May 2009

Product Selection Guide

LINEAR TECHNOLOGY

NOTES

Regarding 1K Quantity Pricing: Price shown is unit price (lowest cost package version) when puchased in quantities of 1000.

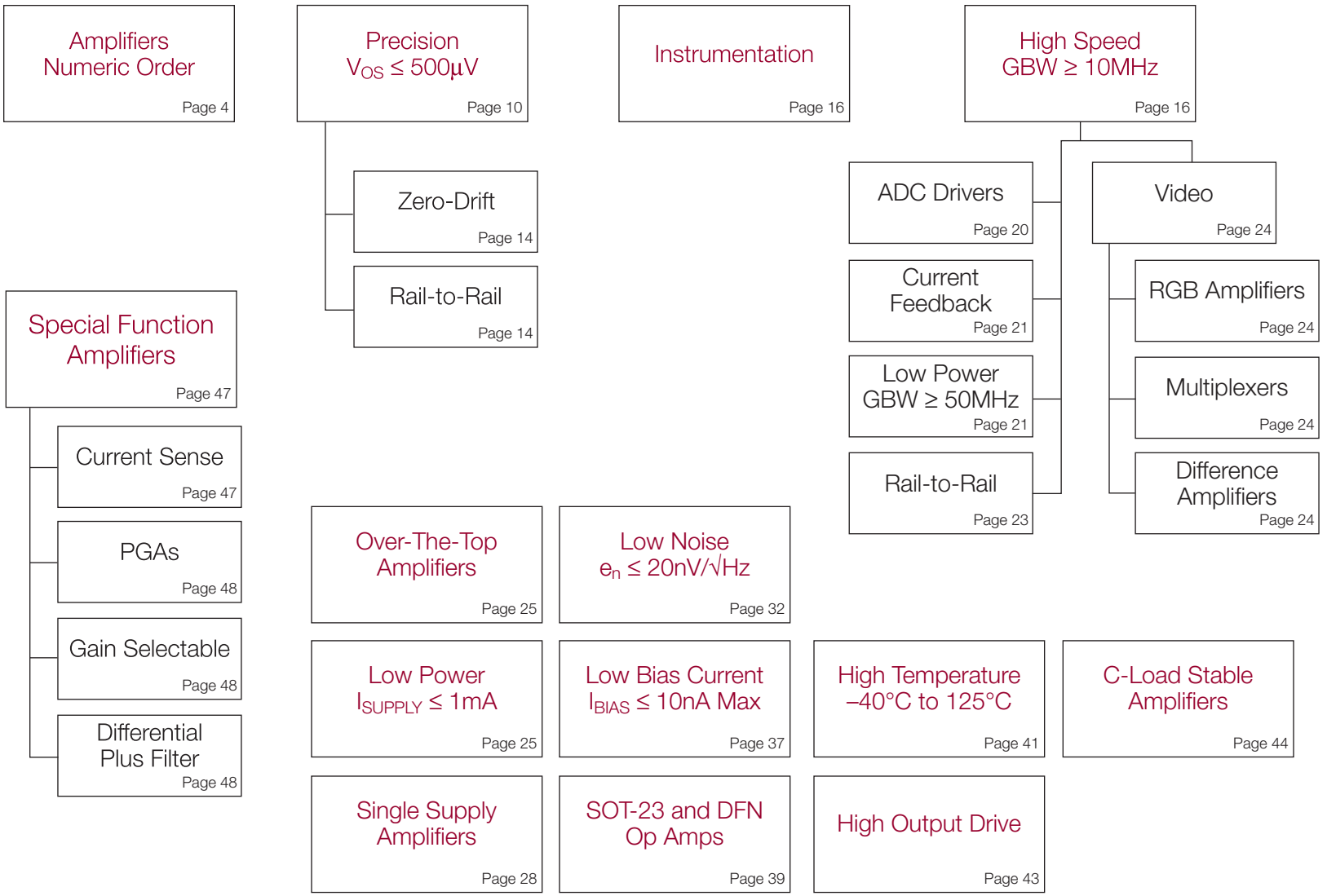
C.F. = Contact Factory for pricing.

LINEAR TECHNOLOGY

Linear Technology
High Performance Analog ICs

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Amplifiers



MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

References, Filters, Comparators, Oscillators, RMS-to-DC

AMPLIFIERS NUMERIC ORDER

† Part Number	Amplifiers Per Package	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Price 1K Qty
LT1001	1	25	0.6	2	0.8	0.25		800	9.6	0.1	12	2.5	6	44		DIP-8/SO-8	20000	VFB	1	$1.65
LT1002	2	60	0.9	3	0.8	0.25		800	9.6	0.1	12	2.5	6	44		DIP-14	20000	VFB	1	$2.85
LT1006	1	50	1.3	15	0.6	0.4		2500	22	0.07	6.5	0.52	4	44	ss	DIP-8/SO-8	10	VFB	1	$1.55
LT1007	1	25	0.6	35	8	2.5		20000	2.5	0.04	18.3	4	4	44		DIP-8/SO-8	100	VFB	1	$1.90
LT1008	1	120	1.5	0.1	1	0.2		2000	14	0.02	1.3	0.6	4	40		DIP-8/SO-8	600	VFB	1	$2.95
LT1010	1	150000		250000	30	200		1000	20		150	9	4.5	44		DIP-8/T-5/DFN-10	330000	BUF	1	$2.40
LT1012	1	25	0.6	0.1	1	0.2		2000	14	0.02	1.3	0.5	2.4	40		DIP-8/SO-8	1000	VFB	1	$1.60
LT1013	2	150	2	20	0.8	0.4		8000	22	0.07	6.5	0.5	4	44	ss	SO-8/DIP-8	100	VFB	1	$1.90
LT1014	4	150	2	20	0.8	0.4		8000	22	0.07	6.5	0.5	4	44	ss	DIP-14/SOW-16	100	VFB	1	$3.45
LT1022	1	250	5	0.05	8.5	26	900	400	14	0.0018	6	7	8	40		DIP-8	100	JFET	1	$2.80
LT1024	2	50	1.5	0.12	1	0.2		2000	14	0.02	10 Typ	0.6	4	40		DIP-14	1000	VFB	1	$4.75
LT1028	1	40	0.8	90	75	15		30000	0.85	1	18.3	9.5	8	44		DIP-8/SO-8/SOW-16	300	VFB	2	$4.75
LT1037	1	25	0.6	35	60	15		20000	2.5	0.4	18.3	4.3	8	44		DIP-8/SO-8	100	VFB	5	$1.90
LT1055	1	700	12	0.05	4.5	12	600	400	15	0.0018	30 Typ	4	8	40		DIP-8/SO-8	100	JFET	1	$1.90
LT1056	1	800	12	0.05	5.5	14	400	400	15	0.0018	30 Typ	7	8	40		DIP-8/SO-8	100	JFET	1	$1.90
LT1057	2	450	10	0.05	5	14	600	350	13	0.0015	20 Typ	2.5	8	40		DIP-8/SO-8/SOW-16	8000	JFET	1	$2.45
LT1058	4	600	15	0.05	5	14	600	350	13	0.0015	20 Typ	2.5	8	40		DIP-14/SOW-16	8000	JFET	1	$4.20
LT1077	1	40	1.6	9	0.23	0.08		1000	27	0.065	5.5	0.06	2.2	44	ss	DIP-8/SO-8	1500	VFB	1	$1.60
LT1078	2	70	1.8	8	0.2	0.07		1000	28	0.06	5.5	0.05	2.2	44	ss	DIP-8/SO-8	1800	VFB	1	$2.70
LT1079	4	100	1.8	8	0.2	0.07		1000	28	0.06	5.5	0.05	2.2	44	ss	DIP-14/SOW-16	1800	VFB	1	$3.40
LT1097	1	50	1.2	0.25	0.7	0.2		2500	14	0.008	5.75	0.56	2	40		DIP-8/SO-8	10000	VFB	1	$1.75
LT1101	1	160	2	8	0.37	0.1			43	0.06	5.5	0.13	1.8	44		DIP-8/SOW-16	30000	IA	10	$4.75
LT1102	1	600	8	0.04	3.5	30	1800		19	1.5	6	5	18	40		DIP-8	50000	IA	10	$4.75
LT1112	2	60	0.5	0.25	0.75	0.3		5000	14	0.0008	5.5	0.4	2	40		DIP-8/SO-8	All	VFB	1	$2.35
LT1113	2	1500	1.5	0.45	5.6	3.9		4800	4.5	0.01	12	6.25	9	40		DIP-8/SO-8	10000	JFET	1	$3.15
LT1114	4	60	1.1	0.25	0.75	0.3		5000	14	0.008	5.5	0.4	2	40		DIP-14/SO-16	All	VFB	1	$4.40
LT1115	1	200	8.5 Typ	380	70	15		20000	0.9	1.2	18.3	11.5	8	44		DIP-8/SOW-16	4000	VFB	1	$2.90
LT1122	1	600	18	0.075	14	80	340	500	14	0.002	19.1	10	20	40		DIP-8/SO-8	500	JFET	1	$2.45
LT1124	2	70	1	20	12.5	4.5		17000	2.7	0.3	6.25	2.75	8	44		DIP-8/SO-8	15	VFB	1	$3.50
LT1125	4	90	1	20	12.5	4.5		17000	2.7	0.3	6.25	2.75	8	44		DIP-14/SOW-16	15	VFB	1	$5.70
LT1126	2	70	1	20	65	11		17000	2.7	0.3	6.25	3.1	8	44		SO-8/DIP-8	15	VFB	10	$3.50
LT1127	4	90	1	20	65	11		17000	2.7	0.3	6.25	3.1	8	44		DIP-14/SOW-16	15	VFB	10	$5.70
LT1128	1	40	0.8	90	20	6		30000	0.85	1	18.3	9.5	8	44		DIP-8/SO-8	500	VFB	1	$4.75
LT1167	1	40	0.3	0.35	1	1.2	14000		7.5	0.124	20	1.3	4.6	40		DIP-8/SO-8	1000	IA	1	$3.20
LT1168	1	40	0.3	0.25	0.4	0.5	30000		10	0.074	20	0.53	4.6	40		DIP-8/SO-8	1000	IA	1	$3.70
LT1169	2	2000	50	0.02	5.3	4.2		4500	6	0.001	12	6.5	9	40		DIP-8/SO-8	1000	VFB	1	$3.85
LT1178	2	70	3	5	0.085	0.04		2500	49	0.00001	5.5	0.017	2	44	ss	DIP-8/SO-8/SOW-16	2500	VFB	1	$2.95
LT1179	4	100	0.3	5	0.085	0.04		2500	49	0.00001	5.5	0.017	2	44	ss	DIP-14/SOW-16	2500	VFB	1	$3.70
LT1187	1	10000	13 Typ	2000	50	165	100	5.5	65	1.5	21.3	16	4	18		DIP-8/SO-8	10	VIDEO	2	$2.90
LT1189	1	3000	13 Typ	2000	180	220	1000	14	30	1.25	21.3	16	4	18		DIP-8/SO-8	10	VIDEO	10	$2.90
LT1190	1	10000	16 Typ	2500	50	450	140	22	50	4	50	38	4	18		DIP-8/SO-8	10	VFB	1	$1.70
LT1191	1	5000	8 Typ	2500	90	450	110	45	25	4	50	38	4	18		DIP-8/SO-8	30	VFB	1	$1.70
LT1192	1	2500	2 Typ	2500	350	450	90	180	9	4	50	38	4	18		DIP-8/SO-8	50	VFB	5	$1.70
LT1193	1	12000	20 Typ	3500	80	500	180	17	50	4	64	40	4	18		DIP-8/SO-8	30	VIDEO	2	$2.90
LT1194	1	6000	6 Typ	3500	350	500	200		15	4	64	40	4	18		DIP-8/SO-8	50	VIDEO	10	$2.90
LT1195	1	8000	12 Typ	2000	50	165	220	11	70	2	20	16	4	18		DIP-8/SO-8	10	VFB	1	$1.70
LT1203	1	30000	10 Typ	5000	150	300	85	1			4.5	14	9	36		DIP-8/SO-8	100	VIDEO	1	$1.50
LT1204	1	14000	19 Typ		95	1000	70		7	1.5	35	24	9	36		DIP-16/SOW-16	4000	VIDEO	1	$4.80
LT1205	2	30000	10 Typ	5000	150	300	85	1			4.5	14	9	36		SO-16	100	VIDEO	1	$2.60
LT1206	1	10000	20 Typ		66	900			3.6	2	250	30	10	36		DDPAK-7/DIP-8/SO-8/TO-220	10000	CFA	1	$3.40
LT1207	2	10000	20 Typ		66	900			3.6	2	250	30	10	36		SO-16	10000	CFA	1	$6.90
LT1208	2	3000	7 Typ	8000	45	400	90	7	22	1.1	24	9	8	36		DIP-8/SO-8	All	VFB	1	$4.25
LT1209	4	3000	7 Typ	8000	45	400	90	7	22	1.1	24	9	8	36		DIP-14/SO-16	All	VFB	1	$6.65

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Part Number	Amplifiers Per Package	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Price 1K Qty
LT1210	1	15000	35 Typ		66	900			3	2	1100	50	8	36		DDPAK-7/SO-16/TO-220	10000	CFA	1	$6.40
LT1211	2	150	1.5	100	13	7	900	560	12	0.2	20	1.8	2.5	36	ss	DIP-8/SO-8	8000	VFB	1	$2.85
LT1212	4	275	3	125	13	7	900	560	12	0.2	20	1.8	2.5	36	ss	DIP-14/SO-16	8000	VFB	1	$5.10
LT1213	2	150	1.5	160	28	8.5	500	850	10	0.2	30	3.8	2.5	36	ss	DIP-8/SO-8	1000	VFB	1	$2.85
LT1214	4	275	3	200	28	8.5	500	250	10	0.2	30	3.8	2.5	36	ss	DIP-14/SO-16	1000	VFB	1	$5.10
LT1215	2	300	2.5	500	23	30	250	150	12	0.5	30	6.6	2.5	36	ss	DIP-8/SO-8	1000	VFB	1	$2.85
LT1216	4	450	5	600	23	30	250	600	12	0.5	30	6.6	2.5	36	ss	DIP-14/SO-16	1000	VFB	1	$5.10
LT1217	1	3000			10	500	280	177	6.5	0.7	50	2	10	36		DIP-8/SO-8	5000	CFA	1	$3.20
LT1218	1	90	3	70	0.3	0.1		1000	33	0.09	5	0.42	2	36	yes	SO-8/DIP-8	1000	VFB	1	$4.75
LT1218L	1	90	3	70	0.3	0.1		1000	33	0.09	5	0.42	2	16	yes	SO-8/DIP-8	1000	VFB	1	$2.90
LT1219	1	90	3	70	0.15	0.05		1000	33	0.09	5	0.42	2	36	yes	SO-8/DIP-8	100000	VFB	1	$4.75
LT1219L	1	90	3	70	0.15	0.05		1000	33	0.09	5	0.42	2	16	yes	SO-8/DIP-8	100000	VFB	1	$2.90
LT1220	1	1000	8 Typ	300	45	250	75		17	2	24	10.5	5	36		SO-8/DIP-8	100000	VFB	1	$3.40
LT1221	1	1000	8 Typ	300	150	250	90	100	6	2	24	10.5	5	36		SO-8/DIP-8	1000	VFB	4	$3.30
LT1222	1	300	8 Typ	300	500	200	75	200	3	2	24	10.5	5	36		SO-8/DIP-8	1000	VFB	10	$3.40
LT1223	1	3000			100	1000	75	5000	33	2.2	50	10	5	36		SO-8/DIP-8	1800	CFA	1	$2.85
LT1224	1	2000	7 Typ	8000	45	400	90		22	1.5	24	9	5	36		SO-8/DIP-8	1000	VFB	1	$2.85
LT1225	1	1000	7 Typ	8000	150	400	90	20	7.5	1.5	24	9	5	36		SO-8/DIP-8	1000	VFB	5	$2.85
LT1226	1	1000	7 Typ	8000	1000	400	100	150	2.6	1.5	24	9	5	36		SO-8/DIP-8	1000	VFB	25	$2.85
LT1227	1	10000	10 Typ		140	1100	50		3.2	1.7	30	15	4	36		DIP-8/SO-8	2000	CFA	1	$2.40
LT1228	1	5000	9 Typ	1000	100	500	45		20	1.4	30	15	4	36		DIP-8/SO-8	2000	CFA	1	$3.75
LT1229	2	10000	6 Typ		100	700	45		3.2	1.4	30	9.5	4	36		DIP-8/SO-8	2000	CFA	1	$3.75
LT1230	4	10000	6 Typ		100	700	45		3.2	1.4	30	9.5	4	36		DIP-14/SO-14	2000	CFA	1	$7.00
LT1251	1	5000	13.5 Typ	30000	40	300	65		2.7	1.5	30	17	5	36		DIP-14/SO-14	100	CFA	1	$5.85
LT1252	1	15000			250	250		1.5	3	1.5	30	18	4	28		DIP-8/SO-8	100	CFA	1	$1.70
LT1253	2	15000			250	250		1.5	3	1.5	30	11	4	28		DIP-8/SO-8	100	CFA	1	$2.45
LT1254	4	15000			250	250		1.5	3	1.5	30	11	4	28		SO-14/DIP-14	100	CFA	1	$4.40
LT1256	1	5000	13.5 Typ		40	300	65		2.7	1.5	30	17	5	36		DIP-14/SO-14	100	CFA	1	$5.85
LT1259	2	12000	5 Typ		130	1600	75	3.98	3.6	1.3	30	7.5	4	36		DIP-14/SO-14	1000	CFA	1	$2.45
LT1260	3	12000	5 Typ		130	1600	75	3.98	3.6	1.3	30	7.5	4	36		DIP-16/SO-16	1000	CFA	1	$2.60
LT1351	1	600	8	50	3	200	700	80	14	0.5	30	0.33	5	36		SO-8/MS-8/DIP-8	All	VFB	1	$2.45
LT1352	2	600	8	50	3	200	700	80	14	0.5	30	0.33	5	36		SO-8	All	VFB	1	$3.80
LT1353	4	600	8	50	3	200	700	80	14	0.5	30	0.33	5	36		SO-14	All	VFB	1	$6.70
LT1354	1	800	8	300	12	400	230	36	10	0.6	30	1.25	5	36		SO-8/DIP-8	All	VFB	1	$2.30
LT1355	2	800	8	300	12	400	230	36	10	0.6	25	1.25	5	36		SO-8/DIP-8	All	VFB	1	$3.80
LT1356	4	800	8	300	12	400	230	36	10	0.6	25	1.25	5	36		SO-16/DIP-14	All	VFB	1	$6.45
LT1357	1	600	8	500	25	600	115	65	8	0.8	24	2.5	5	36		SO-8/DIP-8	All	VFB	1	$2.45
LT1358	2	600	8	500	25	600	115	65	8	0.8	24	2.5	5	36		SO-8/DIP-8	All	VFB	1	$3.90
LT1359	4	600	8	500	25	600	115	65	8	0.8	24	2.5	5	36		SO-16/SO-14/DIP-14	All	VFB	1	$6.50
LT1360	1	1000	12	1000	50	800	60	9	9	0.9	26	4.8	3	36		SO-8/DIP-8	All	VFB	1	$2.20
LT1361	2	1000	12	1000	50	800	60	9	9	0.9	26	4.8	5	36		SO-8/DIP-8	All	VFB	1	$3.40
LT1362	4	1000	12	1000	50	800	60	9	9	0.9	26	4.8	5	36		SO-16/DIP-14	All	VFB	1	$6.00
LT1363	1	1500	13	2000	70	1000	50	9	9	1	50	7.5	3	36		SO-8/DIP-8	All	VFB	1	$2.40
LT1364	2	1500	13	1000	70	1000	60	9	9	1	50	7.2	3	36		SO-8/DIP-8	All	VFB	1	$3.70
LT1365	4	1500	13	2000	70	1000	50	9	9	1	50	7.2	3	36		DIP-14/SO-16	All	VFB	1	$6.45
LT1366	2	475	6	35	0.4	0.13	30000	2000	29	0.07	30	0.52	2	36	yes	DIP-8/SO-8	1000	VFB	1	$3.50
LT1367	4	800	6	35	0.4	0.13	30000	2000	29	0.07	30	0.52	2	36	yes	SO-14	1000	VFB	1	$6.10
LT1368	2	475	6	35	0.16	0.065		2000	29	0.07	30	0.52	2	36	yes	DIP-8/SO-8	100000	VFB	1	$3.45
LT1369	4	800	6	35	0.16	0.065		2000	29	0.07	30	0.52	2	36	yes	SO-14	100000	VFB	1	$6.10
LT1395	1	10000	15		400	800	25		4.5	6	80	6.5	3	12.6		SO-8/SOT23-5/SOT23-6	1000	CFA	1	$1.30
LT1396	2	10000	15		400	800	25		4.5	6	80	6.5	3	12.6		DFN-8/MS-8/SO-8	1000	CFA	1	$1.95
LT1397	4	10000	15		400	800	25		4.5	6	80	6.5	3	12.6		DFN-14/SO-14/SSOPN-16	1000	CFA	1	$2.75

† Primary Sort Column

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AMPLIFIERS NUMERIC ORDER

† Part Number	Amplifiers Per Package	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Price 1K Qty
LT1398	2	10000	15		300	800	25		4.5	6	80	6.5	3	12.6		SO-16	1000	CFA	1	$2.25
LT1399	3	10000	15		300	800	25		4.5	6	80	6.5	3	12.6		SSOPN-16/SO-16	1000	CFA	1	$2.45
LT1399HV	3	10000	15		300	800	25		4.5	6	80	7	3	15.5		SO-16	1000	CFA	1	$3.05
LT1413	2	150	2	15	0.95	0.3		1400	23	0.02	2	0.45	3	22	ss	DIP-8/SO-8	100	VFB	1	$2.00
LT1457	2	450	10	0.05	1.7	4		350	13	0.0015	6	3	9	40		DIP-8/SO-8	10000	JFET	1	$2.35
LT1462	2	800	20	0.002	0.175	0.13		600	76	0.0005	13	0.045	10	40		DIP-8/SO-8	1000	JFET	1	$2.50
LT1463	4	800	20	0.002	0.125	0.13		600	76	0.0005	13	0.045	10	40		DIP-14/SO-14	1000	JFET	1	$4.30
LT1464	2	800	20	0.002	1	0.9		1000	24	0.0004	6.65	0.2	10	40		DIP-8/SO-8	1000	JFET	1	$2.50
LT1465	4	800	20	0.002	1	0.9		900	24	0.0004	6.65	0.2	10	40		DIP-14/SO-14	1000	JFET	1	$4.30
LT1466L	2	390	7	14	0.12	0.04		1500	45	0.05	10	0.075	2	16	yes	DIP-8/SO-8	300	VFB	1	$4.15
LT1467L	4	390	7	14	0.12	0.04		1500	45	0.05	10	0.075	2	16	yes	SO-16	300	VFB	1	$7.20
LT1468	1	75	2	40	90	22	760	9000	5	0.6	15	5	9	36		DFN-8/DIP-8/SO-8	300	VFB	1	$2.95
LT1468-2	**1**	**75**	**2**	**40**	**200**	**30**	**760**	**9000**	**5**	**0.6**	**15**	**5**	**9**	**36**		**DFN-8/SO-8**	**300**	**VFB**	**2**	**$2.95**
LT1469	2	125	3	40	90	22	760	2000	5	0.6	15	5.2	9	36		DFN-12/DIP-8/SO-8	300	VFB	1	$4.95
LT1469-2	**2**	**125**	**3**	**40**	**200**	**30**	**760**	**2000**	**5**	**0.6**	**15**	**5.2**	**9**	**36**		**DFN-12/SO-8**	**300**	**VFB**	**2**	**$4.95**
LT1490A	2	500	4	8	0.18	0.06	35000	1500	50	0.015	15	0.055	2	44	yes	DFN-8/DIP-8/MS-8/SO-8	300	VFB	1	$1.75
LT1491A	4	1000	4	8	0.18	0.06	35000	1500	50	0.015	15	0.055	2	44	yes	DIP-14/SO-14/DFN-16	300	VFB	1	$3.00
LT1492	2	180	3	100	4.5	1.8	2600	350	16.5	0.14	20	0.55	2.1	36	ss	SO-8/DIP-8	150	VFB	1	$3.45
LT1493	4	130	3	100	4.5	1.8	2600	350	16.5	0.14	20	0.55	2.1	36	ss	SO-16	150	VFB	1	$6.40
LT1494	1	375	2	1	0.0027	0.001		500	185	0.01	0.7	0.0015	2.1	36	yes	DIP-8/MS-8/SO-8	8000	VFB	1	$1.65
LT1495	2	375	2	1	0.0027	0.001		500	185	0.01	0.7	0.0015	2.1	36	yes	DIP-8/SO-8	1000	VFB	1	$2.45
LT1496	4	375	2	1	0.0027	0.001		500	185	0.01	0.7	0.0015	2.1	36	yes	DIP-14/SO-14	1000	VFB	1	$3.25
LT1497	2	10000	10		59	900	50	10	3	2	125	7	4	36		SO-8/SO-16	2000	CFA	1	$3.35
LT1498	2	475	2.5	650	10.5	4.5		3800	12	0.3	12.5	2.2	2.2	36	yes	DIP-8/SO-8	30000	VFB	1	$2.96
LT1499	4	475	2.5	650	10.5	4.5		3800	12	0.3	12.5	2.2	2.2	36	yes	SO-14	30000	VFB	1	$5.60
LT1630	2	525	5.5	1000	30	9.2	520	3500	6	0.9	20	4.4	2.6	36	yes	DIP-8/SO-8	300	VFB	1	$2.96
LT1631	4	525	5.5	1000	30	9.2	520	3500	6	0.9	20	4.4	2.6	36	yes	SO-14	300	VFB	1	$5.60
LT1632	2	1350	15	2200	45	27	400	2000	12	1.6	20	5.2	2.6	36	yes	DIP-8/SO-8	10	VFB	1	$3.05
LT1633	4	1350	15	2200	45	27	400	2000	12	1.6	20	5.2	2.6	36	yes	SO-14	10	VFB	1	$5.70
LT1635	1	1300	7	4.5	0.175	0.045		450	50	0.05	20	0.2	1.1	14	out	DIP-8/SO-8	1000	VFB	1	$1.75
LT1636	1	225	5	8	0.2	0.07	40000	2000	52	0.035	12	0.055	2.6	44	yes	DFN-8/DIP-8/MS-8/SO-8	10000	VFB	1	$1.45
LT1637	1	350	3	50	1	0.35	9000	800	27	0.08	15	0.25	1.8	44	yes	DFN-8/DIP-8/MS-8/SO-8	2000	VFB	1	$1.45
LT1638	2	600	6	50	1.2	0.38	10000	1500	20	0.3	15	0.23	2.2	44	yes	DFN-8/DIP-8/MS-8/SO-8	6000	VFB	1	$1.95
LT1639	4	600	6	50	1.075	0.38	10000	1500	20	0.3	15	0.23	2.2	44	yes	DIP-14/SO-14	6000	VFB	1	$3.30
LT1672	1	375	2	1	0.012	0.005		500	185	0.01	0.7	0.002	2.1	36	yes	DIP-8/MS-8/SO-8	10000	VFB	5	$1.65
LT1673	2	375	2	1	0.012	0.005		500	185	0.01	0.7	0.002	2.1	36	yes	DIP-8/SO-8	10000	VFB	5	$2.45
LT1674	4	375	2	1	0.012	0.005		500	185	0.01	0.7	0.002	2.1	36	yes	DIP-14/SO-14	10000	VFB	5	$3.25
LT1675	3	40000		30000	250	1100					50	14	5.2	12.6		SSOPN-16	5	VIDEO	2	$1.95
LT1675-1	1	40000		30000	250	1100					50	14	5.2	12.6		MS-8/SO-8	5	VIDEO	2	$1.95
LT1677	1	60	1.5	20	7.2	2.5	5000	19000	3.2	0.3	25	3.5	2.5	44	yes	DIP-8/SO-8	1000	VFB	1	$2.15
LT1678	2	100	3	20	20	6		3000	3.9	0.3	15	3.4	3	36	yes	SO-8	500	VFB	1	$2.50
LT1679	4	100	3	20	20	6		3000	3.9	0.3	15	3.4	3	36	yes	SO-14	500	VFB	1	$3.85
LT1722	1	400	7	300	200	70	91	17	3.8	1.2	35	4.5	4.6	12.6		SO-8/SOT23-5	100	VFB	1	$0.88
LT1723	2	400	7	300	200	70	91	17	3.8	1.2	35	4.5	4.6	12.6		MS-8/SO-8	100	VFB	1	$1.15
LT1724	4	400	7	300	200	70	91	17	3.8	1.2	35	4.5	4.6	12.6		SO-14	100	VFB	1	$2.19
LT1739	2	5000	10 Typ	4000	200	600		6.3	8	0.8	500	13.5	8	27		DFN-12/TSSOP-20	30	VFB	10	$3.55
LT1782	1	800	5	15	0.2	0.07	45000	1500	50	0.05	20	0.055	2.2	18	yes	SOT23-5/SOT23-6	10000	VFB	1	$1.10
LT1783	1	800	5	80	1.25	0.42	12000	1500	20	0.14	20	0.3	2.2	18	yes	SOT23-5/SOT23-6	3000	VFB	1	$1.10
LT1784	1	3500	15	500	2.5	2.1	3700	1000	25	0.3	20	0.75	2	18	yes	SOT23-5/SOT23-6	1000	VFB	1	$1.00
LT1787	1	75	2								0.05 Typ	0.12	2.5	36		SO-8/MS-8		CSA		$2.05
LT1787HV	1	75	2								0.05 Typ	0.12	2.5	60		SO-8/MS-8		CSA		$2.90
LT1789-1	1	100	0.7	40	0.06	0.026	240000		48	0.062	2.2	0.095	2.2	36	out	SO-8	600	IA	1	$3.20
LT1789-10	1	160	0.7	40	0.025	0.026	190000		52	0.062	2.2	0.095	2.2	36	out	SO-8	2000	IA	10	$3.20
LT1792	1	600	10	0.8	5.6	3.4		4800	4.2	0.01	12	5.2	10	40		DIP-8/SO-8	10000	JFET	1	$2.25

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Part Number	Amplifiers Per Package	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Price 1K Qty
LT1793	1	800	13	0.01	4.2	3.4		4500	6	0.0008	12	5.2	10	40		DIP-8/SO-8	10000	JFET	1	$2.25
LT1794	2	5000	10 Typ	4000	200	600		12.5	8	0.8	500	13.5	8	36		SOW-20/TSSOP-20	30	VFB	10	$4.95
LT1795	2	13000	29 Typ		65	900		2.51	3.6	2	500	34	10	36		SOW-20/TSSOP-20	1000	CFA	1	$4.95
LT1797	1	1500	20	300	10	2.25	1600	1000	20	0.15	25	1.5	2.1	12.6	yes	SOT23-5	10000	VFB	1	$1.00
LT1800	1	350	5	250	80	25	250	85	8.5	1	20	2	2.3	12.6	yes	SO-8/SOT23-5	1000	VFB	1	$1.30
LT1801	2	350	5	250	80	25	250	85	8.5	1	20	2	2.3	12.6	yes	DFN-8/MS-8/SO-8	1000	VFB	1	$1.95
LT1802	4	350	5	250	80	25	250	85	8.5	1	20	2	2.3	12.6	yes	SO-14	1000	VFB	1	$3.50
LT1803	1	2000	35	750	83	100	350	60	21	2.5	20	3	2.3	12.6	yes	SO-8/SOT23-5	1000	VFB	1	$1.30
LT1804	2	2000	35	750	83	100	350	60	21	2.5	20	3	2.3	12.6	yes	DFN-8/SO-8	1000	VFB	1	$1.95
LT1805	4	2000	35	750	85	100	350	60	21	2.5	20	3	2.3	12.6	yes	SO-14	1000	VFB	1	$3.50
LT1806	1	550	5	4000	325	125	60	220	3.5	1.5	35	13	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	1	$2.10
LT1807	2	550	5	4000	325	125	60	220	3.5	1.5	35	13	2.5	12.6	yes	MS-8/SO-8	1000	VFB	1	$3.40
LT1809	1	2500	25	8000	160	300	27	80	16	5	45	17	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	1	$1.75
LT1810	2	2500	25	8000	160	300	27	80	16	5	45	17	2.3	12.6	yes	MS-8/SO-8	1000	VFB	1	$2.65
LT1812	1	1500	15	4000	100	750	30	3	8	1	40	3.6	2.5	12.6		SO-8/SOT23-5/SOT23-6	100	VFB	1	$0.88
LT1813	2	1500	15	4000	100	750	30	3	8	1	40	3.6	2.5	12.6		MS-8/SO-8/DFN-8	100	VFB	1	$0.99
LT1813HV	2	1500	15	4000	100	750	30	3	8	1	40	4	2.5	13.5		SO-8	100	VFB	1	$1.19
LT1814	4	1500	15	4000	100	750	30	3	8	1	40	3.6	2.5	12.5		SO-14/SSOPN-16	100	VFB	1	$1.95
LT1815	1	1500	15	8000	220	1500	15	3	6	1.3	50	7.8	4	12.6		SO-8/SOT23-5/SOT23-6	10	VFB	1	$0.88
LT1816	2	1500	15	8000	220	1500	15	3	6	1.3	50	7.8	2.5	12.6		DFN-8/MS-8/MS-10/SO-8	10	VFB	1	$1.50
LT1817	4	1500	15	8000	220	1500	15	3	6	1.3	50	7	2.5	12.6		SO-14/SSOPN-16	10	VFB	1	$2.05
LT1818	1	1500	15	8000	400	2500	10	2.5	6	1.2	40	10	3.5	12.6		SO-8/SOT23-5	20	VFB	1	$0.95
LT1819	2	1500	15	8000	400	2500	10	2.5	6	1.2	40	10	3.5	12.6		MS-8/SO-8	20	VFB	1	$1.60
LT1880	1	150	1.2	0.9	1.1	0.55	10000	1600	13	0.07	1	1.9	2.4	40	out	SOT23-5	1000	VFB	1	$1.75
LT1881	2	50	0.8	0.2	1	0.35	30000	1600	14	0.03	5	0.9	2.4	40	out	DIP-8/SO-8	1000	VFB	1	$2.75
LT1882	4	80	0.8	0.5	1	0.35	30000	1600	14	0.3	5	0.9	2.4	40	out	SO-14	1000	VFB	1	$4.85
LT1884	2	50	0.8	0.4	2	0.9	10000	1600	9.5	0.05	15	0.9	2.4	40	out	DIP-8/SO-8	500	VFB	1	$2.75
LT1885	4	80	0.8	0.9	2	0.9	10000	1600	9.5	0.05	15	0.9	2.4	40	out	SO-14	500	VFB	1	$4.85
LT1886	2	4000	17	4000	700	200	50	12	6	2	200	8.25	4	13.2		SO-8	1000	VFB	10	$2.80
LT1920	1	125	1	2	0.8	1.2	50000		7.5	0.124	20	1.3	4.6	40		DIP-8/SO-8	1000	IA	1	$3.05
LT1969	2	4000	17	4000	700	200	50	12	6	2	200	8.25	4	13.2		MS-10	1000	VFB	10	$2.95
LT1970	1	600	10	600	3.6	1.6	8000	150	15	3	500	13	5	36		TSSOP-20	10000	VFB	1	$4.95
LT1990	1	5200	22		0.1	0.55	45000		1000		6	0.18	2.4	36	yes	SO-8	3000	SGA	1	$1.35
LT1991	1	50	1	5	0.56	0.12	42000		46		8	0.11	2.4	40	yes	MS-10/DFN-10	100	SGA	1	$1.39
LT1993-10	1	6500	100 Typ		700	1100	4		1.7		40	112	4	5.5		QFN-16	5	DIFF	10	$2.95
LT1993-2	1	6500			800	1100	4		3.5		40	112	4	5.5		QFN-16	5	DIFF	2	$2.95
LT1993-4	1	6500	100 Typ		900	1100	4		2.15		40	112	4	5.5		QFN-16	5	DIFF	4	$2.95
LT1994	1	2000	13.3 Typ	45000	70	65	90	100	3	2.5	45	18.5	2.375	12.6	out	MS-8/DFN-8	25	DIFF	1	$1.65
LT1995	1	5000	26	600 Typ	24	1000	100		14		70	8.5	2.5	36		MS-10/DFN-10	200	SGA	1	$1.89
LT1996	1	50	1	5	0.56	0.12	85000		18		8	0.11	2.7	36	yes	MS-10/DFN-10	100	SGA	1	$1.39
LT2078	2	70	1.8	8	0.2	0.07	10000	1000	28	0.02	5.5	0.05	2.3	44	ss	SO-8	300	VFB	1	$3.50
LT2079	4	110	3	8	0.2	0.07	10000	1000	28	0.02	5.5	0.05	2.3	44	ss	SO-14	300	VFB	1	$5.95
LT2178	2	70	1.8	5	0.06	0.025		700	49	0.01	5.5	0.018	2.2	44	ss	SO-8	200	VFB	1	$3.50
LT2179	4	100	3	5	0.06	0.025		700	49	0.01	5.5	0.018	2.2	44	ss	SO-14	200	VFB	1	$6.30
LT5514	1			20000	850		500				33	148	4.75	5.25	ss	TSSOP-20		DIFF/ PGA	11.2	$5.20
LT5524	1			30000	540		500				17	75	4.75	5.25	ss	TSSOP-20		DIFF/ PGA	2.8	$4.40
LT5554	**1**				**1000**		**5**		**1.4**		**40**	**190**	**4.75**	**5.25**		**QFN-32**		**DIFF/ PGA**	**1.6**	**$4.40**
LT6000	1	750	5	5	0.05	0.015		65	75	0.025	4 Typ	0.016	1.8	18	yes	DFN-6	800	VFB	1	$0.80
LT6001	2	600	5	5	0.05	0.015		65	75	0.025	2	0.016	1.8	18	yes	MS-8/DFN-10	800	VFB	1	$1.25
LT6002	4	750	5	5	0.05	0.015		65	75	0.025	2	0.016	1.8	18	yes	SSOP-16/DFN-16	800	VFB	1	$2.00
LT6003	1	500	5	0.09	0.002	0.0008		500	325	0.012	2	0.001	1.6	16	yes	SOT23-5/DFN-4	900	VFB	1	$0.72
LT6004	2	500	5	0.09	0.002	0.0008		500	325	0.012	2	0.001	1.6	16	yes	DFN-8/MS-8	900	VFB	1	$1.10

† Primary Sort Column

AMPLIFIERS NUMERIC ORDER

† Part Number	Amplifiers Per Package	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Price 1K Qty
LT6005	4	650	5	0.09	0.002	0.0008		500	325	0.012	2	0.001	1.6	16	yes	DFN-16/TSSOP-16	900	VFB	1	$1.75
LT6010	1	35	0.8	0.11	0.33	0.09	45000	2000	14	0.1	1	0.15	2.7	40	out	DFN-8/SO-8	500	VFB	1	$1.10
LT6011	2	60	0.8	0.3	0.33	0.09	45000	2000	14	0.1	1	0.15	2.4	40	out	DFN-8/SO-8/MS-8	500	VFB	1	$1.65
LT6012	4	60	0.8	0.3	0.33	0.09	45000	2000	14	0.1	1	0.15	2.4	40	out	SO-14/SSOPN-16	500	VFB	1	$2.95
LT6013	1	35	0.8	0.25	1.6	0.2	20000	2000	9.5	0.15	8	0.165	2.7	40	out	DFN-8/SO-8	500	VFB	5	$1.10
LT6014	2	60	0.8	0.4	1.6	0.2	20000	2000	9.5	0.15	8	0.165	2.7	40	out	DFN-8/SO-8	500	VFB	5	$1.65
LT6100	1	300	3	10000	0.15	0.05	15000				8	0.13	4.1	48	out	DFN-8/MS-8		CSA		$1.18
LT6105	1	300	0.5 Typ	25000	0.1		5000				1	0.3	2.85	36	in	DFN-6/MS-8		CSA		$0.99
LT6106	1	250	1 Typ	40	0.2						1	0.095	2.7	36		SOT23-5		CSA		$0.82
LT6200	1	1000	24	40000	165	50	140	200	0.95	2.2	60	23	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	1	$2.15
LT6200-10	1	1000	24	40000	1600	450		200	0.95	2.2	60	23	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	10	$1.50
LT6200-5	1	1000	24	40000	800	250		200	0.95	2.2	60	23	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	5	$1.50
LT6201	2	1000	24	40000	165	50	140	200	0.95	2.2	60	23	2.5	12.6	yes	DFN-8/SO-8	1000	VFB	1	$3.65
LT6202	1	500	24	7000	100	25	78	200	1.9	0.75	30	3.5	2.5	12.6	yes	SO-8/SOT23-5	1000	VFB	1	$1.45
LT6203	2	500	24	7000	100	25	78	200	1.9	0.75	30	3.5	2.5	12.6	yes	DFN-8/MS-8/SO-8	1000	VFB	1	$2.45
LT6204	4	500	24	7000	100	25	78	200	1.9	0.75	30	3.5	2.5	12.6	yes	SO-14/SSOPN-16	1000	VFB	1	$4.50
LT6205	1	4500	18	30000	100	600	25	133	9	4	25	5.6	3	12.6	out	SOT23-5	1000	VFB	1	$0.88
LT6206	2	4500	18	30000	100	600	25	133	9	4	25	5.6	3	12.6	out	MS-8	1000	VFB	1	$1.05
LT6207	4	4500	18	30000	100	600	25	133	9	4	25	5.6	3	12.6	out	SSOPN-16	1000	VFB	1	$1.55
LT6210	1	6000			200	700	20		6.5	4.5	75	8.3	3	13.2	out	SOT23-6	10000	CFA	1	$1.20
LT6211	2	6000			200	700	20		6.5	4.5	75	8.3	3	13.2	out	DFN-10/MS-10	10000	CFA	1	$1.60
LT6220	1	350	5	150	60	20	300	100	10	0.8	20	1	2.2	12.6	yes	SO-8/SOT23-5	7000	VFB	1	$1.20
LT6221	2	350	5	150	60	20	300	100	10	0.8	20	1	2.2	12.6	yes	DFN-8/SO-8	7000	VFB	1	$1.85
LT6222	4	350	5	150	60	20	300	100	10	0.8	20	1	2.2	12.6	yes	SSOP-16	7000	VFB	1	$2.95
LT6230	1	500	3	10000	215	70	50	260	1.1	1	30	3.75	3	12.6	out	SOT23-6	1000	VFB	1	$1.25
LT6230-10	1	500	3	10000	1450	320		260	1.1	1	30	3.75	3	12.6	out	SOT23-6	2000	VFB	10	$1.50
LT6231	2	350	3	10000	215	70	50	260	1.1	1	30	3.75	3	12.6	out	DFN-8/SO-8	1000	VFB	1	$1.95
LT6232	4	350	3	10000	215	70	50	260	1.1	1	30	3.75	3	12.6	out	SSOP-16	1000	VFB	1	$3.30
LT6233	1	500	3	3000	60	17	170	180	1.9	0.43	40	1.25	3	12.6	out	SOT23-6	1000	VFB	1	$1.45
LT6233-10	1	500	3	3000	375	115		180	1.9	0.43	40	1.25	3	12.6	out	SOT23-6	1000	VFB	10	$1.90
LT6234	2	350	3	3000	60	17	170	180	1.9	0.43	40	1.25	3	12.6	out	DFN-8/SO-8	1000	VFB	1	$2.45
LT6235	4	350	3	3000	60	17	170	180	1.9	0.43	40	1.25	3	12.6	out	SSOP-16	1000	VFB	1	$4.15
LT6300	2	5000	4 Typ	4000	200	600		76	8	0.8	500	13.5	8	27		SSOP-16	30	VFB	10	$2.85
LT6301	4	5000	4 Typ	4000	200	600		76	8	0.8	500	13.5	8	27		TSSOP-28	30	VFB	10	$6.20
LT6402-12	1	6500	30 Typ		300	400	10		2.7		30	37	4	5.5	ss	QFN-16	5	DIFF	4	$2.39
LT6402-20	1	6500	30 Typ		300	1000	8		1.85		30	37	4	5.5	ss	QFN-16	5	DIFF	10	$2.39
LT6402-6	1	6500	30 Typ		300	400	10		3.8		30	37	4	5.5	ss	QFN-16	5	DIFF	2	$2.39
LT6411	2	10000			650	3300	6		8		50	22	4.5	12.6		QFN-16	12	VFB/DIFF	1	$2.39
LT6550	3	35000		65000	110	340	35		12	8	45	11.5	3	12.6	out	MS-10	150	VIDEO	2	$1.75
LT6551	4	35000		65000	110	340	35		12	8	45	11.5	3	12.6	out	MS-10	150	VIDEO	2	$1.95
LT6552	1	20000	12.5 Typ	50000	75	600	35		55	0.7	35	13.5	3	12.6	out	DFN-8/SO-8	1000	VFB	2	$1.10
LT6553	3	10000		50000	650	2500	6		9	4	50	11	4	13.2		SSOP-16	10	VIDEO	2	$2.50
LT6554	3	35000		50000	650	2500	6		20	3.5	50	10	4	13.2		SSOP-16	12	VIDEO	1	$2.50
LT6555	3	16000			650	2200	6.5		9	3.5	50	12	4.5	12.6		SSOP-24/QFN-24	10	VIDEO	2	$2.75
LT6556	3	67000			750	2100	6.5		11	3.5	50	13	4.5	12.6		SSOP-24/QFN-24	10	VIDEO	1	$2.75
LT6557	3	40000		70000	500	2200	7		12	20	70	25		7.5		SSOP-16/DFN-16		VIDEO	2	$2.50
LT6558	3	45000		70000	550	2200	7		20	15	60	24	3	7.5		SSOP-16/DFN-16		VIDEO	1	$2.50
LT6559	3	10000	3.9 Typ		300	500	25		4.5	6	80 Typ	6.1	4	12		QFN-16	1000	VIDEO	1	$0.95
LT6600-10	1	13000	35 Typ	85000	10				14			39	2.7	11	ss	SO-8/DFN-12	50	DIFF	1	$2.95
LT6600-15	1	15000	42 Typ	90000	15				19			46	2.7	11	ss	SO-8	50	DIFF	1	$2.95
LT6600-2.5	1	13000	26 Typ	35000	2.5				23			30	2.7	11	ss	SO-8/DFN-12	50	DIFF	1	$2.95
LT6600-20	1	15000	42 Typ	95000	20				15			46	2.7	11	ss	SO-8	50	DIFF	1	$2.95
LT6600-5	1	25000	28 Typ	70000	5				16			31	2.7	11	ss	SO-8	50	DIFF	1	$2.95
LTC1047	2	10	0.05	0.03	0.2	0.2		31622		0.0015	0.5	0.275	4.75	16	out	DIP-8/SOW-16	50	ZD	1	$4.85

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Part Number	Amplifiers Per Package	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Price 1K Qty
LTC1049	1	10	0.1	0.05	0.8	0.8		31622	80	0.002	0.5	0.3	4.75	18	out	DIP-8/SO-8	50	ZD	1	$2.15
LTC1050	1	5	0.05	0.03	2.5	4		100000	90	0.0018	6 Typ	1.5	4.75	18	out	DIP-8/DIP-14/SO-8	100	ZD	1	$2.15
LTC1051	2	5	0.05	0.065	2.5	4		100000	70	0.0022	0.5	2	4.75	16.5	out	DIP-8/SOW-16	100	ZD	1	$4.05
LTC1052	1	5	0.05	0.03	1.2	4		100000	30	0.0006	0.5	2	4.75	18	out	DIP-8/DIP-14/SOW-16	100	ZD	1	$4.10
LTC1053	4	5	0.05	0.065	2.5	4		100000	70	0.0022	0.5	2	4.75	16.5	out	DIP-14/SOW-18	100	ZD	1	$7.50
LTC1100	1	10	0.1	0.05	1.8	3			38			2.8	4	18	out	DIP-8/SOW-16	10	IA	10	$6.15
LTC1150	1	10	0.05	0.1	2.5	3		1000000		0.0018	1.35	1.5	4.75	32	ss	DIP-8/SO-8	100	ZD	1	$3.70
LTC1151	2	5	0.05	0.1	2	2.5		10000		0.0022	1.35	1.5	4.75	36	ss	DIP-8/SOW-16	100	ZD	1	$5.80
LTC1152	1	10	0.1	0.1	0.7	0.5		3162	130	0.6	35 Typ	3	3	14	yes	DIP-8/SO-8	All	ZD	1	$3.15
LTC1250	1	10	0.05	0.2	1.5	10		316227	15	0.004	4	4	4.75	18		DIP-8/SO-8	50	ZD	1	$2.85
LTC1541	1	1000			0.012							0.01	2.5	12.6	ss	MS-8/SO-8/DFN-8		REF/VFB	1	$1.50
LTC1542	1	1000			0.012	8		1000			1.3	0.01	2.5	12.6	out	MS-8/SO-8/DFN-8	1000	REF/VFB	1	$1.20
LTC1564	1	13000			0.15							17	2.7	10.5	yes	SSOP-16		PGA		$8.95
LTC1992	1	2500	0.65 Typ	0.25	4	0.75		10	18	1	10	1	2.4	12	out	MS-8	10000	DIFF	1	$1.65
LTC1992-1	1	2500	0.65 Typ	0.25	4	0.75			45		10	1	2.7	12	out	MS-8	10000	DIFF	1	$3.95
LTC1992-10	1	2500	0.65 Typ	0.25	4	0.75			45		10	1	2.7	12	out	MS-8	10000	DIFF	1	$3.95
LTC1992-2	1	2500	0.65 Typ	0.25	4	0.75			45		10	1	2.7	12	out	MS-8	10000	DIFF	1	$3.95
LTC1992-5	1	2500	0.65 Typ	0.25	4	0.75			45		10	1	2.7	12	out	MS-8	10000	DIFF	1	$3.95
LTC2050	1	3	0.03	0.075	3	2	1000	10000		0.003	2.4	1.2	2.7	7	out	SO-8/SOT23-5/SOT23-6	50	ZD	1	$1.15
LTC2050HV	1	3	0.03	0.05	3	2	1000	10000		0.003	2.4	1.5	2.7	12	out	SO-8/SOT23-5/SOT23-6	50	ZD	1	$1.45
LTC2051	2	3	0.03	0.075	3	2	2000	10000			10 Typ	1.2	2.7	7	out	DFN-8/MS-8/MS-10/SO-8	100	ZD	1	$2.00
LTC2051HV	2	3	0.03	0.15	3	2	2000	10000			10 Typ	1.5	2.7	12	out	DFN-8/MS-8/MS-10/SO-8	100	ZD	1	$2.50
LTC2052	4	3	0.03	0.075	3	2	2000	10000			10 Typ	1.2	2.7	7	out	SO-14/SSOP-16	100	ZD	1	$3.65
LTC2052HV	4	3	0.03	0.15	3	2	2000	10000			10 Typ	1.5	2.7	12	out	SO-14/SSOP-16	100	ZD	1	$4.55
LTC2053	1	10	0.05	10	0.2	0.2			50		2.4	1.3	2.7	11	yes	DFN-8/MS-8	30	ZD/IA	1	$3.20
LTC2053-SYNC	1	10	0.05	10	0.2	0.2			50		2.4	1.3	2.7	11	yes	MS-8	30	ZD/IA	1	$3.40
LTC2054	1	3	0.03	0.15	0.5	0.5	5000	10000			1	0.18	2.7	7	out	SOT23-5	50	ZD	1	$1.00
LTC2054HV	1	5	0.03	0.15	0.5	0.5	5000	10000			1	0.21	2.7	12	out	SOT23-5	50	ZD	1	$1.25
LTC2055	2	3	0.03	0.15	0.5	0.5	5000	10000			1	0.15	2.7	7	out	DFN-8/MS-8	50	ZD	1	$1.60
LTC2055HV	2	5	0.03	0.15	0.5	0.5	5000	10000			1	0.18	2.7	12	out	DFN-8/MS-8	50	ZD	1	$2.00
LTC6078	2	25	0.7	0.001	0.75	0.05	24000	3162	18		5	0.07	2.7	6	yes	MS-8/DFN-10	200	VFB	1	$1.49
LTC6079	4	25	1.4	0.001	0.75	0.05	24000	3162	18		5	0.07	2.7	6	yes	DFN-16/SSOP-16	200	VFB	1	$2.53
LTC6081	2	70	0.8	0.001	3.6	1	6000	1000	13	0.0005	5	0.43	2.7	5.5	yes	DFN-10/MS-8	200	VFB	1	$1.74
LTC6082	4	70	0.8	0.001	3.6	1	6000	1000	13	0.0005	5	0.43	2.7	5.5	yes	DFN-16/SSOP-16	200	VFB	1	$2.97
LTC6084	2	750	5	0.001 Typ	1.5	0.5	6000	5000	31	0.00056	5	0.13	2.5	5.5	yes	DFN-8/MS-8	300	VFB	1	$0.91
LTC6085	4	750	5	0.001 Typ	1.5	0.5	6000	5000	31	0.00056	5	0.13	2.5	5.5	yes	DFN-16/SSOP-16	300	VFB	1	$1.40
LTC6087	2	750	5	0.001 Typ	14	7.2	800	6000	12	0.00056	5	1.3	2.7	5.5	yes	MS-8/DFN-10	100	VFB	1	$0.91
LTC6088	4	750	5	0.001 Typ	14	7.2	800	6000	12	0.00056	5	1.3	2.7	5.5	yes	SSOP-16/DFN-16	100	VFB	1	$1.40
LTC6101	1	300	1 Typ	170	0.02						1	0.45	4	60		SOT-23-5/MS-8		CSA		$1.04
LTC6101HV	1	300	1 Typ	170	0.02						1	0.45	5	100		SOT-23-5/MS-8		CSA		$1.30
LTC6102	1	10	0.05 Typ	3	0.2						1	0.45	4	60	no	DFN-8/MS-8		CSA		$1.72
LTC6102HV	1	10	0.05 Typ	3	0.2						1	0.45	5	100	no	DFN-8/MS-8		CSA		$2.06
LTC6103	2	450	1.5 Typ	170	0.12						1	0.45	4	60		MS-8		CSA		$1.66
LTC6104	1	450	1.5 Typ	170	0.14						1	0.73	4	60		MS-8		CSA		$1.38
LTC6240	1	175	2.5	0.001	18	10		1600	7	0.00056	15	2.4	2.8	6	out	SOT-23/SO-8	200	VFB	1	$0.77
LTC6240HV	1	250	2.5	0.001	18	10		2700	7	0.00056	15	3.3	2.8	11	out	SOT-23/SO-8	200	VFB	1	$1.40
LTC6241	2	125	2.5	0.075	18	10	900	1600	7	0.00056	15	2.2	2.8	6	out	DFN-8/SO-8	200	VFB	1	$1.25
LTC6241HV	2	175	2.5	0.075	18	10	900	1600	7	0.00056	15	2.2	2.8	11	out	DFN-8/SO-8	200	VFB	1	$2.20
LTC6242	4	150	2.5	0.075	18	10	900	1600	7	0.00056	15	2.2	2.8	6	out	DFN-16/SSOP-16	200	VFB	1	$2.25
LTC6242HV	4	200	2.5	0.075	18	10	900	1600	7	0.00056	15	2.2	2.8	11	out	DFN-16/SSOP-16	200	VFB	1	$3.30
LTC6244	2	100	2.5	0.075	50	35	535	2500	8	0.00056	25	7.4	2.8	6	out	DFN-8/MSOP-8	200	VFB	1	$1.65
LTC6244HV	2	100	2.5	0.075	50	35	535	2500	8	0.00056	25	7.4	2.8	10.5	out	DFN-8/MSOP-8	200	VFB	1	$2.35
LTC6400-8	1	5000	2 Typ		2200	3810	1.8 (1%)		3.7		20	95	2.85	3.5		3×3 QFN-16		DIFF	2.5	$3.20
LTC6400-14	1	3000	0.7 Typ		2370	6000	1.7 (1%)		2.5		20	96	2.85	3.5		3×3 QFN-16		DIFF	5	$3.20
LTC6400-20	1	2000	1.2 Typ		1840	4500	0.8 (1%)		2.1		20	105	2.85	3.5		3×3 QFN-16		DIFF	10	$3.20
LTC6400-26	1	2000	1 Typ		1900	6670	2 (1%)		1.5		20	102	2.85	3.5		3×3 QFN-16		DIFF	20	$3.20

† Primary Sort Column

AMPLIFIERS NUMERIC ORDER

† Part Number	Amplifiers Per Package	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Price 1K Qty
LTC6401-8	1	4000	3 Typ		2220	3400	2.3 (1%)		3.2		10	60	2.85	3.5		3×3 QFN-16		DIFF	2.5	$2.95
LTC6401-14	1	3000	1.2 Typ		1950	3600	1.8 (1%)		2.5		10	60	2.85	3.5		3×3 QFN-16		DIFF	5	$2.95
LTC6401-20	1	2000	1.4 Typ		1250	4500	2 (1%)		2.1		10	62	2.85	3.5		3×3 QFN-16		DIFF	10	$2.95
LTC6401-26	1	2500	1 Typ		1600	3300	3.3		1.5		10	60	2.85	3.5		3×3 QFN-16		DIFF	20	$2.95
LTC6403-1	1	1500	1 Typ	25000	200	200	30	32	2.8	1.8	30	11.8	2.7	5.25	out	3×3 QFN-16		DIFF	1	$1.79
LTC6404-1	1	2000	1 Typ		500	450	13	32	1.5	3	40	35.5	2.7	5.25	out	3×3 QFN-16		DIFF	1	$3.44
LTC6404-2	1	2000	1 Typ	60000	900	700	12	32	1.5	3	40	38.5	2.7	5.25	out	3×3 QFN-16		DIFF	2	$3.44
LTC6404-4	1	2000	1 Typ	60000	1700	1200	11	32	1.5	3	40	39	2.7	5.25	out	3×3 QFN-16		DIFF	4	$3.44
LTC6405	1	3500	1 Typ	24000	2700	690	11	32	1.6	2.4	40	23	4.5	5.5	in	3×3 QFN-16		DIFF	1	$3.44
LTC6406	1	3500	1 Typ		3000	630	11	32	1.6	2.5	35	22	2.7	3.5	in	3×3 QFN-16		DIFF	1	$3.44
LTC6410-6	1	2000	–0.3 Typ		1400	1500	3 (1%)				38	130	2.8	5.25		3×3 QFN-16		DIFF	2	$2.89
LTC6412	**1**				**800**				**2.5**		**17**	**120**	**3**	**3.6**		**4×4 QFN-24**		**VGA/DIFF**	**1**	**C.F.**
LTC6416	1	5000		15000	2000	3400	1.8		1.8	6.5	20	51	2.7	3.9		3×2 DFN-10		DIFF	1	$3.50
LTC6420-20	2	2000	1.2 Typ		1800	4500	0.8 (1%)		2.2		20	95	2.85	3.5	out	3×4 QFN-20		DIFF	10	$5.17
LTC6421-20	2	2000	1.4 Typ		1300	4500	2 (1%)		2.2		10	50	2.85	3.5	out	3×4 QFN-20		DIFF	10	$4.77
LTC6800	1	100	0.25	10	0.2	0.2			50		2.4	1.2	2.7	5.5	yes	DFN-8/MS-8	30	IA	1	$1.55
LTC6910-1	1	15000			11	16			8.6		9.5	3	2.7	11	yes	SOT23-8	50	PGA	1	$1.10
LTC6910-2	1	15000			13	16			9.1		9.5	3	2.7	11	yes	SOT23-8	50	PGA	1	$1.10
LTC6910-3	1	15000			11	16			10.6		9.5	3	2.7	11	yes	SOT23-8	50	PGA	1	$1.10
LTC6911-1	2	22000	2.1 Typ		11	16			9.9		35 Typ	3.15	2.7	10.5	yes	MS-10	50	PGA	1	$2.00
LTC6911-2	2	22000	2.1 Typ		11	16			10.9			3.15	2.7	10.5	yes	MS-10	50	PGA	1	$2.00
LTC6912-1	2	22000	1.75 Typ		30	16			15.1		35 Typ	2.75	2.7	10.5	yes	DFN-12/SSOP-16	50	PGA	1	$2.15
LTC6912-2	2	22000	1.75 Typ		30	16			15.1		35 Typ	2.75	2.7	10.5	yes	DFN-12/SSOP-16	50	PGA	1	$2.15
LTC6915	1	10	0.05	10	0.2	0.2			50		2	1.6	2.7	11	yes	DFN-12/SSOP-16	30	IA/ZD/PGA	1	$2.44

† Primary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, SGA = Selectable Gain Difference Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifer, VGA = Variable Gain Amplifier

PRECISION OP AMPS ($V_{OS} \leq 500\mu V$ MAX)

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
1	LTC2050	3	0.03	0.075	120	10000	3	2		0.003	1.2	2.7	7	out	SO-8/SOT23-5/SOT23-6	Zero-Drift Op Amp 3V/5V Operation	$1.15
1	LTC2050HV	3	0.03	0.05	120	10000	3	2		0.003	1.5	2.7	12	out	SO-8/SOT23-5/SOT23-6	Zero-Drift 3V/5V/±5V Operation	$1.45
1	LTC2054	3	0.03	0.15	120	10000	0.5	0.5			0.175	2.7	7	out	SOT23-5	Micropower Zero-Drift/3V/5V Operation	$1.00
1	LTC2054HV	5	0.03	0.15	120	10000	0.5	0.5			0.21	2.7	12	out	SOT23-5	Micropower Zero-Drift ±5V Operation	$1.25
1	LTC1050	5	0.05	0.03	114	100000	2.5	4	90	0.0018	1.5	4.75	18	out	DIP-8/DIP-14/SO-8	Zero-Drift No External Capacitors	$2.15
1	LTC1052	5	0.05	0.03	120	100000	1.2	4	30	0.0006	2	4.75	18	out	DIP-8/DIP-14/SOW-16	Low Noise Zero-Drift	$4.10
1	LTC1150	10	0.05	0.1	110	1000000	2.5	3		0.0018	1.5	4.75	32	ss	DIP-8/SO-8	Auto Zero Amplifier Works on 30V+	$3.70
1	LTC1250	10	0.05	0.2	110	316227	1.5	10	15	0.004	4	4.75	18		DIP-8/SO-8	Low Noise/Zero-Drift Bridge Amp	$2.85
1	LTC2053	10	0.05	10	105		0.2	0.2	50		1.3	2.7	11	yes	DFN-8/MS-8	Zero-Drift IA	$3.20
1	LTC2053-SYNC	10	0.05	10	105		0.2	0.2	50		1.3	2.7	11	yes	MS-8	Zero-Drift IA/Frequency Set with Ext. Clock	$3.40
1	LTC6915	10	0.05	10	105		0.2	0.2	50		1.6	2.7	11	yes	DFN-12/SSOP-16	Serial or Parallel PGA/A_V=0 to 4096 V/V	$3.95
1	LTC1100	10	0.1	0.05	104		1.8	3	38		2.8	4	18	out	DIP-8/SOW-16	Zero-Drift/Fixed Gain Of 10 And 100	$6.15
1	LTC1049	10	0.1	0.05	110	31622	0.8	0.8	80	0.002	0.3	4.75	18	out	DIP-8/SO-8	Zero-Drift No External Capacitors	$2.15
1	LTC1152	10	0.1	0.1	115	3162	0.7	0.5	130	0.6	3	3	14	yes	DIP-8/SO-8	Zero-Drift C-Load Stable with Ext. RC	$3.15
1	LT1012	25	0.6	0.1	114	2000	1	0.2	14	0.02	0.5	2.4	40		DIP-8/SO-8	Low V_{OS} Stable with Any C-Load	$1.60
1	LT1001	25	0.6	2	114	800	0.8	0.25	9.6	0.1	2.5	6	44		DIP-8/SO-8	General Purpose/High Precision	$1.65

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
1	LT1037	25	0.6	35	117	20000	60	15	2.5	0.4	4.3	8	44		DIP-8/SO-8	Extremely Low Noise	$1.90
1	LT1007	25	0.6	35	117	20000	8	2.5	2.5	0.04	4	4	44		DIP-8/SO-8	Extremely Low Noise	$1.90
1	LT6010	35	0.8	0.11	107	2000	0.33	0.09	14	0.1	0.15	2.7	40	out	DFN-8/SO-8	Micropower/Precision/RRO	$1.10
1	LT6013	35	0.8	0.25	107	2000	1.6	0.2	9.5	0.15	0.165	2.7	40	out	DFN-8/SO-8	Micropower/Precision/RRO/A_V>5	$1.10
1	LT1168	40	0.3	0.25	126		0.4	0.5	10	0.074	0.53	4.6	40		DIP-8/SO-8	Precision IA/Low Bias Current/Low Power	$3.70
1	LT1167	40	0.3	0.35	126		1	1.2	7.5	0.124	1.3	4.6	40		DIP-8/SO-8	Precision/Low Bias Current IA	$3.20
1	LT1028	40	0.8	90	114	30000	75	15	0.85	1	9.5	8	44		DIP-8/SO-8/SOW-16	Lowest Noise Low Drift/Unity Gain Stable	$4.75
1	LT1128	40	0.8	90	114	30000	20	6	0.85	1	9.5	8	44		DIP-8/SO-8	Lowest Noise High Speed	$4.75
1	LT1077	40	1.6	9	97	1000	0.23	0.08	27	0.065	0.06	2.2	44	ss	DIP-8/SO-8	High Precision Micropower Single Supply	$1.60
1	LT1996	50	1	5	80		0.56	0.12	18		0.11	2.7	36	yes	MS-10/DFN-10	Precision/A_V=9 to 117	$1.39
1	LT1991	50	1	5	80		0.56	0.12	46		0.11	2.4	40	yes	MS-10/DFN-10	Precision/Gain Select Range –13 to 14	$1.39
1	LT1097	50	1.2	0.25	115	2500	0.7	0.2	14	0.008	0.56	2	40		DIP-8/SO-8	Low Cost/C-Load Stable	$1.75
1	LT1006	50	1.3	15	100	2500	0.6	0.4	22	0.07	0.52	4	44	ss	DIP-8/SO-8	Single Supply Precision Op Amp	$1.55
1	LT1677	60	1.5	20	109	19000	7.2	2.5	3.2	0.3	3.5	2.5	44	yes	DIP-8/SO-8	High Loop Gain/Low Noise/RRIO	$2.15
1	LT1787	75	2								0.12	2.5	36	ss	SO-8/MS-8	Precision/High Side Current Sense	$2.05
1	LT1787HV	75	2								0.12	2.5	60	ss	SO-8/MS-8	Precision/Current Sense/60V V_{IN}	$2.90
1	LT1468	75	2	40	96	9000	90	22	5	0.6	5	9	36		DFN-8/DIP-8/SO-8	16-Bit Accuracy/760ns to 0.01% Settling	$2.95
1	**LT1468-2**	**75**	**2**	**40**	**96**	**9000**	**200**	**30**	**5**	**0.6**	**5**	**9**	**36**		**DFN-8/SO-8**	**16-Bit Accuracy/760ns to 0.01% Settling/Av>2**	**$2.95**
1	LT1218	90	3	70	92	1000	0.3	0.1	33	0.09	0.42	2	36	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1218L	90	3	70	92	1000	0.3	0.1	33	0.09	0.42	2	16	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LT1219	90	3	70	92	1000	0.15	0.05	33	0.09	0.42	2	36	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1219L	90	3	70	92	1000	0.15	0.05	33	0.09	0.42	2	16	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LTC6800	100	0.25	10	90		0.2	0.2	50		1.2	2.7	5.5	yes	DFN-8/MS-8	Zero-Drift RRIO IA	$1.55
1	LT1789-1	100	0.7	40	100		0.06	0.026	48	0.062	0.095	2.2	36	out	SO-8	Micropower/Precision IA/Single Supply	$3.20
1	LT1008	120	1.5	0.1	114	2000	1	0.2	14	0.02	0.6	4	40		DIP-8/SO-8	Low Bias Current/External Compensation	$2.95
1	LT1920	125	1	2	110		0.8	1.2	7.5	0.124	1.3	4.6	40		DIP-8/SO-8	Resistor Programmable IA	$3.05
1	LT1880	150	1.2	0.9	116	1600	1.1	0.55	13	0.07	1.9	2.4	40	out	SOT23-5	Picoamp Input Current/Precision	$1.75
1	LT1789-10	160	0.7	40	98		0.025	0.026	52	0.062	0.095	2.2	36	out	SO-8	Micropower/Precision IA/A_V>10	$3.20
1	LT1101	160	2	8	100		0.37	0.1	43	0.06	0.13	1.8	44		DIP-8/SOW-16	µPower Single Supply IA/A_V=10 or 100	$4.75
1	LTC6240	175	2.5	0.001	80	1600	18	10	7	0.00056	2.4	2.8	6	out	SOT-23/SO-8	18MHz/Low Noise/RRO/CMOS	$0.77
1	LT1115	200	8.5 Typ	380	104	20000	70	15	0.9	1.2	11.5	8	44		DIP-8/SOW-16	Low Noise/Ultralow Distortion	$2.90
1	LT1636	225	5	8	84	2000	0.2	0.07	52	0.035	0.055	2.6	44	yes	DFN-8/DIP-8/MS-8/SO-8	Over-The-Top Micropower Op Amp	$1.45
1	LTC6240HV	250	2.5	0.001	83	2700	18	10	7	0.00056	3.3	2.8	11	out	SOT-23/SO-8	18MHz/Low Noise/RRO/CMOS	$1.40
1	LT1022	250	5	0.05	86	400	8.5	26	14	0.0018	7	20	40		DIP-8	High speed JFET Input	$2.80
1	LT6100	300	3	10000	100		0.15	0.05			0.13	4.1	48	ss	DFN-8/MS-8	Precision/Gain Selectable Current Sense	$1.18
1	LTC6101	300	1 Typ	170	118		0.02				0.45	4	60		SOT-23-5/MS-8	High Voltage/High Side Current Sense	$1.04
1	LTC6101HV	300	1 Typ	170	118		0.02				0.45	5	100		SOT-23-5/MS-8	High Voltage/High Side Current Sense	$1.30
1	LT1222	300	8 Typ	300	100	200	500	200	3	2	10.5	5	36		SO-8/DIP-8	Fast Setting Time/High Speed/Gain>10	$3.40
1	LT1637	350	3	50	88	800	1	0.35	27	0.08	0.25	1.8	44	yes	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.45
1	LT6220	350	5	150	85	100	60	20	10	0.8	1	2.2	12.6	yes	SO-8/SOT23-5	Precision/Low Power/RRIO	$1.20
1	LT1800	350	5	250	85	85	80	25	8.5	1	2	2.3	12.6	yes	SO-8/SOT23-5	High Speed/Power/Precision/RRIO	$1.30
1	LT1672	375	2	1	90	500	0.012	0.005	185	0.01	0.002	2.1	36	yes	DIP-8/MS-8/SO-8	Ultralow Power/Over-The-Top Inputs	$1.65
1	LT1494	375	2	1	100	500	0.0027	0.001	185	0.01	0.0015	2.1	36	yes	DIP-8/MS-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$1.65
1	LT1722	400	7	300	80	17	200	70	3.8	1.2	4.5	4.6	12.6		SO-8/SOT23-5	Low Noise at Video Speed/Precision	$0.88
1	LTC6104	450	1.5 Typ	170	116		0.14				0.73	4	60		MS-8	High Voltage/High Side/Bidirectional Current Sense Amplifier	$1.38
1	LT6233	500	3	3000	90	180	60	17	1.9	0.43	1.25	3	12.6	out	SOT23-6	Ultralow Noise/Low Power/High Speed	$1.45
1	LT6233-10	500	3	3000	90	180	375	115	1.9	0.43	1.25	3	12.6	out	SOT23-6	Low Noise/Low Power/A_V>10	$1.90
1	LT6230	500	3	10000	95	260	215	70	1.1	1	3.75	3	12.6	out	SOT23-6	Ultralow Noise/Low Power/High Speed	$1.25
1	LT6230-10	500	3	10000	95	260	1450	320	1.1	1	3.75	3	12.6	out	SOT23-6	Ultralow Noise/Low Power/A_V>10	$1.50
1	LT6003	500	5	0.09	88	500	0.002	0.0008	325	0.012	0.001	1.6	16	yes	DFN-4/SOT23-5	Low Power, 1.8V Precision Op Amp	$0.72
1	LT6202	500	24	7000	65	200	100	25	1.9	0.75	3.5	2.5	12.6	yes	SO-8/SOT23-5	Low Noise/Low Power/RRIO	$1.45
2	LTC2051	3	0.03	0.075	120	10000	3	2			1.2	2.7	7	out	DFN-8/MS-8/MS-10/SO-8	Zero-Drift/3V/5V Operation	$2.00

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

PRECISION OP AMPS ($V_{OS} \leq 500\mu V$ MAX)

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
2	LTC2051HV	3	0.03	0.15	125	10000	3	2			1.5	2.7	12	out	DFN-8/MS-8/MS-10/SO-8	Zero-Drift 3V/5V/±5V Operation	$2.50
2	LTC2055	3	0.03	0.15	120	10000	0.5	0.5			0.15	2.7	7	out	DFN-8/MS-8	Micropower Zero-Drift/3V/5V Operation	$1.60
2	LTC2055HV	5	0.03	0.15	120	10000	0.5	0.5			0.18	2.7	12	out	DFN-8/MS-8	Micropower Zero-Drift ±5V Operation	$2.00
2	LTC1051	5	0.05	0.065	106	100000	2.5	4	70	0.0022	2	4.75	16.5	out	DIP-8/SOW-16	Zero-Drift No External Capacitors	$4.05
2	LTC1151	5	0.05	0.1	106	10000	2	2.5		0.0022	1.5	4.75	36	ss	DIP-8/SOW-16	Auto Zero Amplifier Works On 30V+	$5.80
2	LTC1047	10	0.05	0.03	110	31622	0.2	0.2		0.0015	0.275	4.75	16	out	DIP-8/SOW-16	Zero-Drift No External Capacitors	$4.85
2	LTC6078	25	0.7	0.001	95	3162	0.75	0.05	18		0.072	2.7	6	yes	MS-8/DFN-10	Micropower/Precision/RRIO	$1.49
2	LT1881	50	0.8	0.2	106	1600	1	0.35	14	0.03	0.9	2.4	40	out	DIP-8/SO-8	Picoamp Input Current/Precision	$2.75
2	LT1884	50	0.8	0.4	108	1600	2	0.9	9.5	0.05	0.9	2.4	40	out	DIP-8/SO-8	Picoamp Input Current/Precision	$2.75
2	LT1024	50	1.5	0.12	112	2000	1	0.2	14	0.02	0.6	4	40		DIP-14	Low V_{OS}/Low Power	$4.75
2	LT1112	60	0.5	0.25	120	5000	0.75	0.3	14	0.0008	0.4	2	40		DIP-8/SO-8	Low Power/Matching Specs/C-Load Stable	$2.35
2	LT6011	60	0.8	0.3	107	2000	0.33	0.09	14	0.1	0.15	2.4	40	out	DFN-8/SO-8/MS-8	Micropower/Precision/RRO	$1.65
2	LT6014	60	0.8	0.4	107	2000	1.6	0.2	9.5	0.15	0.165	2.7	40	out	DFN-8/SO-8	Micropower/Precision/RRO/A_V>5	$1.65
2	LT1002	60	0.9	3	110	800	0.8	0.25	9.6	0.1	2.5	6	44		DIP-14	High CMRR and PSRR	$2.85
2	LT1126	70	1	20	112	17000	65	11	2.7	0.3	3.1	8	44		SO-8/DIP-8	Low Noise/65MHz GBW/Precision	$3.50
2	LT1124	70	1	20	112	17000	12.5	4.5	2.7	0.3	2.75	8	44		DIP-8/SO-8	Low Noise/Low 1/f Corner/Precision	$3.50
2	LT2178	70	1.8	5	93	700	0.06	0.025	49	0.01	0.018	2.2	44	ss	SO-8	Micropower Single Supply	$3.50
2	LT2078	70	1.8	8	95	1000	0.2	0.07	28	0.02	0.05	2.3	44	ss	SO-8	Micropower/Single Supply/Std Pinout	$3.50
2	LT1078	70	1.8	8	97	1000	0.2	0.07	28	0.06	0.05	2.2	44	ss	DIP-8/SO-8	Precision/Micropower/Single Supply	$2.70
2	LT1178	70	3	5	97	2500	0.085	0.04	49	0.00001	0.017	2	44	ss	DIP-8/SO-8/SOW-16	Precision/Micropower/Single Supply	$2.95
2	LTC6081	70	0.8	0.001	110	120	3.5	1	13	0.0005	0.425	2.7	5.5	yes	DFN-10/MS-8	Precision/RRIO/Low Bias Current	$1.74
2	LTC6244	100	2.5	0.075	74	2500	50	35	8	0.00056	7.4	2.8	6	out	DFN-8/MSOP-8	50MHz/Low Noise/RRO/CMOS	$1.65
2	LTC6244HV	100	2.5	0.075	74	2500	50	35	8	0.00056	7.4	2.8	10.5	out	DFN-8/MSOP-8	50MHz/Low Noise/RRO/CMOS	$2.35
2	LT1678	100	3	20	98	3000	20	6	3.9	0.3	3.4	3	36	yes	SO-8	Very Low 1/f Corner Frequency	$2.50
2	LTC6241	125	2.5	0.075	80	1600	18	10	7	0.00056	2.2	2.8	6	out	DFN-8/SO-8	1pA Input Bias Current CMOS Amp	$1.25
2	LT1469	125	3	40	96	2000	90	22	5	0.6	5.2	9	36		DFN-12/DIP-8/SO-8	16-Bit Accuracy/760ns to 0.01% Settling	$4.95
2	**LT1469-2**	**125**	**3**	**40**	**96**	**2000**	**200**	**30**	**5**	**0.6**	**5.2**	**9**	**36**		**DFN-12/SO-8**	**16-Bit Accuracy/760ns to 0.01% Settling/A_V>2**	**$4.95**
2	LT1211	150	1.5	100	90	560	13	7	12	0.2	1.8	2.5	36	ss	DIP-8/SO-8	Precision/Single Supply/Wide V_{SUPPLY}	$2.85
2	LT1213	150	1.5	160	90	850	28	8.5	10	0.2	3.8	2.5	36	ss	DIP-8/SO-8	Precision/Fast/CM to V⁻	$2.85
2	LT1413	150	2	15	100	1400	0.95	0.3	23	0.02	0.45	3	22	ss	DIP-8/SO-8	Single Supply/Optimized for 5V	$2.00
2	LT1013	150	2	20	100	8000	0.8	0.4	22	0.07	0.5	4	44	ss	SO-8/DIP-8	Single Supply Precision Op Amps	$1.90
2	LTC6241HV	175	2.5	0.075	80	1600	18		7	0.00056	2.2	2.8	11	out	DFN-8/SO-8	1pA Input Bias Current CMOS Amp	$2.20
2	LT1492	180	3	100	86	350	4.5	1.8	16.5	0.14	0.55	2.1	36	ss	SO-8/DIP-8	Single Supply/Low Power/Precision	$3.45
2	LT1215	300	2.5	500	90	150	23	30	12	0.5	6.6	2.5	36	ss	DIP-8/SO-8	Precision/Fast/CM to V⁻	$2.85
2	LT6234	350	3	3000	90	180	60	17	1.9	0.43	1.25	3	12.6	out	DFN-8/SO-8	Ultralow Noise/Low Power	$2.45
2	LT6231	350	3	10000	95	260	215	70	1.1	1	3.75	3	12.6	out	DFN-8/SO-8	Ultralow Noise/Low Power/High Speed	$1.95
2	LT6221	350	5	150	85	100	60	20	10	0.8	1	2.2	12.6	yes	DFN-8/SO-8	Precision/Low Power/RRIO	$1.85
2	LT1801	350	5	250	85	85	80	25	8.5	1	2	2.3	12.6	yes	DFN-8/MS-8/SO-8	High Speed/Power/Precision/RRIO	$1.95
2	LT1673	375	2	1	90	500	0.012	0.005	185	0.01	0.002	2.1	36	yes	DIP-8/SO-8	Ultralow Power/Over-The-Top Inputs	$2.45
2	LT1495	375	2	1	100	500	0.0027	0.001	185	0.01	0.0015	2.1	36	yes	DIP-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$2.45
2	LT1466L	390	7	14	88	1500	0.12	0.04	45	0.05	0.075	2	16	yes	DIP-8/SO-8	Precision Rail-to-Rail Micropower	$4.15
2	LT1723	400	7	300	80	17	200	70	3.8	1.2	4.5	4.6	12.6		MS-8/SO-8	Low Noise at Video Speed/Precision	$1.15
2	LTC6103	450	1.5 Typ	170	110		0.12				0.45	4	60		MS-8	Dual High Voltage/High Side Current Sense Amp	$1.66
2	LT1057	450	10	0.05	86	350	5	14	13	0.0015	2.5	8	40		DIP-8/SO-8/SOW-16	High Speed JFET Input	$2.45
2	LT1457	450	10	0.05	86	300	1.7	4	13	0.0015	3	9	40		DIP-8/SO-8	JFET with Excellent C-Load Stability	$2.35
2	LT1498	475	2.5	650	93	3800	10.5	4.5	12	0.3	2.2	2.2	36	yes	DIP-8/SO-8	Stable with Large C-Load	$2.96
2	LT1366	475	6	35	95	2000	0.4	0.13	29	0.07	0.52	2	36	yes	DIP-8/SO-8	C-Load Stable up to 1000pF	$3.50
2	LT1368	475	6	35	95	2000	0.16	0.065	29	0.07	0.52	2	36	yes	DIP-8/SO-8	Stable with 100nF C-Load	$3.45
2	LT1490A	500	4	8	84	1500	0.18	0.06	50	0.015	0.055	2	44	yes	DFN-8/DIP-8/MS-8/SO-8	RRIO/Over-The-Top	$1.75
2	LT6004	500	5	0.09	88	500	0.002	0.0008	325	0.012	0.001	1.6	16	yes	DFN-8/MS-8	1.6V/1µA Precision RRIO Op Amp	$1.10
2	LT6203	500	24	7000	65	200	100	25	1.9	0.75	3.5	2.5	12.6	yes	DFN-8/MS-8/SO-8	Low Noise/Low Power/RRIO	$2.45
4	LTC2052	3	0.03	0.075	120	10000	3	2			1.2	2.7	7	out	SO-14/SSOP-16	Zero-Drift Op Amp 3V/5V Operation	$3.65

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
4	LTC2052HV	3	0.03	0.15	125	10000	3	2			1.5	2.7	12	out	SO-14/SSOP-16	Zero-Drift 3V/5V/±5V Operation	$4.55
4	LTC1053	5	0.05	0.065	106	100000	2.5	4	70	0.0022	2	4.75	16.5	out	DIP-14/SOW-18	Zero-Drift No External Capacitors	$7.50
4	LTC6079	25	1.4	0.001	95	3162	0.75	0.05	18		0.072	2.7	6	yes	DFN-16/SSOP-16	Micropower/Precision/RRIO	$2.53
4	LT6012	60	0.8	0.3	107	2000	0.33	0.09	14	0.1	0.15	2.4	40	out	SO-14/SSOPN-16	Micropower/Precision/RRO	$2.95
4	LT1114	60	1.1	0.25	120	5000	0.75	0.3	14	0.008	0.4	2	40		DIP-14/SO-16	Low Power/Matching Specs/C-Load Stable	$4.40
4	LTC6082	70	0.8	0.001	110	120	3.5	1	13	0.0005	0.425	2.7	5.5	yes	DFN-16/SSOP-16	Precision/RRIO/Low Bias Current	$2.97
4	LT1882	80	0.8	0.5	106	1600	1	0.35	14	0.3	0.9	2.4	40	out	SO-14	Picoamp Input Current/Precision	$4.85
4	LT1885	80	0.8	0.9	108	1600	2	0.9	9.5	0.05	0.9	2.4	40	out	SO-14	Picoamp Input Current/Precision	$4.85
4	LT1127	90	1	20	112	17000	65	11	2.7	0.3	3.1	8	44		DIP-14/SOW-16	Low Noise/65MHz GBW/Precision	$5.70
4	LT1125	90	1	20	112	17000	12.5	4.5	2.7	0.3	2.75	8	44		DIP-14/SOW-16	Low Noise/Low 1/f Corner/Precision	$5.70
4	LT1179	100	0.3	5	97	2500	0.085	0.04	49	0.00001	0.017	2	44	ss	DIP-14/SOW-16	Precision/Micropower/Single Supply	$3.70
4	LT1079	100	1.8	8	97	1000	0.2	0.07	28	0.06	0.05	2.2	44	ss	DIP-14/SOW-16	Precision/Micropower/Single Supply	$3.40
4	LT2179	100	3	5	93	700	0.06	0.025	49	0.01	0.018	2.2	44	ss	SO-14	Micropower Single Supply	$6.30
4	LT1679	100	3	20	98	3000	20	6	3.9	0.3	3.4	3	36	yes	SO-14	Very Low 1/f Corner Frequency	$3.85
4	LT2079	110	3	8	95	1000	0.2	0.07	28	0.02	0.05	2.3	44	ss	SO-14	Micropower Single Supply	$5.95
4	LT1493	130	3	100	86	350	4.5	1.8	16.5	0.14	0.55	2.1	36	ss	SO-16	Single Supply/Low Power/Precision	$6.40
4	LT1014	150	2	20	100	8000	0.8	0.4	22	0.07	0.5	4	44	ss	DIP-14/SOW-16	Single Supply Precision Op Amp	$3.45
4	LTC6242	150	2.5	0.075	80	1600	18	10	7	0.00056	2.2	2.8	6	out	DFN-16/SSOP-16	1pA Input Bias Current CMOS Amp	$2.25
4	LTC6242HV	200	2.5	0.075	80	1600	18	10	7	0.00056	2.2	2.8	11	out	DFN-16/SSOP-16	1pA Input Bias Current CMOS Amp	$3.30
4	LT1212	275	3	125	86	560	13	7	12	0.2	1.8	2.5	36	ss	DIP-14/SO-16	Precision/Single Supply/Wide V_{SUPPLY}	$5.10
4	LT1214	275	3	200	86	250	28	8.5	10	0.2	3.8	2.5	36	ss	DIP-14/SO-16	Precision/Fast CM to V^-	$5.10
4	LT6235	350	3	3000	90	180	60	17	1.9	0.43	1.25	3	12.6	out	SSOP-16	Ultralow Noise/Low Power	$4.15
4	LT6232	350	3	10000	95	260	215	70	1.1	1	3.75	3	12.6	out	SSOP-16	Ultralow Noise/Low Power/High Speed	$3.30
4	LT6222	350	5	150	85	100	60	20	10	0.8	1	2.2	12.6	yes	SSOP-16	Precision/Low Power/RRIO	$2.95
4	LT1802	350	5	250	85	85	80	25	8.5	1	2	2.3	12.6	yes	SO-14	High Speed/Power/Precision/RRIO	$3.50
4	LT1674	375	2	1	90	500	0.012	0.005	185	0.01	0.002	2.1	36	yes	DIP-14/SO-14	Ultralow Power/Over-The-Top Inputs	$3.25
4	LT1496	375	2	1	100	500	0.0027	0.001	185	0.01	0.0015	2.1	36	yes	DIP-14/SO-14	Ultralow Power/Precision/RRIO	$3.25
4	LT1467L	390	7	14	88	1500	0.12	0.04	45	0.05	0.075	2	16	yes	SO-16	Precision Micropower Rail-to-Rail	$7.20
4	LT1724	400	7	300	80	17	200	70	3.8	1.2	4.5	4.6	12.6		SO-14	Low Noise at Video Speed/Precision	$2.19
4	LT1216	450	5	600	90	600	23	30	12	0.5	6.6	2.5	36	ss	DIP-14/SO-16	Precision/Fast/CM to V^-	$5.10
4	LT1499	475	2.5	650	93	3800	10.5	4.5	12	0.0003	2.2	2.2	36	yes	SO-14	Stable with Large C-Load	$5.60
4	LT6204	500	24	7000	65	200	100	25	1.9	0.75	3.5	2.5	12.6	yes	SO-14/SSOPN-16	Low Noise/Low Power/RRIO	$4.50

† Primary Sort Column
†† Secondary Sort Column

Note:

1. ss = Input common mode range includes negative supply rail

ZERO-DRIFT OP AMPS

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	†† TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
1	LTC2050	3	0.03	0.075	120	10000	3	2		1.2	2.7	7	out	SO-8/SOT23-5/SOT23-6	Zero-Drift Op Amp, 3V/5V Operation	$1.15
1	LTC2050HV	3	0.03	0.05	120	10000	3	2		1.5	2.7	12	out	SO-8/SOT23-5/SOT23-6	Zero-Drift 3V/5V/±5V Operation	$1.45
1	LTC2054	3	0.03	0.15	120	10000	0.5	0.5		0.175	2.7	7	out	SOT23-5	Micropower Zero-Drift 3V/5V Operation	$1.00
1	LTC2054HV	5	0.03	0.15	120	10000	0.5	0.5		0.21	2.7	12	out	SOT23-5	Micropower Zero-Drift ±5V Operation	$1.25
1	LTC1050	5	0.05	0.03	114	100000	2.5	4	90	1.5	4.75	18	out	DIP-8/DIP-14/SO-8	Zero-Drift No External Capacitors	$2.15
1	LTC1052	5	0.05	0.03	120	100000	1.2	4	30	2	4.75	18	out	DIP-8/DIP-14/SOW-16	Low Noise Zero-Drift	$4.10
1	LTC1150	10	0.05	0.1	110	1000000	2.5	3		1.5	4.75	32	ss	DIP-8/SO-8	Auto-Zero Amplifier Works on 30V+	$3.70
1	LTC1250	10	0.05	0.2	110	316227	1.5	10	15	4	4.75	18		DIP-8/SO-8	Low Noise/Zero-Drift Bridge Amp	$2.85
1	LTC2053	10	0.05	10	105		0.2	0.2	50	1.3	2.7	11	yes	DFN-8/MS-8	Zero-Drift IA	$3.20
1	LTC2053-SYNC	10	0.05	10	105		0.2	0.2	50	1.3	2.7	11	yes	MS-8	Zero-Drift IA/Freq. Set with Ext. Clock	$3.40
1	LTC6915	10	0.05	10	105		0.2	0.2	50	1.6	2.7	11	yes	DFN-12/SSOP-16	Serial or Par. PGA/A_V=0 to 4096 V/V	$2.44
1	LTC1100	10	0.1	0.05	104		1.8	3	38	2.8	4	18	out	DIP-8/SOW-16	Zero-Drift/fixed Gain of 10 and 100	$6.15
1	LTC1049	10	0.1	0.05	110	31622	0.8	0.8	80	0.3	4.75	18	out	DIP-8/SO-8	Zero-Drift No External Capacitors	$2.15
1	LTC1152	10	0.1	0.1	115	3162	0.7	0.5	130	3	3	14	yes	DIP-8/SO-8	Zero-Drift C-Load Stable with Ext. RC	$3.15
2	LTC2051	3	0.03	0.075	120	10000	3	2		1.2	2.7	7	out	DFN-8/MS-8/MS-10/SO-8	Zero-Drift 3V/5V Operation	$2.00
2	LTC2051HV	3	0.03	0.15	125	10000	3	2		1.5	2.7	12	out	DFN-8/MS-8/MS-10/SO-8	Zero-Drift 3V/5V/±5V Operation	$2.50
2	LTC2055	3	0.03	0.15	120	10000	0.5	0.5		0.15	2.7	7	out	DFN-8/MS-8	Micropower Zero-Drift 3V/5V Operation	$1.60
2	LTC2055HV	5	0.03	0.15	120	10000	0.5	0.5		0.18	2.7	12	out	DFN-8/MS-8	Micropower Zero-Drift ±5V Operation	$2.00
2	LTC1051	5	0.05	0.065	106	100000	2.5	4	70	2	4.75	16.5	out	DIP-8/SOW-16	Zero-Drift No External Capacitors	$4.05
2	LTC1151	5	0.05	0.1	106	10000	2	2.5		1.5	4.75	36	ss	DIP-8/SOW-16	Auto-Zero Amplifier Works on 30V+	$5.80
2	LTC1047	10	0.05	0.03	110	31622	0.2	0.2		0.275	4.75	16	out	DIP-8/SOW-16	Zero-Drift No External Capacitors	$4.85
4	LTC2052	3	0.03	0.075	120	10000	3	2		1.2	2.7	7	out	SO-14/SSOP-16	Zero-Drift Op Amp, 3V/5V Operation	$3.65
4	LTC2052HV	3	0.03	0.15	125	10000	3	2		1.5	2.7	12	out	SO-14/SSOP-16	Zero-Drift 3V/5V/±5V Operation	$4.55
4	LTC1053	5	0.05	0.065	106	100000	2.5	4	70	2	4.75	16.5	out	DIP-14/SOW-18	Zero-Drift No External Capacitors	$7.50

† Primary Sort Column
†† Secondary Sort Column

Note:
1. ss = Input common mode range includes negative supply rail

PRECISION RAIL-TO-RAIL INPUT/OUTPUT OP AMPS (V_{OS} MAX ≤ 1mV)

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	V_{OH}[1] Typ 25°C (V)	V_{OL}[1] Typ 25°C (V)	Package	Features	Price 1K Qty
1	LTC2053	10	0.05	10	0.2	0.2	105		50	1.3	no	2.7	11	0.06	0.02	DFN-8/MS-8	Zero-Drift IA	$3.20
1	LTC2053-SYNC	10	0.05	10	0.2	0.2	105		50	1.3	no	2.7	11	0.06	0.02	MS-8	Zero-Drift IA/Freq. Set with Ext. Clock	$3.40
1	LTC6915	10	0.05	10	0.2	0.2	105		50	1.6	yes	2.7	11	0.01	0.017	DFN-12/SSOP-16	Serial or Par. PGA/A_V=0 to 4096 V/V	$2.44
1	LTC1152	10	0.1	0.1	0.7	0.5	115	3162	130	3	yes	3	14	0.01	0.01	DIP-8/SO-8	Zero-Drift C-Load Stable with Ext. RC	$3.15
1	LT1991	50	1	5	0.56	0.12	80		46	0.11	no	2.4	40	0.04	0.04	MS-10/DFN-10	Precision/Gain Select Range –13 to 14	$1.39
1	LT1996	50	1	5	0.56	0.12	80		18	0.11	no	2.7	36	0.04	0.04	MS-10/DFN-10	Precision/A_V=9 to 117	$1.39
1	LT1677	60	1.5	20	7.2	2.5	109	19000	3.2	3.5	no	2.5	44	0.11	0.11	DIP-8/SO-8	High Loop Gain/Low Noise/RRIO	$2.15
1	LT1218	90	3	70	0.3	0.1	92	1000	33	0.42	yes	2	36	0.004	0.003	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1218L	90	3	70	0.3	0.1	92	1000	33	0.42	yes	2	16	0.004	0.003	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LT1219	90	3	70	0.15	0.05	92	1000	33	0.42	yes	2	36	0.004	0.003	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1219L	90	3	70	0.15	0.05	92	1000	33	0.42	yes	2	16	0.004	0.003	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LTC6800	100	0.25	10	0.2	0.2	90		50	1.2	no	2.7	5.5	0.02	0.02	DFN-8/MS-8	Zero-Drift RRIO IA	$1.55
1	LT1636	225	5	8	0.2	0.07	84	2000	52	0.055	yes	2.6	44	0.015	0.002	DFN-8/DIP-8/MS-8/SO-8	Over-The-Top Micropower Op Amp	$1.45
1	LT1637	350	3	50	1	0.35	88	800	27	0.25	yes	1.8	44	0.025	0.003	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.45
1	LT1800	350	5	250	80	25	85	85	8.5	2	no	2.3	12.6	0.016	0.012	SO-8/SOT23-5	High Speed/Power/Precision/RRIO	$1.30
1	LT6220	350	5	150	60	20	85	100	10	1	no	2.2	12.6	0.005	0.005	SO-8/SOT23-5	Precision/Low Power/RRIO	$1.20
1	LT1672	375	2	1	0.012	0.005	90	500	185	0.002	no	2.1	36	0.035	0.05	DIP-8/MS-8/SO-8	Ultralow Power/Over-The-Top Inputs	$1.65
1	LT1494	375	2	1	0.0027	0.001	100	500	185	0.0015	no	2.1	36	0.035	0.05	DIP-8/MS-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$1.65

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	V_{OH}[1] Typ 25°C (V)	V_{OL}[1] Typ 25°C (V)	Package	Features	Price 1K Qty
1	LT6003	500	5	0.09	0.002	0.0008	88	500	325	0.001	no	1.6	16	0.045	0.015	SOT23-5/DFN-4	1.6V/1µA Precision RRIO	$0.72
1	LT6202	500	24	7000	100	25	65	200	1.9	3.5	no	2.5	12.6	0.04	0.005	SO-8/SOT23-5	Low Noise/Low Power/RRIO	$1.45
1	LT1806	550	5	4000	325	125	79	220	3.5	13	yes	2.5	12.6	0.015	0.008	SO-8/SOT23-6	High Speed/Precision/Low Noise	$2.10
1	LT6000	750	5	5	0.05	15	90	65	75	0.016	no	1.8	18	0.03	0.03	DFN-6	1.8V/13µA Precision Op Amp	$0.80
1	LT1783	800	5	80	1.25	0.42	90	1500	20	0.3	yes	2.2	18	0.06	0.003	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1782	800	5	15	0.2	0.07	90	1500	50	0.055	yes	2.2	18	0.06	0.003	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT6200	1000	24	40000	165	50	68	200	0.95	23	yes	2.5	12.6	0.07	0.012	SO-8/SOT23-6	Low Noise/RRIO/High Speed	$2.15
1	LT6200-5	1000	24	40000	800	250	68	200	0.95	23	yes	2.5	12.6	0.07	0.012	SO-8/SOT23-6	Low Noise/RRIO/High Speed/A_V>5	$1.50
1	LT6200-10	1000	24	40000	1600	450	68	200	0.95	23	yes	2.5	12.6	0.07	0.012	SO-8/SOT23-6	Low Noise/RRIO/High Speed/A_V>10	$1.50
2	LTC6078	25	0.7	0.001	0.75	0.05	95	3162	18	0.072	yes	2.7	6	0.001	0.001	MS-8/DFN-10	Micropower/Precision/RRIO	$1.49
2	LTC6081	70	0.8	1	3.5	1	110	120	13	425	yes	2.7	5.5	0.001	0.001	DFN-10/MS-8	Precision/RRIO/Low Bias Current	$1.74
2	LTC6244	100	2.5	0.075	50	35		2500	8	7.4	no	2.8	7	0.015	0.015	DFN-8/MSOP-8	50MHz Precision CMOS Op Amp	$1.65
2	LTC6244HV	100	2.5	0.075	50	35		2500	8	7.4	no	2.8	12	0.015	0.015	DFN-8/MSOP-8	50MHz Precision CMOS Op Amp	$2.35
2	LT1678	100	3	20	20	6	98	3000	3.9	3.4	no	3	36	0.075	0.08	SO-8	Very Low 1/f Corner Frequency	$2.50
2	LT1801	350	5	250	80	25	85	85	8.5	2	no	2.3	12.6	0.018	0.016	DFN-8/MS-8/SO-8	High Speed/Power/Precision/RRIO	$1.95
2	LT6221	350	5	150	60	20	85	100	10	1	no	2.2	12.6	0.005	0.005	DFN-8/SO-8	Precision/Low Power/RRIO	$1.85
2	LT1673	375	2	1	0.012	0.005	90	500	185	0.002	no	2.1	36	0.035	0.05	DIP-8/SO-8	Ultralow Power/Over-The-Top Inputs	$2.45
2	LT1495	375	2	1	0.0027	0.001	100	500	185	0.0015	no	2.1	36	0.035	0.05	DIP-8/SO-8	Ultralow power/Rail-to-Rail/Precision	$2.45
2	LT1466L	390	7	14	0.12	0.04	88	1500	45	0.075	no	2	16	0.026	0.032	DIP-8/SO-8	Precision Rail-to-Rail Micropower	$4.15
2	LT1498	475	2.5	650	10.5	4.5	93	3800	12	2.2	no	2.2	36	0.0025	0.014	DIP-8/SO-8	Stable with Large C-Load	$2.96
2	LT1366	475	6	35	0.4	0.13	95	2000	29	0.52	no	2	36	0.004	0.006	DIP-8/SO-8	C-Load Stable up to 1000pF	$3.50
2	LT1368	475	6	35	0.16	0.065	95	2000	29	0.52	no	2	36	0.004	0.012	DIP-8/SO-8	Stable with 100nF C-Load	$3.45
2	LT1490A	500	4	8	0.18	0.06	84	1500	50	0.055	no	2	44	0.022	0.003	DFN-8/DIP-8/MS-8/SO-8	RRIO/Over-The-Top	$1.75
2	LT6004	500	5	0.09	0.002	0.0008	88	500	325	0.001	no	1.6	16	0.045	0.015	DFN-8/MS-8	1.6V/1µA Precision RRIO	$1.10
2	LT6203	500	24	7000	100	25	65	200	1.9	3.5	no	2.5	12.6	0.04	0.005	DFN-8/MS-8/SO-8	Low Noise/Low Power/RRIO	$2.45
2	LT1630	525	5.5	1000	30	9.2	79	3500	6	4.4	no	2.6	36	0.015	0.014	DIP-8/SO-8	Low Distortion/High Speed/RRIO	$2.96
2	LT1807	550	5	4000	325	125	79	220	3.5	13	no	2.5	12.6	0.015	0.008	MS-8/SO-8	High Speed/Precision/Low Noise	$3.40
2	LT6001	600	5	5	0.05	0.015	90	65	75	0.016	yes	1.8	18	0.03	0.03	MS-8/DFN-10	1.8V/13µA Precision RRIO	$1.25
2	LT1638	600	6	50	1.2	0.38	88	1500	20	0.23	no	2.2	44	0.02	0.003	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.95
2	LTC6084	750	5	0.001 Typ	1.5	0.5	64	2000	31	0.13	no	2.5	5.5	0.0005	0.0005	3×3 DFN-8/MS-8	Precision/1.5MHz/RRIO/Low Bias Current	$0.91
2	LTC6087	750	5	0.001 Typ	14	7.2	70	6000	12	1.3	yes	2.7	5.5	0.015	0.25	MS-8/DFN-10	Precision/14MHz/RRIO/Low Bias Current	$0.91
2	LT6201	1000	24	40000	165	50	68	200	0.95	23	no	2.5	12.6	0.07	0.012	DFN-8/SO-8	Low Noise/RRIO/High Speed	$3.65
4	LTC6079	25	1.4	0.001	0.75	0.05	95	3162	18	0.072	no	2.7	6	0.001	0.001	DFN-16/SSOP-16	Micropower/Precision/RRIO	$2.53
4	LTC6082	70	0.8	1	3.5	1	110	120	13	425	yes	2.7	5.5	0.001	0.001	DFN-16/SSOP-16	Precision/RRIO/Low Bias Current	$2.97
4	LT1679	100	3	20	20	6	98	3000	3.9	3.4	no	3	36	0.075	0.08	SO-14	Very Low 1/f Corner Frequency	$3.85
4	LT1802	350	5	250	80	25	85	85	8.5	2	no	2.3	12.6	0.018	0.016	SO-14	High Speed/Power/Precision/RRIO	$3.50
4	LT6222	350	5	150	60	20	85	100	10	1	no	2.2	12.6	0.005	0.005	SSOP-16	Precision/Low Power/RRIO	$2.95
4	LT1674	375	2	1	0.012	0.005	90	500	185	0.002	no	2.1	36	0.035	0.05	DIP-14/SO-14	Ultralow Power/Over-The-Top Inputs	$3.25
4	LT1496	375	2	1	0.0027	0.001	100	500	185	0.0015	no	2.1	36	0.035	0.05	DIP-14/SO-14	Ultralow Power/Precision/RRIO	$3.25
4	LT1467L	390	7	14	0.12	0.04	88	1500	45	0.075	no	2	16	0.026	0.032	SO-16	Precision Micropower Rail-to-Rail	$7.20
4	LT1499	475	2.5	650	10.5	4.5	93	3800	12	2.2	no	2.2	36	0.0025	0.014	SO-14	Stable with Large C-Load	$5.60
4	LT6204	500	24	7000	100	25	65	200	1.9	3.5	no	2.5	12.6	0.04	0.005	SO-14/SSOPN-16	Low Noise/Low Power/RRIO	$4.50
4	LT1631	525	5.5	1000	30	9.2	79	3500	6	4.4	no	2.6	36	0.015	0.014	SO-14	Low Distortion/High Speed/RRIO	$5.60
4	LT1639	600	6	50	1.075	0.38	88	1500	20	0.23	no	2.2	44	0.02	0.003	DIP-14/SO-14	High Voltage/Over-The-Top/Low Power	$3.30
4	LTC6085	750	5	0.001 Typ	1.5	0.5	64	2000	31	0.13	no	2.5	5.5	0.0005	0.0005	5×3 DFN-16/SSOP-16	Precision/1.5MHz/RRIO/Low Bias Current	$1.40
4	LT6005	650	5	0.09	0.002	0.0008	88	500	325	0.001	no	1.6	16	0.045	0.015	DFN-16/TSSOP-16	1.6V/1µA Precision RRIO	$1.75
4	LT6002	750	5	5	0.05	0.015	90	65	75	0.016	no	1.8	18	0.03	0.03	SSOP-16/DFN-16	1.8V/13µA Precision RRIO	$2.00
4	LTC6088	750	5	0.001 Typ	14	7.2	70	6000	12	1.3	yes	2.7	5.5	0.015	0.25	SSOP-16/DFN-16	Precision/14MHz/RRIO/Low Bias Current	$1.40
4	LT1367	800	6	35	0.4	0.13	93	2000	29	0.52	no	2	36	0.004	0.006	SO-14	C-Load Stable up to 1000pF	$6.10
4	LT1369	800	6	35	0.16	0.065	93	2000	29	0.52	no	2	36	0.004	0.006	SO-14	Stable with 100nF C-Load	$6.10
4	LT1491A	1000	4	8	0.18	0.06	84	1500	50	0.055	no	2	44	0.022	0.003	DIP-14/SO-14/DFN-16	RRIO/Over-The-Top	$3.00

† Primary Sort Column
†† Secondary Sort Column

Note:

1. V_{OH} = How close the output swings to the postive rail
   V_{OL} = How close the output swings to the negative rail

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

INSTRUMENTATION AMPS

Part Number	† V_{OS} Max 25°C (µV)	Av Min Stable Typ 25°C (V/V)	Av Max Typ 25°C (V/V)	Gain Error Max 25°C (%)	Gain Drift Max 25°C (ppm/°C)	CMRR Min 25°C (dB)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{SUPPLY} Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Package	Features	Price 1K Qty
LTC6915	10	1	4088	0.075	1	105	0.05	10	50	1.6	2.7	11	0.2	0.2	DFN-12/SSOP-16	Serial or Par. PGA/A_V=0 to 4096 V/V	$2.44
LTC2053	10	1		0.01		105	0.05	10	50	1.3	2.7	11	0.2	0.2	DFN-8/MS-8	Zero-Drift IA	$3.20
LTC2053-SYNC	10	1		0.01		105	0.05	10	50	1.3	2.7	11	0.2	0.2	MS-8	Zero-Drift IA/Freq. Set with Ext. Clock	$3.40
LTC1100	10	10	100	0.05		104	0.1	0.05	38	2.8	4	18	1.8	3	DIP-8/SOW-16	Zero-Drift/Fixed Gain of 10 and 100	$6.15
LT1167	40	1	10000	0.02	50	126	0.3	0.35	7.5	1.3	4.6	40	1	1.2	DIP-8/SO-8	Precision/Low Bias Current IA	$3.20
LT1168	40	1	10000	0.02	200	126	0.3	0.25	10	0.53	4.6	40	0.4	0.5	DIP-8/SO-8	Precision IA/Low Bias Current/Low Power	$3.70
LTC6800	100	1		0.1		90	0.25	10	50	1.2	2.7	5.5	0.2	0.2	DFN-8/MS-8	Zero-Drift RRIO IA	$1.55
LT1789-1	100	1	1000	0.2	50	100	0.7	40	48	0.095	2.2	36	0.06	0.026	SO-8	Micropower/Precision IA/Single Supply	$3.20
LT1920	125	1	10000	0.1	50	110	1	2	7.5	1.3	4.6	40	0.8	1.2	DIP-8/SO-8	Resistor Programmable IA	$3.05
LT1789-10	160	10	1000	0.25	50	98	0.7	40	52	0.095	2.2	36	0.025	0.026	SO-8	Micropower/Precision IA/A_V>10	$3.20
LT1101	160	10	100	0.04	4	100	2	8	43	0.13	1.8	44	0.37	0.1	DIP-8/SOW-16	Micropower Single Supply IA/A_V=10 or 100	$4.75
LT1102	600	10	100	0.05	10	84	8	0.04	19	5	18	40	3.5	30	DIP-8	JFET Input IA/Gain of 10 or 100	$4.75

† Primary Sort Column

HIGH SPEED OP AMPS (GAIN BANDWIDTH PRODUCT ≥10MHz)

† Amplifiers Per Package	Part Number	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	A_{VOL} Typ 25°C (V/mV)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Av Min Stable Typ 25°C (V/V)	Type[2]	Price 1K Qty
1	LTC6406	3000	630	11	1.6		3500	6000 Typ		38	22	yes	2.7	3.5	in	3×3 QFN-16		1	DIFF	$3.44
1	LTC6405	2700	690	6	1.6	2.4	15000	8000 Typ	31.6		23	no	4.5	5.5	ss	3×3 QFN-16		1	DIFF	$3.44
1	LTC6401-8	2200	3400	3	3.2		4000			10	60		2.85	3.5		3×3 QFN-16		2.5	DIFF	$2.95
1	LTC6400-8	2200	3810		1		5000			20	95	no	2.85	3.5	ss	3×3 QFN-16		2.5	DIFF	$3.20
1	LTC6416	2000	3400	1.8	1.8	6.5	5000	15000		20	51	no	2.7	3.9	ss	3×2 DFN-10		1	DIFF	$3.50
1	LTC6401-14	1950	3600	2.8	2.5		3000			10	60	yes	2.85	3.5		3×3 QFN-16		5	DIFF	$2.95
1	LTC6400-26	1900	6670	3	1.5		2000			20	102		2.85	3.5		3×3 QFN-16		20	DIFF	$3.20
1	LTC6400-14	1860	4800		2.5		3000			20	96	no	2.85	3.5		3×3 QFN-16		5	DIFF	$3.50
1	LTC6400-20	1840	4500	0.8	2.1		2000			20	105	yes	2.85	3.5		3×3 QFN-16		10	DIFF	$2.95
1	LTC6404-4	1700	1200	11	1.5	3	2000	–23000	32	40	39	yes	2.7	5.25	out	3×3 QFN-16		4	DIFF	$3.44
1	LTC6401-26	1610	3300	3.6	1.5		2500			10	60	yes	2.85	3.5		3×3 QFN-16		20	DIFF	$2.95
1	LT6200-10	1600	450		0.95	2.2	1000	40000	200	60	23	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	10	VFB	$1.50
1	LT6230-10	1450	320		1.1	1	500	10000	260	30	3.75	yes	3	12.6	out	SOT23-6	2000	10	VFB	$1.50
1	LTC6410-6	1400	1500		3		2000			38	130	yes	2.8	5.25		3×3 QFN-16		2	DIFF	$2.89
1	LTC6401-20	1250	4500	3.2	2.1		2000			10	62	yes	2.85	3.5		3×3 QFN-16		10	DIFF	$2.95
1	LT1226	1000	400	100	2.6	1.5	1000	8000	150	24	9	no	5	36		SO-8/DIP-8	1000	25	VFB	$2.85
1	LTC6404-2	900	700	12	1.5	3	2000	–23000	32	40	39	yes	2.7	5.25	out	3×3 QFN-16		2	DIFF	$3.44
1	LT1993-4	900	1100	4	2.15		6500			40	112	yes	4	5.5		3×3 QFN-16	5	4	DIFF	$2.95
1	LT5514	850		500				20000		33	0.1	yes	4.75	5.25		TSSOP-20		1	DIFF/PGA	$5.20
1	**LTC6412**	**800**								**17**	**120**	**yes**	**3**	**3.6**		**4×4 QFN-24**		**1**	**DIFF/VGA**	**C.F.**
1	LT1993-2	800	1100	4	3.5		6500			40	112	yes	4	5.5		3×3 QFN-16	5	2	DIFF	$2.95
1	LT6200-5	800	250		0.95	2.2	1000	40000	200	60	23	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	5	VFB	$1.50
1	LT1993-10	700	1100	4	1.7		6500			40	112	yes	4	5.5		3×3 QFN-16	5	10	DIFF	$2.95
1	LT5524	540		500				30000		24	0.1	yes	4.75	5.25		TSSOP-20		1	DIFF, PGA	$4.40
1	LTC6404-1	500	450	13	1.5	3	2000		32	40	35.5	yes	2.7	5.25	out	3×3 QFN-16			DIFF	$3.44
1	LT1222	500	200	75	3	2	300	300	200	24	10.5	no	5	36		SO-8/DIP-8	1000	10	VFB	$3.40
1	LT1818	400	2500	10	6	1.2	1500	8000	2.5	40	10	no	3.5	12.6		SO-8/SOT23-5	20	1	VFB	$0.95
1	LT1395	400	800	25	4.5	6	10000			80	6.5	yes	3	12.6		SO-8/SOT23-5/SOT23-6	1000	1	CFA	$1.30
1	LT6233-10	375	115		1.9	0.43	500	3000	180	40	1.25	yes	3	12.6	out	SOT23-6	1000	10	VFB	$1.90
1	LT1192	350	450	90	9	4	2500	2500	180	50	38	yes	4	18		DIP-8/SO-8	50	5	VFB	$1.70
1	LT1194	350	500	200	15	4	6000	3500		64	40	no	4	18		DIP-8/SO-8	50	10	VIDEO	$2.90
1	LT1806	325	125	60	3.5	1.5	550	4000	220	35	13	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	1	VFB	$2.10
1	LT6402-6	300	400	10	3.8		6500			30	37	yes	4	5.5	ss	3×3 QFN-16	5	2	DIFF	$2.39

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	A_{VOL} Typ 25°C (V/mV)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Av Min Stable Typ 25°C (V/V)	Type[2]	Price 1K Qty
1	LT6402-12	300	400	10	2.7		6500			30	37	yes	4	5.5	ss	3×3 QFN-16	5	4	DIFF	$2.39
1	LT6402-20	300	1000	8	1.85		6500			30	37	yes	4	5.5	ss	3×3 QFN-16	5	10	DIFF	$2.39
1	LT1675-1	250	1100				40000	30000		50	14	yes	5.2	12.6		MS-8/SO-8	5	2	VIDEO	$1.95
1	LT1252	250	250		3	1.5	15000		1.5	30	18	no	4	28		DIP-8/SO-8	100	1	CFA	$1.70
1	LT1815	220	1500	15	6	1.3	1500	8000	3	50	7.8	no	4	12.6		SO-8/SOT23-5/SOT23-6	10	1	VFB	$0.88
1	LT6230	215	70	50	1.1	1	500	10000	260	30	3.75	yes	3	12.6	out	SOT23-6	1000	1	VFB	$1.25
1	LTC6403-1	200	200	30	2.8	1.8	1500	2500	32	30	11.8	yes	2.7	5.25	out	3×3 QFN-16		1	DIFF	$1.79
1	LT6210	200	700	20	6.5	4.5	6000			75	8.3	no	3	13.2	out	SOT23-6	10000	1	CFA	$1.20
1	LT1722	200	70	91	3.8	1.2	400	300	17	35	4.5	no	4.6	12.6		SO-8/SOT23-5	100	1	VFB	$0.88
1	**LT1468-2**	**200**	**30**	**760**	**5**	**0.6**	**75**	**40**	**9000**	**15**	**5**	**no**	**9**	**36**		**DFN-8/SO-8**	**300**	**2**	**VFB**	**$2.95**
1	LT1189	180	220	1000	30	1.25	3000	2000	14	21.3	16	yes	4	18		DIP-8/SO-8	10	10	VIDEO	$2.90
1	LT6200	165	50	140	0.95	2.2	1000	40000	200	60	23	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	1	VFB	$2.15
1	LT1809	160	300	27	16	5	2500	8000	80	45	17	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	1	VFB	$1.75
1	LT1225	150	400	90	7.5	1.5	1000	8000	20	24	9	no	5	36		SO-8/DIP-8	1000	5	VFB	$2.85
1	LT1203	150	300	85			30000	5000	1	4.5	14	yes	9	36		DIP-8/SO-8	100	1	VIDEO	$1.50
1	LT1221	150	250	90	6	2	1000	300	100	24	10.5	no	5	36		SO-8/DIP-8	1000	4	VFB	$3.30
1	LT1227	140	1100	50	3.2	1.7	10000			30	15	yes	4	36		DIP-8/SO-8	2000	1	CFA	$2.40
1	LT1223	100	1000	75	33	2.2	3000		5000	50	10	yes	5	36		SO-8/DIP-8	1800	1	CFA	$2.85
1	LT1812	100	750	30	8	1	1500	4000	3	40	3.6	yes	2.5	12.6		SO-8/SOT23-5/SOT23-6	100	1	VFB	$0.88
1	LT6205	100	600	25	9	4	4500	30000	133	25	5.6	no	3	12.6	out	SOT23-5	1000	1	VFB	$0.88
1	LT1228	100	500	45	20	1.4	5000	1000		30	15	no	4	36		DIP-8/SO-8	2000	1	CFA	$3.75
1	LT6202	100	25	78	1.9	0.75	500	7000	200	30	3.5	no	2.5	12.6	yes	SO-8/SOT23-5	1000	1	VFB	$1.45
1	LT1204	95	1000	70	7	1.5	14000			35	24	no	9	36		DIP-16/SOW-16	4000	1	VIDEO	$4.80
1	LT1191	90	450	110	25	4	5000	2500	45	50	38	yes	4	18		DIP-8/SO-8	30	1	VFB	$1.70
1	LT1468	90	22	760	5	0.6	75	40	9000	15	5	no	6	36		DFN-8/DIP-8/SO-8	300	1	VFB	$2.95
1	LT1803	83	100	350	21	2.5	2000	750	60	20	3	no	2.3	12.6	yes	SO-8/SOT23-5	1000	1	VFB	$1.30
1	LT1193	80	500	180	50	4	12000	3500	17	64	40	yes	4	18		DIP-8/SO-8	30	2	VIDEO	$2.90
1	LT1800	80	25	250	8.5	1	350	250	85	20	2	no	2.3	12.6	yes	SO-8/SOT23-5	1000	1	VFB	$1.30
1	LT6552	75	600	35	55	0.7	20000	50000		35	13.5	yes	3	12.6	out	DFN-8/SO-8	1000	2	VFB	$1.10
1	LT1028	75	15		0.85	1	40	90	30000	18.3	9.5	no	8	44		DIP-8/SO-8/SOW-16	300	2	VFB	$4.75
1	LT1363	70	1000	50	9	1	1500	2000	9	50	7.5	no	3	36		SO-8/DIP-8	All	1	VFB	$2.40
1	LT1994	70	65	90	3	2.5	2000	45000	100	45	18.5	yes	2.375	12.6	out	MS-8/DFN-8	25	1	DIFF	$1.65
1	LT1115	70	15		0.9	1.2	200	380	20000	18.3	11.5	no	8	44		DIP-8/SOW-16	4000	1	VFB	$2.90
1	LT1210	66	900		3	2	15000			1100	50	yes	8	36		DDPAK-7/SO-16/TO-220	10000	1	CFA	$6.40
1	LT1206	66	900		3.6	2	10000			250	30	yes	10	36		DDPAK-7/DIP-8/SO-8/TO-220	10000	1	CFA	$3.40
1	LT6220	60	20	300	10	0.8	350	150	100	20	1	no	2.2	12.6	yes	SO-8/SOT23-5	7000	1	VFB	$1.20
1	LT6233	60	17	170	1.9	0.43	500	3000	180	40	1.25	yes	3	12.6	out	SOT23-6	1000	1	VFB	$1.45
1	LT1037	60	15		2.5	0.4	25	35	20000	18.3	4.3	no	8	44		DIP-8/SO-8	100	5	VFB	$1.90
1	LT1360	50	800	60	9	0.9	1000	1000	9	26	4.8	no	3	36		SO-8/DIP-8	All	1	VFB	$2.20
1	LT1190	50	450	140	50	4	10000	2500	22	50	38	yes	4	18		DIP-8/SO-8	10	1	VFB	$1.70
1	LT1187	50	165	100	65	1.5	10000	2000	5.5	21.3	16	yes	4	18		DIP-8/SO-8	10	2	VIDEO	$2.90
1	LT1195	50	165	220	70	2	8000	2000	11	20	16	yes	4	18		DIP-8/SO-8	10	1	VFB	$1.70
1	LT1224	45	400	90	22	1.5	2000	8000		24	9	no	5	36		SO-8/DIP-8	1000	1	VFB	$2.85
1	LT1220	45	250	75	17	2	1000	300		24	10.5	no	5	36		SO-8/DIP-8	100000	1	VFB	$3.40
1	LT1256	40	300	65	2.7	1.5	5000			30	17	no	5	36		DIP-14/SO-14	100	1	CFA	$5.85
1	LT1251	40	300	65	2.7	1.5	5000	30000		30	17	no	5	36		DIP-14/SO-14	100	1	CFA	$5.85
1	LT1010	30	200		20		150000	250000	1000	150	9	no	4.5	44		DIP-8/T-5/DFN-10	330000	1	BUF	$2.40
1	LT1357	25	600	115	8	0.8	600	500	65	24	2.5	no	5	36		SO-8/DIP-8	All	1	VFB	$2.45
1	LT1995	24	1000	100	14		5000	600 Typ		70	8.5	no	2.5	36		MS-10/DFN-10	200	1	SGA	$1.89
1	LT6600-20	20			15		15000	95000			46	no	2.7	11	ss	SO-8	50	1	DIFF	$2.95
1	LT1128	20	6		0.85	1	40	90	30000	18.3	9.5	no	8	44		DIP-8/SO-8	500	1	VFB	$4.75
1	LTC6240	18	10		7	0.00056	175	0.001	1600	15	2.4	no	2.8	6	out	SOT-23/SO-8	200	1	VFB	$0.77

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH SPEED OP AMPS (GAIN BANDWIDTH PRODUCT ≥10MHz)

† Amplifiers Per Package	Part Number	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	A_{VOL} Typ 25°C (V/mV)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Av Min Stable Typ 25°C (V/V)	Type[2]	Price 1K Qty
1	LTC6240HV	18	10		7	0.00056	250	0.001	2700	15	3.3	no	2.8	11	out	SOT-23/SO-8	200	1	VFB	$1.40
1	LT6600-15	15			19		15000	90000			46	no	2.7	11	ss	SO-8	50	1	DIFF	$2.95
1	LT1122	14	80	340	14	0.002	600	0.075	500	19.1	10	no	20	40		DIP-8/SO-8	500	1	JFET	$2.45
1	LTC6910-2	13	16		9.1		15000			9.5	3	no	2.7	11	yes	SOT23-8	50	1	PGA	$1.10
1	LT1354	12	400	230	10	0.6	800	300	36	30	1.25	no	5	36		SO-8/DIP-8	All	1	VFB	$2.30
1	LTC6910-1	11	16		8.6		15000			9.5	3	no	2.7	11	yes	SOT23-8	50	1	PGA	$1.10
1	LTC6910-3	11	16		10.6		15000			9.5	3	no	2.7	11	yes	SOT23-8	50	1	PGA	$1.10
1	LT6600-10	10			14		13000	85000			39	no	2.7	11	ss	SO-8/DFN-12	50	1	DIFF	$2.95
1	LT1217	10	500	280	6.5	0.7	3000		177	50	2	yes	10	36		DIP-8/SO-8	5000	1	CFA	$3.20
1	LT1797	10	2.25	1600	20	0.15	1500	300	1000	25	1.5	no	2.1	12.6	yes	SOT23-5	10000	1	VFB	$1.00
2	LTC6420-20	1800	4500		2.2		2000			20	95	yes	2.85	3.5	out	3×4 QFN-20		10	DIFF	$5.17
2	LTC6421-20	1300	4500		2.2		2000			10	50	yes	2.85	3.5	out	3×4 QFN-20		10	DIFF	$4.77
2	LT1886	700	200	50	6	2	4000	4000	12	200	8.25	no	4	13.2		SO-8	1000	10	VFB	$2.80
2	LT1969	700	200	50	6	2	4000	4000	12	200	8.25	no	4	13.2		MS-10	1000	10	VFB	$2.95
2	LT6411	650	3300	6	8		10000			50	22	yes	4.5	12.6		QFN-16	12	1	VFB	$2.39
2	LT1819	400	2500	10	6	1.2	1500	8000	2.5	40	10	no	3.5	12.6		MS-8/SO-8	20	1	VFB	$1.60
2	LT1396	400	800	25	4.5	6	10000			80	6.5	no	3	12.6		DFN-8/MS-8/SO-8	1000	1	CFA	$1.95
2	LT1807	325	125	60	3.5	1.5	550	4000	220	35	13	no	2.5	12.6	yes	MS-8/SO-8	1000	1	VFB	$3.40
2	LT1398	300	800	25	4.5	6	10000			80	6.5	yes	3	12.6		SO-16	1000	1	CFA	$2.25
2	LT1253	250	250		3	1.5	15000		1.5	30	11	no	4	28		DIP-8/SO-8	100	1	CFA	$2.45
2	LT1816	220	1500	15	6	1.3	1500	8000	3	50	7.8	no	2.5	12.6		DFN-8/MS-8/MS-10/SO-8	10	1	VFB	$1.50
2	LT6231	215	70	50	1.1	1	350	10000	260	30	3.75	no	3	12.6	out	DFN-8/SO-8	1000	1	VFB	$1.95
2	LT6211	200	700	20	6.5	4.5	6000			75	8.3	no	3	13.2	out	DFN-10/MS-10	10000	1	CFA	$1.60
2	LT6300	200	600		8	0.8	5000	4000	76	500	13.5	yes	8	27		SSOP-16	30	10	VFB	$2.85
2	LT1794	200	600		8	0.8	5000	4000	12.5	500	13.5	yes	8	36		SOW-20/TSSOP-20	30	10	VFB	$4.95
2	LT1739	200	600		8	0.8	5000	4000	6.3	500	13.5	yes	8	27		DFN-12/TSSOP-20	30	10	VFB	$3.55
2	LT1723	200	70	91	3.8	1.2	400	300	17	35	4.5	no	4.6	12.6		MS-8/SO-8	100	1	VFB	$1.15
2	**LT1469-2**	**200**	**30**	**760**	**5**	**0.6**	**125**	**40**	**2000**	**15**	**5.2**	**no**	**9**	**36**		**DFN-12/SO-8**	**300**	**2**	**VFB**	**$4.95**
2	LT6201	165	50	140	0.95	2.2	1000	40000	200	60	23	no	2.5	12.6	yes	DFN-8/SO-8	1000	1	VFB	$3.65
2	LT1810	160	300	27	16	5	2500	8000	80	45	17	no	2.3	12.6	yes	MS-8/SO-8	1000	1	VFB	$2.65
2	LT1205	150	300	85			30000	5000	1	4.5	14	yes	9	36		SO-16	100	1	VIDEO	$2.60
2	LT1259	130	1600	75	3.6	1.3	12000		3.98	30	7.5	yes	4	36		DIP-14/SO-14	1000	1	CFA	$2.45
2	LT1229	100	700	45	3.2	1.4	10000			30	9.5	no	4	36		DIP-8/SO-8	2000	1	CFA	$3.75
2	LT1813	100	750	30	8	1	1500	4000	3	40	3.6	no	2.5	12.6		MS-8/SO-8/DFN-8	100	1	VFB	$0.99
2	LT1813HV	100	750	30	8	1	1500	4000	3	40	4	no	2.5	13.5		SO-8	100	1	VFB	$1.19
2	LT6203	100	25	78	1.9	0.75	500	7000	200	30	3.5	no	2.5	12.6	yes	DFN-8/MS-8/SO-8	1000	1	VFB	$2.45
2	LT6206	100	600	25	9	4	4500	30000	133	25	5.6	no	3	12.6	out	MS-8	1000	1	VFB	$1.05
2	LT1469	90	22	760	5	0.6	125	40	2000	15	5.2	no	6	36		DFN-12/DIP-8/SO-8	300	1	VFB	$4.95
2	LT1804	83	100	350	21	2.5	2000	750	60	20	3	no	2.3	12.6	yes	DFN-8/SO-8	1000	1	VFB	$1.95
2	LT1801	80	25	250	8.5	1	350	250	85	20	2	no	2.3	12.6	yes	DFN-8/MS-8/SO-8	1000	1	VFB	$1.95
2	LT1364	70	1000	60	9	1	1500	1000	9	50	7.2	no	3	36		SO-8/DIP-8	All	1	VFB	$3.70
2	LT1795	65	900		3.6	2	13000		2.51	500	34	yes	10	36		SOW-20/TSSOP-20	1000	1	CFA	$4.95
2	LT1207	66	900		3.6	2	10000			250	30	yes	10	36		SO-16	10000	1	CFA	$6.90
2	LT1126	65	11		2.7	0.3	70	20	17000	6.25	3.1	no	8	44		SO-8/DIP-8	15	10	VFB	$3.50
2	LT6221	60	20	300	10	0.8	350	150	100	20	1	no	2.2	12.6	yes	DFN-8/SO-8	7000	1	VFB	$1.85
2	LT6234	60	17	170	1.9	0.43	350	3000	180	40	1.25	no	3	12.6	out	DFN-8/SO-8	1000	1	VFB	$2.45
2	LT1497	59	900	50	3	2	10000		10	125	7	no	4	36		SO-8/SO-16	2000	1	CFA	$3.35
2	LT1361	50	800	60	9	0.9	1000	1000	9	26	4.8	no	5	36		SO-8/DIP-8	All	1	VFB	$3.40
2	LTC6244	50	35	535	8	0.00056	100	0.075	2500	25	7.4	no	2.8	6	out	DFN-8/MSOP-8	200	1	VFB	$1.65
2	LTC6244HV	50	35	535	8	0.00056	100	0.075	2500	25	7.4	no	2.8	10.5	out	DFN-8/MSOP-8	200	1	VFB	$2.35
2	LT1208	45	400	90	22	1.1	3000	8000	7	24	9	no	8	36		DIP-8/SO-8	All	1	VFB	$4.25
2	LT1632	45	27	400	12	1.6	1350	2200	2000	20	5.2	no	2.6	36	yes	DIP-8/SO-8	10	1	VFB	$3.05

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† Amplifiers Per Package	Part Number	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	A_{VOL} Typ 25°C (V/mV)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Av Min Stable Typ 25°C (V/V)	Type[2]	Price 1K Qty
2	LTC6912-1	30	16		15.1		22000			35 Typ	2.75	yes	2.7	10.5	yes	DFN-12/SSOP-16	50	1	PGA	$2.15
2	LTC6912-2	30	16		15.1		22000			35 Typ	2.75	yes	2.7	10.5	yes	DFN-12/SSOP-16	50	1	PGA	$2.15
2	LT1630	30	9.2	520	6	0.9	525	1000	3500	20	4.4	no	2.6	36	yes	DIP-8/SO-8	300	1	VFB	$2.96
2	LT1213	28	8.5	500	10	0.2	150	160	850	30	3.8	no	2.5	36	ss	DIP-8/SO-8	1000	1	VFB	$2.85
2	LT1358	25	600	115	8	0.8	600	500	65	24	2.5	no	5	36		SO-8/DIP-8	All	1	VFB	$3.90
2	LT1215	23	30	250	12	0.5	300	500	150	30	6.6	no	2.5	36	ss	DIP-8/SO-8	1000	1	VFB	$2.85
2	LT1678	20	6		3.9	0.3	100	20	3000	15	3.4	no	3	36	yes	SO-8	500	1	VFB	$2.50
2	LTC6241	18	10	900	7	0.00056	125	0.075	1600	15	2.2	no	2.8	6	out	DFN-8/SO-8	200	1	VFB	$1.25
2	LTC6241HV	18		900	7	0.00056	175	0.075	1600	15	2.2	no	2.8	11	out	DFN-8/SO-8	200	1	VFB	$2.20
2	LT1211	13	7	900	12	0.2	150	100	560	20	1.8	no	2.5	36	ss	DIP-8/SO-8	8000	1	VFB	$2.85
2	LT1124	12.5	4.5		2.7	0.3	70	20	17000	6.25	2.75	no	8	44		DIP-8/SO-8	15	1	VFB	$3.50
2	LT1355	12	400	230	10	0.6	800	300	36	25	1.25	no	5	36		SO-8/DIP-8	All	1	VFB	$3.80
2	LTC6911-1	11	16		9.9		22000			35 Typ	3.15	no	2.7	10.5	yes	MS-10	50	1	PGA	$2.00
2	LTC6911-2	11	16		10.9		22000				3.15	no	2.7	10.5	yes	MS-10	50	1	PGA	$2.00
2	LT1498	10.5	4.5		12	0.3	475	650	3800	12.5	2.2	no	2.2	36	yes	DIP-8/SO-8	30000	1	VFB	$2.96
3	LT6556	750	2100	6.5	11	3.5	67000			50	13	yes	4.5	12.6		SSOP-24/QFN-24	10	1	VIDEO	$2.75
3	LT6554	650	2500	6	20	3.5	35000	50000		50	10	yes	4	13.2		SSOP-16	12	1	VIDEO	$2.50
3	LT6553	650	2500	6	9	4	10000	50000		50	11	no	4	13.2		SSOP-16	10	2	VIDEO	$2.50
3	LT6555	650	2200	6.5	9	3.5	16000			50	12	yes	4.5	12.6		SSOP-24/QFN-24	10	2	VIDEO	$2.75
3	LT6557	500	2200	7	12	20	40000	70000 Typ		70	25	yes		7.5		SSOP-16/DFN-16		2	VIDEO	$2.50
3	LT1399	300	800	25	4.5	6	10000			80	6.5	yes	3	12.6		SSOPN-16/SO-16	1000	1	CFA	$2.45
3	LT1399HV	300	800	25	4.5	6	10000			80	7	yes	3	15.5		SO-16	1000	1	CFA	$3.05
3	LT6559	300	500	25	4.5	6	10000			80 Typ	6.1	yes	4	12		QFN-16			CFA	$0.95
3	LT1675	250	1100				40000	30000		50	14	yes	5.2	12.6		SSOPN-16	5	2	VIDEO	$1.95
3	LT1260	130	1600	75	3.6	1.3	12000		3.98	30	7.5	yes	4	36		DIP-16/SO-16	1000	1	CFA	$2.60
3	LT6550	110	340	35	12	8	35000	65000		45	11.5	no	3	12.6	out	MS-10	150	2	VIDEO	$1.75
4	LT1397	400	800	25	4.5	6	10000			80	6.5	no	3	12.6		DFN-14/SO-14/SSOPN-16	1000	1	CFA	$2.75
4	LT1254	250	250		3	1.5	15000		1.5	30	11	no	4	28		SO-14/DIP-14	100	1	CFA	$4.40
4	LT1817	220	1500	15	6	1.3	1500	8000	3	50	7	no	2.5	12.6		SO-14/SSOPN-16	10	1	VFB	$2.05
4	LT6232	215	70	50	1.1	1	350	10000	260	30	3.75	no	3	12.6	out	SSOP-16	1000	1	VFB	$3.30
4	LT6301	200	600		8	0.8	5000	4000	76	500	13.5	yes	8	27		TSSOP-28	30	10	VFB	$6.20
4	LT1724	200	70	91	3.8	1.2	400	300	17	35	4.5	no	4.6	12.6		SO-14	100	1	VFB	$2.19
4	LT6551	110	340	35	12	8	35000	65000		45	11.5	no	3	12.6	out	MS-10	150	2	VIDEO	$1.95
4	LT1814	100	750	30	8	1	1500	4000	3	40	3.6	no	2.5	12.5		SO-14/SSOPN-16	100	1	VFB	$1.95
4	LT1230	100	700	45	3.2	1.4	10000			30	9.5	no	4	36		DIP-14/SO-14	2000	1	CFA	$7.00
4	LT6207	100	600	25	9	4	4500	30000	133	25	5.6	no	3	12.6	out	SSOPN-16	1000	1	VFB	$1.55
4	LT6204	100	25	78	1.9	0.75	500	7000	200	30	3.5	no	2.5	12.6	yes	SO-14/SSOPN-16	1000	1	VFB	$4.50
4	LT1805	85	100	350	21	2.5	2000	750	60	20	3	no	2.3	12.6	yes	SO-14	1000	1	VFB	$3.50
4	LT1802	80	25	250	8.5	1	350	250	85	20	2	no	2.3	12.6	yes	SO-14	1000	1	VFB	$3.50
4	LT1365	70	1000	50	9	1	1500	2000	9	50	7.2	no	3	36		DIP-14/SO-16	All	1	VFB	$6.45
4	LT1127	65	11		2.7	0.3	90	20	17000	6.25	3.1	no	8	44		DIP-14/SOW-16	15	10	VFB	$5.70
4	LT6222	60	20	300	10	0.8	350	150	100	20	1	no	2.2	12.6	yes	SSOP-16	7000	1	VFB	$2.95
4	LT6235	60	17	170	1.9	0.43	350	3000	180	40	1.25	no	3	12.6	out	SSOP-16	1000	1	VFB	$4.15
4	LT1362	50	800	60	9	0.9	1000	1000	9	26	4.8	no	5	36		SO-16/DIP-14	All	1	VFB	$6.00
4	LT1209	45	400	90	22	1.1	3000	8000	7	24	9	no	8	36		DIP-14/SO-16	All	1	VFB	$6.65
4	LT1633	45	27	400	12	1.6	1350	2200	2000	20	5.2	no	2.6	36	yes	SO-14	10	1	VFB	$5.70
4	LT1631	30	9.2	520	6	0.9	525	1000	3500	20	4.4	no	2.6	36	yes	SO-14	300	1	VFB	$5.60
4	LT1214	28	8.5	500	10	0.2	275	200	250	30	3.8	no	2.5	36	ss	DIP-14/SO-16	1000	1	VFB	$5.10
4	LT1359	25	600	115	8	0.8	600	500	65	24	2.5	no	5	36		SO-16/SO-14/DIP-14	All	1	VFB	$6.50
4	LT1216	23	30	250	12	0.5	450	600	600	30	6.6	no	2.5	36	ss	DIP-14/SO-16	1000	1	VFB	$5.10
4	LT1679	20	6		3.9	0.3	100	20	3000	15	3.4	no	3	36	yes	SO-14	500	1	VFB	$3.85
4	LTC6242	18	10	900	7	0.00056	150	0.075	1600	15	2.2	no	2.8	6	out	DFN-16/SSOP-16	200	1	VFB	$2.25

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH SPEED OP AMPS (GAIN BANDWIDTH PRODUCT ≥10MHz)

† Amplifiers Per Package	Part Number	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	A_{VOL} Typ 25°C (V/mV)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Av Min Stable Typ 25°C (V/V)	Type[2]	Price 1K Qty
4	LTC6242HV	18	10	900	7	0.00056	200	0.075	1600	15	2.2	no	2.8	11	out	DFN-16/SSOP-16	200	1	VFB	$3.30
4	LT1212	13	7	900	12	0.2	275	125	560	20	1.8	no	2.5	36	ss	DIP-14/SO-16	8000	1	VFB	$5.10
4	LT1125	12.5	4.5		2.7	0.3	90	20	17000	6.25	2.75	no	8	44		DIP-14/SOW-16	15	1	VFB	$5.70
4	LT1356	12	400	230	10	0.6	800	300	36	25	1.25	no	5	36		SO-16/DIP-14	All	1	VFB	$6.45
4	LT1499	10.5	4.5		12	0.3	475	650	3800	12.5	2.2	no	2.2	36	yes	SO-14	30000	1	VFB	$5.60

† Primary Sort Column
†† Secondary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, SGA = Selectable Gain Difference Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifier, VGA = Variable Gain Amplifier

HIGH SPEED DIFFERENTIAL IN/OUT ADC DRIVERS

Part Number	† Number of Amplifiers	†† GBW Typ (MHz)	Slew Rate Typ (V/µs)	e_{NOISE} (1MHz) Typ (nV/√Hz)	HD2/HD3 Typ (dBc)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	I_{SUPPLY} Per Ampl Max (mA)	Package	Features	Price 1K Qty
LTC6406	1	3000	630	1.6	–85/–72@50MHz	2.7	3.5	22	3×3 QFN-16	3GHz Low Noise/Distortion ADC Driver	$3.44
LTC6405	1	2700	690	1.6	–91/–85@30MHz	4.5	5.5	23	3×3 QFN-16	2.7GHz, 5V, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	$3.44
LTC6401-8	1	2220	3400	3.2	–100/–87@70MHz	2.85	3.5	60	3×3 QFN-16	A_V=2.5V, Low Noise/Distortion ADC Driver, 140MHz IF	$2.95
LTC6400-8	1	2200	3810	1	–91/–81@140MHz	2.85	3.5	95	3×3 QFN-16	2.2GHz Low Noise/Distortion Differential ADC Driver for DC to 300MHz	$3.20
LTC6416	1	2000	3400	1.8	–88.5/–83@70MHz	2.7	3.9	51	3×2 DFN-10	16-Bit, 2GHz Differential ADC Buffer	$3.50
LTC6401-14	1	1950	3600	2.5	–101/–89@70MHz	2.85	3.5	39	3×3 QFN-16	2GHz Low Noise/Distortion Diff ADC Driver, A_V=5	$2.95
LTC6400-26	1	1900	6670	1.5	–81/–83@140MHz	2.85	3.5	102	3×3 QFN-16	A_V=20, Low Noise/Distortion ADC Driver, 140MHz IF	$3.20
LTC6400-14	1	1860	4800	2.5	–81/–71@140MHz	2.85	3.5	96	3×3 QFN-16	1.9GHz Low Noise/Low Distortion Differential ADC Driver for 300MHz IF	$3.20
LTC6400-20	1	1840	4500	2.1	–73/–83@10MHz	2.85	3.5	105	3×3 QFN-16	A_V=10, Low Noise/Distortion ADC Driver	$3.20
LTC6404-4	1	1700	1200	1.5	–100/–101@10MHz	2.85	3.5	39	3×3 QFN-16	1.7GHz Low Noise/Distortion Diff ADC Driver, A_V≥4	$3.44
LTC6401-26	1	1610	3300	1.5	–86/–81@70MHz	2.85	3.5	60	3×3 QFN-16	A_V=20, Low Noise/Distortion ADC Driver, 140MHz IF	$2.95
LTC6410-6	1	1400	1500	3	–80/–62@140MHz	2.8	5.25	130	3×3 QFN-16	A_V=2, Low Noise IF Amp, Configurable Input Impedance	$2.89
LTC6401-20	1	1250	4500	2.1	–95/–88@70MHz	2.85	3.5	62	3×3 QFN-16	A_V=10, Low Noise, Low Distortion ADC Driver	$2.95
LT5554	**1**	**1000**		**1.34**	**–80/–56@140MHz**	**4.75**	**5.25**	**190**	**5×5 QFN-32**	**Digitally Prog. Gain from 1.7dB to17.6dB, 0.125dB per Step**	**$4.40**
LTC6404-2	1	900	700	1.5	–98/–99@10MHz	2.7	5.25	39	3×3 QFN-16	0.9GHz Low Noise/Distortion Diff ADC Driver, A_V≥2	$3.44
LT1993-4	1	900	1100	2.15	–82/–80@50MHz	4	5.5	112	3×3 QFN-16	12dB Fixed Gain	$2.95
LT5514	1	850			–82/–72@50MHz	4.75	5.25	75	TSSOP-20	Ultralow Distortion with Digitally Controlled Gain from 10.5dB to 33dB, 1.5dB per Step	$5.20
LTC6412	**1**	**800**		**2.5**		**3**	**3.6**	**120**	**4×4 QFN-24**	**Differential In/Out, 31dB Range, Analog VGA**	**C.F.**
LTC6406	1	800	630	1.6	–80/–69@50MHz	2.7	3.5	22	3×3 QFN-16	3GHz GBP, Low Noise/Distortion Diff. ADC Driver	$3.44
LT1993-2	1	800	1100	3.5	–80/–77@50MHz	4	5.5	112	3×3 QFN-16	6dB Fixed Gain	$2.95
LT1993-10	1	700	1100	1.7	–80/–77@50MHz	4	5.5	112	3×3 QFN-16	20dB Fixed Gain	$2.95
LT6411	1	650	3300	8	–82/–77@30MHz	4.5	12.5	11	3×3 QFN-16	Gain Selectable 1, 2 or –1	$2.39
LT5524	1	540			–76/–72@50MHz	4.75	5.25	43	TSSOP-20	Low Power Digitally Controlled Gain from 4.5dB to 27dB, 1.5dB per Step	$4.40
LTC6404-1	1	500	450	1.5	–94/–92@10MHz	2.7	5.25	35.5	3×3 QFN-16	600MHz, Low Noise Op Amp/Driver	$3.44
LT6402-6	1	300	400	3.6(10MHz)	–83/–83@10MHz	4	5.5	37	3×3 QFN-16	Low Noise, Low Distortion, A_V=6dB	$2.39
LT6402-12	1	300	400	2.7(10MHz)	–80/–80@25MHz	4	5.5	37	3×3 QFN-16	Low Noise, Low Distortion, A_V=12dB	$2.39
LT6402-20	1	300	400	1.85 (10MHz)	–84/–84@10MHz	4	5.5	37	3×3 QFN-16	Low Noise, Low Distortion, A_V=20dB	$2.39
LTC6403-1	1	200	200	2.8	–106/–94@3MHz	2.7	5.25	11.8	3×3 QFN-16	Low Noise, Low Power Op Amp/Driver	$1.79
LT1994	1	70	65	3	–94/–108@1MHz	2.375	12.6	18.5	3×3 DFN-8/ MSOP-8	Adjustable Gain	$1.65
LT6600-20	1	20	n/a	15	–83/–83@2.5MHz	3	±5	46	SO-8	Integrated 20MHz Filter	$2.95
LT6600-15	1	15	n/a	15	–86/–90@1MHz	3	±5	39	SO-8	Integrated 15MHz Filter	$2.95
LT6600-10	1	10	n/a	14	–88/–97@1MHz	3	±5	39	SO-8/4×4 DFN-12	Integrated 10MHz Filter	$2.95
LT6600-5	1	5	n/a	16	–93/–96@1MHz	3	±5	31	SO-8/4×4 DFN-12	Integrated 5MHz Filter	$2.95
LT6600-2.5	1	2.5	n/a	25	–95/–88@1MHz	3	±5	30	SO-8	Integrated 2.5MHz Filter	$2.95
LTC6420-20	2	1800	4500	2.2	–80/–88@100MHz	2.85	3.5	95	3×4 QFN-20	Dual Matched Differential In/Out, A_V=10	$5.17
LTC6421-20	2	1300	4500	2.2	–74/–78@100MHz	2.85	3.5	50	3×4 QFN-20	Dual Matched Differential In/Out, A_V=10	$4.77

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	A_{VOL} Typ 25°C (V/mV)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
1	LT1395	400	800	25	4.5	6	10000		80	6.5	yes	3	12.6		SO-8/SOT23-5/SOT23-6	1000	CFA/100MHz 0.1dB Bandwidth	$1.30
1	LT1252	250	250		3	1.5	15000	1.5	30	18	no	4	28		DIP-8/SO-8	100	High Voltage Video Amp	$1.70
1	LT6210	200	700	20	6.5	4.5	6000		75	8.3	no	3	13.2	out	SOT23-6	10000	Adjustable Speed and Power CFA	$1.20
1	LT1227	140	1100	50	3.2	1.7	10000		30	15	yes	4	36		DIP-8/SO-8	2000	High Voltage CFA	$2.40
1	LT1223	100	1000	75	33	2.2	3000	5000	50	10	yes	5	36		SO-8/DIP-8	1800	High Slew Rate/High I_{OUT}	$2.85
1	LT1228	100	500	45	20	1.4	5000		30	15	no	4	36		DIP-8/SO-8	2000	CFA with Gain Control	$3.75
1	LT1206	66	900		3.6	2	10000		250	30	yes	10	36		DDPAK-7/DIP-8/SO-8/TO-220	10000	High I_{OUT}/Adj. Supply Current/C-Load	$3.40
1	LT1210	66	900		3	2	15000		1100	50	yes	8	36		DDPAK-7/SO-16/TO-220	10000	1A Output Current	$6.40
2	LT6411	650	3300	6	8		10000		50	22	yes	4.5	12.6		QFN-16	12	650MHz Diff ADC Driver/Dual Amp	$2.39
2	LT1396	400	800	25	4.5	6	10000		80	6.5	no	3	12.6		DFN-8/MS-8/SO-8	1000	Dual CFA/100MHz 0.1dB BW	$1.95
2	LT1398	300	800	25	4.5	6	10000		80	6.5	yes	3	12.6		SO-16	1000	0.1dB Gain Flatness to 150MHz	$2.25
2	LT1253	250	250		3	1.5	15000	1.5	30	11	no	4	28		DIP-8/SO-8	100	High Voltage Dual Video Amp	$2.45
2	LT6211	200	700	20	6.5	4.5	6000		75	8.3	no	3	13.2	out	DFN-10/MS-10	10000	Adjustable Speed and Power CFA	$1.60
2	LT1259	130	1600	75	3.6	1.3	12000	3.98	30	7.5	yes	4	36		DIP-14/SO-14	1000	Low Cost High Voltage CFA/Shutdown	$2.45
2	LT1229	100	700	45	3.2	1.4	10000		30	9.5	no	4	36		DIP-8/SO-8	2000	General Purpose High Voltage CFA	$3.75
2	LT1207	66	900		3.6	2	10000		250	30	yes	10	36		SO-16	10000	High Current/Prog. Supply/C-Load	$6.90
2	LT1795	65	900		3.6	2	13000	2.51	500	34	yes	10	36		SOW-20/TSSOP-20	1000	High I_{OUT}/High Speed	$4.95
2	LT1497	59	900	50	3	2	10000	10	125	7	no	4	36		SO-8/SO-16	2000	125mA Output CFA	$3.35
3	LT6558	550	2200	4			45000		60	24	no	3	7.5	ss	SSOP-16/ DFN-16		550MHz/ 2200V/us AV=1/ Single Supply Triple Video Amp w/ Input Bias Control	$2.50
3	LT1399	300	800	25	4.5	6	10000		80	6.5	yes	3	12.6		SSOPN-16/SO-16	1000	0.1dB Gain Flatness to 150MHz	$2.45
3	LT1399HV	300	800	25	4.5	6	10000		80	7	yes	3	15.5		SO-16	1000	0.1dB Gain Flatness to 150MHz	$3.05
3	LT6559	300	500	25	4.5	6	10000		80 Typ	6.1	yes	4	12		QFN-16	1000	Low Cost 5V/±5V 300MHz Triple Video Amplifier	$0.95
3	LT1260	130	1600	75	3.6	1.3	12000	3.98	30	7.5	yes	4	36		DIP-16/SO-16	1000	Low Cost High Voltage CFA/Shutdown	$2.60
4	LT1397	400	800	25	4.5	6	10000		80	6.5	no	3	12.6		DFN-14/SO-14/SSOPN-16	1000	Quad CFA/100MHz 0.1dB BW	$2.75
4	LT1254	250	250		3	1.5	15000	1.5	30	11	no	4	28		SO-14/DIP-14	100	High Voltage Quad Video Amp	$4.40
4	LT1230	100	700	45	3.2	1.4	10000		30	9.5	no	4	36		DIP-14/SO-14	2000	General Purpose High Voltage CFA	$7.00

† Primary Sort Column
†† Secondary Sort Column

Note:
1. ss = Input common mode range includes negative supply rail

HIGH SPEED LOW POWER OP AMPS (I_S ≤ 8mA/AMP)

† Amplifiers Per Package	Part Number	†† I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	I_{OUT} Min 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Features	Price 1K Qty
1	LT6220	1	no	60	20	300	10	0.8	350	20	2.2	12.6	yes	SO-8/SOT23-5	7000	VFB	Precision/Low Power/RRIO	$1.20
1	LT6233	1.25	yes	60	17	170	1.9	0.43	500	40	3	12.6	out	SOT23-6	1000	VFB	Ultralow Noise/Low Power/High Speed	$1.45
1	LT6233-10	1.25	yes	375	115		1.9	0.43	500	40	3	12.6	out	SOT23-6	1000	VFB	Low Noise/Low Power/A_V>10	$1.90
1	LT1800	2	no	80	25	250	8.5	1	350	20	2.3	12.6	yes	SO-8/SOT23-5	1000	VFB	High Speed/Power/Precision/RRIO	$1.30
1	LT1803	3	no	83	100	350	21	2.5	2000	20	2.3	12.6	yes	SO-8/SOT23-5	1000	VFB	RRIO/High Speed	$1.30
1	LT6202	3.5	no	100	25	78	1.9	0.75	500	30	2.5	12.6	yes	SO-8/SOT23-5	1000	VFB	Low Noise/Low Power/RRIO	$1.45
1	LT1812	3.6	yes	100	750	30	8	1	1500	40	2.5	12.6		SO-8/SOT23-5/SOT23-6	100	VFB	High Speed/Power/Low Noise	$0.88
1	LT6230	3.75	yes	215	70	50	1.1	1	500	30	3	12.6	out	SOT23-6	1000	VFB	Ultralow Noise/Low Power/High Speed	$1.25
1	LT6230-10	3.75	yes	1450	320		1.1	1	500	30	3	12.6	out	SOT23-6	2000	VFB	Ultralow Noise/Low Power/A_V>10	$1.50
1	LT1037	4.3	no	60	15		2.5	0.4	25	18.3	8	44		DIP-8/SO-8	100	VFB	Extremely Low Noise	$1.90
1	LT1722	4.5	no	200	70	91	3.8	1.2	400	35	4.6	12.6		SO-8/SOT23-5	100	VFB	Low Noise at Video Speed/Precision	$0.88
1	LT1360	4.8	no	50	800	60	9	0.9	1000	26	3	36		SO-8/DIP-8	All	VFB	High Speed/Precision/C-Load	$2.20
1	**LT1468-2**	**5**	**no**	**200**	**30**	**760**	**5**	**0.6**	**75**	**15**	**9**	**36**		**3×3 DFN-8/SO-8**	**300**	**VFB**	**16-Bit Accuracy, 760ns to 0.01% Settling/A_V>2**	**$2.95**
1	LT1468	5	no	90	22	760	5	0.6	75	15	6	36		3×3 DFN-8/DIP-8/SO-8	300	VFB	16-Bit Accuracy/760ns to 0.01% Settling	$2.95

† Primary Sort Column
†† Secondary Sort Column

HIGH SPEED LOW POWER OP AMPS ($I_S \leq 8mA/AMP$)

† Amplifiers Per Package	Part Number	†† I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	I_{OUT} Min 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Features	Price 1K Qty
1	LT6205	5.6	no	100	600	25	9	4	4500	25	3	12.6	out	SOT23-5	1000	VFB	3V 100MHz Single Supply Video Amp	$0.88
1	LT1395	6.5	yes	400	800	25	4.5	6	10000	80	3	12.6		SO-8/SOT23-5/SOT23-6	1000	CFA	CFA/100MHz 0.1dB Bandwidth	$1.30
1	LT1363	7.5	no	70	1000	50	9	1	1500	50	3	36		SO-8/DIP-8	All	VFB	High Speed/Precision/C-Load	$2.40
1	LT1815	7.8	no	220	1500	15	6	1.3	1500	50	4	12.6		SO-8/SOT23-5/SOT23-6	10	VFB	High SR VFB with Prog. Supply Current	$0.88
2	LT6221	1	no	60	20	300	10	0.8	350	20	2.2	12.6	yes	DFN-8/SO-8	7000	VFB	Precision/Low Power/RRIO	$1.85
2	LT6234	1.25	no	60	17	170	1.9	0.43	350	40	3	12.6	out	DFN-8/SO-8	1000	VFB	Ultralow Noise/Low Power	$2.45
2	LT1801	2	no	80	25	250	8.5	1	350	20	2.3	12.6	yes	DFN-8/MS-8/SO-8	1000	VFB	High Speed/Power/Precision/RRIO	$1.95
2	LT1804	3	no	83	100	350	21	2.5	2000	20	2.3	12.6	yes	DFN-8/SO-8	1000	VFB	RRIO/High Speed	$1.95
2	LT1126	3.1	no	65	11		2.7	0.3	70	6.25	8	44		SO-8/DIP-8	15	VFB	Low Noise/65MHz GBW/Precision	$3.50
2	LT6203	3.5	no	100	25	78	1.9	0.75	500	30	2.5	12.6	yes	DFN-8/MS-8/SO-8	1000	VFB	Low Noise/Low Power/RRIO	$2.45
2	LT1813	3.6	no	100	750	30	8	1	1500	40	2.5	12.6		MS-8/SO-8/DFN-8	100	VFB	High Speed/Power/Low Noise	$0.99
2	LT6231	3.75	no	215	70	50	1.1	1	350	30	3	12.6	out	DFN-8/SO-8	1000	VFB	Ultralow Noise/Low Power/High Speed	$1.95
2	LT1813HV	4	no	100	750	30	8	1	1500	40	2.5	13.5		SO-8	100	VFB	High Speed/Power/ V_S up to 13.5V	$1.19
2	LT1723	4.5	no	200	70	91	3.8	1.2	400	35	4.6	12.6		MS-8/SO-8	100	VFB	Low Noise at Video Speed/Precision	$1.15
2	LT1361	4.8	no	50	800	60	9	0.9	1000	26	5	36		SO-8/DIP-8	All	VFB	High Speed/Precision/C-Load	$3.40
2	**LT1469-2**	**5.2**	**no**	**200**	**30**	**760**	**5**	**0.6**	**125**	**15**	**9**	**36**		**4×4 DFN-12/SO-8**	**300**	**VFB**	**16-Bit Accuracy, 760ns to 0.01% Settling/A_V>2**	**$4.95**
2	LT1469	5.2	no	90	22	760	5	0.6	125	15	6	36		4×4 DFN-12/DIP-8/SO-8	300	VFB	16-Bit Accuracy/760ns to 0.01% Settling	$4.95
2	LT6206	5.6	no	100	600	25	9	4	4500	25	3	12.6	out	MS-8	1000	VFB	3V 100MHz Single Supply Video Amp	$1.05
2	LT1396	6.5	no	400	800	25	4.5	6	10000	80	3	12.6		DFN-8/MS-8/SO-8	1000	CFA	Dual CFA/100MHz 0.1dB BW	$1.95
2	LT1398	6.5	yes	300	800	25	4.5	6	10000	80	3	12.6		SO-16	1000	CFA	0.1dB Gain Flatness to 150MHz	$2.25
2	LT1497	7	no	59	900	50	3	2	10000	125	4	36		SO-8/SO-16	2000	CFA	125mA Output CFA	$3.35
2	LT1364	7.2	no	70	1000	60	9	1	1500	50	3	36		SO-8/DIP-8	All	VFB	High Speed/Precision/C-Load	$3.70
2	LTC6244	7.4	no	50	35	535	8	0.00056	100	25	2.8	6	out	DFN-8/MS-8	200	VFB	Dual 50MHz/Low Noise/RRO/CMOS	$1.65
2	LTC6244HV	7.4	no	50	35	535	8	0.00056	100	25	2.8	10.5	out	DFN-8/MS-8	200	VFB	Dual 50MHz/Low Noise/RRO/CMOS	$2.35
2	LT1259	7.5	yes	130	1600	75	3.6	1.3	12000	30	4	36		DIP-14/SO-14	1000	CFA	Low Cost High Voltage CFA/Shutdown	$2.45
2	LT1816	7.8	no	220	1500	15	6	1.3	1500	50	2.5	12.6		DFN-8/MS-8/MS-10/SO-8	10	VFB	High SR VFB with Prog Supply Current	$1.50
3	LT6559	6.1	yes	300	500	25	4.5	6	10000	80 Typ	4	12		QFN-16	1000	CFA	Triple 5V/±5V 300MHz/3×3 QFN	$0.95
3	LT1399	6.5	yes	300	800	25	4.5	6	10000	80	3	12.6		SSOPN-16/SO-16	1000	CFA	0.1dB Gain Flatness to 150MHz	$2.45
3	LT1399HV	7	yes	300	800	25	4.5	6	10000	80	3	15.5		SO-16	1000	CFA	0.1dB Gain Flatness to 150MHZ	$3.05
3	LT1260	7.5	yes	130	1600	75	3.6	1.3	12000	30	4	36		DIP-16/SO-16	1000	CFA	Low Cost High Voltage CFA/Shutdown	$2.60
4	LT6222	1	no	60	20	300	10	0.8	350	20	2.2	12.6	yes	SSOP-16	7000	VFB	Precision/Low Power/RRIO	$2.95
4	LT6235	1.25	no	60	17	170	1.9	0.43	350	40	3	12.6	out	SSOP-16	1000	VFB	Ultralow Noise/Low Power	$4.15
4	LT1802	2	no	80	25	250	8.5	1	350	20	2.3	12.6	yes	SO-14	1000	VFB	High Speed/Power/Precision/RRIO	$3.50
4	LT1805	3	no	85	100	350	21	2.5	2000	20	2.3	12.6	yes	SO-14	1000	VFB	RRIO/High Speed	$3.50
4	LT1127	3.1	no	65	11		2.7	0.3	90	6.25	8	44		DIP-14/SOW-16	15	VFB	Low Noise/65MHz GBW/Precision	$5.70
4	LT6204	3.5	no	100	25	78	1.9	0.75	500	30	2.5	12.6	yes	SO-14/SSOPN-16	1000	VFB	Low Noise/Low Power/RRIO	$4.50
4	LT1814	3.6	no	100	750	30	8	1	1500	40	2.5	12.5		SO-14/SSOPN-16	100	VFB	High Speed/Power/Low Offset	$1.95
4	LT6232	3.75	no	215	70	50	1.1	1	350	30	3	12.6	out	SSOP-16	1000	VFB	Ultralow Noise/Low Power/High Speed	$3.30
4	LT1724	4.5	no	200	70	91	3.8	1.2	400	35	4.6	12.6		SO-14	100	VFB	Low Noise at Video Speed/Precision	$2.19
4	LT1362	4.8	no	50	800	60	9	0.9	1000	26	5	36		SO-16/DIP-14	All	VFB	High Speed/Precision/C-Load	$6.00
4	LT6207	5.6	no	100	600	25	9	4	4500	25	3	12.6	out	SSOPN-16	1000	VFB	3V 100MHz Single Supply Video Amp	$1.55
4	LT1397	6.5	no	400	800	25	4.5	6	10000	80	3	12.6		DFN-14/SO-14/SSOPN-16	1000	CFA	Quad CFA/100MHz 0.1dB BW	$2.75
4	LT1817	7	no	220	1500	15	6	1.3	1500	50	2.5	12.6		SO-14/SSOPN-16	10	VFB	High Slew Rate VFB	$2.05
4	LT1365	7.2	no	70	1000	50	9	1	1500	50	3	36		DIP-14/SO-16	All	VFB	High Speed/Precision/C-Load	$6.45

† Primary Sort Column
†† Secondary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifier, VGA = Variable Gain Amplifier

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH SPEED RAIL-TO-RAIL INPUT/OUTPUT OP AMPS (GAIN BANDWIDTH PRODUCT ≥ 10MHz)

† Amplifiers Per Package	Part Number	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time to 0.1% Typ 25°C (ns)	V_{OS} Max 25°C (µV)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	V_{OH}[1] Typ 25°C (V)	V_{OL}[1] Typ 25°C (V)	Package	C-Load Stable (pF)	Features	Price 1K Qty
1	LT6200-10	1600	450		1000	200	0.95	60	23	yes	2.5	12.6	0.07	0.012	SO-8/SOT23-6	1000	Low Noise/RRIO/High Speed/A_V>10	$1.50
1	LT6200-5	800	250		1000	200	0.95	60	23	yes	2.5	12.6	0.07	0.012	SO-8/SOT23-6	1000	Low Noise/RRIO/High Speed/A_V>5	$1.50
1	LT1806	325	125	60	550	220	3.5	35	13	yes	2.5	12.6	0.015	0.008	SO-8/SOT23-6	1000	High Speed/Precision/Low Noise	$2.10
1	LT6200	165	50	140	1000	200	0.95	60	23	yes	2.5	12.6	0.07	0.012	SO-8/SOT23-6	1000	Low Noise/RRIO/High Speed	$2.15
1	LT1809	160	300	27	2500	80	16	45	17	yes	2.5	12.6	0.02	0.012	SO-8/SOT23-6	1000	Low Distortion/High Speed/Low Noise	$1.75
1	LT6202	100	25	78	500	200	1.9	30	3.5	no	2.5	12.6	0.04	0.005	SO-8/SOT23-5	1000	Low Noise/Low Power/RRIO	$1.45
1	LT1803	83	100	350	2000	60	21	20	3	no	2.3	12.6	0.017	0.017	SO-8/SOT23-5	1000	RRIO/High Speed	$1.30
1	LT1800	80	25	250	350	85	8.5	20	2	no	2.3	12.6	0.016	0.012	SO-8/SOT23-5	1000	High Speed/Power/Precision/RRIO	$1.30
1	LT6220	60	20	300	350	100	10	20	1	no	2.2	12.6	0.005	0.005	SO-8/SOT23-5	7000	Precision/Low Power/RRIO	$1.20
1	LTC6910-2	13	16		15000		9.1	9.5	3	no	2.7	11	0.01	0.012	SOT23-8	50	3-Bit Gain Control/0 to 64 V/V	$1.10
1	LTC6910-1	11	16		15000		8.6	9.5	3	no	2.7	11	0.01	0.012	SOT23-8	50	3-Bit Gain Control/0 to 100 V/V	$1.10
1	LTC6910-3	11	16		15000		10.6	9.5	3	no	2.7	11	0.01	0.012	SOT23-8	50	3-Bit Gain Control/0 to 7 V/V	$1.10
1	LT1797	10	2.25	1600	1500	1000	20	25	1.5	no	2.1	12.6	0.05	0.008	SOT23-5	10000	RRIO/Low Noise/C-Load Stable	$1.00
2	LT1807	325	125	60	550	220	3.5	35	13	no	2.5	12.6	0.015	0.008	MS-8/SO-8	1000	High Speed/Precision/Low Noise	$3.40
2	LT6201	165	50	140	1000	200	0.95	60	23	no	2.5	12.6	0.07	0.012	DFN-8/SO-8	1000	Low Noise/RRIO/High Speed	$3.65
2	LT1810	160	300	27	2500	80	16	45	17	no	2.3	12.6	0.02	0.012	MS-8/SO-8	1000	Low Distortion/High Speed/Low Noise	$2.65
2	LT6203	100	25	78	500	200	1.9	30	3.5	no	2.5	12.6	0.04	0.005	DFN-8/MS-8/SO-8	1000	Low Noise/Low Power/RRIO	$2.45
2	LT1804	83	100	350	2000	60	21	20	3	no	2.3	12.6	0.017	0.017	DFN-8/SO-8	1000	RRIO/High Speed	$1.95
2	LT1801	80	25	250	350	85	8.5	20	2	no	2.3	12.6	0.018	0.016	DFN-8/MS-8/SO-8	1000	High Speed/Power/Precision/RRIO	$1.95
2	LT6221	60	20	300	350	100	10	20	1	no	2.2	12.6	0.005	0.005	DFN-8/SO-8	7000	Precision/Low Power/RRIO	$1.85
2	LT1632	45	27	400	1350	2000	12	20	5.2	no	2.6	36	0.016	0.015	DIP-8/SO-8	10	Low Distortion/High Speed/RRIO	$3.05
2	LTC6912-1	30	16		22000		15.1	35 Typ	2.75	yes	2.7	10.5	0.01	0.012	DFN-12/SSOP-16	50	Dual PGA/Serial SPI/A_V=0 to 100V/V	$2.15
2	LTC6912-2	30	16		22000		15.1	35 Typ	2.75	yes	2.7	10.5	0.01	0.012	DFN-12/SSOP-16	50	Dual PGA/Serial SPI/A_V=1 to 64V/V	$2.15
2	LT1630	30	9.2	520	525	3500	6	20	4.4	no	2.6	36	0.015	0.014	DIP-8/SO-8	300	Low Distortion/High Speed/RRIO	$2.96
2	LT1678	20	6		100	3000	3.9	15	3.4	no	3	36	0.075	0.08	SO-8	500	Very Low 1/f Corner Frequency	$2.50
2	LTC6911-1	11	16		22000		9.9	35 Typ	3.15	no	2.7	10.5	0.01	0.012	MS-10	50	Dual/3-Bit Gain Control/0 to 100 V/V	$2.00
2	LTC6911-2	11	16		22000		10.9		3.15	no	2.7	10.5	0.01	0.012	MS-10	50	Dual/3-Bit Gain Control/0 to 64 V/V	$2.00
2	LT1498	10.5	4.5		475	3800	12	12.5	2.2	no	2.2	36	0.0025	0.014	DIP-8/SO-8	30000	Stable with Large C-Load	$2.96
4	LT6204	100	25	78	500	200	1.9	30	3.5	no	2.5	12.6	0.04	0.005	SO-14/SSOPN-16	1000	Low Noise/Low Power/RRIO	$4.50
4	LT1805	85	100	350	2000	60	21	20	3	no	2.3	12.6	0.017	0.017	SO-14	1000	RRIO/High Speed	$3.50
4	LT1802	80	25	250	350	85	8.5	20	2	no	2.3	12.6	0.018	0.016	SO-14	1000	High Speed/Power/Precision/RRIO	$3.50
4	LT6222	60	20	300	350	100	10	20	1	no	2.2	12.6	0.005	0.005	SSOP-16	7000	Precision/Low Power/RRIO	$2.95
4	LT1633	45	27	400	1350	2000	12	20	5.2	no	2.6	36	0.016	0.015	SO-14	10	Low Distortion/High Speed/RRIO	$5.70
4	LT1631	30	9.2	520	525	3500	6	20	4.4	no	2.6	36	0.015	0.014	SO-14	300	Low Distortion/High Speed/RRIO	$5.60
4	LT1679	20	6		100	3000	3.9	15	3.4	no	3	36	0.075	0.08	SO-14	500	Very Low 1/f Corner Frequency	$3.85
4	LT1499	10.5	4.5		475	3800	12	12.5	2.2	no	2.2	36	0.0025	0.014	SO-14	30000	Stable with Large C-Load	$5.60

† Primary Sort Column
†† Secondary Sort Column

Note:

1. V_{OH} = How close the output swings to the postive rail; V_{OL} = How close the output swings to the negative rail

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

VIDEO RGB AMPLIFIERS

Part Number	Configuration	† BW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time Typ 25°C (ns) to 0.1%	Diff Gain (%)	Diff Phase (Deg)	e_n Typ (nV/√Hz)	i_n Typ (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown (yes/no)	Supply Voltage Min (V)	Supply Voltage Max (V)	Package	C-Load Stable (pF)	Type	Unity Gain Stable	Important Features	Price 1K Qty
LT6556	Triple A_V=1	750	2100	6.5	0.056	0.028			13	yes	4.5	12.6	SSOP-24/QFN-24	12	CFA	A_V=1	with 2:1 Input MUX	$2.75
LT6555	Triple A_V=2	650	2200	6.5	0.022	0.033			12	yes	4.5	12.6	SSOP-24/QFN-24	12	CFA	A_V=2	with 2:1 Input MUX	$2.75
LT6554	Triple A_V=1	650	2500	6	0.022	0.06	20	3.5	10	no	4.5	13.2	SSOP-16	12	CFA	A_V=1	Fixed Gain of 1	$2.50
LT6553	Triple A_V=2	650	2500	6	0.022	0.06	9	5	11	yes	4.5	13.2	SSOP-16	10	CFA	A_V=2	Fixed Gain of 2	$2.50
LT6558	Triple A_V=1	550	2200	4	0.02	0.02			25	yes	3	7.5	SSOP-16/DFN	12	VFB	A_V=1	Fixed Gain of 1	$2.50
LT6557	Triple A_V=2	500	2200	4	0.02	0.05			25	yes	3	7.5	SSOP-16/DFN	12	VFB	A_V=2	Fixed Gain of 2	$2.50
LT6559	Triple A_V=1,2,–1	300	800	25	0.13	0.1	4.5	6	6.1	yes	4	12.6	QFN-16	1000	CFA	A_V=1	0.1dB Gain Flatness: 150MHz	$0.95
LT1399	Triple A_V=1,2,–1	300	800	25	0.13	0.1	4.5	6	6.5	yes	4	12.6	SO-16/SSOP-16	1000	CFA	A_V=1	0.1dB Gain Flatness: 150MHz	$2.45
LT1260	Triple	130	1600	75	0.016	0.075	3.6	1.3	7.5	yes	4	36	DIP-16/SO-16	1000	CFA	A_V=1	±12V Operation	$2.60
LT6550	Triple A_V=2	110	340	20 (to 3%)	0.05	0.05	12	8	10	no	3	12.6	MSOP-10	300	VFB	A_V=2	Operates on 3.3V	$1.75
LT6551	Quad A_V=2	110	340	20 (to 3%)	0.05	0.05	12	8	10	no	3	12.6	MSOP-10	300	VFB	A_V=2	Operates on 3.3V	$1.95

† Primary Sort Column

VIDEO MULTIPLEXERS

Part Number	Configuration	Cable Driver Amplifiers On Chip	† BW Typ 25°C MHz	0.1 dB Gain Flatness	Slew Min 0-70°C (V/µs)	Settling Time (ns) to 0.1%	Diff Gain %	Diff Phase Deg	I_{SUPPLY} Max 25°C (mA)	Shutdown (yes/no)	Supply Voltage Min (V)	Supply Voltage Max (V)	Package	Unity Gain Stable	Important Features	Price 1K Qty
LT6556	3×2:1	yes 3	750	120	1200	6.5	0.056	0.028	13	yes	4.5	12.6	SSOP-24/QFN	yes	RGB Amplifier, 2:1 MUX, A_V=1V/V	$2.75
LT6555	3×2:1	yes 3	650	120	1600	6.5	0.03	0.02	12	yes	4.5	12.6	SSOP-24/QFN	yes	RGB Amplifier, 2:1 MUX, A_V=2V/V	$2.75
LT1675	3×2:1	yes 3	250	70	1100		0.07	0.05	14	yes	5.2	12.6	SSOP-16	yes	CFA has Fixed Gain=2	$3.25
LT1675-1	2:1	yes 1	250	70	1100		0.07	0.05	14	yes	5.2	12.6	SO-8/MSOP-8	yes	CFA has Fixed Gain=2	$1.95
LT1203	2:1	no	150	30	180	30	0.02	0.02	14	yes	9	36	DIP-8/SO-8	yes	150MHz 2:1 Video Multiplexer	$1.50
LT1205	2×2:1 or 4:1	no	150	30	180	30	0.02	0.02	14	yes	9	36	SO-16	yes	Dual of LT1203, 2:1 Video Mux	$2.60
LT1204	4:1	yes 1	95	66	500	70	0.04	0.06	24	yes	9	36	DIP-16/SO(W)-16	yes	4-Input Video Mux with 75MHz CFA	$4.80
LT1251	2:1 fader	no	40	1212	150	65	0.02	0.02	7.5	no	5	30	DIP-14/SO-14	yes	DC Controlled Video Fader	$5.85
LT1256	2:1 fader	no	40	1212	150	65	0.02	0.02	7.5	no	5	30	DIP-14/SO-14	yes	DC Controlled Video Fader	$5.85

† Primary Sort Column

VIDEO DIFFERENCE AMPLIFIERS

Part Number	BW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	Settle Time Typ 25°C (ns) to 0.1%	Diff Gain (%)	Diff Phase (Deg)	e_n Typ (nV/√Hz)	i_n Typ (pA/√Hz)	I_{SUPPLY} Max 25°C (mA)	Shutdown (yes/no)	Supply Voltage Min (V)	Supply Voltage Max (V)	Package	Unity Gain Stable	Important Features	Price 1K Qty
LT1193	9 (@A_V=10)		180	0.2	0.08	50	4	40	yes	4.75	18	DIP-8/SO-8	A_V=2	Color Video Difference Amp	$2.90
LT6552	75 (@A_V=2)	600	30	0.2	0.15	55	0.7	13.5	yes	3	12.6	SO-8/DFN	A_V=2	Low Power Video Difference Amp	$1.10
LT1189	35 (@A_V=10)	220	1000	0.6	0.75	30	1.25	16	yes	4.75	18	DIP-8/SO-8	A_V=10	Low Power Video Difference Amp	$2.90
LT1194	35 (@A_V=10)	500	200	0.2	0.08	15	4	40	yes	4.75	18	DIP-8/SO-8	A_V=10	Color Video Difference Amp	$2.90
LT1995	32 (@A_V=1)	1000	110	0.06	0.15	14		8.5	no	5	36	MSOP-10/DFN	A_V=1	Gain-Selectable Difference Amp	$1.89
LT1187	5.7 (@A_V=10)	165	100	0.6	0.8	65	1.5	16	yes	4.75	18	DIP-8/SO-8	A_V=2	Low Power Video Difference Amp	$2.90

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Channels	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	V_{OH}[1] Typ 25°C (V)	V_{OL}[1] Typ 25°C (V)	Package	Features	Price 1K Qty
1	LT1636	225	5	8	0.2	0.07	84	2000	52	0.055	yes	2.6	44	0.015	0.002	DFN-8/DIP-8/MS-8/SO-8	Over-The-Top Micropower Op Amp	$1.45
1	LT6105	300	0.5 Typ	25000	0.1		100			0.3	no	2.85	36			DFN-8/MS-8	Precision Extended Input Current Sense	$0.99
1	LT1637	350	3	50	1	0.35	88	800	27	0.25	yes	1.8	44	0.025	0.003	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.45
1	LT1672	375	2	1	0.012	0.005	90	500	185	0.002	no	2.1	36	0.035	0.05	DIP-8/MS-8/SO-8	Ultralow Power/Over-The-Top Inputs	$1.65
1	LT1494	375	2	1	0.0027	0.001	100	500	185	0.0015	no	2.1	36	0.035	0.05	DIP-8/MS-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$1.65
1	LT1783	800	5	80	1.25	0.42	90	1500	20	0.3	yes	2.2	18	0.06	0.003	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1782	800	5	15	0.2	0.07	90	1500	50	0.055	yes	2.2	18	0.06	0.003	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1784	3500	15	500	2.5	2.1	84	1000	25	0.75	yes	2	18	0.07	0.004	SOT23-5/SOT23-6	Low Power/RRIO/Shutdown	$1.00
1	LT1990	5200	22		0.1	0.55	70		1000	0.18	no	2.4	36	0.21	0.21	SO-8	±250V Diff Amp and Integrated Resistors	$1.35
2	LT1673	375	2	1	0.012	0.005	90	500	185	0.002	no	2.1	36	0.035	0.05	DIP-8/SO-8	Ultralow Power/Over-The-Top Inputs	$2.45
2	LT1495	375	2	1	0.0027	0.001	100	500	185	0.0015	no	2.1	36	0.035	0.05	DIP-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$2.45
2	LT1490A	500	4	8	0.18	0.06	84	1500	50	0.055	no	2	44	0.022	0.003	DFN-8/DIP-8/MS-8/SO-8	RRIO/Over-The-Top	$1.75
2	LT1638	600	6	50	1.2	0.38	88	1500	20	0.23	no	2.2	44	0.02	0.003	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.95
4	LT1674	375	2	1	0.012	0.005	90	500	185	0.002	no	2.1	36	0.035	0.05	DIP-14/SO-14	Ultralow Power/Over-The-Top Inputs	$3.25
4	LT1496	375	2	1	0.0027	0.001	100	500	185	0.0015	no	2.1	36	0.035	0.05	DIP-14/SO-14	Ultralow Power/Rail-to-Rail/Precision	$3.25
4	LT1639	600	6	50	1.075	0.38	88	1500	20	0.23	no	2.2	44	0.02	0.003	DIP-14/SO-14	High Voltage/Over-The-Top/Low Power	$3.30
4	LT1491A	1000	4	8	0.18	0.06	84	1500	50	0.055	no	2	44	0.022	0.003	DIP-14/SO-14/DFN-16	RRIO/Over-The-Top	$3.00

† Primary Sort Column
†† Secondary Sort Column

Note:

1. V_{OH} = How close the output swings to the postive rail; V_{OL} = How close the output swings to the negative rail

LOW POWER OP AMPS (I_{SUPPLY} ≤ 1mA/AMP)

† Amplifiers Per Package	Part Number	†† I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
1	LT6003	0.001	no	500	5	0.09	0.002	0.0008	88	150	325	1.6	16	yes	SOT23-5/2×2 DFN-4	2000	Low Power, 1.8V Precision Op Amp	$0.72
1	LT1494	0.0015	no	375	2	1	0.0027	0.001	100	500	185	2.1	36	yes	DIP-8/MS-8/SO-8	8000	Ultralow Power/Rail-to-Rail/Precision	$1.65
1	LT1672	0.002	no	375	2	1	0.012	0.005	90	500	185	2.1	36	yes	DIP-8/MS-8/SO-8	10000	Ultralow Power/Over-The-Top Inputs	$1.65
1	LTC1541	0.01	no	1000			0.012					2.5	12.6	ss	MS-8/SO-8/3×3 DFN-8		Micropower Amp/Comparator and Ref	$1.50
1	LTC1542	0.01	no	1000			0.012	8	0.5	1000		2.5	12.6	out	MS-8/SO-8/3×3 DFN-8	1000	Micropower Amp/Comparator and Ref	$1.20
1	LT6000	0.016	no	750	5	5	0.05	15	82	65	75	1.8	18	yes	2×3 DFN-6	800	Single 1.8V/13µA Precision RRIO	$0.80
1	LT1636	0.055	yes	225	5	8	0.2	0.07	84	2000	52	2.6	44	yes	3×3 DFN-8/DIP-8/MS-8/SO-8	10000	Over-The-Top Micropower Op Amp	$1.45
1	LT1782	0.055	yes	800	5	15	0.2	0.07	90	1500	50	2.2	18	yes	SOT23-5/SOT23-6	10000	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1077	0.06	no	40	1.6	9	0.23	0.08	97	1000	27	2.2	44	ss	DIP-8/SO-8	1500	High Precision Micropower Single Supply	$1.60
1	LT1789-1	0.095	no	100	0.7	40	0.06	0.026	100		48	2.2	36	out	SO-8	600	Micropower/Precision IA/Single Supply	$3.20
1	LT1789-10	0.095	no	160	0.7	40	0.025	0.026	98		52	2.2	36	out	SO-8	2000	Micropower/Precision IA/A_V>10	$3.20
1	LT1991	0.11	no	50	1	5	0.56	0.12	80		46	2.4	40	yes	MS-10/3×3 DFN-10	100	Precision/Gain Select Range –13 to 14	$1.39
1	LT1996	0.11	no	50	1	5	0.56	0.12	80		18	2.7	36	yes	MS-10/3×3 DFN-10		Precision/A_V=9 to 117	$1.39
1	LT1787	0.12	no	75	2							2.5	36	ss	SO-8/MS-8		Precision/High Side Current Sense	$2.05
1	LT1787HV	0.12	no	75	2							2.5	60	ss	SO-8/MS-8		Precision/Current Sense/60V V_{IN}	$2.90
1	LT1101	0.13	no	160	2	8	0.37	0.1	100		43	1.8	44		DIP-8/SOW-16	30000	Micropower Single Supply IA/A_V=10 or 100	$4.75
1	LT6100	0.13	no	300	3	10000	0.15	0.05	100			4.1	48	ss	3×3 DFN-8/MS-8		Precision/Gain Selectable Current Sense	$1.18
1	LT6010	0.15	yes	35	0.8	0.11	0.33	0.09	107	2000	14	2.7	40	out	3×3 DFN-8/SO-8	500	Micropower/Precision/RRO	$1.10
1	LT6013	0.165	no	35	0.8	0.25	1.6	0.2	107	2000	9.5	2.7	40	out	3×3 DFN-8/SO-8	500	Micropower/Precision/RRO/A_V>5	$1.10
1	LTC2054	0.175	no	3	0.03	0.15	0.5	0.5	120	10000		2.7	7	out	SOT23-5	50	Micropower Zero-Drift/3V/5V Operation	$1.00
1	LT1990	0.18	no	5200	22		0.1	0.55	70		1000	2.4	36	yes	SO-8	3000	±250V Diff Amp and Integrated Resistors	$1.35
1	LT1635	0.2	no	1300	7	4.5	0.175	0.045	94	450	50	1.1	14	out	DIP-8/SO-8	1000	Op Amp and Reference/LM10 Pinout	$1.75
1	LTC2054HV	0.21	no	5	0.03	0.15	0.5	0.5	120	10000		2.7	12	out	SOT23-5	50	Micropower Zero-Drift ±5V Operation	$1.25

† Primary Sort Column
†† Secondary Sort Column

LOW POWER OP AMPS (I_{SUPPLY} ≤ 1mA/AMP)

† Amplifiers Per Package	Part Number	†† I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
1	LT1637	0.25	yes	350	3	50	1	0.35	88	800	27	1.8	44	yes	3×3 DFN-8/DIP-8/MS-8/SO-8	2000	High Voltage/Over-The-Top/Low Power	$1.45
1	LTC1049	0.3	no	10	0.1	0.05	0.8	0.8	110	31622	80	4.75	18	out	DIP-8/SO-8	50	Zero-Drift No External Capacitors	$2.15
1	LT1783	0.3	yes	800	5	80	1.25	0.42	90	1500	20	2.2	18	yes	SOT23-5/SOT23-6	3000	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1351	0.33	yes	600	8	50	3	200	80	80	14	5	36		SO-8/MS-8/DIP-8	All	High Speed/Precision/C-Load	$2.45
1	LT1218	0.42	yes	90	3	70	0.3	0.1	92	1000	33	2	36	yes	SO-8/DIP-8	1000	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1218L	0.42	yes	90	3	70	0.3	0.1	92	1000	33	2	16	yes	SO-8/DIP-8	1000	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LT1219	0.42	yes	90	3	70	0.15	0.05	92	1000	33	2	36	yes	SO-8/DIP-8	100000	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1219L	0.42	yes	90	3	70	0.15	0.05	92	1000	33	2	16	yes	SO-8/DIP-8	100000	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LTC6101	0.45	no	450	1 Typ		0.2					4	60	ss	SOT-23-5/MS-8		High Voltage/High Side Current Sense	$1.04
1	LTC6101HV	0.45	no	300	1 Typ		0.2					5	100	ss	SOT-23-5/MS-8		High Voltage/High Side Current Sense	$1.30
1	LT1012	0.5	no	25	0.6	0.1	1	0.2	114	2000	14	2.4	40		DIP-8/SO-8	1000	Low V_{OS} Stable with Any C-Load	$1.60
1	LT1006	0.52	no	50	1.3	15	0.6	0.4	100	2500	22	4	44	ss	DIP-8/SO-8	10	Single Supply Precision Op Amp	$1.55
1	LT1168	0.53	no	40	0.3	0.25	0.4	0.5	126		10	4.6	40		DIP-8/SO-8	1000	Precision IA/Low Bias Current/Low Power	$3.70
1	LT1097	0.56	no	50	1.2	0.25	0.7	0.2	115	2500	14	2	40		DIP-8/SO-8	10000	Low Cost/C-Load Stable	$1.75
1	LT1008	0.6	no	120	1.5	0.1	1	0.2	114	2000	14	4	40		DIP-8/SO-8	600	Low Bias Current/External Compensation	$2.95
1	LTC6104	0.73	no	450	1.5 Typ	170	0.14		110			4	60		MS-8		High Voltage/ High Side/ Bi-Directional Current Sense Amplifier	$1.38
1	LT1784	0.75	yes	3500	15	500	2.5	2.1	84	1000	25	2	18	yes	SOT23-5/SOT23-6	1000	Low Power/RRIO/Shutdown	$1.00
1	LT6220	1	no	350	5	150	60	20	85	100	10	2.2	12.6	yes	SO-8/SOT23-5	7000	Precision/Low Power/RRIO	$1.20
1	LTC1992	1	no	2500	0.65 Typ	0.25	4	0.75	69	10	18	2.4	12	out	MS-8	10000	Fully Differential In/Out	$1.65
1	LTC1992-1	1	no	2500	0.65 Typ	0.25	4	0.75	55		45	2.7	12	out	MS-8	10000	Fully Differential In/Out/A_V=1	$3.95
1	LTC1992-2	1	no	2500	0.65 Typ	0.25	4	0.75	55		45	2.7	12	out	MS-8	10000	Fully Differential In/Out/A_V=2	$3.95
1	LTC1992-5	1	no	2500	0.65 Typ	0.25	4	0.75	55		45	2.7	12	out	MS-8	10000	Fully Differential In/Out/A_V=5	$3.95
1	LTC1992-10	1	no	2500	0.65 Typ	0.25	4	0.75	55		45	2.7	12	out	MS-8	10000	Fully Differential In/Out/A_V=10	$3.95
2	LT6004	0.001	yes	500	5	0.09	0.002	0.0008		150	325	1.6	16	yes	3×3 DFN-8/MS-8	2000	Dual 1.6V/1µA Precision Rail-to-Rail Input and Output Op Amp	$1.10
2	LT1495	0.0015	no	375	2	1	0.0027	0.001	100	500	185	2.1	36	yes	DIP-8/SO-8	1000	Ultralow Power/Rail-to-Rail/Precision	$2.45
2	LT1673	0.002	no	375	2	1	0.012	0.005	90	500	185	2.1	36	yes	DIP-8/SO-8	10000	Ultralow Power/Over-The-Top Inputs	$2.45
2	LT6001	0.016	yes	600	5	5	0.05	0.015	82	65	75	1.8	18	yes	MS-8/3×3 DFN-10	800	1.8V/13µA Precision RRIO	$1.25
2	LT1178	0.017	no	70	3	5	0.085	0.04	97	2500	49	2	44	ss	DIP-8/SO-8/SOW-16	2500	Precision/Micropower/Single Supply	$2.95
2	LT2178	0.018	no	70	1.8	5	0.06	0.025	93	700	49	2.2	44	ss	SO-8	200	Micropower Single Supply	$3.50
2	LT1462	0.045	no	800	20	0.002	0.175	0.13	76	600	76	10	40		DIP-8/SO-8	1000	JFET with Excellent C-Load Stability	$2.50
2	LT1078	0.05	no	70	1.8	8	0.2	0.07	97	1000	28	2.2	44	ss	DIP-8/SO-8	1800	Precision/Micropower/Single Supply	$2.70
2	LT2078	0.05	no	70	1.8	8	0.2	0.07	95	1000	28	2.3	44	ss	SO-8	300	Micropower/Single Supply/Std Pinout	$3.50
2	LT1490A	0.055	no	500	4	8	0.18	0.06	84	1500	50	2	44	yes	3×3 DFN-8/DIP-8/MS-8/SO-8	300	RRIO/Over-The-Top	$1.75
2	LTC6078	0.072	yes	25	0.7	0.001	0.75	0.05	95	3162	18	2.7	6	yes	MS-8/3×3 DFN-10	200	Micropower/Precision/RRIO	$1.49
2	LT1466L	0.075	no	390	7	14	0.12	0.04	88	1500	45	2	16	yes	DIP-8/SO-8	300	Precision Rail-to-Rail Micropower	$4.15
2	LTC6084	0.13	no	750	5	0.001 Typ	1.5	0.5	64	2000	31	2.5	5.5	yes	3×3 DFN-8/MS-8	300	Precision/1.5MHz/RRIO/Low Bias Current	$0.91
2	LTC2055	0.15	no	3	0.03	0.15	0.5	0.5	120	10000		2.7	7	out	3×3 DFN-8/MS-8	50	Micropower Zero-Drift/3V/5V Operation	$1.60
2	LT6011	0.15	no	60	0.8	0.3	0.33	0.09	107	2000	14	2.4	40	out	3×3 DFN-8/SO-8/MS-8	500	Micropower/Precision/RRO	$1.65
2	LT6014	0.165	no	60	0.8	0.4	1.6	0.2	107	2000	9.5	2.7	40	out	3×3 DFN-8/SO-8	500	Micropower/Precision/RRO/A_V>5	$1.65
2	LTC2055HV	0.18	no	5	0.03	0.15	0.5	0.5	120	10000		2.7	12	out	3×3 DFN-8/MS-8	50	Micropower Zero-Drift±5V Operation	$2.00
2	LT1464	0.2	no	800	20	0.002	1	0.9	76	1000	24	10	40		DIP-8/SO-8	1000	JFET with Excellent C-Load Stability	$2.50
2	LT1638	0.23	no	600	6	50	1.2	0.38	88	1500	20	2.2	44	yes	3×3 DFN-8/DIP-8/MS-8/SO-8	6000	High Voltage/Over-The-Top/Low Power	$1.95
2	LTC1047	0.275	no	10	0.05	0.03	0.2	0.2	110	31622		4.75	16	out	DIP-8/SOW-16	50	Zero-Drift No External Capacitors	$4.85
2	LT1352	0.33	no	600	8	50	3	200	80	80	14	5	36		SO-8	All	High Speed/Precision/C-Load	$3.80
2	LT1112	0.4	no	60	0.5	0.25	0.75	0.3	120	5000	14	2	40		DIP-8/SO-8	All	Low Power/Matching Specs/C-Load Stable	$2.35
2	LTC6081	0.425	yes	70	0.8	0.001	3.6	1	100	1000	13	2.7	5.5	yes	3×3 DFN-10/MS-8	200	Precision/RRIO/Picoamp Input Current	$1.74
2	LT1413	0.45	no	150	2	15	0.95	0.3	100	1400	23	3	22	ss	DIP-8/SO-8	100	Single Supply/Optimized for 5V	$2.00
2	LTC6103	0.45	no	450	1.5 Typ	170	0.12		110			4	60		MS-8		Dual High Voltage/ High Side Current Sense Amplifier	$1.66
2	LT1013	0.5	no	150	2	20	0.8	0.4	100	8000	22	4	44	ss	SO-8/DIP-8	100	Single Supply Precision Op Amps	$1.90
2	LT1366	0.52	no	475	6	35	0.4	0.13	95	2000	29	2	36	yes	DIP-8/SO-8	1000	C-Load Stable up to 1000pF	$3.50

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
2	LT1368	0.52	no	475	6	35	0.16	0.065	95	2000	29	2	36	yes	DIP-8/SO-8	100000	Stable with 100nF C-Load	$3.45
2	LT1492	0.55	no	180	3	100	4.5	1.8	86	350	16.5	2.1	36	ss	SO-8/DIP-8	150	Single Supply/Low Power/Precision	$3.45
2	LT1024	0.6	no	50	1.5	0.12	1	0.2	112	2000	14	4	40		DIP-14	1000	Low V_{OS}/Low Power	$4.75
2	LT1884	0.9	no	50	0.8	0.4	2	0.9	108	1600	9.5	2.4	40	out	DIP-8/SO-8	500	Picoamp Input Current/Precision	$2.75
2	LT1881	0.9	no	50	0.8	0.2	1	0.35	106	1600	14	2.4	40	out	DIP-8/SO-8	1000	Picoamp Input Current/Precision	$2.75
2	LT6221	1	no	350	5	150	60	20	85	100	10	2.2	12.6	yes	3×3 DFN-8/SO-8	7000	Precision/Low Power/RRIO	$1.85
4	LT6005	0.001	no	650	5	0.09	0.002	0.0008		150	325	1.6	16	yes	5×3 DFN-16/TSSOP-16	2000	Low Power, 1.8V Precision	$1.75
4	LT1496	0.0015	no	375	2	1	0.0027	0.001	100	500	185	2.1	36	yes	DIP-14/SO-14	1000	Ultralow Power/Precision/RRIO	$3.25
4	LT1674	0.002	no	375	2	1	0.012	0.005	90	500	185	2.1	36	yes	DIP-14/SO-14	10000	Ultralow Power/Over-The-Top Inputs	$3.25
4	LT6002	0.016	no	750	5	5	0.05	0.015	82	65	75	1.8	18	yes	SSOP-16/5×3 DFN-16	800	Quad 1.8V/13µA Precision RRIO	$2.00
4	LT1179	0.017	no	100	0.3	5	0.085	0.04	97	2500	49	2	44	ss	DIP-14/SOW-16	2500	Precision/Micropower/Single Supply	$3.70
4	LT2179	0.018	no	100	3	5	0.06	0.025	93	700	49	2.2	44	ss	SO-14	200	Micropower Single Supply	$6.30
4	LT1463	0.045	no	800	20	0.002	0.125	0.13	74	600	76	5	40		DIP-14/SO-14	1000	JFET with Excellent C-Load Stability	$4.30
4	LT1079	0.05	no	100	1.8	8	0.2	0.07	97	1000	28	2.2	44	ss	DIP-14/SOW-16	1800	Precision/Micropower/Single Supply	$3.40
4	LT2079	0.05	no	110	3	8	0.2	0.07	95	1000	28	2.3	44	ss	SO-14	300	Micropower Single Supply	$5.95
4	LT1491A	0.055	no	1000	4	8	0.18	0.06	84	1500	50	2	44	yes	DIP-14/SO-14/5×3 DFN-16	300	RRIO/Over-The-Top	$3.00
4	LTC6079	0.072	no	25	1.4	0.001	0.75	0.05	95	3162	18	2.7	6	yes	5×3 DFN-16/SSOP-16	200	Micropower/Precision/RRIO	$2.53
4	LT1467L	0.075	no	390	7	14	0.12	0.04	88	1500	45	2	16	yes	SO-16	300	Precision Micropower Rail-to-Rail	$7.20
4	LTC6085	0.13	no	750	5	0.001 Typ	1.5	0.5	64	2000	31	2.5	5.5	Yes	5×3 DFN-16/SSOP-16	300	Precision/1.5MHz/RRIO/Low Bias Current	$1.40
4	LT6012	0.15	no	60	0.8	0.3	0.33	0.09	107	2000	14	2.4	40	out	SO-14/SSOP-16	500	Micropower/Precision/RRO	$2.95
4	LT1465	0.2	no	800	20	0.002	1	0.9	74	900	24	5	40		DIP-14/SO-14	1000	JFET with Excellent C-Load Stability	$4.30
4	LT1639	0.23	no	600	6	50	1.075	0.38	88	1500	20	2.2	44	yes	DIP-14/SO-14	6000	High Voltage/Over-The-Top/Low Power	$3.30
4	LT1353	0.33	no	600	8	50	3	200	80	80	14	5	36		SO-14	All	High Speed/Precision/C-Load	$6.70
4	LT1114	0.4	no	60	1.1	0.25	0.75	0.3	120	5000	14	2	40		DIP-14/SO-16	All	Low Power/Matching Specs/C-Load Stable	$4.40
4	LTC6082	0.425	yes	70	0.8	0.001	3.6	1	100	1000	13	2.7	5.5	yes	5×3 DFN-16/SSOP-16	200	Precision/RRIO/Picoamp Input Current	$2.97
4	LT1014	0.5	no	150	2	20	0.8	0.4	100	8000	22	4	44	ss	DIP-14/SOW-16	100	Single Supply Precision Op Amp	$3.45
4	LT1367	0.52	no	800	6	35	0.4	0.13	93	2000	29	2	36	yes	SO-14	1000	C-Load Stable up to 1000pF	$6.10
4	LT1369	0.52	no	800	6	35	0.16	0.065	93	2000	29	2	36	yes	SO-14	100000	Stable with 100nF C-Load	$6.10
4	LT1493	0.55	no	130	3	100	4.5	1.8	86	350	16.5	2.1	36	ss	SO-16	150	Single Supply/Low Power/Precision	$6.40
4	LT1885	0.9	no	80	0.8	0.9	2	0.9	108	1600	9.5	2.4	40	out	SO-14	500	Picoamp Input Current/Precision	$4.85
4	LT1882	0.9	no	80	0.8	0.5	1	0.35	106	1600	14	2.4	40	out	SO-14	1000	Picoamp Input Current/Precision	$4.85
4	LT6222	1	no	350	5	150	60	20	85	100	10	2.2	12.6	yes	SSOP-16	7000	Precision/Low Power/RRIO	$2.95

† Primary Sort Column
†† Secondary Sort Column

Note:

1. ss = Input common mode range includes negative supply rail

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

SINGLE SUPPLY OP AMPS

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
1	LTC6406	3500	1 Typ	6000 Typ	3000	630	50		1.6	38	22	yes	2.7	3.5	ss	3×3 QFN-16	3GHz Differential ADC Driver	$3.44
1	LTC6405	15000	18 Typ	8000 Typ	2700	690	50	31.6	1.6		23	no	4.5	5.5	ss	3×3 QFN-16	2.7GHz, 5V, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	$3.44
1	LTC6400-8	5000	85 Typ		2200	3810	39		1	20	95	no	2.85	3.5		3×3 QFN-16	2.2GHz Low Noise, Low Distortion Differential ADC Driver for DC-300MHz	$3.20
1	LTC6401-8	4000	3 Typ		2200	3400	36		3.2	10	60	yes	2.85	3.5		3×3 QFN-16	8dB Fixed Gain/Differential ADC Driver/140MHz IF	$3.20
1	LTC6416	5000		10000	2000	3400	83		1.8	20	51	no	2.7	3.9	ss	3×2 DFN-10	16-Bit, 2GHz Differential ADC Buffer	$3.50
1	LTC6401-14	3000	1.2 Typ		1950	3600	40		2.9	10	60	yes	2.85	3.5		3×3 DFN-16	2GHz Differential ADC Driver, A_V=5	$2.95
1	LTC6400-26	2000	1 Typ		1900	6670	50		1.5	20	102	yes	2.85	3.5		3×3 QFN-16	26dB Fixed Gain/Differential ADC Driver/140MHz IF	$3.20
1	LTC6400-14	3000	85 Typ		1860	4800	40		2.5	20	96	no	2.85	3.5		3×3 QFN-16	1.9GHz Low Noise, Low Distortion Differential ADC Driver for 300MHz IF	$3.20
1	LTC6400-20	2000	1.2 Typ		1840	4500	45		2.1	20	105	yes	2.85	3.5		3×3 QFN-16	1.8GHz Differential ADC Driver	$3.20
1	LTC6404-4	2000	1 Typ	–23000	1700	1200	60 Typ	32	1.5	40	39	yes	2.75	5.25	out	3×3 DFN-16	1.7GHz/Low Noise and Distortion	$3.44
1	LTC6401-26	2500	1 Typ		1610	3300	50		1.5	10	60	yes	2.85	3.5		3×3 QFN-16	26dB Fixed Gain/Differential ADC Driver/140MHz IF	$2.95
1	LT6200-10	1000	24	40000	1600	450	68	200	0.95	60	23	yes	2.5	12.6	yes	SO-8/SOT23-6	Low Noise/RRIO/High Speed/A_V>10	$1.50
1	LT6230-10	500	3	10000	1450	320	95	260	1.1	30	3.75	yes	3	12.6	out	SOT23-6	Ultralow Noise/Low Power/A_V>10	$1.50
1	LTC6410-6	2000	–0.3 Typ		1400	1500	45		3	42	130	yes	2.8	5.25		3×3 QFN-16	Low Noise/Differential IF Amp/Configurable Input Impedance	$2.89
1	LTC6401-20	2000	1.4 Typ		1250	4500			0.91	10	62		2.85	3.5		3×3 QFN-16	1.3GHz Low Noise, Low Distortion Differential ADC Driver	$2.95
1	LTC6404-2	2000	1 Typ	–23000	900	700	60 Typ	32	1.5	40	39	yes	2.75	5.25	out	3×3 QFN-16	0.9GHz/Low Noise and Distortion	$3.44
1	LT5514			20000	850					33	75	yes	4.75	5.25	ss	TSSOP-20	Low Distortion Differential, Digitally Controlled PGA	$5.20
1	**LTC6412**				**800**				**2.5**	**17**	**120**	**yes**	**3**	**3.6**		**4×4 QFN-24**	**Fully Differential 31dB Range Control Analog VGA**	**C.F.**
1	LT6200-5	1000	24	40000	800	250	68	200	0.95	60	23	yes	2.5	12.6	yes	SO-8/SOT23-6	Low Noise/RRIO/High Speed/A_V>5	$1.50
1	LT5524			30000	540					24	43	yes	4.75	5.25	ss	TSSOP-20	Low Distortion Differential, Digitally Controlled PGA	$4.40
1	LTC6404-1	2000	1 Typ	–23000	500	450	60 Typ	32	1.5	40	35.5	yes	2.7	5.25	out	3×3 QFN-16	500MHz/Low Noise, Differential I/O Amp/Driver	$3.44
1	LT6233-10	500	3	3000	375	115	90	180	1.9	40	1.25	yes	3	12.6	out	SOT23-6	Low Noise/Low Power/A_V>10	$1.90
1	LT1806	550	5	4000	325	125	79	220	3.5	35	13	yes	2.5	12.6	yes	SO-8/SOT23-6	High Speed/Precision/Low Noise	$2.10
1	LT6402-6	6500	30 Typ		300	400	42		3.8	30	37	yes	4	5.5	ss	3×3 QFN-16	Low Distortion and Noise Diff. ADC Driver	$2.39
1	LT6402-12	6500	30 Typ		300	400	42		2.7	30	37	yes	4	5.5	ss	3×3 QFN-16	Low Distortion and Noise Diff. ADC Driver	$2.39
1	LT6402-20	6500	30 Typ		300	1000	45		1.85	30	37	yes	4	5.5	ss	3×3 QFN-16	Low Distortion and Noise Diff. ADC Driver	$2.39
1	LT6230	500	3	10000	215	70	95	260	1.1	30	3.75	yes	3	12.6	out	SOT23-6	Ultralow Noise/Low Power/High Speed	$1.25
1	LTC6403-1	1500	1 Typ	25000	200	200	50	32	2.8	30	11.8	yes	2.7	5.25	out	3×3 QFN-16	Low Noise/Low Distortion Diff ADC Driver	$1.79
1	LT6210	6000			200	700	46		6.5	75	8.3	no	3	13.2	out	SOT23-6	Adjustable Speed and Power CFA	$1.20
1	LT6200	1000	24	40000	165	50	68	200	0.95	60	23	yes	2.5	12.6	yes	SO-8/SOT23-6	Low Noise/RRIO/High Speed	$2.15
1	LT1809	2500	25	8000	160	300	66	80	16	45	17	yes	2.5	12.6	yes	SO-8/SOT23-6	Low Distortion/High Speed/Low Noise	$1.75
1	LT6202	500	24	7000	100	25	65	200	1.9	30	3.5	no	2.5	12.6	yes	SO-8/SOT23-5	Low Noise/Low Power/RRIO	$1.45
1	LT6205	4500	18	30000	100	600	78	133	9	25	5.6	no	3	12.6	out	SOT23-5	3V 100MHz Single Supply Video Amp	$0.88
1	LT1800	350	5	250	80	25	85	85	8.5	20	2	no	2.3	12.6	yes	SO-8/SOT23-5	High Speed/Power/Precision/RRIO	$1.30
1	LT1803	2000	35	750	80	100	75	60	21	20	3	no	2.3	12.6	yes	SO-8/SOT23-5	RRIO/High Speed	$1.30
1	LT6552	20000	12.5 Typ	50000	75	600	58		55	35	13.5	yes	3	12.6	out	DFN-8/SO-8	Low Power Video Difference Amp	$1.10
1	LT1994	2000	13.3 Typ	45000	70	65	65	100	3	45	18.5	yes	2.375	12.6	out	MS-8/DFN-8	Low Noise/Low Distortion/Diff. In/Out	$1.65
1	LT6220	350	5	150	60	20	85	100	10	20	1	no	2.2	12.6	yes	SO-8/SOT23-5	Precision/Low Power/RRIO	$1.20
1	LT6233	500	3	3000	60	17	90	180	1.9	40	1.25	yes	3	12.6	out	SOT23-6	Ultralow Noise/Low Power/High Speed	$1.45
1	LT6600-20	15000	42 Typ	95000	20		66		15		46	no	2.7	11	ss	SO-8	Low Noise Diff Amp w/20MHz LP Filter	$2.95
1	LTC6240	175	2.5	0.001	18	10	80	1600	7	15	2.4	no	2.8	6	out	SOT-23/SO-8	18MHz/Low Noise/RRO/CMOS	$0.77
1	LTC6240HV	250	2.5	0.001	18	10	80	2700	7	15	3.3	no	2.8	11	out	SOT-23/SO-8	18MHz/Low Noise/RRO/CMOS	$1.40
1	LT6600-15	15000	42 Typ	90000	15		66		19		46	no	2.7	11	ss	SO-8	Low Noise Diff Amp w/15MHz LP Filter	$2.95
1	LTC6910-2	15000			13	16	55		9.1	9.5	3	no	2.7	11	yes	SOT23-8	3-Bit Gain Control/0 to 64 V/V	$1.10
1	LTC6910-1	15000			11	16	55		8.6	9.5	3	no	2.7	11	yes	SOT23-8	3-Bit Gain Control/0 to 100 V/V	$1.10

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
1	LTC6910-3	15000			11	16	55		10.6	9.5	3	no	2.7	11	yes	SOT23-8	3-Bit Gain Control/0 to 7 V/V	$1.10
1	LT1797	1500	20	300	10	2.25	88	1000	20	25	1.5	no	2.1	12.6	yes	SOT23-5	RRIO/Low Noise/C-Load Stable	$1.00
1	LT6600-10	13000	35 Typ	85000	10		61		14		39	no	2.7	11	ss	SO-8/DFN-12	Low Noise Diff Amp w/10MHz LP Filter	$2.95
1	LT1677	60	1.5	20	7.2	2.5	109	19000	3.2	25	3.5	no	2.5	44	yes	DIP-8/SO-8	High Loop Gain/Low Noise/RRIO	$2.15
1	LT6600-5	25000	28 Typ	70000	5		61 Typ		16		31	no	2.7	11	ss	SO-8	Low Noise Diff Amp w/5MHz LP Filter	$2.95
1	LTC1992	2500	0.65 Typ	0.25	4	0.75	69	10	18	10	1	no	2.4	12	out	MS-8	Fully Differential In/Out	$1.65
1	LTC1992-1	2500	0.65 Typ	0.25	4	0.75	55		45	10	1	no	2.7	12	out	MS-8	Fully Differential In/Out/A_V=1	$3.95
1	LTC1992-2	2500	0.65 Typ	0.25	4	0.75	55		45	10	1	no	2.7	12	out	MS-8	Fully Differential In/Out/A_V=2	$3.95
1	LTC1992-5	2500	0.65 Typ	0.25	4	0.75	55		45	10	1	no	2.7	12	out	MS-8	Fully Differential In/Out/A_V=5	$3.95
1	LTC1992-10	2500	0.65 Typ	0.25	4	0.75	55		45	10	1	no	2.7	12	out	MS-8	Fully Differential In/Out/A_V=10	$3.95
1	LTC2050	3	0.03	0.075	3	2	120	10000		2.4	1.2	yes	2.7	7	out	SO-8/SOT23-5/SOT23-6	Zero-Drift Op Amp 3V/5V Operation	$1.15
1	LTC2050HV	3	0.03	0.05	3	2	120	10000		2.4	1.5	yes	2.7	12	out	SO-8/SOT23-5/SOT23-6	Zero-Drift 3V/5V/±5V Operation	$1.45
1	LTC1050	5	0.05	0.03	2.5	4	114	100000	90	6 Typ	1.5	no	4.75	18	out	DIP-8/DIP-14/SO-8	Zero-Drift No External Capacitors	$2.15
1	LTC1150	10	0.05	0.1	2.5	3	110	1000000		1.35	1.5	yes	4.75	32	ss	DIP-8/SO-8	Auto Zero Amplifier Works on 30V+	$3.70
1	LT1784	3500	15	500	2.5	2.1	84	1000	25	20	0.75	yes	2	18	yes	SOT23-5/SOT23-6	Low Power/RRIO/Shutdown	$1.00
1	LT6600-2.5	13000	26 Typ	35000	2.5		63		23		30	no	2.7	11	ss	SO-8/DFN-12	Low Noise Diff Amp w/2.5MHz LP Filter	$2.95
1	LTC1100	10	0.1	0.05	1.8	3	104		1.9		2.8	no	4	18	out	DIP-8/SOW-16	Zero-Drift/Fixed Gain of 10 and 100	$6.15
1	LT1783	800	5	80	1.25	0.42	90	1500	20	20	0.3	yes	2.2	18	yes	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LTC1052	5	0.05	0.03	1.2	4	120	100000	30	0.5	2	no	4.75	18	out	DIP-8/DIP-14/SOW-16	Low Noise Zero-Drift	$4.10
1	LT1880	150	1.2	0.9	1.1	0.55	116	1600	13	1	1.9	no	2.4	40	out	SOT23-5	Picoamp Input Current/Precision	$1.75
1	LT1637	350	3	50	1	0.35	88	800	27	15	0.25	yes	1.8	44	yes	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.45
1	LTC1049	10	0.1	0.05	0.8	0.8	110	31622	80	0.5	0.3	no	4.75	18	out	DIP-8/SO-8	Zero-Drift No External Capacitors	$2.15
1	LTC1152	10	0.1	0.1	0.7	0.5	115	3162	130	35 Typ	3	yes	3	14	yes	DIP-8/SO-8	Zero-Drift C-Load Stable with Ext. RC	$3.15
1	LT1006	50	1.3	15	0.6	0.4	100	2500	22	6.5	0.52	no	4	44	ss	DIP-8/SO-8	Single Supply Precision Op Amp	$1.55
1	LT1996	50	1	5	0.56	0.12	80		18	8	0.11	no	2.7	36	yes	MS-10/DFN-10	Precision/A_V=9 to 117	$1.39
1	LT1991	50	1	5	0.56	0.12	80		46	8	0.11	no	2.4	40	yes	MS-10/DFN-10	Precision/Gain Select Range –13 to 14	$1.39
1	LTC2054	3	0.03	0.15	0.5	0.5	120	10000		1	0.175	no	2.7	7	out	SOT23-5	Micropower Zero-Drift/3V/5V Operation	$1.00
1	LTC2054HV	5	0.03	0.15	0.5	0.5	120	10000		1	0.21	no	2.7	12	out	SOT23-5	Micropower Zero-Drift ±5V Operation	$1.25
1	LT1218	90	3	70	0.3	0.1	92	1000	33	5	0.42	yes	2	36	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1218L	90	3	70	0.3	0.1	92	1000	33	5	0.42	yes	2	16	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LT1077	40	1.6	9	0.23	0.08	97	1000	27	5.5	0.06	no	2.2	44	ss	DIP-8/SO-8	High Precision Micropower Single Supply	$1.60
1	LTC2053	10	0.05	10	0.2	0.2	105		50	2.4	1.3	no	2.7	11	yes	DFN-8/MS-8	Zero-Drift IA/Programmable Gain	$3.20
1	LTC6915	10	0.05	10	0.2	0.2	105		50	2	1.6	yes	2.7	11	yes	DFN-12/SSOP-16	Serial or Par. PGA/A_V=0 to 4096 V/V	$2.44
1	LTC2053-SYNC	10	0.05	10	0.2	0.2	105		50	2.4	1.3	no	2.7	11	yes	MS-8	Zero-Drift IA/Freq. Set with Ext. Clock	$3.40
1	LTC6800	100	0.25	10	0.2	0.2	90		50	2.4	1.2	no	2.7	5.5	yes	DFN-8/MS-8	Zero-Drift RRIO IA	$1.55
1	LT1636	225	5	8	0.2	0.07	84	2000	52	12	0.055	yes	2.6	44	yes	DFN-8/DIP-8/MS-8/SO-8	Over-The-Top Micropower Op Amp	$1.45
1	LT1782	800	5	15	0.2	0.07	90	1500	50	20	0.055	yes	2.2	18	yes	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1635	1300	7	4.5	0.175	0.045	94	450	50	20	0.2	no	1.1	14	out	DIP-8/SO-8	Op Amp and Reference/LM10 Pinout	$1.75
1	LT1219	90	3	70	0.15	0.05	92	1000	33	5	0.42	yes	2	36	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1219L	90	3	70	0.15	0.05	92	1000	33	5	0.42	yes	2	16	yes	SO-8/DIP-8	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LTC1564	13000			0.15						17	no	2.7	10.5	yes	SSOPW-16	Digitally Prog. Filter and 4-bit PGA	$8.95
1	LT6100	300	3		0.14		100			8	0.13	no	2.7	36	ss	DFN-8/MS-8	Precision/Gain Selectable Current Sense	$1.18
1	LTC6101	450	0.22 Typ		0.14					1	0.45	no	4	60	ss	SOT-23-5/MS-8	High Voltage/High Side Current Sense	$1.04
1	LTC6101HV	300	0.2 Typ		0.14					1 Typ	0.45	no	5	100	ss	SOT-23-5/MS-8	High Voltage/High Side Current Sense	$1.30
1	LT1990	5200	22		0.1	0.55	70		1000	6	0.18	no	2.4	36	yes	SO-8	±250V Diff Amp and Integrated Resistors	$1.35
1	LT1789-1	100	0.7	40	0.06	0.026	100		48	2.2	0.095	no	2.2	36	out	SO-8	Micropower/Precision IA/Single Supply	$3.20
1	LT6000	750	5	5	0.05	0.015	82	65	75	4 Typ	0.016	no	1.8	18	yes	DFN-6	Low Power Precision RRIO	$0.80
1	LT1789-10	160	0.7	40	0.025	0.026	98		52	2.2	0.095	no	2.2	36	out	SO-8	Micropower/Precision IA/A_V>10	$3.20
1	LT1672	375	2	1	0.012	0.005	90	500	185	0.7	0.002	no	2.1	36	yes	DIP-8/MS-8/SO-8	Ultralow Power/Over-The-Top Inputs	$1.65
1	LTC1541	1000			0.012						0.01	no	2.5	12.6	ss	MS-8/SO-8/DFN-8	Micropower Amp/Comparator and Ref	$1.50
1	LTC1542	1000			0.012	8	0.5	1000		1.3	0.01	no	2.5	12.6	out	MS-8/SO-8/DFN-8	Micropower Amp/Comparator and Ref	$1.20
1	LT1494	375	2	1	0.0027	0.001	100	500	185	0.7	0.0015	no	2.1	36	yes	DIP-8/MS-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$1.65

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

SINGLE SUPPLY OP AMPS

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
1	LT1787	75	2							0.05 Typ	0.12	no	2.5	36	ss	SO-8/MS-8	Precision/High Side Current Sense	$2.05
1	LT1787HV	75	2							0.05 Typ	0.12	no	2.5	60	ss	SO-8/MS-8	Precision/Current Sense/60V V_{IN}	$2.90
1	LT6003	500	5	0.09	0.002	0.0008	115	350	325	2	0.001	no	1.6	16	yes	DFN-4/SOT23-5	1.6V, 1µA Precision RRIO	$0.72
2	LTC6420-20	2000	1.2 Typ		1800	4500	45		2.2	20	95	yes	2.85	3.5	out	3×4 QFN-20	Dual, Matched, Diff In/Out, A_V=10	$5.17
2	LTC6421-20	2000	1.4 Typ		1300	4500	45		2.2	10	50	yes	2.85	3.5	out	3×4 QFN-20	Dual, Matched, Diff In/Out, A_V=10	$4.77
2	LT1807	550	5	4000	325	125	79	220	3.5	35	13	no	2.5	12.6	yes	MS-8/SO-8	High Speed/Precision/Low Noise	$3.40
2	LT6231	350	3	10000	215	70	95	260	1.1	30	3.75	no	3	12.6	out	DFN-8/SO-8	Ultralow Noise/Low Power/High Speed	$1.95
2	LT6211	6000			200	700	46		6.5	75	8.3	no	3	13.2	out	DFN-10/MS-10	Adjustable Speed and Power CFA	$1.60
2	LT6201	1000	24	40000	165	50	68	200	0.95	60	23	no	2.5	12.6	yes	DFN-8/SO-8	Low Noise/RRIO/High Speed	$3.65
2	LT1810	2500	25	8000	160	300	66	80	16	45	17	no	2.3	12.6	yes	MS-8/SO-8	Low Distortion/High Speed/Low Noise	$2.65
2	LT6203	500	24	7000	100	25	65	200	1.9	30	3.5	no	2.5	12.6	yes	DFN-8/MS-8/SO-8	Low Noise/Low Power/RRIO	$2.45
2	LT6206	4500	18	30000	100	600	78	133	9	25	5.6	no	3	12.6	out	MS-8	3V 100MHz Single Supply Video Amp	$1.05
2	LT1801	350	5	250	80	25	85	85	8.5	20	2	no	2.3	12.6	yes	DFN-8/MS-8/SO-8	High Speed/Power/Precision/RRIO	$1.95
2	LT1804	2000	35	750	80	100	75	60	21	20	3	no	2.3	12.6	yes	DFN-8/SO-8	RRIO/High Speed	$1.95
2	LT6221	350	5	150	60	20	85	100	10	20	1	no	2.2	12.6	yes	DFN-8/SO-8	Precision/Low Power/RRIO	$1.85
2	LT6234	350	3	3000	60	17	90	180	1.9	40	1.25	no	3	12.6	out	DFN-8/SO-8	Ultralow Noise/Low Power	$2.45
2	LTC6244	100	2.5	0.075	50	35	74	2500	8	25	7.4	no	2.8	6	out	DFN-8/MSOP-8	Dual 50MHz/Low Noise/RRO/CMOS	$1.65
2	LTC6244HV	100	2.5	0.075	50	35	74	2500	8	25	7.4	no	2.8	10.5	out	DFN-8/MSOP-8	Dual 50MHz/Low Noise/RRO/CMOS	$2.35
2	LT1632	1350	15	2200	45	27	70	2000	12	20	5.2	no	2.6	36	yes	DIP-8/SO-8	Low Distortion/High Speed/RRIO	$3.05
2	LT1630	525	5.5	1000	30	9.2	79	3500	6	20	4.4	no	2.6	36	yes	DIP-8/SO-8	Low Distortion/High Speed/RRIO	$2.96
2	LTC6912-1	22000	1.75 Typ		30	16			15.1	35 Typ	2.75	yes	2.7	10.5	yes	DFN-12/SSOP-16	Dual PGA/Serial SPI/A_V=0 to 100V/V	$2.15
2	LTC6912-2	22000	1.75 Typ		30	16			15.1	35 Typ	2.75	yes	2.7	10.5	yes	DFN-12/SSOP-16	Dual PGA/Serial SPI/A_V=1 to 64V/V	$2.15
2	LT1213	150	1.5	160	28	8.5	90	850	10	30	3.8	no	2.5	36	ss	DIP-8/SO-8	Precision/Fast/CM to V^-	$2.85
2	LT1215	300	2.5	500	23	30	90	150	12	30	6.6	no	2.5	36	ss	DIP-8/SO-8	Precision/Fast/CM to V^-	$2.85
2	LT1678	100	3	20	20	6	98	3000	3.9	15	3.4	no	3	36	yes	SO-8	Very Low 1/f Corner Frequency	$2.50
2	LTC6241	125	2.5	0.075	18	10	80	1600	7	15	2.2	no	2.8	6	out	DFN-8/SO-8	1pA Input Bias Current CMOS Amp	$1.25
2	LTC6241HV	125	2.5	0.075	18	10	80	1600	7	15	2.2	no	2.8	11	out	DFN-8/SO-8	1pA Input Bias Current CMOS Amp	$2.20
2	LTC6087	750	5	0.001 Typ	14	7.2	70	6000	12	28	1.3	yes	2.7	5.5	yes	MS-8/DFN-10	Picoamp Input Current/RRIO	$0.91
2	LT1211	150	1.5	100	13	7	90	560	12	20	1.8	no	2.5	36	ss	DIP-8/SO-8	Precision/Single Supply/Wide V_{SUPPLY}	$2.85
2	LTC6911-1	22000	2.1 Typ		11	16	55		9.9	35 Typ	3.15	no	2.7	10.5	yes	MS-10	Dual/3-Bit Gain Control/0 to 100 V/V	$2.00
2	LTC6911-2	22000	2.1 Typ		11	16			10.9		3.15	no	2.7	10.5	yes	MS-10	Dual/3-Bit Gain Control/0 to 64 V/V	$2.00
2	LT1498	475	2.5	650	10.5	4.5	93	3800	12	12.5	2.2	no	2.2	36	yes	DIP-8/SO-8	Stable with Large C-Load	$2.96
2	LT1492	180	3	100	4.5	1.8	86	350	16.5	20	0.55	no	2.1	36	ss	SO-8/DIP-8	Single Supply/Low Power/Precision	$3.45
2	LTC6081	70	0.8	0.001	3.6	1	100	1000	13	24	0.425	yes	2.7	5.5	yes	DFN-10/MS-8	Precision/RRIO/Picoamp Input Current	$1.74
2	LTC2051	3	0.03	0.075	3	2	120	10000		10 Typ	1.2	yes	2.7	7	out	DFN-8/MS-8/MS-10/SO-8	Zero-Drift 3V/5V Operation	$2.00
2	LTC2051HV	3	0.03	0.15	3	2	125	10000		10 Typ	1.5	yes	2.7	12	out	DFN-8/MS-8/MS-10/SO-8	Zero-Drift 3V/5V/±5V Operation	$2.50
2	LTC1051	5	0.05	0.065	2.5	4	106	100000	70	0.5	2	no	4.75	16.5	out	DIP-8/SOW-16	Zero-Drift No External Capacitors	$4.05
2	LTC1151	5	0.05	0.1	2	2.5	106	10000		1.35	1.5	no	4.75	36	ss	DIP-8/SOW-16	Auto Zero Amplifier Works on $30V^+$	$5.80
2	LT6014	60	0.8	0.4	1.6	0.2	107	2000	9.5	8	0.165	no	2.7	40	out	DFN-8/SO-8	Micropower/Precision/RRO/A_V>5	$1.65
2	LTC6084	750	5	0.001 Typ	1.5	0.5	64	2000	31	12.5 Typ	0.13	no	2.5	5.5	yes	3×3 DFN-8/MS-8	Precision/1.5MHz/RRIO/Low Bias Current	$0.91
2	LT1638	600	6	50	1.2	0.38	88	1500	20	15	0.23	no	2.2	44	yes	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.95
2	LT1413	150	2	15	0.95	0.3	100	1400	23	2	0.45	no	3	22	ss	DIP-8/SO-8	Single Supply/Optimized for 5V	$2.00
2	LT1013	150	2	20	0.8	0.4	100	8000	22	6.5	0.5	no	4	44	ss	SO-8/DIP-8	Single Supply Precision Op Amps	$1.90
2	LTC6078	25	0.7	0.001	0.75	0.05	95	3162	18	5	0.072	yes	2.7	6	yes	MS-8/DFN-10	Micropower/Precision/RRIO	$1.49
2	LTC2055	3	0.03	0.15	0.5	0.5	120	10000		1	0.15	no	2.7	7	out	DFN-8/MS-8	Micropower Zero-Drift/3V/5V Operation	$1.60
2	LTC2055HV	5	0.03	0.15	0.5	0.5	120	10000		1	0.18	no	2.7	12	out	DFN-8/MS-8	Micropower Zero-Drift ±5V Operation	$2.00
2	LT1366	475	6	35	0.4	0.13	95	2000	29	30	0.52	no	2	36	yes	DIP-8/SO-8	C-Load Stable up to 1000pF	$3.50
2	LT6011	60	0.8	0.3	0.33	0.09	107	2000	14	1	0.15	no	2.4	40	out	DFN-8/SO-8/MS-8	Micropower/Precision/RRO	$1.65
2	LTC1047	10	0.05	0.03	0.2	0.2	110	31622		0.5	0.275	no	4.75	16	out	DIP-8/SOW-16	Zero-Drift No External Capacitors	$4.85
2	LT2078	70	1.8	8	0.2	0.07	95	1000	28	5.5	0.05	no	2.3	44	ss	SO-8	Micropower/Single Supply/Std Pinout	$3.50
2	LT1078	70	1.8	8	0.2	0.07	97	1000	28	5.5	0.05	no	2.2	44	ss	DIP-8/SO-8	Precision/Micropower/Single Supply	$2.70
2	LT1490A	500	4	8	0.18	0.06	84	1500	50	15	0.055	no	2	44	yes	DFN-8/DIP-8/MS-8/SO-8	RRIO/Over-The-Top	$1.75
2	LT1368	475	6	35	0.16	0.065	95	2000	29	30	0.52	no	2	36	yes	DIP-8/SO-8	Stable with 100nF C-Load	$3.45
2	LT1466L	390	7	14	0.12	0.04	88	1500	45	10	0.075	no	2	16	yes	DIP-8/SO-8	Precision Rail-to-Rail Micropower	$4.15

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Features	Price 1K Qty
2	LT1178	70	3	5	0.085	0.04	97	2500	49	5.5	0.017	no	2	44	ss	DIP-8/SO-8/SOW-16	Precision/Micropower/Single Supply	$2.95
2	LT2178	70	1.8	5	0.06	0.025	93	700	49	5.5	0.018	no	2.2	44	ss	SO-8	Micropower Single Supply	$3.50
2	LT6001	600	5	5	0.05	0.015	82	65	75	2	0.016	yes	1.8	18	yes	MS-8/DFN-10	Dual 1.8V/13µA Precision RRIO	$1.25
2	LT1673	375	2	1	0.012	0.005	90	500	185	0.7	0.002	no	2.1	36	yes	DIP-8/SO-8	Ultralow Power/Over-The-Top Inputs	$2.45
2	LT6004	500	5	0.09	0.002	0.0008	115	350	325	2	0.001	no	1.6	16	yes	DFN-8/MS-8	1.6V, 1µA Precision RRIO	$1.10
2	LT1495	375	2	1	0.0027	0.001	100	500	185	0.7	0.0015	no	2.1	36	yes	DIP-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$2.45
3	LT6558	45000			550	2200				60	24	no	3	7.5	ss	SSOP-16/ DFN-16	Triple Video Amplifier with Input Bias Control	$2.50
3	LT6550	35000		65000	110	340			12	45	11.5	no	3	12.6	out	MS-10	3V RGB Driver with A_V=2	$1.75
4	LT6232	350	3	10000	215	70	95	260	1.1	30	3.75	no	3	12.6	out	SSOP-16	Ultralow Noise/Low Power/High Speed	$3.30
4	LT6551	35000		65000	110	340			12	45	11.5	no	3	12.6	out	MS-10	3V RGB + Sync Driver with A_V=2	$1.95
4	LT6204	500	24	7000	100	25	65	200	1.9	30	3.5	no	2.5	12.6	yes	SO-14/SSOP-16	Low Noise/Low Power/RRIO	$4.50
4	LT6207	4500	18	30000	100	600	78	133	9	25	5.6	no	3	12.6	out	SSOP-16	3V 100MHz Single Supply Video Amp	$1.55
4	LT1805	2000	35	750	85	100	75	60	21	20	3	no	2.3	12.6	yes	SO-14	RRIO/High Speed	$3.50
4	LT1802	350	5	250	80	25	85	85	8.5	20	2	no	2.3	12.6	yes	SO-14	High Speed/Power/Precision/RRIO	$3.50
4	LT6235	350	3	3000	60	17	90	180	1.9	40	1.25	no	3	12.6	out	SSOP-16	Ultralow Noise/Low Power	$4.15
4	LT6222	350	5	150	60	20	85	100	10	20	1	no	2.2	12.6	yes	SSOP-16	Precision/Low Power/RRIO	$2.95
4	LT1633	1350	15	2200	45	27	70	2000	12	20	5.2	no	2.6	36	yes	SO-14	Low Distortion/High Speed/RRIO	$5.70
4	LT1631	525	5.5	1000	30	9.2	79	3500	6	20	4.4	no	2.6	36	yes	SO-14	Low Distortion/High Speed/RRIO	$5.60
4	LT1214	275	3	200	28	8.5	86	250	10	30	3.8	no	2.5	36	ss	DIP-14/SO-16	Precision/Fast CM to V^-	$5.10
4	LT1216	450	5	600	23	30	90	600	12	30	6.6	no	2.5	36	ss	DIP-14/SO-16	Precision/Fast/CM to V^-	$5.10
4	LT1679	100	3	20	20	6	98	3000	3.9	15	3.4	no	3	36	yes	SO-14	Very Low 1/f Corner Frequency	$3.85
4	LTC6242	125	2.5	0.075	18	10	80	1600	7	15	2.2	no	2.8	6	out	DFN-16/SSOP-16	1pA Input Bias Current CMOS Amp	$2.25
4	LTC6242HV	125	2.5	0.075	18	10	80	1600	7	15	2.2	no	2.8	11	out	DFN-16/SSOP-16	1pA Input Bias Current CMOS Amp	$3.30
4	LTC6088	750	5	0.001 Typ	14	7.2	70	6000	12	28	1.3	yes	2.7	5.5	yes	SSOP-16/DFN-16	Picoamp Input Current/RRIO	$1.40
4	LT1212	275	3	125	13	7	86	560	12	20	1.8	no	2.5	36	ss	DIP-14/SO-16	Precision/Single Supply/Wide V_{SUPPLY}	$5.10
4	LT1499	475	2.5	650	10.5	4.5	93	3800	12	12.5	2.2	no	2.2	36	yes	SO-14	Stable with Large C-Load	$5.60
4	LT1493	130	3	100	4.5	1.8	86	350	16.5	20	0.55	no	2.1	36	ss	SO-16	Single Supply/Low Power/Precision	$6.40
4	LTC6082	70	0.8	0.001	3.6	1	100	1000	13	24	0.425	yes	2.7	5.5	yes	DFN-16/SSOP-16	Precision/RRIO/Picoamp Input Current	$2.97
4	LTC2052	3	0.03	0.075	3	2	120	10000		10 Typ	1.2	no	2.7	7	out	SO-14/SSOP-16	Zero-Drift Op Amp 3V/5V Operation	$3.65
4	LTC2052HV	3	0.03	0.15	3	2	125	10000		10 Typ	1.5	no	2.7	12	out	SO-14/SSOP-16	Zero-Drift 3V/5V/±5V Operation	$4.55
4	LTC1053	5	0.05	0.065	2.5	4	106	100000	70	0.5	2	no	4.75	16.5	out	DIP-14/SOW-18	Zero-Drift No External Capacitors	$7.50
4	LT1885	80	0.8	0.9	2	0.9	108	1600	9.5	15	0.9	no	2.4	40	out	SO-14	Picoamp Input Current/Precision	$4.85
4	LTC6085	750	5	0.001 Typ	1.5	0.5	64	2000	31	12.5 Typ	0.13	no	2.5	5.5	yes	5×3 DFN-16/SSOP-16	Precision/1.5MHz/RRIO/Low Bias Current	$1.40
4	LT1639	600	6	50	1.075	0.38	88	1500	20	15	0.23	no	2.2	44	yes	DIP-14/SO-14	High Voltage/Over-The-Top/Low Power	$3.30
4	LT1882	80	0.8	0.5	1	0.35	106	1600	14	5	0.9	no	2.4	40	out	SO-14	Picoamp Input Current/Precision	$4.85
4	LT1014	150	2	20	0.8	0.4	100	8000	22	6.5	0.5	no	4	44	ss	DIP-14/SOW-16	Single Supply Precision Op Amp	$3.45
4	LTC6079	25	1.4	0.001	0.75	0.05	95	3162	18	5	0.072	no	2.7	6	yes	DFN-16/SSOP-16	Micropower/Precision/RRIO	$2.53
4	LT1367	800	6	35	0.4	0.13	93	2000	29	30	0.52	no	2	36	yes	SO-14	C-Load Stable up to 1000pF	$6.10
4	LT6012	60	0.8	0.3	0.33	0.09	107	2000	14	1	0.15	no	2.4	40	out	SO-14/SSOPN-16	Micropower/Precision/RRO	$2.95
4	LT1079	100	1.8	8	0.2	0.07	97	1000	28	5.5	0.05	no	2.2	44	ss	DIP-14/SOW-16	Precision/Micropower/Single Supply	$3.40
4	LT2079	110	3	8	0.2	0.07	95	1000	28	5.5	0.05	no	2.3	44	ss	SO-14	Micropower Single Supply	$5.95
4	LT1491A	1000	4	8	0.18	0.06	84	1500	50	15	0.055	no	2	44	yes	DIP-14/SO-14/DFN-16	RRIO/Over-The-Top	$3.00
4	LT1369	800	6	35	0.16	0.065	93	2000	29	30	0.52	no	2	36	yes	SO-14	Stable with 100nF C-Load	$6.10
4	LT1467L	390	7	14	0.12	0.04	88	1500	45	10	0.075	no	2	16	yes	SO-16	Precision Micropower Rail-to-Rail	$7.20
4	LT1179	100	0.3	5	0.085	0.04	97	2500	49	5.5	0.017	no	2	44	ss	DIP-14/SOW-16	Precision/Micropower/Single Supply	$3.70
4	LT2179	100	3	5	0.06	0.025	93	700	49	1.6	0.018	no	2.2	44	ss	SO-14	Micropower Single Supply	$6.30
4	LT6002	750	5	5	0.05	0.015	82	65	75	2	0.016	no	1.8	18	yes	SSOP-16/DFN-16	Quad 1.8V/13µA Precision RRIO	$2.00
4	LT1674	375	2	1	0.012	0.005	90	500	185	0.7	0.002	no	2.1	36	yes	DIP-14/SO-14	Ultralow Power/Over-The-Top Inputs	$3.25
4	LT1496	375	2	1	0.0027	0.001	100	500	185	0.7	0.0015	no	2.1	36	yes	DIP-14/SO-14	Ultralow Power/Precision/RRIO	$3.25
4	LT6005	650	5	0.09	0.002	0.0008		350	325	2	0.001	no	1.6	16	yes	SSOP-16/DFN-16	1.6V, 1µA Precision RRIO	$1.75

† Primary Sort Column
†† Secondary Sort Column

Note:
1. ss = Input common mode range includes negative supply rail

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

LOW NOISE OP AMPS ($e_n \leq 20nV/\sqrt{Hz}$)

† Amplifiers Per Package	Part Number	†† E_{NOISE} Typ 25°C (nV/√Hz)	LF E_{NOISE} Typ 25°C (μV_{P-P})	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
1	LT1028	0.85	0.035	1	40	0.8	90	75	15	18.3	9.5	8	44		DIP-8/SO-8/SOW-16	300	Lowest Noise Low Drift	$4.75
1	LT1128	0.85	0.035	1	40	0.8	90	20	6	18.3	9.5	8	44		DIP-8/SO-8	500	Lowest Noise High Speed	$4.75
1	LT1115	0.9	0.8	1.2	200	8.5 Typ	380	70	15	18.3	11.5	8	44		DIP-8/SOW-16	4000	Low Noise /Ultralow Distortion	$2.90
1	LT6200-10	0.95	0.6	2.2	1000	24	40000	1600	450	60	23	2.5	12.6	yes	SO-8/SOT23-6	1000	Low Noise/RRIO/High Speed/A_V>10	$1.50
1	LT6200-5	0.95	0.6	2.2	1000	24	40000	800	250	60	23	2.5	12.6	yes	SO-8/SOT23-6	1000	Low Noise/RRIO/High Speed/A_V>5	$1.50
1	LT6200	0.95	0.6	2.2	1000	24	40000	165	50	60	23	2.5	12.6	yes	SO-8/SOT23-6	1000	Low Noise/RRIO/High Speed	$2.15
1	LTC6400-8	1			5000	85 Typ		2200	3810	20	95	2.85	3.5	ss	3×3 QFN-16		2.2GHz Low Noise, Low Distortion Differential ADC Driver for DC-300MHz	$3.20
1	LT6230-10	1.1	0.18	1	500	3	10000	1450	320	30	3.75	3	12.6	out	SOT23-6	2000	Ultralow Noise/Low Power/A_V>10	$1.50
1	LT6230	1.1	0.18	1	500	3	10000	215	70	30	3.75	3	12.6	out	SOT23-6	1000	Ultralow Noise/Low Power/High Speed	$1.25
1	LTC6400-26	1.5			2000	1 Typ		1900	6670	20	102	2.85	3.5		3×3 QFN-16		26dB Fixed Gain/Differential ADC Driver/140MHz IF	$3.20
1	LTC6401-26	1.5			2500	1 Typ		1610	3300	10	60	2.85	3.5		3×3 QFN-16		26dB Fixed Gain/Differential ADC Driver/140MHz IF	$2.95
1	LTC6404-1	1.5		3	2000	1 Typ	–23000	500	450	40	35.5	2.7	5.25	out	3×3 QFN-16		500MHz/Low Noise, Differential I/O Amp/Driver	$3.44
1	LTC6404-4	1.5		3	2000	1 Typ	–23000	1700	1200	40	39	2.7	5.25	out	3×3 QFN-16		1.7GHz Low Noise/Distortion, RRO	$3.44
1	LTC6404-2	1.5		3	2000	1 Typ	–23000	900	700	40	39	2.7	5.25	out	3×3 QFN-16		0.9GHz Low Noise/Distortion, RRO	$3.44
1	LTC6405	1.6		2.4	15000	18 Typ	8000 Typ	2700	690		23	4.5	5.5	ss	3×3 QFN-16		2.7GHz, 5V, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	$3.44
1	LTC6406	1.6		2.5	5000	18 Typ	6000 Typ	3000	630	38	22	2.7	3.5	ss	3×3 QFN-16		3GHz, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	$3.44
1	LT1993-10	1.7			6500	100 Typ		700	1100	40	112	4	5.5		3×3 QFN-16	5	Low Distortion ADC Driver/A_V=10	$2.95
1	LTC6416	1.8		6.5	5000		10000	2000	3400	20	51	2.7	4	ss	3×2 DFN-10		16-Bit, 2GHz Differential ADC Buffer	C.F.
1	LT6402-20	1.85			6500	30 Typ		300	1000	30	37	4	5.5	ss	3×3 QFN-16	5	Low Distortion and Noise Diff. ADC Driver	$2.39
1	LT6233-10	1.9	0.22	0.43	500	3	3000	375	115	40	1.25	3	12.6	out	SOT23-6	1000	Low Noise/Low Power/A_V>10	$1.90
1	LT6202	1.9	0.8	0.75	500	24	7000	100	25	30	3.5	2.5	12.6	yes	SO-8/SOT23-5	1000	Low Noise/Low Power/RRIO	$1.45
1	LT6233	1.9	0.22	0.43	500	3	3000	60	17	40	1.25	3	12.6	out	SOT23-6	1000	Ultralow Noise/Low Power/High Speed	$1.45
1	LTC1100	1.9	1.9		10	0.1	0.05	1.8	3		2.8	4	18	out	DIP-8/SOW-16	10	Zero-Drift/Fixed Gain of 10 and 100	$6.15
1	LTC6401-20	2.1			2000	1.4 Typ		1250	4500	10	62	2.85	3.5		3×3 QFN-16		1.3GHz Differential ADC Driver	$2.95
1	LTC6400-20	2.1			2000	1.2 Typ		1840	4500	20	105	2.85	3.5		3×3 QFN-16		20dB Fixed Gain/1.8GHz Low Noise, Low Distortion Differential ADC Driver	$3.20
1	LT1993-4	2.15			6500	100 Typ		900	1100	40	112	4	5.5		3×3 QFN-16	5	Low Distortion ADC Driver/A_V=4	$2.95
1	LTC6401-14	2.5			3000	1.2 Typ		1950	3600	10	60	2.85	3.5		3×3 QFN-16		2GHz Differential ADC Driver	$2.95
1	LT1037	2.5	0.06	0.4	25	0.6	35	60	15	18.3	4.3	8	44		DIP-8/SO-8	100	Extremely Low Noise	$1.90
1	LTC6400-14	2.5			3000	85 Typ		1860	4800	20	96	2.85	3.5	ss	3×3 QFN-16		1.9GHz Low Noise, Low Distortion Differential ADC Driver for 300MHz IF	$3.20
1	LT1007	2.5	0.06	0.04	25	0.6	35	8	2.5	18.3	4	4	44		DIP-8/SO-8	100	Extremely Low Noise	$1.90
1	LT1226	2.6		1.5	1000	7 Typ	8000	1000	400	24	9	5	36		SO-8/DIP-8	1000	Low Noise/High Speed/High Gain	$2.85
1	LT6402-12	2.7			6500	30 Typ		300	400	30	37	4	5.5	ss	3×3 QFN-16	5	Low Distortion Diff. Amp (A_V=12dB)	$2.39
1	LT1251	2.7		1.5	5000	13.5 Typ	30000	40	300	30	17	5	36		DIP-14/SO-14	100	Video Fader Control	$5.85
1	LT1256	2.7		1.5	5000	13.5 Typ		40	300	30	17	5	36		DIP-14/SO-14	100	Video Fader Control	$5.85
1	LTC6403-1	2.8		1.8	1500	1 Typ	25000	200	200	30	11.8	2.7	5.25	out	3×3 QFN-16		Low Noise/Low Distortion Diff ADC Driver	$1.79
1	LTC6410-6	3			2000	–0.3 Typ		1400	1500	42	130	2.8	5.25	ss	3×3 QFN-16		Low Noise/Differential IF Amp/Configurable Input Impedance	$2.89
1	LT1222	3		2	300	8 Typ	300	500	200	24	10.5	5	36		SO-8/DIP-8	1000	Fast Setting Time/High Speed/Gain>10	$3.40
1	LT1252	3		1.5	15000			250	250	30	18	4	28		DIP-8/SO-8	100	High Voltage Video Amp	$1.70
1	LT1994	3		2.5	2000	13.3 Typ	45000	70	65	45	18.5	2.375	12.6	out	MS-8/3×3 DFN-8	25	Low Noise/Low Distortion/Diff. In/Out	$1.65
1	LT1210	3		2	15000	35 Typ		66	900	1100	50	8	36		DDPAK-7/SO-16/TO-220	10000	1A Output Current	$6.40
1	LTC6401-8	3.2			1000	1.4 Typ		1700	4800	10	45	2.85	3.5	ss	3×3 QFN-16		8dB Fixed Gain/Differential ADC Driver/140MHz IF	$2.95
1	LT1227	3.2		1.7	10000	10 Typ		140	1100	30	15	4	36		DIP-8/SO-8	2000	High Voltage CFA	$2.40
1	LT1677	3.2	0.09	0.3	60	1.5	20	7.2	2.5	25	3.5	2.5	44	yes	DIP-8/SO-8	1000	High Loop Gain/Low Noise/RRIO	$2.15

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† E_{NOISE} Typ 25°C (nV/√Hz)	LF E_{NOISE} Typ 25°C (μV_{P-P})	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
1	LT1993-2	3.5			6500			800	1100	40	112	4	5.5		3×3 QFN-16	5	Low Distortion ADC Driver/A_V=2	$2.95
1	LT1806	3.5	0.8	1.5	550	5	4000	325	125	35	13	2.5	12.6	yes	SO-8/SOT23-6	1000	High Speed/Precision/Low Noise	$2.10
1	LT1206	3.6		2	10000	20 Typ		66	900	250	30	10	36		DDPAK-7/DIP-8/SO-8/TO-220	10000	High I_{OUT}/Adj. Supply Current/C-Load	$3.40
1	LT6402-6	3.8			6500	30 Typ		300	400	30	37	4	5.5	ss	3×3 QFN-16	5	Low Distortion Diff. Amp (A_V=6dB)	$2.39
1	LT1722	3.8		1.2	400	7	300	200	70	35	4.5	4.6	12.6		SO-8/SOT23-5	100	Low Noise at Video Speed/Precision	$0.88
1	LT1792	4.2	2.4	0.01	600	10	0.8	5.6	3.4	12	5.2	10	40		DIP-8/SO-8	10000	FET Input/Low Distortion/Precision	$2.25
1	LT1395	4.5		6	10000	15		400	800	80	6.5	3	12.6		SO-8/SOT23-5/SOT23-6	1000	CFA/100MHz 0.1dB Bandwidth	$1.30
1	LT1468	5	0.3	0.6	75	2	40	90	22	15	5	6	36		3×3 DFN-8/DIP-8/SO-8	300	16-Bit Accuracy/760ns to 0.01% Settling	$2.95
1	**LT1468-2**	**5**	**0.3**	**0.6**	**75**	**2**	**40**	**200**	**30**	**15**	**5**	**9**	**36**		**3×3 DFN-8/SO-8**	**300**	**16-Bit Accuracy/760ns to 0.01% Settling/A_V>2**	**$2.95**
1	LT1818	6		1.2	1500	15	8000	400	2500	40	10	3.5	12.6		SO-8/SOT23-5	20	High Slew Rate VFB	$0.95
1	LT1815	6		1.3	1500	15	8000	220	1500	50	7.8	4	12.6		SO-8/SOT23-5/SOT23-6	10	High SR VFB with Prog. Supply Current	$0.88
1	LT1221	6		2	1000	8 Typ	300	150	250	24	10.5	5	36		SO-8/DIP-8	1000	Low Noise/High Speed/High Gain	$3.30
1	LT1793	6	2.4	0.0008	800	13	0.01	4.2	3.4	12	5.2	10	40		DIP-8/SO-8	10000	FET Input/Precision/Low Distortion	$2.25
1	LT6210	6.5		4.5	6000			200	700	75	8.3	3	13.2	out	SOT23-6	10000	Adjustable Speed and Power CFA	$1.20
1	LT1217	6.5		0.7	3000			10	500	50	2	10	36		DIP-8/SO-8	5000	Low Power CFA	$3.20
1	LT1204	7		1.5	14000	19 Typ		95	1000	35	24	9	36		DIP-16/SOW-16	4000	4:1 MUX w/CFA Bootstrapped Resistors	$4.80
1	LTC6240	7	0.55	0.00056	175	2.5	0.001	18	10	15	2.4	2.8	6	out	SOT-23/SO-8	200	18MHz/Low Noise/RRO/CMOS	$0.77
1	LTC6240HV	7	0.55	0.00056	250	2.5	0.001	18	10	15	3.3	2.8	11	out	SOT-23/SO-8	200	18MHz/Low Noise/RRO/CMOS	$1.40
1	LT1225	7.5		1.5	1000	7 Typ	8000	150	400	24	9	5	36		SO-8/DIP-8	1000	Full Power Bandwidth 13MHz at ±5V	$2.85
1	LT1167	7.5	0.28	0.124	40	0.3	0.35	1	1.2	20	1.3	4.6	40		DIP-8/SO-8	1000	Precision/Low Bias Current IA	$3.20
1	LT1920	7.5	2	0.124	125	1	2	0.8	1.2	20	1.3	4.6	40		DIP-8/SO-8	1000	Resistor Programmable IA	$3.05
1	LT1812	8		1	1500	15	4000	100	750	40	3.6	2.5	12.6		SO-8/SOT23-5/SOT23-6	100	High Speed/Power/Low Noise	$0.88
1	LT1357	8		0.8	600	8	500	25	600	24	2.5	5	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$2.45
1	LT1800	8.5	1.4	1	350	5	250	80	25	20	2	2.3	12.6	yes	SO-8/SOT23-5	1000	High Speed/Power/Precision/RRIO	$1.30
1	LTC6910-1	8.6	3.4		15000			11	16	9.5	3	2.7	11	yes	SOT23-8	50	3-Bit Gain Control/0 to 100 V/V	$1.10
1	LT1192	9		4	2500	2 Typ	2500	350	450	50	38	4	18		DIP-8/SO-8	50	+/-5V Supply Color Video	$1.70
1	LT6205	9	2	4	4500	18	30000	100	600	25	5.6	3	12.6	out	SOT23-5	1000	3V 100MHz Single Supply Video Amp	$0.88
1	LT1363	9		1	1500	13	2000	70	1000	50	7.5	3	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$2.40
1	LT1360	9		0.9	1000	12	1000	50	800	26	4.8	3	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$2.20
1	LTC6910-2	9.1	3.6		15000			13	16	9.5	3	2.7	11	yes	SOT23-8	50	3-Bit Gain Control/0 to 64 V/V	$1.10
1	LT6013	9.5	0.2	0.15	35	0.8	0.25	1.6	0.2	8	0.165	2.7	40	out	DFN-8/SO-8	500	Micropower/Precision/RRO/A_V>5	$1.10
1	LT1001	9.6	0.3	0.1	25	0.6	2	0.8	0.25	12	2.5	6	44		DIP-8/SO-8	20000	General Purpose/High Precision	$1.65
1	LT6220	10	0.5	0.8	350	5	150	60	20	20	1	2.2	12.6	yes	SO-8/SOT23-5	7000	Precision/Low Power/RRIO	$1.20
1	LT1354	10		0.6	800	8	300	12	400	30	1.25	5	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$2.30
1	LT1168	10	0.28	0.074	40	0.3	0.25	0.4	0.5	20	0.53	4.6	40		DIP-8/SO-8	1000	Precision IA/Low Bias Current/Low Power	$3.70
1	LTC6910-3	10.6	4.7		15000			11	16	9.5	3	2.7	11	yes	SOT23-8	50	3-Bit Gain Control/0 to 7 V/V	$1.10
1	LT1880	13	0.5	0.07	150	1.2	0.9	1.1	0.55	1	1.9	2.4	40	out	SOT23-5	1000	Picoamp Input Current/Precision	$1.75
1	LT1995	14			5000	26	600 Typ	24	1000	70	8.5	2.5	36		MS-10/DFN-10	200	Fast Diff. Amp/Integrated Resistors	$1.89
1	LT1122	14	3	0.002	600	18	0.075	14	80	19.1	10	20	40		DIP-8/SO-8	500	Setting Guaranteed to 0.01%/FET Input	$2.45
1	LT6600-10	14			13000	35 Typ	85000	10			39	2.7	11	ss	SO-8/DFN-12	50	Low Noise Diff Amp w/10MHz LP Filter	$2.95
1	LT1022	14	2.5	0.0018	250	5	0.05	8.5	26	6	7	8	40		DIP-8	100	High Speed JFET Input	$2.80
1	LT1351	14		0.5	600	8	50	3	200	30	0.33	5	36		SO-8/MS-8/DIP-8	All	High Speed/Precision/C-Load	$2.45
1	LT1008	14	0.5	0.02	120	1.5	0.1	1	0.2	1.3	0.6	4	40		DIP-8/SO-8	600	Low Bias Current/External Compensation	$2.95
1	LT1012	14	0.5	0.02	25	0.6	0.1	1	0.2	1.3	0.5	2.4	40		DIP-8/SO-8	1000	Low V_{OS} Stable with any C-Load	$1.60
1	LT1097	14	0.5	0.008	50	1.2	0.25	0.7	0.2	5.75	0.56	2	40		DIP-8/SO-8	10000	Low Cost/C-Load Stable	$1.75
1	LT6010	14	0.4	0.1	35	0.8	0.11	0.33	0.09	1	0.15	2.7	40	out	DFN-8/SO-8	500	Micropower/Precision/RRO	$1.10
1	LT1194	15		4	6000	6 Typ	3500	350	500	64	40	4	18		DIP-8/SO-8	50	Amplitude Limiting Control	$2.90
1	LT6600-20	15			15000	42 Typ	95000	20			46	2.7	11	ss	SO-8	50	Low Noise Diff Amp w/20MHz LP Filter	$2.95
1	LT1056	15	2.8	0.0018	800	12	0.05	5.5	14	30 Typ	7	8	40		DIP-8/SO-8	100	Low Offset JFET	$1.90
1	LT1055	15	2	0.0018	700	12	0.05	4.5	12	30 Typ	4	8	40		DIP-8/SO-8	100	Low Offset JFET	$1.90

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††† Tertiary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

LOW NOISE OP AMPS ($e_n \leq 20nV/\sqrt{Hz}$)

† Amplifiers Per Package	Part Number	†† E_{NOISE} Typ 25°C (nV/√Hz)	LF E_{NOISE} Typ 25°C (μV_{P-P})	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
1	LT1970	15	3	3	600	10	600	3.6	1.6	500	13	5	36		TSSOP-20	10000	Power Amp/Adj. Current Limit	$4.95
1	LTC1250	15	0.75	0.004	10	0.05	0.2	1.5	10	4	4	4.75	18		DIP-8/SO-8	50	Low Noise/Zero-Drift Bridge Amp	$2.85
1	LT1809	16	8	5	2500	25	8000	160	300	45	17	2.5	12.6	yes	SO-8/SOT23-6	1000	Low Distortion/High Speed/Low Noise	$1.75
1	LT6600-5	16			25000	28 Typ	70000	5			31	2.7	11	ss	SO-8	50	Low Noise Diff Amp w/5MHz LP Filter	$2.95
1	LT1220	17		2	1000	8 Typ	300	45	250	24	10.5	5	36		SO-8/DIP-8	100000	Fast Setting Time and C-Load Op Amp	$3.40
1	LTC1992	18		1	2500	0.65 Typ	0.25	4	0.75	10	1	2.4	12	out	MS-8	10000	Fully Differential In/Out	$1.65
1	LT1996	18			50	1	5	0.56	0.12	8	0.11	2.7	36	yes	MS-10/DFN-10		Precision/A_V=9 to 117	$1.39
1	LT6600-15	19			15000	42 Typ	90000	15			46	2.7	11	ss	SO-8	50	Low Noise Diff Amp w/15MHz LP Filter	$2.95
1	LT1102	19	2.8	1.5	600	8	0.04	3.5	30	6	5	18	40		DIP-8	50000	JFET Input IA/Gain of 10 or 100	$4.75
1	LT1228	20		1.4	5000	9 Typ	1000	100	500	30	15	4	36		DIP-8/SO-8	2000	CFA with Gain Control	$3.75
1	LT1010	20			150000		250000	30	200	150	9	4.5	44		DIP-8/T-5/DFN-10	330000	High Power High Speed Buffer	$2.40
1	LT1797	20	1.5	0.15	1500	20	300	10	2.25	25	1.5	2.1	12.6	yes	SOT23-5	10000	RRIO/Low Noise/C-Load Stable	$1.00
1	LT1783	20	0.6	0.14	800	5	80	1.25	0.42	20	0.3	2.2	18	yes	SOT23-5/SOT23-6	3000	Over-The-Top/Micropower/RRIO/C-Load	$1.10
2	LT6201	0.95	0.6	2.2	1000	24	40000	165	50	60	23	2.5	12.6	yes	DFN-8/SO-8	1000	Low Noise/RRIO/High Speed	$3.65
2	LT6231	1.1	0.18	1	350	3	10000	215	70	30	3.75	3	12.6	out	DFN-8/SO-8	1000	Ultralow Noise/Low Power/High Speed	$1.95
2	LT6203	1.9	0.8	0.75	500	24	7000	100	25	30	3.5	2.5	12.6	yes	DFN-8/MS-8/SO-8	1000	Low Noise/Low Power/RRIO	$2.45
2	LT6234	1.9	0.22	0.43	350	3	3000	60	17	40	1.25	3	12.6	out	DFN-8/SO-8	1000	Ultralow Noise/Low Power	$2.45
2	LTC6420-20	2.2			2000	1.2 Typ		1800	4500	20	95	2.85	3.5	out	3×4 QFN-20		Dual Matched Diff In/Out, A_V=10	$5.17
2	LTC6421-20	2.2			2000	1.4 Typ		1300	4500	10	50	2.85	3.5	out	3×4 QFN-20		Dual Matched Diff In/Out, A_V=10	$4.77
2	LT1126	2.7	0.07	0.3	70	1	20	65	11	6.25	3.1	8	44		SO-8/DIP-8	15	Low Noise/65MHz GBW/Precision	$3.50
2	LT1124	2.7	0.07	0.3	70	1	20	12.5	4.5	6.25	2.75	8	44		DIP-8/SO-8	15	Low Noise/Low 1/f Corner/Precision	$3.50
2	LT1253	3		1.5	15000			250	250	30	11	4	28		DIP-8/SO-8	100	High Voltage Dual Video Amp	$2.45
2	LT1497	3		2	10000	10		59	900	125	7	4	36		SO-8/SO-16	2000	125mA Output CFA	$3.35
2	LT1229	3.2		1.4	10000	6 Typ		100	700	30	9.5	4	36		DIP-8/SO-8	2000	General Purpose High Voltage CFA	$3.75
2	LT1807	3.5	0.8	1.5	550	5	4000	325	125	35	13	2.5	12.6	yes	MS-8/SO-8	1000	High Speed/Precision/Low Noise	$3.40
2	LT1259	3.6		1.3	12000	5 Typ		130	1600	30	7.5	4	36		DIP-14/SO-14	1000	Low Cost High Voltage CFA/Shutdown	$2.45
2	LT1207	3.6		2	10000	20 Typ		66	900	250	30	10	36		SO-16	10000	High Current/Prog. Supply/C-Load	$6.90
2	LT1795	3.6		2	13000	29 Typ		65	900	500	34	10	36		SOW-20/TSSOP-20	1000	High I_{OUT}/High Speed	$4.95
2	LT1723	3.8		1.2	400	7	300	200	70	35	4.5	4.6	12.6		MS-8/SO-8	100	Low Noise at Video Speed/Precision	$1.15
2	LT1678	3.9	0.09	0.3	100	3	20	20	6	15	3.4	3	36	yes	SO-8	500	Very Low 1/f Corner Frequency	$2.50
2	LT1396	4.5		6	10000	15		400	800	80	6.5	3	12.6		DFN-8/MS-8/SO-8	1000	Dual CFA/100MHz 0.1dB BW	$1.95
2	LT1398	4.5		6	10000	15		300	800	80	6.5	3	12.6		SO-16	1000	0.1dB Gain Flatness to 150MHz	$2.25
2	LT1113	4.5	2.4	0.01	1500	1.5	0.45	5.6	3.9	12	6.25	9	40		DIP-8/SO-8	10000	Low Noise and Low Offset/JFET Input	$3.15
2	LT1469	5	0.3	0.6	125	3	40	90	22	15	5.2	6	36		4×4 DFN-12/DIP-8/SO-8	300	16-Bit Accuracy/760ns to 0.01% Settling	$4.95
2	**LT1469-2**	**5**	**0.3**	**0.6**	**125**	**3**	**40**	**200**	**30**	**15**	**5.2**	**9**	**36**		**4×4 DFN-12/SO-8**	**300**	**16-Bit Accuracy/760ns to 0.01% Settling/A_V>2**	**$4.95**
2	LT1969	6		2	4000	17	4000	700	200	200	8.25	4	13.2		MS-10	1000	High Output Current/A_V>10	$2.95
2	LT1886	6		2	4000	17	4000	700	200	200	8.25	4	13.2		SO-8	1000	High Output Current/A_V>10	$2.80
2	LT1819	6		1.2	1500	15	8000	400	2500	40	10	3.5	12.6		MS-8/SO-8	20	High Slew Rate VFB	$1.60
2	LT1816	6		1.3	1500	15	8000	220	1500	50	7.8	2.5	12.6		DFN-8/MS-8/MS-10/SO-8	10	High SR VFB with Prog Supply Current	$1.50
2	LT1630	6	0.3	0.9	525	5.5	1000	30	9.2	20	4.4	2.6	36	yes	DIP-8/SO-8	300	Low Distortion/High Speed/RRIO	$2.96
2	LT1169	6	2.4	0.001	2000	50	0.02	5.3	4.2	12	6.5	9	40		DIP-8/SO-8	1000	Low Noise JFET	$3.85
2	LT6211	6.5		4.5	6000			200	700	75	8.3	3	13.2	out	DFN-10/MS-10	10000	Adjustable Speed and PowerCFA	$1.60
2	LTC6241	7	0.55	0.00056	125	2.5	0.075	18	10	15	2.2	2.8	6	out	DFN-8/SO-8	200	1pA Input Bias Current CMOS Amp	$1.25
2	LTC6241HV	7	0.55	0.00056	175	2.5	0.075	18		15	2.2	2.8	11	out	DFN-8/SO-8	200	1pA Input Bias Current CMOS Amp	$2.20
2	LT6411	8			10000			650	3300	50	11	4.5	12.6		QFN-16	12	650MHz Diff ADC Driver	$2.39
2	LT6300	8		0.8	5000	4 Typ	4000	200	600	500	13.5	8	27		SSOP-16	30	xDSL Driver	$2.85
2	LT1794	8		0.8	5000	10 Typ	4000	200	600	500	13.5	8	36		SOW-20/TSSOP-20	30	High I_{OUT}/Low Noise/High Speed	$4.95
2	LT1739	8		0.8	5000	10 Typ	4000	200	600	500	13.5	8	27		DFN-12/TSSOP-20	30	High I_{OUT}/Low Noise/High Speed	$3.55
2	LT1813	8		1	1500	15	4000	100	750	40	3.6	2.5	12.6		MS-8/SO-8/DFN-8	100	High Speed/Power/Low Noise	$0.99
2	LT1813HV	8		1	1500	15	4000	100	750	40	4	2.5	13.5		SO-8	100	High Speed/Power/ V_S up to 13.5V	$1.19

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† E_{NOISE} Typ 25°C (nV/√Hz)	LF E_{NOISE} Typ 25°C (μV_{P-P})	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
2	LTC6244	8	1.5	0.00056	100	2.5	0.075	50	35	25	7.4	2.8	6	out	DFN-8/MSOP-8	200	50MHz/Low Noise/RRO/CMOS	$1.65
2	LTC6244HV	8	1.5	0.00056	100	2.5	0.075	50	35	25	7.4	2.8	10.5	out	DFN-8/MSOP-8	200	High Voltage Version of LTC6244	$2.35
2	LT1358	8		0.8	600	8	500	25	600	24	2.5	5	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$3.90
2	LT1801	8.5	1.4	1	350	5	250	80	25	20	2	2.3	12.6	yes	DFN-8/MS-8/SO-8	1000	High Speed/Power/Precision/RRIO	$1.95
2	LT6206	9	2	4	4500	18	30000	100	600	25	5.6	3	12.6	out	MS-8	1000	3V 100MHz Single Supply Video Amp	$1.05
2	LT1364	9		1	1500	13	1000	70	1000	50	7.2	3	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$3.70
2	LT1361	9		0.9	1000	12	1000	50	800	26	4.8	5	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$3.40
2	LT1884	9.5	0.4	0.05	50	0.8	0.4	2	0.9	15	0.9	2.4	40	out	DIP-8/SO-8	500	Picoamp Input Current/Precision	$2.75
2	LT6014	9.5	0.2	0.15	60	0.8	0.4	1.6	0.2	8	0.165	2.7	40	out	DFN-8/SO-8	500	Micropower/Precision/RRO/A_V>5	$1.65
2	LT1002	9.6	0.35	0.1	60	0.9	3	0.8	0.25	12	2.5	6	44		DIP-14	20000	High CMRR and PSRR	$2.85
2	LTC6911-1	9.9	3.8		22000	2.1 Typ		11	16	35 Typ	3.15	2.7	10.5	yes	MS-10	50	Dual/3-Bit Gain Control/0 to 100 V/V	$2.00
2	LT6221	10	0.5	0.8	350	5	150	60	20	20	1	2.2	12.6	yes	DFN-8/SO-8	7000	Precision/Low Power/RRIO	$1.85
2	LT1213	10	0.2	0.2	150	1.5	160	28	8.5	30	3.8	2.5	36	ss	DIP-8/SO-8	1000	Precision/Fast/CM to V^-	$2.85
2	LT1355	10		0.6	800	8	300	12	400	25	1.25	5	36		SO-8/DIP-8	All	High Speed/Precision/C-Load	$3.80
2	LTC6911-2	10.9			22000	2.1 Typ		11	16		3.15	2.7	10.5	yes	MS-10	50	Dual/3-Bit Gain Control/0 to 64 V/V	$2.00
2	LT1632	12		1.6	1350	15	2200	45	27	20	5.2	2.6	36	yes	DIP-8/SO-8	10	Low Distortion/High Speed/RRIO	$3.05
2	LT1215	12	0.4	0.5	300	2.5	500	23	30	30	6.6	2.5	36	ss	DIP-8/SO-8	1000	Precision/Fast/CM to V^-	$2.85
2	LT1211	12	0.4	0.2	150	1.5	100	13	7	20	1.8	2.5	36	ss	DIP-8/SO-8	8000	Precision/Single Supply/Wide V_{SUPPLY}	$2.85
2	LT1498	12	0.25	0.3	475	2.5	650	10.5	4.5	12.5	2.2	2.2	36	yes	DIP-8/SO-8	30000	Stable with Large C-Load	$2.96
2	LT1057	13	0.42	0.0015	450	10	0.05	5	14	20 Typ	2.5	8	40		DIP-8/SO-8/SOW-16	8000	High Speed JFET Input	$2.45
2	LTC6081	13	1.3	0.0005	70	0.8	0.001	3.6	1	17 Typ	0.33 Typ	2.7	5.5	yes	MS-8/DFN-10		Precision Dual/Quad CMOS Rail-to-Rail Input/Output Amplifiers	$1.74
2	LT1457	13	2	0.0015	450	10	0.05	1	4	6	3	9	40		DIP-8/SO-8	10000	JFET with Excellent C-Load Stability	$2.35
2	LT1352	14		0.5	600	8	50	3	200	30	0.33	5	36		DIP-8/SO-8	All	High Speed/Precision/C-Load	$3.80
2	LT1881	14	0.5	0.03	50	0.8	0.2	1	0.35	5	0.9	2.4	40	out	DIP-8/SO-8	1000	Picoamp Input Current/Precision	$2.75
2	LT1024	14	0.5	0.02	50	1.5	0.12	1	0.2	10 Typ	0.6	4	40		DIP-14	1000	Low V_{OS}/Low Power	$4.75
2	LT1112	14	0.3	0.0008	60	0.5	0.25	0.75	0.3	5.5	0.4	2	40		DIP-8/SO-8	All	Low Power/Matching Specs/C-Load	$2.35
2	LT6011	14	0.4	0.1	60	0.8	0.3	0.33	0.09	1	0.15	2.4	40	out	DFN-8/SO-8/MS-8	500	Micropower/Precision/RRO	$1.65
2	LTC6912-1	15.1	2.6		22000	1.75 Typ		30	16	35 Typ	2.75	2.7	10.5	yes	DFN-12/SSOP-16	50	Dual PGA/Serial SPI/A_V=0 to 100V/V	$2.15
2	LTC6912-2	15.1	5.6		22000	1.75 Typ		30	16	35 Typ	2.75	2.7	10.5	yes	DFN-12/SSOP-16	50	Dual PGA/Serial SPI/A_V=1 to 64V/V	$2.15
2	LT1810	16	8	5	2500	25	8000	160	300	45	17	2.3	12.6	yes	MS-8/SO-8	1000	Low Distortion/High Speed/Low Noise	$2.65
2	LT1492	16.5	0.33	0.14	180	3	100	4.5	1.8	20	0.55	2.1	36	ss	SO-8/DIP-8	150	Single Supply/Low Power/Precision	$3.45
2	LTC6078	18	1		25	0.7	0.001	0.75	0.05	5	0.072	2.7	6	yes	MS-8/DFN-10	200	Micropower/Precision/RRIO	$1.49
2	LT1638	20	1	0.3	600	6	50	1.2	0.38	15	0.23	2.2	44	yes	DFN-8/DIP-8/MS-8/SO-8	6000	High Voltage/Over-The-Top/Low Power	$1.95
3	LT1260	3.6		1.3	12000	5 Typ		130	1600	30	7.5	4	36		DIP-16/SO-16	1000	Low Cost High Voltage CFA/Shutdown	$2.60
3	LT6559	4.5		6	10000	3.9 Typ		300	500	80 Typ	6.1	4	12		QFN-16	1000	Low Cost 5V/±5V Triple Video Amp	$0.95
3	LT1399	4.5		6	10000	15		300	800	80	6.5	3	12.6		SSOPN-16/SO-16	1000	0.1dB Gain Flatness to 150 MHz	$2.45
3	LT1399HV	4.5		6	10000	15		300	800	80	7	3	15.5		SO-16	1000	0.1dB Gain Flatness to 150MHZ	$3.05
3	LT6555	9		3.5	16000			650	2200	50	12	4.5	12.6		SSOP-24/QFN-24	10	Triple 2:1Video Multiplexer/A_V=2	$2.75
3	LT6553	9		4	10000		50000	650	2500	50	11	4	13.2		SSOP-16	10	High Speed Video Amp/A_V=2	$2.50
3	LT6556	11		3.5	67000			750	2100	50	13	4.5	12.6		SSOP-24/QFN-24	10	Triple 2:1Video Multiplexer/A_V=1	$2.75
3	LT6557	12		20	40000		70000 Typ	500	2200	70	25		7.5		SSOP-16/DFN-16		Single Supply Video Amp/A_V=2	$2.50
3	LT6550	12		8	35000		65000	110	340	45	11.5	3	12.6	out	MS-10	150	3V RGB Driver with A_V=2	$1.75
3	LT6554	20		3.5	35000		50000	650	2500	50	10	4	13.2		SSOP-16	12	High Speed CFA Video Buffer	$2.50
4	LT6232	1.1	0.18	1	350	3	10000	215	70	30	3.75	3	12.6	out	SSOP-16	1000	Ultralow Noise/Low Power/High Speed	$3.30
4	LT6204	1.9	0.8	0.75	500	24	7000	100	25	30	3.5	2.5	12.6	yes	SO-14/SSOPN-16	1000	Low Noise/Low Power/RRIO	$4.50
4	LT6235	1.9	0.22	0.43	350	3	3000	60	17	40	1.25	3	12.6	out	SSOP-16	1000	Ultralow Noise/Low Power	$4.15
4	LT1127	2.7	0.07	0.3	90	1	20	65	11	6.25	3.1	8	44		DIP-14/SOW-16	15	Low Noise/65MHz GBW/Precision	$5.70
4	LT1125	2.7	0.07	0.3	90	1	20	12.5	4.5	6.25	2.75	8	44		DIP-14/SOW-16	15	Low Noise/Low 1/f Corner/Precision	$5.70
4	LT1254	3		1.5	15000			250	250	30	11	4	28		SO-14/DIP-14	100	High Voltage Quad Video Amp	$4.40
4	LT1230	3.2		1.4	10000	6 Typ		100	700	30	9.5	4	36		DIP-14/SO-14	2000	General Purpose High Voltage CFA	$7.00

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

LOW NOISE OP AMPS ($e_n \leq 20nV/\sqrt{Hz}$)

† Amplifiers Per Package	Part Number	†† E_{NOISE} Typ 25°C (nV/√Hz)	LF E_{NOISE} Typ 25°C (μV_{P-P})	I_{NOISE} Typ 25°C (pA/√Hz)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Features	Price 1K Qty
4	LT1724	3.8		1.2	400	7	300	200	70	35	4.5	4.6	12.6		SO-14	100	Low Noise at Video Speed/Precision	$2.19
4	LT1679	3.9		0.3	100	3	20	20	6	15	3.4	3	36	yes	SO-14	500	Very Low 1/f Corner Frequency	$3.85
4	LT1397	4.5		6	10000	15		400	800	80	6.5	3	12.6		DFN-14/SO-14/SSOPN-16	1000	Quad CFA/100MHz 0.1dB BW	$2.75
4	LT1817	6		1.3	1500	15	8000	220	1500	50	7	2.5	12.6		SO-14/SSOPN-16	10	High Slew Rate VFB	$2.05
4	LT1631	6	0.3	0.9	525	5.5	1000	30	9.2	20	4.4	2.6	36	yes	SO-14	300	Low Distortion/High Speed/RRIO	$5.60
4	LTC6242	7	0.55	0.00056	150	2.5	0.075	18	10	15	2.2	2.8	6	out	DFN-16/SSOP-16	200	1pA Input Bias Current CMOS Amp	$2.25
4	LTC6242HV	7	0.55	0.00056	200	2.5	0.075	18	10	15	2.2	2.8	11	out	DFN-16/SSOP-16	200	1pA Input Bias Current CMOS Amp	$3.30
4	LT6301	8		0.8	5000	4 Typ	4000	200	600	500	13.5	8	27		TSSOP-28	30	Dual xDSL Driver	$6.20
4	LT1814	8		1	1500	15	4000	100	750	40	3.6	2.5	12.5		SO-14/SSOPN-16	100	High Speed/Power/Low Offset	$1.95
4	LT1359	8		0.8	600	8	500	25	600	24	2.5	5	36		SO-16/SO-14/DIP-14	All	High Speed/Precision/C-Load	$6.50
4	LT1802	8.5	1.4	1	350	5	250	80	25	20	2	2.3	12.6	yes	SO-14	1000	High Speed/Power/Precision/RRIO	$3.50
4	LT6207	9	2	4	4500	18	30000	100	600	25	5.6	3	12.6	out	SSOPN-16	1000	3V 100MHz Single Supply Video Amp	$1.55
4	LT1365	9		1	1500	13	2000	70	1000	50	7.2	3	36		DIP-14/SO-16	All	High Speed/Precision/C-Load	$6.45
4	LT1362	9		0.9	1000	12	1000	50	800	26	4.8	5	36		SO-16/DIP-14	All	High Speed/Precision/C-Load	$6.00
4	LT1885	9.5	0.4	0.05	80	0.8	0.9	2	0.9	15	0.9	2.4	40	out	SO-14	500	Picoamp Input Current/Precision	$4.85
4	LT6222	10	0.5	0.8	350	5	150	60	20	20	1	2.2	12.6	yes	SSOP-16	7000	Precision/Low Power/RRIO	$2.95
4	LT1214	10	0.2	0.2	275	3	200	28	8.5	30	3.8	2.5	36	ss	DIP-14/SO-16	1000	Precision/Fast CM to V^-	$5.10
4	LT1356	10		0.6	800	8	300	12	400	25	1.25	5	36		SO-16/DIP-14	All	High Speed/Precision/C-Load	$6.45
4	LT6551	12		8	35000		65000	110	340	45	11.5	3	12.6	out	MS-10	150	3V RGB+Sync Driver with A_V=2	$1.95
4	LT1633	12	0.4	1.6	1350	15	2200	45	27	20	5.2	2.6	36	yes	SO-14	10	Low Distortion/High Speed/RRIO	$5.70
4	LT1216	12	0.4	0.5	450	5	600	23	30	30	6.6	2.5	36	ss	DIP-14/SO-16	1000	Precision/Fast/CM to V^-	$5.10
4	LT1212	12	0.25	0.2	275	3	125	13	7	20	1.8	2.5	36	ss	DIP-14/SO-16	8000	Precision/Single Supply/Wide V_{SUPPLY}	$5.10
4	LT1499	12	0.4	0.3	475	2.5	650	10.5	4.5	12.5	2.2	2.2	36	yes	SO-14	30000	Stable with Large C-Load	$5.60
4	LT1058	13	2.4	0.0015	600	15	0.05	5	14	20 Typ	2.5	8	40		DIP-14/SOW-16	8000	Low Offset JFET Input	$4.20
4	LTC6082	13	1.3	0.0005	70	0.8	0.001	3.6	1	17 Typ	0.33 Typ	2.7	5.5	yes	MS-8, DFN-10		Precision Quad CMOS Rail-to-Rail Input/ Output Amplifiers	$2.97
4	LT1353	14		0.5	600	8	50	3	200	30	0.33	5	36		SO-14	All	High Speed/Precision/C-Load	$6.70
4	LT1882	14	0.5	0.3	80	0.8	0.5	1	0.35	5	0.9	2.4	40	out	SO-14	1000	Picoamp Input Current/Precision	$4.85
4	LT1114	14	0.3	0.008	60	1.1	0.25	0.75	0.3	5.5	0.4	2	40		DIP-14/SO-16	All	Low Power/Matching Specs/C-Load	$4.40
4	LT6012	14	0.4	0.1	60	0.8	0.3	0.33	0.09	1	0.15	2.4	40	out	SO-14/SSOPN-16	500	Micropower/Precision/RRO	$2.95
4	LT1493	16.5	0.33	0.14	130	3	100	4.5	1.8	20	0.55	2.1	36	ss	SO-16	150	Single Supply/Low Power/Precision	$6.40
4	LTC6079	18	1		25	1.4	0.001	0.75	0.05	5	0.072	2.7	6	yes	DFN-16/SSOPN-16	200	Micropower/Precision/RRIO	$2.53
4	LT1639	20	1	0.3	600	6	50	1.075	0.38	15	0.23	2.2	44	yes	DIP-14/SO-14	6000	High Voltage/Over-The-Top/Low Power	$3.30

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

Note:
1. ss = Input common mode range includes negative supply rail

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† I_{BIAS} Max 25°C (nA)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Type[2]	Features	Price 1K Qty
1	LTC6240	0.001	175	2.5	18	10	80	1600	7	0.00056	2.4	2.8	6	out	SOT-23/SO-8	VFB	18MHz/Low Noise/RRO/CMOS	$0.77
1	LTC6240HV	0.001	250	2.5	18	10	83	2700	7	0.00056	3.3	2.8	11	out	SOT-23/SO-8	VFB	18MHz/Low Noise/RRO/CMOS	$1.40
1	LT1793	0.01	800	13	4.2	3.4	83	4500	6	0.0008	5.2	10	40		DIP-8/SO-8	JFET	FET Input/Precision/Low Distortion	$2.25
1	LTC1050	0.03	5	0.05	2.5	4	114	100000	90	0.0018	1.5	4.75	18	out	DIP-8/DIP-14/SO-8	ZD	Zero-Drift No External Capacitors	$2.15
1	LTC1052	0.03	5	0.05	1.2	4	120	100000	30	0.0006	2	4.75	18	out	DIP-8/DIP-14/SOW-16	ZD	Low Noise Zero-Drift	$4.10
1	LT1102	0.04	600	8	3.5	30	84		19	1.5	5	18	40		DIP-8	IA	JFET Input IA/Gain of 10 or 100	$4.75
1	LT1055	0.05	700	12	4.5	12	86	400	15	0.0018	4	8	40		DIP-8/SO-8	JFET	Low Offset JFET	$1.90
1	LTC1049	0.05	10	0.1	0.8	0.8	110	31622	80	0.002	0.3	4.75	18	out	DIP-8/SO-8	ZD	Zero-Drift no External Capacitors	$2.15
1	LTC2050HV	0.05	3	0.03	3	2	120	10000		0.003	1.5	2.7	12	out	SO-8/SOT23-5/SOT23-6	ZD	Zero-Drift 3V/5V/±5V Operation	$1.45
1	LT1022	0.05	250	5	8.5	26	86	400	14	0.0018	7	8	40		DIP-8	JFET	High Speed JFET Input	$2.80
1	LT1056	0.05	800	12	5.5	14	86	400	15	0.0018	7	8	40		DIP-8/SO-8	JFET	Low Offset JFET	$1.90
1	LTC1100	0.05	10	0.1	1.8	3	104		38		2.8	4	18	out	DIP-8/SOW-16	IA	Zero-Drift/Fixed Gain of 10 and 100	$6.15
1	LTC2050	0.075	3	0.03	3	2	120	10000		0.003	1.2	2.7	7	out	SO-8/SOT23-5/SOT23-6	ZD	Zero-Drift Op Amp 3V/5V Operation	$1.15
1	LT1122	0.075	600	18	14	80	83	500	14	0.002	10	20	40		DIP-8/SO-8	JFET	Setting Guaranteed to 0.01%/FET Input	$2.45
1	LT6003	0.09	500	5	0.002	0.0008	88	500	325	0.012	0.001	1.6	16	yes	DFN-4/SOT23-5	VFB	1.6V, 1µA Precision RRIO	$0.72
1	LT1008	0.1	120	1.5	1	0.2	114	2000	14	0.02	0.6	4	40		DIP-8/SO-8	VFB	Low Bias Current/External Compensation	$2.95
1	LT1012	0.1	25	0.6	1	0.2	114	2000	14	0.02	0.5	2.4	40		DIP-8/SO-8	VFB	Low V_{OS} Stable with any C-Load	$1.60
1	LTC1150	0.1	10	0.05	2.5	3	110	1000000		0.0018	1.5	4.75	32	ss	DIP-8/SO-8	ZD	Auto Zero Amplifier Works on 30V+	$3.70
1	LTC1152	0.1	10	0.1	0.7	0.5	115	3162	130	0.6	3	3	14	yes	DIP-8/SO-8	ZD	Zero-Drift C-Load Stable with Ext. RC	$3.15
1	LT6010	0.11	35	0.8	0.33	0.09	107	2000	14	0.1	0.15	2.7	40	out	DFN-8/SO-8	VFB	Micropower/Precision/RRO	$1.10
1	LTC2054	0.15	3	0.03	0.5	0.5	120	10000			0.175	2.7	7	out	SOT23-5	ZD	Micropower Zero-Drift 3V/5V Operation	$1.00
1	LTC2054HV	0.15	5	0.03	0.5	0.5	120	10000			0.21	2.7	12	out	SOT23-5	ZD	Micropower Zero-Drift ±5V Operation	$1.25
1	LTC1250	0.2	10	0.05	1.5	10	110	316227	15	0.004	4	4.75	18		DIP-8/SO-8	ZD	Low Noise/Zero-Drift Bridge Amp	$2.85
1	LTC1992	0.25	2500	0.65 Typ	4	0.75	69	10	18	1	1	2.4	12	out	MS-8	DIFF	Fully Differential In/Out	$1.65
1	LTC1992-1	0.25	2500	0.65 Typ	4	0.75	55		45		1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=1	$3.95
1	LTC1992-2	0.25	2500	0.65 Typ	4	0.75	55		45		1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=2	$3.95
1	LTC1992-5	0.25	2500	0.65 Typ	4	0.75	55		45		1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=5	$3.95
1	LTC1992-10	0.25	2500	0.65 Typ	4	0.75	55		45		1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=10	$3.95
1	LT1097	0.25	50	1.2	0.7	0.2	115	2500	14	0.008	0.56	2	40		DIP-8/SO-8	VFB	Low Cost/C-Load stable	$1.75
1	LT1168	0.25	40	0.3	0.4	0.5	126		10	0.074	0.53	4.6	40		DIP-8/SO-8	IA	Precision IA/Low Bias Current/Low Power	$3.70
1	LT6013	0.25	35	0.8	1.6	0.2	107	2000	9.5	0.15	0.165	2.7	40	out	DFN-8/SO-8	VFB	Micropower/Precision/RRO/A_V>5	$1.10
1	LT1167	0.35	40	0.3	1	1.2	126		7.5	0.124	1.3	4.6	40		DIP-8/SO-8	IA	Precision/Low Bias Current IA	$3.20
1	LT1792	0.8	600	10	5.6	3.4	85	4800	4.2	0.01	5.2	10	40		DIP-8/SO-8	JFET	FET Input/Low Distortion/Precision	$2.25
1	LT1880	0.9	150	1.2	1.1	0.55	116	1600	13	0.07	1.9	2.4	40	out	SOT23-5	VFB	Picoamp Input Current/Precision	$1.75
1	LT1494	1	375	2	0.0027	0.001	100	500	185	0.01	0.0015	2.1	36	yes	DIP-8/MS-8/SO-8	VFB	Ultralow Power/Rail-to-Rail/Precision	$1.65
1	LT1672	1	375	2	0.012	0.005	90	500	185	0.01	0.002	2.1	36	yes	DIP-8/MS-8/SO-8	VFB	Ultralow Power/Over-The-Top Inputs	$1.65
1	LT1001	2	25	0.6	0.8	0.25	114	800	9.6	0.1	2.5	6	44		DIP-8/SO-8	VFB	General Purpose/High Precision	$1.65
1	LT1920	2	125	1	0.8	1.2	110		7.5	0.124	1.3	4.6	40		DIP-8/SO-8	IA	Resistor Programmable IA	$3.05
1	LT1635	4.5	1300	7	0.175	0.045	94	450	50	0.05	0.2	1.1	14	out	DIP-8/SO-8	VFB	Op Amp and Reference/LM10 Pinout	$1.75
1	LT1996	5	50	1	0.56	0.12	80		18		0.11	2.7	36	yes	MS-10/DFN-10	SGA	Precision/A_V=9 to 117	$1.39
1	LT1991	5	50	1	0.56	0.12	80		46		0.11	2.4	40	yes	MS-10/DFN-10	SGA	Precision/Gain Select Range –13 to 14	$1.39
1	LT6000	5	750	5	0.05	0.015	90	65	75	0.025	0.016	1.8	18	yes	DFN-6	VFB	1.8V/13µA Precision RRIO	$0.80
1	LT1636	8	225	5	0.2	0.07	84	2000	52	0.035	0.055	2.6	44	yes	DFN-8/DIP-8/MS-8/SO-8	VFB	Over-The-Top Micropower Op Amp	$1.45
1	LT1101	8	160	2	0.37	0.1	100		43	0.06	0.13	1.8	44		DIP-8/SOW-16	IA	Micropower Single Supply IA/A_V=10 or 100	$4.75
1	LT1077	9	40	1.6	0.23	0.08	97	1000	27	0.065	0.06	2.2	44	ss	DIP-8/SO-8	VFB	High Precision Micropower Single Supply	$1.60
1	LTC2053	10	10	0.05	0.2	0.2	105		50		1.3	2.7	11	yes	DFN-8/MS-8	ZD/IA	Zero-Drift IA	$3.20
1	LTC6800	10	100	0.25	0.2	0.2	90		50		1.2	2.7	5.5	yes	DFN-8/MS-8	IA	Zero-Drift RRIO IA	$1.55
1	LTC6915	10	10	0.05	0.2	0.2	105		50		1.6	2.7	11	yes	DFN-12/SSOP-16	IA/ZD	Serial or Par. PGA/A_V=0 to 4096 V/V	$2.44
1	LTC2053-SYNC	10	10	0.05	0.2	0.2	105		50		1.3	2.7	11	yes	MS-8	ZD/IA	Zero-Drift IA/Freq. Set with Ext. Clock	$3.40
2	LTC6078	0.001	25	0.7	0.75	0.05	95	3162	18		0.072	2.7	6	yes	MS-8/DFN-10	VFB	Micropower/Precision/RRIO	$1.49
2	LTC6081	0.001	70	0.8	3.6	1	100	1000	13	0.0005	0.425	2.7	5.5	yes	DFN-10/MS-8	VFB	Precision/RRIO/Picoamp Input Current	$1.74

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

LOW INPUT BIAS CURRENT OP AMPS (I_{BIAS} ≤ 10nA MAX)

† Amplifiers Per Package	Part Number	†† I_{BIAS} Max 25°C (nA)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Type[2]	Features	Price 1K Qty
2	LTC6084	0.001 Typ	750	5	1.5	0.5	64	2000	31	0.00056	0.13	2.5	5.5	yes	3×3 DFN-8/MS-8	VFB	Precision/1.5MHz/RRIO/Low Bias Current	$0.91
2	LTC6087	0.001 Typ	750	5	14	7.2	70	6000	12	0.0056	1.3	2.7	5.5	yes	MS-8/DFN-10	VFB	Picoamp Input Current/RRIO	$0.91
2	LT1464	0.002	800	20	1	0.9	76	1000	24	0.0004	0.2	10	40		DIP-8/SO-8	JFET	JFET with Excellent C-Load Stability	$2.50
2	LT1462	0.002	800	20	0.175	0.13	76	600	76	0.0005	0.045	10	40		DIP-8/SO-8	JFET	JFET with Excellent C-Load Stability	$2.50
2	LT1169	0.02	2000	50	5.3	4.2	82	4500	6	0.001	6.5	9	40		DIP-8/SO-8	VFB	Low Noise JFET	$3.85
2	LTC1047	0.03	10	0.05	0.2	0.2	110	31622		0.0015	0.275	4.75	16	out	DIP-8/SOW-16	ZD	Zero-Drift no External Capacitors	$4.85
2	LT1057	0.05	450	10	5	14	86	350	13	0.0015	2.5	8	40		DIP-8/SO-8/SOW-16	JFET	High Speed JFET Input	$2.45
2	LT1457	0.05	450	10	1.7	4	86	300	13	0.0015	3	9	40		DIP-8/SO-8	JFET	JFET with Excellent C-Load Stability	$2.35
2	LTC1051	0.065	5	0.05	2.5	4	106	100000	70	0.0022	2	4.75	16.5	out	DIP-8/SOW-16	ZD	Zero-Drift no External Capacitors	$4.05
2	LTC6241	0.075	125	2.5	18	10	80	1600	7	0.00056	2.2	2.8	6	out	DFN-8/SO-8	VFB	1pA Input Bias Current CMOS Amp	$1.25
2	LTC2051	0.075	3	0.03	3	2	120	10000			1.2	2.7	7	out	DFN-8/MS-8/MS-10/SO-8	ZD	Zero-Drift/3V/5V Operation	$2.00
2	LTC6244	0.075	100	2.5	50	35	74	2500	8	0.00056	7.4	2.8	7	out	DFN-8/MSOP-8	VFB	50MHz/Low Noise/RRO/CMOS	$1.65
2	LTC6244HV	0.075	100	2.5	50	35	74	2500	8	0.00056	7.4	2.8	12	out	DFN-8/MSOP-8	VFB	50MHz/Low Noise/RRO/CMOS	$2.35
2	LTC6241HV	0.075	175	2.5	18		80	1600	7	0.00056	2.2	2.8	11	out	DFN-8/SO-8	VFB	1pA Input Bias Current CMOS Amp	$2.20
2	LT6004	0.09	500	5	0.002	0.0008	88	150	325	0.012	0.001	1.6	16	yes	DFN-8/MS-8	VFB	1.6V, 1µA Precision RRIO	$1.10
2	LTC1151	0.1	5	0.05	2	2.5	106	10000		0.0022	1.5	4.75	36	ss	DIP-8/SOW-16	ZD	Auto Zero Amplifier Works on 30V+	$5.80
2	LT1024	0.12	50	1.5	1	0.2	112	2000	14	0.02	0.6	4	40		DIP-14	VFB	Low V_{OS}/Low Power	$4.75
2	LTC2051HV	0.15	3	0.03	3	2	125	10000			1.5	2.7	12	out	DFN-8/MS-8/MS-10/SO-8	ZD	Zero-Drift 3V/5V/±5V Operation	$2.50
2	LTC2055	0.15	3	0.03	0.5	0.5	120	10000			0.15	2.7	7	out	DFN-8/MS-8	ZD	Micropower Zero-Drift 3V/5V Operation	$1.60
2	LTC2055HV	0.15	5	0.03	0.5	0.5	120	10000			0.18	2.7	12	out	DFN-8/MS-8	ZD	Micropower Zero-Drift ±5V Operation	$2.00
2	LT1881	0.2	50	0.8	1	0.35	106	1600	14	0.03	0.9	2.4	40	out	DIP-8/SO-8	VFB	Picoamp Input Current/Precision	$2.75
2	LT1112	0.25	60	0.5	0.75	0.3	120	5000	14	0.0008	0.4	2	40		DIP-8/SO-8	VFB	Low Power/Matching Specs/C-Load Stable	$2.35
2	LT6011	0.3	60	0.8	0.33	0.09	107	2000	14	0.1	0.15	2.4	40	out	DFN-8/SO-8/MS-8	VFB	Micropower/Precision/RRO	$1.65
2	LT1884	0.4	50	0.8	2	0.9	108	1600	9.5	0.05	0.9	2.4	40	out	DIP-8/SO-8	VFB	Picoamp Input Current/Precision	$2.75
2	LT6014	0.4	60	0.8	1.6	0.2	107	2000	9.5	0.15	0.165	2.7	40	out	DFN-8/SO-8	VFB	Micropower/Precision/RRO/A_V>5	$1.65
2	LT1113	0.45	1500	1.5	5.6	3.9	85	4800	4.5	0.01	6.25	9	40		DIP-8/SO-8	JFET	Low Noise and Low Offset/JFET Input	$3.15
2	LT1495	1	375	2	0.0027	0.001	100	500	185	0.01	0.0015	2.1	36	yes	DIP-8/SO-8	VFB	Ultralow Power/Rail-to-Rail/Precision	$2.45
2	LT1673	1	375	2	0.012	0.005	90	500	185	0.01	0.002	2.1	36	yes	DIP-8/SO-8	VFB	Ultralow Power/Over-The-Top Inputs	$2.45
2	LT1002	3	60	0.9	0.8	0.25	110	800	9.6	0.1	2.5	6	44		DIP-14	VFB	High CMRR and PSRR	$2.85
2	LT6001	5	600	5	0.05	0.015	82	65	75	0.025	0.016	1.8	18	yes	MS-8/DFN-10	VFB	1.8V/13µA Precision RRIO	$1.25
2	LT2178	5	70	1.8	0.06	0.025	93	700	49	0.01	0.018	2.2	44	ss	SO-8	VFB	Micropower Single Supply	$3.50
2	LT1178	5	70	3	0.085	0.04	97	2500	49	0.00001	0.017	2	44	ss	DIP-8/SO-8/SOW-16	VFB	Precision/Micropower/Single Supply	$2.95
2	LT1490A	8	500	4	0.18	0.06	84	1500	50	0.015	0.055	2	44	yes	DFN-8/DIP-8/MS-8/SO-8	VFB	RRIO/Over-The-Top	$1.75
2	LT2078	8	70	1.8	0.2	0.07	95	1000	28	0.02	0.05	2.3	44	ss	SO-8	VFB	Micropower/Single Supply/Std Pinout	$3.50
2	LT1078	8	70	1.8	0.2	0.07	97	1000	28	0.06	0.05	2.2	44	ss	DIP-8/SO-8	VFB	Precision/Micropower/Single Supply	$2.70
4	LTC6079	0.001	25	1.4	0.75	0.05	95	3162	18		0.072	2.7	6	yes	DFN-16/SSOP-16	VFB	Micropower/Precision/RRIO	$2.53
4	LTC6082	0.001	70	0.8	3.6	1	100	1000	13	0.0005	0.425	2.7	5.5	yes	DFN-16/SSOP-16	VFB	Precision/RRIO/Picoamp Input Current	$2.97
4	LTC6085	0.001 Typ	750	5	1.5	0.5	64	2000	31	0.00056	0.13	2.5	5.5	yes	5×3 DFN-16, SSOP-16	VFB	Precision/1.5MHz/RRIO/Low Bias Current	$1.40
4	LTC6088	0.001 Typ	750	5	14	7.2	70	6000	12	0.0056	1.3	2.7	5.5	yes	SSOP-16/DFN-16	VFB	Picoamp Input Current/RRIO	$1.40
4	LT1463	0.002	800	20	0.125	0.13	74	600	76	0.0005	0.045	10	40		DIP-14/SO-14	JFET	JFET with Excellent C-Load Stability	$4.30
4	LT1465	0.002	800	20	1	0.9	74	900	24	0.0004	0.2	10	40		DIP-14/SO-14	JFET	JFET with Excellent C-Load Stability	$4.30
4	LT1058	0.05	600	15	5	14	84	350	13	0.0015	2.5	8	40		DIP-14/SOW-16	JFET	Low Offset JFET Input	$4.20
4	LTC1053	0.065	5	0.05	2.5	4	106	100000	70	0.0022	2	4.75	16.5	out	DIP-14/SOW-18	ZD	Zero-Drift No External Capacitors	$7.50
4	LTC6242	0.075	150	2.5	18	10	80	1600	7	0.00056	2.2	2.8	6	out	DFN-16/SSOP-16	VFB	1pA Input Bias Current CMOS Amp	$2.25
4	LTC6242HV	0.075	200	2.5	18	10	80	1600	7	0.00056	2.2	2.8	11	out	DFN-16/SSOP-16	VFB	1pA Input Bias Current CMOS Amp	$3.30
4	LTC2052	0.075	3	0.03	3	2	120	10000			1.2	2.7	7	out	SO-14/SSOP-16	ZD	Zero-Drift Op Amp 3V/5V Operation	$3.65
4	LT6005	0.09	650	5	0.002	0.0008	88	150	325	0.012	0.001	1.6	16	yes	TSOP-16/DFN-16	VFB	1.6V, 1µA Precision RRIO	$1.75
4	LTC2052HV	0.15	3	0.03	3	2	125	10000			1.5	2.7	12	out	SO-14/SSOP-16	ZD	Zero-Drift 3V/5V/±5V Operation	$4.55
4	LT1114	0.25	60	1.1	0.75	0.3	120	5000	14	0.008	0.4	2	40		DIP-14/SO-16	VFB	Low Power/Matching Specs/C-Load Stable	$4.40
4	LT6012	0.3	60	0.8	0.33	0.09	107	2000	14	0.1	0.15	2.4	40	out	SO-14/SSOPN-16	VFB	Micropower/Precision/RRO	$2.95
4	LT1882	0.5	80	0.8	1	0.35	106	1600	14	0.3	0.9	2.4	40	out	SO-14	VFB	Picoamp Input Current/Precision	$4.85
4	LT1885	0.9	80	0.8	2	0.9	108	1600	9.5	0.05	0.9	2.4	40	out	SO-14	VFB	Picoamp Input Current/Precision	$4.85
4	LT1674	1	375	2	0.012	0.005	90	500	185	0.01	0.002	2.1	36	yes	DIP-14/SO-14	VFB	Ultralow Power/Over-The-Top Inputs	$3.25
4	LT1496	1	375	2	0.0027	0.001	100	500	185	0.01	0.0015	2.1	36	yes	DIP-14/SO-14	VFB	Ultralow Power/Precision/RRIO	$3.25

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

LOW INPUT BIAS CURRENT OP AMPS (I_{BIAS} ≤ 10nA MAX)

† Amplifiers Per Package	Part Number	†† I_{BIAS} Max 25°C (nA)	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	CMRR Min 25°C (dB)	A_{VOL} Typ 25°C (V/mV)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{NOISE} Typ 25°C (pA/√Hz)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Type[2]	Features	Price 1K Qty
4	LT2179	5	100	3	0.06	0.025	93	700	49	0.01	0.018	2.2	44	ss	SO-14	VFB	Micropower Single Supply	$6.30
4	LT6002	5	750	5	0.05	0.015	82	65	75	0.025	0.016	1.8	18	yes	SSOP-16/DFN-16	VFB	1.8V/13µA Precision RRIO	$2.00
4	LT1179	5	100	0.3	0.085	0.04	97	2500	49	0.00001	0.017	2	44	ss	DIP-14/SOW-16	VFB	Precision/Micropower/Single Supply	$3.70
4	LT2079	8	110	3	0.2	0.07	95	1000	28	0.02	0.05	2.3	44	ss	SO-14	VFB	Micropower Single Supply	$5.95
4	LT1079	8	100	1.8	0.2	0.07	97	1000	28	0.06	0.05	2.2	44	ss	DIP-14/SOW-16	VFB	Precision/Micropower/Single Supply	$3.40
4	LT1491A	8	1000	4	0.18	0.06	84	1500	50	0.015	0.055	2	44	yes	DIP-14/SO-14/DFN-16	VFB	RRIO/Over-The-Top	$3.00

† Primary Sort Column
†† Secondary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, SGA = Selectable Gain Difference Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifier, VGA = Variable Gain Amplifier
3. C.F. = Contact Factory

SOT-23 AND DFN OP AMPS

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	Rail-to-Rail I/O[1]	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Package	C-Load Stable (pF)	Type[2]	Features	Price 1K Qty
1	LTC6416	5000		10000	2000	3400	1.8	20	51	no		2.7	3.9	DFN-10		DIFF	16-Bit, 2GHz Differential ADC Buffer	$3.50
1	LT6200-10	1000	24	40000	1600	450	0.95	60	23	yes	yes	2.5	12.6	SO-8/SOT23-6	1000	VFB	Low Noise/RRIO/High Speed/A_V>10	$1.50
1	LT6230-10	500	3	10000	1450	320	1.1	30	3.75	yes	out	3	12.6	SOT23-6	2000	VFB	Ultralow Noise/Low Power/A_V>10	$1.50
1	LT6200-5	1000	24	40000	800	250	0.95	60	23	yes	yes	2.5	12.6	SO-8/SOT23-6	1000	VFB	Low Noise/RRIO/High Speed/A_V>5	$1.50
1	LT1395	10000	15		400	800	4.5	80	6.5	yes		3	12.6	SO-8/SOT23-5/SOT23-6	1000	CFA	CFA/100MHz 0.1dB Bandwidth	$1.30
1	LT1818	1500	15	8000	400	2500	6	40	10	no		3.5	12.6	SO-8/SOT23-5	20	VFB	High Slew Rate VFB	$0.95
1	LT6233-10	500	3	3000	375	115	1.9	40	1.25	yes	out	3	12.6	SOT23-6	1000	VFB	Low Noise/Low Power/A_V>10	$1.90
1	LT1806	550	5	4000	325	125	3.5	35	13	yes	yes	2.5	12.6	SO-8/SOT23-6	1000	VFB	High Speed/Precision/Low Noise	$2.10
1	LT1815	1500	15	8000	220	1500	6	50	7.8	no		4	12.6	SO-8/SOT23-5/SOT23-6	10	VFB	High SR VFB with Prog. Supply Current	$0.88
1	LT6230	500	3	10000	215	70	1.1	30	3.75	yes	out	3	12.6	SOT23-6	1000	VFB	Ultralow Noise/Low Power/High Speed	$1.25
1	LT6210	6000			200	700	6.5	75	8.3	no	out	3	13.2	SOT23-6	10000	CFA	Adjustable Speed and Power CFA	$1.20
1	LT1722	400	7	300	200	70	3.8	35	4.5	no		4.6	12.6	SO-8/SOT23-5	100	VFB	Low Noise at Video Speed/Precision	$0.88
1	**LT1468-2**	**75**	**2**	**40**	**200**	**30**	**5**	**15**	**5**	**no**		**9**	**36**	**DFN-8/SO-8**	**300**	**VFB**	**16-Bit Accuracy, 760ns to 0.01% Settling/A_V>2**	**$2.95**
1	LT6200	1000	24	40000	165	50	0.95	60	23	yes	yes	2.5	12.6	SO-8/SOT23-6	1000	VFB	Low Noise/RRIO/High Speed	$2.15
1	LT1809	2500	25	8000	160	300	16	45	17	yes	yes	2.5	12.6	SO-8/SOT23-6	1000	VFB	Low Distortion/High Speed/Low Noise	$1.75
1	LT6205	4500	18	30000	100	600	9	25	5.6	no	out	3	12.6	DFN-8/DIP-8/SO-8	1000	VFB	3V 100MHz Single Supply Video Amp	$0.88
1	LT1812	1500	15	4000	100	750	8	40	3.6	yes		2.5	12.6	SO-8/SOT23-5/SOT23-6	100	VFB	High Speed/Power/Low Noise	$0.88
1	LT6202	500	24	7000	100	25	1.9	30	3.5	no	yes	2.5	12.6	SO-8/SOT23-5	1000	VFB	Low Noise/Low Power/RRIO	$1.45
1	LT1468	75	2	40	90	22	5	15	5	no		9	36	DFN-8/DIP-8/SO-8	300	VFB	16-Bit Accuracy, 760ns to 0.01% Settling	$2.95
1	LT1803	2000	35	750	83	100	21	20	3	no	yes	2.3	12.6	SO-8/SOT23-5	1000	VFB	RRIO/High Speed	$1.30
1	LT1800	350	5	250	80	25	8.5	20	2	no	yes	2.3	12.6	SO-8/SOT23-5	1000	VFB	High Speed/Power/Precision/RRIO	$1.30
1	LT6552	20000	12.5 Typ	50000	75	600	55	35	13.5	yes	out	3	12.6	DFN-8/SO-8	1000	VFB	Low Power Video Difference Amp	$1.10
1	LT1994	2000	13.3 Typ	45000	70	65	3	45	18.5	yes	out	2.375	12.6	MS-8/DFN-8	25	DIFF	Low Noise/Low Distortion/Diff. In/Out	$1.65
1	LT6233	500	3	3000	60	17	1.9	40	1.25	yes	out	3	12.6	SOT23-6	1000	VFB	Ultralow Noise/Low Power/High Speed	$1.45
1	LT6220	350	5	150	60	20	10	20	1	no	yes	2.2	12.6	SO-8/SOT23-5	7000	VFB	Precision/Low Power/RRIO	$1.20
1	LT1010	150000		250000	30	200	20	150	9	no		4.5	44	DIP-8/T-5/DFN-10	330000	BUF	High Power High Speed Buffer	$2.40
1	LT1995	5000	26	600 Typ	24	1000	14	70	8.5	no		2.5	36	MS-10/DFN-10	200	SGA	Fast Diff. Amp/Integrated Resistors	$1.89
1	LTC6240	175	2.5	0.001	18	10	7	15	2.4	no	2.8	6		SOT-23/SO-8	200	VFB	18MHz/Low Noise/RRO/CMOS	$0.77
1	LTC6240HV	250	2.5	0.001	18	10	7	15	3.3	no	2.8	11		SOT-23/SO-8	200	VFB	18MHz/Low Noise/RRO/CMOS	$1.40
1	LTC6910-2	15000			13	16	9.1	9.5	3	no	yes	2.7	11	SOT23-8	50	PGA	3-Bit Gain Control/0 to 64 V/V	$1.10

† Primary Sort Column
†† Secondary Sort Column

SOT-23 AND DFN OP AMPS

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	Rail-to-Rail I/O[1]	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Package	C-Load Stable (pF)	Type[2]	Features	Price 1K Qty
1	LTC6910-1	15000			11	16	8.6	9.5	3	no	yes	2.7	11	SOT23-8	50	PGA	3-Bit Gain Control/0 to 100 V/V	$1.10
1	LTC6910-3	15000			11	16	10.6	9.5	3	no	yes	2.7	11	SOT23-8	50	PGA	3-Bit Gain Control/0 to 7 V/V	$1.10
1	LT1797	1500	20	300	10	2.25	20	25	1.5	no	yes	2.1	12.6	SOT23-5	10000	VFB	RRIO/Low Noise/C-Load Stable	$1.00
1	LTC6600-10	13000	35 Typ	85000	10		14		39	no	ss	2.7	11	SO-8/DFN-12	50	DIFF	Differential Amp and 4th Order 10MHz LP Filter	$2.95
1	LTC2050	3	0.03	0.075	3	2		2.4	1.2	yes	out	2.7	7	SO-8/SOT23-5/SOT23-6	50	ZD	Zero-Drift Op Amp 3V/5V Operation	$1.15
1	LTC2050HV	3	0.03	0.05	3	2		2.4	1.5	yes	out	2.7	12	SO-8/SOT23-5/SOT23-6	50	ZD	Zero-Drift 3V/5V/±5V Operation	$1.45
1	LT1784	3500	15	500	2.5	2.1	25	20	0.75	yes	yes	2	18	SOT23-5/SOT23-6	1000	VFB	Low Power/RRIO/Shutdown	$1.00
1	LTC6600-2.5	13000	26 Typ	35000	2.5		23		30	no	ss	2.7	11	SO-8/DFN-12	50	DIFF	Differential Amp and 4th Order 2.5MHz LP Filter	$2.95
1	LT6013	35	0.8	0.25	1.6	0.2	9.5	8	0.165	no	out	2.7	40	DFN-8/SO-8	500	VFB	Micropower/Precision/RRO/A_V>5	$1.10
1	LT1783	800	5	80	1.25	0.42	20	20	0.3	yes	yes	2.2	18	SOT23-5/SOT23-6	3000	VFB	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1880	150	1.2	0.9	1.1	0.55	13	1	1.9	no	out	2.4	40	SOT23-5	1000	VFB	Picoamp Input Current/Precision	$1.75
1	LT1637	350	3	50	1	0.35	27	15	0.25	yes	yes	1.8	44	DFN-8/DIP-8/MS-8/SO-8	2000	VFB	High Voltage/Over-The-Top/Low Power	$1.45
1	LT1996	50	1	5	0.56	0.12	18	8	0.11	no	yes	2.7	36	MS-10/DFN-10		SGA	Precision/A_V=9 to 117	$1.39
1	LT1991	50	1	5	0.56	0.12	46	8	0.11	no	yes	2.4	40	MS-10/DFN-10	100	SGA	Precision/Gain Select Range –13 to 14	$1.39
1	LTC2054	3	0.03	0.15	0.5	0.5		1	0.175	no	out	2.7	7	SOT23-5	50	ZD	Micropower Zero-Drift 3V/5V Operation	$1.00
1	LTC2054HV	5	0.03	0.15	0.5	0.5		1	0.21	no	out	2.7	12	SOT23-5	50	ZD	Micropower Zero-Drift ±5V Operation	$1.25
1	LT6010	35	0.8	0.11	0.33	0.09	14	1	0.15	yes	out	2.7	40	DFN-8/SO-8	500	VFB	Micropower/Precision/RRO	$1.10
1	LT1782	800	5	15	0.2	0.07	50	20	0.055	yes	yes	2.2	18	SOT23-5/SOT23-6	10000	VFB	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1636	225	5	8	0.2	0.07	52	12	0.055	yes	yes	2.6	44	DFN-8/DIP-8/MS-8/SO-8	10000	VFB	Over-The-Top Micropower Op Amp	$1.45
1	LTC6800	100	0.25	10	0.2	0.2	50	2.4	1.2	no	yes	2.7	5.5	DFN-8/MS-8	30	ZD/IA	Zero-Drift RRIO IA	$1.55
1	LTC2053	10	0.05	10	0.2	0.2	50	2.4	1.3	no	yes	2.7	11	DFN-8/MS-8	30	ZD/IA	Zero-Drift IA	$3.20
1	LTC6915	10	0.05	10	0.2	0.2	50	2	1.6	yes	yes	2.7	11	DFN-12/SSOP-16	30	ZD/IA	Serial or Par. PGA/A_V=0 to 4096 V/V	$2.44
1	LT6000	750	5	5	0.05	15	75	4 Typ	0.016	no	yes	1.8	18	DFN-6	800	VFB	1.8V/13µA Precision/Rail-to-Rail	$0.80
1	LT6100	300	3	10000	0.15	0.5		8	0.13	no	ss	4.1	48	DFN-8/MS-8		CSA	Precision/Gain Selectable Current Sense	$1.18
1	LTC6101	450	0.22 Typ		0.02			1	0.45	no	ss	4	60	SOT23-5/MS-8		CSA	High Voltage/High Side Current Sense	$1.04
1	LTC6101HV	300	0.2 Typ		0.02			1 Typ	0.45	no	ss	5	100	SOT23-5/MS-8		CSA	High Voltage/High Side Current Sense	$1.30
1	LTC1541	1000			0.012				0.01	no	ss	2.5	12.6	MS-8/SO-8/DFN-8		REF	Micropower Amp/Comparator and Ref	$1.50
1	LTC1542	1000			0.012	8		1.3	0.01	no	out	2.5	12.6	MS-8/SO-8/DFN-8	1000	REF	Micropower Amp/Comparator and Ref	$1.20
1	LT6003	500	5	0.09	0.002	0.0008	325	2	0.001	no	yes	1.6	16	DFN-4/SOT23-5	2000	VFB	1.6V, 1µA RRIO Precision	$0.72
2	LT1396	12000	4.6 Typ		400	800	4.5	80	6.5	no		3	12.6	DFN-8/MS-8/SO-8	1000	CFA	CFA/100MHz 0.1dB BW	$1.95
2	LT1816	1500	15	8000	220	1500	6	50	7.8	no		2.5	12.6	DFN-8/MS-8/MS-10/SO-8	10	VFB	High SR VFB with Prog Supply Current	$1.50
2	LT6231	350	3	10000	215	70	1.1	30	3.75	no	out	3	12.6	DFN-8/SO-8	1000	VFB	Ultralow Noise/Low Power/High Speed	$1.95
2	LT6211	6000			200	700	6.5	75	8.3	no	out	3	13.2	DFN-10/MS-10	10000	CFA	Adjustable Speed and Power CFA	$1.60
2	LT1739	5000	10 Typ	4000	200	600	8	500	13.5	yes		8	27	DFN-12/TSSOP-20	30	VFB	High I_{OUT}/Low Noise/High Speed	$3.55
2	**LT1469-2**	**125**	**3**	**40**	**200**	**30**	**5**	**15**	**5.2**	**no**		**9**	**36**	**DFN-12/SO-8**	**300**	**VFB**	**16-Bit Accuracy, 760ns to 0.01% Settling/A_V>2**	**$4.95**
2	LT6201	1000	24	40000	165	50	0.95	60	23	no	yes	2.5	12.6	DFN-8/SO-8	1000	VFB	Low Noise/RRIO/High Speed	$3.65
2	LT1813	1500	15	4000	100	750	8	40	3.6	no		2.5	12.6	MS-8/SO-8/DFN-8	100	VFB	High Speed/Power/Low Noise	$0.99
2	LT6203	500	24	7000	100	25	1.9	30	3.5	no	yes	2.5	12.6	DFN-8/MS-8/SO-8	1000	VFB	Low Noise/Low Power/RRIO	$2.45
2	LT1469	125	3	40	90	22	5	15	5.2	no		9	36	DFN-12/DIP-8/SO-8	300	VFB	16-Bit Accuracy, 760ns to 0.01% Settling	$4.95
2	LT1804	2000	35	750	83	100	21	20	3	no	yes	2.3	12.6	DFN-8/SO-8	1000	VFB	RRIO/High Speed	$1.95
2	LT1801	350	5	250	80	25	8.5	20	2	no	yes	2.3	12.6	DFN-8/MS-8/SO-8	1000	VFB	High Speed/Power/Precision/RRIO	$1.95
2	LT6221	350	5	150	60	20	10	20	1	no	yes	2.2	12.6	DFN-8/SO-8	7000	VFB	Precision/Low Power/RRIO	$1.85
2	LT6234	350	3	3000	60	17	1.9	40	1.25	no	out	3	12.6	DFN-8/SO-8	1000	VFB	Ultralow Noise/Low Power	$2.45
2	LTC6244	100	2.5	0.075	50	35	8	25	7.4	no	out	2.8	6	DFN-8/MSOP-8	200	VFB	50MHz/Low Noise/RRO/CMOS	$1.65
2	LTC6244HV	100	2.5	0.075	50	35	8	25	7.4	no	out	2.8	10.5	DFN-8/MSOP-8	200	VFB	50MHz/Low Noise/RRO/CMOS	$2.35
2	LTC6912-1	22000	1.75 Typ		30	16	15.1	35 Typ	2.75	yes	yes	2.7	10.5	DFN-12/SSOP-16	50	PGA	Dual PGA/Serial SPI/A_V=0 to 100V/V	$2.15
2	LTC6912-2	22000	1.75 Typ		30	16	15.1	35 Typ	2.75	yes	yes	2.7	10.5	DFN-12/SSOP-16	50	PGA	Dual PGA/Serial SPI/A_V=1 to 64V/V	$2.15
2	LTC6241	125	2.5	0.075	18	10	7	15	2.2	no	out	2.8	6	DFN-8/SO-8	200	VFB	1pA Input Bias Current CMOS Amp	$1.25
2	LTC6241HV	175	2.5	0.075	18		7	15	2.2	no	out	2.8	11	DFN-8/SO-8	200	VFB	1pA Input Bias Current CMOS Amp	$2.20
2	LTC6087	750	5	0.001 Typ	14	7.2	12	1	1.3	yes	yes	2.7	5.5	MS-8/DFN-10	100	VFB	Picoamp Input Current/RRIO	$0.91
2	LTC6081	70	0.8	0.001	3.6	1	13	5	0.425	yes	yes	2.7	5.5	DFN-10/MS-8	200	VFB	Precision/RRIO/Picoamp Input Current	$1.74
2	LTC2051	3	0.03	0.075	3	2		10 Typ	1.2	yes	out	2.7	7	DFN-8/MS-8/MS-10/SO-8	100	ZD	Zero-Drift 3V/5V Operation	$2.00
2	LTC2051HV	3	0.03	0.15	3	2		10 Typ	1.5	yes	out	2.7	12	DFN-8/MS-8/MS-10/SO-8	100	ZD	Zero-Drift 3V/5V/±5V Operation	$2.50
2	LT6014	60	0.8	0.4	1.6	0.2	9.5	8	0.165	no	out	2.7	40	DFN-8/SO-8	500	VFB	Micropower/Precision/RRO/A_V>5	$1.65

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	†† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	Rail-to-Rail I/O[1]	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Package	C-Load Stable (pF)	Type[2]	Features	Price 1K Qty
2	LTC6084	750	5	0.001 Typ	1.5	0.5	31	12.5 Typ	0.13	no	yes	2.5	5.5	DFN-8/MS-8	300	VFB	Precision/RRIO/1.5MHz/Low Bias Current	$0.91
2	LT1638	600	6	50	1.2	0.38	20	15	0.23	no	yes	2.2	44	DFN-8/DIP-8/MS-8/SO-8	6000	VFB	High Voltage/Over-The-Top/Low Power	$1.95
2	LTC6078	25	0.7	0.001	0.75	0.05	18	5	0.072	yes	yes	2.7	6	MS-8/DFN-10	200	VFB	Micropower/Precision/RRIO	$1.49
2	LTC2055	3	0.03	0.15	0.5	0.5		1	0.15	no	out	2.7	7	DFN-8/MS-8	50	ZD	Micropower Zero-Drift 3V/5V Operation	$1.60
2	LTC2055HV	5	0.03	0.15	0.5	0.5		1	0.18	no	out	2.7	12	DFN-8/MS-8	50	ZD	Micropower Zero-Drift ±5V Operation	$2.00
2	LT6011	60	0.8	0.3	0.33	0.09	14	1	0.15	no	out	2.4	40	DFN-8/SO-8/MS-8	500	VFB	Micropower/Precision/RRO	$1.65
2	LT1490A	500	4	8	0.18	0.06	50	15	0.055	no	yes	2	44	DFN-8/DIP-8/MS-8/SO-8	300	VFB	RRIO/Over-The-Top	$1.75
2	LT6001	600	5	5	0.05	0.015	75	2	0.016	yes	yes	1.8	18	MS-8/DFN-10	800	VFB	1.8V/13µA Precision RRIO	$1.25
2	LT6004	500	5	0.09	0.002	0.0008	325	2	0.001	no	yes	1.6	16	DFN-8/MSOP-8	2000	VFB	1.6V, 1µA RRIO Precision	$1.10
3	LT6557	40000		70000	500	2200	12	70	25	yes			7.5	SSOP-16/DFN-16		VIDEO	Single Supply Video Amp/A_V=2	$2.50
4	LT1397	1200	4.6 Typ		400	800	4.5	80	6.5	no	no	3	12.6	DFN-14/SO-14/SSOPN-14	1000	CFA	100MHz 0.1dB BW	$2.75
4	LTC6242	150	2.5	0.075	18	10	7	15	2.2	no	out	2.8	6	DFN-16/SSOP-16	200	VFB	1pA Input Bias Current CMOS Amp	$2.25
4	LTC6242HV	200	2.5	0.075	18	10	7	15	2.2	no	out	2.8	11	DFN-16/SSOP-16	200	VFB	1pA Input Bias Current CMOS Amp	$3.30
4	LTC6088	750	5	0.001 Typ	14	7.2	12	1	1.3	yes	yes	2.7	5.5	SSOP-16/DFN-16	100	VFB	Picoamp Input Current/RRIO	$1.40
4	LTC6082	70	0.8	0.001	3.6	1	13	5	0.425	yes	yes	2.7	5.5	DFN-16/SSOP-16	200	VFB	Precision/RRIO/Picoamp Input Current	$2.97
4	LTC6085	750	5	0.001 Typ	1.5	0.5	31	12.5 Typ	0.13	no	yes	2.5	5.5	DFN-16, SSOP-16	300	VFB	Precision/RRIO/1.5MHz/Low Bias Current	$1.40
4	LTC6079	25	1.4	0.001	0.75	0.05	18	5	0.072	no	yes	2.7	6	DFN-16/SSOP-16	200	VFB	Micropower/Precision/RRIO	$2.53
4	LT1491A	1000	4	8	0.18	0.06	50	15	0.055	no	yes	2	44	DIP-14/SO-14/DFN-16	300	VFB	RRIO/Over-The-Top	$3.00
4	LT6002	750	5	5	0.05	0.015	75	2	0.016	no	yes	1.8	18	SSOP-16/DFN-16	800	VFB	1.8V/13µA Precision RRIO	$2.00
4	LT6005	500	5	0.09	0.002	0.0008	325	2	0.001	no	yes	1.6	16	DFN-16/SSOP-16	2000	VFB	1.6V, 1µA RRIO Precision	$1.75

† Primary Sort Column
†† Secondary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, SGA = Selectable Gain Difference Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifier, VGA = Variable Gain Amplifier

HIGH TEMPERATURE OP AMPS (–40°C TO 125°C)

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	A_{VOL} Typ 25°C (V/mV)	CMRR Min 25°C (dB)	E_{NOISE} Typ 25°C (nV/√Hz)	Rail-to-Rail I/O[1]	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Type[2]	Package	Features	Price 1K Qty
1	LTC2050	3	0.03	0.075	3	2	10000	120		out	2.4	1.2	yes	2.7	7	ZD	SO-8/SOT23-5/SOT23-6	Zero-Drift Op Amp 3V/5V Operation	$1.15
1	LTC2050HV	3	0.03	0.05	3	2	10000	120		out	2.4	1.5	yes	2.7	12	ZD	SO-8/SOT23-5/SOT23-6	Zero-Drift 3V/5V/±5V Operation	$1.45
1	LTC2054	3	0.03	0.15	0.5	0.5	10000	120		out	1	0.175	no	2.7	7	ZD	SOT23-5	Micropower Zero-Drift 3V/5V Operation	$1.00
1	LTC2054HV	5	0.03	0.15	0.5	0.5	10000	120		out	1	0.21	no	2.7	12	ZD	SOT23-5	Micropower Zero-Drift ±5V Operation	$1.25
1	LTC1050	5	0.05	0.03	2.5	4	100000	114	90	out	6 Typ	1.5	no	4.75	18	ZD	DIP-8/DIP-14/SO-8	Zero-Drift No External Capacitors	$2.15
1	LTC6915	10	0.05	10	0.2	0.2		105	50	yes	2	1.6	yes	2.7	11	IA/ZD/PGA	DFN-12/SSOP-16	Serial or Par. PGA/A_V=0 to 4096 V/V	$2.44
1	LTC2053	10	0.05	10	0.2	0.2		105	50	yes	2.4	1.3	no	2.7	11	ZD/IA	DFN-8/MS-8	Zero-Drift IA	$3.20
1	LT1991	50	1	5	0.56	0.12		80	46	yes	8	0.11	no	2.4	40	SGA	MS-10/DFN-10	Precision/Gain Select Range –13 to 14	$1.39
1	LT1787	75	2							ss	0.05 Typ	0.12	no	2.5	36	CSA	SO-8/MS-8	Precision/High Side Current Sense	$2.05
1	LT1787HV	75	2							ss	0.05 Typ	0.12	no	2.5	60	CSA	SO-8/MS-8	Precision/Current Sense/60V V_{IN}	$2.90
1	LTC6800	100	0.25	10	0.2	0.2		90	50	yes	2.4	1.2	no	2.7	5.5	IA	DFN-8/MS-8	Zero-Drift RRIO IA	$1.55
1	LT1112MP	150	1.3	0.25	0.75	0.22	2500	115	14		5.5	0.4	no	2.4	40	VFB	SO-8	–55°C to 125°C Operation	$7.78
1	LTC6240	175	2.5	0.001	18	10	1600	80	7	out	15	2.4	no	2.8	6	VFB	SOT-23/SO-8	18MHz/Low Noise/RRO/CMOS	$0.77
1	LTC6240HV	175	2.5	0.001	18	10	2700	83	7	out	15	3.3	no	2.8	11	VFB	SOT-23/SO-8	18MHz/Low Noise/RRO/CMOS	$1.40
1	LT1636	225	5	8	0.2	0.07	2000	84	52	yes	12	0.055	yes	2.6	44	VFB	DFN-8/DIP-8/MS-8/SO-8	Over-The-Top Micropower Op Amp	$1.45
1	LT6100	300	3	10000	0.15	0.05		100		ss	8	0.13	no	4.1	48	CSA	DFN-8/MS-8	Precision/Gain Selectable Current Sense	$1.18

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH TEMPERATURE OP AMPS (–40°C TO 125°C)

† Amplifiers Per Package	Part Number	†† V_{OS} Max 25°C (µV)	TC of V_{OS} Max (µV/°C)	I_{BIAS} Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	A_{VOL} Typ 25°C (V/mV)	CMRR Min 25°C (dB)	E_{NOISE} Typ 25°C (nV/√Hz)	Rail-to-Rail I/O[1]	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Type[2]	Package	Features	Price 1K Qty
1	LTC6101HV	300	0.2 Typ		0.02					ss	1 Typ	0.45	no	5	100	CSA	SOT-23-5/MS-8	High Voltage/High Side Current Sense	$1.30
1	LT1637	350	3	50	1	0.35	800	88	27	yes	15	0.25	yes	1.8	44	VFB	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.45
1	LT1494	375	2	1	0.0027	0.001	500	100	185	yes	0.7	0.0015	no	2.1	36	VFB	DIP-8/MS-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$1.65
1	LTC6101	450	0.22 Typ		0.02					ss	1	0.45	no	4	60	CSA	SOT-23-5/MS-8	High Voltage/High Side Current Sense	$1.04
1	LT1637MP	450	10	50	1	0.35	800	88	27	yes	15	0.25	no	3	44	VFB	SO-8	–55°C to 125°C Opretion	$4.58
1	LT6003	500	5	0.09	0.002	0.0008	150	88	325	yes	2	0.001	no	1.6	16	VFB	DFN-4/SOT23-5	1.6V, 1µA Precision RRIO	$0.72
1	LT1782	800	5	15	0.2	0.07	1500	90	50	yes	20	0.055	yes	2.2	18	VFB	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1783	800	5	80	1.25	0.42	1500	90	20	yes	20	0.3	yes	2.2	18	VFB	SOT23-5/SOT23-6	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LTC1992	2500	0.65 Typ	0.25	4	0.75	10	69	18	out	10	1	no	2.4	12	DIFF	MS-8	Fully Differential In/Out	$1.65
1	LTC1992-1	2500	0.65 Typ	0.25	4	0.75		55	45	out	10	1	no	2.7	12	DIFF	MS-8	Fully Differential In/Out/ A_V=1	$3.95
1	LTC1992-2	2500	0.65 Typ	0.25	4	0.75		55	45	out	10	1	no	2.7	12	DIFF	MS-8	Fully Differential In/Out/ A_V=2	$3.95
1	LTC1992-5	2500	0.65 Typ	0.25	4	0.75		55	45	out	10	1	no	2.7	12	DIFF	MS-8	Fully Differential In/Out/ A_V=5	$3.95
1	LTC1992-10	2500	0.65 Typ	0.25	4	0.75		55	45	out	10	1	no	2.7	12	DIFF	MS-8	Fully Differential In/Out/ A_V=10	$3.95
1	LT1990	5200	22		0.1	0.55		70	1000	yes	6	0.18	no	2.4	36	SGA	SO-8	±250V Diff Amp and Integrated Resistors	$1.35
1	LTC6910-2	15000			13	16		55	9.1	yes	9.5	3	no	2.7	11	PGA	SOT23-8	3-Bit Gain Control/0 to 64 V/V	$1.10
1	LTC6910-3	15000			11	16		55	10.6	yes	9.5	3	no	2.7	11	PGA	SOT23-8	3-Bit Gain Control/0 to 7 V/V	$1.10
2	LTC2051	3	0.03	0.075	3	2	10000	120		out	10 Typ	1.2	yes	2.7	7	ZD	DFN-8/MS-8/MS-10/SO-8	Zero-Drift 3V/5V Operation	$2.00
2	LTC2051HV	3	0.03	0.15	3	2	10000	125		out	10 Typ	1.5	yes	2.7	12	ZD	DFN-8/MS-8/MS-10/SO-8	Zero-Drift 3V/5V/±5V Operation	$2.50
2	LTC2055	3	0.03	0.15	0.5	0.5	10000	120		out	1	0.15	no	2.7	7	ZD	DFN-8/MS-8	Micropower Zero-Drift 3V/5V Operation	$1.60
2	LTC2055HV	5	0.03	0.15	0.5	0.5	10000	120		out	1	0.18	no	2.7	12	ZD	DFN-8/MS-8	Micropower Zero-Drift ±5V Operation	$2.00
2	LTC6078	25	0.7	0.001	0.75	0.05	3162	95	18	yes	5	0.072	yes	2.7	6	VFB	MS-8/DFN-10	Micropower/Precision/RRIO	$1.49
2	LTC6081	70	0.8	0.001	3.6	1	1000	100	13	yes	5	0.425	yes	2.7	5.5	VFB	DFN-10/MS-8	Precision/RRIO/Picoamp Input Current	$1.74
2	LTC6244	100	2.5	0.075	50	35	2500	74	8	Out	25	7.4	no	2.8	6	VFB	DFN-8/MS-8	Dual 50MHz/ Low Noise/ RRO/CMOS Op Amp	$1.65
2	LTC6241	125	2.5	0.075	18	10	1600	80	7	Out	15	2.2	no	2.8	6	VFB	DFN-8/SO-8	1pA Input Bias Current/ RRO/CMOS Amp	$1.25
2	LTC6241HV	175	2.5	0.075	18		1600	80	7	Out	15	2.2	no	2.8	11	VFB	DFN-8/SO-8	1pA Input Bias Current/ RRO/CMOS Amp	$2.20
2	LT1112	150	1.3	0.25	0.75	0.22	2500	115	14		5.5	0.4	no	2.4	40	VFB	SO-8	–55°C to 125°C	$7.78
2	LT1495	375	2	1	0.0027	0.001	500	100	185	yes	0.7	0.0015	no	2.1	36	VFB	DIP-8/SO-8	Ultralow Power/Rail-to-Rail/Precision	$2.45
2	LTC6103	450	0.275 Typ								1	0.275 Typ	no	4	60		MS-8	Dual High Voltage/ High Side Current Sense Amp	$1.66
2	LT1490A	500	4	8	0.18	0.06	1500	84	50	yes	15	0.055	no	2	44	VFB	DFN-8/DIP-8/MS-8/SO-8	RRIO/Over-The-Top	$1.75
2	LT6004	500	5	0.09	0.02	0.0008	150	88	325	yes	2	0.001	no	1.6	16	VFB	DFN-8/MS-8	1.6V, 1µA Precision RRIO	$1.10
2	LTC6084	750	5	0.001 Typ	1.5	0.5	2000	64	31	yes	12.5 Typ	0.13	no	2.5	5.5	VFB	3×3 DFN-8/MS-8	Precision/1.5MHz/RRIO/ Low Bias Current	$0.91
2	LT1638	600	6	50	1.2	0.38	1500	88	20	yes	15	0.23	no	2.2	44	VFB	DFN-8/DIP-8/MS-8/SO-8	High Voltage/Over-The-Top/Low Power	$1.95
2	LTC6087	750	5	0.001 Typ	14	7.2	6000	70	12	yes	1	1.3	yes	2.7	5.5	VFB	MS-8/DFN-10	Picoamp Input Current/RRIO	$0.91
2	LTC6911-1	22000	2.1 Typ		11	16		55	9.9	yes	35 Typ	3.15	no	2.7	10.5	PGA	MS-10	Dual/3-Bit Gain Control/0 to 100 V/V	$2.00
2	LTC6911-2	22000	2.1 Typ		11	16			10.9	yes		3.15	no	2.7	10.5	PGA	MS-10	Dual/3-Bit gain Control/0 to 64 V/V	$2.00
4	LTC2052	3	0.03	0.075	3	2	10000	120		out	10 Typ	1.2	no	2.7	7	ZD	SO-14/SSOP-16	Zero-Drift Op Amp 3V/5V Operation	$3.65
4	LTC2052HV	3	0.03	0.15	3	2	10000	125		out	10 Typ	1.5	no	2.7	12	ZD	SO-14/SSOP-16	Zero-Drift 3V/5V/±5V Operation	$4.55
4	LTC6079	25	1.4	0.001	0.75	0.05	3162	95	18	yes	5	0.072	no	2.7	6	VFB	DFN-16/SSOP-16	Micropower/Precision/RRIO	$2.53
4	LTC6082	70	0.8	0.001	3.6	1	1000	100	13	yes	5	0.425	yes	2.7	5.5	VFB	DFN-16/SSOP-16	Precision/RRIO/Picoamp Input Current	$2.97
4	LTC6242	150	2.5	0.075	18	10	1600	80	7	Out	15	2.2	no	2.8	6	VFB	DFN-16/SSOP-16	1pA Input Bias Current CMOS Amp	$2.25
4	LTC6242HV	200	2.5	0.075	18	10	1600	80	7	out	15	2.2	no	2.8	11	VFB	DFN-16/SSOP-16	1pA Input Bias Current CMOS Amp	$3.30
4	LT1496	375	2	1	0.0027	0.001	500	100	185	yes	0.7	0.0015	no	2.1	36	VFB	DIP-14/SO-14	Ultralow Power/Precision/RRIO	$3.25
4	LTC6085	750	5	0.001 Typ	1.5	0.5	2000	64	31	yes	12.5 Typ	0.13	no	2.5	5.5	VFB	5×3 DFN-16/SSOP-16	Precision/1.5MHz/RRIO/Low Bias Current	$1.40
4	LT1639	600	6	50	1.075	0.38	1500	88	20	yes	15	0.23	no	2.2	44	VFB	DIP-14/SO-14	High Voltage/Over-The-Top/Low Power	$3.30
4	LT6005	650	5	0.09	0.02	0.0008	150	115	325	yes	2	0.001	no	1.6	16	VFB	SSOP-16/DFN-16	1.6V, 1µA Precision RRIO	$1.75
4	LT6088	750	5	0.001 Typ	14	7.2	6000	70	12	yes	1	1.3	yes	2.7	5.5	VFB	SSOP-16/DFN-16	Picoamp Input Current/RRIO	$1.40
4	LT1491A	1000	4	8	0.18	0.06	1500	84	50	yes	15	0.055	no	2	44	VFB	DIP-14/SO-14/DFN-16	RRIO/Over-The-Top	$3.00
4	LT1397	10000	15		400	800		42	4.5		80	6.5	no	3	12.6	CFA	DFN-14/SO-14/SSOPN-16	Quad CFA/ 100MHz 0.1dB BW	$1.95

† Primary Sort Column
†† Secondary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, SGA = Selectable Gain Difference Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifier, VGA = Variable Gain Amplifier

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† I_{OUT} Min 25°C (mA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	Settle Time to 0.1% Typ 25°C (ns)	I_{SUPPLY} Per Ampl Max 25°C (mA)	Shutdown	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	C-Load Stable (pF)	Type[2]	Av Min Stable Typ 25°C (V/V)	Features	Price 1K Qty
1	LT1210	1100	66	900	3		50	yes	8	36		DDPAK-7/SO-16/TO-220	10000	CFA	1	1A Output Current	$6.40
1	LT1970	500	3.6	1.6	15	8000	13	no	5	36		TSSOP-20	10000	VFB	1	Power Amp/Adj. Current Limit	$4.95
1	LT1206	250	66	900	3.6		30	yes	10	36		DDPAK-7/DIP-8/SO-8/TO-220	10000	CFA	1	High I_{OUT}/Adj. Supply Current/C-Load	$3.40
1	LT1010	150	30	200	20		9	no	4.5	44		DIP-8/T-5/DFN-10	330000	BUF	1	High Power High Speed Buffer	$2.40
1	LT1395	80	400	800	4.5	25	6.5	yes	3	12.6		SO-8/SOT23-5/SOT23-6	1000	CFA	1	CFA/100MHz 0.1dB Bandwidth	$1.30
1	LT6210	75	200	700	6.5	20	8.3	no	3	13.2	out	SOT23-6	10000	CFA	1	Adjustable Speed and Power CFA	$1.20
1	LT1995	70	24	1000	14	100	8.5	no	2.5	36		MS-10/DFN-10	200	SGA	1	Fast Diff. Amp/Integrated Resistors	$1.89
1	LT1194	64	350	500	15	200	40	no	4	18		DIP-8/SO-8	50	VIDEO	10	Amplitude Limiting Control	$2.90
1	LT1193	64	80	500	50	180	40	yes	4	18		DIP-8/SO-8	30	VIDEO	2	63dB AC CMRR at 1MHz	$2.90
1	LT6200-10	60	1600	450	0.95		23	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	10	Low Noise/RRIO/High Speed/A_V>10	$1.50
1	LT6200-5	60	800	250	0.95		23	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	5	Low Noise/RRIO/High Speed/A_V>5	$1.50
1	LT6200	60	165	50	0.95	140	23	yes	2.5	12.6	yes	SO-8/SOT23-6	1000	VFB	1	Low Noise/RRIO/High Speed	$2.15
1	LT1192	50	350	450	9	90	38	yes	4	18		DIP-8/SO-8	50	VFB	5	±5V Supply Color Video	$1.70
1	LT1675-1	50	250	1100			14	yes	5.2	12.6		MS-8/SO-8	5	VIDEO	2	Pixel-Rate Select/A_V=2/Cable Driver	$1.95
1	LT1815	50	220	1500	6	15	7.8	no	4	12.6		SO-8/SOT23-5/SOT23-6	10	VFB	1	High SR VFB with Prog. Supply Current	$0.88
1	LT1223	50	100	1000	33	75	10	yes	5	36		SO-8/DIP-8	1800	CFA	1	High Slew Rate/High I_{OUT}	$2.85
1	LT1191	50	90	450	25	110	38	yes	4	18		DIP-8/SO-8	30	VFB	1	±5V Supply Color Video	$1.70
1	LT1363	50	70	1000	9	50	7.5	no	3	36		SO-8/DIP-8	All	VFB	1	High Speed/Precision/C-Load	$2.40
1	LT1190	50	50	450	50	140	38	yes	4	18		DIP-8/SO-8	10	VFB	1	±5V Supply Color Video	$1.70
1	LT1217	50	10	500	6.5	280	2	yes	10	36		DIP-8/SO-8	5000	CFA	1	Low Power CFA	$3.20
2	LT1739	500	200	600	8		13.5	Yes	8	27		DFN-12/TSSOP-20	30	VFB	10	High Iout/ Low Noise/ High Speed	$3.55
2	LT1794	500	200	600	8		13.5	yes	8	36		SOW-20/TSSOP-20	30	VFB	10	High I_{OUT}/Low Noise/High Speed	$4.95
2	LT6300	500	200	600	8		13.5	yes	8	27		SSOP-16	30	VFB	10	High I_{OUT} Driver	$2.85
2	LT1795	500	65	900	3.6		34	yes	10	36		SOW-20/TSSOP-20	1000	CFA	1	High I_{OUT}/High Speed	$4.95
2	LT1207	250	66	900	3.6		30	yes	10	36		SO-16	10000	CFA	1	High Current/Prog. Supply/C-Load	$6.90
2	LT1969	200	700	200	6	50	8.25	no	4	13.2		MS-10	1000	VFB	10	High Output Current/A_V>10	$2.95
2	LT1886	200	700	200	6	50	8.25	no	4	13.2		SO-8	1000	VFB	10	High Output Current/A_V>10	$2.80
2	LT1497	125	59	900	3	50	7	no	4	36		SO-8/SO-16	2000	CFA	1	125mA Output CFA	$3.35
2	LT1396	80	400	800	4.5	25	6.5	no	3	12.6		DFN-8/MS-8/SO-8	1000	CFA	1	CFA/100MHz 0.1dB BW	$1.95
2	LT1398	80	300	800	4.5	25	6.5	yes	3	12.6		SO-16	1000	CFA	1	0.1dB Gain Flatness to 150MHz	$2.25
2	LT6211	75	200	700	6.5	20	8.3	no	3	13.2	out	DFN-10/MS-10	10000	CFA	1	Adjustable Speed and Power CFA	$1.60
2	LT6201	60	165	50	0.95	140	23	no	2.5	12.6	yes	DFN-8/SO-8	1000	VFB	1	Low Noise/RRIO/High Speed	$3.65
2	LT6411	50	650	3300	8	6	22	yes	4.5	12.6		QFN-16	12	CFA	1	650MHz Differential ADC Driver/Selectable Gain	$2.39
2	LT1816	50	220	1500	6	15	7.8	no	2.5	12.6		DFN-8/MS-8/MS-10/SO-8	10	VFB	1	High SR VFB with Prog Supply Current	$1.50
2	LT1364	50	70	1000	9	60	7.2	no	3	36		SO-8/DIP-8	All	VFB	1	High Speed/Precision/C-Load	$3.70
3	LT1485	80	300	800	4.5	25	6.5	yes	3	12.6		SSOPN-16/SO-16	1000	CFA	1	0.1dB Gain Flatness to 150MHz	$2.45
3	LT1399HV	80	300	800	4.5	25	7	yes	3	15.5		SO-16	1000	CFA	1	0.1dB Gain Flatness to 150MHz	$3.05
3	LT6559	80 Typ	300	500	4.5	25	6.1	yes	4	12		QFN-16	1000	VIDEO	1	Low Cost 5V/±5V 300MHz Triple Video Amp	$0.95
3	LT6557	70	500	2200	12	7	25	yes		7.5		SSOP-16/DFN-16		VIDEO	2	Single Supply Triple Video Amp/A_V=2	$2.50
3	LT6558	60	550	2200	20	7	24	yes		7.5		SSOP-16/DFN-16		VIDEO	1	Single Supply Triple Video Amp/A_V=1	$2.50
3	LT6556	50	750	2100	11	6.5	13	yes	4.5	12.6		SSOP-24/QFN-24	10	VIDEO	1	Triple 2:1 Video Multiplexer/A_V=1	$2.75
3	LT6553	50	650	2500	9	6	11	no	4	13.2		SSOP-16	10	VIDEO	2	High Speed Video Amp/A_V=2	$2.50
3	LT6554	50	650	2500	20	6	10	yes	4	13.2		SSOP-16	12	VIDEO	1	High Speed CFA Video Buffer	$2.50
3	LT6555	50	650	2200	9	6.5	12	yes	4.5	12.6		SSOP-24/QFN-24	10	VIDEO	2	Triple 2:1Video Multiplexer/A_V=2	$2.75
3	LT1675	50	250	1100			14	yes	5.2	12.6		SSOPN-16	5	VIDEO	2	RGB Pixel-Rate Select/A_V=2/Cable Driver	$1.95
4	LT6301	500	200	600	8		13.5	yes	8	27		TSSOP-28	30	VFB	10	High I_{OUT} Driver	$6.20
4	LT1397	80	400	800	4.5	25	6.5	no	3	12.6		DFN-14/SO-14/SSOPN-16	1000	CFA	1	CFA/100MHz 0.1dB BW	$2.75
4	LT1817	50	220	1500	6	15	7	no	2.5	12.6		SO-14/SSOPN-16	10	VFB	1	High Slew Rate VFB	$2.05
4	LT1365	50	70	1000	9	50	7.2	no	3	36		DIP-14/SO-16	All	VFB	1	High Speed/Precision/C-Load	$6.45

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, SGA = Selectable Gain Difference Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifier, VGA = Variable Gain Amplifier

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

C-Load OP AMPS

† Amplifiers Per Package	Part Number	†† C-Load Stable (pF)	A_{VOL} Typ 25°C (V/mV)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Type[2]	Features	Price 1K Qty
1	LT1363	All	9	1500	2000	70	1000	9	50	7.5	3	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$2.40
1	LT1360	All	9	1000	1000	50	800	9	26	4.8	3	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$2.20
1	LT1357	All	65	600	500	25	600	8	24	2.5	5	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$2.45
1	LT1354	All	36	800	300	12	400	10	30	1.25	5	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$2.30
1	LT1351	All	80	600	50	3	200	14	30	0.33	5	36		SO-8/MS-8/DIP-8	VFB	High Speed/Precision/C-Load	$2.45
1	LTC1152	All	130	10	0.1	0.7	0.5	130	35 Typ	3	3	14	yes	DIP-8/SO-8	ZD	Zero-Drift C-Load Stable with Ext. RC	$3.15
1	LT1010	330000	1000	150000	250000	30	200	20	150	9	4.5	44		DIP-8/T-5/DFN-10	BUF	High Power High Speed Buffer	$2.40
1	LT1220	100000		1000	300	45	250	17	24	10.5	5	36		SO-8/DIP-8	VFB	Fast Setting Time and C-Load Op Amp	$3.40
1	LT1219	100000	1000	90	70	0.15	0.05	33	5	0.42	2	36	yes	SO-8/DIP-8	VFB	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1219L	100000	1000	90	70	0.15	0.05	33	5	0.42	2	16	yes	SO-8/DIP-8	VFB	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LT1102	50000		600	0.04	3.5	30	19	6	5	18	40		DIP-8	IA	JFET Input IA/Gain of 10 or 100	$4.75
1	LT1101	30000		160	8	0.37	0.1	43	5.5	0.13	1.8	44		DIP-8/SOW-16	IA	Micropower Single Supply IA/A_V=10 or 100	$4.75
1	LT1001	20000	800	25	2	0.8	0.25	9.6	12	2.5	6	44		DIP-8/SO-8	VFB	General Purpose/High Precision	$1.65
1	LT6210	10000		6000		200	700	6.5	75	8.3	3	13.2	out	SOT23-6	CFA	Adjustable Speed and Power CFA	$1.20
1	LT1210	10000		15000		66	900	3	1100	50	8	36		DDPAK-7/SO-16/TO-220	CFA	1A Output Current	$6.40
1	LT1206	10000		10000		66	900	3.6	250	30	10	36		DDPAK-7/DIP-8/SO-8/TO-220	CFA	High I_{OUT}/Adj. Supply Current/C-Load	$3.40
1	LT1797	10000	1000	1500	300	10	2.25	20	25	1.5	2.1	12.6	yes	SOT23-5	VFB	RRIO/Low Noise/C-Load Stable	$1.00
1	LT1792	10000	4800	600	0.8	5.6	3.4	4.2	12	5.2	10	40		DIP-8/SO-8	JFET	FET Input/Low Distortion/Precision	$2.25
1	LT1793	10000	4500	800	0.01	4.2	3.4	6	12	5.2	10	40		DIP-8/SO-8	JFET	FET Input/Precision/Low Distortion	$2.25
1	LTC1992	10000	10	2500	0.25	4	0.75	18	10	1	2.4	12	out	MS-8	DIFF	Fully Differential In/Out	$1.65
1	LTC1992-1	10000		2500	0.25	4	0.75	45	10	1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=1	$3.95
1	LTC1992-2	10000		2500	0.25	4	0.75	45	10	1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=2	$3.95
1	LTC1992-5	10000		2500	0.25	4	0.75	45	10	1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=5	$3.95
1	LTC1992-10	10000		2500	0.25	4	0.75	45	10	1	2.7	12	out	MS-8	DIFF	Fully Differential In/Out/ A_V=10	$3.95
1	LT1970	10000	150	600	600	3.6	1.6	15	500	13	5	36		TSSOP-20	VFB	Power Amp/Adj. Current Limit	$4.95
1	LT1097	10000	2500	50	0.25	0.7	0.2	14	5.75	0.56	2	40		DIP-8/SO-8	VFB	Low Cost/C-Load Stable	$1.75
1	LT1636	10000	2000	225	8	0.2	0.07	52	12	0.055	2.6	44	yes	DFN-8/DIP-8/MS-8/SO-8	VFB	Over-The-Top Micropower Op Amp	$1.45
1	LT1782	10000	1500	800	15	0.2	0.07	50	20	0.055	2.2	18	yes	SOT23-5/SOT23-6	VFB	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1672	10000	500	375	1	0.012	0.005	185	0.7	0.002	2.1	36	yes	DIP-8/MS-8/SO-8	VFB	Ultralow Power/Over-The-Top Inputs	$1.65
1	LT1494	8000	500	375	1	0.0027	0.001	185	0.7	0.0015	2.1	36	yes	DIP-8/MS-8/SO-8	VFB	Ultralow Power/Rail-to-Rail/Precision	$1.65
1	LT6220	7000	100	350	150	60	20	10	20	1	2.2	12.6	yes	SO-8/SOT23-5	VFB	Precision/Low Power/RRIO	$1.20
1	LT1217	5000	177	3000		10	500	6.5	50	2	10	36		DIP-8/SO-8	CFA	Low Power CFA	$3.20
1	LT1204	4000		14000		95	1000	7	35	24	9	36		DIP-16/SOW-16	VIDEO	4:1 MUX w/CFA Bootstrapped Resistors	$4.80
1	LT1115	4000	20000	200	380	70	15	0.9	18.3	11.5	8	44		DIP-8/SOW-16	VFB	Low Noise/Ultralow Distortion	$2.90
1	LT1783	3000	1500	800	80	1.25	0.42	20	20	0.3	2.2	18	yes	SOT23-5/SOT23-6	VFB	Over-The-Top/Micropower/RRIO/C-Load	$1.10
1	LT1990	3000		5200		0.1	0.55	1000	6	0.18	2.4	36	yes	SO-8	SGA	±250V Diff Amp and Integrated Resistors	$1.35
1	LT6230-10	2000	260	500	10000	1450	320	1.1	30	3.75	3	12.6	out	SOT23-6	VFB	Ultralow Noise/Low Power/A_V>10	$1.50
1	LT1227	2000		10000		140	1100	3.2	30	15	4	36		DIP-8/SO-8	CFA	High Voltage CFA	$2.40
1	LT1228	2000		5000	1000	100	500	20	30	15	4	36		DIP-8/SO-8	CFA	CFA with Gain Control	$3.75
1	LT1637	2000	800	350	50	1	0.35	27	15	0.25	1.8	44	yes	DFN-8/DIP-8/MS-8/SO-8	VFB	High Voltage/Over-The-Top/Low Power	$1.45
1	LT1789-10	2000		160	40	0.025	0.026	52	2.2	0.095	2.2	36	out	SO-8	IA	Micropower/Precision IA/A_V>10	$3.20
1	LT1223	1800	5000	3000		100	1000	33	50	10	5	36		SO-8/DIP-8	CFA	High Slew Rate/High I_{OUT}	$2.85
1	LT1077	1500	1000	40	9	0.23	0.08	27	5.5	0.06	2.2	44	ss	DIP-8/SO-8	VFB	High Precision Micropower Single Supply	$1.60
1	LT6200-10	1000	200	1000	40000	1600	450	0.95	60	23	2.5	12.6	yes	SO-8/SOT23-6	VFB	Low Noise/RRIO/High Speed/A_V>10	$1.50
1	LT1226	1000	150	1000	8000	1000	400	2.6	24	9	5	36		SO-8/DIP-8	VFB	Low Noise/High Speed/High Gain	$2.85
1	LT6200-5	1000	200	1000	40000	800	250	0.95	60	23	2.5	12.6	yes	SO-8/SOT23-6	VFB	Low Noise/RRIO/High Speed/A_V>5	$1.50
1	LT1222	1000	200	300	300	500	200	3	24	10.5	5	36		SO-8/DIP-8	VFB	Fast Setting Time/High Speed/Gain>10	$3.40
1	LT1395	1000		10000		400	800	4.5	80	6.5	3	12.6		SO-8/SOT23-5/SOT23-6	CFA	CFA/100MHz 0.1dB Bandwidth	$1.30
1	LT6233-10	1000	180	500	3000	375	115	1.9	40	1.25	3	12.6	out	SOT23-6	VFB	Low Noise/Low Power/A_V>10	$1.90
1	LT1806	1000	220	550	4000	325	125	3.5	35	13	2.5	12.6	yes	SO-8/SOT23-6	VFB	High Speed/Precision/Low Noise	$2.10
1	LT6230	1000	260	500	10000	215	70	1.1	30	3.75	3	12.6	out	SOT23-6	VFB	Ultralow Noise/Low Power/High Speed	$1.25
1	LT6200	1000	200	1000	40000	165	50	0.95	60	23	2.5	12.6	yes	SO-8/SOT23-6	VFB	Low Noise/RRIO/High Speed	$2.15

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† C-Load Stable (pF)	A_{VOL} Typ 25°C (V/mV)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Type[2]	Features	Price 1K Qty
1	LT1809	1000	80	2500	8000	160	300	16	45	17	2.5	12.6	yes	SO-8/SOT23-6	VFB	Low Distortion/High Speed/Low Noise	$1.75
1	LT1225	1000	20	1000	8000	150	400	7.5	24	9	5	36		SO-8/DIP-8	VFB	Full Power Bandwidth 13MHz at ±5V	$2.85
1	LT1221	1000	100	1000	300	150	250	6	24	10.5	5	36		SO-8/DIP-8	VFB	Low Noise/High Speed/High Gain	$3.30
1	LT6202	1000	200	500	7000	100	25	1.9	30	3.5	2.5	12.6	yes	SO-8/SOT23-5	VFB	Low Noise/Low Power/RRIO	$1.45
1	LT6205	1000	133	4500	30000	100	600	9	25	5.6	3	12.6	out	SOT23-5	VFB	3V 100MHz Single Supply Video Amp	$0.88
1	LT1803	1000	60	2000	750	83	100	21	20	3	2.3	12.6	yes	SO-8/SOT23-5	VFB	RRIO/High Speed	$1.30
1	LT1800	1000	85	350	250	80	25	8.5	20	2	2.3	12.6	yes	SO-8/SOT23-5	VFB	High Speed/Power/Precision/RRIO	$1.30
1	LT6552	1000		20000	50000	75	600	55	35	13.5	3	12.6	out	DFN-8/SO-8	VFB	Low Power Video Difference Amp	$1.10
1	LT6233	1000	180	500	3000	60	17	1.9	40	1.25	3	12.6	out	SOT23-6	VFB	Ultralow Noise/Low Power/High Speed	$1.45
1	LT1224	1000		2000	8000	45	400	22	24	9	5	36		SO-8/DIP-8	VFB	10V Peak Full Power BW to 6.4MHz	$2.85
1	LT1677	1000	19000	60	20	7.2	2.5	3.2	25	3.5	2.5	44	yes	DIP-8/SO-8	VFB	High Loop Gain/Low Noise/RRIO	$2.15
1	LT1784	1000	1000	3500	500	2.5	2.1	25	20	0.75	2	18	yes	SOT23-5/SOT23-6	VFB	Low Power/RRIO/Shutdown	$1.00
1	LT1880	1000	1600	150	0.9	1.1	0.55	13	1	1.9	2.4	40	out	SOT23-5	VFB	Picoamp Input Current/Precision	$1.75
1	LT1012	1000	2000	25	0.1	1	0.2	14	1.3	0.5	2.4	40		DIP-8/SO-8	VFB	Low V_{OS} Stable with any C-Load	$1.60
1	LT1167	1000		40	0.35	1	1.2	7.5	20	1.3	4.6	40		DIP-8/SO-8	IA	Precision/Low Bias Current IA	$3.20
1	LT1920	1000		125	2	0.8	1.2	7.5	20	1.3	4.6	40		DIP-8/SO-8	IA	Resistor Programmable IA	$3.05
1	LT1168	1000		40	0.25	0.4	0.5	10	20	0.53	4.6	40		DIP-8/SO-8	IA	Precision IA/Low Bias Current/Low Power	$3.70
1	LT1218	1000	1000	90	70	0.3	0.1	33	5	0.42	2	36	yes	SO-8/DIP-8	VFB	Low V_{OS} Across Entire R-R Input Range	$4.75
1	LT1218L	1000	1000	90	70	0.3	0.1	33	5	0.42	2	16	yes	SO-8/DIP-8	VFB	Low V_{OS} Across Entire R-R Input Range	$2.90
1	LT1635	1000	450	1300	4.5	0.175	0.045	50	20	0.2	1.1	14	out	DIP-8/SO-8	VFB	Op Amp and Reference/LM10 Pinout	$1.75
1	LTC1542	1000	1000	1000		0.012	8		1.3	0.01	2.5	12.6	out	MS-8/SO-8/DFN-8	REF	Micropower Amp/Comparator and Ref	$1.20
1	LT6003	900	150	500	0.009	0.002	0.0008	325	2	1	1.6	16	yes	DFN-4/SOT23-5	VFB	1.6V, 1µA Precision RRIO	$0.72
1	LT1008	600	2000	120	0.1	1	0.2	14	1.3	0.6	4	40		DIP-8/SO-8	VFB	Low Bias Current/External Compensation	$2.95
1	LT1789-1	600		100	40	0.06	0.026	48	2.2	0.095	2.2	36	out	SO-8	IA	Micropower/Precision IA/Single Supply	$3.20
1	LT1128	500	30000	40	90	20	6	0.85	18.3	9.5	8	44		DIP-8/SO-8	VFB	Lowest Noise High Speed	$4.75
1	LT1122	500	500	600	0.075	14	80	14	19.1	10	20	40		DIP-8/SO-8	JFET	Setting Guaranteed to 0.01%/FET Input	$2.45
1	LT6013	500	2000	35	0.25	1.6	0.2	9.5	8	0.165	2.7	40	out	DFN-8/SO-8	VFB	Micropower/Precision/RRO/A_V>5	$1.10
1	LT6010	500	2000	35	0.11	0.33	0.09	14	1	0.15	2.7	40	out	DFN-8/SO-8	VFB	Micropower/Precision/RRO	$1.10
2	LT1112	All	5000	60	0.25	0.75	0.3	14	5.5	0.4	2	40		DIP-8/SO-8	VFB	Low Power/Matching Specs/C-Load Stable	$2.35
2	LT1364	All	9	1500	1000	70	1000	9	50	7.2	3	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$3.70
2	LT1361	All	9	1000	1000	50	800	9	26	4.8	5	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$3.40
2	LT1208	All	7	3000	8000	45	400	22	24	9	8	36		DIP-8/SO-8	VFB	Fast C-Load	$4.25
2	LT1358	All	65	600	500	25	600	8	24	2.5	5	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$3.90
2	LT1355	All	13.4	800	300	12	400	10	25	1.25	5	36		SO-8/DIP-8	VFB	High Speed/Precision/C-Load	$3.80
2	LT1352	All	80	600	50	3	200	14	30	0.33	5	36		SO-8	VFB	High Speed/Precision/C-Load	$3.80
2	LT1368	100000	2000	475	35	0.16	0.065	29	30	0.52	2	36	yes	DIP-8/SO-8	VFB	Stable with 100nF C-Load	$3.45
2	LT1498	30000	3800	475	650	10.5	4.5	12	12.5	2.2	2.2	36	yes	DIP-8/SO-8	VFB	Stable with Large C-Load	$2.96
2	LT1002	20000	800	60	3	0.8	0.25	9.6	12	2.5	6	44		DIP-14	VFB	High CMRR and PSRR	$2.85
2	LT6211	10000		6000		200	700	6.5	75	8.3	3	13.2	out	DFN-10/MS-10	CFA	Adjustable Speed and Power CFA	$1.60
2	LT1207	10000		10000		66	900	3.6	250	30	10	36		SO-16	CFA	High Current/Prog. Supply/C-Load	$6.90
2	LT1113	10000	4800	1500	0.45	5.6	3.9	4.5	12	6.25	9	40		DIP-8/SO-8	JFET	Low Noise and Low Offset/JFET Input	$3.15
2	LT1457	10000	350	450	0.05	1	4	13	6	3	9	40		DIP-8/SO-8	JFET	JFET with Excellent C-Load Stability	$2.35
2	LT1673	10000	500	375	1	0.012	0.005	185	0.7	0.002	2.1	36	yes	DIP-8/SO-8	VFB	Ultralow Power/Over-The-Top Inputs	$2.45
2	LT1211	8000	560	150	100	13	7	12	20	1.8	2.5	36	ss	DIP-8/SO-8	VFB	Precision/Single Supply/Wide V_{SUPPLY}	$2.85
2	LT1057	8000	350	450	0.05	5	14	13	20 Typ	2.5	8	40		DIP-8/SO-8/SOW-16	JFET	High Speed JFET Input	$2.45
2	LT6221	7000	100	350	150	60	20	10	20	1	2.2	12.6	yes	DFN-8/SO-8	VFB	Precision/Low Power/RRIO	$1.85
2	LT1638	6000	1500	600	50	1.2	0.38	20	15	0.23	2.2	44	yes	DFN-8/DIP-8/MS-8/SO-8	VFB	High Voltage/Over-The-Top/Low Power	$1.95
2	LT1178	2500	2500	70	5	0.085	0.04	49	5.5	0.017	2	44	ss	DIP-8/SO-8/SOW-16	VFB	Precision/Micropower/Single Supply	$2.95
2	LT1229	2000		10000		100	700	3.2	30	9.5	4	36		DIP-8/SO-8	CFA	General Purpose High Voltage CFA	$3.75
2	LT1497	2000	10	10000		59	900	3	125	7	4	36		SO-8/SO-16	CFA	125mA Output CFA	$3.35
2	LT1078	1800	1000	70	8	0.2	0.07	28	5.5	0.05	2.2	44	ss	DIP-8/SO-8	VFB	Precision/Micropower/Single Supply	$2.70
2	LT1886	1000	12	4000	4000	700	200	6	200	8.25	4	13.2		SO-8	VFB	High Output Current/A_V>10	$2.80

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

C-Load OP AMPS

† Amplifiers Per Package	Part Number	†† C-Load Stable (pF)	A_{VOL} Typ 25°C (V/mV)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Type[2]	Features	Price 1K Qty
2	LT1969	1000	12	4000	4000	700	200	6	200	8.25	4	13.2		MS-10	VFB	High Output Current/A_V>10	$2.95
2	LT1396	1000		10000		400	800	4.5	80	6.5	3	12.6		DFN-8/MS-8/SO-8	CFA	CFA/100MHz 0.1dB BW	$1.95
2	LT1807	1000	220	550	4000	325	125	3.5	35	13	2.5	12.6	yes	MS-8/SO-8	VFB	High Speed/Precision/Low Noise	$3.40
2	LT1398	1000		10000		300	800	4.5	80	6.5	3	12.6		SO-16	CFA	0.1dB Gain Flatness to 150MHz	$2.25
2	LT6231	1000	260	350	10000	215	70	1.1	30	3.75	3	12.6	out	DFN-8/SO-8	VFB	Ultralow Noise/Low Power/High Speed	$1.95
2	LT6201	1000	200	1000	40000	165	50	0.95	60	23	2.5	12.6	yes	DFN-8/SO-8	VFB	Low Noise/RRIO/High Speed	$3.65
2	LT1810	1000	80	2500	8000	160	300	16	45	17	2.3	12.6	yes	MS-8/SO-8	VFB	Low Distortion/High Speed/Low Noise	$2.65
2	LT1259	1000	3.98	12000		130	1600	3.6	30	7.5	4	36		DIP-14/SO-14	CFA	Low Cost High Voltage CFA/Shutdown	$2.45
2	LT6206	1000	133	4500	30000	100	600	9	25	5.6	3	12.6	out	MS-8	VFB	3V 100MHz Single Supply Video Amp	$1.05
2	LT6203	1000	200	500	7000	100	25	1.9	30	3.5	2.5	12.6	yes	DFN-8/MS-8/SO-8	VFB	Low Noise/Low Power/RRIO	$2.45
2	LT1804	1000	60	2000	750	83	100	21	20	3	2.3	12.6	yes	DFN-8/SO-8	VFB	RRIO/High Speed	$1.95
2	LT1801	1000	85	350	250	80	25	8.5	20	2	2.3	12.6	yes	DFN-8/MS-8/SO-8	VFB	High Speed/Power/Precision/RRIO	$1.95
2	LT1795	1000	2.51	13000		65	900	3.6	500	34	10	36		SOW-20/TSSOP-20	CFA	High I_{OUT}/High Speed	$4.95
2	LT6234	1000	180	350	3000	60	17	1.9	40	1.25	3	12.6	out	DFN-8/SO-8	VFB	Ultralow Noise/Low Power	$2.45
2	LT1213	1000	850	150	160	28	8.5	10	30	3.8	2.5	36	ss	DIP-8/SO-8	VFB	Precision/Fast/CM to V^-	$2.85
2	LT1215	1000	150	300	500	23	30	12	30	6.6	2.5	36	ss	DIP-8/SO-8	VFB	Precision/Fast/CM to V^-	$2.85
2	LT1169	1000	4500	2000	0.02	5.3	4.2	6	12	6.5	9	40		DIP-8/SO-8	VFB	Low Noise JFET	$3.85
2	LT1881	1000	1600	50	0.2	1	0.35	14	5	0.9	2.4	40	out	DIP-8/SO-8	VFB	Picoamp Input Current/Precision	$2.75
2	LT1464	1000	1000	800	0.002	1	0.9	24	6.65	0.2	10	40		DIP-8/SO-8	JFET	JFET with Excellent C-Load Stability	$2.50
2	LT1024	1000	2000	50	0.12	1	0.2	14	10 Typ	0.6	4	40		DIP-14	VFB	Low V_{OS}/Low Power	$4.75
2	LT1366	1000	2000	475	35	0.4	0.13	29	30	0.52	2	36	yes	DIP-8/SO-8	VFB	C-Load Stable up to 1000pF	$3.50
2	LT1462	1000	600	800	0.002	0.175	0.13	76	13	0.045	10	40		DIP-8/SO-8	JFET	JFET with Excellent C-Load Stability	$2.50
2	LT1495	1000	500	375	1	0.0027	0.001	185	0.7	0.0015	2.1	36	yes	DIP-8/SO-8	VFB	Ultralow Power/Rail-to-Rail/Precision	$2.45
2	LT6004	900	150	500	0.009	0.002	0.0008	325	2	1	1.6	16	yes	DFN-8/MS-8	VFB	1.6V, 1µA Precision RRIO	$1.10
2	LT1678	500	3000	100	20	20	6	3.9	15	3.4	3	36	yes	SO-8	VFB	Very Low 1/f Corner Frequency	$2.50
2	LT1884	500	1600	50	0.4	2	0.9	9.5	15	0.9	2.4	40	out	DIP-8/SO-8	VFB	Picoamp Input Current/Precision	$2.75
2	LT6014	500	2000	60	0.4	1.6	0.2	9.5	8	0.165	2.7	40	out	DFN-8/SO-8	VFB	Micropower/Precision/RRO/A_V>5	$1.65
2	LT6011	500	2000	60	0.3	0.33	0.09	14	1	0.15	2.4	40	out	DFN-8/SO-8/MS-8	VFB	Micropower/Precision/RRO	$1.65
3	LT1399	1000		10000		300	800	4.5	80	6.5	3	12.6		SSOPN-16/SO-16	CFA	0.1dB Gain Flatness to 150MHz	$2.45
3	LT1399HV	1000		10000		300	800	4.5	80	7	3	15.5		SO-16	CFA	0.1dB Gain Flatness to 150MHz	$3.05
3	LT1260	1000	3.98	12000		130	1600	3.6	30	7.5	4	36		DIP-16/SO-16	CFA	Low Cost High Voltage CFA/Shutdown	$2.60
4	LT1114	All	5000	60	0.25	0.75	0.3	14	5.5	0.4	2	40		DIP-14/SO-16	VFB	Low Power/Matching Specs/C-Load Stable	$4.40
4	LT1365	All	9	1500	2000	70	1000	9	50	7.2	3	36		DIP-14/SO-16	VFB	High Speed/Precision/C-Load	$6.45
4	LT1362	All	9	1000	1000	50	800	9	26	4.8	5	36		SO-16/DIP-14	VFB	High Speed/Precision/C-Load	$6.00
4	LT1209	All	7	3000	8000	45	400	22	24	9	8	36		DIP-14/SO-16	VFB	Fast C-Load	$6.65
4	LT1359	All	65	600	500	25	600	8	24	2.5	5	36		SO-16/SO-14/DIP-14	VFB	High Speed/Precision/C-Load	$6.50
4	LT1356	All	13.4	800	300	12	400	10	25	1.25	5	36		SO-16/DIP-14	VFB	High Speed/Precision/C-Load	$6.45
4	LT1353	All	80	600	50	3	200	14	30	0.33	5	36		SO-14	VFB	High Speed/Precision/C-Load	$6.70
4	LT1369	100000	2000	800	35	0.16	0.065	29	30	0.52	2	36	yes	SO-14	VFB	Stable with 100nF C-Load	$6.10
4	LT1499	30000	3800	475	650	10.5	4.5	12	12.5	2.2	2.2	36	yes	SO-14	VFB	Stable with Large C-Load	$5.60
4	LT1674	10000	500	375	1	0.012	0.005	185	0.7	0.002	2.1	36	yes	DIP-14/SO-14	VFB	Ultralow Power/Over-The-Top Inputs	$3.25
4	LT1212	8000	560	275	125	13	7	12	20	1.8	2.5	36	ss	DIP-14/SO-16	VFB	Precision/Single Supply/Wide V_{SUPPLY}	$5.10
4	LT1058	8000	350	600	0.05	5	14	13	20 Typ	2.5	8	40		DIP-14/SOW-16	JFET	Low Offset JFET Input	$4.20
4	LT6222	7000	100	350	150	60	20	10	20	1	2.2	12.6	yes	SSOP-16	VFB	Precision/Low Power/RRIO	$2.95
4	LT1639	6000	1500	600	50	1.075	0.38	20	15	0.23	2.2	44	yes	DIP-14/SO-14	VFB	High Voltage/Over-The-Top/Low Power	$3.30
4	LT1179	2500	2500	100	5	0.085	0.04	49	5.5	0.017	2	44	ss	DIP-14/SOW-16	VFB	Precision/Micropower/Single Supply	$3.70
4	LT1230	2000		10000		100	700	3.2	30	9.5	4	36		DIP-14/SO-14	CFA	General Purpose High Voltage CFA	$7.00
4	LT1079	1800	1000	100	8	0.2	0.07	28	5.5	0.05	2.2	44	ss	DIP-14/SOW-16	VFB	Precision/Micropower/Single Supply	$3.40
4	LT1397	1000		10000		400	800	4.5	80	6.5	3	12.6		DFN-14/SO-14/SSOPN-16	CFA	CFA/100MHz 0.1dB BW	$2.75
4	LT6232	1000	260	350	10000	215	70	1.1	30	3.75	3	12.6	out	SSOP-16	VFB	Ultralow Noise/Low Power/High Speed	$3.30
4	LT6207	1000	133	4500	30000	100	600	9	25	5.6	3	12.6	out	SSOPN-16	VFB	3V 100MHz Single Supply Video Amp	$1.55
4	LT6204	1000	200	500	7000	100	25	1.9	30	3.5	2.5	12.6	yes	SO-14/SSOPN-16	VFB	Low Noise/Low Power/RRIO	$4.50
4	LT1805	1000	60	2000	750	85	100	21	20	3	2.3	12.6	yes	SO-14	VFB	RRIO/High Speed	$3.50
4	LT1802	1000	85	350	250	80	25	8.5	20	2	2.3	12.6	yes	SO-14	VFB	High Speed/Power/Precision/RRIO	$3.50

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Amplifiers Per Package	Part Number	†† C-Load Stable (pF)	A_{VOL} Typ 25°C (V/mV)	V_{OS} Max 25°C (µV)	I_{BIAS} Max 25°C (nA)	††† GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/µs)	E_{NOISE} Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_{SUPPLY} Per Ampl Max 25°C (mA)	V_{SUPPLY} Min (V)	V_{SUPPLY} Max (V)	Rail-to-Rail I/O[1]	Package	Type[2]	Features	Price 1K Qty
4	LT6235	1000	180	350	3000	60	17	1.9	40	1.25	3	12.6	out	SSOP-16	VFB	Ultralow Noise/Low Power	$4.15
4	LT1214	1000	250	275	200	28	8.5	10	30	3.8	2.5	36	ss	DIP-14/SO-16	VFB	Precision/Fast CM to V^-	$5.10
4	LT1216	1000	600	450	600	23	30	12	30	6.6	2.5	36	ss	DIP-14/SO-16	VFB	Precision/Fast/CM to V^-	$5.10
4	LT1882	1000	1600	80	0.5	1	0.35	14	5	0.9	2.4	40	out	SO-14	VFB	Picoamp Input Current/Precision	$4.85
4	LT1465	1000	900	800	0.002	1	0.9	24	6.65	0.2	10	40		DIP-14/SO-14	JFET	JFET with Excellent C-Load Stability	$4.30
4	LT1367	1000	2000	800	35	0.4	0.13	29	30	0.52	2	36	yes	SO-14	VFB	C-Load Stable up to 1000pF	$6.10
4	LT1463	1000	600	800	0.002	0.125	0.13	76	13	0.045	10	40		DIP-14/SO-14	JFET	JFET with Excellent C-Load Stability	$4.30
4	LT1496	1000	500	375	1	0.0027	0.001	185	0.7	0.0015	2.1	36	yes	DIP-14/SO-14	VFB	Ultralow Power/Precision/RRIO	$3.25
4	LT6005	900	150	650	0.009	0.002	0.0008	325	2	1	1.6	16	yes	SSOP-16/DFN-16	VFB	1.6V, 1µA Precision RRIO	$1.75
4	LT1679	500	3000	100	20	20	6	3.9	15	3.4	3	36	yes	SO-14	VFB	Very Low 1/f Corner Frequency	$3.85
4	LT1885	500	1600	80	0.9	2	0.9	9.5	15	0.9	2.4	40	out	SO-14	VFB	Picoamp Input Current/Precision	$4.85
4	LT6012	500	2000	60	0.3	0.33	0.09	14	1	0.15	2.4	40	out	SO-14/SSOPN-16	VFB	Micropower/Precision/RRO	$2.95

† Primary Sort Column
†† Secondary Sort Column
††† Tertiary Sort Column

Notes:

1. ss = Input common mode range includes negative supply rail
2. Topology: VFB = Voltage Feedback, CFA = Current Feedback, ZD = Zero-Drift Amplifier, IA = Instrumentation Amplifier, JFET = JFET Input Stage, BUF = Buffer, MUX = Multiplexer, VIDEO = Optimized for Video Applications, DIFF = Fully Differential Amplifier, SGA = Selectable Gain Difference Amplifier, CSA = Current Sense Amplifier, PGA = Programmable Gain Amplifier

CURRENT SENSE AMPLIFIERS

Part Number	Direction	† V_{OS} Max 25°C (µV)	TC of V_{OS} Typ (µV/°C)	Bias Current Max 25°C (µA)	Max Input Voltage (V)	Separate Supply (yes/no)	I_{SUPPLY} Max 25°C (µA)	Gain V_{OUT}/V_{SENSE}	PSRR Min (dB)	Package	Comments	Price 1K Qty
LTC6102	Unidirectional	10	0.05	0.003	70	optional	450	Programmable	130	DFN-8, MSOP-8	Ultra-Precise, Zero-Drift, High Speed. "-1" Has Shutdown Mode	$1.72
LTC6102HV	Unidirectional	10	0.05	0.003	105	optional	450	Programmable	130	DFN-8, MSOP-8	Ultra-Precise, Zero-Drift, High Speed	$2.06
LT1787	Bidirectional	75	0.5	20	36	no	120	8	120	SO-8, MSOP-8	Precision, Low Power, V_S from 2.5V	$2.25
LT1787HV	Bidirectional	75	0.5	20	60	no	120	8	120	SO-8, MSOP-8	Precision, Low Power, V_S from 2.5V	$3.05
LTC4150	Bidirectional	100	–	15	9	yes	140	V-F Conversion	–	MSOP-8	Coulomb Counter, Battery Gas Gauge	$1.50
LT6107	Unidirectional	250	1 Typ	0.04	44	optional	95	Programmable	106	SOT-23	Tested Over –55°C to 150°C, Military Plastic Package	$2.35
LT6106	Unidirectional	250	1 Typ	0.04	44	optional	95	Programmable	106	SOT-23	Low Cost, Precision, Flexible	$0.87
LT6105	Unidirectional	300	0.5 Typ	25	44	yes	300	Programmable	100	DFN-6, MSOP-8	–0.3V to 44V Input Common Mode Range	$0.99
LT6100	Unidirectional	300	3	10	48	yes	130	Programmable	105	DFN-8, MSOP-8	MOSFET and Fuse Monitoring OK	$1.18
LTC6101	Unidirectional	300	1	0.17	70	optional	450	Programmable	110	SOT-23, MSOP-8	High Speed, Precise, and Flexible	$1.04
LTC6101HV	Unidirectional	300	1	0.17	105	optional	450	Programmable	110	SOT-23, MSOP-8	High Speed, Precise, and Flexible	$1.30
LTC6103	Unidirectional	450	1.5	0.17	70	optional	500	Programmable	110	MSOP-8	Dual, Fast, Precise, and Flexible	$1.66
LTC6104	Bidirectional	450	1.5	0.17	70	no	520	Programmable	110	MSOP-8	High Speed, Precise, and Flexible	$1.38
LTC4151	Unidirectional	4000	–	–	80	no	300 (85°C)	–	–	MSOP-10, 3×3 DFN-10	80V Current Sense and Voltage Monitor	$2.60
LTC2990	**Unidirectional**	**–**	**–**	**–**	**5.5**	**yes**	**1800**	**–**	**–**	**MSOP-10**	**3V to 5.5V Temperature, Voltage and Current Monitor, 13-Bit ADC, 0.06°C Resolution and 1°C Accuracy, Can Measure Two Remote Diode Temperatures**	**C.F.**

† Primary Sort Column

PROGRAMMABLE GAIN AMPLIFIERS

Part Number	Gain Range (V/V)	Supply Voltage Min (V)	Supply Voltage Max (V)	I_{SUPPLY} Max 25°C (mA)	Rail-to-Rail I/O	e_n Typ (nV/√Hz)	System Dynamic Range (dB)	GBW Typ 25°C (MHz)	Package	Important Features	Price
LTC6910-1	0, 1, 2, 5, 10, 20, 50, 100	2.7	10.5	3	yes	9	120	11	SOT-23	3-Bit Digital Gain Control, 8-Pin SOT-23	$1.10
LTC6910-2	0, 1, 2, 4, 8, 16, 32, 64	2.7	10.5	3	yes	9	120	13	SOT-23	3-Bit Digital Gain Control, 8-Pin SOT-23	$1.10
LTC6910-3	0, 1, 2, 3, 4, 5, 6, 7	2.7	10.5	3	yes	10.5	117	11	SOT-23	3-Bit Digital Gain Control, 8-Pin SOT-23	$1.10
LTC6911-1	0, 1, 2, 5, 10, 20, 50, 100	2.7	10.5	3	yes	9	120	11	MSOP-10	Dual, Matched Channels	$2.00
LTC6911-2	0, 1, 2, 4, 8, 16, 32, 64	2.7	10.5	3	yes	9	120	13	MSOP-10	Dual, Matched Channels	$2.00
LTC6912-1	0, 1, 2, 5, 10, 20, 50, 100	2.7	10.5	2.75	yes	15.1	115	30	SSOP-16/4×3 DFN-12	Dual, Independent Channels, SPI	$2.15
LTC6912-2	0, 1, 2, 4, 8, 16, 32, 64	2.7	10.5	2.75	yes	15.1	115	30	SSOP-16/4×3 DFN-12	Dual, Independent Channels, SPI	$2.15
LTC6915	0, 1, 2, 4, 8, 16, 32, 64, 128, … 4096	2.7	11	1.6	yes	50	123	0.2	SSOP-16/4×3 DFN-12	Serial or Par. PGA/IA/ Av=0 to 4096 V/V	$2.44

GAIN SELECTABLE AMPLIFIERS

Part Number	Gain Range (V/V)	Supply Voltage Min (V)	Supply Voltage MAX (V)	I_{SUPPLY} Max 25°C (mA)	Rail-to-Rail I/O	e_n Typ (nV/√Hz)	GBW Typ 25°C (MHz)	Package	Important Features	Price
LT1991	–13 to 14	2.7	36	0.11	out	46	0.56	MSOP-10	Precision, Pin Configurable Gain Diff Amplifier	$1.10
LT1991A	–13 to 14	2.7	36	0.11	out	46	0.56	MSOP-10	Precision, Pin Configurable Gain Diff Amplifier	$1.65
LT1990	1 or 10	2.7	36	0.12	out	1000	0.1	SO-8	±250V Input, Pin Configurable Gain Diff Amplifier	$1.30
LT1990A	1 or 10	2.7	36	0.12	out	1000	0.1	SO-8	±250V Input, Pin Configurable Gain Diff Amplifier	$1.65
LT1995	–7 to 8	5	36	8.5	no	27	30	MSOP-10	High Speed, Pin Configurable Gain Diff Amplifier	$1.89
LT1996	–117 to 118	2.7	36	0.11	out	46	0.56	MSOP-10	Precision, Pin Configurable Gain Diff Amplifier	$1.10

DIFFERENTIAL AMPLIFIERS WITH INTEGRATED FILTER

Part Number	Filter Characteristics: Function	Filter Order	Cutoff Frequency (MHz)	Passband Ripple (dB)	Differential Inputs	Differential Outputs	Adjustable Output Common Mode	Resistor Prog. Gain (V/V)	SNR (dB)	I/P Referred Differential Offset (mV, Typ)	Differential Offset Drift (µV/°C, Typ)	Supply Voltage Min (V)	Supply Voltage Max (V)	I_{SUPPLY} Max/Ampl (mA)	Package	Price 1K Qty
Singles																
LTC1992	Lowpass	1	4	n/a	yes	yes	yes	yes		2.5	10	2.7	±5	1	MSOP-8	$1.65
LTC1992-X	Lowpass	1	4	n/a	yes	yes	yes	Fixed Gain, A_V=1,2,5,10		2.4	10	2.7	±5	1.0	MSOP-8	$3.95
LT1993-X	Lowpass	1	175		yes	yes	yes	Fixed Gain, A_V=2,4,10		6.5	2.5	4	5.5	112	3×3 QFN-16	$2.95
LTC6601-1	Lowpass	2	5 to 27	n/a	yes	yes	yes	Pin-Strapped (–7dB to 7dB)	82.3	0.25	1	2.7	5.25	43	4×4 QFN-20	$3.95
LTC6601-2	**Lowpass**	**2**	**5 to 27**	**n/a**	**yes**	**yes**	**yes**	**Pin-Strapped (–7dB to 7dB)**	**77**	**0.25**	**1**	**2.7**	**5.25**	**26 or 43**	**4×4 QFN-20**	**$3.95**
LT6600-2.5	Lowpass	4	2.5	0.5	yes	yes	yes	yes	86	3	10	2.7	±5	30	SO-8	$2.95
LT6600-5	Lowpass	4	5	0.5	yes	yes	yes	yes	82	13	10	2.7	±5	28	SO-8	$2.95
LT6600-10	Lowpass	4	10	0.5	yes	yes	yes	yes	82	5	5	2.7	±5	39	SO-8	$2.95
LT6600-15	Lowpass	4	15	0.5	yes	yes	yes	yes	76	15	10	2.7	±5	39	SO-8	$2.95
LT6600-20	Lowpass	4	20	0.5	yes	yes	yes	yes	76	10	10	2.7	±5	46	SO-8	$2.95
LT1568	Any	4	0.2 to 10	0.25	yes	yes	yes	yes	92	4		2.7	±5	35	SSOP-16	$4.25
Duals																
LTC6605-7	Lowpass	2	6.5 to 10	n/a	yes	yes	yes	Pin Prog, A_V=1,4,5	no spec	0.25	1	2.7	5.25	45	6×3 DFN-22	$6.95
LTC6605-10	Lowpass	2	9.7 to 14	n/a	yes	yes	yes	Pin Prog, A_V=1,4,5	no spec	0.25	1	2.7	5.25	45	6×3 DFN-22	$6.95
LTC6605-14	Lowpass	2	12.4 to 20	n/a	yes	yes	yes	Pin Prog, A_V=1,2,3	no spec	0.25	1	2.7	5.25	45	6×3 DFN-22	$6.95
LT6604-2.5	Lowpass	4	2.5	0.5	yes	yes	yes	yes	86	3	10	3	±5	30	4×7 QFN-34	$6.50
LT6604-5	Lowpass	4	5	0.5	yes	yes	yes	yes	82	5	10	3	±5	31	4×7 QFN-34	$6.50
LT6604-10	Lowpass	4	10	0.5	yes	yes	yes	yes	82	5	10	3	±5	39	4×7 QFN-34	$6.50
LT6604-15	Lowpass	4	15	0.5	yes	yes	yes	yes	76	5	10	3	±5	39	4×7 QFN-34	$6.50

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current	Part Order Number	Package Type	I_Q Max or Shunt Current	Dropout Voltage	0.1 - 10Hz Typ Noise (μV_{P-P})	Comment	Price 1K Qty
0.2	Series	0°C to 70°C	5.5	30 Typ	±10mA	LT1635CN8	DIP-8	130µA	0.8V	–	200mV Reference with Buffer and Independent Op Amp	$1.75
0.2	Series	0°C to 70°C	5.5	30 Typ	±10mA	LT1635CS8	SO-8	130µA	0.8V	–	200mV Reference with Buffer and Independent Op Amp	$1.95
0.2	Series	–40°C to 85°C	5.5	30 Typ	±10mA	LT1635IN8	DIP-8	130µA	0.8V	–	200mV Reference with Buffer and Independent Op Amp	$2.15
0.2	Series	–40°C to 85°C	5.5	30 Typ	±10mA	LT1635IS8	SO-8	130µA	0.8V	–	200mV Reference with Buffer and Independent Op Amp	$2.40
0.400	Series	0°C to 70°C	0.5	30 Typ	±200µA	LT6650CS5	SOT-23-5	11µA	0.1V	20	400mV Reference with Buffer Amplifier	$1.25
0.400	Series	–40°C to 85°C	0.5	30 Typ	±200µA	LT6650IS5	SOT-23-5	11µA	0.1V	20	400mV Reference with Buffer Amplifier	$1.69
0.400	Series	–40°C to 125°C	0.5	30 Typ	±200µA	LT6650HS5	SOT-23-5	11µA	0.1V	20	400mV Reference with Buffer Amplifier	$1.69
1.225/7	Shunt	0°C to 70°C	1.20	20	Shunt	LT1034BCZ-1.2	TO-92	30µA-20mA	Shunt	6	Micropower, Includes Auxiliary 7V Reference	$2.75
1.225/7	Shunt	0°C to 70°C	1.20	40	Shunt	LT1034CS8-1.2	SO-8	30µA-20mA	Shunt	6	Micropower, Includes Auxiliary 7V Reference	$2.35
1.225/7	Shunt	0°C to 70°C	1.20	40	Shunt	LT1034CZ-1.2	TO-92	30µA-20mA	Shunt	6	Micropower, Includes Auxiliary 7V Reference	$2.05
1.225/7	Shunt	–40°C to 85°C	1.20	20	Shunt	LT1034BIZ-1.2	TO-92	30µA-20mA	Shunt	6	Micropower, Includes Auxiliary 7V Reference	$4.75
1.225/7	Shunt	–40°C to 85°C	1.20	40	Shunt	LT1034IS8-1.2	SO-8	30µA-20mA	Shunt	6	Micropower, Includes Auxiliary 7V Reference	$3.30
1.225/7	Shunt	–40°C to 85°C	1.20	40	Shunt	LT1034IZ-1.2	TO-92	30µA-20mA	Shunt	6	Micropower, Includes Auxiliary 7V Reference	$2.95
1.235	Shunt	0°C to 70°C	0.3	20 Typ	Shunt	LT1004CS8-1.2	SO-8	10µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$1.60
1.235	Shunt	0°C to 70°C	0.3	20 Typ	Shunt	LT1004CZ-1.2	TO-92	10µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$1.30
1.235	Shunt	–40°C to 85°C	0.30	20 Typ	Shunt	LT1004IS8-1.2	SO-8	10µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$3.10
1.235	Shunt	–40°C to 85°C	0.30	20 Typ	Shunt	LT1004IZ-1.2	TO-92	10µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$2.75
1.25	Shunt	0°C to 70°C	0.05	10	Shunt	LT1389ACS8-1.25	SO-8	600nA-20mA	Shunt	20	Lowest Power Shunt Reference Available	$5.25
1.25	Shunt	0°C to 70°C	0.05	10	Shunt	LT1634ACS8-1.25	SO-8	7µA-100mA	Shunt	10	Upgrade for LT1004/1034 and LM185/385	$4.50
1.25	Series	0°C to 70°C	0.05	10	–1mA to 5mA	LT1790ACS6-1.25	SOT-23-6	60µA	0.1V	10	High Precision SOT-23 Reference	$2.91
1.25	Shunt	0°C to 70°C	0.05	20	Shunt	LT1389BCS8-1.25	SO-8	600nA-20mA	Shunt	20	Lowest Power Shunt Reference Available	$3.10
1.25	Shunt	0°C to 70°C	0.05	25	Shunt	LT1634BCMS8-1.25	MSOP-8	7µA-100mA	Shunt	10	Upgrade for LT1004/1034 and LM185/385	$2.60
1.25	Shunt	0°C to 70°C	0.05	25	Shunt	LT1634BCS8-1.25	SO-8	7µA-100mA	Shunt	10	Upgrade for LT1004/1034 and LM185/385	$2.35
1.25	Series	0°C to 70°C	0.10	25	–1mA to 5mA	LT1790BCS6-1.25	SOT-23-6	60µA	0.1V	10	Lowest Cost Precision Series Reference, SOT-23	$1.25
1.25	Shunt	0°C to 70°C	0.20	25	Shunt	LT1634CCZ-1.25	TO-92	7µA-100mA	Shunt	10	Upgrade for LT1004/1034 and LM185/385	$2.10
1.25	Series	–40°C to 85°C	0.05	10	–1mA to 5mA	LT1790AIS6-1.25	SOT-23-6	60µA	0.1V	10	High Precision SOT-23 Reference	$3.31
1.25	Shunt	–40°C to 85°C	0.05	10	Shunt	LT1634AIS8-1.25	SO-8	7µA-100mA	Shunt	10	Upgrade for LT1004/1034 and LM185/385	$4.95
1.25	Shunt	–40°C to 85°C	0.05	25	Shunt	LT1634BIS8-1.25	SO-8	7µA-100mA	Shunt	10	Upgrade for LT1004/1034 and LM185/385	$2.85
1.25	Series	–40°C to 85°C	0.10	25	–1mA to 5mA	LT1790BIS6-1.25	SOT-23-6	60µA	0.1V	10	Lowest Cost Precision Series Reference, SOT-23	$1.56
1.25	Series	–40°C to 125°C	0.05	5	±5mA	LTC6652AHMS8-1.25	MSOP-8	560µA	1.55V	2.5	Precision, Low Noise, High Temperature Reference	$3.36
1.25	Series	–40°C to 125°C	0.1	10	±5mA	LTC6652BHMS8-1.25	MSOP-8	560µA	1.55V	2.5	Precision, Low Noise, High Temperature Reference	$1.65
2.048	Series	0°C to 70°C	0.05	10	–3mA to 5mA	LT1790ACS6-2.048	SOT-23-6	60µA	0.1V	22	High Precision SOT-23 Reference	$2.91
2.048	Series	0°C to 70°C	0.10	25	–3mA to 5mA	LT1790BCS6-2.048	SOT-23-6	60µA	0.1V	22	Lowest Cost Precision Series Reference, SOT-23	$1.25
2.048	Series	–40°C to 85°C	0.05	10	–3mA to 5mA	LT1790AIS6-2.048	SOT-23-6	60µA	0.1V	22	High Precision SOT-23 Reference	$3.31
2.048	Series	–40°C to 85°C	0.10	25	–3mA to 5mA	LT1790BIS6-2.048	SOT-23-6	60µA	0.1V	22	Lowest Cost Precision Series Reference, SOT-23	$1.56
2.048	Series	–40°C to 125°C	0.05	5	±5mA	LTC6652AHMS8-2.048	MSOP-8	560µA	0.712V	4.1	Precision, Low Noise, High Temperature Reference	$3.36
2.048	Series	–40°C to 125°C	0.1	10	±5mA	LTC6652BHMS8-2.048	MSOP-8	560µA	0.712V	4.1	Precision, Low Noise, High Temperature Reference	$1.65
2.5	Series	0°C to 70°C	0.04	3	0mA to 50mA	LT1461ACS8-2.5	SO-8	50µA	0.3V	20	Highest Precision LDO Reference Available, Shutdown	$5.10
2.5	Series	0°C to 70°C	0.05	5	±10mA	LT1019ACN8-2.5	DIP-8	1.0mA	1.1V	6	Tight Tolerance, Low TC and Runs on 5V Supplies	$6.25
2.5	Series	0°C to 70°C	0.05	5	±10mA	LT1019ACS8-2.5	SO-8	1.0mA	1.1V	6	Tight Tolerance, Low TC and Runs on 5V Supplies	$5.40
2.5	Series	0°C to 70°C	0.06	7	0mA to 50mA	LT1461BCS8-2.5	SO-8	50µA	0.3V	20	Tight Tolerance, Low TC and Low Dropout, Shutdown	$3.50
2.5	Series	0°C to 70°C	0.05	10	–3mA to 5mA	LT1790ACS6-2.5	SOT-23-6	60µA	0.1V	32	High Precision SOT-23 Reference	$2.91
2.5	Shunt	0°C to 70°C	0.05	10	Shunt	LT1634ACS8-2.5	SO-8	7µA-50mA	Shunt	15	Upgrade for LT1004/1034 and LM185/385	$4.50
2.5	Series	0°C to 70°C	0.075	10	–1mA to 20mA	LT1460ACN8-2.5	DIP-8	130µA	0.9V	10	Output Capacitor Optional	$3.20
2.5	Series	0°C to 70°C	0.075	10	–1mA to 20mA	LT1460ACS8-2.5	SO-8	130µA	0.9V	10	Output Capacitor Optional	$3.35
2.5	Series	0°C to 70°C	0.10	12	0mA to 50mA	LT1461CCS8-2.5	SO-8	50µA	0.3V	20	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.50
2.5	Series	0°C to 70°C	0.10	15	–1mA to 20mA	LT1460CCMS8-2.5	MSOP-8	130µA	0.9V	10	Output Capacitor Optional	$3.35
2.5	Shunt	0°C to 70°C	0.05	20	Shunt	LT1389BCS8-2.5	SO-8	600nA-20mA	Shunt	40	Lowest Power Shunt Reference Available	$3.10
2.5	Series	0°C to 70°C	0.10	20	–1mA to 20mA	LT1460DCN8-2.5	DIP-8	130µA	0.9V	10	Output Capacitor Optional	$2.00
2.5	Series	0°C to 70°C	0.10	20	–1mA to 20mA	LT1460DCS8-2.5	SO-8	130µA	0.9V	10	Output Capacitor Optional	$2.05
2.5	Series	0°C to 70°C	0.20	20	±10mA	LT1019CN8-2.5	DIP-8	1.2mA	1.1V	6	Precision Series Reference, Runs on 5V Supplies	$3.70
2.5	Series	0°C to 70°C	0.20	20	±10mA	LT1019CS8-2.5	SO-8	1.2mA	1.1V	6	Precision Series Reference, Runs on 5V Supplies	$4.65
2.5	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT1460HCS3-2.5	SOT-23	145µA	0.9V	10	Precision SOT-23 Reference	$3.00

† Primary Sort Column
†† Secondary Sort Column

† Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current	Part Order Number	Package Type	I_Q Max or Shunt Current	Dropout Voltage	0.1 - 10Hz Typ Noise (μV_{P-P})	Comment	Price 1K Qty
2.5	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT6660HCDC-2.5	DFN	145µA	0.9V	10	2×2 Pkg, 20mA Output, No Output Cap	$1.32
2.5	Series	0°C to 70°C	0.4	20	–1mA to 20mA	LT1460JCS3-2.5	SOT-23	145µA	0.9V	10	SOT-23 Reference, Output Cap Optional	$2.45
2.5	Series	0°C to 70°C	0.4	20	–1mA to 20mA	LT6660JCDC-2.5	DFN	145µA	0.9V	10	2×2 Pkg, 20mA Output, No Output Cap	$1.16
2.5/7	Shunt	0°C to 70°C	1.60	20	Shunt	LT1034BCZ-2.5	TO-92	30µA-20mA	Shunt	6	Micropower, Auxiliary 7V Reference	$2.75
2.5	Shunt	0°C to 70°C	0.05	25	Shunt	LT1634BCMS8-2.5	MSOP-8	7µA-50mA	Shunt	15	Upgrade for LT1004/1034 and LM185/385	$2.60
2.5	Shunt	0°C to 70°C	0.05	25	Shunt	LT1634BCS8-2.5	SO-8	7µA-50mA	Shunt	15	Upgrade for LT1004/1034 and LM185/385	$2.35
2.5	Series	0°C to 70°C	0.1	25	–3mA to 5mA	LT1790BCS6-2.5	SOT-23	60µA	0.1V	32	Lowest Cost Precision Series Reference also SOT-23	$1.25
2.5	Series	0°C to 70°C	0.15	25	–1mA to 20mA	LT1460FCMS8-2.5	MSOP-8	130µA	0.9V	10	Output Capacitor Optional	$2.20
2.5	Shunt	0°C to 70°C	0.20	25	Shunt	LT1009CZ	TO-92	400µA-10mA	Shunt	–	General Purpose Shunt Reference	$1.30
2.5	Shunt	0°C to 70°C	0.20	25	Shunt	LT1634CCZ-2.5	TO-92	7µA-50mA	Shunt	15	Upgrade for LT1004/1034 and LM185/385	$2.10
2.5	Series	0°C to 70°C	0.25	25	–1mA to 20mA	LT1460GCZ-2.5	TO-92	130µA	0.9V	10	Precision TO-92 Series Reference, Output Cap Optional	$1.60
2.5	Shunt	0°C to 70°C	0.40	25	Shunt	LT1009CMS8	MSOP-8	400µA-10mA	Shunt	–	General Purpose Shunt Reference	$1.85
2.5	Shunt	0°C to 70°C	0.40	25	Shunt	LT1009S8	SO-8	400µA-10mA	Shunt	–	General Purpose Shunt Reference	$1.75
2.5	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1258CS8-2.5	SO-8	6.5µA	0.1V	20	Lowest Power LDO Reference Available	$2.10
2.5	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1798CS8-2.5	SO-8	6.5µA	0.1V	20	Industry Standard Pinout Version of LTC1258	$2.10
2.5/7	Shunt	0°C to 70°C	1.60	40	Shunt	LT1034CS8-2.5	SO-8	30µA-20mA	Shunt	6	Micropower, Auxiliary 7V Reference	$2.35
2.5/7	Shunt	0°C to 70°C	1.60	40	Shunt	LT1034CZ-2.5	TO-92	30µA-20mA	Shunt	6	Micropower, Auxiliary 7V Reference	$2.05
2.5	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT1460KCS3-2.5	SOT-23	145µA	0.9V	10	Low Cost SOT-23 Reference Output Cap Optional	$1.35
2.5	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT6660KCDC-2.5	DFN	145µA	0.9V	10	2×2 Pkg, 20mA Output, No Output Cap	$0.88
2.5	Series	0°C to 70°C	0.21	60	–2mA to 10mA	LTC1258CMS8-2.5	MSOP-8	6.5µA	0.1V	20	Lowest Power LDO Reference Available	$2.40
2.5	Shunt	0°C to 70°C	0.80	20 Typ	Shunt	LT1004CS8-2.5	SO-8	20µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$1.60
2.5	Shunt	0°C to 70°C	0.80	20 Typ	Shunt	LT1004CZ-2.5	TO-92	20µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$1.30
2.5	Series	–40°C to 85°C	0.04	3	0mA to 50mA	LT1461AIS8-2.5	SO-8	50µA	0.3V	20	Highest Precision LDO Reference Available, Shutdown	$5.40
2.5	Series	–40°C to 85°C	0.06	7	0mA to 50mA	LT1461BIS8-2.5	SO-8	50µA	0.3V	20	Tight Tolerance, Low TC and Low Dropout, Shutdown	$3.85
2.5	Series	–40°C to 85°C	0.05	10	–3mA to 5mA	LT1790AIS6-2.5	SOT-23	60µA	0.1V	32	High Precision SOT-23 Reference	$3.31
2.5	Series	–40°C to 85°C	0.05	10	±10mA	LT1019AIS8-2.5	SO-8	1.0mA	1.1V	6	Tight Tolerance, Low TC and Runs on 5V Supplies	$5.65
2.5	Shunt	–40°C to 85°C	0.05	10	Shunt	LT1634AIS8-2.5	SO-8	7µA-50mA	Shunt	15	Upgrade for LT1004/1034 and LM185/385	$4.95
2.5	Series	–40°C to 85°C	0.10	10	–1mA to 20mA	LT1460BIN8-2.5	DIP-8	130µA	0.9V	10	Output Capacitor Optional	$4.80
2.5	Series	–40°C to 85°C	0.10	10	–1mA to 20mA	LT1460BIS8-2.5	SO-8	130µA	0.9V	10	Output Capacitor Optional	$4.85
2.5	Series	–40°C to 85°C	0.10	12	0mA to 50mA	LT1461CIS8-2.5	SO-8	50µA	0.3V	20	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.75
2.5	Series	–40°C to 85°C	0.125	20	–1mA to 20mA	LT1460EIN8-2.5	DIP-8	130µA	0.9V	10	Output Capacitor Optional	$2.30
2.5	Series	–40°C to 85°C	0.125	20	–1mA to 20mA	LT1460EIS8-2.5	SO-8	130µA	0.9V	10	Output Capacitor Optional	$2.45
2.5	Series	–40°C to 85°C	0.20	20	±10mA	LT1019IN8-2.5	DIP-8	1.2mA	1.1V	6	Precision Series Reference, Runs on 5V Supplies	$4.75
2.5	Series	–40°C to 85°C	0.20	20	±10mA	LT1019IS8-2.5	SO-8	1.2mA	1.1V	12	Precision Series Reference, Runs on 5V Supplies	$4.85
2.5/7	Shunt	–40°C to 85°C	1.60	20	Shunt	LT1034BIZ-2.5	TO-92	30µA-20mA	Shunt	6	Micropower, Auxiliary 7V Reference	$4.75
2.5	Shunt	–40°C to 85°C	0.05	25	Shunt	LT1634BIS8-2.5	SO-8	7µA-50mA	Shunt	15	Upgrade for LT1004/1034 and LM185/385	$2.85
2.5	Series	–40°C to 85°C	0.10	25	–3mA to 5mA	LT1790BIS6-2.5	SOT-23	60µA	0.1V	32	Lowest Cost Precision Series Reference also SOT-23	$1.56
2.5	Series	–40°C to 85°C	0.25	25	–1mA to 20mA	LT1460GIZ-2.5	TO-92	130µA	0.9V	10	Lowest Temp Co. TO-92 Reference Available	$1.70
2.5	Shunt	–40°C to 85°C	0.20	35	Shunt	LT1009IZ	TO-92	400µA-10mA	Shunt	–	General Purpose Shunt Reference	$2.25
2.5	Shunt	–40°C to 85°C	0.40	35	Shunt	LT1009IS8	SO-8	400µA-10mA	Shunt	–	General Purpose Shunt Reference	$2.45
2.5/7	Shunt	–40°C to 85°C	1.60	40	Shunt	LT1034IS8-2.5	SO-8	30µA-20mA	Shunt	6	Micropower, Auxiliary 7V Reference	$3.30
2.5/7	Shunt	–40°C to 85°C	1.60	40	Shunt	LT1034IZ-2.5	TO-92	30µA-20mA	Shunt	6	Micropower, Auxiliary 7V Reference	$2.95
2.5	Shunt	–40°C to 85°C	0.40	50 Typ	Shunt	LT1431IN8	DIP-8	1mA-100mA	Shunt	–	Adjustable Shunt Regulator, 100mA Sink Capacity	$1.55
2.5	Shunt	–40°C to 85°C	0.40	50 Typ	Shunt	LT1431IS8	SO-8	1mA-100mA	Shunt	–	Adjustable Shunt Regulator, 100mA Sink Capacity	$2.20
2.5	Shunt	–40°C to 85°C	0.40	50 Typ	Shunt	LT1431IZ	TO-92	1mA-100mA	Shunt	–	Upgrade for TL431/LM431/µA431 etc.	$1.11
2.5	Shunt	–40°C to 85°C	0.80	20 Typ	Shunt	LT1004IS8-2.5	SO-8	20µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$3.10
2.5	Shunt	–40°C to 85°C	0.80	20 Typ	Shunt	LT1004IZ-2.5	TO-92	20µA-20mA	Shunt	–	General Purpose Micropower Shunt Reference	$2.75
2.5	Series	–40°C to 85°C/125°C	0.20	20/50	–1mA to 20mA	LT1460LHS8-2.5	SO-8	130µA	0.9V	10	Extended Temperature Range O/P Cap Optional	$2.65
2.5	Series	–40°C to 125°C	0.05	5	±5mA	LTC6652AHMS8-2.5	MSOP-8	560µA	0.3V	5	Precision, Low Noise, High Temperature Reference	$3.36
2.5	Series	–40°C to 125°C	0.1	10	±5mA	LTC6652BHMS8-2.5	MSOP-8	560µA	0.3V	5	Precision, Low Noise, High Temperature Reference	$1.65
2.5	Series	–40°C to 125°C	0.15	20	0mA to 10mA	LT1461DHS8-2.5	SO-8	50µA	0.3V	20	Highest Precision LDO Reference Available, Shutdown	$1.50
2.5	Series	–40°C to 125°C	0.20	50	–1mA to 20mA	LT1460MHS8-2.5	SO-8	130µA	0.9V	10	Extended Temperature Range O/P Cap Optional	$2.25
3	Series	0°C to 70°C	0.04	3	0mA to 50mA	LT1461ACS8-3	SO-8	50µA	0.3V	24	Highest Precision LDO Reference Available, Shutdown	$6.10
3	Series	0°C to 70°C	0.06	7	0mA to 50mA	LT1461BCS8-3	SO-8	50µA	0.3V	24	Tight Tolerance, Low TC and Low Dropout, Shutdown	$4.20

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current	Part Order Number	Package Type	I_Q Max or Shunt Current	Dropout Voltage	0.1 - 10Hz Typ Noise (μV_{P-P})	Comment	Price 1K Qty
3	Series	0°C to 70°C	0.05	10	–3mA to 5mA	LT1790ACS6-3	SOT-23	60µA	0.1V	50	High Precision SOT-23 Reference	$2.91
3	Series	0°C to 70°C	0.10	12	0mA to 50mA	LT1461CCS8-3	SO-8	50µA	0.3V	24	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.50
3	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT1460HCS3-3	SOT-23-3	180µA	0.9V	12	Precision SOT-23 Reference	$3.00
3	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT6660HCDC-3	DFN	180µA	0.9V	12	2×2 Pkg, 20mA Output, No Output Cap	$1.32
3	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT1460JCS3-3	SOT-23-3	180µA	0.9V	12	SOT-23 Reference Output Cap Optional	$2.45
3	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT6660JCDC-3	DFN	180µA	0.9V	12	2×2 Pkg, 20mA Output, No Output Cap	$1.16
3	Series	0°C to 70°C	0.10	25	–3mA to 5mA	LT1790BCS6-3	SOT-23-6	60µA	0.1V	50	Lowest Cost Precision Series Reference also SOT-23	$1.25
3	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1258CS8-3	SO-8	6.5µA	0.1V	40	Lowest Power LDO Reference Available	$2.10
3	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1798CS8-3	SO-8	6.5µA	0.1V	40	Industry Standard Pinout Version of LTC1258	$2.10
3	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT1460KCS3-3	SOT-23-3	180µA	0.9V	12	Low Cost SOT-23 Reference Output Cap Optional	$1.35
3	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT6660KCDC-3	DFN	180µA	0.9V	12	2×2 Pkg, 20mA Output, No Output Cap	$0.88
3	Series	0°C to 70°C	0.20	60	–2mA to 10mA	LTC1258CMS8-3	MSOP-8	6.5µA	0.1V	40	Lowest Power LDO Reference Available	$2.40
3	Series	–40°C to 85°C	0.04	3	0mA to 50mA	LT1461AIS8-3	SO-8	50µA	0.3V	24	Highest Precision LDO Reference Available, Shutdown	$6.50
3	Series	–40°C to 85°C	0.06	7	0mA to 50mA	LT1461BIS8-3	SO-8	50µA	0.3V	24	Tight Tolerance, Low TC and Low Dropout, Shutdown	$4.60
3	Series	–40°C to 85°C	0.05	10	–3mA to 5mA	LT1790AIS6-3	SOT-23-6	60µA	0.1V	50	High Precision SOT-23 Reference, Shutdown	$3.31
3	Series	–40°C to 85°C	0.10	12	0mA to 50mA	LT1461CIS8-3	SO-8	50µA	0.3V	24	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.75
3	Series	–40°C to 85°C	0.10	25	–3mA to 5mA	LT1790BIS6-3	SOT-23-6	60µA	0.1V	50	Lowest Cost Precision Series Reference also SOT-23	$1.56
3	Series	–40°C to 125°C	0.05	5	±5mA	LTC6652AHMS8-3	MSOP-8	560µA	0.3V	6	Precision, Low Noise, High Temperature Reference	$3.36
3	Series	–40°C to 125°C	0.10	10	±5mA	LTC6652BHMS8-3	MSOP-8	560µA	0.3V	6	Precision, Low Noise, High Temperature Reference	$1.65
3	Series	–40°C to 125°C	0.20	20	0mA to 10mA	LT1461DHS8-3	SO-8	50µA	0.3V	24	Highest Precision LDO Reference Available, Shutdown	$1.50
3.3	Series	0°C to 70°C	0.04	3	0mA to 50mA	LT1461ACS8-3.3	SO-8	50µA	0.3V	26	Highest Precision LDO Reference Available, Shutdown	$6.10
3.3	Series	0°C to 70°C	0.06	7	0mA to 50mA	LT1461BCS8-3.3	SO-8	50µA	0.3V	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	$4.20
3.3	Series	0°C to 70°C	0.05	10	–3mA to 5mA	LT1790ACS6-3.3	SOT-23-6	60µA	0.1V	50	High Precision SOT-23 Reference	$2.91
3.3	Series	0°C to 70°C	0.10	12	0mA to 50mA	LT1461CCS8-3.3	SO-8	50µA	0.3V	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.50
3.3	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT1460HCS3-3.3	SOT-23-3	180µA	0.9V	13.5	Only 3.3V SOT-23 Reference Available, O/P Cap Optional	$3.00
3.3	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT6660HCDC-3.3	DFN	180µA	0.9V	13.5	2×2 Pkg, 20mA Output, No Output Cap	$1.32
3.3	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT1460JCS3-3.3	SOT-23-3	180µA	0.9V	13.5	Only 3.3V SOT-23 Reference Available, O/P Cap Optional	$2.45
3.3	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT6660JCDC-3.3	DFN	180µA	0.9V	13.5	2×2 Pkg, 20mA Output, No Output Cap	$1.16
3.3	Series	0°C to 70°C	0.10	25	–3mA to 5mA	LT1790BCS6-3.3	SOT-23-6	60µA	0.1V	50	Lowest Cost Precision Series Reference also SOT-23	$1.25
3.3	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT1460KCDC-3.3	SOT-23-3	180µA	0.9V	13.5	Only 3.3V SOT-23 Reference Available. O/P Cap Optional	$1.35
3.3	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT6660KCS3-3.3	DFN	180µA	0.9V	13.5	2×2 Pkg, 20mA Output, No Output Cap	$0.88
3.3	Series	–40°C to 85°C	0.04	3	0mA to 50mA	LT1461AIS8-3.3	SO-8	50µA	0.3V	26	Highest Precision LDO Reference Available, Shutdown	$6.50
3.3	Series	–40°C to 85°C	0.06	7	0mA to 50mA	LT1461BIS8-3.3	SO-8	50µA	0.3V	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	$4.60
3.3	Series	–40°C to 85°C	0.05	10	–3mA to 5mA	LT1790AIS6-3.3	SOT-23-6	60µA	0.1V	50	High Precision SOT-23 Reference	$3.31
3.3	Series	–40°C to 85°C	0.10	12	0mA to 50mA	LT1461CIS8-3.3	SO-8	50µA	0.3V	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.75
3.3	Series	–40°C to 85°C	0.10	25	–3mA to 5mA	LT1790BIS6-3.3	SOT-23-6	60µA	0.1V	50	Lowest Cost Precision Series Reference also SOT-23	$1.56
3.3	Series	–40°C to 85°C	0.20	20	0mA to 10mA	LT1461DHS8-3.3	SO-8	50µA	0.3V	26	Highest Precision LDO Reference Available, Shutdown	$1.50
3.3	Series	–40°C to 125°C	0.05	5	±5mA	LTC6652AHMS8-3.3	MSOP-8	560µA	0.3V	6.6	Precision, Low Noise, High Temperature Reference	$3.36
3.3	Series	–40°C to 125°C	0.10	10	±5mA	LTC6652BHMS8-3.3	MSOP-8	560µA	0.3V	6.6	Precision, Low Noise, High Temperature Reference	$1.65
4.096	Series	0°C to 70°C	0.04	3	0mA to 50mA	LT1461ACS8-4	SO-8	50µA	0.3V	32	Highest Precision LDO Reference Available, Shutdown	$5.10
4.096	Series	0°C to 70°C	0.06	7	0mA to 50mA	LT1461BCS8-4	SO-8	50µA	0.3V	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	$3.50
4.096	Shunt	0°C to 70°C	0.05	10	Shunt	LT1634ACS8-4.096	SO-8	7µA-30mA	Shunt	30	Upgrade for LT1004/1034 and LM185/385	$4.50
4.096	Series	0°C to 70°C	0.05	10	–3mA to 5mA	LT1790ACS6-4.096	SOT-23-6	60µA	0.1V	60	High Precision SOT-23 Reference	$2.91
4.096	Series	0°C to 70°C	0.10	12	0mA to 50mA	LT1461CCS8-4	SO-8	50µA	0.3V	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.50
4.096	Shunt	0°C to 70°C	0.05	25	Shunt	LT1634BCS8-4.096	SO-8	7µA-30mA	Shunt	30	Upgrade for LT1004/1034 and LM185/385	$2.35
4.096	Series	0°C to 70°C	0.10	25	–3mA to 5mA	LT1790BCS6-4.096	SOT-23-6	60µA	0.1V	60	Lowest Cost Precision Series Reference also SOT-23	$1.25
4.096	Shunt	0°C to 70°C	0.20	25	Shunt	LT1634CCZ-4.096	TO-92	7µA-30mA	Shunt	30	Upgrade for LT1004/1034 and LM185/385	$2.10
4.096	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1258CS8-4.1	SO-8	6.5µA	0.1V	40	Lowest Power LDO Reference Available	$2.10
4.096	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1798CS8-4.1	SO-8	6.5µA	0.1V	40	Industry Standard Pinout Version of LTC1258	$2.10
4.096	Series	0°C to 70°C	0.18	60	–2mA to 10mA	LTC1258CMS8-4.1	MSOP-8	6.5µA	0.1V	40	Lowest Power LDO Reference Available	$2.40
4.096	Shunt	0°C to 70°C	0.075	50	Shunt	LT1389BCS8-4.096	SO-8	6µA-20mA	Shunt	80	Lowest Power Shunt Reference Available	$3.10
4.096	Series	–40°C to 85°C	0.04	3	0mA to 50mA	LT1461AIS8-4	SO-8	50µA	0.3V	32	Highest Precision LDO Reference Available, Shutdown	$5.40
4.096	Series	–40°C to 85°C	0.06	7	0mA to 50mA	LT1461BIS8-4	SO-8	50µA	0.3V	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	$3.85
4.096	Series	–40°C to 85°C	0.05	10	–3mA to 5mA	LT1790AIS6-4.096	SOT-23-6	60µA	0.1V	60	High Precision SOT-23 Reference	$3.31

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current	Part Order Number	Package Type	I_Q Max or Shunt Current	Dropout Voltage	0.1 - 10Hz Typ Noise (μV_{P-P})	Comment	Price 1K Qty
4.096	Shunt	–40°C to 85°C	0.05	10	Shunt	LT1634AIS8-4.096	SO-8	7µA-30mA	Shunt	30	Upgrade for LT1004/1034 and LM185/385	$4.95
4.096	Series	–40°C to 85°C	0.10	12	0mA to 50mA	LT1461CIS8-4	SO-8	50µA	0.3V	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.75
4.096	Shunt	–40°C to 85°C	0.05	25	Shunt	LT1634BIS8-4.096	SO-8	7µA-30mA	Shunt	30	Upgrade for LT1004/1034 and LM185/385	$2.85
4.096	Series	–40°C to 85°C	0.10	25	–3mA to 5mA	LT1790BIS6-4.096	SOT-23-6	60µA	0.1V	50	Lowest Cost Precision Series Reference also SOT-23	$1.56
4.096	Series	–40°C to 125°C	0.05	5	±5mA	LTC6652AHMS8-4.096	MSOP-8	560µA	0.3V	8.2	Precision, Low Noise, High Temperature Reference	$3.36
4.096	Series	–40°C to 125°C	0.10	10	±5mA	LTC6652BHMS8-4.096	MSOP-8	560µA	0.3V	8.2	Precision, Low Noise, High Temperature Reference	$1.65
4.096	Series	–40°C to 125°C	0.20	20	0mA to 10mA	LT1461DHS8-4	SO-8	50µA	0.3V	32	Highest Precision LDO Reference Available, Shutdown	$1.50
4.5	Series	0°C to 70°C	0.05	5	±10mA	LT1019ACN8-4.5	DIP-8	1.0mA	1.1V	12	Tight Tolerance and Low TC Bandgap Reference	$6.25
4.5	Series	0°C to 70°C	0.20	20	±10mA	LT1019CN8-4.5	DIP-8	1.2mA	1.1V	12	Precision Series Bandgap Reference	$3.70
4.5	Series	0°C to 70°C	0.20	20	±10mA	LT1019CS8-4.5	SO-8	1.2mA	1.1V	12	Precision Series Bandgap Reference	$4.65
4.5	Series	–40°C to 85°C	0.20	20	±10mA	LT1019IN8-4.5	DIP-8	1.2mA	1.1V	12	Precision Series Bandgap Reference	$4.75
5	Series	0°C to 70°C	0.05	2	–10mA to 15mA	LT1027BCN8-5	DIP-8	2.7mA	3.0V	3	Tight Tolerance and Low TC Buried Zener Reference	$4.85
5	Series	0°C to 70°C	0.04	3	0mA to 50mA	LT1461ACS8-5	SO-8	50µA	0.3V	40	Highest Precision LDO Reference Available, Shutdown	$5.10
5	Series	0°C to 70°C	0.05	3	–10mA to 15mA	LT1027CCN8-5	DIP-8	2.7mA	3.0V	3	Tight Tolerance and Low TC Buried Zener Reference	$4.40
5	Series	0°C to 70°C	0.05	3	–10mA to 15mA	LT1027CCS8-5	SO-8	2.7mA	3.0V	3	Tight Tolerance and Low TC Buried Zener Reference	$4.50
5	Series	0°C to 70°C	0.05	5	±10mA	LT1019ACN8-5	DIP-8	1.0mA	1.1V	12	Tight Tolerance and Low TC Bandgap Reference	$6.25
5	Series	0°C to 70°C	0.05	5	±10mA	LT1019ACS8-5	SO-8	1.0mA	1.1V	12	Tight Tolerance and Low TC Bandgap Reference	$5.40
5	Series	0°C to 70°C	0.05	5	–10mA to 15mA	LT1027DCN8-5	DIP-8	2.7mA	3.0V	3	Tight Tolerance and Low TC Buried Zener Reference	$3.90
5	Series	0°C to 70°C	0.05	5	–10mA to 15mA	LT1027DCS8-5	SO-8	2.7mA	3.0V	3	Tight Tolerance and Low TC Buried Zener Reference	$4.70
5	Series	0°C to 70°C	0.05	5	±10mA	LT1236ACN8-5	DIP-8	1.2mA	2.2V	3	Tight Tolerance and Low TC	$3.75
5	Series	0°C to 70°C	0.05	5	±10mA	LT1236ACS8-5	SO-8	1.2mA	2.2V	3	Tight Tolerance and Low TC	$3.75
5	Series	0°C to 70°C	1.00	5	±10mA	LT1021BCN8-5	DIP-8	1.2mA	2.2V	3	Buried Zener Series Reference	$5.25
5	Series	0°C to 70°C	1.00	5	±10mA	LT1021BCH-5	TO-5	1.2mA	2.2V	3	Very Low Drift, Buried Zener, Series Reference	$6.90
5	Series	0°C to 70°C	0.06	7	0mA to 50mA	LT1461BCS8-5	SO-8	50µA	0.3V	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	$3.50
5	Series	0°C to 70°C	0.10	7.5	–10mA to 15mA	LT1027ECN8-5	DIP-8	2.7mA	3.0V	3	Tight Tolerance and Low TC Buried Zener Reference	$3.60
5	Series	0°C to 70°C	0.10	7.5	–10mA to15mA	LT1027ECS8-5	SO-8	2.7mA	3.0V	3	Tight Tolerance and Low TC Buried Zener Reference	$2.25
5	Series	0°C to 70°C	0.05	10	–3mA to 5mA	LT1790ACS6-5	SOT-23-6	60µA	0.1V	80	High Precision SOT-23 Reference	$2.91
5	Shunt	0°C to 70°C	0.05	10	Shunt	LT1634ACS8-5	SO-8	7µA-30mA	Shunt	35	Upgrade for LT1004/1034 and LM185/385	$4.50
5	Series	0°C to 70°C	0.075	10	–1mA to 20mA	LT1460ACN8-5	DIP-8	175µA	0.9V	20	Output Capacitor Optional	$3.20
5	Series	0°C to 70°C	0.075	10	–1mA to 20mA	LT1460ACS8-5	SO-8	175µA	0.9V	20	Output Capacitor Optional	$3.35
5	Series	0°C to 70°C	0.10	10	±10mA	LT1236BCN8-5	DIP-8	1.2mA	2.2V	3	Tight Tolerance and Low TC	$2.15
5	Series	0°C to 70°C	0.10	10	±10mA	LT1236BCS8-5	SO-8	1.2mA	2.2V	3	Tight Tolerance and Low TC	$2.35
5	Series	0°C to 70°C	0.10	12	0mA to 50mA	LT1461CCS8-5	SO-8	50µA	0.3V	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.50
5	Series	0°C to 70°C	0.10	15	±10mA	LT1236CCN8-5	DIP-8	1.2mA	2.2V	3	Buried Zener Series Reference	$1.95
5	Series	0°C to 70°C	0.10	15	±10mA	LT1236CCS8-5	SO-8	1.2mA	2.2V	3	Buried Zener Series Reference	$1.95
5	Series	0°C to 70°C	0.10	15	–1mA to 20mA	LT1460CCMS8-5	MSOP-8	175µA	0.9V	20	Output Capacitor Optional	$3.35
5	Series	0°C to 70°C	0.05	20	±10mA	LT1021CCH-5	TO-5	1.2mA	2.2V	3	Buried Zener Series Reference	$5.15
5	Series	0°C to 70°C	0.05	20	±10mA	LT1021CCN8-5	DIP-8	1.2mA	2.2V	3	Buried Zener Series Reference	$3.50
5	Series	0°C to 70°C	0.10	20	–1mA to 20mA	LT1460DCN8-5	DIP-8	175µA	0.9V	20	Output Capacitor Optional	$2.00
5	Series	0°C to 70°C	0.10	20	–1mA to 20mA	LT1460DCS8-5	SO-8	175µA	0.9V	20	Output Capacitor Optional	$2.05
5	Series	0°C to 70°C	0.20	20	±10mA	LT1019CN8-5	DIP-8	1.2mA	1.1V	12	Precision Series Bandgap Reference	$3.70
5	Series	0°C to 70°C	0.20	20	±10mA	LT1019CS8-5	SO-8	1.2mA	1.1V	12	Precision Series Bandgap Reference	$4.65
5	Shunt	0°C to 70°C	0.2	20	Shunt	LT1029ACZ	TO-92	600µA-10mA	Shunt	–	General Purpose Reference	$2.50
5	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT1460HCS3-5	SOT-23-3	200µA	0.9V	20	Precision SOT-23 Reference	$3.00
5	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT6660HCDC-5	DFN	200µA	0.9V	20	2×2 Pkg, 20mA Output, No Output Cap	$1.32
5	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT1460JCS3-5	SOT-23-3	200µA	0.9V	20	SOT-23 Reference Output Cap Optional	$2.46
5	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT6660JCDC-5	DFN	200µA	0.9V	20	2×2 Pkg, 20mA Output, No Output Cap	$1.16
5	Series	0°C to 70°C	1.00	20	±10mA	LT1021DCN8-5	DIP-8	1.2mA	2.2V	3	Low Cost, Buried Zener, Series Reference	$2.65
5	Series	0°C to 70°C	1.00	20	±10mA	LT1021DCS8-5	SO-8	1.2mA	2.2V	3	Low Cost, Buried Zener, Series Reference	$3.20
5	Shunt	0°C to 70°C	0.05	25	Shunt	LT1634BCS8-5	SO-8	7µA-30mA	Shunt	35	Upgrade for LT1004/1034 and LM185/385	$2.35
5	Series	0°C to 70°C	0.10	25	–3mA to 5mA	LT1790BCS6-5	SOT-23-6	60µA	0.1V	80	Lowest Cost Precision Series Reference Also SOT-23	$1.25
5	Series	0°C to 70°C	0.15	25	–1mA to 20mA	LT1460FCMS8-5	MSOP-8	175µA	0.9V	20	Output Capacitor Optional	$2.20
5	Shunt	0°C to 70°C	0.20	25	Shunt	LT1634CCZ-5	TO-92	7µA-30mA	Shunt	35	Upgrade for LT1004/1034 and LM185/385	$2.10
5	Series	0°C to 70°C	0.25	25	–1mA to 20mA	LT1460GCZ-5	TO-92	175µA	0.9V	20	Precision TO-92 Series Reference Output Cap Optional	$1.60

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current	Part Order Number	Package Type	I_Q Max or Shunt Current	Dropout Voltage	0.1 - 10Hz Typ Noise (μV_{P-P})	Comment	Price 1K Qty
5	Shunt	0°C to 70°C	1.00	34	Shunt	LT1029CZ	TO-92	600µA-10mA	Shunt	–	General Purpose Reference	$1.55
5	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1258CS8-5	SO-8	6.5µA	0.1V	40	Lowest Power LDO Reference Available	$2.10
5	Series	0°C to 70°C	0.15	40	–2mA to 10mA	LTC1798CS8-5	SO-8	6.5µA	0.1V	40	Industry Standard Pinout Version of LTC1258	$2.10
5	Shunt	0°C to 70°C	0.075	50	Shunt	LT1389BCS8-5	S8	1µA		100	Ultralow Power Shunt Reference	$3.10
5	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT1460KCS3-5	SOT-23-3	200µA	0.9V	20	Low Cost SOT-23 Reference Output Cap Optional	$1.35
5	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT6660KCDC-5	DFN	200µA	0.9V	20	2×2 Pkg, 20mA Output, No Output Cap	$0.88
5	Series	0°C to 70°C	0.18	60	–2mA to 10mA	LTC1258CMS8-5	MSOP-8	6.5µA	0.1V	40	Lowest Power LDO Reference Available	$2.40
5	Series	–40°C to 85°C	0.04	3	0mA to 50mA	LT1461AIS8-5	SO-8	50µA	0.3V	40	Highest Precision LDO Reference Available, Shutdown	$5.40
5	Series	–40°C to 85°C	0.05	5	±10mA	LT1236AIS8-5	SO-8	1.2mA	2.2V	3	Tight Tolerance and Low TC	$4.95
5	Series	–40°C to 85°C	0.06	7	0mA to 50mA	LT1461BIS8-5	SO-8	50µA	0.3V	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	$3.85
5	Series	–40°C to 85°C	0.05	10	±10mA	LT1019AIS8-5	SO-8	1.0mA	1.1V	12	Tight Tolerance and Low TC Bandgap Reference	$5.65
5	Series	–40°C to 85°C	0.05	10	–3mA to 5mA	LT1790AIS6-5	SOT-23-6	60µA	0.1V	80	High Precision SOT-23 Reference	$3.31
5	Shunt	–40°C to 85°C	0.05	10	Shunt	LT1634AIS8-5	SO-8	7µA-30mA	Shunt	35	Upgrade for LT1004/1034 and LM185/385	$4.95
5	Series	–40°C to 85°C	0.10	10	±10mA	LT1236BIN8-5	DIP-8	1.2mA	2.2V	3	Tight Tolerance and Low TC	$2.45
5	Series	–40°C to 85°C	0.10	10	±10mA	LT1236BIS8-5	SO-8	1.2mA	2.2V	3	Tight Tolerance and Low TC	$2.45
5	Series	–40°C to 85°C	0.10	10	–1mA to 20mA	LT1460BIN8-5	DIP-8	175µA	0.9V	20	Output Capacitor Optional	$4.80
5	Series	–40°C to 85°C	0.10	10	–1mA to 20mA	LT1460BIS8-5	SO-8	175µA	0.9V	20	Output Capacitor Optional	$4.85
5	Series	–40°C to 85°C	0.10	12	0mA to 50mA	LT1461CIS8-5	SO-8	50µA	0.3V	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	$1.75
5	Series	–40°C to 85°C	0.10	15	±10mA	LT1236CIN8-5	DIP-8	1.2mA	2.2V	3	Buried Zener Series Reference	$2.30
5	Series	–40°C to 85°C	0.10	15	±10mA	LT1236CIS8-5	SO-8	1.2mA	2.2V	3	Buried Zener Series Reference	$2.30
5	Series	–40°C to 85°C	0.05	20	±10mA	LT1021CIN8-5	DIP-8	1.2mA	2.2V	3	Buried Zener Series Reference	$4.65
5	Series	–40°C to 85°C	0.125	20	–1mA to 20mA	LT1460EIN8-5	DIP-8	175µA	0.9V	20	Output Capacitor Optional	$2.25
5	Series	–40°C to 85°C	0.125	20	–1mA to 20mA	LT1460EIS8-5	SO-8	175µA	0.9V	20	Output Capacitor Optional	$2.35
5	Series	–40°C to 85°C	0.20	20	±10mA	LT1019IN8-5	DIP-8	1.2mA	1.1V	12	Precision Series Bandgap Reference	$4.75
5	Series	–40°C to 85°C	0.20	20	±10mA	LT1019IS8-5	SO-8	1.2mA	1.1V	12	Precision Series Bandgap Reference	$4.85
5	Series	–40°C to 85°C	1.00	20	±10mA	LT1021DIN8-5	DIP-8	1.2mA	2.2V	3	Buried Zener Series Reference	$3.50
5	Shunt	–40°C to 85°C	0.05	25	Shunt	LT1634BIS8-5	SO-8	7µA-30mA	Shunt	35	Upgrade for LT1004/1034 and LM185/385	$2.85
5	Series	–40°C to 85°C	0.10	25	–3mA to 5mA	LT1790BIS6-5	SOT-23-6	60µA	0.1V	80	Lowest Cost Precision Series Reference Also SOT-23	$1.56
5	Series	–40°C to 85°C	0.25	25	–1mA to 20mA	LT1460GIZ-5	TO-92	175µA	0.9V	20	Lowest Temp Co. TO-92 Reference Available	$1.70
5	Series	–40°C to 85°C/125°C	0.20	20/50	–1mA to 20mA	LT1460LHS8–5	SO-8	175µA	0.9V	20	Extended Temperature Range O/P Cap Optional	$2.55
5	Series	–40°C to 85°C	0.20	20	0mA to 10mA	LT1461DHS8-5	SO-8	50µA	0.3V	40	Highest Precision LDO Reference Available, Shutdown	$1.50
5	Series	–40°C to 125°C	0.05	5	±5mA	LTC6652AHMS8-5	MSOP-8	560µA	0.3V	10	Precision, Low Noise, High Temperature Reference	$3.36
5	Series	–40°C to 125°C	0.10	10	±5mA	LTC6652BHMS8-5	MSOP-8	560µA	0.3V	10	Precision, Low Noise, High Temperature Reference	$1.65
5	Series	–40°C to 125°C	0.20	50	–1mA to 20mA	LT1460MHS8-5	SO-8	175µA	0.9V	20	Extended Temperature Range O/P Cap Optional	$2.20
5	Series	–55°C to 125°C	1.00	5	±10mA	LT1021BMH-5	TO-5	1.2mA	2.2V	3	Very Low Drift, Buried Zener, Military Temp Range	$15.00
5	Series	–55°C to 125°C	0.05	20	±10mA	LT1021CMH-5	TO-5	1.2mA	2.2V	3	Low Drift, Buried Zener, Military Temp Range	$8.20
6.95	Shunt	0°C to 70°C	2.00	0.5	Shunt	LM399AH	TO-46	0.5mA-10mA	Shunt	–	Excellent Temperature Stability	$6.56
6.95	Shunt	0°C to 70°C	2.00	1	Shunt	LM399H	TO-46	0.5mA-10mA	Shunt	–	Excellent Temperature Stability	$4.65
7	Series	0°C to 70°C	0.71	5	±10mA	LT1021BCN8-7	DIP-8	1.2mA	1.5V	4	Buried Zener Series Reference	$5.25
7	Series	0°C to 70°C	0.71	20	±10mA	LT1021DCN8-7	DIP-8	1.2mA	1.5V	4	Low Cost, Buried Zener, Series Reference	$1.75
7	Series	0°C to 70°C	0.71	20	±10mA	LT1021DCS8-7	SO-8	1.2mA	1.5V	4	Low Cost, Buried Zener, Series Reference	$3.20
7.2	Super Zener	–55°C to 125°C	4.00	0.05	Shunt	LTZ1000CH	TO-5	N/A	N/A	2	Ultra Stable, Temperature Controllable Reference	$35.20
7.2	Super Zener	–55°C to 125°C	4.00	0.05	Shunt	LTZ1000ACH	TO-5	N/A	N/A	2	Ultra Stable, Temperature Controllable Reference	$44.80
10	Series	0°C to 70°C	0.05	5	±10mA	LT1019ACN8-10	DIP-8	1.0mA	1.1V	25	Tight Tolerance and Low TC Bandgap Reference	$6.25
10	Series	0°C to 70°C	0.05	5	±10mA	LT1236ACN8-10	DIP-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$2.95
10	Series	0°C to 70°C	0.05	5	±10mA	LT1236ACS8-10	SO-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$3.10
10	Series	0°C to 70°C	0.05	5	±10mA	LT1031BCH	TO-39	1.7mA	1.0V	6	Plug-In Replacement for LH0070 and AD581	$7.40
10	Series	0°C to 70°C	0.10	15	±10mA	LT1031CCH	TO-39	1.7mA	1.0V	6	Plug-In Replacement for LH0070 and AD581	$4.45
10	Series	0°C to 70°C	0.20	25	±10mA	LT1031DCH	TO-39	1.7mA	1.0V	6	Plug-In Replacement for LH0070 and AD581	$3.40
10	Series	0°C to 70°C	0.50	5	±10mA	LT1021BCN8-10	DIP-8	1.7mA	1.5V	6	Buried Zener Series Reference	$5.25
10	Series	0°C to 70°C	0.075	10	–1mA to 20mA	LT1460ACN8-10	DIP-8	270µA	0.9V	40	Output Capacitor Optional	$2.75
10	Series	0°C to 70°C	0.075	10	–1mA to 20mA	LT1460ACS8-10	SO-8	270µA	0.9V	40	Output Capacitor Optional	$3.15
10	Series	0°C to 70°C	0.10	10	±10mA	LT1236BCN8-10	DIP-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$2.35
10	Series	0°C to 70°C	0.10	10	±10mA	LT1236BCS8-10	SO-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$2.35

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

† Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current	Part Order Number	Package Type	I_Q Max or Shunt Current	Dropout Voltage	0.1 - 10Hz Typ Noise (μV_{P-P})	Comment	Price 1K Qty
10	Series	0°C to 70°C	0.10	15	±10mA	LT1236CCN8-10	DIP-8	1.2mA	1.5V	6	Buried Zener Series Reference	$2.20
10	Series	0°C to 70°C	0.10	15	±10mA	LT1236CCS8-10	SO-8	1.2mA	1.5V	6	Buried Zener Series Reference	$2.20
10	Series	0°C to 70°C	0.10	15	–1mA to 20mA	LT1460CCMS8-10	MSOP-8	270µA	0.9V	40	Output Capacitor Optional	$3.35
10	Series	0°C to 70°C	0.05	20	±10mA	LT1021CCN8-10	DIP-8	1.7mA	1.5V	6	Buried Zener Series Reference	$3.50
10	Series	0°C to 70°C	0.10	20	–1mA to 20mA	LT1460DCN8-10	DIP-8	270µA	0.9V	40	Output Capacitor Optional	$2.00
10	Series	0°C to 70°C	0.10	20	–1mA to 20mA	LT1460DCS8-10	SO-8	270µA	0.9V	40	Output Capacitor Optional	$2.05
10	Series	0°C to 70°C	0.20	20	±10mA	LT1019CN8-10	DIP-8	1.2mA	1.1V	25	Precision Series Bandgap Reference	$3.70
10	Series	0°C to 70°C	0.20	20	±10mA	LT1019CS8-10	SO-8	1.2mA	1.1V	25	Precision Series Bandgap Reference	$4.65
10	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT1460HCS3-10	SOT-23-3	270µA	0.9V	40	Only 10V SOT-23 Reference Available, O/P Cap Optional	$3.00
10	Series	0°C to 70°C	0.20	20	–1mA to 20mA	LT6660HCDC-10	DFN	270µA	0.9V	40	2×2 Pkg, 20mA Output, No Output Cap	$1.32
10	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT1460JCS3-10	SOT-23-3	270µA	0.9V	40	Only 10V SOT-23 Reference Available, O/P Cap Optional	$2.45
10	Series	0°C to 70°C	0.40	20	–1mA to 20mA	LT6660JCDC-10	DFN	270µA	0.9V	40	2×2 Pkg, 20mA Output, No Output Cap	$1.16
10	Series	0°C to 70°C	0.50	20	±10mA	LT1021DCN8-10	DIP-8	1.7mA	1.5V	6	Low Cost, Buried Zener, Series Reference	$2.65
10	Series	0°C to 70°C	0.50	20	±10mA	LT1021DCS8-10	SO-8	1.7mA	1.5V	6	Low Cost, Buried Zener, Series Reference	$3.20
10	Series	0°C to 70°C	0.15	25	–1mA to 20mA	LT1460FCMS8-10	MSOP-8	270µA	0.9V	40	Output Capacitor Optional	$2.20
10	Series	0°C to 70°C	0.25	25	–1mA to 20mA	LT1460GCZ-10	TO-92	270µA	0.9V	40	Only TO-92 10V Series Reference Output Cap Optional	$1.60
10	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT1460KCS3-10	SOT-23-3	270µA	0.9V	40	Only 10V SOT-23 Reference Available, O/P Cap Optional	$1.35
10	Series	0°C to 70°C	0.50	50	–1mA to 20mA	LT6660KCDC-10	DFN	270µA	0.9V	40	2×2 Pkg, 20mA Output, No Output Cap	$0.88
10	Series	–40°C to 85°C	0.05	5	±10mA	LT1236AIN8-10	DIP-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$3.55
10	Series	–40°C to 85°C	0.05	5	±10mA	LT1236AIS8-10	SO-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$3.70
10	Series	–40°C to 85°C	0.10	10	±10mA	LT1236BIN8-10	DIP-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$2.85
10	Series	–40°C to 85°C	0.10	10	±10mA	LT1236BIS8-10	SO-8	1.2mA	1.5V	6	Tight Tolerance and Low TC	$2.85
10	Series	–40°C to 85°C	0.10	10	–1mA to 20mA	LT1460BIN8-10	DIP-8	270µA	0.9V	40	Output Capacitor Optional	$4.60
10	Series	–40°C to 85°C	0.10	10	–1mA to 20mA	LT1460BIS8-10	SO-8	270µA	0.9V	40	Output Capacitor Optional	$4.85
10	Series	–40°C to 85°C	0.10	15	±10mA	LT1236CIN8-10	DIP-8	1.2mA	1.5V	6	Buried Zener Series Reference	$2.65
10	Series	–40°C to 85°C	0.10	15	±10mA	LT1236CIS8-10	SO-8	1.2mA	1.5V	6	Buried Zener Series Reference	$2.65
10	Series	–40°C to 85°C	0.05	20	±10mA	LT1021CIN8-10	DIP-8	1.7mA	1.5V	6	Buried Zener Series Reference	$4.65
10	Series	–40°C to 85°C	0.20	20	±10mA	LT1019IN8-10	DIP-8	1.2mA	1.1V	25	Precision Series Bandgap Reference	$4.75
10	Series	–40°C to 85°C	0.50	20	±10mA	LT1021DIN8-10	DIP-8	1.7mA	1.5V	6	Buried Zener Series Reference	$3.50
10	Series	–40°C to 85°C	0.125	20	–1mA to 20mA	LT1460EIN8-10	DIP-8	270µA	0.9V	40	Output Capacitor Optional	$2.25
10	Series	–40°C to 85°C	0.125	20	–1mA to 20mA	LT1460EIS8-10	SO-8	270µA	0.9V	40	Output Capacitor Optional	$2.35
10	Series	–40°C to 85°C	0.25	25	–1mA to 20mA	LT1460GIZ-10	TO-92	270µA	0.9V	40	Only TO-92 10V Series Reference, Output Cap Optional	$1.70
10	Series	–55°C to 125°C	0.05	11	±10mA	LH0070-2H	TO-39	5mA	1.4V	6	Low Drift Precision Reference for Series or Shunt Mode	$8.75
10	Series	–55°C to 125°C	0.05	5	±10mA	LT1031BMH	TO-39	1.7mA	1.0V	6	Plug-In Replacement for LH0070 and AD581	$11.50
10	Series	–55°C to 125°C	1.00	5	±10mA	LT1021BMH-10	TO-5	1.2mA	2.2V	3	Very Low Drift, Buried Zener, Military Temp Range	$15.00
10	Series	–55°C to 125°C	0.10	17	±10mA	LH0070-0H	TO-39	5mA	1.4V	6	Low Drift Precision Reference for Series or Shunt Mode	$5.35
10	Series	–55°C to 125°C	0.10	17	±10mA	LH0070-1H	TO-39	5mA	1.4V	6	Low Drift Precision Reference for Series or Shunt Mode	$6.85
10	Series	–55°C to 125°C	0.20	25	±10mA	LT1031DMH	TO-39	1.7mA	1.0V	6	Plug-In Replacement for LH0070 and AD581	$4.65
Adjust	Series	0°C to 70°C	0.5	30 Typ	±200µA	LT6650CS5	SOT-23-5	11µA	0.1V	20	400mV Reference with Internal Amplifier	$1.25
Adjust	Shunt	0°C to 70°C	0.40	30 Typ	Shunt	LT1431CN8	DIP-8	1mA-100mA	Shunt	–	Adjustable Shunt Regulator, Voltage from 2.5V to 36V	$1.20
Adjust	Shunt	0°C to 70°C	0.40	30 Typ	Shunt	LT1431CS8	SO-8	1mA-100mA	Shunt	–	Adjustable Shunt Regulator, Voltage from 2.5V to 36V	$1.75
Adjust	Shunt	0°C to 70°C	0.40	30 Typ	Shunt	LT1431CZ	TO-92	1mA-100mA	Shunt	–	AdjuStable Shunt Regulator, Voltage from 2.5V to 36V	$1.05
Adjust	Series	0°C to 70°C	5.5	30 Typ	±10mA	LT1635CN8	DIP-8	130µA	0.8V	–	200mV Reference with Internal Amplifier	$1.75
Adjust	Series	0°C to 70°C	5.5	30 Typ	±10mA	LT1635CS8	SO-8	130µA	0.8V	–	200mV Reference with Internal Amplifier	$1.95
Adjust	Series	–40°C to 85°C	5.5	30 Typ	±10mA	LT1635IN8	DIP-8	130µA	0.8V	–	200mV Reference with Internal Amplifier	$2.15
Adjust	Series	–40°C to 85°C	5.5	30 Typ	±10mA	LT1635IS8	SO-8	130µA	0.8V	–	200mV Reference with Internal Amplifier	$2.40
Adjust	Series	–40°C to 85°C	0.5	30 Typ	±200µA	LT6650IS5	SOT-23-5	11µA	0.1V	20	400mV Reference with Internal Amplifier	$1.69
Adjust	Series	–40°C to 85°C	0.5	30 Typ	±200µA	LT6650HS5	SOT-23-5	11µA	0.1V	20	400mV Reference with Internal Amplifier	$1.69

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	Temperature Range	Output Voltage Options	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current	Package	Supply Voltage	Features
LTC6652	–40° to 125°C	1.25V, 2V, 2.5V, 3V, 3.3V, 4V, 5V	±0.05	5	±5mA	MSOP-8	(V_{OUT}+300mV) to 13.2V	2ppm Noise, Shutdown Mode with <2µA
LT1460xH	–40° to 125°C	2.5V, 5V	±0.2	50	0 to 10mA	SO-8	(V_{OUT}+0.9V) to 30V	Reverse Battery Protected, No Output Capacitor Required
LT1461DH	–40° to 125°C	2.5V, 3V, 3.3V, 4.096V, 5V	±0.15	20	–1mA to 20mA	SO-8	(V_{OUT}+0.3V) to 30V	Micropower with High Output Current and Shutdown
LT6650H	–40° to 125°C	0.4V	±0.5	30 Typ	±200µA	SOT-23	(V_{OUT}+1V) to 30V	400mV Reference with Internal Amp for Adjustable Output Voltage
LT1021xM	–55° to 125°C	5V, 10V	±0.05	5	±10mA	TO-5	(V_{OUT}+1V) to 40V	Low Drift, 1ppm Noise, Shunt Mode or Series with ±10mA Output
LT1031	–55° to 125°C	10V	±0.05	5	±10mA	TO-39	11V to 40V	Low Noise, Shunt or Series Modes, ±10mA Output, AD581 Replacement
LTZ1000	–55° to 125°C	7.2V	±4	0.05	N/A (Shunt Device)	TO-5	N/A (Shunt Device)	Ultra Precision, Super Zener, 1.2µVp-p Noise, Low Hysteresis

VOLTAGE REFERENCES COMBINED WITH AN AMPLIFIER OR COMPARATOR(S)

Part Number	Amplifier or Comparator Description	† Voltage Reference Output (V)	Reference Accuracy Max 25°C (%)	Input Offset Max 25°C (mV)	Input Common Mode Range (V)	Comparator Prop Delay or Amp GBW (µs or kHz)	V_{SUPPLY} Range (V)	I_{SUPPLY} Max 25°C (µA)	Package	Price 1K Qty
LT1635	Micropower Rail-to-Rail Op Amp, LM10 Pinout	0.2	2.5%	1.3	V^- to (V^+ –1)	175kHz	1.2 to 14	200	DIP-8/SO-8	$1.75
LT6650	Micropower Rail-to-Rail Buffer Amplifier	0.4	2.0%	n/a	n/a	56kHz	1.4 to 20	11	SOT-23	$1.25
LT6700-1	Dual Low Voltage Inverting/Non-Inverting Comparator	0.4	2.0%	n/a	–0.3 to 18	18µs	1.4 to 18.5	10	SOT-23/2×3 DFN	$1.25
LT6700-2	Dual Low Voltage Comparator, Two Inverting Inputs	0.4	2.0%	n/a	–0.3 to 18	18µs	1.4 to 18.5	10	SOT-23/2×3 DFN	$1.25
LT6700-3	Dual Low Voltage Comparator, Two Non-Inverting Inputs	0.4	2.0%	n/a	–0.3 to 18	18µs	1.4 to 18.5	10	SOT-23/2×3 DFN	$1.25
LT6700HV-1	Dual Low Voltage Inverting/Non-Inverting Comparator	0.4	2.0%	n/a	–0.3 to 36	18µs	1.4 to 18.5	10	SOT-23	$1.49
LT6700HV-2	Dual Low Voltage Comparator, Two Inverting Inputs	0.4	2.0%	n/a	–0.3 to 36	18µs	1.4 to 18.5	10	SOT-23	$1.49
LT6700HV-3	Dual Low Voltage Comparator, Two Non-Inverting Inputs	0.4	2.0%	n/a	–0.3 to 36	18µs	1.4 to 18.5	10	SOT-23	$1.49
LT6700MP	Dual Comparators and Reference for –55°C to 125°C	0.4	2.0	n/a	–0.3 to 36	18µs	1.4 to 18.5	10	2×3 DFN-6	$4.12
LT6703-2	Low Voltage Comparator, Access to Non-Inverting Input	0.4	2.0%	n/a	–0.3 to 18	18µs	1.4 to 18.5	10	SOT-23/2×2 DFN-3	$0.75
LT6703-3	Low Voltage Comparator, Access to Inverting Input	0.4	2.0%	n/a	–0.3 to 18	18µs	1.4 to 18.5	10	SOT-23/2×2 DFN-3	$0.75
LT6703HV-2	Low Voltage Comparator, Access to Non-Inverting Input	0.4	2.0%	n/a	–0.3 to 36	18µs	1.4 to 18.5	10	SOT-23	$0.83
LT6703HV-3	Low Voltage Comparator, Access to Inverting Input	0.4	2.0%	n/a	–0.3 to 36	18µs	1.4 to 18.5	10	SOT-23	$0.83
LTC1440	Ultralow Power Comparator	1.182	1.5%	10	V^- to (V^+ –1.3)	8µs	2 to 11	4	DIP-8/MSOP-8/SO-8/ 3×3 DFN	$1.45
LTC1442	Dual Ultralow Power Comparator	1.182	1.0%	10	V^- to (V^+ –1.3)	8µs	2 to 11	5.7	DIP-8/SO-8	$2.20
LTC1443	Quad Ultralow Power Comparator	1.182	1.0%	10	V^- to (V^+ –1.3)	4µs	2 to 11	8.5	DIP-16/SO-16/5×4 DFN	$2.25
LTC1540	Nanopower Comparator	1.182	2.2%	12	V^- to (V^+ –1.3)	50µs	2 to 11	0.7	MSOP-8/SO-8/3×3 DFN	$1.60
LTC1842	Dual Ultralow Power Comparator, Open Drain Outputs	1.182	1.0%	10	V^- to (V^+ –1.3)	4µs	2.5 to 11	5.7	SO-8	$1.40
LTC1843	Dual Ultralow Power Inverting/Non-Inverting Comparator	1.182	1.0%	10	V^- to (V^+ –1.3)	4µs	2.5 to 11	5.7	SO-8	$1.40
LTC1541	Micropower Amplifier and Comparator	1.2	1.25%	2	V^- to (V^+ –1.3)	8µs	2.5 to 12.6	7.5	MSOP-8/SO-8/3×3 DFN	$1.50
LTC1998	Comparator, Battery Monitor with Adj. Thresholds	1.2	1.0%	n/a	n/a	150µs	1.5 to 5.5	3.5	SOT-23	$0.95
LTC1444	Quad Ultralow Power Comparator, Open Drain Outputs	1.221	1.0%	10	V^- to (V^+ –1.3)	4µs	2 to 11	8.5	DIP-16/SO-16/5×4 DFN	$2.25
LTC1445	Quad Ultralow Power Comparator	1.221	1.0%	10	V^- to (V^+ –1.3)	4µs	2 to 11	8.5	DIP-16/SO-16/5×4 DFN	$2.25

† Primary Sort Column

Part Number	Filter Order	Filters per Package	Filter Configuration	† Max f_{CENTER} or f_{CUTOFF}	Clock Tunable (Y/N)	f_O/f_{CLK}	Supply Current (mA)	Package	Important Features	Price 1K Qty
Lowpass Filters: Preconfigured for lowpass operation										
LTC1069-1	8	1	Elliptic	12kHz	Y	100:1	2.5	DIP-8/SO-8	Single 3.3V Supply, Wide Dynamic Range SO-8	$4.70
LTC1062	5	1	Butterworth	20kHz	Y	100:1	4.5	DIP-8/SOW-16	No DC Error, Internal or External Clock can be used	$3.20
LTC1164-5	8	1	Butterworth or Bessel	20kHz	Y	100, 50:1	2.5	DIP-14/SOW-16	Low Power, Pin Select Butterworth or Bessel	$10.80
LTC1069-6	8	1	Elliptic	20kHz	Y	50:1	1.2	DIP-8/SO-8	Single 3.3V Supply, Wide Dynamic Range SO-8	$4.80
LTC1164-7	8	1	Improved Bessel	20kHz	Y	100, 50:1	2.5	DIP-14/SOW-16	Constant Group Delay, No External Components	$10.80
LTC1164-XX	8	1	Semi-Custom	20kHz	Y	100, 50:1	4	DIP-14/SOW-16	Semi-Custom LTC1164	C.F.
LTC1164-6	8	1	Elliptic	30kHz	Y	100, 50:1	2.5	DIP-14/SOW-16	Low Power, Pin Select Elliptic or Linear Phase	$12.35
LTC1065	5	1	Bessel	50kHz	Y	100:1	2.5	DIP-8/SOW-16	DC Accurate Bessel, Internal or External Clock	$5.50
LTC1063	5	1	Butterworth	50kHz	Y	100:1	2.7	DIP-8/SOW-16	No DC Error, Self Clock with RC or External Clock	$5.50
LTC1064-1	8	1	Cauer	50kHz	Y	100, 50:1	10	DIP-14/SOW-16	Low Noise, No External Components	$12.35
LTC1068-XX	8	1	Semi-Custom	56kHz	Y	100:1	5	DIP-24/SSOP-28	Semi-Custom LTC1068	C.F.
LTC1569-6	10	1	Root Raised Cosine	64kHz	Y	128:1	3	SO-8	One Resistor Sets f_C, 3V to ±5V Operation	$5.50
LTC1064-3	8	1	Bessel	95kHz	Y	150, 75:1	10	DIP-14/SOW-16	Low Noise, No External Components	$9.60
LTC1064-4	8	1	Cauer	100kHz	Y	100, 50:1	11	DIP-14/SOW-16	Low Noise and ±0.03% THD or Better	$13.70
LTC1064-7	8	1	Improved Bessel	100kHz	Y	100, 50:1	11	DIP-14/SOW-16	Constant Group Delay, Steeper Roll-Off than Bessel	$10.80
LTC1066-1	8	1	Elliptic/Linear Phase	120kHz	Y	100, 50:1	14	SOW-18	14-Bit DC Accurate, Pin Select Cauer or Bessel	$17.10
LTC1064-2	8	1	Butterworth	140kHz	Y	100, 50:1	11	DIP-14/SOW-16	Low Noise, No External Components	$10.80
LTC1064-XX	8	1	Semi-Custom	140kHz	Y	100, 50:1	12	DIP-14/SOW-16	Semi-Custom LTC1064	C.F.
LTC1564	8	1	Elliptic	150kHz	N	n/a	17	SSOP-16	4-Bit Programmable Filter + 4-Bit PGA, Rail-to-Rail	$8.95
LTC1564-XX	8	1	Semi-Custom	150kHz	N	n/a	17	SSOP-16	Semi-Custom LTC1564	C.F.
LTC1264-7	8	1	Improved Bessel	200kHz	Y	50, 25:1	11	DIP-14/SOW-16	Constant Group Delay, No External Components	$13.70
LTC1264-XX	8	1	Semi-Custom	200kHz	Y	50, 25:1	14	DIP-14/SOW-16	Semi-Custom LTC1264	C.F.
LTC1069-7	8	1	Linear Phase	200kHz	Y	25:1	13	DIP-8/SO-8	Input Double Sampled, Passband Gain=–1V/V, SO-8	$4.80
LTC1563-3	4	1	Bessel	256kHz	N	n/a	10	SSOP-16	Active RC, Rail-to-Rail In/Out, One Resistor Sets f_C	$1.95
LTC1563-2	4	1	Butterworth	256kHz	N	n/a	10	SSOP-16	Active RC, Rail-to-Rail In/Out, One Resistor Sets f_C	$1.95
LTC1569-7	10	1	Root Raised Cosine	300kHz	Y	32:1	6	SO-8	One Resistor Sets fc, 3V to ±5V Operation	$5.95
LTC1565-31	7	1	Linear Phase	650kHz	N	n/a	23	SO-8	Active RC, Differential In/Out, Shutdown Mode	$3.65
LTC6602	5	2	Prog. Lowpass or Bandpass	900kHz	Y	100:1	130	4×4 QFN-24	Configurable for 5th Order LP, Matched Channels, Prog Gain	$6.95
LTC6603	9	2	Prog. LP	2.5MHz	Y	32:1	175	4×4 QFN-24	Matched Gain/Phase, SPI or Pin-Programmable Gain/BW	$7.50
LTC1560-1	5	1	Elliptic	1MHz	N	n/a	22	SO-8	Active RC, Pin Select fc = 1MHz or 500kHz, SO-8	$4.65
LTC1566-1	7	1	Linear Phase	2.3MHz	N	n/a	23	SO-8	Active RC, Differential In/Out, Low Noise	$5.95
LT6604-2.5	4	2	Chebyshev	2.5MHz	N	n/a	60	4×7 QFN-34	Matched Gain/Phase Differential Amps + 2.5MHz LP Filters	$6.50
LT6600-2.5	4	1	Chebyshev	2.5MHz	N	n/a	30	SO-8	Low Noise Fully Differential Amp + 2.5MHz Lowpass	$2.95
LT6604-5	4	2	Chebyshev	5MHz	N	n/a	62	4×7 QFN-34	Matched Gain/Phase Differential Amps + 5MHz LP Filters	$6.50
LT1568	4	2	Building Block	5MHz	N	n/a	35	SSOP-16	Two Matched Lowpass or One Lowpass/Bandpass	$4.25
LT6600-5	4	1	Chebyshev	5MHz	N	n/a	31	SO-8	Low Noise Fully Differential Amp + 5MHz Lowpass	$2.95
LTC6605-7	**2**	**2**	**Butterworth**	**7MHz**	**N**	**n/a**	**45**	**6×3 DFN-22**	**Matched Gain/Phase Differential Amps + 7MHz LP Filters**	**$6.95**
LT6604-10	4	2	Chebyshev	10MHz	N	n/a	78	4×7 QFN-34	Matched Gain/Phase Differential Amps + 10MHz LP Filters	$6.50
LT6600-10	4	1	Chebyshev	10MHz	N	n/a	39	SO-8	Low Noise Fully Differential Amp + 10MHz Lowpass	$2.95
LTC6605-10	**2**	**2**	**Butterworth**	**10MHz**	**N**	**n/a**	**45**	**6×3 DFN-22**	**Matched Gain/Phase Differential Amps + 10MHz LP Filters**	**$6.95**
LTC6605-14	**2**	**2**	**Butterworth**	**14MHz**	**N**	**n/a**	**45**	**6×3 DFN-22**	**Matched Gain/Phase Differential Amps + 14MHz LP Filters**	**$6.95**
LT6604-15	4	2	Chebyshev	15MHz	N	n/a	78	4×7 QFN-34	Matched Gain/Phase Differential Amps + 15MHz LP Filters	$6.50
LT6600-15	4	1	Chebyshev	15MHz	N	n/a	39	SO-8	Low Noise Fully Differential Amp + 15MHz Lowpass	$2.95
LT6600-20	4	1	Chebyshev	20MHz	N	n/a	46	SO-8	Low Noise Fully Differential Amp + 20MHz Lowpass	$2.95
LTC6601-1	2	1	Butterworth	5MHz-27MHz	N	n/a	43	4×4 QFN-20	Pin-Configurable Low Noise, High Performance Differential LPF/Amplifier	$3.95
LTC6601-2	**2**	**1**	**Butterworth**	**5MHz-27MHz**	**N**	**n/a**	**25**	**4×4 QFN-20**	**Pin-Configurable Low Power, Low Distortion Differential LPF/Amplifier**	**$3.95**

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	Filter Order	Filters per Package	Filter Configuration	† Max f_{CENTER} or f_{CUTOFF}	Clock Tunable (Y/N)	f_O/f_{CLK}	Supply Current (mA)	Package	Important Features	Price 1K Qty
Universal Filters: Can be configured for lowpass, bandpass, highpass and notch										
LTC1060	4	2	Building Block	20kHz	Y	100, 50:1	2.5	DIP-20/SOW-20	Improved MF10 Replacement	$3.70
LTC1067	4	2	Building Block	20kHz	Y	100:1	2.45	SSOP-16/SO-16	Rail-to-Rail In/Out, Low Noise, Single 3V Supply	$3.50
LTC1164	8	4	Building Block	20kHz	Y	100, 50:1	4	DIP-24/SO-24	Low Noise, Low Power, Wide Dynamic Range Filter	$8.10
LTC1164-XX	8	1	Semi-Custom	20kHz	Y	100, 50:1	4	DIP-14/SOW-16	Semi-Custom LTC1164	C.F.
LTC1068-200	8	4	Building Block	25kHz	Y	200:1	3.5	DIP-24/SSOP-28	Low Noise, High Accuracy, 4 Matched Filters	$6.35
LTC1061	6	3	Building Block	35kHz	Y	100, 50:1	4.5	DIP-20/SOW-20	6th Order, f_0 x Q Product up to 1MHz	$7.45
LTC1059	2	1	Building Block	40kHz	Y	100, 50:1	1.5	DIP-14/SO-14	Low Noise, MF5 Replacement	$3.10
LTC1067-50	4	2	Building Block	40kHz	Y	50:1	2.45	SSOP-16/SO-16	Rail-to-Rail In/Out, Low Noise, Single 3V Supply	$3.50
LTC1068	8	4	Building Block	50kHz	Y	100:1	3.5	DIP-24/SSOP-28	Low Noise, High Accuracy, 4 Matched Filters	$6.15
LTC1068-50	8	4	Building Block	50kHz	Y	50:1	3	DIP-24/SSOP-28	Low Noise, High Accuracy, 4 Matched Filters	$6.35
LTC1068-XX	8	1	Semi-Custom	56kHz	Y	100:1	5	DIP-24/SSOP-28	Semi-Custom LTC1068	C.F.
LTC1064	8	4	Building Block	140kHz	Y	100, 50:1	12	DIP-24/SOW-24	Low Noise, 4 Independent Filters in 1 Pkg	$8.10
LTC1064-XX	8	1	Semi-Custom	140kHz	Y	100, 50:1	12	DIP-14/SOW-16	Semi-Custom LTC1064	C.F.
LTC1562	8	1	Building Block	150kHz	N	n/a	18	DIP-16/SSOP-20	Active RC, Rail-to-Rail In/Out, 14–16-Bit Applications	$8.95
LTC1564-XX	8	1	Semi-Custom	150kHz	N	n/a	17	SSOP-16	Semi-Custom LTC1564	C.F.
LTC1068-25	8	4	Building Block	200kHz	Y	25:1	3.5	DIP-24/SSOP-28	Low Noise, High Accuracy, 4 Matched Filters	$6.35
LTC1264	8	4	Building Block	250kHz	Y	20:1	14	DIP-24/SOW-24	High Speed, Low Noise, Input Double Sampled	$9.45
LTC1264-XX	8	1	Semi-Custom	200kHz	Y	50, 25:1	14	DIP-14/SOW-16	Semi-Custom LTC1264	C.F.
LTC1562-2	8	1	Building Block	300kHz	N	n/a	21	SSOP-20	Active RC, Rail-to-Rail In/Out, 14–16-Bit Applications	$8.95
LTC6602	4 & 5	2	Prog. BP or LP	900kHz	Y	100:1	130	4×4 QFN-24	SPI Prog. 5th Order LP & 4th Order Highpass Per Channel	$6.95
LTC6603	9	2	Prog. LP	2.5MHz	Y	32:1	175	4×4 QFN-24	Matched Gain/Phase, SPI or Pin-Programmable Gain/BW	$7.50
LT1567	2	1	Building Block	5MHz	N	n/a	15	MSOP-8	Active RC, Differential Out, Low Noise, Rail-to-Rail	$1.85

† Primary Sort Column

HIGH SPEED COMPARATORS

Part Number	† Number Per Pkg	†† Prop Delay (ns)	Output Rise/Fall Time (ns)	Max Toggle Frequency (MHz)	Input Offset Max 25°C (mV)	Supply Voltage (V)	Supply Current (mA)	Input Voltage Range	Rail-to-Rail Output	Comp. Outputs	Output Latch	Package	Notes	Price 1K Qty
LT1719S8	1	4.2	2.5/2.2	70	2.5	2.7 to 10.5	4.2	(V^- –0.1V) to (V^+ –1.2V)	yes	no	no	SO-8	Separate Output Supply, Shutdown	$1.95
LT1719S6	1	4.5	2.5/2.2	70	2.5	2.7 to 6	4.2	(V^- –0.1V) to (V^+ –1.2V)	yes	no	no	SOT-23	Reduced Footprint from SO-8 Version	$1.40
LT1711	1	4.5	2/2	100	5	2.4 to ±6V	10	(V^- –0.1V) to (V^+ +0.1V)	yes	yes	yes	MSOP-8	Fastest Single with Latch	$2.15
LT1394	1	7	2/2	100	2.5	4.5 to ±5	8.5	V^- to (V^+ –1.5V)	no	yes	yes	MSOP-8/SO-8	LT1016 Upgrade	$2.55
LT1713	1	7	4/4	65	3	2.4 to ±6V	4	(V^- –0.1V) to (V^+ –0.1V)	yes	yes	yes	MSOP-8	No Phase Reversal When Inputs Exceed Supplies	$1.95
LT1016	1	9	7/7	25	3	4.5 to ±5	35	(V^- +1.25V) to (V^+ –1.5V)	no	yes	yes	SO-8/DIP-8	Stable with Slow Moving Signals	$2.90
LT1116	1	10	4/7	15	3	4.5 to ±5	38	V^- to (V^+ –2.5V)	no	yes	yes	SO-8/DIP-8	Single Supply Version of LT1016	$3.35
LT1671	1	60	30/30	10	2.5	4.5 to ±5	0.8	V^- to (V^+ –2.5V)	no	yes	yes	MSOP-8/SO-8	Low Power, Ground-Sensing	$1.70
LT1011	1	150	80/10	5	1.5	5 to ±15	4	(V^- +0.5V) to (V^+ –2V)	no	no	no	SO-8/DIP-8	±30V Differential Input Voltage, ±50mA Output	$1.30
LT1715	2	4	2/2	150	5.5	2.7 to 12	7.5	(V^- –0.1V) to (V^+ –1.2V)	yes	no	no	MSOP-10	Separate Input and Output Supplies, –40°C to 125°C	$3.35
LT1712	2	4.5	2/2	100	5	2.4 to ±6V	10	(V^- –0.1V) to (V^+ +0.1V)	yes	yes	yes	SSOP-16	Fastest Dual with Latch	$3.35
LT1720	2	4.5	2.5/2.2	70	3	2.7 to 6	4	(V^- –0.1V) to (V^+ –1.2V)	yes	no	no	MSOP-8/SO-8/ 3×3 DFN-8	Low Cost Dual, 3×3 DFN	$2.95
LT1714	2	7	4/4	65	3	2.4 to ±6V	4	(V^- –0.1V) to (V^+ +0.1V)	yes	yes	yes	SSOP-16	No Phase Reversal When Inputs Exceed Supplies	$3.15
LT1721	4	4.5	2.5/2.2	70	3	2.7 to 6	4	(V^- –0.1V) to (V^+ –1.2V)	yes	no	no	SO-16/SSOP-16	Low Cost Quad, 3×3 DFN	$4.50

† Primary Sort Column
†† Secondary Sort Column

MICROPOWER COMPARATORS

Part Number	Number Per Pkg	Input Offset Max 25°C (mV)	Input Common Mode Range (V)	Prop Delay Typ 25°C (µs)	Comparator Hysteresis (mV)	Internal Voltage Reference	Reference Output (V)	Reference Accuracy Max 25°C (%)	Supply Current Max 25°C (µA)	Supply Voltage Range (V)	Package	Price 1K Qty
LTC1440	Single	10	V^- to (V^+ –1.3V)	8	Adj	yes	1.182	1.5	3.7	2 to 11	MSOP-8/SO-8/DIP-8/3×3 DFN-8	$1.45
LTC1540	Single	12	V^- to (V^+ –1.3V)	50	Adj	yes	1.182	2.2	0.7	2 to 11	MSOP-8/SO-8/DIP-8/3×3 DFN-8	$1.60
LTC1541	Single	1	V^- to (V^+ –1.3V)	8	2.25	yes	1.2	1.25	7.5	2.5 to 12.6	MSOP-8/SO-8/DIP-8/3×3 DFN-8	$1.50
LTC1542	Single	1	V^- to (V^+ –1.3V)	8	2.25	no	n/a	n/a	7.5	2.5 to 12.6	MSOP-8/SO-8/DIP-8/3×3 DFN-8	$1.20
LT1716	Single	1.6	(V^- –5V) to (V^- +44V)	3	None	no	n/a	n/a	50	2.7 to 44	SOT-23	$1.00
LT6703	Single	see Data Sheet	(V^- –0.3V) to (V^- +18V)	18	6.5	yes	400mV	2	11	1.4 to 18	SOT23/2×2 DFN-3	$0.75
LT6703HV	Single	see Data Sheet	(V^- –0.3V) to (V^- +36V)	18	6.5	yes	400mV	2	11	1.4 to 18	SOT-23	$0.83
LTC1998	Single	see Data Sheet	see Data Sheet	150	Adj	yes	2.5 to 3.25	1	3.5	1.5 to 5.5	SOT-23	$0.95
LTC1441	Dual	10	V^- to (V^+ –1.3V)	8	None	no	n/a	n/a	5.7	2 to 11	SO-8/DIP-8	$1.80
LTC1442	Dual	10	V^- to (V^+ –1.3V)	8	Adj	yes	1.182	1	5.7	2 to 11	SO-8/DIP-8	$2.20
LTC1841	Dual	10	V^- to (V^+ –1.3V)	4	None	no	n/a	n/a	5.7	2 to 11	SO-8	$1.15
LTC1842	Dual	10	V^- to (V^+ –1.3V)	4	Adj	yes	1.182	1	5.7	2.5 to 11	SO-8	$1.40
LTC1843	Dual	10	V^- to (V^+ –1.3V)	4	Adj	yes	1.182	1	5.7	2.5 to 11	SO-8	$1.40
LTC1040	Dual	0.75	V^- to V^+	80	None	no	n/a	n/a	5.7	2.8 to 16	SOW-18/DIP-18	$2.10
LTC1041	Dual	n/a	GND to V^+	80	None	no	n/a	n/a	3000	2.8 to 16	SO-8/DIP-8	$1.80
LTC1042	Dual	n/a	GND to V^+	80	None	no	n/a	n/a	3000	2.8 to 16	DIP-8	$2.10
LT1017	Dual	1	V^- to (V^+ –0.9V)	22	None	no	n/a	n/a	80	1.2 to 40	SOW-16/SO-8/DIP-8	$2.00
LT1018	Dual	1	V^- to (V^+ –0.9V)	6	None	no	n/a	n/a	250	1.2 to 40	SOW-16/SO-8/DIP-8	$1.90
LT6700	Dual	see Data Sheet	(V^- –0.3V) to (V^- +18V)	18	6.5	yes	0.400	2	15	1.4 to 18	SOT-23/2×3 DFN-6	$1.25
LT6700HV	Dual	see Data Sheet	(V^- –0.3V) to (V^- +36V)	18	6.5	yes	400mV	2	15	1.4 to 18	SOT-23	$1.49
LT6700MP	Dual	see Data Sheet	–0.3V to 18V	18	6.5	yes	400mV	2	15	1.4 to 18	2×3 DFN-6	$4.12
LTC6702	Dual	3.5	(V^- –0.1V) to (V^- –1.2V)	0.5	4	no	n/a	n/a	30	1.7 to 5.5	SOT-23/2×2 DFN-8	$0.96
LTC1443	Quad	10	V^- to (V^+ –1.3V)	4	None	yes	1.182	1	8.5	2 to 11	DIP-16/SO-16/5×4 DFN-16	$2.25
LTC1444	Quad	10	V^- to (V^+ –1.3V)	4	Adj	yes	1.221	1	8.5	2 to 11	DIP-16/SO-16/5×4 DFN-16	$2.25
LTC1445	Quad	10	V^- to (V^+ –1.3V)	4	Adj	yes	1.221	1	8.5	2 to 11	DIP-16/SO-16/5×4 DFN-16	$2.25

APPLICATION SPECIFIC COMPARATORS

Part Number	Description	Typical Application	Supply Voltage (V)	Prop Delay Typ 25°C (µs)	Hysteresis Typ 25°C (mV)	Supply Current Max 25°C (µA)	Package	Price
LT6700	Dual Comparators with 400mV Reference	Flexible Window Comparator	1.4 to 18	18	6.5	10	SOT-23/2×3 DFN-6	$1.25
LT6700HV	36V Input/Output Dual Comparators and Reference	Flexible Window Comparator	1.4 to 18	18	6.5	10	SOT-23	$1.49
LT6700MP	Dual Comparators and Reference for –55°C to 125°C	Window Comparator for Rugged Environments	1.4 to 18	18	6.5	10	2×3 DFN-6	$4.12
LT6703	Single Comparator and Internal Reference	Voltage Level Detector	1.4 to 18	18	6.5	10	SOT-23/2×2 DFN-3	$0.75
LT6703HV	36V Input/Output Comparator and Reference	Voltage Level Detector	1.4 to 18	18	6.5	10	SOT-23	$0.83
LTC1041	BANG-BANG Controller with 1nA OFF Current	Temp or Motor Speed Control, Battery Charger	2.8 to 18	80	None	3000	DIP-8/SO-8	$1.80
LTC1042	Micropower, High Accuracy Window Comparator	Fault Detect, GO/NO-GO Test, Supply Monitor	2.8 to 18	80	None	3000	DIP-8	$2.10
LTC1440	Ultralow Power Comparator with Reference	Voltage Level Detector, Battery Monitoring	2 to 11	8	Adj	4	MSOP-8/SO-8/DIP-8/3×3 DFN-8	$1.45
LTC1441	Dual Ultralow Power Comparators with Reference	Battery-Powered System Monitoring	2 to 11	8	None	5.7	DIP-8/SO-8	$1.80
LTC1442	Dual Ultralow Power Comparators with Reference	Battery-Powered System Monitoring	2 to 11	8	Adj	5.7	DIP-8/SO-8	$2.20
LTC1443	Quad Ultralow Power Comparators with Reference	Battery-Powered System Monitoring	2 to 11	4	None	8.5	DIP-16/SO-16/5×4 DFN-16	$2.25
LTC1444	Quad Ultralow Power Comparators with Reference	Glitch-Free Level Detector for Dual Supplies	2 to 11	4	Adj	8.5	DIP-16/SO-16/5×4 DFN-16	$2.25
LTC1445	Quad Ultralow Power Comparators with Reference	Battery-Powered System Monitoring	2 to 11	4	Adj	8.5	DIP-16/SO-16/5×4 DFN-16	$2.25
LTC1540	Nanopower Comparator with Reference	Battery-Powered System Monitoring	2 to 11	50	Adj	0.7	MSOP-8/SO-8/3×3 DFN-8	$1.60
LTC1541	Combined Amplifier, Comparator and Reference	Battery-Powered System Monitoring	2.5 to 12.6	8	2.25	7.5	MSOP-8/SO-8/3×3 DFN-8	$1.50
LTC1542	Micropower Amplifier and Comparator	Battery-Powered System Monitoring	2.5 to 12.6	8	2.25	5	MSOP-8/SO-8/3×3 DFN-8	$1.20
LTC1842	Dual Ultralow Power Comparators with Reference	Battery-Powered System Monitoring	2.5 to 11	4	Adj	5.7	SO-8	$1.40
LTC1843	Dual Ultralow Power Comparators with Reference	Battery-Powered System Monitoring	2.5 to 11	4	Adj	5.7	SO-8	$1.40
LTC1921	Dual Independent Monitors for –48V Supply and Fuse	–48V Telecom and Network Backplane Monitor	–10 to –80	200	None	160	MSOP-8/SO-8	$2.50
LTC1998	High Accuracy Comparator with 1.2V Reference	Battery-Powered System Monitoring	1.5 to 5.5	150	Adj	3.5	SOT-23	$0.95

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

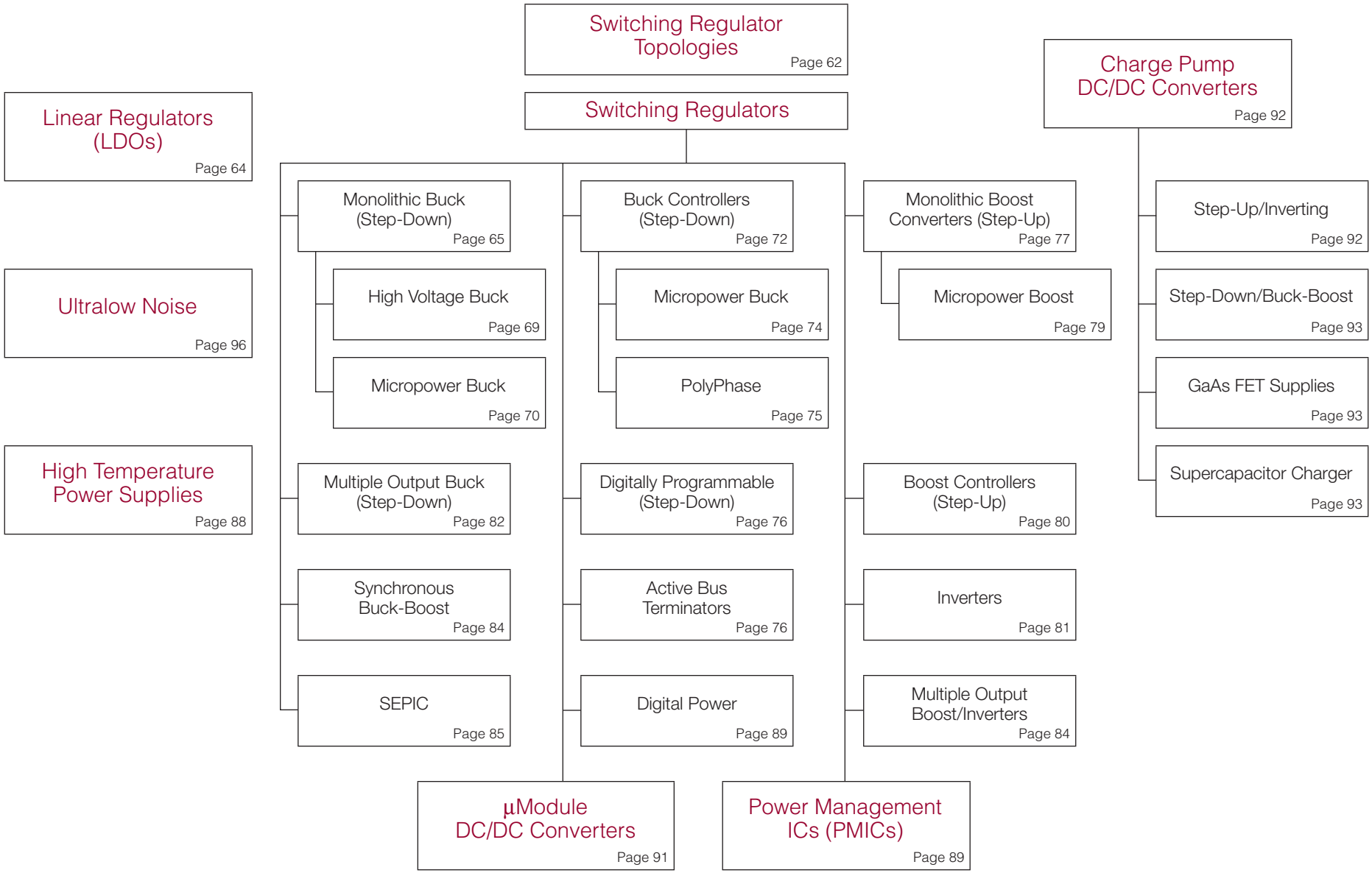
Part Number	† Program Method	Frequency Range	Frequency Accuracy Max 25°C (%)	Frequency Temperature Drift (ppm/°C)	50% Duty Cycle Variation	Timing Jitter (%)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current Max 25°C	Package	Comments	Price
LTC6906	Resistor	10kHz to 1MHz	0.5	50	±5%	0.03	2.25	6	15µA@100kHz	SOT-23	Micropower, DIV by 1,3,10	$1.25
LTC6907	Resistor	40kHz to 4MHz	0.5	50	±7%	0.12	3	6	36µA@400kHz	SOT-23	Micropower, DIV by 1,3,10	$1.25
LTC6909	**Resistor**	**12.5kHz to 6.67MHz**	**2.5**	**40**	**±5%**	**0.20**	**2.7**	**6**	**1.8mA @ 3.3MHz**	**MSOP-16**	**Up to 8 Outputs with Configurable Phase Separation, Spread Spectrum**	**$2.46**
LTC6908-1	Resistor	50kHz to 10MHz	1.5	40	±1%	0.10	2.7	6	1.6mA@5MHz	SOT-23/2×3 DFN-6	2 Outputs: 0°/90°, Spread Spectrum	$1.65
LTC6908-2	Resistor	50kHz to 10MHz	1.5	40	±1%	0.10	2.7	6	1.6mA@5MHz	SOT-23/2×3 DFN-6	2 Outputs: 0°/180°, Spread Spectrum	$1.65
LTC6900	Resistor	1kHz to 20MHz	1.5	40	±1%	0.10	2.7	6	860µA@10MHz	SOT-23	Low Power, 50µs Start-Up	$1.55
LTC6902	Resistor	5kHz to 20MHz	1.5	40	±1%	0.10	2.7	6	1.8mA@10MHz	MSOP-10	4 Phase Outputs, Spread Spectrum	$2.20
LTC1799	Resistor	1kHz to 30MHz	1.5	40	±1%	0.06	2.7	6	1.1mA@3MHz	SOT-23	Wide Frequency Range	$1.55
LTC6905	Resistor	17MHz to 170MHz	1.4	20	±2.5%	0.50	2.7	6	5mA@21MHz	SOT-23	Available In Military Temperature Grade	$1.65
LTC6903	Serial – SPI	1kHz to 68MHz	1.1	10	±1%	0.40	2.7	6	3.1mA@1MHz	MSOP-8	SPI Interface with Enable	$1.95
LTC6904	Serial – I^2C	1kHz to 68MHz	1.1	10	±1%	0.40	2.7	6	3.1mA@1MHz	MSOP-8	I^2C Interface with Enable	$2.10
LTC6930-4.19	Fixed	32.768kHz to 4.194MHz	0.09	1	±2%	0.15	1.7	6	420µA@4.19MHz	2×3 DFN-8/MSOP-8	8 Divider Settings, 100µs Start-Up Time	$1.31
LTC6930-5.00	Fixed	39.063kHz to 5.000MHz	0.09	1	±2%	0.15	1.7	6	570µA@5MHz	2×3 DFN-8/MSOP-8	8 Divider Settings, 100µs Start-Up Time	$1.31
LTC6930-7.37	Fixed	57.600kHz to 7.373MHz	0.09	1	±2%	0.15	1.7	6	660µA@7.37MHz	2×3 DFN-8/MSOP-8	8 Divider Settings, 100µs Start-Up Time	$1.31
LTC6930-8.00	Fixed	62.500kHz to 8.000MHz	0.09	1	±2%	0.15	1.7	6	740µA@8MHz	2×3 DFN-8/MSOP-8	8 Divider Settings, 100µs Start-Up Time	$1.31
LTC6930-8.192	Fixed	64.000kHz to 8.192MHz	0.09	1	±2%	0.15	1.7	6	760µA@8.19MHz	2×3 DFN-8/MSOP-8	8 Divider Settings, 100µs Start-Up Time	$1.31
LTC6905-80	Fixed	80MHz, 40MHz, 20MHz	1.0	20	±2.5%	0.80	2.7	6	11mA@80MHz	SOT-23	Divide by 1,2,4, with Enable	$1.15
LTC6905-96	Fixed	96MHz, 48MHz, 24MHz	1.0	20	±2.5%	0.80	2.7	6	12mA@96MHz	SOT-23	Divide by 1,2,4, with Enable	$1.15
LTC6905-100	Fixed	100MHz, 50MHz, 25MHz	1.0	20	±2.5%	0.80	2.7	6	12mA@100MHz	SOT-23	Divide by 1,2,4, with Enable	$1.15
LTC6905-133	Fixed	133MHz, 66.6MHz, 33.3MHz	1.0	20	±2.5%	0.80	2.7	6	15mA@133MHz	SOT-23	Divide by 1,2,4, with Enable	$1.15

† Primary Sort Column

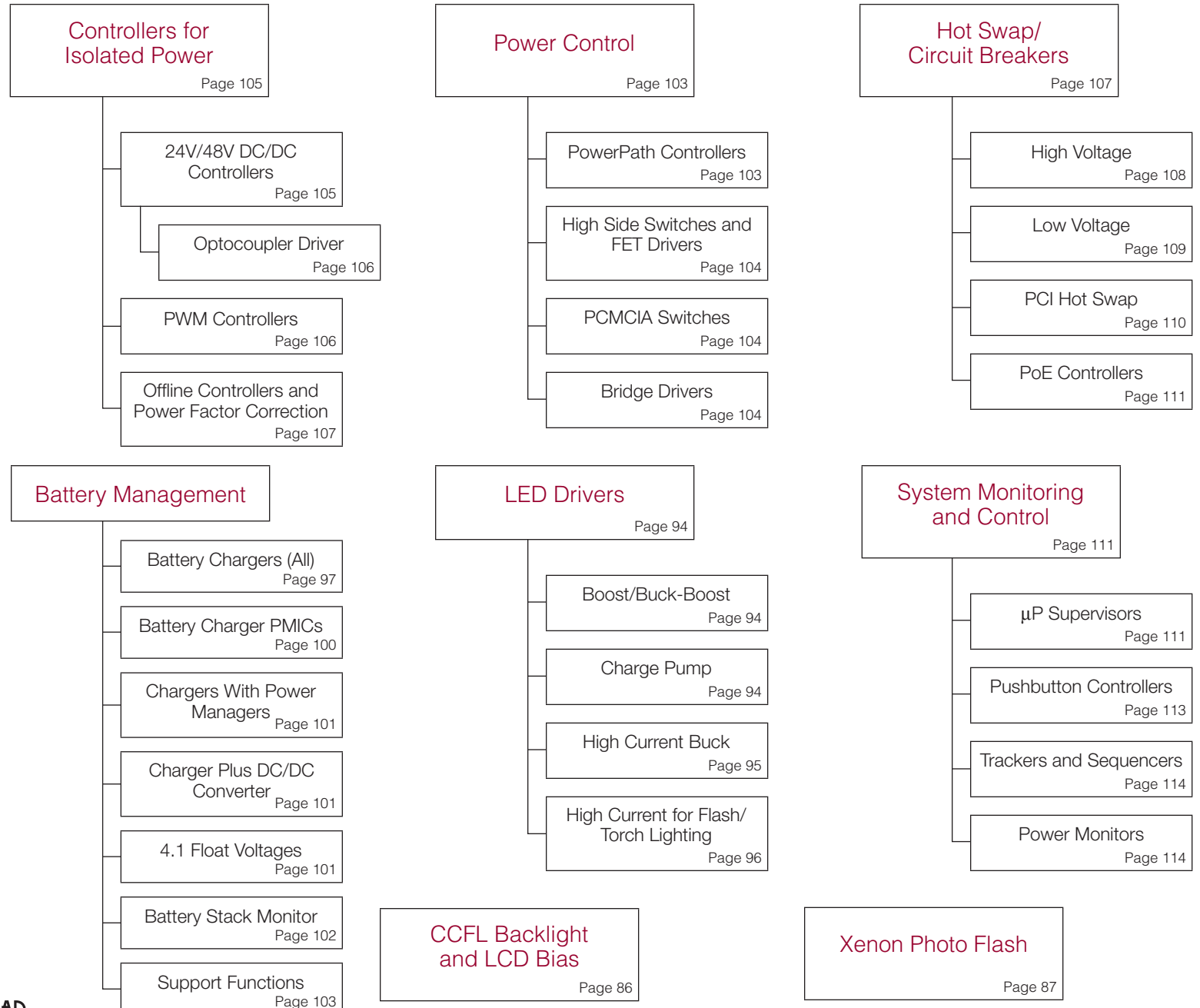
RMS-TO-DC CONVERSION

Part Number	Linearity Error Typ/Max (%)	Conversion Gain Error Typ/Max (%)	1% Error Bandwidth (kHz)	3dB Error Bandwidth (MHz)	Supply Voltage Min (V)	Max (V)	I_{SUPPLY} Max (µA)	Max Input Swing (V)	Min RMS Input (mV)	Rail-to-Rail I/O	Temperature Range	Package	Price
LTC1966C	0.02/0.15	0.1/0.3	6	0.8	2.7	±5	170	1	5	yes	0°C to 70°C	MSOP-8	$2.95
LTC1966I	0.02/0.15	0.1/0.3	6	0.8	2.7	±5	170	1	5	yes	–40°C to 85°C	MSOP-8	$4.95
LTC1967C	0.02/0.15	0.1/0.3	200	4	4.5	5.5	390	1	5	yes	0°C to 70°C	MSOP-8	$3.40
LTC1967I	0.02/0.15	0.1/0.3	200	4	4.5	5.5	390	1	5	yes	–40°C to 85°C	MSOP-8	$5.69
LTC1968C	0.02/0.15	0.1/0.3	500	15	4.5	5.5	2300	1	5	yes	0°C to 70°C	MSOP-8	$3.95
LTC1968I	0.02/0.15	0.1/0.3	500	15	4.5	5.5	2300	1	5	yes	–40°C to 85°C	MSOP-8	$6.60

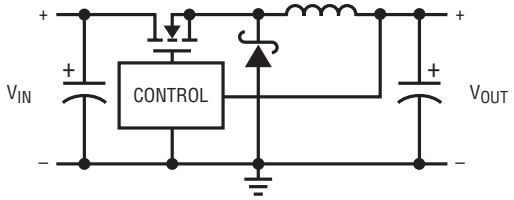
Power Management



Power Management

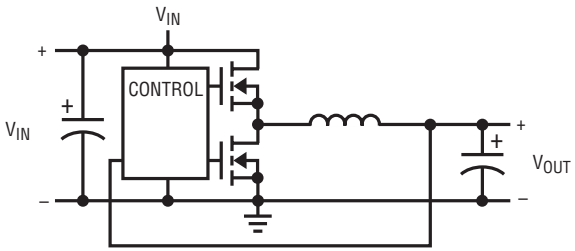


Buck Regulator



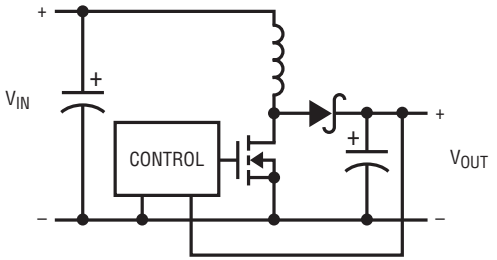
- $V_{OUT} < V_{IN}$
- $I_{OUT} \approx 0.8 \bullet I_{SW}$
- Switching Frequency 100kHz to 4MHz
- Monolithic and Controllers

Synchronous Buck Regulator



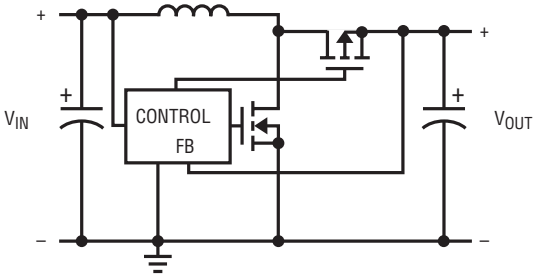
- Higher Efficiency than Standard Buck
- Switching Frequency up to 4MHz
- Combined for PolyPhase Operation from 60A to 240A

Boost Regulator



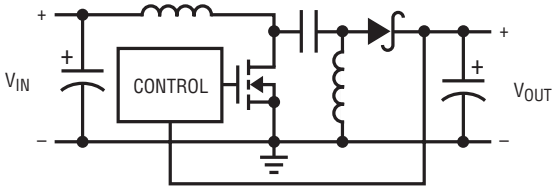
- $V_{OUT} > V_{IN}$
- $I_{OUT} \approx 0.64 \bullet \frac{V_{IN}}{V_{OUT}} \bullet I_{SW}$
- Monolithic and Controllers
- Switching Frequency up to 3MHz

Synchronous Boost Regulator



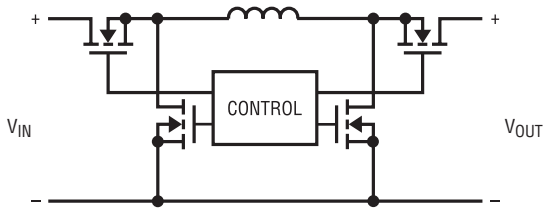
- Better Efficiency than Standard Boost
- Best for Low $\frac{V_{OUT}}{V_{IN}}$ Ratios

SEPIC



- V_{IN} Ranges from Above V_{OUT} to Below V_{OUT}
- Monolithic and Controllers
- Small Inductors

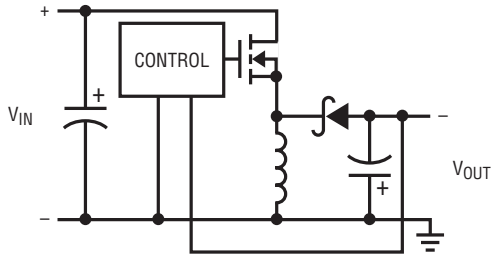
Synchronous Buck-Boost



- Best Efficiency vs SEPIC
- Battery Disconnect
- True Buck and Boost Topologies

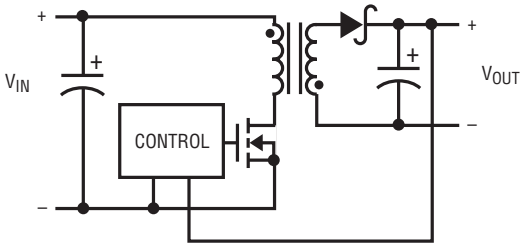
MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Buck/Boost Inverter



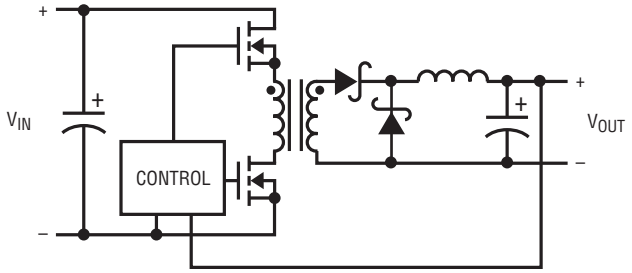
- $V_{IN} < |V_{OUT}|$
- Monolithic Solutions

Flyback Regulator



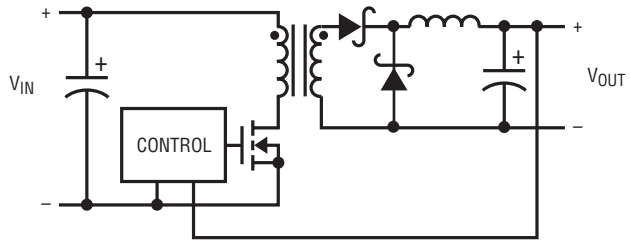
- Isolated and Nonisolated
- High $\frac{V_{OUT}}{V_{IN}}$ Ratios
- 80% plus Efficiency
- Simple

Dual Transistor forward Regulator



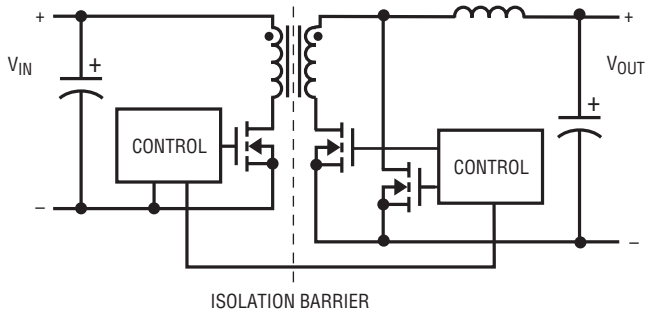
- Higher Output Power than Flyback
- Smaller Transformer than Flyback
- Higher Efficiency than Flyback
- Second Inductor Required

Single Transistor forward Regulator



- Simpler than Two Transistor forward
- Better Efficiency than Dual Transistor Topology

Single Transistor forward w/Synchronous Secondary



- Replaces Secondary Side Diodes
- High Efficiency vs Standard forward

LINEAR REGULATORS (LDOs)

Part Number	† Output Current (A)	V_{IN} Min (V)	V_{IN} Max (V)	Reference Voltage (V)	Dropout Voltage ($V_{@I_{OUT}}$)	I_Q (Supply) (µA)	Shutdown Current (µA)	Output Voltage (V)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3014	0.02	3.0	80	1.22	0.35	7	<1	Adj (1.22 to 60)	TSOT-5, 3×3 DFN-8	E, I	Shutdown/Enable, Stable with 0.47µF Ceramic Capacitors	$1.50
LT3014HV	0.02	3.0	100	1.22	0.35	7	<1	Adj (1.22 to 60)	TSOT-5, 3×3 DFN-8	E, I	Shutdown/Enable, Stable with 0.47µF Ceramic Capacitors, 100V/2ms Transient Survivability	$1.70
LT3014B	0.02	3.0	80	1.22	0.35	7	n/a	Adj (1.22 to 60)	TSOT-5, 3×3 DFN-8	E, I	Stable with 0.47µF Ceramic Capacitors	$1.50
LT3014BHV	0.02	3.0	100	1.22	0.35	7	n/a	Adj (1.22 to 60)	TSOT-5, 3×3 DFN-8	E, I	Stable with 0.47µF Ceramic Capacitors, 100V/2ms Transient Survivability	$1.70
LT3009	0.02	1.6	20	0.60	0.28	3	<1	Adj (0.6 to 19.5), 1.2, 1.5, 1.8, 2.5, 3.3, 5	SC70-8, 2×2 DFN-6	E, I	Ultralow 3µA I_Q, 1µF Ceramic Caps, ±2% Accuracy, Low θ_{JA} Pkgs	$0.95
LT3008	0.02	2.0	45	0.60	0.28	3	<1	Adj (0.6 to 44.5)	SC70-8, 2×2 DFN-6	E, I	High-Voltage Up to 45V Input, Ultralow 3µA I_Q, 1µF Ceramic Caps, ±2% Accuracy, Low θ_{JA} Pkgs	$1.20
LT3010	0.05	1.5	80	1.275	0.30	30	<1	Adj, 5	MSOP-8	E, H	Low Noise <100μV_{RMS}, Stable with 1µF Ceramic Capacitors	$1.55
LT3011	0.05	3.0	80	1.24	0.30	45	<1	Adj	MSOPE-12, 3×3 DFN	E, H	Power Good Flag with Programmable Delay	$1.75
LT3020	0.1	0.9	10	0.20	0.15	120	<1	Adj, 1.2, 1.5, 1.8	MSOP-8, DFN-8	E, I	Low Noise <250μV_{RMS}, $V_{OUT(MIN)}$ = 0.2V	$1.50
LT1761	0.1	1.8	20	1.22	0.30	20	<1	Adj, 1.2, 1.5, 1.8, 2, 2.5, 2.8, 3, 3.3, 5	ThinSOT	E, M	Low Noise <20μV_{RMS}, Stable with 1µF Ceramic Capacitors	$0.95
LT3060	**0.1**	**1.7**	**45**	**0.60**	**0.30**	**40**	**<1**	**Adj (0.6 to 36)**	**2×2 DFN-8, TSOT-8**	**E, I**	**Low Noise <30μV_{RMS}, Stable with 2.2µF Ceramic Capacitors**	**C.F.**
LT3023	Dual 0.1	1.8	20	1.22	0.30	40	<1	Adj (1.22 to 20)	MSOP-10E, DFN-10	E, I	Dual 100mA Output, Low Noise <20μV_{RMS}	$1.60
LT3027	Dual 0.1	1.8	20	1.22	0.30	40	<1	Adj (1.22 to 20)	MSOP-10E, DFN-10	I	Dual Inputs, Dual 100mA Output, Low Noise <20μV_{RMS}	$1.65
LT1020	0.125	2.9	36	2.50	0.40	40	40	Adjustable	SO-16, DIP-14	I	Comparator and Reference, Class B Outputs	$3.70
LT1120/A	0.125	2.9	36	2.50	0.40	40	10	Adjustable	SO-8, DIP-8	I	Comparator and Reference, Logic Shutdown, Ref Sources/Sinks 2mA (A Grade = 4mA)	$2.35
LT1121/A/HV	0.15	4.2	30/36	3.75	0.42	30	16	Adj, 3.3, 5	SOT-223, SO-8, TO-92	I	Stable with 0.33µF Ceramic Capacitor, Reverse Battery Protection; "A" Version SOIC Has Pins 6&7 GND for Improved Thermal Resistance	$1.30
LT1762	0.15	1.8	20	1.22	0.30	25	<1	Adj, 2.5, 3, 3.3, 5	MSOP-8	E	Low Noise <20μV_{RMS}, Stable with 2.2µF Ceramic Capacitors	$1.10
LTC1844	0.15	1.6	6.5	1.25	0.11	40	<1	Adj, 1.5, 1.8, 2.5, 2.8, 3.3	TSOT-5	E	Low Noise <30μV_{RMS}, Stable with 1µF Ceramic Capacitors	$1.21
LT3012H	0.2	4.0	80	1.24	0.40	40	<1	Adj (1.24 to 60)	TSSOP-16	H	140°C Operation, Shutdown, Low Noise <100μV_{RMS}, Stable with 3.3µF Ceramic Capacitors	$2.73
LT3013H	0.2	4.0	80	1.24	0.40	65	<1	Adj (1.24 to 60)	TSSOP-16	H, MP	140°C Operation, Shutdown, PowerGood, <100μV_{RMS} Noise, Stable with 3.3µF Ceramic Capacitors	$2.95
LT3012/B	0.25	4.0	80	1.24	0.40	40	<1	Adj (1.24 to 60)	TSSOP-16, 4×3 DFN-12	E, H	Low Noise <100μV_{RMS}, Stable with 3.3µF Ceramic Capacitors	$2.05
LT3013/B	0.25	4.0	80	1.24	0.40	65	<1	Adj (1.24 to 60)	TSSOP-16, 4×3 DFN-12	E	Shutdown, PWRGD, <100μV_{RMS} Noise, Stable with 3.3µF Ceramic Capacitors, "B" Version Does Not Have Shutdown	$2.25
LTC3025	0.3	0.9	5.5	0.40	0.05	54	<1	Adj (0.4 to 3.6)	2×2 DFN-6	E	45mV Dropout Voltage, Minimum V_{IN} of 0.9V, 2 × 2 DFN	$1.24
LT1521	0.3	4.3	20	3.75	0.50	12	6	Adj, 3, 3.3, 5	SOT-223, SO-8, MSOP-8	I	Stable with 1.5µF Ceramic Output Capacitor, Reverse Battery Protection	$2.10
LT1579	0.3	2.7	20	1.50	0.40	50	7	Adj, 3, 3.3, 5	SO-8, SO-16, SSOP-16	I	Maintains Output Regulation with Dual Inputs, Reverse Battery Protection	$3.40
LT1962	0.3	1.8	20	1.22	0.27	30	<1	Adj, 1.5, 1.8, 2.5, 3, 3.3, 5	MSOP-8	E	Low Noise <20μV_{RMS}, Stable with 3.3µF Ceramic Capacitors	$1.65
LTC3035	0.3	1.7	5.5	0.40	0.045	100	<1	Adj (0.4 to 3.6)	3×2 DFN-8	E	VLDO with Charge Pump Bias Generator	$1.35
LT1763	0.5	1.8	20	1.22	0.30	30	<1	Adj, 1.5, 1.8, 2.5, 3, 3.3, 5	SO-8, 4×3 DFN-12	I, MP	Low Noise <20μV_{RMS}, Stable with 3.3µF Ceramic Capacitors	$1.95
LT3021	0.5	0.9	10	0.20	0.16	120	<3	Adjustable, 1.2, 1.5, 1.8	5×5 DFN-16, SO-8	E, I	Stable with 3.3µF Ceramic Capacitors, High Accuracy	$2.25
LTC3025-x	0.5	0.9	5.5	0.40	0.08	54	<1	Adj (0.4 to 3.6), 1.2, 1.5, 1.8	2×2 DFN-6	E, I	75mV Dropout @ 500mA. "-1" Has Adj Output; "-2", "-3" and "-4" Have Fixed 1.2V, 1.5V and 1.8V Outputs Respectively	$1.38
LT3085	0.5	1.2	36	Current 10µA	0.275	1mA	n/a	Adj (0 to 35.7)	2×3 DFN-6, MSOP-8	E, I, MP	Current Reference; Single Resistor Sets V_{OUT}; Parallel for Higher Current or to Spread PCB Heat, Low Noise <33μV_{RMS}	$1.73
LT3024	Dual 0.5/0.1	1.8	20	1.22	0.30	60	<1	Adj (1.22 to 20)	TSSOP-16E, 4×3 DFN-12	E, I	Dual 500mA/100mA Output, Low Noise <20μV_{RMS}	$2.45
LT3028	Dual 0.5/0.1	1.8	20	1.22	0.30	60	<1	Adj (1.22 to 20)	TSSOP-16E, 5×3 DFN-16	I	Dual Inputs, Dual 500mA/100mA Output, Low Noise <20μV_{RMS}	$2.55
LT3029	**Dual 0.5**	**1.9**	**20**	**1.218**	**0.30**	**100**	**<1**	**Adj (1.22 to 19.5)**	**MSOP-16E, 3×4 DFN-16**	**E, I**	**Dual Inputs, Low Noise <20μV_{RMS}, Stable with 3.3µF Ceramic Output Capacitors**	**C.F.**
LT1129	0.7	4.2	30	3.75	0.40	50	16	Adj, 3.3, 5	DD, SOT-223, SO-8, TO-220, TSSOP-20,	E, I, MP	Shutdown, Stable with 3.3µF Ceramic Output Capacitor	$2.15
LT1117	0.8	2.5	15	1.25	1.20	5mA	n/a	Adj, 2.85, 3.3, 5	DD, SOT-223	I	Guaranteed Dropout Voltages at Multiple Current Levels	$1.90
LT1118	0.8	3.0	15	1.225	1.00	600	<1	2.5, 2.85, 5	SO-8, SOT-223		Regulates While Sourcing or Sinking Current, for Active Termination of SCSI Lines	$2.35
LT3080/-1	1.1	1.2	36	Current 10µA	0.30	1mA	n/a	Adj (0 to 35.7)	3×3 DFN-8, MSOP-8, SOT-223. TO-220	E	Current Reference; Single Resistor Sets V_{OUT}; Parallel for Higher Current or to Spread Pcb Heat, Low Noise <40μV_{RMS}; "–1" Has Integrated Ballast Resistor	$1.81
LT1965	1.1	1.8	20	1.20	0.29	500	n/a	Adj (1.2 to 19.5), 1.5, 1.8, 2.5, 3.3	3×3 DFN-8, MSOP-8, DD-Pak, TO-220	E, I	Low Noise <40μV_{RMS}, Stable with 10µF Ceramic Capacitors	$1.88
LTC3026	1.5	1.14	3.5/5.5	0.40	0.10	400	<1	Adj (0.4 to 2.6)	3×3 DFN-10, MSOP-10	E	Ideal for Low V_{IN}, Good PSRR at High Frequency, External Boost Rail Allows 5.5V Max V_{IN}. PowerGood Output PIN	$2.20
LT317A	1.5	3.8	40	1.25	2.50	1.5mA	n/a	Adjustable	TO-220		Guaranteed Voltage Tolerance and Line/Load Regulation	$2.00

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Output Current (A)	V_{IN} Min (V)	V_{IN} Max (V)	Reference Voltage (V)	Dropout Voltage ($V_{@I_{OUT}}$)	I_Q (Supply) (µA)	Shutdown Current (µA)	Output Voltage (V)	Package	Extended Temp Range	Comments	Price 1K Qty
LT1086	1.5	2.6	25	1.25	1.30	5mA	n/a	Adj, 2.85, 3.3, 3.6, 5, 12	DD, TO-220	I	Guaranteed Dropout Voltages at Multiple Current Levels	$2.00
LT1963/A	1.5	2.1	20	1.21	0.34	1mA	<1	Adj,1.5, 1.8, 2.5, 3.3	TSSOP-16E,DD,TO-220, SOT-223, SO-8	E, I, MP	Low Noise <40µV_{RMS}, "A" Version Stable with 10µF Ceramic Capacitors	$2.15
LT1085	3	2.6	30	1.25	1.30	5mA	n/a	Adj, 3.3, 3.6, 5, 12	DD, TO-220, TO-3P	I	Guaranteed Dropout Voltages at Multiple Current Levels	$3.55
LT1587	3	2.7	7	1.50	1.20	8mA	n/a	Adj, 1.5, 3.3, 3.45, 3.6	DD, TO-220		Fast Transient Response, Guaranteed Dropout Voltages at Multiple Current Levels	$3.20
LT1528	3	3.9	15	3.30	0.60	400	125	Adj	DD, TO-220		Fast Transient Response, Optimized for Microprocessor Applications	$3.50
LT1529	3	3.9	15	3.30	0.60	50	16	Adj, 3.3, 5	DD, TO-220	I	Reverse Battery Protection, Stable with 22µF Ceramic Output Capacitor	$3.50
LT1764/A	3	2.7	20	1.21	0.34	1mA	<1	Adj, 1.5, 1.8, 2.5, 3.3	DD, TO-220, TSSOP-16E	E, MP	Low Noise <40µV_{RMS}, "A" Version Stable with 10µF Ceramic Capacitors	$3.30
LT1585	4.6	2.4	7	1.25	1.10	8mA	n/a	Adj, 1.5, 3.3, 3.38, 3.45, 3.6	DD, TO-220		Fast Transient Response Guaranteed Dropout Voltages at Multiple Current Levels	$3.85
LT1585A	5	2.5	7	1.25	1.20	8mA	n/a	Adj, 1.5, 3.3	DD, TO-220		Fast Transient Response Guaranteed Dropout Voltages at Multiple Current Levels. Adjustable Output, "A-1.5" and "A-3" Versions Have Fixed 1.5V and 3.3V Outputs, Respectively	$4.10
LT1084	5	2.6	30	1.25	1.30	5mA	n/a	Adj, 3.3, 3.6, 5, 12	DD, TO-220, TO-3P	I	Guaranteed Dropout Voltages at Multiple Current Levels	$4.25
LT1584	7	2.5	7	1.25	1.25	8mA	n/a	Adj, 3.3, 3.38, 3.45, 3.6	DD, TO-220	I	Fast Transient Response, Guaranteed Dropout Voltages at Multiple Current Levels	$5.80
LT1580	7	1.8	6	1.25	0.54	10mA	n/a	Adj, 2.5	DD, TO-220	I	Fast Transient Response, 540mV Dropout	$5.30
LT1083	7.5	2.6	30	1.25	1.30	5mA	n/a	Adj, 3.3, 3.6, 5, 12	DD, TO-220, TO-3P	I	Guaranteed Dropout Voltages at Multiple Current Levels	$7.35
LT1581	10	1.7	6	1.25	0.43	10mA	n/a	Adj, 2.5	TO-220		Fast Transient Response, Remote Sense	$7.00
Negative Regulators												
LT1964	0.2	–1.9	–20	–1.21	0.34	30	3	Adj, –5	TSOT-5, 3×3 DFN-8	E, I	Low Noise <30µV_{RMS}, Stable with 1µF Ceramic Capacitors	$1.35
LT1175	0.5	–4.3	–20	–3.8	0.50	45	10	Adj, –5	DD, SOT-223, SO-8, DIP-8	I	Guaranteed Voltage Tolerance and Line/Load Regulation	$2.50
LT1185	3	–4.3	–35	–2.40	0.80	2.5mA	<1	Adjustable	DD, TO-220	I	Accurate Programmable Current Limit, Remote Sense	$3.55
Discrete Pass Element Drivers and Regulators - Very Low Dropout												
LT1123	3	n/a	30	5.00	–(1)	700	n/a	5	SOT-223, TO-92		Fast Transient Response, Requires External Transistor	$1.25
LT1573	5	2.8	10	1.265	–(1)	1.7mA	200	Adj, 2.5, 2.8, 3.3	SO-8	I	Fast Transient Response, Requires External Transistor	$1.75
LT3150	10(1)	1.4	10	1.23	0.13	12mA	25	Adjustable	SSOP-16		Drives Low Cost N-Channel MOSFETs, Ultra-Fast Transient Response	$3.70
LT1575	–(1)	n/a	22	1.210	–(1)	12mA	n/a	Adj, 1.5, 2.8, 3.3, 5	DP-8, SO-8		Drives Low Cost N-Channel MOSFETs, Ultra-Fast Transient Response	$2.40
LT1577	–(1)	n/a	22	1.210	–(1)	12mA	n/a	Adj, 2.8, 3.3	SO-16		Drives Low Cost N-Channel MOSFETs, Ultra-Fast Transient Response	$4.45

† Primary Sort Column

Notes:
1. Depends on selection of external MOSFET

MONOLITHIC BUCK (STEP-DOWN)

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max(1) (V)	† Output Current(2) (A)	Max Switch Current (A)	Synchronous	Ext SYNC(3)	Switching Frequency(4)	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3642	**4.5**	**45/60**	**0.8**	**V_{IN}**	**0.05**	**0.02 or 0.1**	**yes**	**–**	**50kHz to 580kHz**	**12**	**<6**	**3×3 DFN-8, MSOP-8E**	**E, I**	**60V Transient Protection, Synchronous, Burst Mode Operation, UV/OV Lockout. Selectable Switch Current Limit; 3.3V, 5V or Adj V_{OUT}**	**$2.65**
LT1934-1	3.2	34	1.25	0.85V_{IN}	0.07	0.09	–	–	COT	12	<1	ThinSOT, 2×3 DFN-6	E, I	Same Electricals as LT1934 But with 90mA Switch Current	$2.26
LTC3631	**4.5**	**45/60**	**0.8**	**V_{IN}**	**0.10**	**0.04 or 0.2**	**yes**	**–**	**50kHz to 580kHz**	**12**	**<6**	**3×3 DFN-8, MSOP-8E**	**E, I**	**60V Transient Protection, Synchronous, Burst Mode Operation, UV/OV Lockout. Selectable Switch Current Limit; 3.3V, 5V or Adj V_{OUT}**	**C.F.**
LT3470/A	4.0	40	1.25	16	0.2/0.25	0.25/0.32	–	–	Hysteretic	26/35	<1	ThinSOT, 3×2 DFN-8	H	Integrated Schottky and Catch Diodes. "A" Version Has Improved Start-Up and Dropout	$2.36
LTC1779	2.5	9.8	0.8	V_{IN}	0.25	0.5	–	–	550kHz	135	8	ThinSOT	E	100% Duty Cycle, 94% Efficiency	$1.90
LTC3549	1.6	5.5	0.61	V_{IN}	0.25	0.3	yes	–	2.25MHz	50	<1	2×3 DFN-6	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$1.35
LT1934	3.2	34	1.25	0.85V_{IN}	0.3	0.35	–	–	COT	12	<1	ThinSOT-23, 2×3 DFN-6	E, I	350mA Switch Current	$2.26
LTC3410/B	2.5	5.5	0.8	V_{IN}	0.3	0.38	yes	–	2.25MHz	26	<1	SC70	E	96% Efficiency in 2×2 Footprint	$1.50
LTC1474/ LTC1475	3.0	18	1.23	V_{IN}	0.32	0.4	–	–	COT	10	<6	MSOP-8	I	Pushbutton On/Off Control for LTC1475,100% Duty Cycle, 92% Efficiency	$3.75
LTC3544/B	2.3	5.5	0.8	V_{IN}	0.3/0.2×2 / 0.1	0.4	yes	–	2.25MHz	80	<1	3×3 QFN-16	I	Quad Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "B" Has Burst Mode Disabled	$2.95
LTC3547/B	2.5	5.5	0.6		0.3×2	0.4	yes	–	2.25MHz	40	<1	3×2 DFN-8	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency	$1.95

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

MONOLITHIC BUCK (STEP-DOWN)

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Max Switch Current (A)	Synchronous	Ext SYNC[3]	Switching Frequency[4]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3405/A	2.7	5.5	0.8	V_{IN}	0.3	0.4	yes	–	1.5MHz	20	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, 95% Efficiency,"A" Version Uses All Ceramic Caps	$1.61
LT3437	3.3	80	1.25	$0.9V_{IN}$	0.4	0.5	–	yes	200kHz	75	<1	3×3 DFN-10, TSSOP-16E	H	80V, Burst Mode Device	$2.25
LTC3522	2.4	5.5	0.6	5.5	0.4/0.2	0.65	yes	–	100kHz to 2MHz	55	<1	3×3 QFN-10	E	Dual Output Synchronous 400mA Buck-Boost and 200mA Buck	$2.50
LTC3670	2.5	5.5	0.8	V_{IN}	0.4/ 0.15×2	0.6	yes	–	2.25MHz	38	<1	3×2 DFN-12	E	400mA Sync Buck Plus Dual 150mA LDOs. Adjustable Outputs	$1.95
LTC3672	2.5	5.5	0.8	V_{IN}	0.4/ 0.15×2	0.6	yes	–	2.25MHz	38	<1	2×2 DFN-8	E	400mA Sync Buck Plus Dual 150mA LDOs. Fixed Outputs	$1.95
LTC1174/HV	4.0	13.5/18.5	1.25	$0.7V_{IN}$	0.43	0.54	–	–	COT	130	<1	DIP-8, SO-8	I	Fixed Outputs of 3.3V, 5V Available	$3.50
LTC1574/HV	4.0	18.5	1.25	$0.7V_{IN}$	0.43	0.54	–	–	COT	130	<2	SO-16		Fixed Outputs of 3.3V, 5V Available	$3.50
LT1777	7.0	48	1.24	$0.85V_{IN}$	0.44	0.55	–	yes	100kHz	620	12	SO-16	I	Programmable di/dt Limit for Low Noise Applications	$2.65
LT1676	7.4	60	1.24	$0.85V_{IN}$	0.44	0.55	–	yes	100kHz	3.2mA	2.5	SO-8	I	Wide Input Range	$2.60
LT1776	7.4	40	1.24	$0.85V_{IN}$	0.44	0.55	–	yes	200kHz	3.2mA	30	DIP-8, SO-8	I	Transients to 60V	$2.45
LT1612/B	2.0	5.5	0.62	$0.8V_{IN}$	0.48	0.6	yes	–	800kHz	160	<1	SO-8, MSOP-8	E	Synchronous, "B" Version is Burst Mode Defeat	$1.95
LTC1433/ LTC1434	3.5	13.5	1.3	V_{IN}	0.48	0.6	–	LTC1434	240kHz	470	15	TSSOP-16, TSSOP20	I	100% Duty Cycle, 93% Efficiency, Low Noise, LTC1434 Has PLL	$3.70
LT3502/A	3.4	40	0.8	$0.9V_{IN}$	0.5	0.7	–	–	1.1/2.2MHz	1.5mA	<1	2×2 DFN-8, MSOP-10	I	40V, 500mA from a 2mm×2mm DFN. "A" Switches at 2.2MHz	$1.95
LTC3542	2.5	5.5	0.6	V_{IN}	0.5	0.7	yes	yes	2.25MHz	26	<1	2×2 DFN-6, ThinSOT	E	Synchronous, 100% Duty Cycle, 95% Efficiency. "-1" Has Fixed 2.8V Output	$1.60
LTC3541	2.7	5.5	0.8	V_{IN}	0.5/0.3	0.8	yes	–	2.25MHz	85µA	2.5	3×3 DFN-10	E	500mA Sync Buck Plus 300mA VLDO™, 100% Duty Cycle. Fixed and Adjustable Output Versions, Part Options for Order of DC/DC Power Up	$1.89
LTC3563	2.5	5.5	1.28	1.87	0.5	0.65	yes	–	2.25MHz	26	<1	2×2 DFN-6	E	Pin-Selectable Outputs, Synchronous, 100% Duty Cycle, 95% Efficiency,	$1.60
LT1616	3.6	25	1.25	$0.8V_{IN}$	0.5	0.63	–	–	1.4MHz	1.9mA	<1	ThinSOT	E	Circuit Footprint ≤ V_{IN} 50mm^2	$1.95
LTC1504/A	4.0	10	1.27	$0.84V_{IN}$	0.5	1.0	–	–	200kHz	3mA	<1	SO-8	I	Synchronous, 100% Duty Cycle, 92% Efficiency, Fixed 3.3V or Adj. Output, "A" Has Improved Features	$2.40
LTC1707	2.9	8.5	0.8	V_{IN}	0.56	0.7	yes	yes	350kHz	200	11	SO-8	I	Synchronous, 100% Duty Cycle, 96% Efficiency	$2.25
LTC3543	2.5	5.5	0.6	V_{IN}	0.6	0.8	yes	–	2.25MHz	45	<1	2×3 DFN-6	E	Synchronous, 100% Duty Cycle, 95% Efficiency, Spread Spectrum	$1.95
LTC3403	2.5	5	0.3	V_{IN}	0.6	0.7	yes	–	1.5MHz	20	<1	3×3 DFN-8	E	Synchronous, Integrated Bypass MOSFET	$2.10
LTC3408	2.5	5	0.3	V_{IN}	0.6	0.7	yes	–	1.5MHz	1.5mA	<1	3×3 DFN-8	E	Synchronous, Integrated 0.08Ω Bypass MOSFET	$1.90
LTC3448	2.5	5.5	0.6	V_{IN}	0.6	0.7	yes	yes	1.5MHz/2.25MHz	32	<1	MSOP-8E, 3×3 DFN-8	E	LDO Mode for Low Noise Operation	$2.05
LTC3409	1.6	5.5	0.62	V_{IN}	0.6	0.75	yes	yes	2.6MHz	60	<1	3×3 DFN-8	E	Minimum V_{IN} = 1.6V, Synchronous, 100% Duty Cycle, Ideal for 2-Cell AA Alkaline	$2.15
LT1933	3.6	36	1.2	$0.88V_{IN}$	0.6	0.75	–	–	500kHz	1.6mA	<1	2×3 DFN-6, TSOT-6	E, I, H	Integrated Soft-Start	$2.20
LTC3406A/AB	2.5	5.5	0.6	V_{IN}	0.6	0.75	yes	–	1.5MHz	20/300	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, "A" Version Has Low Ripple Pulse-Skipping Mode, "AB" Disables Burst Mode Operation	$1.83
LTC3406/B	2.5	5.5	0.6	V_{IN}	0.6	0.75	yes	–	1.5MHz	20/300	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, "B" Version Has Burst Mode Defeat for Lower Noise	$2.01
LTC3406B-2	2.5	5.5	0.6	V_{IN}	0.6	0.75	yes	–	2.25MHz	350	<1	ThinSOT	E	2.25MHz, Synchronous, 100% Duty Cycle, 96% Efficiency	$2.16
LTC1877	2.7	10	0.8	V_{IN}	0.6	0.8	yes	yes	550kHz	10	<1	MSOP-8	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$2.95
LTC1878	2.7	6	0.8	V_{IN}	0.6	0.8	yes	yes	550kHz	10	<1	MSOP-8	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$2.60
LTC3404	2.7	6	0.8	V_{IN}	0.6	0.8	yes	yes	1.4MHz	10	<1	MSOP-8	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$2.70
LTC3419	2.5	5.5	0.6	V_{IN}	0.6×2	0.9	yes	–	2.25MHz	55	<1	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "-1" Has Fixed 1.575V & 1.8V Fixed Outputs	$1.95
LTC3407/A	2.5	5.5	0.6	V_{IN}	0.6×2	0.75	yes	yes	1.5MHz	40	<1	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "A" Has Soft-Start	$2.60
LTC3562	2.9	5.5	0.6	V_{IN}	0.6×2/ 0.4×2	0.85	yes	–	2.25MHz	100	<1	3×3 QFN-20	E	Quad Output with I^{2}C Interface, Synchronous, 100% Duty Cycle, 96% Efficiency	$3.25
LTC1627	2.7	8.5	0.8	V_{IN}	0.64	0.8	yes	yes	350kHz	200	15	SO-8	I	Synchronous, 100% Duty Cycle, 96% Efficiency	$2.05
LT3509	3.7	36/60	0.8	$0.9V_{IN}$	0.7×2	1.2	–	yes	250kHz to 2.5MHz	2.8mA	<1	4×3 DFN-14	E, I, H	36V Input, Dual 0.7A Outputs, OV Transient Protection to 60V	$2.95
LTC1701/B	2.5	5.0	1.25	V_{IN}	0.72	0.9	–	–	1.0MHz	135	<1	ThinSOT	E	100% Duty Cycle, 94% Efficiency	$1.95
LTC3560	2.5	5.5	0.6	V_{IN}	0.8	0.9	yes	yes	2.25MHz	16	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, 95% Efficiency,	$1.90
LT1107	2.0	30	1.25	$0.64V_{IN}$	0.8	1.0	–	–	63kHz	320	n/a	DIP-8, SO-8	I	Step-Up or Step-Down, Fixed V_{OUT} 5V or 12V or Adj	$2.25
LT1173	2.0	30	1.25	$0.43V_{IN}$	0.8	1.0	–	–	23kHz	110	n/a	DIP-8, SO-8		Step-Up or Step-Down, Fixed V_{OUT} 5V or 12V or Adj	$2.30
LT1108	2.0	30	1.25	$0.63V_{IN}$	0.8	1.0	–	–	20kHz	110	n/a	DIP-8, SO-8		Step-Up or Step-Down, Fixed V_{OUT} 5V or 12V or Adj	$2.45
LT1111	2.0	30	1.25	$0.24V_{IN}$	0.8	1.0	–	–	72kHz	300	n/a	DIP-8, SO-8	I	Step-Up or Step-Down, Fixed V_{OUT} 5V or 12V or Adj	$2.30

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Max Switch Current (A)	Synchronous	Ext SYNC[3]	Switching Frequency[4]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3548	2.5	5.5	0.6	V_{IN}	0.8/0.4	1.2	yes	yes	2.25MHz	40	<1	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; "Plain" Has Adj. Outputs, "-1" Has Fixed 1.8V and 1.575V Outputs, "-2" Has Fixed 1.2V and Adjustable Outputs	$2.60
LTC3407-x/A-2	2.5	5.5	0.6	V_{IN}	0.8×2	1.2	yes	–	2.25MHz	40	<1	MSOP-10E, 3×3 DFN-10	I	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; "-2" Version of LTC3407 Increases I_{OUT} to 0.8A, "A" Has Soft-Start, "-4" Has Reduced POR time, "-3" Has Fixed 1.8V and 3.3V Outputs	$2.95
LTC3545/-1	2.3	5.5	0.6	V_{IN}	0.8×3	1.0	yes	yes	2.25MHz	60.0	<1	3×3 QFN-16,	E	Synchronous Triple 800mA Outputs. "-1" Replaces SYNC Pin with Power Good and Forces Burst Mode Operation	$3.10
LTC1265	4.0	13	1.25	V_{IN}	0.96	1.2	–	–	700kHz	1.8mA	15	SO-14	I	Fixed Outputs of 3.3V, 5V Available	$3.75
LT1176	7.3	35	2.2	$0.85V_{IN}$	0.96	1.2	–	–	100kHz	8mA	140	DIP-8, SO-20		Fixed Output of 5V Available	$3.10
LT3682	**3.6**	**36/60**	**0.8**	**20**	**1.0**	**1.5**	**–**	**yes**	**250kHz to 2.2MHz**	**35**	**<1**	**3×3 DFN-12**	**E, I**	**60V Transient Protection with OV Lockout, PGOOD, 15mV$_{P-P}$ Low Ripple Burst Mode Operation**	**$2.95**
LTC3561A	2.5	5.5	0.8	V_{IN}	1.0	1.3	yes	–	850kHz to 4MHz	330	<1	3×3 DFN-8	E,I	Synchronous, 100% Duty Cycle, 95% Efficiency	$1.75
LT3503	3.6	20	0.78	$0.85V_{IN}$	1.0	1.45	–	–	2.2MHz	1.9mA	<2	2×3 DFN-6	E	20V, 1A Buck in 2×3 DFN package	$2.25
LTC3446	2.7	5.5	0.4	V_{IN}	1.0/0.3×2	1.2	yes	–	2.25MHz	140	<1	4×3 DFN-14	E	Synchronous, 100% Duty Cycle, 95% Efficiency, Plus Dual VLDO	$2.75
LTC3520	2.2	5.5	0.8	5.5	1.0/0.6	1.4	yes	–	100kHz to 2MHz	55	<1	4×4 QFN-24	E	Dual Output, Synchronous 1A Buck-Boost and a 600mA Buck	$3.50
LT3653	7.5	30	4.0	5.5	1.2	1.5	–	yes	1.5MHz	2.8mA	<1	2×3 DFN-8	I	Battery Charger Pre-Regulator with Adjustable Current Limit	$2.50
LT3505	3.6	36	0.78	$0.87V_{IN}$	1.2	1.4	–	–	200kHz to 2.8MHz	1.9mA	2	3×3 DFN-8, MSOP-8E	I	1.2A Output Current from Tiny 3×3 DFN	$2.40
LT3493	3.6	36	0.78	$0.87V_{IN}$	1.2	1.4	–	–	750kHz	1.9mA	2	2×3 DFN-6	I	1.2A Output Current from Tiny 2×3 DFN	$2.65
LT1767	3.0	25	1.2	$0.8V_{IN}$	1.2	1.5	–	yes	1.25MHz	1mA	6	MSOP-8E	E	Fixed Outputs of 1.8V, 2.5V, 3.3V, 5V Available	$2.95
LT1507	4.0	15	2.42	$0.86V_{IN}$	1.2	1.5	–	yes	500kHz	4mA	20	DIP-8, SO-8	I	Inductor Size Reduced to 2µH, Fixed Output of 3.3V Available	$3.50
LT1375/ LT1376/HV	5.0	25/30	2.42	$0.86V_{IN}$	1.2	1.5	–	LT1375	500kHz	2.5mA	20	DIP-8, SO-8, SO-16	I	HV Version V_{IN} to 30V, Inductor Size Reduced to 5µH	$3.26
LT1956	5.5	60	1.2	$0.75V_{IN}$	1.2	1.5	–	yes	500kHz	2.5mA	25	TSSOP-16E	I	Thermally Enhanced Package Fixed Output of 5V Available	$3.65
LT1766	5.5	60	1.2	$0.9V_{IN}$	1.2	1.5	–	yes	200kHz	2.5mA	25	TSSOP-16E	H	Fixed Output of 5V Available	$3.65
LT1976/B	3.3	60	1.2	$0.9V_{IN}$	1.2	1.5	–	yes	200kHz	100	<1	TSSOP-16E	H	60V Input and I_Q=100µA	$3.50
LT1977	3.3	60	1.2	$0.9V_{IN}$	1.2	1.5	–	yes	500kHz	100	<1	TSSOP-16E	I	60V Input and I_Q=100µA	$4.00
LTC1879	2.7	10	0.8	V_{IN}	1.2	1.5	yes	yes	550kHz	15	<1	SSOP-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency, Integrated PLL	$3.60
LTC3569	**2.5**	**5.5**	**0.425**	**V_{IN}**	**1.2 & 0.6 × 2**	**1.8**	**yes**	**yes**	**1MHz to 3MHz**	**47**	**<1**	**3×3 QFN-20, TSSOP-16E**	**E, I**	**Triple, Synchronous, 100% Duty Cycle, PGOOD Pin, Programmble VFB Servo Voltage**	**$3.10**
LTC3564	2.5	5.5	0.6	V_{IN}	1.25	1.5	yes	no	2.25MHz	20	<1	2×3 DFN-10, ThinSOT	I	Synchronous, 100% Duty Cycle, Micropower, 95% Efficiency	$1.95
LTC3565	**2.5**	**5.5**	**0.6**	**5**	**1.25**	**1.5**	**yes**	**yes**	**400kHz to 4MHz**	**40**	**<1**	**3×3 DFN-10, MSOP-10E**	**E, I**	**Synchronous, 100% Duty Cycle, Micropower, Low Ripple Burst Mode Operation, Up to 4MHz Switching**	**$2.00**
LTC3411/A	2.5	5.5	0.8	V_{IN}	1.25	1.6	yes	yes	300kHz to 4MHz	60	<1	3×3 DFN-10, MSOP-10	E	Synchronous, 100% Duty Cycle, 95% Efficiency. "Plain" Version Has 2.625V Minimum V_{IN}	$2.00
LTC3417/A-x	2.25	5.5	0.8	V_{IN}	1.4/0.8 or 1.5/1.0	1.8	yes	yes	600kHz to 4MHz	125	<1	TSSOP-20E, 5×3 DFN-16	E	Dual Synchronous, 100% Duty Cycle, 95% Efficiency, A Grade Offers Higher I_{OUT}	$3.45
LT3508	3.7	36	0.8	$0.9V_{IN}$	1.4 × 2	2.0	–	yes	250kHz to 2.5MHz	4.6mA	<1	4×4 QFN-24, TSSOP-16E	I	Dual 2A, 36V Switches in TSSOP-16E	$3.35
LT1940	3.6	25	1.25	$0.78V_{IN}$	1.4 × 2	1.8	–	–	1.1MHz	3.8mA	30	TSSOP-16E	E	Dual Output, Thermally Enhanced Package	$3.70
LT1940L	3.6	7.0	1.25	$0.78V_{IN}$	1.4×2	1.8	–	–	1.1MHz	3.8mA	30	TSSOP-16E	E	Dual Output, Thermally Enhanced Package	$2.70
LT1936	3.6	36	1.2	$0.87V_{IN}$	1.4	1.9	–	–	500kHz	1.9mA	<1	MSOP-8E	H	36V Input, 1.9A Switch	$2.75
LTC3417A-1/-2	2.25	5.5	0.8	V_{IN}	1.5/1.0	1.8	yes	yes	600kHz to 4MHz	125	<1	TSSOP-20E, 5×3 DFN-16	I	Dual Synchronous, 100% Duty Cycle, 95% Efficiency, Low Ripple Burst Mode Operation. "A-1" Has POR. "A-2" Has PGOOD	$2.93
LTC1875	2.7	6.0	0.8	V_{IN}	1.5	1.6	yes	yes	550kHz	15	<1	TSSOP-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency, Integrated PLL	$3.50
LT1076/HV	7.3	45/64	2.21	$0.85V_{IN}$	1.6	2.0	–	–	100kHz	8.5mA	10	DD-5/7, TO-220	I	HV Version V_{IN} to 60V, Programmable Current Limit	$3.40
LT3506/A	3.6	25	0.8	$0.9V_{IN}$	1.6×2	2.0	–	–	575kHz/1.1MHz	3.8mA	<30	TSSOP-16E, 5×4 DFN	E	Dual Switcher, "A" Switches at 1.1MHz	$2.95
LTC3568	2.5	5.5	0.8	V_{IN}	1.8	2.4	yes	yes	850kHz to 4MHz	60	<1	3×3 DFN-10	E		$2.95
LT3480	3.6	38/60	0.8	$0.9V_{IN}$	2.0	3.0	–	yes	260kHz to 2MHz	70	<1	3×3 DFN-10, MSOP-10E	I	Transient Protection to 60V, 2A I_{OUT}, Micropower, Low Ripple Burst Mode Operation	$3.45
LT3685	3.6	38/60	0.8	$0.9V_{IN}$	2.0	3.2	–	yes	260kHz to 2MHz	0.4mA	<1	3×3 DFN-10, MSOP-10E	I	Transient Protection to 60V, 2A I_{OUT}	$3.05
LT1912	3.6	36	0.79	$0.9V_{IN}$	2.0	3.0	–	yes	200kHz to 500kHz	0.8mA	<1	3×3 DFN-10, MSOP-10E	I	2A, 36V Step-Down	$2.95

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

MONOLITHIC BUCK (STEP-DOWN)

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Max Switch Current (A)	Synchronous	Ext SYNC[3]	Switching Frequency[4]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3481	3.5	34/36	1.3	$0.9V_{IN}$	2.0	3.2	–	yes	300kHz to 2.8MHz	50	<1	3×3 DFN-10, MSOP-10E	I	2A, Low Ripple (15mV) Burst Mode Operation, I_Q<50µA, Synchronizable	$3.25
LT3681	3.6	34/36	1.3	20	2.0	3.2	–	yes	300kHz to 2.8MHz	50	<1	4×3 DFN-14	I	34V, 2A Micropower Part with Internal Schottky Diode	$3.65
LT3684	3.5	34/36	1.3	$0.9V_{IN}$	2.0	3.1	–	yes	300kHz to 2.8MHz	0.85mA	<1	3×3 DFN-10, MSOP-10E	I	2A Continuous Inductor Current Operation	$2.95
LT3500	3.0	36	0.8	$0.9V_{IN}$	2/5	2.3	–	yes	250kHz to 2.2MHz	2.5mA	<12	3×3 DFN-10	H	2A, 36V Step-Down with LDO Controller	$3.25
LT1939	3.0	25	0.8	$0.9V_{IN}$	2/5	2.3	–	yes	250kHz to 2.2MHz	2.5mA	<12	3×3 DFN-10	I	2A, 25V Step-Down with LDO Controller	$3.05
LT3510	3.3	25	0.8	$0.9\ V_{IN}$	2.0×2	2.5	–	yes	250kHz to 1.5MHz	3.5mA	<10	TSSOP-20E	E	Dual 2.5A Switches in TSSOP-20E	$3.25
LT1938	3.6	25	1.265	$0.9V_{IN}$	2.2	3.1	–	–	300kHz to 2.8MHz	0.8mA	<1	3×3 DFN-10	I	2A, 25V Step-Down	$2.75
LT3434	3.3	60	1.2	$0.9\ V_{IN}$	2.4	3.0	–	yes	200kHz	100	<1	TSSOP-16E	I	60V Input and I_Q=100µA	$5.25
LT3435	3.3	60	1.2	$0.9\ V_{IN}$	2.4	3.0	–	yes	500kHz	100	<1	TSSOP-16E	I	60V Input and I_Q=100µA	$5.25
LT1765	3.0	25	1.2	$0.8V_{IN}$	2.4	3.0	–	yes	1.25MHz	1mA	15	SO-8, TSSOP-16E	E	Thermally Enhanced Package	$4.67
LT3507	4.0	36	0.8	$0.9V_{IN}$	2.4/1.5×2	3	–	yes	250kHz to 2.5MHz	2mA	<1	5×7 QFN-38	H	40V Input with Triple Outputs Plus LDO Controller	$4.25
LTC3602	**4.5**	**10**	**0.6**	**V_{IN}**	**2.5**	**3.8**	**yes**	**yes**	**300kHz to 3MHz**	**75**	**<1**	**TSSOP-16E, 4×4 QFN-20**	**I**	**Synchronous, 99% Duty Cycle, 95% Efficiency, Ideal for Two Series Li-Ions**	**$4.00**
LTC3603	**4.5**	**15**	**0.6**	**V_{IN}**	**2.5**	**3.8**	**yes**	**yes**	**300kHz to 3MHz**	**75**	**<1**	**MSSOP-16E, 4×4 QFN-16**	**I**	**Synchronous, 99% Duty Cycle, 95% Efficiency, Ideal for 12V Inputs**	**$4.00**
LTC3412	2.5	5.5	0.8	V_{IN}	2.5	4.0	yes	yes	300kHz to 4MHz	60	<1	TSSOP-16E, 4×4 QFN-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$3.95
LT3430/-1	5.5	60	1.2	$0.9V_{IN}$	2.75	3	–	yes	200kHz/100kHz	2.5mA	30	TSSOP-16E	E	V_{IN} to 60V, Thermally Enhanced Package. "-1" Has 100kHz Switching	$4.95
LT3431	5.5	60	1.2	$0.8V_{IN}$	2.75	3.0	–	yes	500kHz	2.5mA	30	TSSOP-16E	E	V_{IN} to 60V, Thermally Enhanced Package	$4.95
LTC3412A	2.25	5.5	0.8	V_{IN}	3.0	4.5	yes	yes	300kHz to 4MHz	64	<1	TSSOP-16E, 4×4 QFN-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$4.10
LTC3413	2.25	5.5	$V_{REF}/2$	$V_{REF}/2$	3.0	3.0	yes	–	2.0MHz	60	<1	TSSOP-16E	E	QDR and DDR Applications Only, Can Sink/Source 3A	$3.95
LT3501	3.3	25	0.8	$0.9V_{IN}$	3.0×2	3.5	–	yes	250kHz to 1.5MHz	3.5mA	<10	TSSOP-20E	E	Dual 3.5A Switches in TSSOP-20E	$3.50
LT3680	3.6	36	0.8	30	3.5	4.6	–	yes	250kHz to 2.4MHz	75	<1	3×3 DFN-10, MSOP-10E	I	36V Operation and I_Q=75µA	$4.15
LT3693	3.6	36	0.8	30	3.5	4.6	–	yes	250kHz to 2.4MHz	1.3mA	<1	3×3 DFN-10, MSOP-10E	I	36V Operation	$3.85
LT1913	3.6	25	0.79	30	3.5	4.6	–	–	250kHz to 2.4MHz	1.3mA	<1	3×3 DFN-10	I	25V Operation	$3.65
LT3972	**3.6**	**33/62**	**0.79**	**30**	**3.5**	**4.6**	**–**	**yes**	**200kHz to 2.4MHz**	**75**	**<1**	**3×3 DFN-10, MSOP-10E**	**E, I**	**Transient Protection to 62V, Micropower, Low Ripple Burst Mode Operation**	**$4.25**
LT1506	4.0	15	2.42	$0.86V_{IN}$	3.6	4.5	–	yes	500kHz	3.8mA	20	SO-8, DD-7	I	Cycle by Cycle Current Limiting, Inductor Size Reduced to 1.8µH	$4.40
LT1959	4.0	15	1.21	$0.86V_{IN}$	3.6	4.5	–	yes	500kHz	3.8mA	15	SO-8, DD-7	I	Cycle by Cycle Current Limiting, Inductor Size Reduced to 1.8µH	$4.40
LT3414	2.3	5.5	0.8	V_{IN}	4.0	6.4	yes	–	300kHz to 4MHz	68	<1	TSSOP-20E	I	Synchronous, 100% Duty Cycle, 95% Efficiency	$4.25
LT3416	2.3	5.5	0.8	V_{IN}	4.0	6.4	yes	–	300kHz to 4MHz	68	<1	TSSOP-20E	E	Tracking, Synchronous, 100% Duty Cycle, 95% Efficiency	$4.62
LT1374/HV	5.0	25/32	2.42	$0.86V_{IN}$	4.25	4.25	–	yes	500kHz	2.5mA	20	SO-8, DD-7, TO-220 TSSOP-16E	E	HV Version V_{IN} to 32V, Inductor Size Reduced to 1.8µH, Thermally Enhanced Package	$4.40
LT1074/HV	7.3	45/64	2.21	$0.85V_{IN}$	4.4	5.5	–	–	100kHz	8.5mA	10	DD-5/7, TO-220	I	HV Version V_{IN} to 60V, Programmable Current Limit	$5.05
LTC3605	4.0	15	0.6	V_{IN}	5.0	5.0	yes	yes	1MHz	2mA	<15	4×4 QFN-24	E	Synchronous, 99% Duty Cycle, 95% Efficiency, Ideal for 12V Inputs	$4.25
LTC3609	**4.0**	**32/36**	**0.6**	**$0.9V_{IN}$**	**6.0**	**6.0**	**yes**	**–**	**Up to 2MHz**	**900**	**<15**	**7×8 QFN-52**	**E, I**	**Valley Current Control, Optimized For Large Step-Down Ratios, Fast Transient Response, PGOOD Output**	**$7.75**
LTC3415	2.5	5.5	0.6	V_{IN}	7.0	11	yes	yes	2.25MHz	450	<1	5×7 QFN-38	E	Stackable, Tracking, Synchronous, 100% Duty Cycle, 95% Efficiency	$6.50
LTC3418	2.3	5.5	0.8	V_{IN}	8.0	12	yes	yes	300kHz to 4MHz	380	<1	5×7 QFN-38	E	Tracking, Synchronous, 100% Duty Cycle, 95% Efficiency	$5.73
LTC3608	**4.0**	**18**	**0.6**	**V_{IN}**	**8.0**	**8.0**	**yes**	**–**	**1MHz**	**900**	**<15**	**7×8 QFN-52**	**I**	**Synchronous, 99% Duty Cycle, 95% Efficiency, Ideal for 12V/15V Inputs**	**$7.50**
LTC3611	4.0	32	0.6	V_{IN}	10	15	yes	–	1MHz	900	<15	9×9 QFN-64	I	32V, 10A Monolithic	$9.75
LTC3610	4.0	24	0.6	V_{IN}	12	12	yes	–	1MHz	900	<15	9×9 QFN-64	E	24V, 12A Monolithic	$8.50

† Primary Sort Column

Notes:
1. Approximate value. See data sheet for detailed information.
2. Approximately 80% of Switch Current
3. External Frequency Synchronization
4. COT = Constant Off Time

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Max Switch Current (A)	SYNC Pin	Switching Frequency[3]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3642	**4.5**	**45/60**	**0.8**	**V_{IN}**	**0.05**	**0.02 or 0.1**	**–**	**50kHz to 580kHz**	**12**	**<6**	**3×3 DFN-8, MSOP-8E**	**E, I**	**60V Transient Protection, Synchronous, Burst Mode Operation, UV/OV Lockout. Selectable Switch Current Limit; 3.3V, 5V or Adj V_{OUT}**	**$2.65**
LT1934-1	3.2	34	1.25	0.85V_{IN}	0.07	0.09	–	COT	12	<1	ThinSOT, 2×3 DFN-6	E	Same Electricals as LT1934 But with 90mA Switch Current	$2.26
LTC3631	**4.5**	**45/60**	**0.8**	**V_{IN}**	**0.10**	**0.04 or 0.2**	**–**	**50kHz to 580kHz**	**12**	**<6**	**3×3 DFN-8, MSOP-8E**	**E, I**	**60V Transient Protection, Synchronous, Burst Mode Operation, UV/OV Lockout. Selectable Switch Current Limit; 3.3V, 5V or Adj V_{OUT}**	**C.F.**
LT3470/A	4.0	40	1.25	16	0.2/0.25	0.25/0.32	–	Hysteretic	26/35	<1	ThinSOT, 3×2 DFN-8	H	Integrated Schottky and Catch Diodes	$2.36
LT1934	3.2	34	1.25	0.85V_{IN}	0.30	0.35	–	COT	12	<1	ThinSOT, 2×3 DFN-6	E	350mA Switch Current	$2.26
LT3437	3.3	80	1.25	0.9V_{IN}	0.40	0.5	yes	200kHz	75	<1	3×3 DFN-10, TSSOP-16E	H	80V, Burst Mode Device	$2.25
LT3433	4.0	60	3.3	20	0.40	0.5	–	200kHz	100	<1	TSSOP-16E	I	True Buck-Boost Topology, 400mA in Buck Mode, 200mA in Boost Mode	$3.25
LT1777	7.0	48	1.24	0.85V_{IN}	0.44	0.55	yes	100kHz	620	12	SO-16	I	Programmable di/dt Limit for Low Noise Applications	$2.65
LT1676	7.4	60	1.24	0.85V_{IN}	0.44	0.55	yes	100kHz	3.2mA	2.5	SO-8	I	Wide Input Range	$2.60
LT3502/A	3.4	40	0.8	0.9V_{IN}	0.5	0.7	–	1.1MHz/2.2MHz	1.5mA	<1	2×2 DFN-8, MSOP-10	I	40V, 500mA From a 2×2 DFN. "A" Switches at 2.2MHz	$1.95
LT1616	3.6	25	1.25	0.8V_{IN}	0.5	0.63	–	1.4MHz	1.9mA	<1	ThinSOT	E	Circuit Footprint ≤ 50mm^2	$1.95
LT1776	7.4	40	1.24	0.85V_{IN}	0.56	0.7	yes	200kHz	3.2mA	30	DIP-8, SO-8	I	Transients to 60V	$2.45
LT1933	3.6	36	1.2	0.88V_{IN}	0.6	0.75	–	500kHz	1.6mA	<1	ThinSOT	E	Integrated Soft-Start	$2.20
LT3509	3.7	36	0.8	0.9V_{IN}	0.7×2	1.2	yes	250kHz to 2.5MHz	2.8mA	<1	4×3 DFN-14	E, I, H	36V Input, Dual 0.7A Outputs	$2.95
LT1107	2.0	30	1.25	0.64V_{IN}	0.8	1.0	–	63kHz	320	n/a	DIP-8, SO-8	I	Step-Up or Step-Down, Fixed V_{OUT} 5V, 12V or Adjustable Output	$2.25
LT1173	2.0	30	1.25	0.43V_{IN}	0.8	1.0	–	23kHz	110	n/a	DIP-8, SO-8		Step-Up or Step-Down, Fixed V_{OUT} 5V, 12V or Adjustable Output	$2.30
LT1108	2.0	30	1.25	0.63V_{IN}	0.8	1.0	–	20kHz	110	n/a	DIP-8, SO-8		Step-Up or Step-Down, Fixed V_{OUT} 5V, 12V or Adjustable Output	$2.45
LT1111	2.0	30	1.25	0.24V_{IN}	0.8	1.0	–	72kHz	300	n/a	DIP-8, SO-8	I	Step-Up or Step-Down, Fixed V_{OUT} 5V, 12V or Adjustable Output	$2.30
LT1176	7.3	35	2.2	0.85V_{IN}	0.96	1.2	–	100kHz	8mA	10	DIP-8, SO-20		Fixed 5V or Adjustable Output	$3.10
LT3682	**3.6**	**36/60**	**0.8**	**20**	**1.0**	**1.5**	**yes**	**250kHz to 2.2MHz**	**35**	**<1**	**3×3 DFN-12**	**E, I**	**60V Transient Protection with OV Lockout, PGOOD, 15mV_{P-P} Low Ripple Burst Mode Operation**	**$2.95**
LT3493	3.6	36	0.78	0.87V_{IN}	1.2	1.4	–	750kHz	1.9mA	2	2×3 DFN-6	I	1.2A Output Current from Tiny 2×3 DFN	$2.65
LT3505	3.6	36	0.78	0.87V_{IN}	1.2	1.4	–	200kHz to 2.8MHz	1.9mA	2	3×3 DFN-8, MSOP-8E	I	1.2A Output Current from Tiny 3×3 DFN	$2.40
LT1767	3.0	25	1.2	0.8V_{IN}	1.2	1.5	yes	1.25MHz	1mA	6	MSOP-8E	E	Fixed Outputs of 1.8V, 2.5V, 3.3V, 5V Available	$2.95
LT1375/76/HV	5.0	25/30	2.42	0.86V_{IN}	1.2	1.5	yes	500kHz	2.5mA	20	DIP-8, SO-8, SO-16	I	HV Version V_{IN} to 30V, Inductor Size Reduced to 5µH	$3.26
LT1956	5.5	60	1.2	0.75V_{IN}	1.2	1.5	yes	500kHz	2.5mA	25	TSSOP-16E	I	Thermally Enhanced Package Fixed Output of 5V Available	$3.65
LT1766	5.5	60	1.2	0.9V_{IN}	1.2	1.5	yes	200kHz	2.5mA	25	TSSOP-16E	H	Fixed Output of 5V Available	$3.65
LT1976	3.3	60	1.2	0.9V_{IN}	1.2	1.5	yes	200kHz	100	<1	TSSOP-16E	H	Micropower Operation	$4.00
LT1977	3.3	60	1.2	0.9V_{IN}	1.2	1.5	yes	500kHz	100	<1	TSSOP-16E	I	Micropower Operation	$4.00
LT1936	3.6	36	1.2	0.87V_{IN}	1.4	1.9	–	500kHz	1.9mA	<1	MSOP-8E	H	36V Input, 1.9A Switch	$2.75
LT3508	3.7	36	0.8	0.9V_{IN}	1.4×2	2.0	yes	250kHz to 2.5MHz	4.6mA	<1	4×4 QFN-24, TSSOP-16E	I	Dual 2A, 36V Switcher in TSSOP-16E	$3.35
LT1940	3.6	25	1.25	0.78V_{IN}	1.4×2	1.8	–	1.1MHz	3.8mA	30	TSSOP-16E	E	Dual Output, Thermally Enhanced Package	$3.70
LT1076/HV	7.3	45/64	2.21	0.85V_{IN}	1.6	2.0	–	100kHz	8.5mA	10	DD-5/7, TO-220	I	HV Version V_{IN} to 60V, Programmable Current Limit	$3.40
LT3506/A	3.6	25	0.8	0.9V_{IN}	1.6	2.0	–	575kHz/1.1MHz	3.8mA	<30	TSSOP-16E, 5×4 DFN-16	E	Dual Switcher, "A" Switches at 1.1MHz	$2.95
LT3510	3.3	25	0.8	0.9V_{IN}	2.0	2.5	yes	250kHz to 1.5MHz	3.5mA	<10	TSSOP-20E	E	Dual 2.5A Switcher in TSSOP-20E	$3.25
LT3480	3.6	38/60	0.79	0.9V_{IN}	2.0	3.0	yes	260kHz to 2MHz	70	<1	3×3 DFN-10, MSOP-10E	I	Transient Protection to 60V, 2A Continuous Inductor Current Operation, Micropower	$3.45
LT3685	3.6	38/60	0.79	0.9V_{IN}	2.0	3.2	yes	260kHz to 2MHz	70	<1	3×3 DFN-10, MSOP-10E	I	Transient Protection to 60V, 2A Continuous Inductor Current Operation	$3.05
LT1912	3.6	36	0.79	0.9V_{IN}	2.0	3.0	–	200kHz to 500kHz	0.8mA	<1	3×3 DFN-10, MSOP-10E	I	2A, 36V Step-Down	$2.95
LT3481	3.5	34	1.265	0.9V_{IN}	2.0	3.2	–	300kHz to 2.8MHz	50	<1	3×3 DFN-10, MSOP-10E	I	2A, Low Ripple (15mV) Burst Mode Operation, I_Q<50µA, Synchronizable	$3.25
LT3681	3.6	34	1.265	20	2.0	3.2	–	300kHz to 2.8MHz	50	<1	4×3 DFN-14	I	34V, 2A Micropower Part with Internal Schottky Diode	$3.65
LT3684	3.5	34	1.265	0.9V_{IN}	2.0	3.1	–	300kHz to 2.8MHz	0.85mA	<1	3×3 DFN-10, MSOP-10E	I	2A Continuous Inductor Current Operation,	$2.95
LT1938	3.6	25	1.265	0.9V_{IN}	2.0	3.1	–	300kHz to 2.8MHz	0.8mA	<1	3×3 DFN-10	I	2A, 25V Step-Down	$2.75
LT3500	3.0	36	0.8	0.9V_{IN}	2/5	2.3	yes	250kHz to 2.2MHz	2.5mA	<12	3×3 DFN-10	H	2A, 36V Step-Down with LDO Controller	$3.25
LT1939	3.0	25	0.8	0.9V_{IN}	2/5	2.3	yes	250kHz to 2.2MHz	2.5mA	<12	3×3 DFN-10	I	2A, 25V Step-Down with LDO Controller	$3.05
LT3434	3.3	60	1.2	0.9V_{IN}	2.4	3.0	–	200kHz	100	<1	TSSOP-16E	I	60V Input and I_Q=100µA	$5.25
LT3435	3.3	60	1.2	0.9V_{IN}	2.4	3.0	–	500kHz	100	<1	TSSOP-16E	I	60V Input and I_Q=100µA	$5.25
LT1765	3.0	25	1.2	0.8V_{IN}	2.4	3.0	–	1.25MHz	1mA	15	SO-8, TSSOP-16E	E	Thermally Enhanced Package	$4.67
LT3507	4	40	0.8	0.9V_{IN}	2.4/1.5/1.5	3	yes	250kHz to 2.5MHz	2mA	<1	5×7 QFN-38	H	40V Input with Triple Outputs and LDO Controller	$4.25
LT3430/-1	5.5	60	1.2	0.9V_{IN}	2.75	3.0	–	200kHz/100kHz	2.5mA	30	TSSOP-16E	E	V_{IN} to 60V, Thermally Enhanced Package. "-1" Has 100kHz Switching	$4.95
LT3431	5.5	60	1.2	0.8V_{IN}	2.75	3.0	–	500kHz	2.5mA	30	TSSOP-16E	E	V_{IN} to 60V, Thermally Enhanced Package	$4.95
LT3501	3.3	25	0.8	0.9V_{IN}	3.0×2	3.5	yes	250kHz to 1.5MHz	3.5mA	<10	TSSOP-20E	E	Dual 3.5A Switcher in TSSOP-20E	$3.50
LT3680	3.6	36	0.79	30	3.5	4.6	yes	250kHz to 2.4MHz	75	<1	3×3 DFN-10, MSOP-10E	I	36V Operation and I_Q=75µA	$4.15

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH VOLTAGE MONOLITHIC BUCK

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Max Switch Current (A)	SYNC Pin	Switching Frequency[3]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3693	3.6	36	0.79	30	3.5	4.6	yes	250kHz to 2.4MHz	1.3mA	<1	3×3 DFN-10, MSOP-10E	I	36V Operation	$3.85
LT1913	3.6	25	0.79	30	3.5	4.6	–	250kHz to 2.4MHz	1.3mA	<1	3×3 DFN-10	I	25V Operation	$3.65
LT3972	**3.6**	**33/62**	**0.79**	**30**	**3.5**	**4.6**	**yes**	**200kHz to 2.4MHz**	**75**	**<1**	**3×3 DFN-10, MSOP-10E**	**E, I**	**Transient Protection to 62V, Micropower, Low Ripple Burst Mode Operation**	**$4.25**
LT1374/HV	5.0	25/32	2.42	0.86V_{IN}	3.6	4.5	yes	500kHz	2.5mA	20	SO-8, DD, TO-220, TSSOP-16E	E	HV Version V_{IN} to 32V, Inductor Size Reduced to 1.8µH, Thermally Enhanced Package	$4.40
LT1074/HV	7.3	45/64	2.21	0.85V_{IN}	4.4	5.5	–	100kHz	8.5mA	10	DD-5/7, TO-220	I	HV Version V_{IN} to 60V, Programmable Current Limit	$5.05
LTC3609	**4.0**	**32/36**	**0.6**	**0.9V_{IN}**	**6.0**	**6.0**	**–**	**Up to 2MHz**	**900**	**15**	**7×8 QFN-52**	**E, I**	**Valley Current Control, Optimized For Large Step-Down Ratios, Fast Transient Response, PGOOD Output**	**$7.75**

† Primary Sort Column

Notes:
1. Approximate value. See data sheet for detailed information.
2. Approximately 80% of Switch Current
3. COT = Constant Off Time

MICROPOWER MONOLITHIC BUCK

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Max Switch Current (A)	Synchronous	Switching Frequency[3]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3642	**4.5**	**45/60**	**0.8**	**V_{IN}**	**0.05**	**0.02 to 0.1**	**yes**	**50kHz to 580kHz**	**12**	**<6**	**3×3 DFN-8, MSOP-8E**	**E, I**	**60V Transient Protection, Synchronous, Burst Mode Operation, UV/OV Lockout. Selectable Switch Current Limit; 3.3V, 5V or Adj V_{OUT}**	**$2.65**
LT1934-1	3.2	34	1.25	0.85V_{IN}	0.07	0.09	–	COT	12	<1	2×3 DFN-6, TSOT-23	E, I	Same Electricals as LT1934 with 90mA Isw	$2.26
LTC3631	**4.5**	**45/60**	**0.8**	**V_{IN}**	**0.10**	**0.04 to 0.2**	**yes**	**50kHz to 580kHz**	**12**	**<6**	**3×3 DFN-8, MSOP-8E**	**E, I**	**60V Transient Protection, Synchronous, Burst Mode Operation, UV/OV Lockout. Selectable Switch Current Limit; 3.3V, 5V or Adj V_{OUT}**	**C.F.**
LT3470/A	4	40	1.25	16	0.2/0.25	0.25/0.32	–	Hysteretic	26/35	<1	ThinSOT, 3×2 DFN-8	H	Integrated Schottky and Catch Diodes	$2.36
LTC3549	1.6	5.5	0.61	V_{IN}	0.25	0.3	yes	2.25MHz	50	<1	2×3 DFN-6, ThinSOT	E	Synchronous, 100% Duty Cycle, 95% Efficiency,	$1.35
LTC1779	2.5	9.8	0.8	V_{IN}	0.25	0.5	–	550kHz	135	8	ThinSOT	E	100% Duty Cycle, 94% Efficiency	$1.90
LT1934	3.2	34	1.25	0.85V_{IN}	0.30	0.35	–	COT	12	<1	2×3 DFN-6, TSOT-23	E, I	350mA Switch Current	$2.26
LTC3410/B	2.5	5.5	0.8	V_{IN}	0.3	0.38	yes	2.25MHz	26/200	<1	SC70	E	96% Efficiency in 2mm×2mm Footprint	$1.56
LTC3405/A	2.7	6	0.8	V_{IN}	0.3	0.38	yes	1.5MHz	20	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, 95% Efficiency, "A" Version Uses All Ceramic Caps	$1.61
LTC3547	2.5	5.5	0.6	V_{IN}	0.3×2	0.4	yes	2.25MHz	40	<1	3×2 DFN-8	I	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency	$1.95
LTC3544	2.25	5.5	0.8	V_{IN}	0.3/0.2×2/0.1	0.4	yes	2.25MHz	80	<1	3×3 QFN-16	E	Quad Output, Synchronous, 100% Duty Cycle, 96% Efficiency	$2.95
LTC1474/ LTC1475	3.0	18	1.23	V_{IN}	0.32	0.4	–	COT	10	<6	MSOP-8	I	Pushbutton On/Off for LTC1475,100% Duty Cycle, 92% Efficiency	$3.75
LTC3670	2.5	5.5	0.8	V_{IN}	0.4	0.6	yes	2.25MHz	70	<1	2×3 DFN-12	E	Triple Output, Synchronous Switchers + Dual LDOs, Adjustable Outputs	$1.95
LTC3672B	2.9	5.5	0.8	V_{IN}	0.4	1.2	yes	2.25MHz	260	<1	2×2 DFN-8	E	Triple Output, Synchronous Switchers + Dual LDOs, Fixed Outputs	$1.95
LT3437	3.3	80	1.25	0.9V_{IN}	0.4	0.5	–	200kHz	75	<1	3×3 DFN-10, TSSOP-16E	H	80V, Burst Mode Device	$2.25
LTC1174/HV	4.0	13.5/18.5	1.25	0.7V_{IN}	0.43	0.54	–	COT	130	<1	DIP-8, SO-8	I	Fixed Outputs of 3.3V, 5V Available	$3.50
LTC1574	4.0	18.5	1.25	0.7V_{IN}	0.43	0.54	–	COT	130	<2	SO-16		Fixed Outputs of 3.3V, 5V Available	$3.50
LT1612	2.0	5.5	0.62	0.8V_{IN}	0.48	0.6	yes	800kHz	160	<1	SO-8, MSOP-8	E	Synchronous	$1.95
LTC3542	2.5	5.5	0.6	V_{IN}	0.5	0.7	yes	2.25MHz	26	<1	2×2 DFN-6, ThinSOT	E	Synchronous, 100% Duty Cycle, 95% Efficiency,	$1.60
LTC3563	2.5	5.5	1.28	1.87	0.5	0.7	yes	2.25MHz	26	<1	2×2 DFN-6	E	Pin-Selectable Output, Synchronous, 100% Duty Cycle, 95% Efficiency	$1.60
LTC3403	2.5	5	0.3	V_{IN}	0.6	0.7	yes	1.5MHz	20	<1	3×3 DFN-8	E	Synchronous, Integrated Bypass MOSFET	$2.10
LTC3448	2.5	5.5	0.6	V_{IN}	0.6	0.7	yes	1.5MHz/2.25MHz	32	<1	MSOP-8E, 3×3 DFN-8	E	LDO Mode for Low Noise Operation	$2.05
LTC1707	2.9	8.5	0.8	V_{IN}	0.56	0.7	yes	350kHz	200	11	SO-8	I	Synchronous, 100% Duty Cycle, 96% Efficiency	$2.25
LTC3543	2.5	5.5	0.6	V_{IN}	0.6	0.8	yes	2.25MHz	45	<1	2×3 DFN-6	E	Synchronous, 100% Duty Cycle, 95% Efficiency,	$1.95
LTC3406A/AB	2.5	5.5	0.6	V_{IN}	0.6	0.75	yes	1.5MHz	20/300	<1	ThinSOT	E, I	Synchronous, 100% Duty Cycle, "A" Version Has Low Ripple Pulse-Skipping Mode, "B" Version Disables Burst Mode Operation	$1.83
LTC3406/B	2.5	5.5	0.6	V_{IN}	0.6	0.75	yes	1.5MHz	20/300	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, "B" Version Disables Burst Mode Operation for Lower Noise	$2.01
LTC3406B-2	2.5	5.5	0.6	V_{IN}	0.6	0.75	yes	2.25MHz	350	<1	ThinSOT	E	2.25MHz, Synchronous, 100% Duty Cycle, 96% Efficiency	$2.16
LTC3409	1.6	5.5	0.62	V_{IN}	0.6	0.75	yes	2.6MHz	60	<1	3×3 DFN-8	E	Minimum V_{IN}=1.6V, Synchronous, 100% Duty Cycle, Ideal for 2-Cell AA Alkaline	$2.15
LTC1877	2.7	10	0.8	V_{IN}	0.6	0.8	yes	550kHz	10	<1	MSOP-8	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$2.95
LTC1878	2.7	6	0.8	V_{IN}	0.6	0.8	yes	550kHz	10	<1	MSOP-8	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$2.60
LTC3404	2.7	6	0.8	V_{IN}	0.6	0.8	yes	1.4MHz	10	<1	MSOP-8	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$2.70
LTC3419	2.5	5.5	0.6	V_{IN}	0.6×2	1.2	yes	2.25MHz	55	<1	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "-1" Has Fixed 1.575V & 1.8V Fixed Outputs	$1.95
LTC3407/A	2.5	5.5	0.6	V_{IN}	0.6×2	0.75	yes	1.5MHz	40	<1	MSOP-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "A" Has Soft-Start	$2.60

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Max Switch Current (A)	Synchronous	Switching Frequency[3]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC1627	2.7	8.5	0.8	V_{IN}	0.64	0.8	yes	350kHz	200	15	SO-8	I	Synchronous, 100% Duty Cycle, 96% Efficiency	$2.05
LTC1701	2.5	5	1.25	V_{IN}	0.72	0.9	–	1.0MHz	135	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, 94% Efficiency	$1.95
LTC3560	2.5	5.5	0.6	V_{IN}	0.8	0.9	yes	2.25MHz	16	<1	ThinSOT	E	Synchronous, 100% Duty Cycle, 95% Efficiency,	$1.90
LT1173	2.0	30	1.25	$0.43V_{IN}$	0.8	1.0	–	23kHz	110	n/a	DIP-8, SO-8		Step-Up or Step Down, Fixed V_{OUT} 5V, 12V or Adjustable Output	$2.30
LT1108	2.0	30	1.25	$0.63V_{IN}$	0.8	1.0	–	20kHz	110	n/a	DIP-8, SO-8		Step-Up or Step Down, Fixed V_{OUT} 5V, 12V or Adjustable Output	$2.45
LT1111	2.0	30	1.25	$0.24V_{IN}$	0.8	1.0	–	72kHz	300	n/a	DIP-8, SO-8	I	Step-Up or Step Down, Fixed V_{OUT} 5V, 12V or Adjustable Output	$2.30
LTC3548	2.5	5.5	0.6	V_{IN}	0.8/0.4	1.2	yes	2.25MHz	40	<1	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; "Plain Has Adjjustable Outputs,"-1" Has Fixed 1.8V and 1.575V Outputs, "-2" Has Fixed 1.2V and Adjustable Outputs	$2.60
LTC3407-x/A-2	2.5	5.5	0.6	V_{IN}	0.8×2	0.95	yes	2.25MHz	40	<1	MSOP-10E, 3×3 DFN-10	I	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; "-2" Version of LTC3407 Increases I_{OUT} to 0.8A, "A" Has Soft-Start, "-4" Has Reduced POR time, "-3" Has Fixed 1.8V and 3.3V Outputs	$2.95
LTC3545	2.3	5.5	0.6	V_{IN}	0.8×3	1	yes	2.25MHz	60	<1	3×3 QFN-16	E	Synchronous Triple with 800mA Outputs. "-1" Replaces SYNC Pin with PGOOD and Forces Burst Mode Operation	$3.10
LTC3562	2.9	5.5	0.6	V_{IN}	0.8×2/0.6×2		yes	2.25MHz	100	<1	3×3 QFN-20	E	Quad Output with I²C Interface, Synchronous, 100% Duty Cycle, 96% Efficiency	$3.25
LT3682	**3.6**	**36/60**	**0.8**	**20**	**1.0**	**1.5**	**yes**	**250kHz to 2.2MHz**	**35**	**<1**	**3×3 DFN-12**	**E, I**	**60V Transient Protection with OV Lockout, PGOOD, 15mV$_{P-P}$ Low Ripple Burst Mode Operation**	**$2.95**
LTC3561A	2.5	5.5	0.8	V_{IN}	1.0	1.3	yes	850kHz to 4MHz	330	<1	3×3 DFN-8	E, I	Synchronous, 100% Duty Cycle, 95% Efficiency	$1.75
LTC3520	2.2	5.5	0.8	5.5	1.0/0.6	0.9	yes	100kHz to 2MHz	55	<1	4×4 QFN-24	E	Dual Output, Synchronous 1A Buck-Boost and a 600mA Buck	$3.50
LTC3446	2.7	5.5	0.4	V_{IN}	1.0/0.3×2	1.2	yes	2.25MHz	140	<1	4×3 DFN-14	E	Synchronous, 100% Duty Cycle, 95% Efficiency Plus Dual VLDO	$2.75
LTC1879	2.7	10	0.8	V_{IN}	1.2	1.8	yes	550kHz	15	<1	TSSOP-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency, Integrated PLL	$3.60
LTC3569	**2.5**	**5.5**	**0.425**	**V_{IN}**	**1.2 & 0.6×2**	**1.8**	**yes**	**1MHz to 3MHz**	**47**	**<1**	**3×3 QFN-20, TSSOP-16E**	**E, I**	**Triple, Synchronous, 100% Duty Cycle, PGOOD Pin, Programmble VFB Servo Voltage**	**$3.10**
LTC3564	2.5	5.5	0.6	V_{IN}	1.25	1.5	yes	2.25MHz	20	<1	2×3 DFN-10, ThinSOT	I	Synchronous, 100% Duty Cycle, 95% Efficiency	$1.95
LTC3565	**2.5**	**5.5**	**0.6**	**5**	**1.25**	**1.5**	**yes**	**400kHz to 4MHz**	**40**	**<1**	**3×3 DFN-10, MSOP-10E**	**E, I**	**Synchronous, 100% Duty Cycle, Micropower, Low Ripple Burst Mode Operation, Up to 4MHz Switching**	**$2.00**
LT1976	3.3	60	1.2	$0.9V_{IN}$	1.24	1.5	–	200kHz	100	<1	TSSOP-16E	H	60V Operation and I_Q=100µA	$4.00
LT1977	3.3	60	1.2	$0.9V_{IN}$	1.24	1.5	–	500kHz	100	<1	TSSOP-16E	I	60V Operation and I_Q=100µA	$4.00
LTC3411/A	2.5	5.5	0.8	V_{IN}	1.25	1.6	yes	300kHz to 4MHz	60	<1	3×3 DFN-10, MSOP-10	I	Synchronous, 100% Duty Cycle, 95% Efficiency. "Plain" Version Has 2.625V Minimum V_{IN}	$2.00
LTC3417/A	2.25	5.5	0.8	V_{IN}	1.4 & 0.8/ 1.5 & 1.0	1.8	yes	600kHz to 4MHz	125	<1	TSSOP-20E, 3×5 DFN-20	E	Dual Synchronous, 100% Duty Cycle, 95% Efficiency	$3.45
LTC3417A-x	2.25	5.5	0.8	V_{IN}	1.5/1.0	1.8	yes	600kHz to 4MHz	125	<1	TSSOP-20E, 5×3 DFN-20	I	Dual Synchronous, 100% Duty Cycle, 95% Efficiency, Low Ripple Burst Mode Operation. "A-1" Has POR. "A-2" Has PGOOD.	$2.93
LTC1875	2.7	6	0.8	V_{IN}	1.5	1.6	yes	550kHz	15	<1	TSSOP-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency, Integrated PLL	$3.35
LTC3568	2.5	5.5	0.8	V_{IN}	1.8	2.4	yes	850kHz to 4MHz	60	<1	3×3 DFN-10	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$2.95
LT3480	3.6	38/60	0.79	$0.9V_{IN}$	2.0	3.0	–	260kHz to 2MHz	70	<1	3×3 DFN-10, MSOP-10E	I	Transient Protection to 60V, 2A Continuous Inductor Current Operation, Micropower	$3.45
LT3481	3.5	34	1.265	$0.9V_{IN}$	2.0	3.2	–	2.8MHz	50	<1	3×3 DFN-10, MSOP-10	I	2A, Micropower Part	$3.25
LT3681	3.6	34	1.265	20	2.0	3.2	–	300kHz to 2.8MHz	50	<1	4×3 DFN-14	I	34V, 2A Micropower Part with Internal Schottky Diode	$3.65
LT3434	3.3	60	1.2	$0.9V_{IN}$	2.4	3.0	–	200kHz	100	<1	TSSOP-16E	I	60V Input and I_Q=100µA	$5.25
LT3435	3.3	60	1.2	$0.9V_{IN}$	2.4	3.0	–	500kHz	100	<1	TSSOP-16E	I	60V Input and I_Q=100µA	$5.25
LTC3602	**4.5**	**10**	**0.6**	**V_{IN}**	**2.5**	**3.8**	**yes**	**300kHz to 3MHz**	**75**	**<1**	**TSSOP-16E, 4×4 QFN-20**	**I**	**Synchronous, 99% Duty Cycle, 95% Efficiency, Ideal for Two Series Li-Ion Batteries**	**$4.00**
LTC3603	**4.5**	**15**	**0.6**	**V_{IN}**	**2.5**	**3.8**	**yes**	**300kHz to 3MHz**	**75**	**<1**	**MSSOP-16E, 4×4 QFN-16**	**I**	**Synchronous, 99% Duty Cycle, 95% Efficiency, Ideal for 12V Inputs**	**$4.00**
LTC3412	2.5	5.5	0.8	V_{IN}	2.5	4.0	yes	300kHz to 4MHz	60	<1	TSSOP-16E, 4×4 QFN-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$3.95
LTC3413	2.5	5.5	V_{REF}/2	V_{REF}/2	3.0	3.8	yes	2MHz	60	<1	TSSOP-16E	E	QDR and DDR Applications Only, Can Sink/Source 3A	$3.95
LTC3412A	2.25	5.5	0.8	V_{IN}	3.0	4.5	yes	300kHz to 4MHz	64	<1	TSSOP-16E, 4×4 QFN-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$4.10
LT3680	3.6	36	0.79	$0.9V_{IN}$	3.5	4.6	–	250kHz to 2.4MHz	75	<1	3×3 DFN-10, MSOP-10E	I	36V Operation and I_Q=75µA	$4.15
LT3972	**3.6**	**33/62**	**0.79**	**30**	**3.5**	**4.6**	**–**	**200kHz to 2.4MHz**	**75**	**<1**	**3×3 DFN-10, MSOP-10E**	**E, I**	**62V Transient Protection, Micropower, Low Ripple Burst Mode Operation**	**$4.25**
LTC3414	2.3	5.5	0.8	V_{IN}	4.0	6.0	yes	300kHz to 4MHz	68	<1	TSSOP-20E	I	Synchronous, 100% Duty Cycle, 95% Efficiency	$4.25
LTC3416	2.3	5.5	0.8	V_{IN}	4.0	6.0	yes	300kHz to 4MHz	68	<1	TSSOP-20E	E	Tracking, Synchronous, 100% Duty Cycle, 95% Efficiency	$4.62
LTC3415	2.5	5.5	0.6	V_{IN}	7.0	11	yes	2.25MHz	450	<1	5×7 QFN-38	E	Stackable, Tracking, Synchronous, 100% Duty Cycle, 95% Efficiency	$6.50
LTC3418	2.3	5.5	0.8	V_{IN}	8.0	12.0	yes	300kHz to 4MHz	380	<1	5×7 QFN-38	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$6.75
LTC3608	**4**	**18**	**0.6**	**V_{IN}**	**8.0**	**8.0**	**yes**	**1MHz**	**900**	**<15**	**7×8 QFN-52**	**I**	**Synchronous, 99% Duty Cycle, 95% Efficiency, Ideal for 12V Inputs**	**$7.50**
LTC3611	4	32	0.6	V_{IN}	10	15	yes	1MHz	900	<15	9×9 QFN-64	I	32V, 10A Monolithic	$9.75
LTC3610	4	24	0.6	V_{IN}	12	15	yes	1MHz	900	<15	9×9 QFN-64	E	24V, 12A Monolithic	$8.50

† Primary Sort Column

Notes:
1. Approximate value. See data sheet for detailed information
2. Approximately 80% of Switch Current
3. COT = Constant Off Time

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

BUCK CONTROLLERS (STEP-DOWN)

Part Number	V_{IN} Min (V)	†† V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Max Output Current (A)	Synchronous	External SYNC[1]	Switching Frequency	No Sense Resistor	I_Q (I_{SUPPLY}) (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC1622	2	9.8	0.8	V_{IN}	5	–	yes	550kHz		270	MSOP-10	I	Synchronizable to 750kHz	$1.85
LTC1772/B	2.5	9.8	0.8	V_{IN}	5	–	–	550kHz		230/270	ThinSOT	E, I, H	"B" Version Disables Burst Mode Operation at Light Load	$2.70
LTC3772/B	2.75	9.8	0.6	$0.9V_{IN}$	5	–	–	550kHz	yes	40	3×2 DFN-8	E	Low I_Q, No R_{SENSE}™, "B" Disables Burst Mode Operation	$1.85
LTC3801/B	2.5	9.8	0.8	V_{IN}	5	–	–	550kHz		16/195	ThinSOT	E	Very Low Standby Current, LTC1772 Pin-Out, "B" Disables Burst Mode Operation	$1.95
LTC3808	2.75	9.8	0.6	V_{IN}	5	yes	yes	250kHz to 750kHz	yes	350	4×3 DFN-14, SSOP-16	E	Optional R_{SENSE}, Power Good Output, Tracking, Spread Spectrum Frequency Modulation	$2.60
LTC3809/1	2.75	9.8	0.6	V_{IN}	5	yes	yes	250kHz to 750kHz	yes	350	3×3 DFN-10, MSOP-10E	E	No R_{SENSE}, Spread Spectrum Frequency Modulation, "-1" Adds Tracking	$2.00
LTC3700	2.65	9.8	0.8	5	5/0.15	–	–	550kHz		210	MSOP-10	E	Controller with 150mA LDO	$2.35
LTC3736	2.75	9.8	0.6	V_{IN}	5×2	yes	yes	260kHz to 825kHz	yes	300	4×4 QFN-24, SSOP-24	E	Dual, 2-Phase, Output Tracking and Enhanced Gate Drivers. Burst Mode Operation at Light Loads	$3.80
LTC3736-1/-2	2.75	9.8	0.6	V_{IN}	5×2	yes	yes	260kHz to 825kHz	yes	500	4×4 QFN-24, SSOP-24	E	LTC3736 with Pulse-Skipping at Light Loads, "-1" Has Spread Spectrum Frequency Modulation	$4.40
LTC3776	2.75	9.8	0.3	V_{IN}	5×2	yes	yes	750kHz	yes	575	4×4 QFN-24	E	Dual, 2-Phase for DDR/QDR	$3.75
LTC3737	2.75	9.8	0.6	V_{IN}	5×2	–	yes	260kHz to 825kHz	yes	300	4×4 QFN, SSOP-24	E	Dual, 2-Phase, Output Tracking, Nonsynchronous	$3.65
LTC3701	2.5	10	0.8	V_{IN}	5×2	–	yes	300kHz to 750kHz		460	SSOP-16	E	Dual, Very Low V_{IN}, Non-Synchronous, Dual Outputs	$2.90
LTC1771	2.8	20	1.23	18	5	–	–	Constant Off-Time		10	MSOP-8, SO-8	I	Micropower Supply Current	$2.65
LT3742	3.5	30	0.8	V_{IN}	5×2	–	–	500kHz		5mA	4×4 QFN-24	E	100% Duty Cycle, High Output Voltage, Capacitor Charger	$2.30
LT3724	4.5	60	1.23	36	5	–	–	200kHz	yes	1.7mA	TSSOP-16	I	<100µA No-Load Current, also see LT3800	$3.10
LTC1773	2.65	8.5	0.8	V_{IN}	6	yes	yes	550kHz		400	MSOP-10	E	PMOS Top MOSFET	$4.10
LTC1649	2.7	6	1.265	$0.9V_{IN}$	10	yes	–	200kHz	yes	3mA	SO-16	I		$4.10
LTC3785/-1	2.7	10	2.7	10	10	yes	–	100kHz to 1MHz	yes	86	4×4 QFN-24	E	Buck-Boost, 96% Efficient, "-1" Adds Power Good Output	$3.56
LTC1143	3.5	16	1.25	V_{IN}	10×2	–	–	Variable		1.6mA	SO-16		Dual, See the LTC3850 or LTC3728 for Improved Performance and Smaller Design	$3.95
LTC1142	3.5	20	1.25	V_{IN}	10×2	yes	–	Variable		1.6mA	SSOP-28		Dual, See the LTC3850 or LTC3728 for Improved Performance	$4.65
LTC1438	3.5	36	1.19	9	10×2	yes	–	125kHz to 250kHz		320	SSOP-28, SSOP-36	I	Dual, See the LTC3850 or LTC3728 for Improved Performance	$7.00
LTC1439	3.5	36	1.19	9	10×2	yes	yes	125kHz to 250kHz		320	SSOP-28, SSOP-36	I	Dual, Phase-Lockable Version of the LTC1438; See the LTC3850 for Improved Performance	$5.90
LTC1538	3.5	36	1.19	9	10×2	yes	–	125kHz to 250kHz		320	SSOP-28, SSOP-36	I	Dual, See the LTC3850 or LTC3728 for Improved Performance and Smaller Design	$4.30
LTC1539	3.5	36	1.19	9	10×2	yes	yes	PLL: 125kHz to 250kHz		320	SSOP-28, SSOP-36	I	Dual, See the LTC3850 or LTC3728 for Improved Performance and Smaller Design	$4.80
LTC1624	3.5	36	1.19	$0.95V_{IN}$	10	–	–	200kHz		550	SO-8	I		$3.50
LTC1625	3.7	36	1.19	V_{IN}	10	yes	yes	150kHz	yes	500	SSOP-16	I	Excellent for No R_{SENSE} DC/DC Conversion Where V_{OUT} is Very Close to V_{IN} (Also See the LTC1778 and LTC3778)	$4.45
LTC1159	4.5	40	1.25	V_{IN}	10	yes	–	Variable		200	SO-16, DIP-16, SSOP-20	I	PMOS for Top MOSFET	$5.45
LTC3824	4	60	0.8	V_{IN}	10	–	yes	200kHz to 600kHz		40	MSOP-10	E, I, MP	100% Duty Cycle, Low Quiescent Current	$1.95
LT3844	4	60	1.23	36	10	–	yes	100kHz to 500kHz		120	TSSOP-16	E, I	60V Input, Low Quiescent Current	$3.10
LTC3703-5	4.1	60	0.8	$0.93V_{IN}$	10	yes	yes	100kHz to 600kHz	yes	1.7mA	SSOP-16, 28	E	Supports Use of External Logic N-Channel FETs	$3.10
LTC3703	9.3	100	0.8	$0.93V_{IN}$	10	yes	yes	100kHz to 600kHz	yes	1.7mA	SSOP-16, 28	E	Voltage Mode with Feedforward Compensation	$3.10
LTC1530	3.5	7	1.9	$0.86V_{IN}$	15	yes	–	300kHz	yes	15mA	SO-8	I	Fixed V_{OUT}: 1.8V, 2.5V, 2.8V, 3.3V	$3.05
LTC1430A	4.5	8	1.265	$0.9V_{IN}$	15	yes	–	200kHz	yes	350	SO-8, SSOP-16		See the LTC3830 for Improved Performance	$3.05
LTC3770	4.5	32	0.6	$0.9V_{IN}$	15	yes	yes	Constant On-Time	yes	1.3mA	5×5 QFN-32, SSOP-28	E	Margining, Tracking, External Synchronization	$3.55
LTC1435A	3.5	36	1.19	9	15	yes	–	Variable		280	SO-16	I	See the LTC1735 for Improved Performance	$4.15
LT3800	4	60	1.231	36	15	yes	–	200kHz		100	TSSOP-16	I	97% Efficiency; Also See LT3724	$3.10
LTC3822	2.75	4.5	0.6	$0.99V_{IN}$	20	yes	–	250kHz to 750kHz	yes	360	3×3 DFN-10, MSOP-10	E	Low Input Voltage	$1.55
LTC3822-1	2.75	4.5	0.6	$0.99V_{IN}$	20	yes		250kHz to 750kHz	yes	105	3×3 DFN-12, SSOP-16	E	Low Input Voltage, Selectable Burst Mode Operation/Pulse-Skipping	$1.75
LTC3836	2.75	4.5	0.6	$0.97V_{IN}$	20×2	yes	yes	250kHz to 750kHz	yes	450	4×5 QFN-24, SSOP-28	E	Dual, 3.3V Nominal Input Voltage	$2.75
LTC1704	3.15	6	0.8	6	20/2	yes	–	550kHz		4.5mA	SSOP-16	E	Synchronous Step-Down Controller and Linear Regulator Controller	$4.10
LTC1702A	3	7	0.8	7	20×2	–	–	550kHz	yes	2.2mA	SSOP-24	I	Dual, Voltage Mode, 2-Phase	$5.35
LTC3832	3	8	0.6	$0.91V_{IN}$	20	yes	–	100kHz to 500kHz	yes	700	SO-8	E	0.6V Reference	$3.10
LTC3830	3	8	1.265	$0.91V_{IN}$	20	yes	–	100kHz to 500kHz	yes	700	SO-8, SSOP-16	E	Shutdown Function	$3.05
LTC3830-1	3	8	1.265	$0.91V_{IN}$	20	yes	–	100kHz to 500kHz	yes	700	SO-8	E	Soft-Start	$3.05
LTC3831	3	8	1.265	$V_{IN}/2$	20	yes	–	100kHz to 500kHz	yes	700	SO-8, SSOP-16	E	Bus Termination: QDR, DDR, SSTL	$2.90
LTC3831-1	3	8	0.4	$V_{IN}/2$	20	yes	–	100kHz to 500kHz	yes	700	SO-8, SSOP-16	E	Bus Termination: for 0.75V QDR, DDR, SSTL	$2.90
LTC1698	6	12.6	1.233	6	20	yes	yes	4.5kHz		1.8mA	SO-16	I	Secondary Synchronous Rectifier Controller (Use LT3781 for Primary Side)	$5.30
LT3740	2.2	22	0.8	$0.77V_{IN}$	20	yes	–	300kHz	yes	2.5mA	5×3 DFN-16	E	Low Input Voltage, High Output Current, Boost Converter for Gate Drive, Drives 5V Logic Level MOSFETs	$1.95
LT3710	8	24.5	0.8	7	20	yes	yes	200kHz to 500kHz		12mA	TSSOP-16	E	Secondary Side Synchronous Post Regulator; Generates Auxillary Output in Isolated Supplies; Use with the LT3781, LTC1698	$3.95
LTC3823	4.5	30	0.6	3.3	20	yes	yes	Variable	optional	1.4mA	5×5 QFN-32, SSOP-28	E	Differential Amplifier For Remote Output Voltage Sensing	$2.75

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min (V)	†† V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Max Output Current (A)	Synchronous	External SYNC[1]	Switching Frequency	No Sense Resistor	I_Q (I_{SUPPLY}) (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3802	3	30	0.6	$0.9V_{IN}$	20	yes	yes	330kHz to 750kHz	yes	6mA	5×5 QFN-32, SSOP-28	E	Dual, 2-Phase Synchronous Controller with Programmable Up/Down Tracking	$4.80
LTC3811	4.5	30	0.6	3.3	20×2 or 40	yes	yes	150kHz to 900kHz	yes	10.5mA	5×7 QFN-38, SSOP-36	E	PolyPhase Single or Dual, No R_{SENSE}, Diff Amplifier	$3.75
LTC3834	4	36	0.8	10	20	yes	yes	140kHz to 650kHz		30	4×5 QFN-20, TSSOP-20	E, I	Low Quiescent Current (30µA)	$3.88
LTC3834-1	4	36	0.8	10	20	yes	yes	140kHz to 650kHz		30	5×3 DFN-16, SSOP-16	E, I	LTC3834 with No PGOOD, $EXTV_{CC}$ or CLOCKOUT Pins	$3.69
LTC3835	4	36	0.8	10	20	yes	yes	140kHz to 650kHz		80	4×5 QFN-20, TSSOP-20	E, I	Low Quiescent Current (80µA)	$3.55
LTC3835-1	4	36	0.8	10	20	yes	yes	140kHz to 650kHz		80	3×5 DFN-16, SSOP-16	E	LTC3835 with No PGOOD, $EXTV_{CC}$ or CLOCKOUT Pins	$3.40
LTC3773	3.3	36	0.6	5	20×3	yes	yes	160kHz to 700kHz		2.8mA	5×7 DFN-38, SSOP-36	E	Triple Output 3-Phase Controller with Tracking	$3.95
LTC3732	4.5	36	0.8	5.25	20×3 or 60	yes	yes	250kHz to 600kHz		2.3mA	SSOP-28		3-Phase Operation	$4.35
LTC1628	4.5	36	0.8	7	20×2	yes	–	150kHz to 300kHz		470	5×5 QFN-32, SSOP-28	I	Dual, 2-Phase	$4.45
LTC1628-PG	4.5	36	0.8	7	20×2	yes	–	150kHz to 300kHz		470	SSOP-28	I	Power Good Output Signal	$4.65
LTC1628-SYNC	4.5	36	0.8	7	20×2	yes	yes	150kHz to 300kHz		470	SSOP-28	I	PLL/Synchronizable	$4.65
LTC1735	3.5	36	0.8	7	20	yes	–	200kHz to 600kHz		450	SSOP-16, TSSOP-20	I	Capacitor Sets Operating Frequency; Power Good Signal (TSSOP only)	$3.10
LTC1735-1	3.5	36	0.8	7	20	yes	–	200kHz to 600kHz		450	SSOP-16, SO-16	I	LTC1735 with Power Good But No Forced-Continuous/SYNC Pin	$3.20
LTC1775	3.7	36	1.19	V_{IN}	20	yes	yes	150kHz	yes	500	SSOP-16	I	Excellent for No R_{SENSE} DC/DC Conversion Where V_{OUT} is Very Close to V_{IN} (Also See the LTC1778 and LTC3778)	$4.65
LTC1778/-1	4.5	36	0.8	$0.9V_{IN}$	20	yes	–	Adjustable	yes	900	SSOP-16	E	Excellent for High V_{IN} to Low V_{OUT} No R_{SENSE} DC/DC Conversion. "-1" Has Adjustable Top Gate ON-Time	$2.70
LTC3713	1.5	36	0.8	$0.9V_{IN}$	20	yes	–	200kHz to 1.5MHz		900	SSOP-24	E	Provides Its Own 5V for N-CH MOSFET Gate Drive	$4.10
LTC3717/-1	4.5	36	0.7	$V_{REF}/2$	20	yes	–	200kHz to 1.5MHz		1mA	SSOP-16 ("Plain"), 5×5 QFN-32 ("1")	E	Bus Termination: QDR, DDR, SSTL. "-1" Has Optional Sense Resistor and Settable Top Gate On-Time	$2.95
LTC3718	1.5	36	0.7	$V_{REF}/2$	20	yes	–	200kHz to 1.5MHz		1mA	SSOP-24	E	Bus Termination: QDR, DDR, SSTL; Very Low Input Voltage; On-Chip Boost Converter for Top Gate High-Side Drive	$3.45
LTC3778	4.5	36	0.6	$0.9V_{IN}$	20	yes	–	Constant On-Time	optional	900	SSOP-20	E	Current Mode, Optional R_{SENSE}	$3.35
LTC3780	4.5	36	0.8	30	20	yes	yes	200kHz to 400kHz		2.4mA	5×5 QFN-32, SSOP-24	I	Buck-Boost, 98% Efficient, Single Inductor	$4.65
LT3845	4	60	1.23	36	20	yes	yes	100kHz to 500kHz		100	TSSOP-16	E, I	60V Input, Low Quiescent Current	$3.56
LT1681	9	72	1.25	$0.9V_{IN}$	20	yes	yes	350kHz		17mA	SO-20	I	Dual Transistor Synchronous Forward Controller	$5.00
LT3781	8	72	1.25	V_{IN}	20	yes	yes	350kHz		17mA	SSOP-20	I	Bootstrap Start Dual Transistor Synchronous Forward Controller	$4.95
LTC3850	4	24 or 30	0.8	5.5	25×2	yes	yes	250kHz to 750kHz	optional	850	4×4 QFN-28, 4×5 QFN-28, SSOP-28	E, I	Dual, Tracking, PLL, Synchronizable and Adjustable Soft-Start. "I" Temp Grade Has 28V Operational and 30V Abs Max	$2.40
LTC3853	4	24	0.8	5.5	25×3	yes	yes	250kHz to 750kHz	yes	1mA	6×6 QFN-40	E, I	Triple Output, High Frequency, with Tracking, DCR Current Sense, Powerful Onboard Drivers and Synchronizable	$3.53
LTC3850-1/-2	4	24 or 30	0.8	5.5	25×2	yes	yes	250kHz to 750kHz	optional	850	SSOP-28	E, I	LTC3850 with I_{LIM} Replaced by $EXTV_{CC}$ in SSOP Package. "2" Has High Reliability Pinout	$2.40
LTC3728LX	4.5	28	0.8	5.5	25×2	yes	yes	≤550kHz		450	5×5 QFN-32, SSOP-28		Dual, ±1.5% Reference Voltage Accuracy, 0°C to 85°C Operation, Latch-off Current Limit	$4.30
LTC3728L/-1	4.5	28/35	0.8	5.5	25×2	yes	yes	≤550kHz		450	5×5 QFN-32, SSOP-28	E, I	Dual, Foldback Current Limit Defeated For "-1" Version. "LI-1" Has 35V Max V_{IN}	$4.65
LTC3728LC	4.5	28	0.8	5.5	25×2	yes	yes	≤550kHz		450	5×5 QFN-32, SSOP-28		LTC3728L with 1% Reference Voltage Accuracy. 0°C to 85°C Operation	$4.40
LTC3707/-SYNC	4	30	0.8	6	25×2	yes	-/yes	100kHz to 300kHz		350	SSOP-28	E, I	Dual, 99% Duty Cycle, Low V_{IN}	$4.45
LTC3828	4.5	30	0.8	7	25×2	yes	yes	≤550kHz		2mA	5×5 QFN-32, SSOP-28	E	Dual, Onboard Tracking; Up to 6-Phase Operation	$4.65
LTC3727LX-1	4	32	0.8	14.5	25×2	yes	yes	≤550kHz		1mA	5×5 QFN-32, SSOP-28	E	Dual, Output Latch Disabled	$4.35
LTC3727/-1	4	36	0.8	14.5	25×2	yes	yes	≤550kHz		670	5×5 QFN-32, SSOP-28	E, I	Dual, >5V V_{OUT}; "-1" Disables Output Short Circuit Latch and Has 5×5 QFN-32 Pkg Option	$4.85
LTC3727A-1	4	36	0.8	14.5	25×2	yes	yes	≤550kHz		670	SSOP-28	E	Dual, Improved LTC3727 (Lower V_{OUT} Ripple, Shorter t_{ON}(min))	$4.85
LTC3728	4.5	36	0.8	5.5	25×2	yes	yes	≤550kHz		450	5×5 QFN-32, SSOP-28	E, I	Dual, Small Package, High Frequency	$5.00
LTC1876	3.5	36	0.8	7	25×3	yes	yes	150kHz to 300kHz		350	SSOP-36	E	Triple, Very Low V_{IN}, High Output Power	$5.95
LTC3827	4	36	0.8	10	25×2	yes	yes	140kHz to 650kHz		115	5×5 QFN-32	E, I	Dual, Low I_Q; Continuous, Pulse-Skipping, or Low Ripple Burst Mode Operation	$5.10
LTC3827-1	4	36	0.8	10	25×2	yes	yes	140kHz to 650kHz		115	SSOP-28	E, I	LTC3827 with No Phase Mode, CLKOUT, PGOOD2 or FoldBack Disable Pins	$5.00
LTC3826	4	36	0.8	10	25×2	yes	yes	140kHz to 650kHz		50	5×5 QFN-32	E, I	Dual, Ultralow I_Q (50µA); Selectable Continuous, Pulse-Skipping, or Low Ripple Burst Mode Operation	$5.50
LTC3826-1	4	36	0.8	10	25×2	yes	yes	140kHz to 650kHz		50	SSOP-28	E, I	LTC3826 with No Phase Mode, CLKOUT, PGOOD2 or FoldBack Disable Pins	$5.38
LTC3878	**4**	**38**	**0.8**	**$0.9V_{IN}$**	**25**	**yes**	**–**	**Adjustable**	**yes**	**1.5mA**	**SSOP-16**	**E, I**	**Fast Transient Response, PGOOD Pin, Similar to LTC1778 But with Wider V_{IN} Range and No $EXTV_{CC}$.**	**$2.20**
LTC3879	4	38	0.6	$0.9V_{IN}$	25	yes	–	Adjustable	yes	1.5mA	MSOP-16, 3×3 QFN-16	E, I	Same as LTC3878 But with Tracking.	$2.35

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

BUCK CONTROLLERS (STEP-DOWN)

Part Number	V_{IN} Min (V)	†† V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Max Output Current (A)	Synchronous	External SYNC[1]	Switching Frequency	No Sense Resistor	I_Q (I_{SUPPLY}) (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3851/-1	4	38	0.8	5.5	25	yes	yes	250kHz to 780kHz	yes	1mA	3×3 QFN-16, SSOP-16, MSOP-16E	E, I	Wide Input Voltage Range, High Frequency, with Tracking, DCR Current Sense, Powerful Onboard Drivers and Synchronizable. "-1" Version Has PGOOD (vs. I_{LIM})	$1.71
LTC3812-5	4.2	60	0.8	$0.93V_{IN}$	25	yes	–	100kHz to 1MHz	optional	3mA	TSSOP-16E	E, I	60V, Fast Transient Response, Strong Gate Drivers for Logic Level FETs	$3.25
LTC3810-5	4.2	60	0.8	$0.93V_{IN}$	25	yes	yes	100kHz to 1MHz	optional	3mA	5×5 QFN-32	E, I	60V, Fast Transient Response, Strong Gate Drivers for Logic Level FETs, Tracking, Synchronizable and Adj. UVLO	$3.38
LTC3810	6.2	100	0.8	$0.93V_{IN}$	25	yes	yes	100kHz to 1MHz	optional	3mA	SSOP-28	E, I	100V, Fast Transient Response, Strong Gate Drivers, Tracking, Synchronizable and Adj. UVLO	$3.50
LTC3708	4.5	36	0.6	$0.9V_{IN}$	30×2	yes	yes	85ns t_{ON} min	yes	2.4mA	5×5 QFN-32	E	Dual, Output Tracking; Fast Transient Response	$4.80
LT1339	9	60	1.25	$0.9V_{IN}$	30	yes	yes	150kHz		14mA	SO-20	I	60V Input Voltage; Synchronizable	$4.85
LTC1922-1	3.8	10.3	5	5	40	yes	yes	≤1MHz		7mA	SSOP-20, DIP-20	E	Synchronous Phase-Modulated Full-Bridge Controller; Adaptive DirectSense Zero Voltage Switching	$3.05
LTC3709	5	31	0.6	$0.9V_{IN}$	40	yes	yes	200kHz	yes	2.4mA	5×5 QFN-32	E	With Tracking and Sequencing	$4.80
LTC1929	4.5	36	0.8	5.25	40	yes	yes	150kHz to 300kHz		470	SSOP-28	I	2-Phase Operation; Great Thermal Management	$4.25
LTC3732	4.5	36	0.8	5.25	60 or 20×3	yes	yes	250kHz to 600kHz		2.3mA	SSOP-28		3-Phase Operation	$4.35
LTC3811	4.5	30	0.6	3.3	240	yes	yes	150kHz to 900kHz	yes	10.5mA	5×7 QFN-38, SSOP-36	E	Single or Dual, No R_{SENSE}, Diff Amplifier, PolyPhase® - Up to 12 Phases	$3.75
LTC3729L-6	4.5	30	0.6	5.25	240	yes	yes	250kHz to 550kHz		450	SSOP-28	E	LTC3729 with 0.6V Reference	$5.60
LTC3731	4	36	0.6	5.25	240	yes	yes	250kHz to 600kHz		2.3mA	5×5 QFN-32, SSOP-36	E, I, H	PolyPhase Operation	$4.35
LTC3729	4.5	36	0.8	5.25	240	yes	yes	250kHz to 550kHz		450	SSOP-28	E	PolyPhase Operation (Up to 12 Phases), No Heat Sink	$5.80
LTC1629	4.5	36	0.8	5.25	240	yes	yes	150kHz to 300kHz		470	SSOP-28	I	PolyPhase Operation (Up to 12 Phases), No Heat Sink	$5.95
LTC1629-6	4.5	36	0.6	5.25	240	yes	yes	150kHz to 300kHz		470	SSOP-28	I	PolyPhase Operation with 0.6V Reference Voltage	$5.95

† Primary Sort Column
†† Secondary Sort Column

Note:
1. External Frequency Synchronization

MICROPOWER BUCK CONTROLLERS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Max Output Current (A)	Synchronous	Dual Output	Switching Frequency	No Sense Resistor	I_Q (I_{SUPPLY}) (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3772	2.75	9.8	0.6	$0.9V_{IN}$	5	no		550kHz	yes	40	3×2 DFN-8	E	Low I_Q, No Current Sense Resistor	$1.85
LTC3801	2.5	9.8	0.8	V_{IN}	5	no		550kHz		16	ThinSOT	E	Very Low Standby Current, LTC1772 Pin-Out	$1.95
LTC3808	2.75	9.8	0.6	V_{IN}	5	yes		250kHz to 750kHz	yes	105	3×4 DFN-14, SSOP-16	E	Low EMI, Spread Spectrum with Tracking. Optional R_{SENSE}	$2.60
LTC3809	2.75	9.8	0.6	V_{IN}	5	yes		250kHz to 750kHz	yes	105	3×3 DFN-10, MSOP-10E	E	Low EMI, Spread Spectrum, No R_{SENSE}	$2.50
LTC3809-1	2.75	9.8	0.6	V_{IN}	5	yes		500kHz	yes	105	3×3 DFN-10, MSOP-10E	E	Low Input Voltage with Tracking	$2.50
LTC1771	2.8	20	1.23	18	5	no		Constant Off-Time		10	MSOP-8, SO-8	I	Micropower Supply Current	$2.65
LT3724	4	60	1.23	36	5	no		200kHz		80	TSSOP-16	E, I	High Voltage, Medium Power, Fixed Frequency	$3.10
LTC1773	2.65	8.5	0.8	V_{IN}	6	no		500kHz to 750kHz		80	MSOP-10	E	Synchronizable, 100% Duty Cycle	$2.50
LTC3785	2.7	10	2.7	10	10	yes		100kHz to 1MHz	yes	86	4×4 QFN-24	E	Buck-Boost, 96% Efficient, Single Inductor	$3.56
LTC3785-1	2.7	10	2.7	10	10	yes		100kHz to 1MHz	yes	86	4×4 QFN-24	E	Buck-Boost, 96% Efficient, Single Inductor, with Power Good Output	$3.75
LTC3824	4	60	0.8	V_{IN}	10	no		200kHz to 600kHz		40	MSOP-10	E, I, MP	100% Duty Cycle, Small Package	$1.95
LT3844	4	60	1.23	36	10	no		100kHz to 500kHz		120	TSSOP-16	E, I	High Voltage Low Quiescent Current	$3.10
LT3800	4	60	1.23	36	20	yes		200kHz		100	TSSOP-16	I	High Voltage, Fixed Frequency	$3.10
LTC3834	4	36	0.8	10	20	yes		140kHz to 650kHz		30	4×5 QFN-20, TSSOP-20	E, I	Low Quiescent Current	$3.88
LTC3834-1	4	36	0.8	10	20	yes		140kHz to 650kHz		30	3×5 DFN-16, SSOP-16	E, I	LTC3834 without PGOOD, $EXTV_{CC}$, CLOCKOUT or Phase Mode Pins	$3.69
LTC3835	4	36	0.8	10	20	yes		140kHz to 650kHz		80	4×5 QFN-20, TSSOP-20	E	Low Quiescent Current	$3.55
LTC3835-1	4	36	0.8	10	20	yes		140kHz to 650kHz		80	3×5 DFN-16, SSOP-16	E, I	LTC3835 with No P_{GOOD}, $EXTV_{CC}$ or CLOCKOUT Pins	$3.40
LT3845	4	60	1.23	36	20	yes		100kHz to 500kHz		120	TSSOP-16	E, I	High Voltage, Low Quiescent Current	$3.55
LTC3826	4	36	0.8	10	25	yes	yes	140kHz to 650kHz		50	5×5 QFN-32	E	Ultralow I_Q, Selectable Continuous, Pulse-Skipping, or Low Ripple Burst Mode Operation	$5.50
LTC3826-1	4	36	0.8	10	25	yes	yes	140kHz to 650kHz		50	SSOP-28	E	Leaded Package Version of LTC3826	$5.38
LTC3827	4	36	0.8	10	25	yes	yes	140kHz to 650kHz		115	5×5 QFN-32	E	Low I_Q, Selectable Continuous, Pulse-Skipping, or Low Ripple Burst Mode Operation	$5.10
LTC3827-1	4	36	0.8	10	25	yes	yes	140kHz to 650kHz		115	SSOP-28	E, I	Leaded Package Version of LTC3827	$5.00

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† # of V_{OUT}	Number of Phases	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	†† Output Current (A)	I_Q (µA)	Frequency Per Phase	No Sense Resistor	Package	Extended Temp Range	Comments	Price 1K Qty
LT3782/A[1]	1	2	6	40	$>V_{IN}$	–[1]	30	11mA	150kHz to 500kHz		SSOP-28	E, I	2-Phase Operation; High Power, High Efficiency. "A" Grade Has Tighter Current Sense Mismatch Tolerance	$4.53
LTC1929	1	2	4	36	0.8	5.25	40	470	150kHz to 300kHz		SSOP-28	I		$4.25
LTC3709	1	2	5	31	0.6	$0.9V_{IN}$	40	2.4mA	200kHz	x	5×5 QFN-32	E	With Tracking and Sequencing	$4.80
LTC3862/-1[1]	1	2 to 12	4/8.5	36	$>V_{IN}$	–[1]	10 to 90	1.8mA	50kHz to 650kHz		SSOP-24, 5×5 QFN-24, TSSOP-24	E, I, H	Multiphase Step-Up Controller. "-1" Has Higher 10V Gate Drive and Higher Min V_{IN}	$3.29
LT3742	2	2	3.5	30	0.8	V_{IN}	5×2	5mA	500kHz		4×4 QFN-24	E	100% Duty Cycle, High Output Voltage, Capacitor Charger	$2.30
LTC3736	2	2	2.75	9.8	0.6	V_{IN}	5×2	300	260kHz to 825kHz	x	4×4 QFN-24, SSOP-24	E	Output Tracking	$3.80
LTC3737	2	2	2.75	9.8	0.6	V_{IN}	5×2	300	260kHz to 825kHz	x	4×4 QFN-24, SSOP-24	E	Non-Synchronous, Output Tracking	$3.65
LTC3701	2	2	2.5	10	0.8	V_{IN}	5×2	460	300kHz to 750kHz		SSOP-16	E	Very Low V_{IN}, Non-Synchronous	$3.40
LTC3836	2	2	2.75	4.5	0.6	$0.97V_{IN}$	20×2	450	300kHz to 750kHz	x	4×5 QFN-28, SSOP-28	E	3.3V Nominal V_{IN}—High Current Outputs	$2.75
LTC1628	2	2	4	36	0.8	7	20×2	350	150kHz to 300kHz		5×5 QFN-32, SSOP-28	I		$4.45
LTC1628-PG	2	2	4	36	0.8	7	20×2	350	150kHz to 300kHz		SSOP-28	I	Power Good Output Signal	$4.65
LTC1628-SYNC	2	2	4	36	0.8	7	20×2	350	150kHz to 300kHz		SSOP-28	I	PLL/Synchronizable	$4.65
LTC1702A	2	2	3	7	0.8	7	20×2	2.2mA	550kHz	x	SSOP-24	I	Voltage Mode	$4.75
LTC3802	2	2	3	30	0.6	V_{IN}×0.9	20×2	6.5mA	330kHz to 750kHz	x	5×5 QFN-32, SSOP-28	E	Programmable Up/Down Tracking	$4.80
LTC3727/-1	2	2	4	36	0.8	14	20×2	670	150kHz to 300kHz		SSOP-28, 5×5 QFN-32 ("-1")	E, I	>5V Output Voltage Range; "-1" Disables Overcurrent Latch-Off	$4.85
LTC3707	2	2	4	30	0.8	6	25×2	350	150kHz to 300kHz		SSOP-28	E, I	99% Duty Cycle, Low V_{IN}	$4.45
LTC3707-SYNC	2	2	4	28	0.8	6	25×2	350	150kHz to 300kHz		SSOP-28	E, I	Synchronizable Version	$4.88
LTC1876	2	2	2.6	36	0.8	7	25×2	350	150kHz to 300kHz		SSOP-36	E	Very Low V_{IN}, High Output Power	$5.95
LTC3727A-1	2	2	4	36	0.8	14	25×2	670	150kHz to 300kHz		SSOP-28	E	Lower Dropout, 120ns On-Time	$4.85
LTC3850	2	2	4	24, 30	0.8	5.5	25×2	850	250kHz to 750kHz	x	4×4 QFN-28, 4×5 QFN-28 SSOP-28	E, I	Tracking, PLL, Synchronizable and Adjustable Soft-Start	$2.40
LTC3850-1	2	2	4	24, 30	0.8	5.5	25×2	850	250kHz to 750kHz	x	SSOP-28	E, I	LTC3850 with I_{LIM} replaced by $EXTV_{CC}$, SSOP Package	$2.40
LTC3728	2	2	3.5	36	0.8	5.25	25×2	450	250kHz to 550kHz		5×5 QFN-32, SSOP-28	E, I	36V Input Voltage	$5.10
LTC3728L/LC/LXC	2	2	4	28	0.8	5.25	25×2	450	260kHz to 550kHz		5×5 QFN-32, SSOP-28	E, I	Small Package, High Frequency; LXC and LC Operate from 0°C to 85°C, L and LXC Have Relaxed V_{REF} Accuracy	$4.55
LTC3728L-1	2	2	4	28, 35	0.8	5.25	25×2	450	140kHz to 650kHz		5×5 QFN-32, SSOP-28	E	Overcurrent Latch-Off Disabled. "LI-1" Has 35V Max V_{IN}	$4.55
LTC3827	2	2	4	36	0.8	10	25×2	115	140kHz to 650kHz		5×5 QFN-32	E, I	Low I_Q with PolyPhase	$5.10
LTC3827-1	2	2	4	36	0.8	10	25×2	115	140kHz to 650kHz		SSOP-28	E, I	Low I_Q with Both Channels Active	$5.00
LTC3826	2	2	4	36	0.8	10	25×2	50	140kHz to 650kHz		5×5 QFN-32	E, I	Ultralow I_Q with Both Channels Active	$5.50
LTC3826-1	2	2	4	36	0.8	10	25×2	50	140kHz to 650kHz		SSOP-28	E, I	Ultralow I_Q with PolyPhase	$5.38
LTC3828	2	2 to 6	4	30	0.8	7	25×2	2mA	550kHz		5×5 QFN-32,SSOP-28	E	Onboard Tracking	$4.65
LTC3708	2	2	4	36	0.6	V_{IN}×0.9	30×2	2.4mA	85ns t_{ON} Min	x	5×5 QFN-32	E	Output Tracking, Fast Transient Response	$4.80
LTC3773	1 to 3	3	3.3	36	0.6	5	20×3	1mA	160kHz to 700kHz		5×7 QFN-38, SSOP-36	E	Triple Output 3-Phase Controller with Tracking	$3.95
LTC3853	3	3	4	24	0.8	5.5	25×3	4.1mA	250kHz to 750kHz	x	6×6 QFN-40	E, I	Triple Output with Tracking, PLL and Adjustable Soft-Start	$3.53
LTC3731	1 to 4	3 to 12	4	36	0.6	5.25	60 to 200	2.3mA	250kHz to 600kHz		5×5 QFN-32, SSOP-36	E, I	Scalable PolyPhase DC/DC Controller	$4.35
LTC3731H	1 to 4	3 to 12	4	36	0.6	5.25	60 to 200	2.3mA	250kHz to 600kHz		SSOP-36	H	-40°C to 125°C Operation	$5.00
LTC3729	1 to 6	2 to 12	4	36	0.8	5.25	40 to 200	450	<=550kHz		5×5 QFN-32, SSOP-28	E	Scalable PolyPhase DC/DC Controller	$5.80
LTC3729L-6	1 to 6	2 to 12	4	30	0.6	5.25	40 to 200	450	<=550kHz		5×5 QFN-32, SSOP-28	E	0.6V Reference Voltage	$5.60
LTC1629/-6	1 to 6	2 to 12	4	36	0.8/0.6	5.25	40 to 200	470	150kHz to 300kHz		SSOP-28	E	Scalable PolyPhase DC/DC Controller. "-6" Has 0.6V V_{REF}	$5.95
LTC1629-PG	1 to 6	2 to 12	4	36	0.8	5.25	40 to 200	470	150kHz to 300kHz		SSOP-28	E	Power Good Output Signal	$5.95
LTC3811	1 to 12	2 to 12	4.5	30	0.6	3.3	20 to 200	10.3mA	150kHz to 900kHz	x	5×7 QFN-38, SSOP-36	E	Dual or Single Output, Polyphase	$3.75

† Primary Sort Column
†† Secondary Sort Column

Note:
1. Boost controller – voltage and current depend on the choice of external components

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

ACTIVE BUS TERMINATORS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Output Current (A)	Switch Configuration	Switching Frequency	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3413	2.5	6	0.7	$V_{REF}/2$	3	Integrated Synchronous	300kHz to 2MHz	TSSOP-16	E	Adjustable Switching Frequency, QDR, DDR, SSTL Termination	$3.95
LTC3776	2.8	9.8	0.6	$V_{REF}/2$	4	Dual External Synchronous	550kHz to 750kHz	4×4 QFN-24, NSSOP-24	E	Dual Phase, Second Output (V_{TT}) = 1/2* V_{OUT1}	$3.75
LTC3718	1.5	36	0.7	$V_{REF}/2$	20	External Synchronous	200kHz to 1.5MHz	SSOP-24	E	Very Low Input Voltage; Provides Its Own 5V N-CH MOSFET Gate Drive; Current Mode	$3.45
LTC3717	4	36	0.7	$V_{REF}/2$	20	External Synchronous	200kHz to 1.5MHz	SSOP-16	E	Current Mode; DDR/QDR SSTL, HSTL Termination; "Plain" Has $V_{OUT} = ½V_{IN}$; "-1" Has $V_{OUT} = ½V_{REF}$	$2.95
LTC3831	3	8	0.7	$V_{REF}/2$	20	External Synchronous	100kHz to 500kHz	SSOP-16	E, I	Voltage Mode, DDR/QDR Memory Termination	$2.90
LTC3831-1	3	8	0.4	$V_{REF}/2$	20	External Synchronous	100kHz to 500kHz	SSOP-16	E	Voltage Mode, for 0.75V Termination Voltage	$2.90

† Primary Sort Column

DIGITALLY PROGRAMMABLE DC/DC CONVERTERS

Part Number	VRM	# of Outputs	Interface	PolyPhase Operation	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Output Current (A)	Switch Configuration	Package	Extended Temp Range	Price 1K Qty
LTC3445		3	SMBus/I²C		2.5	5.5	0.69	2.05	0.6	Internal, Synchronous	4×4 QFN-24	E	$2.45
LTC3447		1	SMBus/I²C		2.5	5.5	0.85	1.55	0.6	Internal, Synchronous	3×3 DFN-10	E	$2.25
LTC1705	Mobile	3	VID		3.15	5.5	0.9	2	20	External, Synchronous	SSOP-28	E	$5.35
LTC1736	Mobile	1	VID		4	36	0.9	2	20	External, Synchronous	SSOP-24	I	$3.10
LTC1753	VRM8.4	1	VID		4.7	12	1.3	3.5	20	External, Synchronous	SSOP-20		$2.80
LTC3711	Mobile	1	VID		4	36	0.9	2	20	External, Synchronous	SSOP-24	E	$3.50
LTC3714	Mobile	1	VID		4	36	0.6	1.75	20	External, Synchronous	SSOP-28	E	$3.05
LTC3716	Mobile	1	VID		4	36	0.6	1.75	20	External, Synchronous	SSOP-36	E	$4.35
LTC3720	VRM8.5	1	VID	yes	4	36	1.05	1.825	20	External, Synchronous	SSOP-28	E	$3.05
LTC3734	Centrino, Banias	1	VID		4	36	0.7	1.71	20	External, Synchronous	5×5 QFN-32	E	$3.05
LTC1909-8	–	1	SMBus/I²C		4	36	1.3	3.5	25	External, Synchronous	SSOP-28	E	$5.05
LTC1703	Mobile	2	VID	yes	3	7	0.9	2	25×2	External, Synchronous	SSOP-28	I	$5.20
LTC1708	Mobile	2	VID	yes	4	36	0.9	2	25×2	External, Synchronous	SSOP-36	E	$4.60
LTC1873	VRM8.4	2	VID	yes	2.7	7	1.3	3.5	25×2	External, Synchronous	SSOP-28	E	$5.20
LTC1709-7	Mobile	1	VID	yes	4	36	0.9	2	40	External, Synchronous	SSOP-36	E, I	$4.75
LTC1709-8	VRM8.4	1	VID	yes	4	36	1.3	3.5	40	External, Synchronous	SSOP-36	E, I	$4.75
LTC1709-85	VRM8.5	1	VID	yes	4	36	1.05	1.825	40	External, Synchronous	SSOP-36	E, I	$4.75
LTC1709-9	VRM9.0	1	VID	yes	4	36	1.1	1.85	40	External, Synchronous	SSOP-36	E, I	$4.75
LTC3719	AMD Hammer	1		yes	4	36	0.8	1.55	40	External, Synchronous	SSOP-36	E	$4.35
LTC3735	Centrino, Banias	1	VID	yes	4	36	0.7	1.71	40	External, Synchronous	SSOP-36	E	$4.45
LTC3730	VRM9.X	1	VID	yes	4	36	0.6	1.75	60	External, Synchronous	SSOP-36	E	$4.35
LTC3733	AMD Hammer	1	VID	yes	4	36	0.8	1.55	60	External, Synchronous	SSOP-36	E	$4.35
LTC3732	VRM9.0, VRM9.1	1	VID	yes	4	36	1.1	1.85	60	External, Synchronous	SSOP-36	E	$4.35
LTC3738	VRM9/10	1	VID	yes	4	28	0.84	1.6	60	External, Synchronous	7×5 QFN-32	E	$4.65
LTC3819	–	1	SUN VID	yes	4	36	1.025	1.4125	60	External, Synchronous	SSOP-36	E	$2.45
LTC1699	Mobile, VRM 8.4, VRM 9.0		SMBus/I²C				0.9	2	–	SMBus VID Programmer	MSOP-8, SSOP-16	E	$2.15
LTC1706-81	VRM8.4						1.3	3.5	–	VID Programmer	MSOP-10	E, I	$2.05
LTC1706-82	VRM9.0						1.1	1.85	–	VID Programmer	MSOP-10	E, I	$2.05
LTC1706-85	VRM8.5						1.05	1.825	–	VID Programmer	MSOP-10	E, I	$2.05

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min Operating[1, 2] (V)	V_{IN} Min Start-Up[2] (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current[3] (A)	† Switch Current (A)	Synchronous	Switching Frequency[4]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT8410		**2.5**	**16**	**40**	**0.013 * V_{IN}/V_{OUT}**	**0.006/0.02**	**–**	**VOT**	**8.5**	**<1**	**2×2 DFN-8**	**E, I**	**Integrated Schottky, Output Disconnect, 0µA Shutdown Current, OV Protection, Comparator on SHDN Pin. "-1" Has Reduced 6mA Switch Current**	**$1.75**
LTC3459		1.5	5.5	10	0.05 * V_{IN}/V_{OUT}	0.08	yes	COT	10	<1	ThinSOT	E	Synchronous Rectification, and Output Disconnect	$1.95
LT1615-1		1	15	36	0.07 * V_{IN}/V_{OUT}	0.1	–	COT	20	<1	ThinSOT	E	Operates with V_{IN} to 1V, "-1" Version Has 100mA Current Limit	$1.65
LT3464		2.3	10	34	0.07 * V_{IN}/V_{OUT}	0.12	–	COT	25	<1	ThinSOT	E	Integrated Schottky Diode and Output Disconnect	$1.50
LT3494		2.5	16	38	0.12 * V_{IN}/V_{OUT}	0.18	–	COT	65	<1	3×2 DFN-6	E	Integrated Schottky Diode, Soft-Start, Output Disconnect	$1.45
LT3460-1		2.5	16	36	0.12 * V_{IN}/V_{OUT}	0.18	–	650kHz	1mA	<1	SC70, 2×2 DFN-6	E	180mA Switch in SC70, V_{OUT} to 36V	$1.60
LT1944-1		1.2	15	36	0.12 * V_{IN}/V_{OUT}	0.18×2	–	COT	20	<1	MSOP-10	E	Dual 350mA and 150mA Boost Converters in Single Package	$2.00
LT3469		2.5	16	35	0.13 * V_{IN}/V_{OUT}	0.2	–	1.3MHz	2mA	<1	ThinSOT	E	Integrated Piezo Driver	$1.65
LT3463		2.4	15	±40	0.16 * V_{IN}/V_{OUT}	0.25×2	–	COT	40	<1	3×3 DFN-10	E	Dual 250mA/250mA, Internal Schottkys. Boost/Inverter Converters in Single Package — Ideal for CCD Biasing	$1.95
LT3461/A		2.5	16	38	0.20 * V_{IN}/V_{OUT}	0.3	–	1.3/3MHz	2.8mA	<1	ThinSOT	I	Integrated Schottky Diode, Soft-Start. "A" Grade Switches at 3MHz; "Plain" Switches at 1.3MHz	$1.65
LT3460		2.5	16	36	0.20 * V_{IN}/V_{OUT}	0.3	–	1.3MHz	2mA	<1	SC70, TSOT-5	E	300mA Switch in SC70, V_{OUT} to 36V	$1.60
LT1937		2.5	10	36	0.21 * V_{IN}/V_{OUT}	0.32	–	1.2MHz	1.9mA	<1	ThinSOT	E	84%, Constant-Current/Voltage Ideal for Driving 4 White LEDs	$1.20
LT1615		1.2	15	36	0.23 * V_{IN}/V_{OUT}	0.35	–	COT	20	<1	ThinSOT	E	Operates with V_{IN} Equals 1V	$1.65
LT3495-1/B-1		2.5	16	40	0.23 * V_{IN}/V_{OUT}	0.35	–	APC	60	<1	3×2 DFN-10	E	Output Disconnect, Low Noise, /B Version Disables Burst Mode Operation	$1.75
LT3494A		2.5	16	38	0.23 * V_{IN}/V_{OUT}	0.35	–	COT	65	<1	3×2 DFN-6	E	Integrated Schottky Diode, Soft-Start, Output Disconnect	$1.45
LT1944		1.2	15	36	0.23 * V_{IN}/V_{OUT}	0.35×2	–	COT	20	<1	MSOP-10	E	Dual 350mA Boost Converters in Single Package	$2.00
LT1945		1.2	15	±34	0.23 * V_{IN}/V_{OUT}	0.35×2	–	COT	20	<1	MSOP-10	E	Dual 350mA, @ ±34V Boost Converters in Single Package	$2.06
LT3482		2.5	16	90	Up to 4mA	0.36	–	650k/1.1MHz	3.3mA	<1	3×3 QFN-16	E, I	APD Bias or General Purpose High Voltage (to 90V) Boost	$3.45
LT3463A		2.4	15	±40	0.26 * V_{IN}/V_{OUT}	0.4 & 0.25	–	COT	40	<1	3×3 DFN-10	E	Dual 250mA/400mA, Internal Schottkys. Boost/Inverter Converters in Single Package — Ideal for CCD Biasing	$1.95
LT3472		2.2	16	±34	0.26 * V_{IN}/V_{OUT}	0.4 & 0.35	–	1.2MHz	2.8mA	<1	3×3 DFN-10	E	Dual 350mA/400mA, Internal Schottkys. Boost/Inverter Converters in Single Package — Ideal for CCD Biasing	$1.95
LT3465		2.7	16	30	0.26 * V_{IN}/V_{OUT}	0.4	–	1.2/2.7MHz	2mA	<1	ThinSOT	E	Integrated Schottky Ideal for White LEDs	$1.35
LTC3525	0.5	0.85/1	4	3/3.3/5	0.26 * V_{IN}/V_{OUT}	0.4	yes	APC	7	<1	SC70-6	E	Output Disconnect, Fixed 3V, 3.3V or 5V Options, Only 3 External Components, "D-3.3" Connects V_{IN} to V_{OUT} When Shut Down	$1.81
LTC3525L-3	0.5	0.7/0.88	4	3.3	0.26 * V_{IN}/V_{OUT}	0.4	yes	APC	7	<1	SC70-6	E	Output Disconnect, Only 3 External Components, 0.7V Start-Up	$1.90
LT1610		0.9/1	8	28	0.29 * V_{IN}/V_{OUT}	0.45	–	1.7MHz	30	<1	MSOP-8, SO-8	I	Operates with V_{IN} = 1V, V_{OUT} to 30V	$1.65
LTC3526/B	0.5	0.85/1	5	5.25	0.325 * V_{IN}/V_{OUT}	0.5	yes	1.0MHz or 2MHz	9/250	<1	2×2 DFN-6	E	Ideal for 1-/2-Cell Applications, Output Disconnect, "B" Disables Burst Mode Operation, "-2" Has Higher 2MHz Switching Frequency	$1.75
LTC3526L/B	0.5	0.68/0.8	5	5.25	0.325 * V_{IN}/V_{OUT}	0.55	yes	1.0MHz	9/250	<1	2×2 DFN-6	E	Similar to LTC3526, "L" Has 0.7V Minimum Start-Up and Guaranteed Operation Down to V_{IN} = 0.5V.	$1.85
LTC3427		1.8	5	5.25	0.325 * V_{IN}/V_{OUT}	0.5	yes	1.25MHz	350	<1	2×2 DFN-6	E	Ideal for Two Cell Applications, Low Noise Current Mode PWM, Output Disconnect	$1.75
LT1316		1.5/1.65	12	30	0.33 * V_{IN}/V_{OUT}	0.5	–	COT	33	<3	MSOP-8, SO-8	I	Programmable Input Current Limit, Low Battery Detect	$2.45
LT1109A		2	9	50	0.33 * V_{IN}/V_{OUT}	0.5	–	120kHz	360	<1	SO-8, DIP-8,TO-92		Logic Controlled Shutdown, Adj or Fixed 5V, 12V Output	$2.35
LT1109		1.6	20	50	0.33 * V_{IN}/V_{OUT}	0.5	–	120kHz	320	<1	SO-8, DIP-8,TO-92		Logic Controlled Shutdown, Adj or Fixed 5V, 12V Output	$2.35
LT1307/B		0.92/1	5	30	0.33 * V_{IN}/V_{OUT}	0.5	–	600kHz	50/1.1mA	<1	MSOP-8, DIP-8, SO-8	I	/B Version Disables Burst Mode Operation, Low Battery Detector	$2.05
LT1613		0.9/1.1	10	34	0.36 * V_{IN}/V_{OUT}	0.55	–	1.4MHz	3mA	<1	ThinSOT		Operates with V_{IN} = 1.1V, V_{OUT} to 34V, Ideal for SEPIC	$1.60
LT1932		1	10	36	0.36 * V_{IN}/V_{OUT}	0.55	–	1.2MHz	1.2mA	<1	ThinSOT	E	Low Noise, 80% Efficiency, Ideal for 4-6 LEDs, Regulates for $V_{IN}>V_{OUT}$	$1.75
LTC3535	**0.5**	**0.68/0.8**	**5**	**5.25**	**0.36 * V_{IN}/V_{OUT}**	**0.55×2**	**yes**	**1MHz**	**9**	**<1**	**3×3 DFN-12**	**E**	**Dual Micropower Boost Converter with Output Disconnect, Soft-Start. Regulates For $V_{IN}>V_{OUT}$**	**$2.95**
LTC3523/-2		1.6/1.8	5.5	5.5	0.39 * V_{IN}/V_{OUT}	0.6	yes	1.2/2.4MHz	45	<1	3×3 QFN-16	E	Synchronous Boost and Buck Converter, "-2" Has 2.4MHz Switching	$2.95
LTC3537	0.5	0.68/0.8	5.25	5.5	0.39 * V_{IN}/V_{OUT}	0.6	yes	2.2MHz	15	<1	3×3 QFN-16	E	Synchronous Boost Converter with Output Disconnect and 100mA LDO	$2.40
LTC3400/B	0.5	0.85/1	5	6	0.39 * V_{IN}/V_{OUT}	0.6	–	1.2MHz	19/300	<1	ThinSOT	E	/B Version Disables Burst Mode Operation, Logic Controlled Shutdown	$1.95
LTC3429/B	0.5	0.85/1	4.4	5	0.39 * V_{IN}/V_{OUT}	0.6	yes	500kHz	20/380	<1	ThinSOT	E	/B Version Disables Burst Mode Operation, Output Disconnect in Shutdown	$1.95
LT1317/B		1.5	12	30	0.39 * V_{IN}/V_{OUT}	0.6	–	600kHz	100/4.8mA	<1/3	MSOP-8, SO-8	I	/B Version Disables Burst Mode Operation, Low Battery Detector	$2.25
LT3495/B		2.5	16	40	0.42 * V_{IN}/V_{OUT}	0.65	–	APC	60	<1	3×2 DFN-10	E	Output Disconnect, Low Noise, /B Version Disables Burst Mode Operation	$1.75
LTC3499/B		1.6/1.8	5.5	6	0.49 * V_{IN}/V_{OUT}	0.75	yes	1.2MHz	20/300	<1	3×3 DFN-8, MSOP-8	E	/B Version Disables Burst Mode Operation, Reverse Battery Protection, Output Disconnect	$2.15
LT1300		1.8	10	20	0.49 * V_{IN}/V_{OUT}	0.75	–	155kHz	120	<10	DIP-8, SO-8		Programmable Peak Current Limit, 5V or 3.3V Output	$2.45
LT1301		1.8	10	20	0.49 * V_{IN}/V_{OUT}	0.75	–	155kHz	120	<10	DIP-8, SO-8	I	Programmable Peak Current Limit, 5V or 12V Output	$2.45
LT1303		1.8	10	25	0.49 * V_{IN}/V_{OUT}	0.75	–	155kHz	120	<10	DIP-8, SO-8	I	Programmable Peak Current Limit, 5V or Adj Output, Low Batt Detect	$2.45
LT1304		1.5	8	25	0.52 * V_{IN}/V_{OUT}	0.8	–	300kHz	120	<10	SO-8		Programmable Peak Current Limit, Low Battery Detect	$2.45

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

MONOLITHIC BOOST (STEP-UP)

Part Number	V_{IN} Min Operating[1, 2] (V)	V_{IN} Min Start-Up[2] (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current[3] (A)	† Switch Current (A)	Synchronous	Switching Frequency[4]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3527	0.5 Typ	0.7/0.88	5.25	5.5	0.52 * V_{IN}/V_{OUT}	0.8 & 0.4	yes	1.2 or 2.2MHz	12	<1	3×3 QFN-16	E	Dual Synchronous Outputs, Regulates with $V_{IN}>V_{OUT}$, Output Disconnect in Shutdown, "-1" Quickly Discharges V_{OUT} When Entering Shutdown	$2.95
LT3572		2.7	10	40	0.58 * V_{IN}/V_{OUT}	0.9	yes	500kHz to 2.5MHz	3.4mA	<1	4×4 QFN-20	E	Dual Piezo Driver and Boost Regulator. Ext Frequency Synchronization	$2.75
LT3487		2.3	16	28	0.59 * V_{IN}/V_{OUT}	0.9 & 0.75	–	2MHz	3.7mA	<5.3	3×3 DFN-10	E	Dual Boost/Inverter, Internal Schottkys	$2.30
LTC3528/B/B-2	0.5 Typ	0.7/0.88	5.5	5.25	0.65 * V_{IN}/V_{OUT}	1	yes	1MHz/2MHz	12/300	<1	3×2 DFN-8	E	Output Disconnect in Shutdown, Regulates with $V_{IN}>V_{OUT}$, "B" Version Disables Burst Mode Operation, "B-2" Version Switches at 2MHz	$1.95
LTC3401	0.5	0.85/1	5	6	0.65 * V_{IN}/V_{OUT}	1	yes	Up to 3MHz	38	<1	MSOP-10	E	Synchronous, Ext Frequency Synchronization, See LTC3528 for New Designs	$2.60
LTC3423	0.5	0.9	5	6	0.65 * V_{IN}/V_{OUT}	1	yes	Up to 3MHz	38	<1	MSOP-10	E	Ext Frequency Synchronization, Output Voltages of 1.5V to 2.6V Require $V_{DD}>=2.7V$	$2.60
LT1073		1/1.15	12.6	50	0.65 * V_{IN}/V_{OUT}	1	–	19kHz	95	<1	DIP-8, SO-8		Can Use as Step-Up or Step-Down, Adj Current Limit, Low Battery Detect. In Boost Mode, V_{IN} Max=12.6V	$3.00
LT1173		2	12.6	50	0.65 * V_{IN}/V_{OUT}	1	–	23kHz	110	<1	DIP-8, SO-8		Can use as Step-Up or Step-Down, 5V or 12V or Adj Output	$2.30
LT1949		1.5/1.7	12	30	0.65 * V_{IN}/V_{OUT}	1	–	600kHz/1.1MHz	4.5mA	<25	MSOP-8, SO-8	E, I	Operates with VIN to 1.5V, Low Battery Detect	$2.25
LT1107		2	30	50	0.65 * V_{IN}/V_{OUT}	1	–	63kHz	320	<1	DIP-8, SO-8	I	Programmable Current Limit, Fixed V_{OUT} 5V or 12V or Adj	$2.25
LT1930/A		2.6	16	34	0.65 * V_{IN}/V_{OUT}	1	–	1.2MHz/2.2MHz	4.2mA/ 5.5mA	<1	ThinSOT	E	Pin for Pin Compatible with LT1613, Wide V_{IN} Range	$1.90
LT1533		2.7	23	30	0.65 * V_{IN}/V_{OUT}	1	–	250kHz	12	<1	SO-16	I	Greatly Reduced Conducted/Emitted EMI, (<100µV_{P-P}), Independent Control of Switch Voltage/Current Slew Rates	$4.65
LT1082		3	75	100	0.65 * V_{IN}/V_{OUT}	1	–	60kHz	4.5mA	<120	DIP-8, DD-5, TO-220	I	V_{IN}: 3V to 75V, Isolated Flyback Regulation	$4.40
LT1947		2.7	8	30	0.72 * V_{IN}/V_{OUT}	1.1	–	3MHz	9.5mA	<1	MSOP-10/E	E	Triple Output for TFT-LCD Applications	$2.50
LT3467/A		2.4	16	40	0.71 * V_{IN}/V_{OUT}	1.1	–	1.3/2.1MHz	1.2mA	<1	ThinSOT	E	Internal Soft-Start	$1.75
LTC3125		**1.8**	**5.5**	**5.25**	**0.78 * V_{IN}/V_{OUT}**	**1.2**	**yes**	**1.6MHz**	**15**	**<1**	**2×3 DFN-8**	**E**	**Programmable Avg Input Current Limit, Output Disconnect, Soft-Start; Supports GSM/GPRS Burst Currents**	**$2.25**
LT3473/A		2.2	16	36	0.78 * V_{IN}/V_{OUT}	1.2	–	1.2MHz	150	<1	3×3 DFN-8, 4×3 DFN-12	E	Integrated Output Disconnect, Schottky Diode, "A" Version Has Two NPN Transistors for Intermediate Bias Voltages	$1.95
LT1072/HV		3	40/60	40/60	0.81 * V_{IN}/V_{OUT}	1.25	–	40kHz	6mA	<50	TO-220, DIP-8, SO-8, SO-16	I	V_{IN}: 3V to 60V, Operates in Nearly All Switching Topologies	$2.35
LT1172/HV		3	40/60	40/60	0.81 * V_{IN}/V_{OUT}	1.25	–	100kHz	6mA	<50	DIP-8, SO(W)-16, TO-220, DD-5	I	V_{IN}: 3V to 60V, Operates in Nearly All Switching Topologies, Synchronizable	$2.35
LT1572		3	30	60	0.81 * V_{IN}/V_{OUT}	1.25	–	140kHz	6mA	<50	SO-16		V_{IN}: 3V to 30V, Operates in Nearly All Switching Topologies	$3.95
LTC3458L		1.5	4.3	6	0.91 * V_{IN}/V_{OUT}	1.4	yes	Up to 1.5MHz	15	<1	4×3 DFN-12	E	Output Up to 6V, Output Disconnect, Synchronizable	$3.30
LTC3458		1.5	4	8	0.91 * V_{IN}/V_{OUT}	1.4	yes	Up to 1.5MHz	15	<1	4×3 DFN-12	E	Output Up to 7.5V, Output Disconnect, Synchronizable	$3.30
LTC3529		**1.8**	**5**	**5**	**0.98 * V_{IN}/V_{OUT}**	**1.5**	**yes**	**1.5MHz**	**1mA**	**<1**	**2×3 DFN-8**	**E**	**Fixed 5V Output, Output Disconnect, Fault Protection, Targets USB OTG, 5V @ 500mA From Single Li-Ion Battery**	**$2.05**
LTC3422	0.5	0.88/1	4.5	5.25	0.98 * V_{IN}/V_{OUT}	1.5	yes	100kHz to 3MHz	25	<1	3×3 DFN-10	E	Output Disconnect, Inrush Current Limiting, Synchronizable	$2.95
LT1618		1.6	18	36	0.98 * V_{IN}/V_{OUT}	1.5	–	1.4MHz or 550kHz	1.8mA	<1	MSOP-10, DFN-10	E	Constant Current/Voltage	$1.75
LT1961		3	25	34	0.98 * V_{IN}/V_{OUT}	1.5	–	1.25MHz	0.9mA	<6	MSOP-8E	I	Synchronizable	$1.69
LT1946/A		2.45/2.6	16	36	0.98 * V_{IN}/V_{OUT}	1.5	–	1.2/2.7MHz	3.2mA	<1	MSOP-8	E	Integrated Soft-Start, Ideal for TFT-LCD Applications	$1.75
LT1372/LT1377		2.7	30	30	0.98 * V_{IN}/V_{OUT}	1.5	–	500kHz/1MHz	4mA	<12	DIP-8, SO-8	I	Regulates Positive or Negative Outputs, Synchronizable	$3.30
LT1373/HV		2.7	30	35/42	0.98 * V_{IN}/V_{OUT}	1.5	–	250kHz	1mA	<12	DIP-8, SO-8	I	Regulates Positive or Negative Outputs, Synchronizable	$3.50
LT1310		2.75	18	35	0.98 * V_{IN}/V_{OUT}	1.5	–	Up to 4.5MHz	12mA	<1	MSOP-10E	E	Low Noise Output, Synchronizable/Constant Frequency, Thermally Enhanced Package	$2.85
LTC3539	0.5	0.7/0.88	5	5.25	1.30 * V_{IN}/V_{OUT}	2	yes	1.0/2.0MHz	10	<1	2×3 DFN-8	E	Output Disconnect in Shutdown, "-2" Uses 2MHz Switching Frequency	$2.50
LT3580		2.5	32	42	1.30 * V_{IN}/V_{OUT}	2	–	200kHz to 2.5MHz	1mA	<1	3×3 DFN-8, MSOP-8	I	42V, 2A Switch for Boost or Inverting, Synchronizable	$2.00
LTC3426		1.6	4.3	5.5	1.30 * V_{IN}/V_{OUT}	2	–	1.2MHz	600	<1	ThinSOT	E	2A Switch in ThinSOT	$1.75
LT1935		2.3	16	40	1.30 * V_{IN}/V_{OUT}	2	–	1.2MHz	3mA	<1	ThinSOT	E	Soft-Start, Pin-to-Pin Comp with LT1930	$2.44
LTC3402	0.5	0.85/1	5	6	1.30 * V_{IN}/V_{OUT}	2	yes	Up to 3MHz	38	<1	MSOP-10	E	Synchronous Rectification, Ext Frequency Synchronization, Up to 97% Efficiency	$3.50
LTC3424	0.5	2.7	5	6	1.30 * V_{IN}/V_{OUT}	2	yes	Up to 3MHz	38	<1	MSOP-10	E	Output Voltages of 1.5V to 2.6V Require $V_{DD}>=2.7V$, Ext Frequency Synchronization	$3.50
LT1308A/B		1	10	34	1.30 * V_{IN}/V_{OUT}	2	–	600kHz	100	<5	SO-8	I	Ideal for Single Cell AA, /B Version disables Burst Mode Operation, Low Battery Detector	$3.25
LT1302		2	8	25	1.30 * V_{IN}/V_{OUT}	2	–	400kHz	100	<15	SO-8, DIP-8		Logic Controlled Shutdown, Adj or Fixed 5V	$3.25
LT1534		2.7	23	35	1.30 * V_{IN}/V_{OUT}	2	–	250kHz	12mA	<12	SO-16	I	Greatly Reduced Conducted/Emitted EMI, Independent Control of Switch Voltage/Current Slew Rates	$3.95
LT1943		4.5	22	40	1.56 * V_{IN}/V_{OUT}	2.4	–	1.2MHz	10mA	<1	TSSOP-28E	E	High Current Quad Output Regulator for TFT LCD Displays	$4.75
LT3489		2.4/2.6	16	38	1.625 * V_{IN}/V_{OUT}	2.5	–	2.2MHz	4mA	<1	MSOP-8E	E	40V, 2.5A Switch at 2.2MHz	$1.95
LT1071/HV		3	40/60	40/60	1.63 * V_{IN}/V_{OUT}	2.5	–	40kHz	6mA	<50	TO-220	I	V_{IN}: 3V to 60V, Operates in Nearly All Switching Topologies	$4.60

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min Operating[1, 2] (V)	V_{IN} Min Start-Up[2] (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current[3] (A)	† Switch Current (A)	Synchronous	Switching Frequency[4]	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT1171/HV		3	40/60	65/75	1.63 * V_{IN}/V_{OUT}	2.5	–	100kHz	6mA	<50	DIP-8, SO-8, SO(W)-16, TO-220, DD-5	I	V_{IN}: 3V to 60V, Operates in Nearly All Switching Topologies, Synchronizable	$4.60
LTC3421	0.5	0.88/1	4.5	5.25	1.95 * V_{IN}/V_{OUT}	3	yes	Up to 3MHz	12	<1	4×4 QFN-24	E	Integrated Output Disconnect, Programmable Soft-Start, Current Limit. Ext Frequency Synchronization	$3.50
LT3436		3	25	34	1.95 * V_{IN}/V_{OUT}	3	–	800kHz	0.9mA	<1	TSSOP-16E	E	3A, 34V Internal Switch, Ext Frequency Synchronization From 1MHz to 1.4MHz	$2.75
LT3479		2.5	24	40	1.95 * V_{IN}/V_{OUT}	3	–	200kHz to 3.5MHz	6.5mA	<1	TSSOP-20E, 4×3 QFN-20	E	3A, 40V Internal Switch, Regulates Positive or Negative Outputs	$3.00
LT3477		2.5	25	42	1.95 * V_{IN}/V_{OUT}	3	–	200kHz to 3.5MHz	5mA	<1	TSSOP-20E, 4×4 QFN-20	E	3A, 42V Internal Switch, Ideal for Buck-Boost or Buck-Boost Configuration of High Current LEDs	$3.15
LT1371/HV		2.7	30	35/42	1.95 * V_{IN}/V_{OUT}	3	–	500kHz	4mA	<12	DD-7, TO-220, SO(W)-20	I	Regulates Positive or Negative Outputs, Synchronizable	$5.15
LT1269/LT1271		3.5	30	60	2.60 * V_{IN}/V_{OUT}	4	–	100kHz/60kHz	2	<100	DD-5, TO-220, SO(W)-20		V_{IN}: 3.5V to 30V, Flyback Has Fully Floating Outputs	$5.20
LTC3428		1.6	4.5	5.25	2.60 * V_{IN}/V_{OUT}	4	–	2MHz	1.3mA	<1	3×3 DFN-10	E	2-Phase (1MHz Per Phase) Operation for Small Size, Low Ripple	$3.50
LTC3425	0.5	0.88/1	4.5	5.25	3.25 * V_{IN}/V_{OUT}	5	yes	8MHz	12	<1	5×5 QFN-32	E	4-Phase Operation for Small Size, Low Ripple	$4.38
LT1070/HV		3	40/60	40/60	3.25 * V_{IN}/V_{OUT}	5	–	40kHz	6mA	<50	TO-220	I	V_{IN}: 3V to 60V, Operates in Nearly All Switching Topologies	$4.25
LT1170/HV		3	40/60	40/60	3.25 * V_{IN}/V_{OUT}	5	–	100kHz	6mA	<50	DIP-8, SO-8, SO(W)-16, TO-220, DD-5	I	V_{IN}: 3V to 60V, Operates in nearly all Switching Topologies, Synchronizable	$5.60
LT1370/HV		2.7	30	35/42	3.90 * V_{IN}/V_{OUT}	6	–	500kHz	4.5mA	<12	DD-7, TO-220	I	Regulates Positive or Negative Outputs, Synchronizable	$6.05
LT1268/B		3	30	60	4.88 * V_{IN}/V_{OUT}	7.5	–	150kHz	7mA	<100	DD-5, TO-220		V_{IN}: 3V to 30V, External Synchronization	$6.25
LT1270/A		3.5	30	60	6.40 * V_{IN}/V_{OUT}	8/10	–	60kHz	7mA	<100	TO-220		V_{IN}: 3.5V to 30V, Flyback Has Fully Floating Outputs	$5.60

† Primary Sort Column

Notes:
1. If Different than V_{IN} Min Start-Up
2. Two numbers indicate typical/guaranteed values
3. Output current is calculated using the equation $0.65 \times I_{SWITCH} \times (V_{IN}/V_{OUT}) = I_{OUT}$. This value is an estimate and can vary depending on external component choices.
4. COT = Constant Off Time, APC = Adaptive Power Control, VOT=Variable Off Time & Variable Peak Current

MICROPOWER BOOST REGULATORS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current[1] (A)	† Switch Current (A)	Synchronous	Switching Frequency[2]	I_Q (I_{SUPPLY}) (µA)	Shut-Down Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT8410	**2.5**	**16**	**40**	**0.013 * V_{IN}/V_{OUT}**	**0.006/0.02**	**–**	**VOT**	**9**	**<1**	**2×2 DFN-8**	**E, I**	**Integrated Schottky, Output Disconnect, 0µA Shutdown Current, OV Protection, Comparator on SHDN Pin. "-1" Reduces Switch Current to 6mA**	**$1.75**
LTC3459	1.5	5.5	10	0.05 * V_{IN}/V_{OUT}	0.075	–	COT	10	<1	ThinSOT	E	Synchronous Rectification, and Output Disconnect	$1.95
LT1615-1	1	15	36	0.07 * V_{IN}/V_{OUT}	0.1	–	COT	20	<1	ThinSOT	E	Operates with V_{IN} to 1V, -1 Version Has 100mA Current Limit	$1.65
LT3464	2.3	10	34	0.07 * V_{IN}/V_{OUT}	0.12	–	COT	25	<1	ThinSOT	E	Integrated Schottky Diode and Output Disconnect	$1.50
LT3494	2.3	16	38	0.12 * V_{IN}/V_{OUT}	0.18	–	APC	65	<1	3×2 DFN-6	E	Low Noise, Integrated Schottky Diode, Soft-Start, Output Disconnect	$1.45
LT1944-1	1	15	36	0.12 * V_{IN}/V_{OUT}	0.18×2	–	COT	20	<1	MSOP-10	E	Dual 350mA and 150mA Boost Converters in Single Package	$2.00
LT3495/B	2.3	16	40	0.27 * V_{IN}/V_{OUT}	0.35	–	APC	60	<1	3×2 DFN-10	E	Low Noise, /B Version Disables Burst Mode	$1.75
LT1615	1.2	15	36	0.23 * V_{IN}/V_{OUT}	0.35	–	COT	20	<1	ThinSOT	E	Operates with V_{IN} to 1V, LT1615 Has 350mA Current Limit	$1.65
LT3494A	2.3	16	38	0.27 * V_{IN}/V_{OUT}	0.35	–	APC	65	<1	3×2 DFN-6	E	Low Noise, Integrated Schottky Diode, Soft-Start, Output Disconnect	$1.45
LT1944	1	15	36	0.23 * V_{IN}/V_{OUT}	0.35×2	–	COT	20	<1	MSOP-10	E	Dual 350mA Boost Converters in Single Package	$2.00
LT1945	1	15	±36	0.23 * V_{IN}/V_{OUT}	0.35×2	–	COT	20	<1	MSOP-10	E	Dual 350mA, @ 34V Boost Converters in Single Package	$2.06
LTC3525	0.85	4	3/3.3/5	0.26 * V_{IN}/V_{OUT}	0.4	–	APC	7	<1	SC70-6	E	Output Disconnect, Fixed 3V, 3.3V or 5V Output. Only 3 Externals. "L" Version Has Guaranteed 0.88V Start-Up	$1.81
LTC3525L	0.85	4	3	0.26 * V_{IN}/V_{OUT}	0.4	–	APC	7	<1	SC70-6	E	Output Disconnect, Fixed 3V Output. Only 3 Externals. "L" Version Has Guaranteed 0.88V Start-Up	$1.90
LT3463/A	2.3	15	±34	0.29 * V_{IN}/V_{OUT}	0.4/0.25	–	COT	40	<1	3×3 DFN-10	E	Dual 250mA/250mA (400mA for "A"), Internal Schottkys. Boost/Inverter Converters in Single Package—Ideal for CCD Biasing	$1.95
LT1610	1	8	30	0.29 * V_{IN}/V_{OUT}	0.45	–	1.7MHz	30	<1	MSOP-8, SO-8	I	Operates with V_{IN} to 1V, V_{OUT} to 30V	$1.65
LTC3526/B	0.85	5	5.25	0.325 * V_{IN}/V_{OUT}	0.5	yes	1.0MHz	9/250	<1	2×2 DFN-6	E	Ideal for Dual Cell Applications	$1.75
LT1316	1.5	12	30	0.33 * V_{IN}/V_{OUT}	0.5	–	COT	35	<3	MSOP-8, SO-8	I	Programmable Input Current Limit, Low Battery Detect	$2.45
LT1307	1	12	30	0.33 * V_{IN}/V_{OUT}	0.5	–	600kHz	50	<1	MSOP-8, DIP-8, SO-8	I	/B Version Disables Burst Mode, Low Battery Detector	$2.05
LTC3427	1.8	5	5.25	0.33 * V_{IN}/V_{OUT}	0.5	yes	1.2MHz	350	<1	2×2 DFN-6	E	2×2 DFN, Output Disconnect, Inrush Current Limit	$1.75
LTC3535	**0.5**	**5**	**5.25**	**0.36 * V_{IN}/V_{OUT}**	**0.55×2**	**yes**	**1MHz**	**9**	**<1**	**3×3 DFN-12**	**E**	**Dual Micropower Boost Converter with Output Disconnect, Soft-Start. Regulates For $V_{IN} > V_{OUT}$**	**$2.95**

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

MICROPOWER BOOST REGULATORS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current[1] (A)	† Switch Current (A)	Synchronous	Switching Frequency[2]	I_Q (I_{SUPPLY}) (µA)	Shut-Down Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3523/-2	1.8	5.5	5.5	$0.39*V_{IN}/V_{OUT}$	0.6	yes	1.2/2.4MHz	45	<1	3×3 QFN-16	E	Synchronous Boost and Buck Converter, "-2" Has 2.4MHz Switching	$2.95
LTC3537	0.7	5.25	5.5	$0.39*V_{IN}/V_{OUT}$	0.6	yes	2.2MHz	30	<1	3×3 QFN-16	E	Synchronous Boost Converter and LDO	$2.40
LTC3400/B	0.85	5	6	$0.39*V_{IN}/V_{OUT}$	0.6	yes	1.2MHz	19	<1	ThinSOT	E	/B Version Disables Burst Mode Operation, Logic Controlled Shutdown	$1.95
LTC3429/B	0.5	4.4	5	$0.39*V_{IN}/V_{OUT}$	0.6	yes	500kHz	20/380	<1	ThinSOT	E	/B Version Disables Burst Mode Operation, Output Disconnect in Shutdown	$1.95
LT1317	1.5	12	30	$0.39*V_{IN}/V_{OUT}$	0.6	–	600kHz	160	<1	MSOP-8, SO-8	I	/B Version Disables Burst Mode Operation, Low Battery Detector	$2.25
LT3495-1/B-1	2.3	16	40	$0.42*V_{IN}/V_{OUT}$	0.65	–	APC	60	<1	3×2 DFN-10	E	Low Noise, /B Version Disables Burst Mode Operation	$1.75
LT1300	1.8	10	20	$0.49*V_{IN}/V_{OUT}$	0.75	–	155kHz	120	<10	DIP-8, SO-8		Programmable Peak Current Limit, Programmable 3.3V or 5V Output	$2.45
LT1301	1.8	10	20	$0.49*V_{IN}/V_{OUT}$	0.75	–	155kHz	120	<10	DIP-8, SO-8	I	Programmable Peak Current Limit, Programmable 5V or 12V Output	$2.45
LT1303	1.8	10	25	$0.49*V_{IN}/V_{OUT}$	0.75	–	155kHz	120	<10	DIP-8, SO-8	I	Programmable Peak Current Limit, Programmable 5V or Adj. Output	$2.45
LTC3499/B	1.8	5.5	6	$0.49*V_{IN}/V_{OUT}$	0.75	yes	1.2MHz	20/300	<1	DFN-8, MSOP-8	E	/B Version Disables Burst Mode Operation, Reverse Battery Protection	$2.15
LT1304	1.5	8	25	$0.52*V_{IN}/V_{OUT}$	0.8	–	300kHz	120	<10	SO-8		Programmable Peak Current Limit, Low Battery Detect	$2.45
LTC3527	0.7	5.25	5.5	$0.52*V_{IN}/V_{OUT}$	0.8/0.4	yes	1.2 or 2.2MHz	12	<1	3×3 QFN-16	E	Dual Synchronous Outputs, "-1" Quickly Discharges V_{OUT} when Entering Shutdown	$2.95
LTC3528/B	0.7	5.5	5.25	$0.65*V_{IN}/V_{OUT}$	1	yes	1.0MHz	12/300	<1	3×2 DFN-8	E	/B Version Disables Burst Mode Operation, Output Disconnect in Shutdown	$2.40
LTC3401	0.5	5	6	$0.65*V_{IN}/V_{OUT}$	1	yes	3MHz	38	<1	MSOP-10	E	Synchronous Rectification, Up to 97% Efficiency	$2.60
LTC3423	0.5	5	6	$0.65*V_{IN}/V_{OUT}$	1	yes	3MHz	38	<1	MSOP-10	E	For Output Voltages of 1.5V to 2.6V, Requires V_{DD} of 2.7V	$2.60
LT1073	1	30	50	$0.65*V_{IN}/V_{OUT}$	1	–	19kHz	95	<1	DIP-8, SO-8		Can Use as Step-Up or Step-Down, Adj Current Limit, Low Battery Detect	$3.00
LT1173	1	30	50	$0.65*V_{IN}/V_{OUT}$	1	–	23kHz	110	<1	DIP-8, SO-8		Can Use as Step-Up or Step-Down, 5V or 12V or Adj Output	$2.30
LT1533	2.7	23	30	$0.65*V_{IN}/V_{OUT}$	1	–	250kHz	12	<1	SO-16	I	Greatly Reduced Conducted/Emitted EMI, (<100µV_{PP}), Independent Control of Switch Voltage/Current Slew Rates	$4.65
LTC3125	**1.8**	**5.5**	**5.25**	**$0.78*V_{IN}/V_{OUT}$**	**1.2**	**yes**	**1.6MHz**	**15**	**<1**	**2×3 DFN-8**	**E**	**Programmable Avg Input Current Limit, Output Disconnect, Soft-Start; Supports GSM/GPRS Burst Currents**	**$2.25**
LT3473/A	2.2	16	36	$0.65*V_{IN}/V_{OUT}$	1.2	–	1.2MHz	150	<1	3×3 DFN-8, 4×3 DFN-12	E	Integrated Output Disconnect, Schottky Diode; "A" Version Has Two NPN Transistors for Intermediate Bias Voltages	$1.95
LTC3458	1.6	4.3	7.5	$0.65*V_{IN}/V_{OUT}$	1.4	yes	1.5MHz	15	<1	4×3 DFN-12	E	Outputs Up to 7.5V	$3.30
LTC3458L	1.6	4.3	6	$0.65*V_{IN}/V_{OUT}$	1.4	yes	1.5MHz	15	<1	4×3 DFN-12	E	Outputs Up to 6V	$3.30
LTC3422	0.85	4.5	5.25	$0.98*V_{IN}/V_{OUT}$	1.5	yes	3MHz	25	<1	3×3 DFN-10	E	Output Disconnect, Inrush Current Limiting	$2.95
LTC3539	0.7	5	5.25	$1.30*V_{IN}/V_{OUT}$	2	yes	1.0/2.0MHz	10	<1	2×3 DFN-8	E	Output Disconnect in Shutdown, "-2" Uses 2MHz Switching Frequency	$2.50
LTC3402	0.5	5	6	$1.30*V_{IN}/V_{OUT}$	2	yes	3MHz	38	<1	MSOP-10	E	Synchronous Rectification, Up to 97% Efficiency	$3.50
LTC3424	0.5	5	6	$1.30*V_{IN}/V_{OUT}$	2	yes	3MHz	38	<1	MSOP-10	E	For Output Voltages of 1.5V to 2.6V, Requires V_{DD} of 2.7V	$3.50
LT1308A/B	1	10	30	$1.30*V_{IN}/V_{OUT}$	2	–	600kHz	100	<5	SO-8	I	Ideal for Single Cell AA, /B Version Disables Burst Mode Operation, Low Battery Detector	$3.25
LT1302	2	10	25	$1.30*V_{IN}/V_{OUT}$	2	–	400kHz	100	<15	SO-8, DIP-8		Logic Controlled Shutdown, Adj or Fixed 5V	$3.25
LTC3421	0.5	4.5	5.25	$1.95*V_{IN}/V_{OUT}$	3	yes	3MHz	12	<1	4×4 QFN-24	E	Integrated Output Disconnect, Programmable Soft-Start, Current Limit	$3.50
LTC3425	0.5	4.5	5.25	$3.25*V_{IN}/V_{OUT}$	5	yes	8MHz	16	<1	5×5 QFN-32	E	4-Phase Operation for Small Size, Low Ripple	$4.38

† Primary Sort Column

Notes:
1. Output current is calculated using the equation $0.65 \times I_{SWITCH} \times (V_{IN}/V_{OUT}) = I_{OUT}$. This value is an estimate and can vary depending on external component choices.
2. COT = Constant Off Time, APC = Adaptive Power Control, VOT = Variable Off Time & Variable Peak Current

BOOST CONTROLLERS (STEP-UP)

Part Number	V_{IN} Min (V)	†† V_{IN} Max (V)	V_{OUT}[1] Max (V)	† Output Current[1] (A)	Synchronous	Switching Frequency	Package	Extended Temp Range	Comments	Price 1K Qty
LTC1700	0.9	5	6	3	yes	550kHz	MSOP-10	E	Synchronizable to 750kHz	$2.60
LT3724	4	60	36	5	–	200kHz	TSSOP-16	I	Also Buck and SEPIC	$3.10
LTC3873	8.8	75[1]	Up to 60V without R_{SENSE} and higher with R_{SENSE}	5	–	200kHz	ThinSOT-8, 3×2 DFN-8	E	Optional R_{SENSE}, Constant Frequency	$1.25
LTC3873-5	4	75[1]	Up to 60V without R_{SENSE} and higher with R_{SENSE}	5	–	200kHz	ThinSOT-8, 3×2 DFN-8	E, I	Optional R_{SENSE}, Constant Frequency	$1.25
LTC3805	8.4	75[1]	10V and higher	5	–	70kHz to 700kHz	MSOP-10, 3×2 DFN-10	E	Flyback, Boost and SEPIC, Adj Frequency and Synchronizable	$1.39
LTC3805-5	4.5	75[1]	6V and higher	5	–	70kHz to 700kHz	MSOP-10, 3×2 DFN-10	E, I	Flyback, Boost and SEPIC, Adj Frequency and Synchronizable	$1.39
LTC1872/B	2.5	9.8	3, 5, 12 and higher	10	–	550kHz	ThinSOT	E	Burst Mode Operation at Light Load, ("B" Version Has Continuous Operation at Light Load)	$1.80
LTC3872	2.75	9.8	3, 5, 12 and higher	10	–	550kHz	ThinSOT, 3×2 DFN-8	E	Pulse-Skipping at Light Load, No R_{SENSE}	$1.80
LT1619	1.9	18	3, 5, 12 and higher	10	–	300kHz to 550kHz	MSOP-8, SO-8	E	Synchronizable to 550kHz	$1.99

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min (V)	†† V_{IN} Max (V)	V_{OUT}[1] Max (V)	† Output Current[1] (A)	Synchronous	Switching Frequency	Package	Extended Temp Range	Comments	Price 1K Qty
LT1738	4	20	3, 5, 12 and higher	10	–	20kHz to 250kHz	SSOP-20	E, I	Ultralow Noise	$4.10
LT1950	3	25[1]	5, 12, 24 and higher	10	–	100kHz to 500kHz	SSOP-16	E, I	Boost, Flyback and Forward Controller; Transformer and MOSFET Protection	$2.90
LTC1871-7	2.5	36	3, 5, 12 and higher	10	–	50kHz to 1MHz	MSOP-10	E, I	Drives 6V-Gate N-Channel MOSFETs for High Voltage Telecom and Automotive Apps.; Frequency Set with Resistor	$2.55
LTC1871	2.5	36	3, 5, 12 and higher	10	–	50kHz to 1MHz	MSOP-10	E, I, H	Frequency Set with Resistor	$2.55
LTC1871-1	2.5	36	3, 5, 12 and higher	10	–	50kHz to 1MHz	MSOP-10	E, I	Frequency Set with Resistor, Burst Mode Operation Starts at a Lighter Load	$2.55
LT1680	4	60	12 and higher	10	–	200kHz	SO(W)-16	I	High Input Voltage, Synchronizable	$4.00
LTC3703-5	4.1	60	60	10	yes	100kHz to 600kHz	SSOP-16, 28	E	Synchronous; No Current Sense Resistor Required	$3.10
LTC3814-5	4.5	55	60	10	yes	100kHz to 1MHz	TSSOP-16	E, I	Synchronous; High Power, Optional R_{SENSE}, ExtV_{CC} Pin Allows Chip To Be Powered From V_{OUT}	$3.50
LT3844	4	60	5 and higher	10	–	100kHz to 600kHz	TSSOP-16	E, I	Synchronizable	$3.10
LT1952	14.25	75[1]	15 and higher	10	yes	100kHz to 500kHz	SSOP-16	I	Single Switch Synchronous Forward Controller	$3.30
LT1952-1	8	75[1]	10 and higher	10	–	100kHz to 500kHz	SSOP-16	E, I	Programmable Soft-Start and Slope Compensation	$3.30
LTC3813	7	75	100	10	yes	100kHz to 1MHz	SSOP-28	E, I	Synchronous; Optional R_{SENSE}, Onboard LDO Control	$3.75
LTC3703	9.3	100	100	10	yes	100kHz to 600kHz	SSOP-16, 28	E	Synchronous; No Current Sense Resistor Required	$3.10
LT3782/A	6	40	12 and higher	30	yes	150kHz to 500kHz	SSOP-28, 4×5 QFN-28	E, I	2-Phase Operation; High Power, High Efficiency. "A" Grade Has Tighter Current Sense Mismatch Tolerance, Optional Synchronous Operation	$4.53
LTC3862	4	36	8 and higher	90		50kHz to 650kHz	SSOP-24, 5×5 QFN-24, TSSOP-24	E, I, H	PolyPhase High Power Current Mode Step-Up Controller	$3.29
LTC3862-1	8.5	36	12 and higher	90		50kHz to 650kHz	SSOP-24, 5×5 QFN-24, TSSOP-24	E, I, H	LTC3862 with Higher Min V_{IN} and 10V Gate Drive	$3.29

† Primary Sort Column
†† Secondary Sort Column

Note:
1. Voltage and current depend on the choice of external components

INVERTERS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	† Switch Current (A)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
Monolithics											
LT1617-1	1	15	–34	0.1	Constant Off-Time	20	<1	ThinSOT	E	V_{OUT} up to –34V	$1.65
LT3483	2.5	16	–38	0.2	PFM	40	<1	ThinSOT	E	V_{OUT} up to –38V Integrated Schottky Diode	$2.05
LT3462/A	2.5	16	–38	0.3	1.2MHz/2.7MHz	2.9mA	<6.5	ThinSOT	E	V_{OUT} up to –38V, Integrated Schottky Diode	$2.05
LT1617	1.2	15	–34	0.35	Constant Off-Time	20	<1	ThinSOT	E	V_{OUT} up to –34V	$1.65
LTC1174/HV	4	13.5/18.5	–18.5	0.5	Constant Off-Time	130	<1	DIP-8, SO-8	I	Fixed Outputs of 3.3V, 5V Available	$3.50
LT1611	1.1	10	–34	0.55	1.4MHz	3mA	<1	ThinSOT		Low Noise <1mV_{PK-PK}	$1.95
LT1614	1	12	–24	0.75	600kHz	1mA	10	MSOP-8, SO-8	I	V_{IN} to 1V, Low Battery Detect	$2.46
LT1107/08	2	30	–30	1.0	63kHz	320	<1	DIP-8, SO-8	I	Programmable Current Limit, Fixed V_{OUT} 5V or 12V or Adj	$2.25
LT1111/73	2	30	–30	1.0	72kHz	300	<1	DIP-8, SO-8	I	Step-Up or Step-Down, Fixed V_{OUT} 5V or 12V or Adj	$2.30
LT1931/A	2.6	16	–34	1.0	1.2MHz/2.2MHz	5.8mA	<1	ThinSOT	I	Low Noise <1mV_{PK-PK}	$2.00
LT3471	2.4	16	–40	1.3	1.2MHz	2.5mA	<1	3×3 DFN-10	E	Dual Inverter or Boost/Inverter	$2.80
LT1372/HV	2.7	30/42	–35/–42	1.5	500kHz	4mA	12	SO-8, TSSOP-16E	I	Inductor Size Reduced to 1.8µH	$3.50
LT1377/HV	2.7	30/42	–35/–42	1.5	1MHz	4mA	12	SO-8, TSSOP-16E	I	Inductor Size Reduced to 1.8µH	$3.50
LT3580	2.5	32	–42	2.0	200kHz to 2.5MHz	1mA	<1	3×3 DFN-8, MSOP-8	I	42V, 2A Switch for Boost or Inverting	$2.00
LT1076/HV	5V	45/64	–35/–45	2.0	100kHz	8.5mA	140	DD-5/7, TO-220	I	HV Version Has V_{IN} to 60V	$5.05
LT3479	2.5	24	–38	3.0	3.5MHz	6.5mA	<1	4×3 DFN-14 TSSOP-16/E	E	Can be Used as Inverter or Boost	$3.00
LT1074/HV	5V	45/64	–35/–45	5.0/2.0	100kHz	8.5mA	140	DD-5/7, TO-220	I	HV Version Has V_{IN} to 60V	$5.05
Controllers[1]											
LT1619	1.9	18	–3, –5 and lower	5	300kHz to 550kHz	140	40	MSOP-8, SO-8	E	Low V_{IN}, Synchronizable	$1.99
LTC1871/-1	2.5	36	–3, –5 and lower	10	50kHz to 1MHz	550	20	MSOP-10	E, I, H	No R_{SENSE}, Burst Mode Operation	$2.55
LTC3704	2.5	36	–3, –5 and lower	10	50kHz to 1MHz	550	10	MSOP-10	E, I	No R_{SENSE}, Burst Mode Operation	$1.85

† Primary Sort Column

Note:
1. The maximum output current depends on external components

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

MULTIPLE OUTPUT BUCK (STEP-DOWN)

Part Number	† Number of Converters	Number of Step-Downs	Number of LDOs	Other	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	†† Output Current (A)	Synchronous	PolyPhase	Switching Frequency	Package	Extended Temp Range	Comments	Price 1K Qty
Internal Switch																
LTC3547/B	2	2	0		2.5	5.5	0.6	V_{IN}	0.3×2	yes	–	2.25MHz	2×3 DFN-8	I	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "B" Version Disables Burst Mode Operation	$1.95
LTC3523/-2	2	1	0	Boost (0.6A)	1.8	5.5	0.6	5.25	0.4(Buck)/ 0.25(Boost)	yes	–	1.2/2.4MHz	3×3 QFN-16	E	Synchronous Boost and Buck Converter	$2.95
LTC3522	2	1	0	Buck-Boost (0.4A)	2.4	5.5	0.6	5.5	0.4(BB)/ 0.2(Buck)	yes	–	1MHz	3×3 QFN-10	E	Dual Output, Synchronous 400mA Buck-Boost and a 200mA Buck	$2.50
LTC3541	2	1	1		2.7	5.5	0.8	V_{IN}	0.5(Buck)/ 0.3(LDO)	yes	–	2.25MHz	3×3 DFN-10	E	Synchronous, 100% Duty Cycle, 95% Efficiency, with 0.3A Plus VLDO	$1.95
LTC3419	2	2	0		2.5	5.5	0.6	V_{IN}	0.6×2	yes	–	2.25MHz	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency	$1.95
LTC3407/A	2	2	0		2.5	5.5	0.6	V_{IN}	0.6×2	yes	–	1.5MHz	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "A" Has Soft-Start	$2.60
LT3509	2	2	0		3.7	36/60	0.8	$0.9V_{IN}$	0.7×2	–	–	250kHz to 2.5MHz	4×3 DFN-14	E, I, H	Dual, OV Lockout Provides 60V Transient Protection, Integrated Boost Diodes	$2.95
LTC3548/-1/-2	2	2	0		2.5	5.5	0.6	V_{IN}	0.8/0.4	yes	–	2.25MHz	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; "Plain" Has Adj. Outputs, "-1" Has Fixed 1.8V and 1.575V Outputs, "-2" Has Fixed 1.2V and Adjustable Outputs	$2.60
LTC3552/-1	2	2	0		2.5	5.5	0.6	5	0.8/0.4	yes	–	2.25MHz	5×3 DFN-16	E	Dual Output, Adj 800mA and 400mA Bucks, 950mA Linear Battery Charger, 92% Efficiency. "-1" Has Fixed 1.8V and 1.575V Outputs	$2.30
LTC3407-x/A-2	2	2	0		2.5	5.5	0.6	V_{IN}	0.8×2	yes	–	2.25MHz	MSOP-10E, 3×3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; "-2" Version of LTC3407 Increases I_{OUT} to 0.8A, "A" Has Soft-Start, "-4" Has Reduced POR Time, "-3" Has Fixed 1.8V and 3.3V Outputs	$2.95
LTC3417	2	2	0		2.25	5.5	0.8	V_{IN}	1.4/0.8	yes	–	600kHz to 4MHz	TSSOP-20E, 5×3 DFN-20	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$3.35
LT3508	2	2	0		3.7	36	0.8	$0.9V_{IN}$	1.4×2	–	–	250kHz to 2.5MHz	4×4 QFN-24, TSSOP-16E	I	Dual 2A, 36V Switches in TSSOP-16E	$3.35
LT1940	2	2	0		3.6	25	1.25	$0.9V_{IN}$	1.4×2	–	–	1.1MHz	TSSOP-16E	E	Dual Switches in Single TSSOP-16E	$3.70
LT1940L	2	2	0		3.6	7	1.25	$0.9V_{IN}$	1.4×2	–	–	1.1MHz	TSSOP-16E	E	Dual Internal Switches, 7V max V_{IN}	$2.70
LTC3417A	2	2	0		2.25	5.5	0.8	V_{IN}	1.5/1	yes	–	600kHz to 4MHz	TSSOP-20E, 5×3 DFN-20	E	Synchronous, 100% Duty Cycle, 95% Efficiency	$3.45
LT3506/A	2	2	0		3.6	25	0.8	$0.9V_{IN}$	1.6×2	–	–	575kHz/ 1.1MHz	TSSOP-16E, 5×4 DFN-16	E	Dual Switches in TSSOP-16E or DFN	$2.95
LT1939	2	1	1		3	25	0.8	$0.9V_{IN}$	2 (Buck)/5 (LDO)[1]	–	–	250kHz to 2.2MHz	3×3 DFN-10	E, I, H	2A 25V Step-Down with LDO Controller	$3.05
LT3500	2	1	1		3	36	0.8	$0.9V_{IN}$	2 (Buck)/5 (LDO)[1]	–	–	250kHz to 2.2MHz	3×3 DFN-10	E, I	2A 36V Step-Down with LDO Controller	$3.25
LT3510	2	2	0		3.3	25	0.8	$0.9V_{IN}$	2.0×2	–	–	250kHz to 1.5MHz	TSSOP-20E	E	Dual 2.5A Switches in TSSOP-20E, Tracking	$3.25
LT3501	2	2	0		3.3	25	0.8	$0.9V_{IN}$	3.0×2	–	–	250kHz to 1.5MHz	TSSOP-20E	E	Dual 3.5A Switches in TSSOP-20E	$3.50
LTC3100	3	1	1	Boost (0.7A)	0.7	5	0.6	5.25	0.25 (Buck)/0.1 (LDO)/0.7 (Boost)	yes	–	1.5MHz	3×3 QFN-10	E	Boost with LDO on Output Plus Buck	$3.10
LTC3670	3	1	2		2.5	5.5	0.8	V_{IN}	0.4(Buck)/ 0.15(LDO) × 2	yes	–	2.25MHz	2×3 DFN-12	E	Triple Output with Two Low Noise LDOs	$1.95
LTC3672B	3	1	2		2.9	5.5	1.2	V_{IN}	0.4(Buck)/ 0.15(LDO) × 2	yes	–	2.25MHz	2×3 DFN-8	E	Triple Output with Two Low Noise LDOs, Fixed 1.2V and 2.8V Outputs	$1.95
LTC3445	3	1	2		2.5	5.5	0.85	1.55	0.6(Buck)/ 0.05(LDO) × 2	yes	–	1.5MHz	4×4 QFN-24	E	I^2C Controllable Output Voltage	
LTC3545/-1	3	3	0		2.25	5.5	0.6	V_{IN}	0.8×3	yes	–	2.25MHz	3×3 QFN-16	E	Triple Synchronous, 95% Efficiency; "-1" Forces Burst Mode Operation and Has PGOOD Pin In Place Of SYNC	$3.10
LTC3520	3	1	1	Buck-Boost (1A)	2.2	5.5	0.6	V_{IN}	1.0(BB)/0.6(Buck)	yes	–	1.1MHz	4×4 QFN-24	E	1A Synchronous Buck-Boost, 0.6A Buck and LDO Controller	$3.50
LTC3446	3	1	2		2.7	5.5	0.4	V_{IN}	1.0(Buck)/ 0.3(LDO) × 2	yes	–	2.25MHz	4×3 DFN-14	E	Synchronous, 100% Duty Cycle, 95% Efficiency, Plus Dual LDOs	$2.75
LTC3569	**3**	**3**	**0**		**2.5**	**5.5**	**0.425**	**V_{IN}**	**1.2 & 0.6×2**	**yes**	**–**	**1MHz to 3MHz**	**3×3 QFN-20, TSSOP-16E**	**E, I**	**Triple, Synchronous, 100% Duty Cycle, PGOOD Pin, Programmble VFB Servo Voltage**	**$3.10**
LT3570	**3**	**1**	**1**	**Boost (1.5A)**	**2.5**	**36/40**	**0.8**	**0.95 V_{IN}**	**1.5(Buck)/ 1.5(Boost)/LDO**	**–**	**–**	**500kHz to 2.1MHz**	**4×4 QFN-24, TSSOP-20E**	**I, E**	**Synchronizable to 2.5MHz Boost Converter Has 60V Max V_{SWITCH}, LDO Controller Drives External NPN**	**$2.95**

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Number of Converters	Number of Step-Downs	Number of LDOs	Other	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	†† Output Current (A)	Synchronous	PolyPhase	Switching Frequency	Package	Extended Temp Range	Comments	Price 1K Qty
LT1941	3	2	0	Boost/Inv	3.5	25	0.6	$V_{IN}\times0.9$	2.5 & 1.5 (Bucks) & 0.5 (Boost/Inv)	–	–	1.1MHz	TSSOP-28E	E	Integrated Power Sequencing, Soft-Start	$5.25
LTC3544/B	4	4	0		2.25	5.5	0.8	V_{IN}	0.3/0.2/0.2/0.1	yes	–	2.25MHz	3×3 QFN-16	E	Quad Output, Synchronous, 100% Duty Cycle, 96% Efficiency. "B" Has Burst Mode Operation Disabled	$2.95
LTC3562	4	4	0		2.9	5.5	0.6	V_{IN}	0.6×2/0.4×2	yes	–	2.25MHz	3×3 QFN-20	E	Quad Output with I^2C Interface, Synchronous, 100% Duty Cycle, 96% Efficiency	$3.25
LT3507	4	3	1		4	40	0.8	$0.9V_{IN}$	2.4/1.5/1.5	–	–	250kHz to 2.5MHz	5×7 QFN-38	H	Triple Output Plus LDO Controller	$4.25
External Switch[2]																
LTC3700	2	1	1		2.65	9.8	0.8	V_{IN}	5/0.15	–	–	550kHz	MSOP-10	E	Onboard LDO	$2.35
LTC3736/-1/-2	2	2	0		2.75	9.8	0.6	V_{IN}	5×2	yes	2	260kHz to 825kHz	4×4 QFN-24, SSOP-24	E	Dual, 2-Phase, Output Tracking. Burst Mode Operation at Light Loads. "-1" and "-2" Pulse-Skipping at Light Loads, "-1" Has Spread Spectrum	$3.80
LTC3701	2	2	0		2.5	10	0.8	V_{IN}	5×2	–	2	300kHz to 750kHz	SSOP-16	E	Very Low V_{IN}, Non-Synchronous	$3.40
LTC3737	2	2	0		2.75	9.8	0.6	V_{IN}	5×2	–	2	260kHz to 825kHz	4×4 QFN-24, SSOP-24	E	Output Tracking	$3.65
LT3742	2	2	0		3.5	30	0.8	V_{IN}	5×2	–	2	500kHz	4×4 QFN-24	E	100% Duty Cycle, High Output Voltage, Capacitor Charger	$2.30
LTC3713	2	1	0	Boost	1.5	36	0.8	$0.9V_{IN}$	20/0.13 (Boost)	yes	–	200kHz to 1.5MHz	SSOP-24	E	Provides its Own 5V for N-CH MOSFET Gate Drive	$4.10
LTC3836	2	2	0		2.75	4.5	0.6	$0.97V_{IN}$	20×2	yes	2	300kHz to 750kHz	4×5 QFN, SSOP-28	E	Low V_{IN}, Synchronous, No R_{SENSE} PLL	$2.75
LTC1702A	2	2	0		3	7	0.8	7	20×2	yes	2	550kHz	SSOP-24	I	Voltage Mode	$4.75
LTC1703	2	2	0		3	7	0.8	7	20×2	yes	2	550kHz	SSOP-24	I	Voltage Mode; 5-bit V_{ID} Interface	$5.20
LTC3802	2	2	0		3	30	0.6	$0.9V_{IN}$	20×2	yes	2	330kHz to 750kHz	5×5 QFN, SSOP-28	E	Programmable Up/Down Tracking	$4.80
LTC1704	2	1	1		3.15	5.5	0.8	6	20/2[1]	yes	–	550kHz	SSOP-16	E	Voltage Mode Plus LDO Controller	$4.10
LTC3850/-1/-2	2	2	0		4	24,30	0.8	5.5	25×2	yes	2	250kHz to 750kHz	4×4 QFN-28, 4×5 QFN-28, SSOP-28	E, I	Tracking, PLL, Synchronizable, Adj Soft-Start, "-1" (SSOP-28 Only) Has $EXTV_{CC}$ in Place of I_{LIM}. "-2" Has High Reliability Pinout	$2.40
LTC3826	2	2	0		4	36	0.8	10	25×2	yes	2	140kHz to 650kHz	5×5 QFN-32	E, I	Ultralow 50µA I_Q with Both Channels Active	$5.50
LTC3826-1	2	2	0		4	36	0.8	10	25×2	yes	2	140kHz to 650kHz	SSOP-28	E, I	Ultralow 50µA I_Q with PolyPhase	$5.38
LTC3827/-1	2	2	0		4	36	0.8	10	25×2	yes	2	550kHz	5×5 QFN-32 (plain), SSOP-28 (-1)	E, I	160µA I_Q, PLL Input, PGOOD. "Plain" Version Has Current Foldback Disable	$5.10
LTC3828	2	2	0		4	30	0.8	7	25×2	yes	2 to 6	550kHz	5×5 QFN-32, SSOP-28	E	Onboard Tracking	$4.65
LTC1628	2	2	0		4.5	36	0.8	6	25×2	yes	2	150kHz to 300kHz	5×5 QFN-32, SSOP-28	I	"-PG" Version Adds Power Good Signal. "-SYNC" Version Adds PLL Input	$4.45
LTC3727/-1/A-1	2	2	0		4.5	36	0.8	14	25×2	yes	2	250kHz to 550kHz	SSOP-28	E	>5V V_{OUT} Range, "-1" Disables Overcurrent Latch-Off, "A" Grade Has Improved Performance	$4.85
LTC3727LX-1	2	2	0		4.5	32	0.8	14	25×2	yes	2	250kHz to 550kHz	SSOP-28, 5×5 QFN-32	E	LTC3727-1 with Relaxed Ref Accuracy (1.5%), Lower V_{IN} Range	$4.35
LTC3728	2	2	0		4.5	36	0.8	5.5	25×2	yes	2	250kHz to 550kHz	SSOP-28, 5×5 QFN-32	E, I	Like LTC3728L but with Higher Input Voltage	$5.00
LTC3728L/LX/L-1	2	2	0		4.5	28,35	0.8	5.5	25×2	yes	2	250kHz to 550kHz	5×5 QFN, SSOP-28	E, I	Lower V_{IN} Version of the LTC3728, "LX" Has 0°C to 85°C Operation, "L-1" Has Overcurrent Latchoff Disabled	$4.40
LTC3707/-SYNC	2	2	0		4.5	30	0.8	6	25×2	yes	2	150kHz to 300kHz	SSOP-28	E, I	Low V_{IN} Version of LTC1628. "-SYNC" Version Has PLL Input	$4.45
LTC3708	2	2	0		4	36	0.6	$0.9V_{IN}$	25×2	yes	2	85ns t_{ON} Min	5×5 QFN-32	E	Output Tracking; Fast Transient Response	$4.80
LTC1876	3	2	0	Boost	2.5	36	0.8	6	25×2/1.0	yes	2	150kHz to 300kHz	SSOP-36	E	Very Low V_{IN}, High Output Current	$5.95
LTC1705	3	2	1		3.15	5.5	0.9	2	20×2/0.15	yes	–	550kHz	SSOP-28	E		$5.35
LTC3773	3	3	0		3.3	36	0.6	5	20×3	yes	1 to 3	160kHz to 700kHz	5×7 DFN-36, SSOP-36	E	3-Phase Controller with Tracking	$3.95
LTC3853	3	3	0		4.5	24	0.8	5.5	25×3	yes	3	250kHz to 750kHz	6×6 QFN-40	E, I	Tracking, PLL, 98% Duty Cycle and Adj Soft-Start	$3.53

† Primary Sort Column
†† Secondary Sort Column

Notes:
1. LDO Controller output current depends on external components
2. Voltage and current depend on the choice of external components

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

MULTIPLE OUTPUT BOOST/INVERTERS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current[1] (A)	† Switch Current[2] (A)	Switch Configuration	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3450	1.4	4.6	±15	0.07 *V_{IN}/V_{OUT}	0.09	Internal	550kHz	75	<2	3×3 DFN-16	E	Triple Output for TFT-LCD Applications	$2.50
LT1942	2.6	16	36/45	0.10 *V_{IN}/V_{OUT}	0.15	Internal	1MHz	7	<1	4×4 QFN-24	E	Quad; Dual Boost Plus Inverter for TFT LCD, Boost for LED Driver	$2.75
LT1944-1	1.2	15	34	0.15 *V_{IN}/V_{OUT}	0.18×2	Internal	Constant Off-Time	20	<1	MSOP-10	E	Dual 350mA and 150mA Boost Converters in Single Package	$2.00
LT3463	2.4	15	±40	0.21 *V_{IN}/V_{OUT}	0.25×2	Internal	Constant Off-Time	20	<1	3×3 DFN-10	E	Dual Boost/Inverter V_{OUT} Up to ±40V, Integrated Schottkys	$1.95
LT1945	1.2	15	±34	0.21 *V_{IN}/V_{OUT}	0.35×2	Internal	Constant Off-Time	20	<1	MSOP-10	E	Dual 250mA, @ ±34V Boost Converters in Single Package	$2.06
LT1944	1.2	15	34	0.29 *V_{IN}/V_{OUT}	0.35×2	Internal	Constant Off-Time	20	<1	MSOP-10	E	Dual 350mA Boost Converters in Single Package	$2.00
LT3463A	2.4	15	±40	0.29 *V_{IN}/V_{OUT}	0.4/0.25	Internal	Constant Off-Time	40	<1	3×3 DFN-10	E	Dual Boost/Inverter V_{OUT} Up to ±40V, Integrated Schottkys, Negative Output Has I_{SW}=400mA	$1.95
LT3472	2.2	16	±40	0.29 *V_{IN}/V_{OUT}	0.4/0.35	Internal	1.2MHz	2.8mA	<1	3×3 DFN-10	E	Dual Boost/Inverter Converter in Single Package—Ideal for CCD Biasing, Internal Schottkys, 350mA/400mA I_{sw}	$1.95
LTC3524	2.5	6	±20	0.33 *V_{IN}/V_{OUT}	0.5/0.15	Internal	1.5MHz	4mA	<1	4×4 QFN-24	E	Quad (0.5A Boost LED Driver, 0.15A Boost, ±Charge Pump) Provides LCD Bias and Drives LEDs	$2.25
LTC3535	**0.5**	**5**	**5.25**	**0.36* V_{IN}/V_{OUT}**	**0.55×2**	**Internal**	**1MHz**	**9**	**<1**	**3×3 DFN-12**	**E**	**Dual Micropower Boost Converter with Output Disconnect, Soft-Start. Regulates for $V_{IN}>V_{OUT}$**	**$2.95**
LTC3523/-2	1.8	5.5	5.5	0.39 * V_{IN}/V_{OUT}	0.6	Internal	1.2/2.4MHz	45	<1	3×3 QFN-16	E	Synchronous Boost and Buck Converter, "-2" Has 2.4MHz Switching	$2.95
LTC3537	0.7	5.25	5.5	0.39 * V_{IN}/V_{OUT}	0.6	Internal	2.2MHz	30	<1	3×3 QFN-16	E	Synchronous Boost Converter and LDO	$2.40
LTC3527/-1	0.7	5.25	5.5	0.52 * V_{IN}/V_{OUT}	0.8/0.4	Internal	1.2 or 2.2MHz	12	<1	3×3 QFN-16	E	Dual Synchronous Outputs, "-1" Quickly Discharges V_{OUT} When Entering Shutdown	$2.95
LT3487	2.3	16	28	0.59 *V_{IN}/V_{OUT}	0.9/0.75	Internal	2MHz	3.7mA	<5.3	3×3 DFN-10	E	Dual Boost/Inverter	$2.30
LT3587	2.5	6	32	0.59 *V_{IN}/V_{OUT}	0.9/0.8/ 0.4	Internal	1MHz	2.4mA	<5.5	3×3 QFN-20	E	Dual Boost (0.9A and 0.4A) Plus 0.8A Inverter	$2.95
LT1947	2.6	8	34	0.72 *V_{IN}/V_{OUT}	1.1	Internal	3MHz	9.5mA	<1	MSOP-10/E	E	Triple Output for TFT-LCD Applications	$2.50
LT3471	2.4	16	±40	0.85 *V_{IN}/V_{OUT}	1.3/1.3	Internal	1.2MHz	2.5mA	<1	3×3 DFN-10	E	Dual 1.3A @ ±40V Dual Boost (or Dual Inverter or Boost-Inverter) in Single Package	$2.80
LT3570	**2.5**	**36**	**60**	**0.98* V_{IN}/V_{OUT}**	**1.5/ 1.5(Buck)**	**Internal**	**500kHz to 2.5MHz**	**7mA**	**<1.5**	**4×4 QFN-24, TSSOP-20E**	**I, E**	**Triple Output (1.5A Boost, 1.5A Buck, LDO Controller), Soft-Start, Synchronizable to 2.5MHz, Boost Converter Has 60V Max V_{SWITCH}**	**$2.95**
LT3513	4.5	30	40	0.98*V_{IN}/V_{OUT}	1.5/0.25/ 0.25(Inv)/ 2.2(Buck)	Internal	2MHz	7.5mA	<30	5×7 QFN-38	I	High Current Five Output Regulator for TFT LCD Displays	$4.25
LT1943	4.5	22	40	1.69 *V_{IN}/V_{OUT}	2.6/0.35/ 2.4(Buck)/ 0.35(Inv)	Internal	1.2MHz	10mA	<1	TSSOP-28E	E	High Current Quad Output Regulator for TFT-LCD Displays	$4.75

† Primary Sort Column

Notes:
1. Output current is calculated using the equation $0.65 \times I_{SWITCH} \times (V_{IN}/V_{OUT})$ = estimated I_{OUT}. This value is an estimate and can vary depending on external component choices.
2. For buck converters, the current listed is the output current.

SYNCHRONOUS BUCK-BOOST

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Output Current[1] (A)	Switch Current (A)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Synchronous	Package	Extended Temp Range	Comments	Price 1K Qty
Monolithics														
LTC3531	1.8	5.5	2.0	5	0.2	0.5	600kHz	16	<1	yes	3×3 DFN-8, ThinSOT™	E	Adjustable or Fixed 3V or 3.3V Output	$1.95
LT3433	4.0	60	3.3	20	0.4 or 0.2	0.5	200kHz	100	<1	–	TSSOP-16E	E	True Buck-Boost, V_{IN}: 4V-60V, V_{OUT}: 3.3V-20V	$3.25
LTC3444	2.7	5.5	0.5	5	0.4	0.6	1.5MHz	700	<1	yes	3×3 DFN-8	E	Ideal for WCDMA PA Applications	$2.40
LTC3522	2.4	5.5	0.6	5.5	0.4/0.2	0.8	1MHz	25	<1	yes	3×3 QFN-10	E	Dual Output-Synchronous 400mA Buck-Boost and a 200mA Buck	$2.50
LTC3452	2.7	5.5	2.4	4.5	0.43	1.0	1MHz	600	7	yes	4×4 QFN-20	E	True Buck-Boost Topology, 2 Camera /5 Main LEDs	$1.80
LTC3532	2.4	5.5	2.5	5.25	0.5	0.9	2MHz	35	<1	yes	MSOP-10, 3×3 DFN-10	E	True Buck-Boost Topology, Ideal for Single Cell Li-Ion to 3.3V_{OUT} Applications	$2.35
LTC3440	2.5	5.5	2.5	5.5	0.6	1.0	300kHz to 2MHz	25	<1	yes	MSOP-10, 3×3 DFN-10	E	True Buck-Boost Topology, Ideal for Single Cell Li-Ion to 3.3V_{OUT} Applications	$2.74
LTC3530	1.8	5.5	1.8	5.25	0.6	1.0	300kHz to 2MHz	40	<1	yes	MSOP-10, 3×3 DFN-10	E	True Buck-Boost Topology, Ideal for Single Cell Li-Ion and Dual Alkaline to 3.3V_{OUT} Applications	$2.75
LTC3538	2.4	5.5	1.5	5.25	0.8	1.4	1MHz	35	<1	yes	2×3 DFN-8	E	True Buck-Boost Topology, Ideal for Single Cell Li-Ion to 3.3V_{OUT} Applications	$2.55
LTC3520	2.2	5.5	0.6	5.5	1.0/0.6	1.4	100kHz to 2MHz	55	<1	yes	4×4 QFN-24	E	Dual Output-Synchronous 1A Buck-Boost and a 600mA Buck	$3.50

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Output Current[1] (A)	Switch Current (A)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Synchronous	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3453	2.7	6	2.4	4.5	1.0	1.3	1MHz	2.5mA	<1	yes	4×4 QFN-16	E	High Current LED Driver—Delivers up to 800mA	$2.10
LTC3127	**1.8**	**5.5**	**1.8**	**5.25**	**1.2**	**1.7**	**1.2MHz**	**18**	**<1**	**yes**	**3×3 DFN-10, MSOP-10E**	**E**	**True Buck-Boost Topology, Programmable Avg Input Current Limit, Output Disconnect**	**C.F.**
LTC3441	2.4	5.5	2.4	5.25	1.2	2.0	1MHz	50	<1	yes	4×3 DFN-12	E	True Buck-Boost Topology, Ideal for Single Cell Li-Ion to 3.3V_{OUT} Applications	$3.55
LTC3442	2.4	5.5	2.4	5.25	1.2	2.0	300kHz to 2MHz	35	<1	yes	4×3 DFN-12	E	True Buck-Boost Topology, Adj. Burst Mode Operation, Current Limit	$3.95
LTC3443	2.4	5.5	2.4	5.25	1.2	2.0	600kHz	28	<1	yes	4×3 DFN-12	E	True Buck-Boost Topology, High Efficiency at Light Loads	$3.55
LTC3533	1.8	5.5	1.8	5.25	2.0	3.5	300kHz to 2MHz	40	<1	yes	4×3 DFN-14	E	True Buck-Boost Topology, High Efficiency at Light Loads	$3.55
Controllers														
LTC3785	2.7	10	2.7	10	10[2]	–[2]	100kHz to 1MHz	86	8	yes	4×4 QFN-24	E	4-Switch, High Efficiency Controller	$3.56
LTC3785-1	2.7	10	2.7	10	10[2]	–[2]	100kHz to 1MHz	86	8	yes	4×4 QFN-24	E	4-Switch, High Efficiency Controller, with Power Good Output	$3.75
LTC3780	4.0	36	0.8	30	20[2]	–[2]	200kHz to 400kHz	2.4mA	55	yes	5×5 QFN, SSOP-24	E, I, MP	4-Switch, High Efficiency Controller	$4.65

† Primary Sort Column

Notes:
1. Estimated value
2. Depends on external MOSFET selection

SEPIC

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	† Switch Current (A)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Comments	Price 1K Qty
Monolithics										
LT1615-1	1	15	34	0.08	Constant Off-Time	20	<1	ThinSOT	Operates with V_{IN} to 1V, -1 Version Has 75mA Current Limit	$1.65
LT3464	2.3	10	34	0.085	Constant Off-Time	25	<1	ThinSOT	Integrated Schottky Diode and Output Disconnect	$1.50
LT3463/A	2.4	15	40	0.25/0.4	Constant Off-Time	40	<1	3×3 DFN-10	Dual with Integrated Schottky Diodes	$1.95
LT1615	1	15	34	0.3	Constant Off-Time	20	<1	ThinSOT	Operates with V_{IN} to 1V, LT1615 Has 350mA Current Limit	$1.65
LT3461	2.5	16	38	0.3	1.3/3MHz	2.8mA	<1	ThinSOT	300mA Switch with Integrated Schottkys in ThinSOT, V_{OUT} to 38V	$1.65
LT3460	2.5	16	36	0.32	1.3MHz	2mA	<1	SC70, ThinSOT	320mA Switch in SC70, V_{OUT} to 36V	$1.60
LT3472	2.2	16	34	0.35/0.4	1.2MHz	2.8mA	<1	3×3 DFN-10	Dual with Dual Integrated Schottky Diodes	$1.95
LT1610	0.9	8	28	0.45	1.7MHz	30	<1	MSOP-8, SO-8	Operates with V_{IN} to 0.9V, V_{OUT} to 28V	$1.65
LT1316	1.5	12	28	0.50	Constant Off-Time	33	<3	MSOP-8, SO-8	Programmable Input Current Limit, Low Battery Detect	$2.45
LT1613	0.9	10	34	0.55	1.4MHz	3mA	<1	ThinSOT	Operates with V_{IN} to 0.9V, V_{OUT} to 34V, Ideal for SEPIC	$1.60
LT1307/B	1	12	28	0.60	600kHz	50/1mA	<1	MSOP-8, DIP-8, SO-8	B Version Disables Burst Mode Operation, Low Battery Detector	$2.05
LT1317/B	1.5	12	28	0.66	600kHz	100/4.8mA	<30/28	MSOP-8, SO-8	B Version Disables Burst Mode Operation, Low Battery Detector	$2.25
LT1300	1.8	10	20	0.75	155kHz	120	<10	DIP-8, SO-8	Programmable Peak Current Limit, Programmable 5V, 3.3V or Adj Output, Low Battery Detect	$2.45
LT1301	1.8	10	20	0.75	155kHz	120	<10	DIP-8, SO-8	Programmable Peak Current Limit, Programmable 5V or 3.3V Output	$2.45
LT1303	1.8	10	20	0.75	155kHz	120	<10	DIP-8, SO-8	Programmable Peak Current Limit, Programmable 5V or 12V Output	$2.45
LT1304	1.5	8	25	0.8	300kHz	120	<10	SO-8	Programmable Peak Current Limit, Low Battery Detect, 5V or Adj. Output	$2.45
LT1930/A	2.6	16	34	1	1.2MHz/2.2MHz	5.5mA	<1	ThinSOT	Pin-for-Pin Compatible with LT1613, Wide V_{IN} Range	$1.90
LT1949	1.5	12	28	1	600kHz/1.1MHz	4.5mA	<25	MSOP-8, SO-8	Operates with V_{IN} to 1.5V, Low Battery Detect	$2.25
LT3467/A	2.4	16	40	1.1	1.3/2.1MHz	1mA	<1	ThinSOT	Soft-Start, Pin-to-Pin Comp with LT1930/LT1613	$1.90
LT1961	3	25	34	1.5	1.25MHz	0.9mA	<6	MSOP-8E		$1.69
LT1618	1.6	18	35	1.5	1.4MHz	1.8mA	<1	MSOP-10	Constant Current/Voltage	$1.75
LT3580	2.5	32	42	2	200kHz to 2.5MHz	1mA	<1	3×3 DFN-8, MSOP-8	42V, 2A Switch for Boost or Inverting	$2.00
LT1302	2	8	24	2	400kHz	200	<15	SO-8, DIP-8	Logic Controlled Shutdown, Adj or Fixed 5V	$3.25
LT1308A/B	1	10	30	2	600kHz	100	<5	SO-8	Ideal for Single Cell AA, /B Version Disables Burst Mode Operation, Low Battery Detector	$3.25
LT1935	2.3	16	40	2	1.2MHz	3mA	<1	ThinSOT	2A Switch in ThinSOT	$2.44
LT3477	2.5	25	40	3	3.5MHz	2.6mA	<1	4×4 QFN-20, TSSOP-20E	Two Rail-to-Rail Current Sense Amps	$3.15
LT3436	3	25	34	3	800kHz	0.9mA	<1	TSSOP-16E	3A, 34V Internal Switch	$2.75
LT1370/HV	2.7	30	35/42	6	500kHz	4.5mA	<12	DD, TO-220	Regulates Positive or Negative Outputs, Synchronizable	$6.05

† Primary Sort Column

SEPIC

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	† Switch Current (A)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Comments	Price 1K Qty
Controllers										
LTC3872	2.75	9.8	8	3	550kHz	250	<20	ThinSOT-8, 3×2 DFN-8	No R_{SENSE}, Pulse-Skipping at Light Loads	$1.80
LT1619	1.9	18	15	3	300kHz to 550kHz	9mA	<40	MSOP-8, SO-8	Low V_{IN} Capability	$1.99
LTC1624	3.5	36	30	3	200kHz	550	<30	SO-8	Wide V_{IN} Range, Burst Mode Operation	$3.50
LTC3803/-3	9.2	75(1)	52	3	200kHz or 300kHz	240	<10	ThinSOT-6	Small Package, Programmable Slope Compensation	$1.12
LTC3803-5	5.7	75(1)	52	3	200kHz	240	<10	ThinSOT-6	Small Package, Programmable Slope Compensation	$1.12
LTC3873	8.8	75(1)	52	3	200kHz	300	<100	ThinSOT, DFN-8	No R_{SENSE}, Constant Frequency	$1.25
LTC3873-5	4	75(1)	52	3	200kHz	300	<80	ThinSOT, DFN-8	No R_{SENSE}, Constant Frequency	$1.25
LTC3805	8.8	75(1)	52	3	70kHz to 700kHz	360	<40	3×3 DFN-10, MSOP-10	Synchronizable, Programmable Slope Compensation	$1.39
LTC3805-5	4.5	75(1)	52	3	70kHz to 700kHz	360	<40	3×3 DFN-10, MSOP-10	Synchronizable, Programmable Slope Compensation	$1.39
LTC1871-1	2.5	36	30	3	50kHz to 1MHz	250	<10	MSOP-10	Boost Controller, Burst Mode Operation Begins at a Lighter Load than the LTC1871	$2.55
LTC1871-7	6	36	30	3	50kHz to 1MHz	250	<10	MSOP-10	Boost Controller, Drives 6V Gate MOSFETs	$2.55
LTC1871	2.5	36	30	3	50kHz to 1MHz	250	<10	MSOP-10	Boost Controller, E, I and H Grades	$2.55
LT3844	4	60	36	3	100kHz to 600kHz	80	<15	TSSOP-16	Very Low Quiescent Current	$3.10
LT3724	4	60	36	3	200kHz	1.7mA	<10	TSSOP-16	Also Buck and Boost	$3.10
LT1950	3	75(1)	52	3	100kHz to 500kHz	2.3mA	<20	SSOP-16	Programmable Slope Compensation	$2.90

† Primary Sort Column

Note:
1. Depends on external components

CCFL BACKLIGHT AND LCD BIAS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current(1) (A)	† Switch Current (A)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT1615-1	1	15	34	0.06 *V_{IN}/V_{OUT}	0.08	Constant Off-Time	20	<1	ThinSOT	E	Operates with V_{IN} to 1V, -1 Version Has 75mA Current Limit	$1.65
LT3464	2.3	10	34	0.06 *V_{IN}/V_{OUT}	0.085	Constant Off-Time	25	<1	ThinSOT	E	Integrated Schottky Diode and Output Disconnect	$1.50
LTC3450	1.4	4.6	±15	0.07 *V_{IN}/V_{OUT}	0.09	550kHz	75	<2	3×3 DFN-16	E	Triple Output for TFT-LCD Applications	$2.50
LT1944-1	1.2	15	34	0.15 *V_{IN}/V_{OUT}	0.18×2	Constant Off-Time	20	<1	MSOP-10	E	Dual 350mA and 150mA Boost Converters in Single Package	$2.00
LT1945	1.2	15	±34	0.21 *V_{IN}/V_{OUT}	0.25×2	Constant Off-Time	20	<1	MSOP-10	E	Dual 350mA, @ ±34V Boost Converters in Single Package	$2.06
LT3463/A	2.3	15	±34	0.29 *V_{IN}/V_{OUT}	0.25/0.4	Constant Off-Time	40	<1	DFN-10	E	Dual 400mA/250mA (400mA for "A") Internal Schottkys. Boost/Inverter Converters in Single Package—Ideal for CCD Biasing	$1.95
LT3461/A	2.5	16	38	0.20 *V_{IN}/V_{OUT}	0.3	1.3/3MHz	2.8mA	<1	ThinSOT	E	Integrated Schottky Diode, Soft-Start	$1.65
LT1615	1	15	34	0.25 *V_{IN}/V_{OUT}	0.3	Constant Off-Time	20	<1	ThinSOT	E	Operates with V_{IN} to 1V, LT1615 Has 350mA Current Limit	$1.65
LT1617	1.2	15	-34	0.29 *V_{IN}/V_{OUT}	0.35	Constant Off-Time	20	<1	ThinSOT	E	V_{OUT} Up to –34V, -1 Version Has a 100mA Current Limit	$1.65
LT1944	1.2	15	34	0.29 *V_{IN}/V_{OUT}	0.35×2	Constant Off-Time	20	<1	MSOP-10	E	Dual 350mA Boost Converts in Single Package Current Limit	$1.65
LT3472	2.2	16	±40	0.29 *V_{IN}/V_{OUT}	0.35/0.4	1.2MHz	2.8mA	<1	3×3 DFN-10	E	Dual 250mA/250mA Internal Schottkys. Boost/Inverter Converters in Single Package—Ideal for CCD Biasing	$1.95
LT1173	2.0	30	50	0.33 *V_{IN}/V_{OUT}	0.4	23kHz	110	n/a	DIP-8, SO-8		Can Use as Step-Up or Step-Down, 5V or 12V or Adj. Output	$2.30
LT1610	0.9	8	28	0.37 *V_{IN}/V_{OUT}	0.45	1.7MHz	30	<1	MSOP-8, SO-8	I	Operates with V_{IN} to 0.9V, V_{OUT} to 28V	$1.65
LT1316	1.5	12	28	0.42 *V_{IN}/V_{OUT}	0.5	Constant Off-Time	33	<3	MSOP-8, SO-8	I	Programmable Input Current Limit, Low Battery Detect	$2.45
LT3466	2.7	24.0	42	0.46 *V_{IN}/V_{OUT}	0.55×2	1.0MHz	5mA	<16	3×3 DFN-10, TSSOP-16	E	Dual Outputs/Integrated Schottkys, Soft-Start	$2.20
LT1942	2.6	16.0	36	0.46 *V_{IN}/V_{OUT}	0.55	1.0MHz	7mA	<1	4×4 QFN-24	E	Both LED Driver and TFT Biasing, Integrated Schottkys and Output Disconnect	$2.75
LT1611	1.1	10	–34	0.46 *V_{IN}/V_{OUT}	0.55	1.4MHz	3mA	<1	ThinSOT		Low Noise <1mV_{P-P}	$1.65
LT1613	0.9	10	34	0.46 *V_{IN}/V_{OUT}	0.55	1.4MHz	3mA	<1	ThinSOT		Operates with V_{IN} to 0.9V, V_{OUT} to 34V, Ideal for SEPIC	$1.65
LT1307/B	1.0	12	28	0.50 *V_{IN}/V_{OUT}	0.6	600kHz	50µA/1.1mA	<1	MSOP-8, DIP-8, SO-8	I	/B Version Disables Burst Mode Operation, Low Battery Detector	$2.05
LT1317/B	1.5	12	28	0.55 *V_{IN}/V_{OUT}	0.66	600kHz	100µA/4.8mA	<30/28	MSOP-8, SO-8	I	/B Version Disables Burst Mode Operation, Low Battery Detector	$2.31
LT1614	1.0	12	–24	0.62 *V_{IN}/V_{OUT}	0.75	600kHz	1mA	10	MSOP-8, SO-8	I	V_{IN} to 1V, Low Battery Detect	$2.40

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	Output Current[1] (A)	† Switch Current (A)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT1300	1.8	10	20	0.62 *V_{IN}/V_{OUT}	0.75	155kHz	120	<10	DIP-8, SO-8		Programmable Peak Current Limit, Programmable 5V or 3.3V Output	$2.55
LT1304	1.5	8	25	0.67 *V_{IN}/V_{OUT}	0.8	300kHz	120	<10	SO-8		Programmable Peak Current Limit, Low Battery Detect	$2.45
LT3587	2.5	6	±32		0.8, 0.4, 0.9	1MHz	2.4mA	<5.5	3×3 QFN-20	E	CCD/LCD Bias Plus LED Driver	$2.95
LT1186F	3.5	30	60		0.9	200kHz	6mA	5	SO-16	I	Precision 50µA Full Scale DAC Programming Current CCFL	$5.15
LT1786F	3.5	30	60		0.9	100kHz	6mA	5	SO-16		Precision 100µA Full Scale DAC Programming Current CCFL	$4.25
LTC1697	2.8	5.5	6		0.9	300kHz	0.9mA	2	MSOP-10	E	1W CCFL, Switching Regulator with Internal FETs	$1.95
LT1930/A	2.6	16	34	0.83 *V_{IN}/V_{OUT}	1.0	1.2MHz/2.2MHz	5.5mA	<1	ThinSOT	E	Pin-for-Pin Compatible with LT1613, Wide V_{IN} Range	$1.90
LT1931/A	2.6	16	–34	0.83 *V_{IN}/V_{OUT}	1.0	1.2MHz/2.2MHz	5.8mA	<1	ThinSOT	E	Low Noise <1mV_{P-P}	$2.00
LT1947	2.6	8	30	0.83 *V_{IN}/V_{OUT}	1.0	3MHz	9.5mA	<1	MSOP-10E	E	Triple Output for TFT-LCD Applications	$2.50
LT1949	1.5	12	30	0.83 *V_{IN}/V_{OUT}	1.0	600kHz/1.1MHz	4.5mA	<25	SO-8, MSOP-8	E, I	Operates with V_{IN} to 1.5V, Low Battery Detect	$2.25
LT3467	2.4	16	40	0.72 *V_{IN}/V_{OUT}	1.1	1.3MHz	1mA	<1	ThinSOT	E	Soft-Start Pin-to-Pin Comp with LT1930/LT1613	$1.90
LT1182/ LT1183	3	30	60		1.2	200kHz	9mA	3	SO-16	I	LT1182 for Positive V_{OUT}, LT1183 for Pos/Neg Outputs	$5.15
LT3471	2.4	16	±40	1.10 *V_{IN}/V_{OUT}	1.3×2	1.2MHz	2.5mA	<1	3×3 DFN-10	E	Dual 1.3A @ ±40V Dual Boost/Dual Inverter/Boost, Inverter Converters in Single Package	$2.80
LT1946/A	2.5	16	34	1.25 *V_{IN}/V_{OUT}	1.5	1.2/2.7MHz	3.2mA	<1	MSOP-8	E	Integrated Soft-Start, Ideal for TFT-LCD Applications	$1.75
LT1768	8	24	28		1.5	350kHz	7mA	65	SSOP-16	I	High Power CCFL Controller	$4.05
LT1308A/B	1.0	10	30	1.67 *V_{IN}/V_{OUT}	2.0	600kHz	100	<5	SO-8	I	Ideal for Single Cell AA, B Version Disables Burst Mode Operation, Low Battery Detector	$3.25
LT3489	2.4	16	38	1.95 *V_{IN}/V_{OUT}	2.5	2.2MHz	2mA	<1	MSOP-8E	E	40V, 2.5A Switch at 2.2MHz	$1.95
LT3513	4.5	30	40		2.2, 1.5, 0.25, 0.25	2MHz	7.5mA	<30	5×7 QFN-38	I	Up to 5 Outputs for TFT Biasing	$4.25
LT1943	4.5	22	40	1.69 *V_{IN}/V_{OUT}	2.6	1.2MHz	10mA	<1	TSSOP-28E	E	High Current Quad Output Regulator for TFT LCD Displays	$4.75
LT3436	3	25	34	1.95 *V_{IN}/V_{OUT}	3.0	800kHz	0.9mA	<1	TSSOP-16E	E	3A, 34V Internal Switch	$2.75

† Primary Sort Column

Note:
1. Output current is estimated using the equation in the column, i.e., 006 × V_{IN} / V_{OUT}. This value can vary depending on external component choices.

XENON PHOTO FLASH CHARGERS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	Switch Current (A)	Efficiency	I_Q (I_{SUPPLY}) (mA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3484-0/-1/-2	1.8	16	1.4/0.7/1.0	>75%	5	<1	2×3 DFN-6	E	Smallest Xenon Flash Solution	$2.10
LT3485-0/-1/-2/-3	1.8	10	1.4/1.0/0.7/2.0	>75%	5	<1	3×3 DFN-10	E	Integrated IGBT Driver	$2.25
LT3585-0/-1/-2/-3	1.5	16	0.5/0.23/0.35/0.75	>75%	5	<1	3×2 DFN-10	E	Integrated IGBT Driver, Adjustable Input Current	$1.10
LT3468/-1/-2	2.5	16	1.4/0.7/1.0	>75%	5	<1	ThinSOT	E	Can Charge 100µF Capacitor to 320V in 4.6sec from 3.6V_{IN}, Tiny Transformer	$2.10
LT3750	3.0	24	Ext FET	>75%	1.6	<1	MSOP-10	E	Flyback, Can Charge Any Size Capacitor	$3.50
LT3751	**4.8**	**24**	**Ext FET**	**>84%**	**5.5**	**<1**	**4×5 QFN-20**	**E, I**	**Flyback, Can Charge Any Size Capacitor, UV/OV Detection, Internal Gate Driver Clamp**	**$3.65**
LT3420/-1	1.8	16	1.4/1.0	>75%	90µA	<1	MSOP-10	E	Can Charge 220µF Capacitor to 320V in 3.7sec from 5V, Can Operate from 2 × AA Alkaline Cells or Li-Ion	$2.50

HIGH TEMPERATURE POWER SUPPLIES (T_J = –40°C TO 140°C)

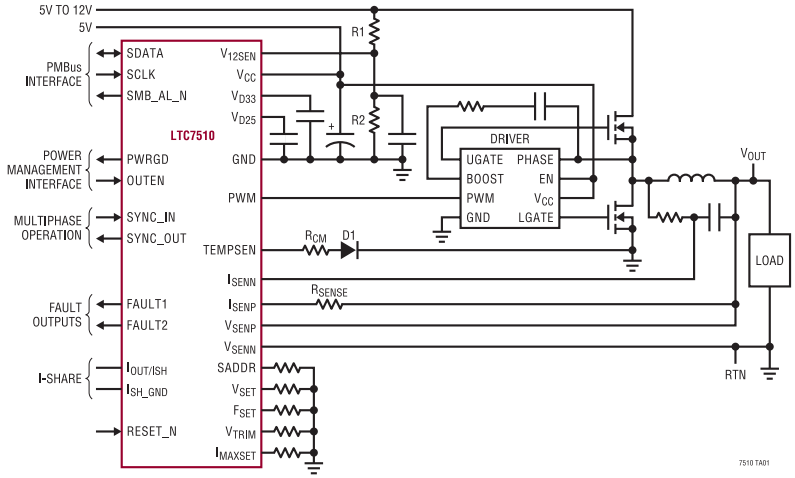
Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max[1] (V)	† Output Current[2] (A)	Switch Current (A)	Switch Configuration	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Temp Range	Comments	Price 1K Qty
LT3010H	1.5	80	1.275	60	0.05	N/A	Internal	N/A	30	<1	MSOP-8	H	Low Noise <100µV_{RMS}, Stable with 1µF Ceramic	$2.05
LT3012H	4.0	80	1.24	60	0.2	N/A	Internal	N/A	40	<1	TSSOP-16	H	Low Noise <100µV_{RMS}, Stable with 3.3µF Ceramic	$2.73
LT3013H	4.0	80	1.24	60	0.2	N/A	Internal	N/A	65	<1	TSSOP-16	H	Power Good, Low Noise <100µV_{RMS}, Stable with 3.3µF Ceramic	$2.95
LT3470H	4.0	40	1.25	16V	0.2	0.25	Internal	Hysteretic	26	<1	2×3 DFN-8, ThinSOT	H	T_{JMAX} = 150°C, Tiny 40V Solution	$3.07
LT3437H	3.3	60	1.25	0.90V_{IN}	0.4	0.5	Internal	200kHz	100	<1	TSSOP-16E	H	60V, I_Q = 100µA	$3.00
LT1933H	3.6	36	1.25	0.90V_{IN}	0.6	0.8	Internal	500kHz	1.2mA	<2	ThinSOT, 2×3 DFN-6	H	36V Input	$2.49
LT3509H	3.7	36	0.8	0.9V_{IN}	0.7×2	1	Internal	250kHz to 2.5MHz	2.8mA	<1	TBD	H	36V Input, Dual 0.7A Outputs	C.F.
LT1766H	5.5	60	1.2	0.90V_{IN}	1.2	1.5	Internal	200kHz	2.5mA	25	TSSOP-16E	H	Fixed 5V Output Option Available	$4.70
LT1976H	3.3	60	1.2	0.90V_{IN}	1.2	1.5	Internal	200kHz	100	<1	TSSOP-16E	H	Micropower Operation	$4.85
LT1936H	3.6	36	1.2	0.87V_{IN}	1.4	1.9	Internal	500kHz	1.9mA	<1	SSOP-36	H	36V Input, 1.9A Switch	$3.55
LT3481H	3.6	34	1.265	20	2.0	3.2	–	300kHz to 2.8MHz	50	<1	3×3 DFN-10, MSOP-10	H	34V, 2A, Micropower Part	$4.15
LT3508H	3.7	36	0.8	0.87V_{IN}	1.4×2	2.0	Internal	250kHz to 2.5MHz	4.6mA	<1	4×4 QFN-24, TSSOP-16E	H	Dual 36V, 1.4A Channels	$4.27
LT3500H	3.6	40	0.8	0.9V_{IN}	2	2.6	Internal + LDO	250kHz to 2.5MHz	2.5mA	<12	3×3 DFN-12	H	40V, 2A Switcher Plus LDO Controller	$4.15
LTC3803H/-5H	7.7/3.9	75[3]	0.8	–[3]	2[3]	–[3]	External	200kHz	350	no spec	ThinSOT-6	H	Flyback Controller with Adjustable Slope Compensation	$1.63
LT3507H	4	40	0.8	0.9V_{IN}	2.4/1.5/1.5	3	Internal	250kHz to 2.5MHz	2mA	<1	5×7 QFN-38	H	40V Input with Triple Outputs and LDO Controller	$5.35
LTC1772H	2.5	9.8	0.8	V_{IN}	5	N/A	External	550kHz	270	<22	ThinSOT	H	Burst Mode at Light Load; Continuous Operation at Light Load	$2.36
LTC1871H	2.5	36	1.23	52	10[3]	–[3]	External	50kHz to 1MHz	550	<20	MSOP-10	H	Boost, Flyback and SEPIC Controller	$3.38
LTC3703H	9.3	100	0.8	0.93V_{IN}	10[3]	–[3]	External	100kHz to 600kHz	1.7mA	<50	SSOP-16, TSSOP-28	H	100V Synchronous Switching Regulator Controller	$3.81
LT3755H	4.5	40		60	20[3]	–[3]	External	100kHz to 1MHz	1.4mA	<1	3×3 QFN-16, MSOP-16E	H	40V Max V_{IN}; Boost, Buck, Buck-Boost or SEPIC; 3000:1 Dimming. "Plain" Has Open LED Status Pin, "-1" Has Frequency Synchronization	C.F.
LT3756H	6.0	100		100	20[3]	–[3]	External	100kHz to 1MHz	1.4mA	<1	3×3 QFN-16, MSOP-16E	H	100V Max V_{IN}; Boost, Buck, Buck-Boost or SEPIC; 3000:1 Dimming. "Plain" Has Open LED Status Pin, "-1" Has Frequency Synchronization	C.F.
LTC3731H	4	36	0.6	7	60 to 200	N/A	External	250kHz to 600kHz	2.3mA	<100	SSOP-36	H	3 to 12 Phases, 1 to 4 Outputs	$5.00
LTC3862H	4/8.5	36	8/12	–[3]	90[3]	–[3]	External	50kHz to 650kHz	1.8mA	<80	SSOP-24, 5×5 QFN-24, TSSOP-24	H	PolyPhase High Power Current Mode Step-Up Controller, "-1" Has Higher Min V_{IN} and 10V Gate Drive	$4.00

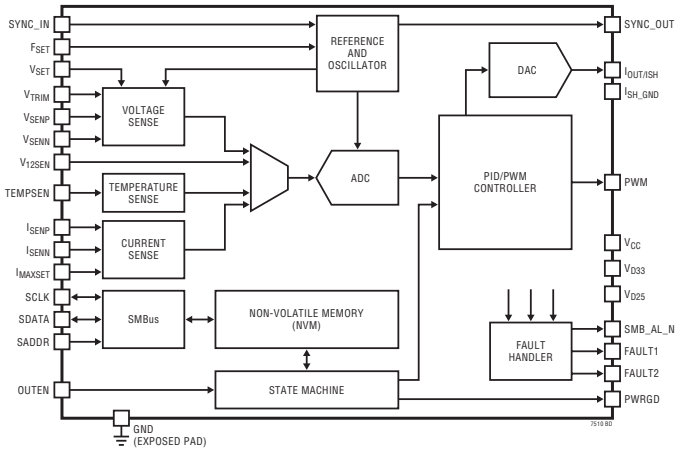
† Primary Sort Column

Notes:
1. Approximate value. See data sheet for detailed information
2. Approximately 80% of Switch Current
3. Depends on external components and design requirements

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{SUPPLY} typ (V)	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	Output Current (A)	Serial Interface	Tracking/ Margining	Architecture	Switching Frequency	Package	Features	Price 1K Qty[1]
LTC7510*	5	5	12	0.7	3.6	10	PMBus	yes	Sync PWM Controller	150kHz to 2MHz	5×5 QFN-32	Digital Control Loop, Integrated Non-Volatile Memory, Monitors V, I, Frequency, Temp and Faults, PolyPhase Operation Using Multiple LTC7510s	C.F.





*Also see the LTC2978 Octal PMBus Power Supply Monitor & Controller with EEPROM and the LTC2970 Dual Digital Power Monitor & Margining Controller for DC/DC Converters

POWER MANAGEMENT ICs (PMICs)

DC/DC CONVERTERS WITHOUT BATTERY CHARGERS

Part Number	† Number of Regulators[1]	Buck(s)	Buck-Boost (BB)/ Boost	LDO(s)	Input Voltage (V)	Interface	Package (mm^2)	Notes	Price 1K Qty
DC/DC Converters without Battery Chargers									
LTC3537	2	–	0.6A Boost	100mA	0.68 to 5	–	3×3 QFN-16	Sync Boost + LDO	$2.40
LTC3522	2	200mA	0.3A BB	–	2.4 to 5.5	–	3×3 QFN-16	Sync Buck-Boost and Buck	$2.50
LTC3523	2	400mA	0.6A Boost	–	1.8 to 5.5	–	3×3 QFN-16	Sync Boost + Buck. “Plain” Switches at 1.2MHz, “-2” Switches at 2.4MHz	$2.95
LTC3541	2	500mA	–	300mA (VLDO)	2.7 to 5.5	–	3×3 DFN-10	High Efficiency Low Noise Dual	$1.95
LTC3456	3	250mA×2	–	1mA always on	2 AA cells, 5, USB	–	4×4 QFN-24	for AA Cells	$3.95
LTC3100	3	250mA	0.7A Boost	100mA	0.65 to 5.5	–	3×3 QFN-16	Boost + Buck + LDO	$3.10
LTC3445	3	600mA	–	100mA × 2	2.5 to 5.5	I^2C	4×4 QFN-24	Sync Buck with Dual LDOs	$2.45
LTC3446	3	1A	–	300mA × 2	2.7 to 5.5	–	4×3 DFN-14	Sync Buck with Dual LDOs	$2.75
LTC3520	3	600mA	1A BB	1 LDO controller	2.2 to 5.25	–	4×4 QFN-24	Synchronous Dual	$3.50
LTC3545	3	600mA×3	–	–	2.5 to 5.5	–	3×3 QFN-16	Synchronous Triple	$3.10
LTC3544	4	300mA, 200mA×2, 100mA	–	–	2.25 to 5.5	–	3×3 QFN-16	Synchronous Quad	$2.95
LTC3101	5	350mA×2	0.8A BB	50mA always on	1.8 to 5.5	–	4×4 QFN-24	PowerPath™ Control, 200mA Max Output Tracks Higher of USB or V_{BAT}, Protected 100mA Hot Swap Output	$3.95

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

POWER MANAGEMENT ICs (PMICs)
DC/DC CONVERTERS WITH BATTERY CHARGERS

Part Number	† Number of Regulators[1]	Buck(s)	Buck-Boost (BB)/ Boost	LDO(s)	Li-Ion/Polymer Charger	Max Charge Current (A)	PowerPath™ Topology[4]	Ideal Diode	Input Voltage (V)	Interface	Package (mm^2)	Notes	Price 1K Qty
DC/DC Converters with Battery Chargers													
LTC4080/X	1	300mA	–	–	linear	0.5	–	–	3.75 to 5.5	–	3×3 DFN-10	AC Present (ACPR) Output, "X" Version Disables Trickle Charge	$1.90
LTC4081	1	300mA	–	–	linear	0.5	–	–	3.75 to 5.5	–	3×3 DFN-10	NTC, no ACPR Signal	$1.90
LTC3550	1	600mA	–	–	linear	0.95	–	–	4.3 to 8	–	3×5 DFN-16	Dual Input Battery Charger, Adjustable Output Buck. "-1" Has Fixed 1.875V Output Buck	$2.00
LTC4089	1	1.2A	–	–	HV buck + linear	1.2[2]	linear	int + ext (opt.)	6 to 36 (40V max), USB	–	3×6 DFN-22	Bat-Track™ Buck Regulator, "-1" Has 4.1V V_{FLOAT}	$2.95
LTC4089-5	1	1.2A	–	–	HV buck + linear	1.2[2]	linear	int + ext (opt.)	6 to 36 (40V max), USB	–	3×6 DFN-22	DC/DC Provides Fixed 5V Output	$2.95
LTC4088	1	1.5A	–	–	sync buck + linear	1.2[2]	switching	int + ext (opt.)	4.25 to 5.5	–	3×4 DFN-14	Bat-Track (DC/DC Output = 300mV Above V_{BAT}), "Plain" Version Has 3.3V LDO. Power-Up Charger State is Off for "-1" and On for "-2".	$2.20
LTC4090	1	2A	–	–	HV buck + linear	1.5[2]	linear	int + ext (opt.)	6 to 36 (60V max), USB	–	3×6 DFN-22	Bat-Track	$3.25
LTC3558	2	400mA	0.4A BB	–	linear	0.95	–	–	5, USB	–	3×3 QFN-20		$2.35
LTC3559	2	400mA×2	–	–	linear	0.95	–	–	5, USB	–	3×3 QFN-16	"-1" Has 4.1V V_{FLOAT}	$2.15
LTC3552	2	800mA/400mA	–	–	linear	0.95	–	–	4.25 to 8	–	3×5 DFN-16	Adjustable Output Bucks. "-1" Has Fixed 1.575V and 1.8V Outputs	$2.30
LTC3566	2	–	1A BB	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	4.25 to 5.5	–	4×4 QFN-24	Bat-Track, "-2" Reduces Charge Current for Low V_{BAT}	$3.85
LTC3567	2	–	1A BB	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	4.25 to 5.5	I^2C	4×4 QFN-24	Bat-Track	$3.85
LTC3455	3	600mA[3]/400mA	–	Flexible Gain Block for LDO Controller	linear	0.5	linear	–	5, USB, Li-Ion	–	4×4 QFN-24	Dual Synchronous Bucks, Hot Swap Output, "-1" Version Has 4.1V V_{FLOAT}	$3.95
LTC3556	4	400mA×2	1A BB	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion	I^2C	4×5 QFN-28	Bat-Track (DC/DC Output = 300mV Above V_{BAT})	$4.70
LTC3557	4	600mA/400mA×2	–	3.3V, 25mA always on	linear	1.5[2]	linear	int + ext (opt.)	5, USB, Li-Ion, Hi-V 38V max	–	4×4 QFN-28	Bat-Track, "-1" Has 4.1V V_{FLOAT}	$3.95
LTC3555	4	1A/400mA×2	–	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion	I^2C	4×5 QFN-24	Bat-Track; "-1" and "-3" Have Enhanced "Instant-On" Operation & Undervoltage Current Limit While the "Plain" Does Not, "-3" Has 4.1V V_{FLOAT}	$4.65
LTC3576	4	1A/400mA×2	–	3.3V, 20mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion, Hi-V 38V with 60V transients; OVP: 68V	I^2C	4×6 QFN-38	Bat-Track, Bi-Directional USB On-The-Go (OTG), "-1" Has 4.1V V_{FLOAT}	$4.80
LTC3586	5	400mA×2	1A BB, 0.8A Boost	3.3V, 20mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion	–	4×6 QFN-38	Bat-Track, Integrated Buck-Boost and Boost Regulators, "-1" Has 4.1V V_{FLOAT}	$5.30
LTC3577/-1/-3	**5**	**600mA, 400mA×2**	**–**	**2×150mA**	**linear**	**1.5[2]**	**linear**	**int + ext (opt.)**	**5, USB, Li-Ion, Hi-V 38V max, OVP**	**–**	**4×7 QFN-44**	**OVP; Bat-Track, 10-LED Series Driver, Pushbutton Control, "-1" Has 4.1V V_{FLOAT}, "-3" Version Compatible with Atlas IV Processor**	**C.F.**

† Primary Sort Column

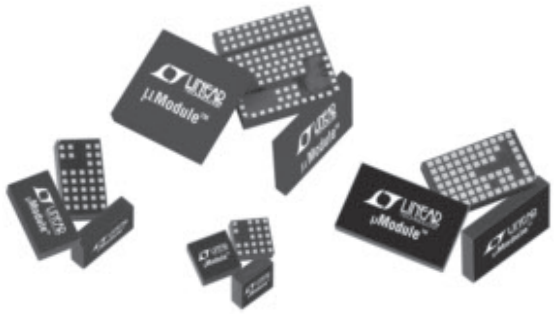
Notes:
1. Excludes the linear regulator of the battery charger
2. The DC/DC converter can provide charge current and system power but the total cannot exceed the max charge current
3. May be increased to 1A with additional components
4. Switching PowerPath means a switcher is on the USB input allowing more than 500mA charge current from USB

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

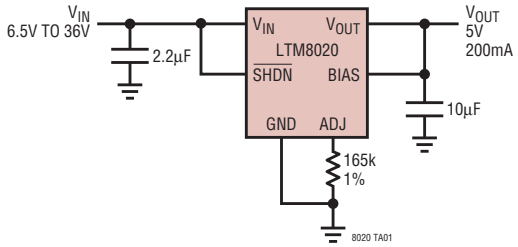
Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	† Continuous Output Current (A)	PLL	Track Margin	Remote Sense	Max. ICs Paralleled for Current Share	External Components	LGA Package (mm)	Maximum Junction Temperature	Comments	Price 1K Qty
Buck														
LTM8020	4	36	1.25	5	0.2					C_{BULK}; R to Adjust V_{OUT}	6.25 × 6.25 × 2.3	125°C	Small 6.25×6.25 LGA Package, 2.3mm Height	$4.95
LTM8021	3.6	36	0.8	5	0.5					C_{BULK}; R to Adjust V_{OUT}	8.25 × 11.25 × 2.8	125°C	Cooler Operating Temperature and Smaller than Linear Regulator	$5.85
LTM8022	3.6	36	0.8	10	1					C_{BULK}; R to Adjust V_{OUT}	9 × 11.25 × 2.8	125°C	Pin-Compatible with 2A LTM8023	$6.95
LTM8023	3.6	36	0.8	10	2				2	C_{BULK}; R to Adjust V_{OUT}	9 × 11.25 × 2.8	125°C	Pin-Compatible with 1A LTM8022	$7.95
LTM8032	**3.6**	**36**	**0.8**	**10**	**2**		•		**2**	**C_{BULK}; R to adjust V_{OUT}**	**9 × 15 × 2.8**	**125°C**	**Ultralow Noise, EMC Compliant**	**$10.95**
LTM4604/A	2.375	5.5	0.8	5	4		•		2	C_{BULK}; R to adjust V_{OUT}	9 × 15 × 2.3	125°C	Low Profile (2.3mm) Package:	$8.50
LTM4614	**2.375**	**5.5**	**0.8**	**5**	**4×2**		•		**2**	**C_{BULK}; R to adjust V_{OUT}**	**15 × 15 × 2.8**	**125°C**	**Dual 4A or Single 8A. Also See LTM4608 for 8A**	**C.F.**
LTM4612	5	36	3.3	15	5	•	•		4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Ultralow Noise	$19.89
LTM4612MP	5	36	3.3	15	5	•	•		4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Ultralow Noise, Military Plastic, 100% Tested Over Temp, Guaranteed Start-up at –55°C	$40.45
LTM4602	4.5	20	0.6	5	6				2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Pin-Compatible with 10A LTM4600	$11.95
LTM4603	4.5	20	0.6	5	6	•	•	•	4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Pin-Compatible with 12A LTM4601	$13.50
LTM4603-1	4.5	20	0.6	5	6	•	•		2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	"-1" Does Not Have Remote Sense	$12.95
LTM4602HV	4.5	28	0.6	5	6				2	C_{BULK}; R to Adjust V_{OUT}	16 × 15 × 2.8	125°C	Pin-Compatible with 10A LTM4600/HV	$14.58
LTM4603HV	4.5	28	0.6	5	6	•	•	•	4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Pin-Compatible with 12A LTM4601/-1/HV	$16.47
LTM4606	4.5	28	0.6	5	6	•	•		4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Ultralow Noise	$16.50
LTM4606MP	4.5	28	0.6	5	6	•	•		4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Ultralow Noise, Military Plastic, 100% Tested Over Temp, Guaranteed Start-up at –55°C	$37.10
LTM4608/A	2.7	5.5	0.6	5	8	•	•		3	C_{BULK}; R to Adjust V_{OUT}	9 × 15 × 2.8	125°C	8A in 9×15 LGA Package	$11.30
LTM4616	2.7	5.5	0.6	5	8×2	•	•		2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Dual 8A or Single 16A	$19.45
LTM4600	4.5	20	0.6	5	10				2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Pin-Compatible with 6A LTM4602	$14.70
LTM4600HV	4.5	28	0.6	5	10				2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Pin-Compatible with 6A LTM4602/HV	$18.00
LTM4600HVMP	4.5	28	0.6	5	10				2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	100% Tested over Temperature, Guaranteed Start-up at –55°C	$36.95
LTM4601	4.5	20	0.6	5	12	•	•	•	4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Pin-Compatible with 6A LTM4603	$16.50
LTM4601-1	4.5	20	0.6	5	12	•	•		2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	"-1" Does Not Have Remote Sense	$15.95
LTM4601A	4.5	20	0.6	5	12	•	•	•	4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	LTM4601 with Extra LGA Pads	$16.85
LTM4601HV	4.5	28	0.6	5	12	•	•	•	4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Pin-Compatible with 6A LTM4603/-1/HV	$20.15
LTM4601AHV	4.5	28	0.6	5	12	•	•	•	4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Extra LGA Pads	$20.40
LTM4601AHVMP	4.5	28	0.6	5	12	•	•	•	4	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Military Plastic; 100% Tested over Temperature, Guaranteed Start-up at –55°C	$39.95
LTM4616	2.7	5.5	0.6	5	16	•	•		2	C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Dual 8A or Single 16A	$19.45
Buck-Boost														
LTM4609	**4.5**	**36**	**0.8**	**34**	**4**	•			**2**	**Inductor; R_{SENSE}, C_{BULK}; R to adjust V_{OUT}**	**15 × 15 × 2.8**	**125°C**	**Fast Transient Response, Wide V_{OUT} Range, Up to 98% Efficient, External Inductor, PGOOD Output**	**$22.55**
LTM4607	4.5	36	0.8	24	5	•			2	Inductor; R_{SENSE}, C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Fast Transient Response, 94% to 98% Efficiency, External Inductor	$21.55
LTM4605	4.5	20	0.8	16	5	•			2	Inductor; R_{SENSE}, C_{BULK}; R to Adjust V_{OUT}	15 × 15 × 2.8	125°C	Fast Transient Response, 94% to 98% Efficiency, External Inductor	$18.80

† Primary Sort Column

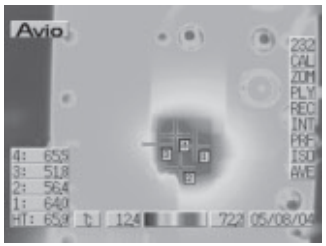
LGA (Land Grid Array) Package



Simple DC/DC µModule



Thermal Performance Analysis



CONDITIONS: 25°C, NO AIR FLOW, NO HEATSINK, NO $EXTV_{CC}$

LTM4600 12V TO 3.3V AT 10A. TOP VIEW

See www.linear.com/micromodule for Design Support Documents Including:

- App Note 100 - Recommended Land Pad, Assembly and Rework Guidelines
- App Note 103 - Thermal Performance
- App Note 114 - Evaluating the Integrity of LGA Package, 2nd Level Interconnect
- Design Note 411 - Simple and Compact 4-Output Point-of-Load DC/DC µModule System
- Materials Declaration
- Altera and Xilinx Reference Design Support

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

CHARGE PUMP DC/DC CONVERTERS

Part Number	V_{IN} Range (V)	Min V_{OUT} (V)	† Max I_{OUT} (mA)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
Regulated Step-Up Charge Pump Converters										
LTC1502-3.3	0.9 to 1.8	3.3	10	500kHz	40	5	MSOP-8, SO-8	I	Quadrupler	$1.95
LTC1986	2.6 to 4.4	5 or V_{IN}	10	900kHz	14	<1	TSOT-6	E	SIM Power Supply	$1.45
LTC1517-3.3	2.2 to 4.4	3.3	15	700kHz	6	n/a	SOT-23-5	E	Micropower Charge Pump, 3.3V V_{OUT}	$1.95
LTC1517-5	2.7 to 5	5	20	800kHz	6	n/a	SOT-23-5	E	Micropower Charge Pump, 5.5V V_{OUT}	$1.95
LTC1522	2.7 to 5	5	20	700kHz	6	<1	MSOP-8, SO-8	I	Micropower, Shutdown Disconnects Load	$1.75
LTC1555	2.7 to 10	5	20	650kHz	60	<1	SSOP-16	E, I	SIM Power Supply and Level Translator	$2.00
LTC1555L	2.6 to 6.6	3 or 5	20	1MHz	40	<1	SSOP-16	E, I	SIM Power Supply and Level Translator	$2.00
LTC1555L-1.8	2.6 to 6.6	1.8, 3 or 5	20	1MHz	32	<1	SSOP-16	E, I	SIM Power Supply and Level Translator	$2.20
LTC1556	2.7 to 10	5	20	650kHz	60	<1	SSOP-20	E, I	SIM Power Supply and Level Translator; Aux 4.3V LDO	$2.00
LTC1262	5	12	30	300kHz	500	<1	SO-8, DIP-8	I	12V ±5% Out; Good for Flash Memory V_{PP}	$2.15
LTC1928-5	2.7 to 4.4	5	30	550kHz	190	4	TSOT-6	E	Doubler with Internal LDO Linear Regulator, Low Noise	$1.76
LTC1754-3.3	2 to 4	3.3	40	600kHz	13	<1	SOT-23-6	E	Micropower Charge Pump, 3.3V V_{OUT}	$1.45
LTC3204-3.3	1.8 to 4.5	3.3	50	1.2MHz	48	<1	2×2 DFN-6	E	Low Noise, Doubler, 2×2 DFN, Only 3 Externals	$1.50
LTC3204B-3.3	1.8 to 4.5	3.3	50	1.2MHz	1.25mA	<1	2×2 DFN-6	E	No Burst Mode Operation, Low Noise, Doubler, 2×2 DFN, 3 Externals	$1.50
LTC1754-5	2.7 to 5.5	5	50	600kHz	13	<1	SOT-23-6	E	Micropower Charge Pump, 5.5V V_{OUT}	$1.45
LTC1514	2.7 to 10	3 or 5	50	650kHz	60	10	SO-8	I	Step-Up/-Down Operation; Low Battery Comparator	$3.50
LTC1515	2.7 to 10	3.3 or 5	50	650kHz	60	<1	SO-8	I	Step-Up/-Down Operation; Power on Reset	$3.50
LTC1516	2 to 5	5	50	600kHz	12	<1	SO-8	I	Doubler/Tripler; High Efficiency	$3.35
LTC1682	1.8 to 4.4	3.3, 5, Adj.	50	550kHz	150	<1	MSOP-8, SO-8	I	Boost Charge Pump with 500µV_{P-P} Low Noise LDO	$1.70
LTC1263	5	12	60	300kHz	300	<1	SO-8	I	12V ±5% Out; Good for Flash Memory	$3.30
LTC1755	2.7 to 6	3 or 5	60	PFM	60	<1	SSOP-16, SSOP-24	E	Universal Smart Card Interface	$2.55
LTC1756	2.7 to 6	3 or 5	60	PFM	60	<1	SSOP-16, SSOP-24	E	Universal Smart Card Interface	$2.30
LTC3221	1.8 to 5.5	Adjustable	60	600kHz	8	<1	2×2 DFN-6	E	Micropower, Burst Mode Operation, Adj. Output	$1.60
LTC3221-3.3	1.8 to 4.4	3.3	60	600kHz	8	<1	2×2 DFN-6	E	Micropower, Burst Mode Operation, 3.3V Output	$1.60
LTC3221-5	2.7 to 5.5	5	60	600kHz	8	<1	2×2 DFN-6	E	Micropower, Burst Mode Operation, 5V Output	$1.60
LTC1751-3.3	2 to 4.4	3.3	80	800kHz	20	2	MSOP-8	E	PGOOD Output, 3.3V Output	$2.25
LTC1751	2 to 5.5	Adjustable	100	PFM	20	2	MSOP-8	E	Adj. Output	$2.25
LTC1751-5	2.7 to 5.5	5	100	PFM	20	2	MSOP-8	E	PGOOD Output, 5V Output	$2.25
LTC3200	2.7 to 4.5	Adjustable	100	2MHz	3.5mA	<1	MSOP-8	I	Low Noise, Doubler/White LED Driver	$1.60
LTC3200-5	2.7 to 4.5	5	100	2MHz	3.5mA	<1	TSOT-6	I	Low Noise, Doubler/White LED Driver	$1.60
LTC3201	2.7 to 4.5	Adjustable	100	1.8MHz	4mA	<1	MSOP-10	E	Ultralow Noise, White LED Driver	$1.90
LT1054	3.5 to 15	Adjustable	100	25kHz	2.5mA	n/a	DIP-8, SO-8	I	High Voltage/Current, Doubler or Inverter	$2.65
LT1054L	3.5 to 7	Adjustable	125	25kHz	2.5mA	n/a	SO-8	I	High Current, Doubler or Inverter	$2.00
LTC3202	2.7 to 4.5	Adjustable	125	1.5MHz	2.5mA	<1	3×3 DFN-10, MSOP-10	E	Low Noise, Fractional White LED Driver	$1.90
LTC3204-5	2.7 to 5.5	5	150	1.2MHz	60	<1	2×2 DFN-6	E	Low Noise, Doubler, 2×2 DFN, Only 3 Externals	$1.50
LTC3204B-5	2.7 to 5.5	5	150	1.2MHz	3.6mA	<1	2×2 DFN-6	E	No Burst Mode Operation, Low Noise, Doubler, 2×2 DFN, 3 Externals	$1.50
LTC3203	2.7 to 5.5	Adjustable	500	1MHz	120	<1	3×3 DFN-10	E	Burst Mode Operation	$2.00
LTC3203B	2.7 to 5.5	Adjustable	500	1MHz	7mA	<1	3×3 DFN-10	E	Constant Frequency at All Loads, Burst Mode Operation Defeated	$2.00
LTC3203-1	2.7 to 5.5	4.5, 5	500	1MHz	120	<1	3×3 DFN-10	E	Burst Mode Operation	$2.00
LTC3203B-1	2.7 to 5.5	4.5, 5	500	1MHz	7mA	<1	3×3 DFN-10	E	Constant Frequency at All Loads, Burst Mode Operation Defeated	$2.00
Regulated Inverting Charge Pump Converters										
LTC1261	3 to 8	–4, –4.5, Adj	12	550kHz	600	5	SO-8, SO-14	I	Adjustable Output, Doubler or Tripler, PGOOD (REG) Output	$1.75
LTC1550	2.7 to 6.5	–2, –2.5, –4.1, Adj	20	900kHz	4.2mA	<1	SO-8, SSOP-16	I	1mV_{P-P} Ripple, 900kHz, Active High Shutdown, PGOOD (REG) Output	$1.90
LTC1550L	2.7 to 5.25	–2, –2.5, –4.1, Adj	20	900kHz	3.5mA	<1	MSOP-8, SO-8, SSOP-16	I	1mV_{P-P} Ripple, 900kHz, Active Low Shutdown, PGOOD (REG) Output	$1.70
LTC1551	2.7 to 6.5	–4.1, Adj	20	900kHz	4.2mA	<1	SO-8, SSOP-16	I	1mV_{P-P} Ripple, 900kHz, Active High Shutdown, PGOOD (REG) Output	$1.90
LTC1551L	2.7 to 5.25	–4.1, Adj	20	900kHz	3.5mA	<1	MSOP-8, SO-8, SSOP-16	I	1mV_{P-P} Ripple, 900kHz, Active Low Shutdown, PGOOD (REG) Output	$1.70
LTC1261L	2.7 to 5.25	–4, –4.5, Adj	20	650kHz	650	5	MSOP-8, SO-8	I	Adjustable Output, Doubler or Tripler, PGOOD (REG) Output	$1.70
LTC1983-3	3 to 5.5	–3	100	900kHz	25	<1	TSOT-6	E	Regulated Inverter	$1.75
LTC1983-5	2.3 to 5.5	–5	100	900kHz	25	<1	TSOT-6	E	Regulated Inverter	$1.75
LT1054	3.5 to 15	Adjustable	100	25kHz	2.5mA	n/a	DIP-8, SO-8	I	High Voltage/Current, Doubler or Inverter	$2.65
LT1054L	3.5 to 7	Adjustable	125	25kHz	2.5mA	n/a	SO-8	I	High Current, Doubler or Inverter	$2.00

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	V_{IN} Range (V)	Min V_{OUT} (V)	† Max I_{OUT} (mA)	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	Shutdown Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
Unregulated Doubling/Inverting Converters										
LT1026	4 to 10	$2V_{IN}$ or $-V_{IN}$	15	n/a	7mA	n/a	DIP-8, SO-8	I	Dual Supply Generator (+5V to –5V or ±10V)	$2.05
LTC1044	1.5 to 9	$2V_{IN}$, $-V_{IN}$ or $0.5V_{IN}$	20	5kHz	200	1.5	SO-8	I	Industry Standard (7660) Charge Pump	$1.65
LTC1044A	1.5 to 12	$2V_{IN}$, $-V_{IN}$ or $0.5V_{IN}$	20	5kHz	200	1.5	SO-8	I	Higher V_{IN} (12V) than LTC1044/7660	$2.20
LTC1046	1.5 to 6	$2V_{IN}$, $-V_{IN}$ or $0.5V_{IN}$	50	20kHz	165	n/a	SO-8	I	Higher Current than LTC1044/7660	$2.15
LTC1144	2 to 18	$2V_{IN}$, $-V_{IN}$ or $0.5V_{IN}$	50	10kHz	1.1mA	8	SO-8	I	High Voltage, Shutdown	$2.45
LTC660	1.5 to 5.5	$2V_{IN}$, $-V_{IN}$ or $0.5V_{IN}$	100	80kHz	230	n/a	SO-8, DIP-8		High Current, +5V to –5V	$2.75
LT1054	3.5 to 15	Adjustable	100	25kHz	2.5mA	n/a	DIP-8, SO-8	I	High Voltage/Current, Doubler or Inverter	$2.65
LT1054L	3.5 to 7	Adjustable	125	25kHz	2.5mA	n/a	SO-8	I	High Current, Doubler or Inverter	$2.00
Regulated Step-Down Charge Pump Converters										
LTC1503-1.8	2.4 to 6	1.8	100	600kHz	25	5	MSOP-8, SO-8	I		$1.70
LTC1503-2	2.4 to 6	2	100	600kHz	25	5	MSOP-8, SO-8	I		$1.75
LTC1911	2.7 to 5.5	1.5 or 1.8	250	1.5MHz	180	10	MSOP-8	E	Low Noise, 70% Efficiency	$2.34
LTC3250	3.1 to 5.5	1.5 or 1.2	250	1.5MHz	35	<1	TSOT-6	E	Low Noise, 85% Efficiency	$1.60
LTC3252	2.7 to 5.5	0.9 to 1.6	250×2	1MHz-1.6MHz	60	<1	4×3 DFN-12	E	Dual Output Spread Spectrum, Ultralow Noise	$2.60
LTC3251	2.7 to 5.5	1.2, 1.5, Adj	500	1MHz-1.6MHz	9	<1	MSOP-10	E	Spread Spectrum, Ultralow Noise, 2-Phase Operation	$1.95
Regulated Buck-Boost Charge Pump Converters										
LTC1517-3.3	2.2 to 4.4	3.3	15	700kHz	6	n/a	SOT-23-5	E	Micropower Charge Pump	$1.95
LTC1555	2.7 to 10	5	20	650kHz	60	<1	SSOP-16	E, I	SIM Power Supply & Level Translator	$2.00
LTC1555L	2.6 to 6.6	3 or 5	20	1MHz	40	<1	SSOP-16	E, I	SIM Power Supply & Level Translator	$2.00
LTC1555L-1.8	2.6 to 6.6	1.8, 3 or 5	20	1MHz	32	<1	SSOP-16	E, I	SIM Power Supply & Level Translator	$2.20
LTC1556	2.7 to 10	5	20	650kHz	60	<1	SSOP-20	E, I	SIM Power Supply & Level Translator; Aux 4.3V LDO	$2.00
LTC1754-3.3	2 to 4	3.3	40	600kHz	13	<1	SOT-23-6	E	Micropower Charge Pump	$1.45
LTC3204-3.3	1.8 to 4.5	3.3	50	1.2MHz	48	<1	2×2 DFN-6	E	Low Noise, Doubler, 2×2 DFN, Only 3 Externals	$1.60
LTC3204B-3.3	1.8 to 4.5	3.3	50	1.2MHz	1.25mA	<1	2×2 DFN-6	E	No Burst Mode Operation, Low Noise, Doubler, 2×2 DFN, 3 Externals	$1.60
LTC1514	2.7 to 10	3, 5	50	650kHz	60	10	SO-8	I	Step Up/Down Operation; Low Battery Comparator	$3.50
LTC1515	2.7 to 10	3.3 or 5	50	650kHz	60	<1	SO-8	I	Step Up/Down Operation; Power on Reset	$3.50
LTC3221-3.3	1.8 to 4.4	3.3	60	600kHz	8	<1	2×2 DFN-6	E	Micropower Charge Pump with Burst Mode Operation	$1.60
LTC1755	2.7 to 6	3 or 5	60	PFM	60	<1	SSOP-16, SSOP-24	E	Universal Smart Card Interface, Can Be Paralled, DV_{CC} & Aux Pins	$2.55
LTC1756	2.7 to 5.5	3 or 5	60	PFM	60	<1	SSOP-16, SSOP-24	E	Universal Smart Card Interface	$2.30
LTC3240-2.5	1.8 to 5.5	2.5	150	1.2MHz	65	1	2×2 DFN-6	E	Burst Mode Operation	$1.60
LTC3240-3.3	1.8 to 5.5	3.3	150	1.2MHz	65	1	2×2 DFN-6	E	Burst Mode Operation	$1.60
GaAs FET Bias Converters										
LTC1261	3 to 8	–4, –4.5, Adj.	12	550kHz	600	5	SO-8, SO-14	I	Adjustable Output, Doubler or Tripler	$1.75
LTC1550	2.7 to 6.5	–2, –2.5, –4.1, Adj.	20	900kHz	4.2mA	<1	SO-8, SSOP-16	I	$1mV_{P-P}$ Ripple, 900kHz, Active High Shutdown	$1.90
LTC1550L	2.7 to 5.25	–2, –2.5, –4.1, Adj.	20	900kHz	3.5mA	<1	MSOP-8, SO-8, SSOP-16	I	$1mV_{P-P}$ Ripple, 900kHz, Active Low Shutdown	$1.70
LTC1551	2.7 to 6.5	–4.1, Adj.	20	900kHz	4.2mA	<1	SO-8, SSOP-16	I	$1mV_{P-P}$ Ripple, 900kHz, Active High Shutdown	$1.90
LTC1551L	2.7 to 5.25	–4.1, Adj.	20	900kHz	3.5mA	<1	MSOP-8, SO-8, SSOP-16	I	$1mV_{P-P}$ Ripple, 900kHz, Active Low Shutdown	$1.70
LTC1261L	2.7 to 5.25	–4, –4.5, Adj.	20	650kHz	650	5	MSOP-8, SO-8	I	Adjustable Output, Doubler or Tripler	$1.70

† Primary Sort Column

SUPERCAPACITOR CHARGER

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	Switch Current (mA)	Efficiency	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3225	2.9	5.5	150	>80%	20	<1	2×3 DFN-10	E	Charges Two Series Supercaps; Auto Cell Balancing	$2.00

BOOST/BUCK-BOOST LED DRIVERS (Require an Inductor): LEDs in Series

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Max (V)	† Max Switch Current (A)	Number of White LEDs	Dimming Control	Switching Frequency	I_Q (I_{SUPPLY}) (mA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty[2]
LT3491	2.5	12	27	0.26	6	True Color PWM	2.3MHz	2.6	<8	2×2 DFN-6, SC70	E	Integrated Schottky, Overvoltage Protection, 300:1 Dimming	$1.25
LT1615	1.2	15	34	0.3	8	PWM	PFM	20µA	<1	ThinSOT	E	Constant-Current, Constant Off Time	$1.65
LT3497	2.5	10	32	0.3×2	6×2	PWM	2.3MHz	6	<1	3×2 DFN-10	E	Dual Output, Integrated Schottkys, Soft-Start	$1.70
LT1937	2.5	10	34	0.32	4	PWM	1.2MHz	1.9	<1	ThinSOT, SC70	E	Low Noise, 84% Efficiency, Ideal for 2-4 LEDs	$1.30
LT3466	2.7	24	42	0.32×2	10×2	PWM	1.0MHz	5	<16	3×3 DFN-10, TSSOP-16E	E	Dual Outputs/Integrated Schottkys, Soft-Start	$2.20
LT3466-1	2.7	24	42	0.32×2	10×1	PWM	1.0MHz	5	<16	3×3 DFN-10	E	LED Driver Plus Boost Conveter, Integrated Schottkys, Soft-Start	$1.95
LT1932	1.0	10	34	0.4	8	PWM	1.2MHz	1.2	<1	ThinSOT	E	Low Noise, 80% Efficiency, Ideal for 4-8 LEDs	$1.75
LT3465/A	2.7	16	30	0.4	6	PWM	1.2/2.7MHz	2	<1	ThinSOT	E	Integrated Schottky, Soft-Start	$1.35
LT3498	2.5	12	27	0.4/0.25	8	Analog	2.3MHz	1.65	<8	2×3 DFN-12	E	Dual, Integrated Schottky Diodes, Output Disconnect. Drives OLED and LED Display	$1.95
LT3591	2.5	12	40	0.45	10	True Color PWM	1.0/2.3MHz	3	<1	3×2 DFN-8	E	Integrated Schottky, Soft-Start, 80:1 Dimming Range	$1.40
LT3593	2.7	5.5	45	0.55	10	Analog	1MHz	0.3	<10	2×2 DFN-6, SOT-23-6	E	Drives Up to 10 LEDs. Output Disconnect, One Pin I_{LED} Adjust.	$1.40
LT3496	3.0	30	45	0.75×3	30	True Color PWM	330kHz to 2.1MHz	6	<1	4×5 QFN-28	I	Triple Output, Can be Used in Buck, Buck-Boost or Boost Mode, 3000:1 True Color PWM™ Dimming	$3.50
LT1942	2.6	16	36	1	12	PWM	1.0MHz	7	<1	4×4 QFN-24	E	Both LED Driver and TFT Biasing, Integrated Schottkys and Output Disconnect	$2.75
LT3453	2.7	5.5	5	1.15	1	DC	1.0MHz	2.5	<6	4×4 QFN-16	E	High Current Buck-Boost LED Driver — Delivers Up to 500mA	$2.10
LT3486	2.5	24	36	1.3×2	20	True Color PWM	200kHz to 2MHz	9	<1	5×3 DFN-16, TSSOP-16E	E	Dual 1.3A LED Driver with 1000:1 Dimming	$2.50
LT3598	3.1	30	44	1.5	60	True Color PWM	200kHz to 2.5MHz	3.5	<1	4×4 QFN-24	E, I	Up to Six Strings of 10 LEDs in Series, 30mA per LED	$2.95
LT3517	3.0	30	45	1.5	8	True Color PWM	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16	I	Buck, Buck-Boost or Boost Mode, 5000:1 Dimming	$2.70
LT1618	1.6	18	34	1.5	20	PWM	1.4MHz	1.8	<1	MSOP-10	E	Constant Current/Voltage, Ideal for 8+ LEDs	$1.75
LT3476	2.8	16	40	1.5×4	32+	True ColorPWM	200kHz to 2MHz	22	<1	5×7 QFN-38	I	Quad Driver, 1000:1 True Color PWM, For Buck, Boost and Buck-Boost Applications	$4.64
LT3599	**3.1**	**30**	**44**	**2**	**40**	**True Color PWM**	**200kHz to 2.1MHz**	**3.5**	**<1**	**5×5 QFN-32, TSSOP-28E**	**E, I**	**Up to Four Strings of 10 LEDs in Series, 120mA per LED**	**$3.25**
LTC3490	1.0	3.2	4	2	2	PWM	1.3MHz	1	<50	3×3 DFN-8, SO-8	E	High Current LED Driver for Flash Lighting	$2.10
LT3518	3.0	30	45	2.3	8	True Color PWM	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16	I	Buck, Buck-Boost or Boost Mode, 3000:1 Dimming	$2.95
LT3454	2.7	5.5	5	2.4	1	DC	1.0MHz	0.825	<6	3×3 DFN-10	E	High Current Buck-Boost LED Driver, Delivers Up to 1A LED Current	$1.95
LT3477	2.5	25	42	3	10	PWM	200kHz to 3.5MHz	5	<1	TSSOP-20E, 4×4 QFN-20	E	Boost, Buck, Buck-Boost LED Driver, 3A, 42V Internal Switch	$3.15
LT3479	2.5	24	40	3	20	PWM	200kHz to 3.5MHz	6.5	<1	TSSOP-16, 4×3 DFN-14	E	High Current LED Driver — Delivers Up to 2A	$3.00
LT3478/-1	2.8	36	40	4.5	16	True Color PWM	200kHz to 2.25MHz	22	<1	TSSOP-16E	I	Buck, Boost and Buck-Boost Applications, 3000:1 Dimming; "-1" Has Integrated R_{SENSE}	$3.60
LTC3783	3.0	36	100[1]	20[1]	25[1]	PWM, Analog	20k to 1MHz	1.5	20	5×4 DFN-16, TSSOP-16	I	Boost, Flyback, SEPIC; 3000:1 Dimming Ratio	$2.85
LT3755/-1	4.5	40	60[1]	20[1]	25[1]	True Color PWM	100kHz to 1MHz	1.1	<1	3×3 QFN-16	E, I	40V Max V_{IN}; Boost, Buck Mode, Buck-Boost Mode, SEPIC; 3000:1 Dimming	$2.75
LT3756/-1	6.0	100	100[1]	20[1]	25[1]	True Color PWM	100kHz to 1MHz	1.1	<1	3×3 QFN-16	E, I	100V Max V_{IN}; Boost, Buck Mode, Buck-Boost Mode, SEPIC; 3000:1 Dimming	$2.90

† Primary Sort Column

Notes:

1. Output voltage and current depend on the choice of external components.

CHARGE PUMP LED DRIVERS (Inductorless): LEDs in Parallel

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	Conversion Ratio	Switch Current (mA)	† Number of White LEDs	Dimming Control	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3218	2.9	4.5	1/1 : 2/1	400	1	Ext	1	980	<2	2×3 DFN-10	E	High-Side (1-Wire) Current Sensing, Flash Current Timeout	$1.44
LTC3214	2.9	4.4	1/1 : 3/2 : 2/1	500	1	Ext	900kHz	980	<2.5	3×3 DFN-10	E	Ideal for Med/Low Current LEDs: AOT, LumiLEDs, etc. 3×3 DFN	$1.65
LTC3215	2.9	4.4	1/1 : 3/2 : 2/1	700	1	Ext	900kHz	300	<2.5	3×3 DFN-10	E	Ideal for High/Med Current LEDs: AOT, LumiLEDs, etc. 3×3 DFN	$1.75
LTC3216	2.9	4.4	1/1 : 3/2 : 2/1	1,000	1	Ext	900kHz	300	<2.5	4×3 DFN-12	E	Ideal for High Current LEDs Like LumiLEDs	$2.00
LTC3212	2.7	5.5	1/1 : 2/1	75	3 RGB	1-wire	900kHz	400	<3	3×2 DFN-12	E	Drives RGB LEDs, No Ballast Resistors, 2×3	$1.30
LTC3217	2.9	4.5	1/1 : 3/2 : 2/1	600	4	Ext	900kHz	400	<4	3×3 QFN-16	E	Drives Up to 4 LEDs for Camera Lighting, No Ballast Resistors	$1.70
LTC3230	2.7	5.5	1/1 : 3/2 : 2/1	125	5	1-wire	900kHz	400	<1	3×3 QFN-20	E	Drives 5 LEDs: 4 Main, 1 Sub; Linear 32-Step LED Brightness Control	$1.55
LTC3210/-1	2.9	4.5	1/1 : 3/2 : 2/1	500	5	1-wire	0.8	400	<3	3×3 QFN-16, UTQFN-16 ("-1" only)	E	Drives 5 LEDs: 4 Main, 1 CAM/Flash; "Plain" Has Exponential 8-Step MAIN Brightness Control, "-1" Has Linear 64-Step MAIN Brightness Control	$1.70
LTC3210-2/-3	2.9	4.5	1/1 : 3/2 : 2/1	500	5	1-wire	0.8	400	<3	3×3 QFN-16	E	Linear 32-Step MAIN Brightness Control, "-2" Drives 5 LEDs: 4 Main, 1 CAM/Flash, "-3" Drives 4 LEDs, 3 Main, 1 CAM/Flash	$1.70
LTC3200-5	2.7	4.5	2/1	100	6	Ext	2MHz	3.5mA	<1	ThinSOT	E, I	Low Noise, Inductorless, Ideal for Up to 4 LEDs	$1.60

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

CHARGE PUMP LED DRIVERS (Inductorless): LEDs in Parallel

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	Conversion Ratio	Switch Current (mA)	† Number of White LEDs	Dimming Control	Switching Frequency	I_Q (I_{SUPPLY}) (µA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3200	2.7	4.5	2/1	100	6	Ext	2MHz	3.5mA	<1	MSOP-10	E, I	Low Noise, Inductorless, Ideal for Up to 4 LEDs	$1.70
LTC3201	2.7	4.5	2/1	100	6	DAC	1.7MHz	4mA	<1	MSOP-10	E	Ultralow Noise, Inductorless, Ideal for Up to 4 LEDs	$1.90
LTC3205	2.8	4.5	1/1 to 3/2	250	4, 2, 1 RGB	SPI	800kHz	50	<1	4×4 QFN-24	E	Drives 4 Main LEDs, 2 Sub Display, and RGB LEDs	$2.10
LTC3202	2.7	4.5	3/2	125	8	DAC	1.5MHz	2.5mA	<1	3×3 DFN-10, MSOP-10	E	Low Noise, High Efficiency, Inductorless, Ideal for Up to 6 LEDs	$1.90
LTC3209	2.9	4.5	1/1 : 3/2 : 2/1	600	8	I^2C	850kHz	400	<3	4×4 QFN-20	E	Drives 8 LEDs: "Plain" Drives 6 Main, 1 CAM/Flash, 1 AUX; "-1" Drives 5 Main, 2 CAM/Flash, 1 AUX	$1.80
LTC3219	2.9	5.5	1/1 : 3/2 : 2/1	250	9	I^2C	850kHz	400	<2	3×3 QFN-20	E	Drives 9 Universal LEDs	$1.80
LTC3206	2.8	4.5	1/1 to 3/2	400	6, 4, 1 RGB	I^2C	800kHz	50	<1	4×4 QFN-24	E	Drives 6 Main LEDs, 4 Sub Display, RGB LEDs	$2.20
LTC3207	2.9	5.5	1/1 : 3/2 : 2/1	600	12 + 1	I^2C	850kHz	500	<3	4×4 QFN-24	E	Drives 13 LEDs: 12 Universal + One 425mA CAM, "-1" Has Different I^2C Address	$2.55
LTC3208	2.9	4.5	1/1 : 3/2 : 2/1	1,000	17	I^2C	850kHz	250	<1	5×5 QFN-32	E	Drives 17 LEDs: 4 Main, 2 Sub Display, 4 CAM, 3 RGB, 4 AUX	$2.55
LTC3220	2.9	5.5	1/1 : 3/2 : 2/1	360	18	I^2C	850kHz	500	<1	4×4 UTQFN-28	E, I	Drives 18 Universal LEDs. "-1" Has Different I^2C Address	$2.35

† Primary Sort Column

HIGH CURRENT BUCK LED DRIVERS

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	† Max LED Current (A)	Max Number of White LEDs	Dimming Control	Frequency	I_Q (I_{SUPPLY}) (mA)	I_{SHDN} (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3590	4.5	55	0.05	10	Analog	850kHz	0.5	15	SC70, 2×2 DFN-6	E	48V Buck LED Driver, Internal Schottky	$1.40
LT3595/A	4.5	45	0.05×16	160	True Color PWM	2MHz	0.25	15	5×9 QFN-56	E	Buck LED Driver, 16 Channels, 5000:1 Dimming. "A" Version Has Tighter LED Current Accuracy/Matching and Improved Pinout	$6.95
LT3592	3.0	36	0.5	8	Analog	400kHz to 2.2MHz	2.0	1	2×3 DFN-10, MSOP-10E	I	36V Buck LED Driver	$1.65
LT3496	3	30/40	0.5×3	30	True Color PWM	330kHz to 2.1MHz	6	<1	4×5 QFN-28	I	Triple Output, Can be Used in Buck, Buck-Boost or Boost Mode, 3000:1 Dimming	$3.50
LT1618	1.6	18	0.7	Varies	Analog	1.4MHz or 550kHz	1.8	<1	3×3 DFN-10, MSOP-10	E	Constant Current/Voltage Switcher; 35V Max V_{OUT}; Buck, Buck-Boost or Boost Mode	$1.75
LT3477	2.5	25	1	Varies	Analog + PWM	200kHz to 3.5MHz	5	<1	4×4 QFN-20, TSSOP-20E	E, I	42V Internal Switch, Dual Rail-to-Rail Current Sense Amps	$3.15
LT3474	4	36	1	4	True Color PWM	200kHz to 2MHz	2.6	<1	TSSOP-16E	I	Buck LED Driver, 400:1 Dimming. "Plain" Has 13.8V V_{OUT} Clamp, "-1" Allows Outputs to 26V	$2.95
LT3517	3	30/40	1	8	True Color PWM	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16, TSSOP-16E	I	Buck, Buck-Boost or Boost Mode, 5000:1 Dimming	$2.70
LT3518	3	30/40	1.5	8	True Color PWM	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16	I	Buck, Buck-Boost or Boost Mode, 3000:1 Dimming	$2.95
LT3475	4	36	1.5×2	8	True Color PWM	200kHz to 2MHz	5	<1	TSSOP-20E	I	Dual Buck LED Driver, 3000:1 Dimming, "Plain" for Up to 15V LED Strings, "-1" for Up to 25V LED Strings	$3.50
LT3476	2.8	16	1.5×4	32+	True Color PWM	200kHz to 2MHz	22	<1	5×7 QFN-38	I	Quad Driver, 1000:1 Dimming, for Buck, Boost and Buck-Boost Applications	$4.64
LT3478	2.8	36	4.5	16	True Color PWM	200kHz to 2.25MHz	22	<1	TSSOP-16E	I	3000:1 Dimming, for Buck, Boost and Buck-Boost Applications; "-1" Has Integrated I_{SENSE} Resistor	$3.60
LT3755	4.5	40	20(1)	25(1)	True Color PWM	100kHz to 1MHz	1.1	<1	3×3 QFN-16, MSOP-16E	I	40V Max V_{IN}; Boost, Buck Mode, Buck-Boost or SEPIC; 3000:1 Dimming, "-1" Has SYNC Pin	$2.75
LT3756	6.0	100	20(1)	25(1)	True Color PWM	100kHz to 1MHz	1.1	<1	3×3 QFN-16, MSOP-16E	I	100V Max V_{IN}; Boost, Buck Mode, Buck-Boost or SEPIC; 3000:1 Dimming, "-1" Has SYNC Pin	$2.90

† Primary Sort Column

Notes:

1. Output voltage and current depend on the choice of external components.

HIGH CURRENT LED DRIVERS FOR PHOTO FLASH/TORCH LIGHTING

Part Number	† Inductor or Charge Pump	V_{IN} Min (V)	V_{IN} Max (V)	†† Output Current (A)	Efficiency (%)	I_{SUPPLY} (µA)	I_{SHDN} (µA)	Package	High Current LED Flash/Torch	Extended Temp Range	Comments	Price 1K Qty
LTC3490	Inductor	1.0	3.2	0.35	90	1mA	20	3×3 DFN-8, SO-8	–	E	Boost, For 1- or 2-Cell Nickel or Alkaline Batteries	$2.10
LT3453	Inductor	2.7	6	0.5	90	600	<1	4×4 QFN-16	√	E	Buck-Boost, Delivers Up to 500mA, Supports Torch Mode	$1.85
LT3486	Inductor, Dual	24	35.5	0.8	90	9mA	<1	5×5 DFN-16, TSSOP-16E	√	E	Dual 1.3A LED Boost Driver with 1000:1 Dimming	$2.50
LT3454	Inductor	2.7	6	1.0	90	825	<1	3×3 DFN-10	√	E	Buck-Boost, Delivers Up to 1A, Supports Torch Mode	$1.95
LT3479	Inductor	2.5	24	2.0	85	6.5mA	<1	TSSOP-16E, 4×3 DFN-14	√	E	Boost, 3A, 40V Internal Switch, Ideal for High Current LED Strings	$3.00
LTC3214	Charge Pump	2.9	4.4	0.5	90	980	<2.5	3×3 DFN-10	√	E	Ideal for Med/High Current LEDs: AOT, LumiLEDs, etc.	$1.65
LTC3217	Charge Pump	2.9	4.4	0.6	92	400	<4	3×3 QFN-16	√	E	Drives Up to 4 LEDs for Camera Lighting, No Ballast Resistors	$1.70
LTC3215	Charge Pump	2.9	4.4	0.7	90	300	<2.5	3×3 DFN-10	√	E	Ideal for Med/High Current LEDs: AOT, LumiLEDs, etc.	$1.75
LTC3216	Charge Pump	2.9	4.4	1.0	90	300	<2.5	4×3 DFN-12	√	E	Ideal for High Current LEDs Like LumiLEDs	$2.00

† Primary Sort Column
†† Secondary Sort Column

ULTRALOW NOISE REGULATORS

Part Number	† Type	Function	Noise (μV_{RMS})	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	†† Output Current (A)	Switch Configuration	Switching Frequency	Package	Extended Temp Range	Comments	Price 1K Qty
Singles														
LTC1911	Charge Pump	Step-Down	<1mV_{RMS}	2.7	5.5	1.5	1.8	0.25	Internal	1.5MHz	MSOP-8	E	Fixed 1.5V/1.8V Output	$2.34
LTC3250	Charge Pump	Step-Down	<1mV_{RMS}	3.1	5.5	1.2	1.5	0.25	Internal	1.5MHz	ThinSOT	E	Fixed 1.2V/1.5V Output	$1.35
LTC3251	Charge Pump, Spread Spectrum	Step-Down	<1mV_{RMS}	2.7	5.5	0.9	1.6	0.5	Internal	1MHz to 1.6MHz	MSOP-10	E	Spread Spectrum Switching Noise @ -80dB	$1.95
LT3060	**Low Drop Out Reg**	**Step-Down**	**<30**	**1.7**	**45**	**0.6**	**36**	**0.04**	**Internal**	**–**	**2×2 DFN-8, ThinSOT**	**E**	**Stable with 2.2µF Ceramic Caps**	**C.F.**
LT3010	Low Drop Out Reg	Step-Down	<100	3	80	1.28	60	0.05	Internal	–	ThinSOT	E	Adj, 5V Output	$1.55
LT1761	Low Drop Out Reg	Step-Down	<20	1.8	20	1.2	20	0.1	Internal	–	ThinSOT	E	Adj, 1.5V, 1.8V, 2V, 2.5V, 2.8V, 3V, 3.3V, 5V Output	$0.90
LT1762	Low Drop Out Reg	Step-Down	<20	1.8	20	1.2	20	0.15	Internal	–	MSOP-8	E	Adj, 2.5V, 3V, 3.3V, 5V Output	$1.10
LT3012/B	Low Drop Out Reg	Step-Down	<100	4.0	80	1.24	60	0.25	Internal	–	TSSOP-16, 4×3 DFN-12	E	Stable with 3.3µF Caps	$2.05
LT3013/B	Low Drop Out Reg	Step-Down	<100	4.0	80	1.24	60	0.25	Internal	–	TSSOP-16, 4×3 DFN-12	E	PowerGood, Stable with 3.3µF Caps	$2.25
LT1962	Low Drop Out Reg	Step-Down	<20	1.5	20	1.2	20	0.3	Internal	–	MSOP-8	E	Adj, 1.5V, 1.8V, 2.5V, 3V, 3.3V, 5V Output	$1.65
LTC3025	Low Drop Out Reg	Step-Down	<80	0.9	5.5	0.4	3.6	0.3	Internal	–	2×2 DFN-6	E, I	Adj, 2×2 DFN	$1.65
LT1763	Low Drop Out Reg	Step-Down	<20	1.8	20	1.2	20	0.5	Internal	–	SO-8		Adj, 1.5V, 1.8V, 2.5V, 3V, 3.3V, 5V Output	$1.95
LT1965	Low Drop Out Reg	Step-Down	<40	1.8	20	1.2	19.5	1.1	Internal	–	TO-220, DD-5, MSOP-8, 3×3 DFN-8	E, I	Adj, 1.5V, 1.8V, 2.5V, 3.3V, Reverse Battery Protection, No Reverse Current	$1.88
LT3080/-1	Low Drop Out Reg	Step-Down	<40	1.2	36	0	34.7	1.1	Internal	–	TO-220, SOT-223, MSOP-8, 3×3 DFN-8	E	V_{OUT} (Set with Single Resistor) Down to 0V. Parallel Devices for Higher I_{OUT} or to Spread PCB Heat, "-1" Has Integrated Ballast Resistor	$1.81
LT1963/A	Low Drop Out Reg	Step-Down	<40	2.1	20	1.2	20	1.5	Internal	–	TO-220, DD-5, SOT-223, SO-8	E, I, MP	Adj, 1.5V, 1.8V, 2.5V, 3.3V Output	$2.15
LT1764/A	Low Drop Out Reg	Step-Down	<40	2.7	20	1.2	20	3	Internal	–	DD-5, TO-220	E	Adj, 1.8V, 2.5V, 3.3V Output	$3.30
LT1964	Negative Low Drop Out Reg	Step-Down	<30	–1.9	–20	–1.2	–20	0.2	Internal	–	ThinSOT	E	Adj, –5V Output	$1.35
LT1777	Switching Reg	Buck	<100µV_{P-P}	6.7	48	5	30	0.7	Internal	100kHz to 250kHz	SO-16	I		$2.65

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Type	Function	Noise (μV_{RMS})	V_{IN} Min (V)	V_{IN} Max (V)	V_{OUT} Min (V)	V_{OUT} Max (V)	†† Output Current (A)	Switch Configuration	Switching Frequency	Package	Extended Temp Range	Comments	Price 1K Qty
LT1533	Switching Reg	Push-Pull	<100μV_{P-P}	2.7	23	1.3	n/a	1	Internal	20kHz to 250kHz	SO-16	I	See LT1683 for Higher Power	$4.65
LT3439	Switching Reg, Isolated	Push-Pull	<200μV_{P-P}	2.8	20	2.8	n/a	1	Internal	20kHz to 250kHz	TSSOP-16E	E	Adjustable Slew Rates. 40dB Decrease in Noise	$3.50
LTM8032	**µModule Switching Reg**	**Step-Down**	**6mV**	**3.6**	**36**	**0.8**	**10**	**2**	**Internal**	**200kHz to 2.4MHz**	**9×15 LGA**	**E, I, MP**	**Low Noise µModule DC/DC Converter, EMC Compliant**	**$10.95**
LT1534	Switching Reg	Boost, Inverting	<100μV_{P-P}	2.7	23	1.3	n/a	2	Internal	20kHz to 250kHz	SO-16	I	See LT1738 for Higher Power	$3.93
LT1683	Switching Controller, Push-Pull	Boost, Flyback, Cuk	<200μV_{P-P}	4	20	5	100	5	External	20kHz to 250kHz	SSOP-20	E	See LT1533 for Lower Power	$4.75
LT1738	Switching Controller	Boost, Flyback, Cuk	<200μV_{P-P}	4	20	5	100	5	External	20kHz to 250kHz	SSOP-20	E, I	See LT1534 for Lower Power	$4.10
Duals														
LTC3252	Dual Charge Pump, Spread Spectrum	Step-Down	<2mV_{RMS}	2.7	5.5	0.9	1.6	0.25×2	Internal	1MHz to 1.6MHz	4×3 DFN-12	E	Spread Spectrum Switching Noise @ –70dB	$2.60
LT3023	Dual 100mA Low Drop Out Reg	Step-Down	<20	1.8	20	1.2	20	0.1×2	Internal	–	MSOP-10E, 3×3 DFN-10	I	Adjustable	$1.60
LT3027	Dual 100mA Low Drop Out Reg	Step-Down	<20	1.8	20	1.2	20	0.1×2	Internal	–	MSOP-10E, 3×3 DFN-10	I	Adjustable, Dual Inputs	$1.65
LT3024	Dual 500/100mA Low Drop Out Reg	Step-Down	<20	1.8	20	1.22	20	0.5/0.1	Internal	–	TSSOP-16E, 4×3 DFN-12	I	Dual 500mA/100mA Output, Low Noise <20μV_{RMS}	$2.45
LT3028	Dual 500/100mA Low Drop Out Reg	Step-Down	<20	1.8	20	1.22	20	0.5/0.1	Internal	–	TSSOP-16E, 5×3 DFN-16	I	Adjustable, Dual Inputs	$2.55
LT3029	Dual 500mA Low Drop Out Reg	Step-Down	<20	1.9	20	1.218	19.5	0.5×2	Internal	–	MSOP-16E, 3×4 DFN-16	E, I	Adj, Dual Inputs, Stable with 3.3µF Output Cap, Low 50µA I_Q Per Regulator	C.F.

† Primary Sort Column
†† Secondary Sort Column

BATTERY CHARGERS

Part Number[1]	† Maximum Charge Current (A)	Input Voltage (V)	USB Compatible	Number of Cells (Series)	Type of Charger	Pass Element (MOSFET or BJT)	Package	Charge Termination	Comments and Features	Price 1K Qty
NiMH, NiCd, SLA Battery Chargers										
LT1512	0.75	2.4 to 29	–	1 to 12	switching	Internal	SO-8	Microcontroller	SEPIC, Input Supply Voltage Can Be Above or Below Battery Voltage	$3.60
LT1510-5	1	7 to 29		1 to 12	switching	Internal	SO-8, SSOP-16, SO-16	Microcontroller	500kHz Integrated Switching Frequency for Small Solution	$4.05
LT1769	2	7 to 29		1 to 12	switching	Internal	TSSOP-20, SSOP-28	Microcontroller	Integrated Switching Charger in Thermally Enhanced Exposed PAD TSSOP-20	$4.95
LTC4060	2	4.5 to 10		1 to 4	linear	External	DFN-16, TSSOP-16	Delta V, t, T	No Microcontroller or Firmware Required	$3.70
LT1513	2	2.4 to 29	–	1 to 12	switching	Internal	DD and T7	Microcontroller	SEPIC, Input Supply Voltage Can Be Above or Below Battery Voltage	$4.20
LT1511	3	7 to 29		1 to 12	switching	Internal	SO-24	Microcontroller	Integrated Switching Charger with 4A Internal Switch	$6.50
LTC4010	4	4.5 to 34		1 to 16	switching	External, Synchronous	TSSOP-16E	–dV, dT/dt, t, T	High Efficiency, Fast Charging	$4.45
LTC4011	4	4.5 to 34		1 to 16	switching	External, Synchronous	TSSOP-20E	–dV, dT/dt, t, T	High Efficiency, Fast Charging, Integrated PowerPath Control	$4.60
LTC4008/-1	4	6 to 28		4 to 18	switching	External, Synchronous	SSOP-20	Microcontroller	Small Design, Low Profile Inductors. "-1" Has No Input MOSFET for Isolation of Battery From Input	$3.70
LTC4009	4	6 to 28	–	1-4 Li, up to 18 Ni	switching	External, Synchronous	4×4 QFN-20	Microcontroller	Multi-Chemistry, External Resistor Sets V_{FLOAT}, V_{OUT} Range: 3V to 28V	$2.95
LTC4009-1/-2	4	6 to 28	–	1-4 Li	switching	External, Synchronous	4×4 QFN-20	Microcontroller	Multi-Chemistry, "-1" Has Fixed V_{FLOAT} of 4.1V, 8.2V, 12.3V, 16.4V; "-2" Has Fixed V_{FLOAT} of 4.2V, 8.4V, 12.6V, 16.8V	$2.95
LT1505/-1	6	6.7 to 26		1 to 12	switching	External, Synchronous	SSOP-28	Microcontroller	Synchronous Switching Controller, High Efficiency. "-1" Does Not Have Adapter Current Limit Control	$4.60
LTC1759	6	6.7 to 26		1 to 17	switching	External, Synchronous	SSOP-36	Microcontroller	SMBus Charger with Integrated SMBus Accelerator™	$5.40
LTC1960	6	6 to 28		1 to 18	switching	External, Synchronous	SSOP-36	Microcontroller	Dual Battery Selector and Charger; Fast Charge; Crisis Management	$6.95

† Primary Sort Column

BATTERY CHARGERS

Part Number[1]	† Maximum Charge Current (A)	Input Voltage (V)	USB Compatible	Number of Cells (Series)	Type of Charger	Pass Element (MOSFET or BJT)	Package	Charge Termination	Comments and Features	Price 1K Qty
Li-Ion and Li-Polymer Battery Chargers										
LTC4054L	0.15	4.25 to 6.5	yes	1	linear	Internal	ThinSOT	C/10	Standalone Precision 150mA Charge Current Linear Charger	$1.40
LTC1734L	0.18	4.55 to 8	–	1	linear	External	ThinSOT	Microcontroller	Precision 180mA Charge Current Linear Charger	$1.25
LTC4065L/X	0.25	3.75 to 5.5	yes	1	linear	Internal	2×2 DFN-6	Timer + C/10 Detect	2×2 DFN, Precision 250mA Charge Current, For Coin Cells	$1.10
LTC4080/X	0.5	3.75 to 5.5	yes	1	linear	Internal	3×3 DFN-10, MSOP-10	Timer + C/10 Detect	"Integrated High Efficiency 300mA Sync Buck, AC Present (ACPR) Output, "X" Version Disables Trickle Charge"	$1.90
LTC4081	0.5	3.75 to 5.5	yes	1	linear	Internal	3×3 DFN-10	Timer + C/10 Detect	NTC Input; Integrated High Efficiency 300mA Sync Buck	$1.90
LTC4056	0.7	4.5 to 6.5	yes	1	linear	External	ThinSOT	Onboard Timer	No Charging Interruption Due to Input Voltage Fluctuation	$1.35
LTC1734	0.7	4.55 to 8	–	1	linear	External	ThinSOT	Microcontroller	ThinSOT Linear Charger; Only Three Components for Complete Solution	$1.25
LTC4065/-4.4	0.75	3.75 to 5.5	yes	1	linear	Internal	2×2 DFN-6	Timer + C/10 Detect	2×2 DFN with Enable, Standalone, -4.4 Has 4.4V Float Voltage	$1.05
LTC4065A	0.75	3.75 to 5.5	yes	1	linear	Internal	2×2 DFN-6	Timer + C/10 Detect	2×2 DFN with AC/DC Power Detection, Standalone	$1.05
LTC4069/-4.4	0.75	3.75 to 5.5	yes	1	linear	Internal	2×2 DFN-6	Timer + C/10 Detect	2×2 DFN with Thermistor Input, Standalone, -4.4 Has 4.4V Float Voltage	$1.10
LTC4054X	0.8	4.25 to 6.5	yes	1	linear	Internal	ThinSOT	C/10	Standalone Operation, Thermal Regulation	$1.40
LTC4057	0.8	4.25 to 6.5	yes	1	linear	Internal	ThinSOT	Microcontroller	LTC4054 with External Charge Termination Control	$1.35
LT1512	0.8	2.4 to 29	–	1 to 6 Li	switching	Internal	SO-8	Microcontroller	Input Supply Voltage Can Be Above or Below Battery Voltage	$3.75
LTC4059	0.9	3.75 to 8	yes	1	linear	Internal	2×2 DFN-6	Microcontroller	2×2 DFN	$1.35
LTC4059A	0.9	3.75 to 8	yes	1	linear	Internal	2×2 DFN-6	Microcontroller	2×2 DFN with AC/DC Power Detection	$1.45
LTC4058/X	0.95	4.25 to 6.5	yes	1	linear	Internal	3×3 DFN-8	C/10	Standalone Linear Charger in 3×3 DFN	$1.70
LTC4068/X	0.95	4.25 to 6.5	yes	1	linear	Internal	3×3 DFN-8	C/x	Adjustable Charge Termination Current	$1.70
LTC4075	0.95	4.3 to 8	yes	1	linear	Internal	3×3 DFN-10	C/x	Dual Input: USB or AC Adapter, USBPWR Status Pin, 650mA USB Compatible	$1.88
LTC4075X	0.95	4.3 to 8	yes	1	linear	Internal	3×3 DFN-10	C/x	Dual Input: USB or AC Adapter, No Trickle Charge, USBPWR Status Pin, 650mA USB Compatible	$1.88
LTC4075HVX	0.95	4.3 to 5.5 22V abs max	yes	1	linear	Internal	3×3 DFN-10	C/x	22V Abs Max; Dual Input: USB or AC Adapter, No Trickle Charge, USBPWR Status Pin, 650mA USB Compatible	$2.00
LTC4076	0.95	4.3 to 8	yes	1	linear	Internal	3×3 DFN-10	C/x	Dual Input: USB or AC Adapter, Hpwr Input for Low or High Power USB, 650mA USB Compatible	$1.88
LTC4077	0.95	4.3 to 8	yes	1	linear	Internal	3×3 DFN-10	C/10	Dual Input: USB or AC Adapter, Hpwr Input for Low or High Power USB, 650mA USB Compatible	$1.88
LTC4078/X/-2	0.95	4.3 to 5.5 22V abs max	yes	1	linear	Internal	3×3 DFN-10	C/x	22V Abs Max; Dual Input: USB or AC Adapter, BAT Detect Pin, 650mA USB Compatible; "X" Version Disables Trickle Charge; "-2" Version Has Reduced 2.5V Trickle Charge Threshold	$2.00
LTC3550/-1	0.95	4.3 to 8	yes	1	linear	Internal	5×3 DFN-16	C/x	Dual Input: USB or AC Adapter, No Trickle Charge, 600mA Synchronous Buck with Fixed 1.875V Output ("-1" Has Adjustable V_{OUT})	$2.00
LTC3552/-1	0.95	4.25 to 8	yes	1	linear	Internal	5×3 DFN-16	C/x	Integrated 0.8A and 0.4A Dual Synchronous Buck. "-1" Has Fixed 1.8V and 1.575V Outputs, Respectively	$2.30
LTC4095	0.95	4.3 to 5.5	yes	1	linear	Internal	2×2 DFN-8	Timer + C/10 Detect	HPWR + SUSP USB Pins, 2×2 DFN-8 with NTC, 4 Indicator /CHRG States	$1.15
LTC4064	1	4.25 to 6.5	yes	1	linear	Internal	MSOP-10	Timer + C/10 Detect	For Battery Backup; 4.0V Float Voltage	$1.85
LT1510-5	1	6.2 to 29	–	1 to 4	switching	Internal	SO-8, SSOP-16, SO-16	LTC1729	500kHz Integrated Switching Frequency for Small Solution	$4.05
LTC4061	1	4.3 to 8	yes	1	linear	Internal	3×3 DFN-10	Timer + C/x	Complete, Standalone Linear Charger in DFN Package + Thermistor + AC Present Status	$1.95
LTC4061-4.4	1	4.5 to 8	–	1	linear	Internal	3×3 DFN-10	Timer + C/x	Complete, Standalone Linear Charger in DFN Package, for New 4.4V Batteries	$2.05
LTC4062	1	4.3 to 8	yes	1	linear	Internal	3×3 DFN-10	Timer + C/x	Complete, Standalone Linear Charger in DFN Package + Micropower Comparator	$1.95
LTC4063	1	4.3 to 8	yes	1	linear	Internal	3×3 DFN-10	Timer + C/x	Complete, Standalone Linear Charger in DFN Package + LDO	$2.10
LTC4055/-1	1	4.3 to 5.5	yes	1	linear	Internal	4×4 QFN-16	Onboard Timer	USB Power Manager and Battery Charger with Low-Loss 200mΩ Ideal Diode; "-1" Has 4.1V V_{FLOAT}	$2.20
LTC4089/-1/-5	1.2	4.35 to 5.5 USB, 6 to 36 wall	yes	1	linear	Internal	6×3 DFN-22	Timer + C/10 Detect	USB Power Manager and High Voltage, High Efficiency Charger, Battery Tracking, "-1" and "-5" Have Fixed 5V Output. "-1" Has 4.1V Float Voltage	$2.95
LTC4096/X	1.2	4.25 to 5.5	yes	1	linear	Internal	3×3 DFN-10	C/x	Dual Input: USB or AC Adapter, 950mA USB Compatible, "X" Version is ISL6299 Replacement	$1.50
LTC4097	1.2	4.25 to 5.5	yes	1	linear	Internal	3×2 DFN-12	C/x	2×3 DFN Package; NTC, Dual Input: USB or AC Adapter, HPWR + SUSP Pins	$1.50
LTC4053	1.25	4.25 to 6.5	yes	1	linear	Internal	MSOP-10, 3×3 DFN-10	Timer + C/10 Detect	USB Compatible; Complete and Standalone; Thermal Regulation Prevents Overheating	$1.90
LTC4067	1.25	4.35 to 5.5	yes	1	linear	Internal	4×3 DFN-12	Timer	13V OVP; USB Power Manager with Optional External Ideal Diode Controller	$1.70
LTC4052	1.3	4.5 to 10	yes	1	Pulse	Internal	MSOP-10	Timer + C/10 Detect	Minimum Heat Dissipation; Current Limit for Safety; Standalone	$1.85

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number[1]	† Maximum Charge Current (A)	Input Voltage (V)	USB Compatible	Number of Cells (Series)	Type of Charger	Pass Element (MOSFET or BJT)	Package	Charge Termination	Comments and Features	Price 1K Qty
LTC4066/-1	1.5	4.3 to 5.5	yes	1	linear	Internal	4×4 QFN-24, 4×4 UTQFN-24 (Plain)	Timer + C/10 Detect	USB Power Manager and Battery Charger with Low-Loss 50mΩ Ideal Diode, "-1" Has 4.1V Li-Ion Cell Float Voltage	$2.30
LTC4088/-1/-2	1.5	4.25 to 5.5	yes	1	linear	Internal	4×3 DFN-14	Timer + C/x Detect	Switching USB PowerPath Manager, Bat-Track, Charge Current Reduces to Maintain 3.6V Output @ Load. Plain Version Has 3.3V LDO, "-1" and "-2" Do Not. Default Power-Up State is Off for "-1" and On for "-2"	$2.20
LTC4098/-1	1.5	4.25 to 5.5	yes	1	Linear	Internal	3×4 UTQFN-20	Timer + C/x Detect	Switching PowerPath, 66V OVP, Up to 38V V_{IN} (60V abs max) with HV Buck, High Efficiency Charger, Bat-Track, Instant-On Operation, "-1" Has 4.1V V_{FLOAT}	$2.50
LTC4099	1.5	4.35 to 5.5	yes	1	linear	Internal	3×4 UTQFN-20	Timer + C/x Detect	I^2C Operation; Overtemp Battery Conditioning Circuit; Switching PowerPath, 66V OVP, Up to 38V V_{IN} (60V abs max) with HV Buck, High Efficiency Charger, Bat-Track, Instant-ON Operation	$2.80
LTC4085/-1	1.5	4.35 to 5.5	yes	1	linear	Internal	4×3 DFN-14	Timer + C/10 Detect	USB Power Manager and Charger, Optional External Ideal Diode Controller. "-1" Has 4.1V Float Voltage	$1.65
LTC1733	1.5	4.5 to 6.5	–	1	linear	Internal	MSOP-10E	Timer + C/10 Detect	Thermal Regulation for No Overheating; Integrated MOSFET, R_{SENSE}, Diode; Standalone; Thermistor Interface	$2.35
LTC4090/-5	1.5	4.35 to 5.5 USB, 6-36V wall	yes	1	linear	Internal	3×6 DFN-22	Timer + C/10 Detect	High Voltage, High Efficiency Charger, Bat-Track, Instant-On Operation, 60V Abs Max V_{IN}; "-5" Version Has Fixed 5V Output without Bat-Track	$3.25
LT1571	1.5	6.2 to 27	–	1, 2, adj.	switching	Internal	SSOP-16, SSOP-28	LTC1729	Integrated Switching Charger with C/10 Detection/Indicator	$3.95
LT1513	1.6	2.4 to 29	–	1 to 6 Li	switching	Internal	DD, TO-220	Microcontroller	Input Supply Voltage Can Be Above or Below Battery Voltage	$4.00
LT3650	**2**	**9 to 32 (40 Max)**	**–**	**1, 2**	**switching**	**Internal**	**3×3 DFN-12**	**C/10 or Timer**	**Programmable Input Current Limit, 1MHz Fixed Switching, NTC Monitor, Bad Battery Detect. "-8.2" for Two 4.1V Li-Ion Cells & "-4.1" for Single Cell, "-8.4" for Two 4.2V Cells & "-4.2" for Single Cell**	**$2.80**
LTC4001/-1	2	4.0 to 5.5	–	1	switching	Internal	4×4 QFN-16	Timer or C/x	Integrated R_{SENSE}, Small Inductor, Synchronous, High Efficiency; "-1" for 4.1V Li Cells	$2.20
LTC4050	2	4.5 to 12	–	1	linear	External	MSOP-10	Timer + C/10 Detect	LTC1732 + Thermistor Interface	$2.25
LTC1731	2	4.5 to 12	–	1,2	linear	External	MSOP-8, SO-8	Timer + C/10 Detect	Standalone Linear Charger	$1.55
LTC1732	2	4.5 to 12	–	1,2	linear	External	MSOP-10	Timer + C/10 Detect	Standalone Linear Charger with AC Adapter Detection	$2.15
LT1769	2	7 to 29	–	1 to 4	switching	Internal	SSOP-28, TSSOP-20	LTC1729	Integrated Switching Charger in Thermally Enhanced Exposed Pad, 20-Lead SSOP	$4.95
LT1511	3	7 to 29	–	1 to 4	switching	Internal	SO-24	LTC1729	Integrated Switching Charger with 4A Internal Switch	$6.50
LTC4002	3	4.7 to 24	–	1, 2	switching	External	3×3 DFN-10, SO-8	Timer + C/10 Detect	Charges 1- or 2-cell Li-Ion Battery From High V_{IN}	$1.80
LT3651	**4**	**4.75 to 32 (40 Max)**	**–**	**1, 2**	**switching**	**Internal**	**5×6 QFN-36**	**C/10 or Timer**	**Synchronous, Programmable Input Current Limit, 200kHz to 1MHz Adj. Switching Frequency, "-4.2" Version for Single Li-Ion Cell, "-8.4" for Two Cells**	**C.F.**
LTC4006	4	6 to 28	–	2 to 4	switching	External, Synchronous	SSOP-16	Timer + C/10 Detect	Small IC, Standalone	$3.60
LTC4007/-1	4	6 to 28	–	3 to 4	switching	External, Synchronous	SSOP-24 (Plain), 4×5 QFN-24 ("-1")	Timer + C/10 Detect	Full-Featured, Standalone Operation, Auto-Restart Enabled. "-1" Has Auto-Restart Disabled	$3.80
LTC4008	4	6 to 28	–	2 to 6	switching	External, Synchronous	SSOP-20	Microcontroller	Multi-Chemistry Charger, µC for Termination	$3.70
LTC4009/-1/-2	4	6 to 28	–	1 to 4 Li, 2V to 28V	switching	External, Synchronous	4×4 QFN-20	Microcontroller	Multi-Chemistry Charger, Requires µC for Termination; "Plain" and "-3" Have Adjustable V_{FLOAT}, "Plain" Has AC Present Status Pin, "-1" Has 4.1V V_{FLOAT}, "-2" Has 4.2V V_{FLOAT}	$2.95
LTC4012	4	6 to 28	–	1 to 4 Li, 2V to 28V	switching	External, Synchronous	4×4 QFN-20	Microcontroller	PowerPath Control; Multi-Chemistry Charger, Requires µC for Termination; "Plain" and "-3" Have Adjustable V_{FLOAT}, "Plain" Has AC Present Status Pin, "-1" Has 4.1V V_{FLOAT}, "-2" Has 4.2V V_{FLOAT}	$3.15
LT1505	6	6.7 to 26	–	1 to 4	switching	External, Synchronous	SSOP-28	Microcontroller	Synchronous Switching Controller for High Current, High Efficiency with Adapter Current Limit	$4.60
Buck/Boost Battery Chargers										
LT1512	0.8	2.4 to 29	–	1 to 6 Li, 1 to 12 Ni	switching	Internal	SO-8	LTC1729	Input Supply Voltage Can Be Above or Below Battery Voltage	$3.75
LT1513	1.6	2.4 to 29	–	1 to 6 Li, 1 to 12 Ni	switching	Internal	DD, TO-220	LTC1729	Input Supply Voltage Can Be Above or Below Battery Voltage	$4.00
LTC1980	2	4.1 to 12	–	1, 2	switching	External	SSOP-24	Timer + C/10 Detect	Combination Battery Charger and System DC/DC Converter	$3.75

† Primary Sort Column

BATTERY CHARGERS

Part Number[1]	† Maximum Charge Current (A)	Input Voltage (V)	USB Compatible	Number of Cells (Series)	Type of Charger	Pass Element (MOSFET or BJT)	Package	Charge Termination	Comments and Features	Price 1K Qty
SMBus, I²C, SPI Controlled Battery Chargers										
LTC4110	3	6 to 20	–	1-4 Li, up to 10 Ni, up to 6 SLA	switching	External, Synchronous	5×7 QFN-38	C/10, Timer, Microcontroller	Backup Smart/Standard Battery System Manager, Battery Charger and Calibrator, I²C/SMBus Interface, Shutdown. V_{BAT} Voltage Range: 3.5V to 18V; Flyback Topology	$9.25
LTC1960	4	6 to 28	–	1 to 6	switching	External, Synchronous	SSOP-36, 5×7 QFN-38	Microcontroller	Dual Battery Selector and Charger; Fast Charge; Crisis Management; SPI Interface	$6.95
LTC1760	4	6 to 28	–	2 to 6	switching	External, Synchronous	TSSOP-48	Standalone or Microcontroller	Dual Battery Selector and Charger; Crisis Management; SMBus v. 1.1, Level 2 Charger; Operates with or without Host Microcontroller	$7.95
LTC4100	4	6 to 28	–	2 to 6	switching	External, Synchronous	SSOP-24	Standalone or Microcontroller	SMBus v. 1.1, Level 2 Charger; Operates with or without Host Microcontroller	$5.00
LTC4101	4	6 to 28	–	1	switching	External, Synchronous	SSOP-24	Standalone or Microcontroller	3.0V to 5.5V Battery Voltage, Optimized for 1-Cell Li or 3-4 Cell Ni, SMBus v. 1.1, Level 2 Charger; Operates with or without Host Microcontroller	$5.00
LTC1759	8	6.7 to 26	–	1 to 4	switching	External, Synchronous	SSOP-36	Microcontroller	SMBus Charger with Integrated SMBus Accelerator	$5.40

† Primary Sort Column

Notes:
1. "X" Version Has Trickle Charge Disabled

BATTERY CHARGER MULTI-FUNCTION PMICs

Part Number	† Number of Regulators[1]	Buck(s)	Buck-Boost (BB)/Boost	LDO(s)	Li-Ion/Polymer Charger	Max Charge Current (A)	PowerPath™ Topology	Ideal Diode	Input Voltage (V)	Interface	Package (mm^2)	Notes	Price 1K Qty
LTC3554	**2**	**200mA×2**	**–**	**–**	**linear**	**0.5[2]**	**linear**	**internal**	**4.35 to 5.5**	**–**	**3×3 UTQFN-20**	**10µA Stanby Mode I_Q, Pushbutton ON/OFF Control, RESET Function**	**C.F.**
LTC3566	2	–	1A BB	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	4.25 to 5.5	–	4×4 QFN-24	Bat-Track, "-2" Reduces Charge Current for Low V_{BAT}	$3.85
LTC3567	2	–	1A BB	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	4.25 to 5.5	I²C	4×4 QFN-24	Bat-Track	$3.85
LTC3455	3	400mA, 600mA[3]	–	Flexible Gain Block for LDO Controller	linear	0.5	linear	–	5, USB, Li-Ion	–	4×4 QFN-24	Dual Synchronous Buck, Hot Swap Output. "-1" Has 4.1V V_{FLOAT}	$3.95
LTC3101	**4**	**350mA×2**	**0.8A BB**	**3.3V, 50mA always on**	**n/a**	**–**	**linear**	**internal**	**1.8V to 5.5V, USB**	**–**	**4×4 QFN-24**	**Ideal for 2A/3A Alkaline Cells, 38µA I_Q, Hot Swap Output, Pushbutton Control, Prog Power-On Sequencing,**	**$3.95**
LTC3555	4	1A, 400mA×2	–	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion	I²C	4×5 QFN-24	Bat-Track; "-1" and "-3" Have Enhanced 'Instant-On' Operation While the "Plain" Does Not; "-3" Has 4.1V V_{FLOAT}	$4.65
LTC3557	4	600mA, 400mA×2	–	3.3V, 25mA always on	HV buck + linear	1.5[2]	linear	int + ext (opt.)	5, USB, Li-Ion, Hi-V 38V Max	–	4×4 QFN-28	Bat-Track (DC/DC Output = 300mV Above V_{BAT}), 38V Buck Interface; "-1" Has 4.1V V_{FLOAT}	$3.95
LTC3556	4	400mA×2	1A BB	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion	I²C	4×5 QFN-28	Bat-Track	$4.80
LTC3576	4	400mA×2, 1A	–	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion, Hi-V 38V with 60V transients; OVP: 68V	I²C	4×6 QFN-38	Bat-Track; Bidirectional USB On-The-Go (OTG) "-1" Has 4.1V V_{FLOAT}	$4.80
LTC3586	5	400mA×2	1A BB, 0.8A Boost	3.3V, 25mA always on	sync buck + linear	1.5[2]	switching	int + ext (opt.)	5, USB, Li-Ion	–	4×6 QFN-38	Bat-Track, Integrated Buck-Boost and Boost Regulators	$5.30
LTC3577	**7**	**600mA, 400mA×2**	**20mA Boost/ LED Drvr**	**150mA×2, 3.3V 20mA always on**	**HV buck + linear**	**1.5[2]**	**linear**	**int + ext (opt.)**	**5, USB, Li-Ion, Hi-V 38V with 60V transients; OVP**	**I²C**	**4×7 QFN-44**	**3 Bucks (0.6A, 0.4A×2), 150mA×2 LDOs, 40V 20mA Buck Drives Up to 10 LEDs, Interfaces to HV Buck, Instant-On Operation, Input Current Limiting, OVP**	**C.F.**

† Primary Sort Column

Notes:
1. Excludes the DC/DC converter used for battery charging
2. The DC/DC converter can provide charge current and system power but the total cannot exceed the max charge current
3. May be increased to 1A with additional components

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	Maximum Charge Current (A)	USB Compatible	Power Manager Topology	Input Voltage (V)	Number of Cells (Series)	Charger Topology	Pass Element (MOSFET OR BJT)	Package	Charge Termination	Comments and Features	Price 1K Qty
Li-Ion and Li-Polymer Battery Chargers											
LTC4055	1	yes	linear	4.3 to 5.5	1	linear	Internal	4×4 QFN-16	Onboard Timer	Integrated 200mΩ Ideal Diode; "-1" Version Has 4.1V V_{FLOAT}	$2.20
LTC4089	1.2	yes	linear	4.35 to 5.5 USB, 6-36V wall	1	linear	Internal	3×6 DFN-22	Timer + C/10	40V V_{IN} Abs Max, High Efficiency Charger, Bat-Track, 4.2V V_{FLOAT}, Instant-On Operation	$2.95
LTC4089-1/-5	1.2	yes	linear	4.35 to 5.5 USB, 6-36V wall	1	linear	Internal	3×6 DFN-22	Timer + C/10	5V Output, 40V V_{IN} Abs Max, High Efficiency Charger; Instant-On Operation; "-1" for 4.1V Li-Ion, "-5" for 4.2V Li-Ion	$2.95
LTC4067	1.25	yes	linear	4.35 to 5.5	1	linear	Internal	3×4 DFN-14	Onboard Timer	13V OVP; Integrated 200mΩ Ideal Diode with 50mΩ Optional External Ideal Diode Controller	$1.70
LTC4088	1.5	yes	switching	4.25 to 5.5	1	linear	Internal	3×4 DFN-14	Timer + C/x	Switching USB PowerPath Manager, Synchronous Buck, Bat-Track, Charge Current Reduces to Maintain 3.6V Output @Load. Plain Version Has 3.3V LDO While "-1" and "-2" Do Not. Power-Up Charger State is Off for "-1" and On for "-2".	$2.20
LTC4098	1.5	yes	switching	4.35 to 5.5 USB	1	linear	Internal	3×4 UTQFN-20	Timer + C/x	66V OVP, up to 38V V_{IN} (60V Abs Max) with HV Buck, High Efficiency Charger, Bat-Track, Instant-On Operation; "-1" for 4.1V Li-Ion/Polymer	$2.50
LTC4099	1.5	yes	switching	4.35 to 5.5 USB	1	linear	Internal	3×4 UTQFN-20	Timer + C/x	I^2C Control, Overtemp Battery Conditioning Circuit; 66V OVP, up to 38V V_{IN} (60V Abs Max) with HV Buck, High Efficiency Charger, Bat-Track, Instant-On Operation	$2.80
LTC4090	1.5	yes	linear	4.35 to 5.5 USB, 6-36 wall	1	linear	Internal	3×6 DFN-22	Timer + C/10	60V V_{IN} Abs Max, High Efficiency Charger, Bat-Track, Instant-On Operation, "-5" Has 5V Output and No Bat-Track	$3.25
LTC4066	1.5	yes	linear	4.3 to 5.5	1	linear	Internal	4×4 UTQFN-24, 4×4 QFN-24	Onboard Timer	Integrated Low-Loss 50mΩ Ideal Diode; "-1" Has 4.1V V_{FLOAT}	$2.30
LTC4085	1.5	yes	linear	4.35 to 5.5	1	linear	Internal	3×4 DFN-14	Onboard Timer	Integrated 200mohm Ideal Diode with 50mΩ Optional External Ideal Diode Controller; "-1" Has 4.1V V_{FLOAT}	$1.65

BATTERY CHARGER PLUS DC/DC

Part Number	Number of Regulators[1]	Buck(s)	Buck-Boost (BB)/ Boost	Li-Ion/Polymer Charger	Max Charge Current (A)	Input Voltage (V)	Package (mm^2)	Notes	Price 1K Qty
LTC3550	1	600mA	–	linear	0.95	4.3 to 8	3×5 DFN-16	Dual Input Battery Charger, Adjustable Output Buck. "-1" Has Fixed 1.875V Output Buck	$2.00
LTC3552	2	400mA, 800mA	–	linear	0.95	4.25 to 8	3×5 DFN-16	Dual Adjustable Output Bucks. "-1" Has Fixed Output Bucks (1.575V & 1.8V)	$2.30
LTC3559	2	400mA×2	–	linear	0.95	5, USB	3×3 QFN-16	Dual Buck Regulator, "-1" Has 4.1V V_{FLOAT}	$2.15
LTC3558	2	400mA	0.4A BB	linear	0.95	5, USB	3×3 QFN-20	Buck Plus Buck-Boost Regulator	$2.35
LTC4080/X	1	300mA	–	linear	0.5	3.75 to 5.5(2)	3×3 DFN-10, MSOP-10E	Integrated 300mA Sync Buck, AC Present (ACPR) Output, "X" Version Disables Trickle Charge	$1.90
LTC4081	1	300mA	–	linear	0.5	3.75 to 5.5(2)	3×3 DFN-10	Integrated 300mA Sync Buck, NTC Input	$1.90

4.1V/4.0V Li-Ion BATTERY CHARGERS

Part Number	Number of Cells	† Max Charge Current (A)	Battery Charger Type	USB Compatible	Interface to High Voltage Buck	PowerPath™ Control	Integrated DC/DC Converters[1]	Input Voltage (V)	Package (mm)	Notes	Price 1K Qty
LTC3455-1	1	0.5	linear	yes	–	yes	2 Bucks	2.7 to 5.5	4×4 QFN-24	Hot Swap Output	$3.95
LTC1734-4.1	1	0.7	linear	yes	–	–	–	4.55 to 8	ThinSOT		$1.25
LTC3559-1	1	0.95	linear	yes	–	–	1 Buck-Boost, 1 Buck	4.3 to 5.5	3×3 QFN-20	400mA Sync Buck-Boost, 400mA Sync Buck	$3.95
LTC4055-1	1	1	linear	yes	–	yes	–	4.3 to 5.5	4×4 QFN-24	Integrated 200mΩ Ideal Diode	$2.30
LTC4064 (4.0V)	1	1	linear	yes	–	–	–	4.25 to 6.5	MSOP-10	4.0V Float Voltage	$1.85
LTC4089-1	1	1.2	linear	yes	–	yes	–	6 to 36	3×6 DFN-22	High Voltage Charger, 1.2A Buck Precedes Linear Charger for High Efficiency, Bat-Track	$2.95
LTC1733	1	1.5	linear	yes	–	–	–	4.5 to 6.5	MSOP-10E	set 4.1V via SEL Pin	$2.35
LTC4066-1	1	1.5	linear	yes	–	yes	–	4.3 to 5.5	4×4 QFN-24	Integrated 50mΩ Ideal Diode	$2.30

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

4.1V/4.0V Li-Ion BATTERY CHARGERS

Part Number	Number of Cells	† Max Charge Current (A)	Battery Charger Type	USB Compatible	Interface to High Voltage Buck	PowerPath™ Control	Integrated DC/DC Converters[1]	Input Voltage (V)	Package (mm)	Notes	Price 1K Qty
LTC4085-1	1	1.5	linear	yes	–	yes	–	4.35 to 5.5	3×4 DFN-14	Integrated 200mΩ Ideal Diode with Optional External Ideal Diode	$1.65
LTC3557-1	1	1.5	linear	yes	yes	yes	3 Bucks, 1 LDO	4.35 to 5.5	4×4 QFN-28	3 Bucks (0.6A, 0.4A×2), 25mA Always-On LDO, Interfaces to HV (8V to 38V) Buck for Efficient Charging	$3.95
LTC3577-1	**1**	**1.5**	**linear**	**yes**	**yes**	**yes**	**3 Bucks, 2 LDO**	**4.35 to 5.5**	**4×7 QFN-44**	**3 Bucks (0.6A, 0.4A×2), 2×150mA LDOs, Interfaces to HV Buck for Efficient Charging, Linear PowerPath Control, OVP**	**C.F.**
LTC3576-1	1	1.5	linear	yes	yes	yes	3 Bucks, 1 LDO	4.35 to 5.5	4×6 QFN-38	3 Bucks (1A, 0.4A×2), 20mA Always-On LDO, Interfaces to HV Buck for Efficient Charging, Linear PowerPath Control, USB OTG Support, OVP to 68V	$4.80
LTC3555-3	1	1.5	linear	yes	no	yes	3 Bucks, 1 LDO	4.35 to 5.5	4×5 QFN-28	3 Bucks (1A, 0.4A×2), 25mA Always-On LDO, Undervoltage Current Limit, Switching PowerPath Control	$4.65
LTC3586-1	1	1.5	linear	yes	no	yes	1 Boost, 1 Buck-Boost, 2 Bucks, 1 LDO	4.35 to 5.5	4×6 QFN-38	1 Boost (800mA I_{OUT}), 1 Buck-Boost (1A), 2 Bucks (0.4A×2), 20mA Always-On LDO, Switching PowerPath Control	$5.30
LTC4098-1	1	1.5	linear	yes	yes	yes	–	4.35 to 5.5	3×4 UTQFN-20	OVP, Up to 38V Continuous with LTC Hi-V Buck (60V Transient), Bat-Track, Instant-On Operation	$2.50
LTC4099	1	1.5	linear	yes	yes	yes	–	4.35 to 5.5	3×4 UTQFN-20	I^2C Interface, OVP, Up to 38V Continuous with LTC Hi-V Buck (60V Transient), Bat-Track, Instant-On Operation	$2.80
LTC1731-4.1	1,2	2	linear	–	–	–	–	4.5 to 12	MSOP-8, SO-8	External R_{SENSE}	$1.55
LTC1732-4	1,2	2	linear	–	–	–	–	4.5 to 12	MSOP-10	External R_{SENSE}, AC Present Status Pin; Set V_{FLOAT} 4.1V or 4.2V Via SEL Pin	$2.15
LTC4050-4.1	1	2	linear	–	–	–	–	4.5 to 12	MSOP-10	Thermistor Interface	$2.25
LTC3650-4.1/-8.2	**1, 2**	**2**	**switchmode**	**–**	**–**	**–**	**–**	**C/10 or Timer**	**3×3 DFN-12**	**Programmable Input Current Limit, 1MHz Switching, NTC Monitor, Bad Battery Detect**	**$2.80**
LTC4001-1	1	2	switchmode	–	–	–	–	4 to 5.5	4×4 QFN-16	Synchronous, Integrated R_{SENSE}	$2.20
LTC1980	1,2	2	switchmode	–	–	–	–	4.1 to 12	SSOP-24	Buck-Boost, Combination Charger & DC/DC Converter; Set 4.1V Via BATT1/BATT2 Pins	$3.75
LTC4007/-1	3,4	4	switchmode	–	–	–	–	6 to 28	SSOP-24	Synchronous, NTC Thermistor Input, Full-Featured; Set 4.1V Via CHEM Pin	$3.80
LTC4100	2-6	4	switchmode	–	–	–	–	6 to 28	SSOP-24	Smart Charger, SMBus v 1.1, Level 2 Charger	$5.00
LTC4101	1	4	switchmode	–	–	–	–	6 to 28	SSOP-24	Smart Charger, SMBus v 1.1, Level 2 Charger, Optimized for 1-Cell Li-Ion/Polymer or 3-4 Cell Ni	$5.00
LTC4008	2-6	4	switchmode	–	–	–	–	6 to 28	SSOP-20	Multi-Chemistry, Needs µC for Charge Termination	$3.70
LTC4009-1	1-4	4	switchmode	–	–	–	–	6 to 28	4×4 QFN-20	Multi-Chemistry, Needs µC for Charge Termination	$2.95
LTC4012-1	1-4	4	switchmode	–	–	–	–	6 to 28	4×4 QFN-20	PowerPath Control; Multi-Chemistry, Needs µC for Charge Termination	C.F.
LTC1960	1-6	4	switchmode	–	–	–	–	6 to 28	SSOP-36, 5×7 QFN-38	Dual Smart Battery Selector and Charger; SPI Interface	$3.70
LTC1760	2-6	4	Switchmode	–	–	–	–	6 to 28	TSSOP-48	Dual Smart Battery Selector and Charger; SMBus v1.1; Operates with or without µC	$3.70

† Primary Sort Column

Note:
1. Excludes DC/DC converter used for battery charging

BATTERY STACK MONITOR

Part Number	Description	Input Voltage (V)	Individual Cell Monitoring	Passive Cell Balancing	Monitor Method	Maximum Measurement Error	Thermistor Inputs	On-Chip Temperature Sensor	Open Wire Fault Detect	Interface	UV/OV Detect	Comments	Package	Price 1K Qty
LTC6802-1	**Multi-Cell Batter Stack Manager with UV/OV Detect. Stackable Architecture for High Voltage Systems**	**10 to 50 (60 Max)**	**yes**	**Int or Ext**	**12-Bit ΔΣ ADC**	**0.25%**	**2**	**yes**	**yes**	**Serial, Level-Shifted Daisy-Chain**	**yes**	**Daisy-Chained SPI Interface. Up to 12 Li-Ion Cells Per IC**	**SSOP-44**	**$9.95**
LTC6802-2	**Multi-Cell Batter Stack Manager with UV/OV Detect. Stackable Architecture for High Voltage Systems**	**10 to 50 (60 Max)**	**yes**	**Int or Ext**	**12-Bit ΔΣ ADC**	**0.25%**	**2**	**yes**	**yes**	**Serial, Individually Addressable**	**yes**	**Individually Addressable SPI interface. Up to 12 Li-Ion Cells Per IC**	**SSOP-44**	**$9.95**
LTC6801	**Standalone Multi-Cell Battery Stack Monitor. Stackable Architecture for High Voltage Systems**	**10 to 50 (60 Max)**	**yes**	**–**	**Comparator Plus Reference**	**0.5%**	**2**	**–**	**yes**	**n/a, Stand-Alone**	**yes**	**Pin-Strapped Configurations and Limits; Simplified, Stand-Alone Monitoring Only Version of the LTC6802. Up to 12 Li-Ion Cells Per IC**	**SSOP-36**	**C.F.**

Part Number	Basic Function	Package	Comments and Features	Price 1K Qty
PowerPath Control				
LTC4411	2.6A PowerPath Control IC with Internal P-FET	ThinSOT	Integrated Switch: Replaces Power Supply OR'ing Diodes with High Efficiency Solution	$1.60
LTC4412	5A PowerPath Controller for P-FETs	ThinSOT	Replaces Power Supply OR'ing Diodes; Higher Efficiency; Simplifies Load Sharing with Multiple Batteries; External MOSFET. HV Version Features V_{IN} Up to 36V and –40°C to 125°C Operation.	$1.30
LTC4412HV	Rugged 5A PowerPath Controller for P-FETs	ThinSOT	Rugged Version of the LTC4412, V_{IN} Up to 36V, Guaranteed Operatoin from –40°C to 125°C	$1.30
LTC4414	36V 75A PowerPath Controller for Large P-FETs	MSOP-8	Higher Gate Drive vs. LTC4412; Faster Gate Turn-On/Off Times	$1.85
LTC4413	Dual 2.6A PowerPath Control IC with Internal P-FETs	3×3 DFN-10	Integrated Switches.	$2.13
LTC1473L	Dual 6A PowerPath Controller for N-FETs	SSOP-16	PowerPath Management for Multiple DC Sources, 3.3V to 10V Input, All N-Channel MOSFETs for Low-Loss	$3.55
LTC4416	Dual 75A PowerPath Controller for P-FETs	MSOP-10	–40°C to 125°C, High Gate Drive for Large P-FETs, "-1" Version Has Fast-Off Feature	$2.45
Battery Monitor Building Blocks				
LT6700-1/2/3	Battery Monitoring Building Blocks	ThinSOT	Micropower Dual Comparators with 400mV Reference, 1.4V to 18V	$1.90
LTC1440 LTC1540	Battery Monitoring Building Blocks	MSOP-8, SO-8, PDIP-8, 3×3 DFN-8	Ultralow Power Comparator with Reference	$1.45
LTC1441 LTC1442 LTC1842 LTC1843	Battery Monitoring Building Blocks	DIP-8, SO-8	Dual Ultralow Power Comparators with Reference	$1.80
LTC1443 LTC1444 LTC1445	Battery Monitoring Building Blocks	DIP-16, SO-16	Quad Ultralow Power Comparators with Reference	$2.45
LTC1541 LTC1542	Battery Monitoring Building Blocks	MSOP-8, SO-8, 3×3 DFN-8	Combined Amplifier, Comparator and Reference	$1.50
Other				
LTC4110	Backup Battery System Manager	5×7 QFN-38	Battery Charge, Discharge, Back-Up, Calibration, Shutdown for Li, Ni, SLA, Supercaps; Flyback/Buck-Boost Topologies Can Charge $V_{BAT} > V_{IN}$	$9.25
LTC4150	Coulomb Counter	MSOP-10	Indicates Charge Quantity and Polarity; 2.7V to 8.5V Operation;	$1.50
LTC4410	USB Power Manager	ThinSOT	Allows Faster Charging from USB Port and Complies with USB Spec.	$1.20
LTC1729	Li-Ion Battery Charger Termination Controller	MSOP-8, SO-8	Operates with All LTC Switching Chargers; Built-In 3-Hour Time-Out Termination; C/10 Detection with Status Indicator	$2.70
LTC1998	Programmable Low Battery Voltage Detector	ThinSOT	Precision 1% Trip Voltage; Adjustable Trip Voltage and Hysteresis; 2.5µA Supply Current	$0.95
LTC1325	Microprocessor-Controlled Battery Mgmt System	SO-18	Fast Charge NiCd, NiMH, Li-Ion or Lead-Acid Batteries Under µP Control	$7.25

PowerPath™ AND IDEAL DIODE-OR CONTROLLERS

Part Number	Input Supply Range	Typical Current Capability	† Number of Channels	Supply for FET Gate Drive	Comments	Ext. Temp.	Package	Price 1K Qty
P-Channel FET								
LTC4411	2.6 to 5.5	≤2.6A	Single	n/a	Dual, One Integrated Switch, One External Switch	E	ThinSOT	$1.60
LTC4412	2.5 to 28	≤5A	Single	n/a	Dual, Two External Switches	E, I	ThinSOT	$1.30
LTC4412HV	2.5 to 36	≤5A	Single	n/a	–40°C to 125°C, High Input Voltage	I	ThinSOT	$1.70
LTC4414	3 to 36	≤5-75A(1)	Single	n/a	–40°C to 125°C, High Gate Drive for Large PFETs, Load Current up to 75A	E, I	MSOP-8	$1.85
LTC4413	2.5 to 5.5	≤2.6A	Dual	n/a	Dual, Two Internal Switches	E	3×3 DFN-10	$2.15
LTC4413-1/-2	2.5 to 5.5	≤2.6A	Dual	n/a	Dual, Two Internal Switches, Faster Version of LTC4413, "-2" Version Has 13V (max) OVP	E	3×3 DFN-10	$2.15
LTC2952	2.7 to 28	>5A(1)	Dual	n/a	PowerPath Controller with Pushbutton Interface	I	TSSOP-20, 4×4 QFN-20	$2.95
LTC4416	3 to 36	≤5-75A(1)	Dual	n/a	Dual, –40°C to 125°C, High Gate Drive for Large PFETs, "-1" Version Has Fast-Off Feature	E, I	MSOP-10	$2.45
N-Channel FET								
LTC4358	9 to 26.5	≤5A	Single	Charge Pump	Positive High Voltage Ideal Diode Controller with Internal MOSFET	I	TSSOP-16, 4×3 DFN-14	$2.10
LTC4350	1.5 to 12	>5A(1)	Single	Charge Pump	Single Hot Swappable Load Current Sharing Controller, Shared Bus for N+1 Redundant Supplies	I	SSOP-16	$4.25
LTC4352	0 to 18	>5A(1)	Single	Charge Pump	Single Fast Switch-Over, High Gate Drive	I	MSOP-12, 3×3 DFN-12	$2.50
LTC4357	9 to 80	>5A(1)	Single	n/a	Positive High Voltage Ideal Diode Controller	I, H	MSOP-8, 2×3 DFN-6	$1.70
LTC1473	4.75 to 30	≤5A	Dual	Onboard Boost Regulator	Dual, Battery and AC Wall Adapter Input Power Sources ("L" Version Has 3.3V to 10V V_{IN})	I	SSOP-16	$3.55
LTC4354	–4.5 to –80	>5A(1)	Dual	n/a	Negative Voltage Diode-OR Controller and Monitor	I	SO-8, 3×2 DFN-8	$1.95
LTC4355	9 to 80	>5A(1)	Dual	n/a	Positive High Voltage Ideal Diode-OR and Monitor	I	MSOP-16, SO-16, 4×3 DFN-14	$2.50
LTC1479	6 to 28	≤5A	Triple	Onboard Boost Regulator	Triple PowerPath Controller for Dual Battery Systems and Wall Adapter	I	SSOP-36	$7.05

† Primary Sort Column

Note:
1. Depends on external FET

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH SIDE SWITCHES AND MOSFET DRIVERS

Part Number	Function	V_{IN} Range (V)	V_{IN} Max (V)	Packages	Extended Temp Range	Comments	Price 1K Qty
Single							
LTC1693-5	P-Channel MOSFET Driver	4.5 to 13	14	MSOP-8	I	1.5A Peak Output Current	$1.70
LTC1693-3	N-Channel MOSFET Driver	4.5 to 13	14	MSOP-8	I	1.5A Peak Output Current; Selectable Output Polarity	$1.70
LTC4441	N-Channel MOSFET Driver	5	25	MSOP-10, SO-8	E, I	6A Peak Output Current; Adjustable Gate Drive 5V to 8V; Adjustable Blanking Ignores Ringing	$1.70
LTC1981	N-Channel MOSFET Driver	1.8 to 5.5	7.5	TSOT	E	Ultralow Power; Small	$1.20
LTC1154	N-Channel MOSFET Driver	4.5 to 18	22	SO-8, DIP-8	H	Short Circuit Protection	$1.80
LTC4440	High Speed, High Voltage High Side MOSFET Driver	6.5 to 80	100	MSOP-8E, TSOT	E	1.5A Pull-Down, 2.4A Pull-Up Drivers	$1.75
LTC4440-5	High Speed, High Voltage High Side MOSFET Driver	3.2 to 60	80	MSOP-8E, TSOT	E	4V to 15V MOSFET Gate Drive for 5V Logic Level FETs	$1.75
LT1910	Protected High Side MOSFET Driver	8 to 48	60	SO-8	E	–15V to 60V Transient Protected; Quad Driver: LT1161	$2.05
LTC1477	Protected High Side MOSFET Driver	2.7 to 6	7	SO-8, SO-16		Good for Subsystem Power Switches	$3.35
Dual							
LTC1693-1	Dual MOSFET Driver	4.5 to 13	14	SO-8	I	Two Noninverting Drivers; 1.5A Peak Output Current	$1.60
LTC1693-2	Dual MOSFET Driver	4.5 to 13	14	SO-8	I	One Inverting, One Noninverting Driver; 1.5A Peak Output Current	$1.60
LTC1982	Dual N-Channel MOSFET Driver	1.8 to 5.5	7.5	TSOT	E	Ultralow Power; Small	$1.50
LTC1255	Dual High Side MOSFET Driver	9 to 24	30	SO-8, DIP-8	I	Good for 24V Automotive Operation	$2.90
LTC1155	Dual High Side MOSFET Driver	4.5 to 18	22	SO-8, DIP-8	I	Dual Version of LTC1154	$2.90
LTC1478	Dual Protected High Side Switches	2.7 to 6	7	SO-8, SO-16		Good for Subsystem Power Switches	$5.30
LTC1623	Dual SMBus Switch Driver	2.7 to 6	5.5	MSOP-8, SO-8	I	Control Up to 16 Peripherals on Same Bus	$1.60
LTC1710	Dual SMBus Switches	2.7 to 6	5.5	MSOP-8, SO-8	I	Control Up to 6 Peripherals on Same Bus	$2.75
LTC1157	Dual 3.3V High Side Driver	2.7 to 7	7	SO-8, DIP-8		3.3V or 5V Operation, Low Cost	$2.45
Triple							
LTC1163	Triple High Side Driver	1.8 to 6	6	SO-8, DIP-8		Good for 2 Cell Battery Management	$2.70
LTC1165	Triple High Side Driver	1.8 to 6	6	SO-8, DIP-8		Operates from 2 Cells, P-Channel Replacement	$2.70
Quad							
LT1161	Quad High Side Driver	8 to 48	60	SO-20, DIP-20	I	Short Circuit Protection with Restart Timers; Single Driver: LT1910	$3.20
LTC1156	Quad High Side Driver	4.5 to 18	22	SO-16, DIP-8		Quad Version of LTC1154	$4.75
Synchronous MOSFET Drivers							
LTC4442	N-Channel Synchronous Driver	6 to 9	38	MSOP-8E	E, I	Synchronous Step-Down or Step-Up Applications. "-1" Has Higher Gate Driver UVLO	$1.25
LTC4444	High Voltage N-Channel Synchronous Driver	7.2 to 13.5	100	MSOP-8E	E, I	Synchronous Step-Down, Step-Up or Buck-Boost Applications	$1.69
LTC4444-5	High Voltage N-Channel Synchronous Driver	4.5 to 13.5	100	MSOP-8E	E, I	Synchronous Step-Down, Step-Up or Buck-Boost Applications	$1.69
LTC4446	High Voltage, High Side/Low Side MOSFET Driver	7.2 to 13.5	100	MSOP-8E	E, I	2-Transistor Forward Converter Applications, No Shoot-Thru Protection	$1.69

PCMCIA SWITCHES AND SWITCH DRIVERS

Part Number	Function	V_{IN} Min (V)	V_{IN} Max (V)	Packages	Comments	Price 1K Qty
LT1313	Dual V_{PP} Driver/Regulator	13	20	SO-16	Useful with Overwinding	$3.10
LT1314	V_{PP} + V_{CC} Switch Matrix	4.5	5.5	SO-14	Internal Drivers for V_{CC} MOSFETs	$2.30
LT1315	Dual V_{PP} + V_{CC} Switch Matrix	4.5	5.5	SSOP-24	Internal Drivers for V_{CC} MOSFETs	$3.30
LTC1470	5V/3.3V V_{CC} Switch Matrix	4.75/2.7	5.25/3.6	SO-8	Fully Integrated V_{CC} Switch with SafeSlot™ Protection	$2.45
LTC1471	Dual 5V/3.3V V_{PP} Matrix	4.75/2.7	5.25/3.6	SO-16	Fully Integrated V_{CC} Switch with SafeSlot Protection	$4.10
LTC1472	Single V_{PP} +V_{CC} Matrix	4.75/2.7	5.25/3.6	SO-16	Switch Matrix with SafeSlot Protection	$3.40

BRIDGE DRIVERS

Part Number	Function	V_{IN} Min (V)	V_{IN} Max (V)	Packages	Extended Temp Range	Comments	Price 1K Qty
LT1158	Half-Bridge Driver	4.5	36	SO-16, DIP-16	I	On-Chip Charge Pump, Drives N-Channel MOSFETs	$4.90
LT1160	Half-Bridge Driver	9	60	SO-14, DIP-14	I	Input UV Lockout, High Side Gate Drive UV Lockout	$2.80
LT1162	Dual Half-Bridge Driver	8	60	SO-24	I	Input UV Lockout, High Side Gate Drive UV Lockout	$4.80
LT1336	Half-Bridge Driver	9	60	SO-16	I	0% to 100% Duty Cycle Operation for Servo Motor Drive	$3.00
LTC1923	Thermoelectric Cooler; Full-Bridge Controller	2.7	5.5	5×5 QFN-32, SSOP-28	E	High Efficiency, Low Noise Topology	$18.17

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Output Power[1]	Input Voltage[1]	Output Voltage	Operating Frequency	Package	Synchronous	Extended Temp Range	Description	Price 1K Qty
Flyback Monolithics/Controllers									
LT1425	up to 6W	3V to 20V	1.23V and higher[1]	285kHz	SO-16	no	C, I	Monolithic No Opto Flyback	$2.90
LT1424-5/-9	up to 6W	3V to 20V	5V or 9V	285kHz	DIP-8, SO-8	no	C, I	Monolithic No Opto Flyback, Fixed 5V or 9V Output Voltage	$3.05
LT3573	**up to 7W**	**3V to 40V**	**1.23V and higher**	**40kHz to 1MHz**	**MSOP-16E**	**no**	**E, I**	**Monolithic No Opto and No 3rd Winding Flyback, Integrated 1.25A NPN Power Switch**	**$2.76**
LTC3803	up to 15W	36V to 75V	0.8V and higher[1]	200kHz	TSOP-6	no	E, I, H	Constant Frequency Current Mode Controller in TSOT, 8.7V V_{CC} Turn-On Voltage	$1.12
LTC3803-3	up to 15W	36V to 75V	0.8V and higher[1]	300kHz	TSOP-6	no	E, I	LTC3803 with 300kHz Switching Frequency	$1.12
LTC3803-5	up to 15W	36V to 75V	0.8V and higher[1]	200kHz	TSOP-6	no	E, I, H	LTC3803 with 4.8V V_{CC} Turn-On Voltage	$1.12
LT1737	5W to 25W	4.5V to 20V	1.25V and higher[1]	50kHz to 250kHz	SSOP-16, SO-16	no	C, I	Controller Used with or without Optocoupler	$2.90
LTC3873	up to 25W	8.4V to 75V	1.2V and higher[1]	200kHz	TSOT-8, 3×2 DFN-8	no	E	No R_{SENSE} Current Mode, Constant Frequency	$1.25
LTC3873-5	up to 25W	4V to 75V	1.2V and higher[1]	200kHz	TSOT-8, 3×2 DFN-8	no	E, I	No R_{SENSE} Current Mode, Constant Frequency	$1.25
LTC3805	5W to 25W	8.8V to 75V	0.8V and higher[1]	70kHz to 700kHz	MSOP-10, 3×3 DFN-10	no	E, H	Adjustable Frequency Current Mode Controller with Programmable Soft-Start, 8V V_{CC} Turn-On	$1.45
LTC3805-5	5W to 35W	4.5V to 75V	0.8V and Higher[1]	70kHz to 700kHz	MSOP-10, 3×3 DFN-10	no	E, I, H	LTC3805 with 4.5V V_{CC} Turn-On	$1.45
LTC1871	10W to 50W	2.5V to 36V	1.23V to 0.92% V_{IN}	50kHz to 1MHz	MSOP-10	no	E, I, H	Boost, Flyback, SEPIC and Inverter Controller	$2.65
LTC1871-1	10W to 50W	2.5V to 36V	1.23V to 0.92% V_{IN}	50kHz to 1MHz	MSOP-10	no	E, I	Boost, Flyback and SEPIC Controller, Burst Mode Operation at Lighter Load	$2.65
LTC1871-7	10W to 50W	6V to 36V	1.23V to 0.92% V_{IN}	50kHz to 1MHz	MSOP-10	no	E, I	Boost, Flyback, SEPIC and Inverter Controller	$2.65
LT1725	5W to 50W	16V to 75V	1.23V and higher[1]	50kHz to 250kHz	SSOP-16, SO-16	no	C,I	Controller Used with or without Optocoupler	$2.90
LTC3806	5W to 60W	10V to 75V	1.23V and higher[1]	250kHz	4×3 DFN-12	yes	E	Non-Isolated Controller, Very Good Cross-Regulation with Multiple Outputs	$3.40
LT1950	10W to 60W	3V to 25V	1.23V to 0.90% V_{IN}	100kHz to 500kHz	SSOP-16	no	E, I	Forward, Flyback and SEPIC Controller	$2.90
LT3837	5W to 80W	4.5V to 20V	1.23V and higher[1]	50kHz to 250kHz	TSSOP-16	yes	E	Controller Used with or without Optocoupler	$3.10
LT3825	5W to 80W	16V to 75V	1.23V and higher[1]	50kHz to 250kHz	TSSOP-16	yes	E	Controller Used with or without Optocoupler	$3.10
Primary Side Single Transistor Forward Controllers									
LT1952	40W to 300W	15.75V to 75V	1.23V to 52V	100kHz to 500kHz	SSOP-16	yes	E, I	Works with Secondary Side LTC3900 Driver	$3.30
LT1952-1	40W to 300W	8.13 to 75V	1.23V to 52V	100kHz to 500kHz	SSOP-16	yes	E, I	Works with Secondary Side LTC3900 Driver, "-1" Has Lower V_{IN}	$3.30
LTC3723	40W to 300W	10.7V to 75V	1.23V to 52V	Up to 1MHz	SSOP-16	yes	E	Single or 2-Switch Forward. Works with LTC3900 Driver, Low Start-Up Current. "-1" is Current Mode, "-2" is Voltage Mode	$4.55
LTC3725	40W to 300W	9 to 75V	1.23V to 52V	70kHz to 300kHz	MSOP-10	no	E, I	Single Switch Forward with Gate Driver. Works Stand-Alone or with LTC3706/LTC3726	$2.56
LT1950	40W to 300W	3V to 25V	1.23V to 0.90% V_{IN}	100kHz to 500kHz	SSOP-16	no	E, I	Use As a Forward, Flyback and SEPIC	$2.90
Primary Side Two Transistor Forward Controllers									
LT1681	40W to 300W	9V to 75V	1.25V to 52V	350kHz	SSOP-20	yes	E, I	2-Switch Synchronous Forward. Works with LTC1698 Secondary Side Driver	$5.00
LTC3705	40W to 300W	18V to 80V	8V to 52V	70kHz to 300kHz	TSSOP-16	yes	E, I	2-Switch Forward with Gate Driver. Works Stand-Alone or with LTC3706LTC3726	$2.63
LT3781	40W to 300W	16V to 75V	1.25V to 52V	350kHz	SSOP-20	yes	E, I	2-Switch Synchronous Forward. Works with LTC1698 Secondary Side Driver	$4.95
LTC3723	40W to 300W	10.7V to 75V	1.23V to 52V	Up to 1MHz	SSOP-16	yes	E	Single or 2-Switch Forward. Works with LTC3900 Driver, Low Start-Up Current. "-1" is Current Mode, "-2" is Voltage Mode	$4.55
Secondary Side Forward Controllers									
LTC3706	40W to 300W	9V to 75V	0.60V to 52V	70kHz to 500kHz	SSOP-24	yes	E, I	PolyPhase Capability, Works with Primary Side LTC3705 or LTC3725 Drivers	$3.88
LTC3726	40W to 300W	9V to 75V	0.60V to 52V	70kHz to 500kHz	SSOP-16	yes	E, I	Works with Primary Side LTC3705 or LTC3725 Smart Drivers	$3.19
Primary Side Smart Drivers for Secondary Side Forward Controllers									
LTC3705	2A[2]			70kHz to 500kHz	SSOP-16		E, I	Smart Driver for 2 Switch Forward. Works with LTC3726 or LTC3706 Secondary Controllers	$2.63
LTC3725	2A[2]			70kHz to 500kHz	MSOP-10		E, I	Smart Driver for Forward Converter. Works with LTC3726 or LTC3706 Secondary Controllers	$2.56
Primary Side Push-Pull, Half-Bridge and Full-Bridge Controllers									
LT3439	10W	2.8V to 20V	1.2V to 52V	20kHz to 250kHz	TSSOP-16	no	E	Monollthic Low Noise, Low Power Push-Pull	$3.50
LTC3721-1	100W to 750W	10.7V to 75V	1.2V to 52V	Up to 1MHz	4×4 QFN-16, SSOP-16	no	E	Push-Pull, Half-Bridge and Full-Bridge Topologies	$4.45
LTC3723-1	100W to 750W	10.7V to 75V	1.2V to 52V	Up to 1MHz	SSOP-16	yes	E	Push-Pull, Half-Bridge and Full-Bridge Current Mode Topologies	$4.55
LTC3723-2	100W to 750W	10.7V to 75V	1.2V to 52V	Up to 1MHz	SSOP-16	yes	E	Push-Pull, Half-Bridge and Full-Bridge Voltage Mode Topologies	$4.55
LTC3722-1	200W to 1kW	10.5V to 75V	5V to 24V	300kHz to 1MHz	SSOP-24	yes	E	Sync. Phase Shift, Current Mode PWM Controller, Full-Bridge, Zero Voltage Switching	$5.50
LTC3722-2	200W to 1kW	10.5V to 75V	5V to 24V	300kHz to 1MHz	SSOP-24	yes	E	Sync. Phase Shift, Current Mode PWM Controller, Full-Bridge, Zero Voltage Switching	$5.50

† Primary Sort Column

Notes:

1. In some cases V_{IN} is dependent on external components
2. MOSFET drive current

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

24V/48V DC/DC CONTROLLERS

FLYBACK AND PRIMARY SIDE CONVERTER

FET Drivers

Part Number	MOSFET Drive Current	Switching Frequency	Package	Temp Range	Description	Price 1K Qty
LTC3900	2A	100kHz to 500kHz	SO-8	E, I	Sync Rectifier Driver for Forward Controllers, Works with LT1952 and LTC3723	$2.50
LTC3901	2A	100kHz to 500kHz	SSOP-16	E	Sync Rectifier Driver for Push-Pull/Full-Bridge Controllers, Works with LTC3722 and LTC3723.	$2.60
LTC1698	2A	350kHz	SSOP-16, SO-16	E, I	Sync Rectifier Driver for Forward Controllers, Works with LT3781, LT1952 and LTC3723	$5.30
LTC4440	2.4A Pull-Up	Up to 500kHz	MSOP-8E, TSOT	E	High-Side Driver for Isolated Power Supplies	$1.75
LTC4440-5	1.1A Pull-Up	Up to 500kHz	MSOP-8E, TSOT	E	High-Side Logic Level (5V) FET Driver	$1.75
LTC1693-1	1.5A	Up to 1MHz	SO-8	C, I	Dual N-Channel FET Driver, One Inverting One Non-Inverting	$1.60
LTC1693-2	1.5A	Up to 1MHz	SO-8	C, I	Dual N-Channel Non-Inverting FET Driver	$1.60
LTC1693-3	1.5A	Up to 1MHz	MSOP-8	C, I	Single N-Channel FET Driver with Output Polarity Select	$1.70
LTC1693-5	1.5A	Up to 1MHz	MSOP-8	C, I	Single P-Channel FET Driver	$1.70

Multiple Topology Controllers/Accessory Parts

Part Number	Output Power[1]	Input Voltage Range	Description	Package	Temp Range	Output Voltage	Price 1K Qty
LTC3803	Up to 25W	9.2V to 75V	Flyback, Boost, SEPIC	TSOT-6	E, I, H	0.8V and Higher[1]	$1.12
LTC3803-3	Up to 25W	9.2V to 75V	Flyback, Boost, SEPIC	TSOT-6	E, I	0.8V and Higher[1]	$1.12
LTC3803-5	Up to 25W	5.7V to 75V	Flyback, Boost, SEPIC	TSOT-6	E, I, H	0.8V and Higher[1]	$1.12
LTC3873	Up to 35W	8.4V to 75V	Flyback, Boost, SEPIC	TSOT-8, 3×2 DFN-8	E	1.2V and Higher[1]	$1.25
LTC3873-5	Up to 35W	4V to 75V	Flyback, Boost, SEPIC	TSOT-8, 3×2 DFN-8	E, I	1.2V and Higher[1]	$1.25
LTC3805	Up to 35W	8.8V to 75V	Flyback, Boost, SEPIC	MSOP-10, 3×3 DFN-10	E, H	0.8V and Higher[1]	$1.45
LTC3805-5	Up to 35W	4.5V to 75V	Flyback, Boost, SEPIC	MSOP-10, 3×3 DFN-10	E, I, H	0.8V and Higher[1]	$1.45
LTC1871	Up to 100W	2.5V to 36V	Boost, Flyback, SEPIC, Inverter	MSOP-10	E, I, H	1.23V and Higher[1]	$2.65
LTC1871-7	Up to 100W	6V to 36V	Boost, Flyback, SEPIC, Inverter	MSOP-10	E, I	1.23V and Higher[1]	$2.65
LT1950	25W to 500W	3V to 25V	Forward, Flyback, Boost, SEPIC	SSOP-16	E, I	1.23V to $0.9V_{IN}$	$2.90
LT1952/-1	25W to 500W	8V to 75V	Forward, Boost, SEPIC, Inverter	SSOP-16	E, I	1.23V to $0.9V_{IN}$	$3.30
LT1619	Up to 100W	1.9V to 18V	Flyback, Boost, SEPIC, Inverter	MSOP-8, SO-8	E	1.24V and Higher[1]	$1.99
LT3710	–[1]	8V to 54V	Secondary Side Synchronous Post Regulator	TSSOP-16	E	0.8V to $0.85V_{IN}$	$3.95
LT3804	–[1]	8V to 54V	Secondary Side Dual Output Synchronous Post Regulator with Opto Driver	TSSOP-16	E	0.6V to $0.75V_{IN}$	$5.35

Notes:
1. Dependent on external components.

OPTOCOUPLER DRIVER

Part Number	Input Voltage (V)	Driver Current Limit (mA)	Accuracy (-40°C to 125°C)	Reference Voltage (V)	Amplifier Bandwidth (MHz)	Package	Comments	Price 1K Qty
LT4430	3 to 20	10	1.25%	0.6	9	ThinSOT	Prevents Output Overshoot on Start-Up, Short-Circuit Recovery	$1.75

PWM CONTROLLERS

Part Number	Min Operating Threshold (V)	Input Voltage Range (V)	Output Current Drive Capability (A)	Reference Voltage (V)	Frequency (kHz)	Supply Current (mA)	Other Features	Price 1K Qty
LT1241	9.6	8.2-25	1	5	to 500	7	Low Start-Up Current, to 500kHz	$1.95
LT1242	16	11-25	1	5	to 500	7	Improved 1842, to 100% Duty Cycle	$1.95
LT1243	8.4	8.2-25	1	5	to 500	7	Improved 1843, to 100% Duty Cycle	$1.95
LT1244	16	11-25	1	5	to 500	7	Improved 1844	$1.95
LT1245	8.4	8.2-25	1	5	to 500	7	Improved 1845	$1.95
LT1246	16	10-25	1	5	to 1000	13	Improved 1842, Built-In Blanking	$2.15
LT1247	8.4	7.6-25	1	5	to 1000	13	Improved 1843, Built-In Blanking	$2.10

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	Minimum Operating Threshold (V)	Input Voltage Range (V)	Output Current Drive Capability (A)	Reference Voltage (V)	Frequency (kHz)	Supply Current (mA)	Other Features	Price 1K Qty
LT1248	15.5	11.5 - 25	1.5	7.5	to 200	1.5	Power Factor Corrector in 16-Pin DIP, SO	$3.25
LT1249	15.5	11.5 - 25	1.5	7.5	to 200	1.5	Power Factor Corrector in 8-Pin DIP, SO	$3.25
LT1509	15.5	11.5 - 25	1.5	7.5	to 300	19	PFC/PWM Single Chip Solution, Soft-Start	$3.95

HOT SWAP/CIRCUIT BREAKERS

Part Number	† Circuit Breakers	†† Input Voltage Range (V)	Start-Up In-Rush[1] Current	Current Limit Methods: Active Limiting	Foldback	Fast Comparator	Outputs: Fault	Reset	PWRGD	Ext. Temp.	Package	Comments	Price 1K Qty
LTC4213	1	0 to 6				yes				I	3×2 DFN-8	No R_{sense} Electronic Circuit Breaker for 0V to 6V with a Separate Supply of 2.3V to 6V	$1.50
LTC4216	1	0 to 6	Active	yes			yes	yes		I	MSOP-10, 4×3 DFN-12	Ultalow Voltage Hot Swap Controller for 0V to 6V with a Separate Supply of 2.3V to 6V. Adjustable Current Limit, Soft-Start and Response Time for Overcurrent Protection	$1.85
LTC4210	1	2.7 to 16.5	Active	yes						I	TSOT-6	Active Current Limiting with Circuit Breaker. Auto-Retry (LTC4210-1/-3) or Latch-Off (LTC4210-2/-4) on Overcurrent Fault; "-3" and "-4" Feature 2.7V to 7V V_{IN}	$1.65
LTC4211	1	2.5 to 16.5	Active/SS			yes	yes	yes		I	SO-8, MSOP-8, MSOP-10	Active Current Limiting on In-Rush, Timed Circuit Breaker or Fast Response to Catastrophic Faults	$1.95
LTC4212	1	2.5 to 16.5	Active			yes				I	MSOP-10	PWRGD Input with Timer and Glitch Filter for Proper Power-Up and Monitoring of DC/DC Converters	$2.25
LTC4215/-1	1	2.9 to 16.5	Active/SS		yes		yes		yes	I	SSOP-16, 4×5 QFN-24	I^2C, Internal 8-Bit ADC, dI/dt Controlled Soft-Start, "-1" Features 3 GPIO Ports	$3.75
LTC1642A	1	2.97 to 16.5	Ramp	yes	yes		yes	yes		I	SSOP-16	Protected Against Surges to 33V, Output Driver for SCR	$3.50
LTC1422	1	2.55 to 13.2	Ramp					yes		I	SO-8	System Reset, Programmable Current Limit	$2.50
LTC4217	1	2.9 to 26.5	Active	yes	yes		yes		yes	I	TSSOP-20, 5×3 DFN-16	Integrated MOSFET and Sense Resistor, 5% Accurate Current Limit, Current/Temperature Outputs. "-12" Has Fixed 12V Output and Is Only in 5×3 DFN Package	$3.35
LTC4218	1	2.9 to 26.5	Ramp	yes			yes		yes	I	SSOP-16, 5×3 DFN-16	Wide Operating Voltage, 5% Accurate, 15mV Current Limit, Current Monitor Output	$2.65
LTC1153	1	4.5 to 18					yes				DIP-8, SO-8	Prog Trip Current to 20A, Prog Delay, Auto-Retry on Fault. Not Recommended for New Designs	$2.05
LT4254	1	10.8 to 36	Active	yes	yes				yes	I	SSOP-16	Positive High Voltage Hot Swap Controller with Open Circuit Detect Output	$1.95
LT4356	1	4 to 80	Active	yes			yes	yes	yes	H	SO-16, MSOP-10, 4×3 DFN-12	Surge Stopper! Overvoltage Protection Regulator with Overcurrent Protection, Reverse Input Protection and Inrush Current Limiting. Spare Amplifier for UV/OV Monitor or Linear Regulator. "-2" Keeps Aux Amp and V_{REF} Alive in Shutdown. "-3" Has Fault Latch-Off	$1.98
LT4256	1	10.8 to 80	Active	yes	yes				yes	I	SO-8	Positive High Voltage Hot Swap. Pin-Compatible with LT1641. Latch-Off (LT4256-1) or Auto-Retry (LT4256-2) Operation	$1.75
LT4256-3	1	10.8 to 80	Active	yes	yes				yes	I	SSOP-16	Positive High Voltage Hot Swap Controller with Open Circuit Detect Output. Higher Voltage Version of LT4254	$2.05
LTC4260	1	8.5 to 80	Active	yes	yes		yes			I	SO-24, SSOP-24, 5×5 QFN-32	Onboard 8-Bit ADC for Card Voltage and Current Monitoring, I^2C Compatible Interface. Optional Latch-Off or Auto-Retry	$5.50
LT1641	1	9 to 80	Active	yes	yes				yes	I	SO-8	For 48V DC/DC Modules, Latch-Off (LT1641-1) or Auto-Retry (LT1641-2)	$2.35
LTC4214	1	–6 to –16	Active	yes		yes			yes	I	MSOP-10	Multilevel Current Limiting, Controls -5V Supplies if Positive Supply is Available. Latch-Off (LTC4214-1) or Auto-Retry (LTC4214-2) on Overcurrent Fault	$2.35
LT1640/A	1	–10 to –80	Miller Cap						yes	I	SO-8	High Voltage Controller for -48V DC/DC Modules. A-Grade Has Improved Drain Pin Ruggedness	$1.90
LT4250	1	–18 to –80	Miller Cap	yes					yes	I	SO-8	Pin-Compatible with LT1640 But with Active Current Limiting	$2.35
LTC4251	1	–15 to –80 (floating)	Active/SS[2]	yes		yes				I	TSOT-6	Timed Circuit Breaker, Active Current Limiting and Fast Response to Catastrophic Faults. "-1" Version Has Wider Operating Range Between UV and OV Thresholds. "-2" Version Has OV Comparator Disabled.	$1.95
LTC4252/A	1	–15 to –80 (floating)	Active/SS	yes		yes			yes	I	MSOP-8, MSOP-10	Power Good Output, Timed Circuit Breaker, Active Current Limiting with Drain Accelerated Response and Fast Response to Catastrophic Faults. Latch-Off (LTC4252-1) or Auto-Retry (LTC4252-2). ±1% Undervoltage/Overvoltage Threshold Accuracy (LTC4252A)	$2.00
LTC4253/A	1	–15 to –80 (floating)	Active/SS	yes		yes			yes	I	SSOP-16	Similar to LTC4252 but Enables Three DC/DC Converters in Sequence. Asynchronous Reset Input. ±1% UV/OV Threshold Accuracy (LTC4253A)	$2.95
LTC4253A-ADJ	1	–15 to –80 (floating)	Active/SS	yes		yes			yes	I	SSOP-20, 4×4 QFN-20	Adjustable Threshold and Hysteresis on the UV/OV Detectors	$3.25
LTC4261	1	–12 to –100	Active	yes			yes		yes	I	SSOP-28, 4×5 QFN- 24	Onboard 10-Bit ADC for Card Voltage and Current Monitoring.I^2C Compatible Interface. Latch-Off Operation (LTC4261) or Auto-Retry (LTC4261-2)	$5.95
LTC1646	2	2.7 to 7	Active	yes	yes	yes	yes	yes	yes	I	SSOP-16	3.3V and 5V Supplies for CompactPCI, Local_PCI_RST Logic, 1V Precharge for Data Bus	$3.40

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HOT SWAP/CIRCUIT BREAKERS

Part Number	† Circuit Breakers	†† Input Voltage Range (V)	Start-Up In-Rush[1] Current	Current Limit Methods: Active Limiting	Current Limit Methods: Foldback	Current Limit Methods: Fast Comparator	Outputs: Fault	Outputs: Reset	Outputs: PWRGD	Ext. Temp.	Package	Comments	Price 1K Qty
LTC1647	2	2.7 to 16.5	Ramp				yes			I	SO-8, SSOP-16	Dual on Pins for Power Sequencing or Enabling Separate Loads from a Common Supply	$2.95
LTC4221	2	(1) 2.7 to 13.5, (1) 1 to 13.5	Active	yes		yes	yes		yes	I	SSOP-16	Dual Hot Swap Controller/Power Sequencer with Dual Speed and Dual Level Fault Protection, One Channel Operates from 1V	$3.10
LTC1645	2	(1) 1.18 to 13.2, (1) 2.3 to 13.2	Ramp					yes		I	SO-8, SO-14	Power Supply Sequencing, Reset, Fault Outputs and Spare Comparator in 14-Pin Version	$2.95
LT4220	2	(1) 2.7 to 16.5, (1) –2.7 to –16.5	Active	yes	yes		yes		yes	I	SSOP-16	Controls Positive and Negative Voltages. Selectable Tracking Mode	$3.50
LTC4223	2	(1) 10 to 14, (1) 2.7 to 6	Active	yes		yes	yes		yes	I	SSOP-16, 5×4 DFN-16	Dual Supply Hot Swap Controller for Advanced Mezzanine Cards and MicroTCA. Latch-Off Operation (LTC4223-1) or Auto-Retry (LTC4223-2)	$1.95
LTC1421	2	(2) 2.6 to 13.2, (1) –5 to –12	Ramp				yes	yes	yes	I	SO(W)-24, SSOP-24	Controls a Third Negative Supply without a Circuit Breaker. Reset and Power Good Outputs, Connection Sense Inputs	$4.90
LTC4222	2	2.9 to 29	Active/SS	yes	yes		yes		yes	I	SSOP-36, 5×5 QFN-32	Dual Hot Swap Controller with I²C, Internal 10-Bit ADC, dI/dt Controlled Soft-Start	$5.85
LTC4224	2	1 to 6	Active	yes			yes			I	MSOP-10, 3×2 DFN-10	Compact Dual Low Voltage Hot Swap Controller	$2.40
LTC4230	3	(1) 2.7 to 16.5, (1) 2.375 to 16.5, (1) 1.7 to 15.5	Active/SS			yes	yes	yes		I	SSOP-20	Controls Three Supplies; Active Current Limiting on In-Rush, Timed Circuit Breaker or Fast Response to Catastrophic Faults	$3.65
LTC4242	3	(2) 2.7 to 6, (1) 10.1 to 14.4	Active	yes		yes	yes		yes	I	SSOP-36, 5×7 QFN-38	Dual Slot Controller for PCI-Express, External N-Channel FETs for 3.3V and 12V, Internal 0.2Ω Switch for AUX 3.3V	$3.30
LTC4240	4	(1) 2.55 to 5, (1) 4.45 to 12, (1) 10.8 to 14, (1) –10.5 to –14	Active	yes	yes		yes		yes	I	SSOP-28	Controls 3.3V and 5V with N-Channel Fets, ±12V Supplies Controlled with Internal Switches. I²C Compatible Interface	$4.25
LTC4244	4	(1)2.25 to 13.5, (1) 4.25 to 13.5, (1) 10 to 14.4, (1) –10.25 to –14.4	Active	yes	yes		yes		yes	I	SSOP-20	Pin-Compatible with the LTC1644 But with Higher Absolute Maximum Ratings	$3.90
LTC1643A	4	(2) 2.75 to 12, (1) 10.8 to 13.2, (1) –10.8 to –13.2	Active	yes	yes		yes		yes	I	SSOP-16	Controls 3.3V and 5V with N-Channel Fets, ±12V Supplies Controlled with Internal Switches for PCI and CompactPCI	$4.25
LTC1644	4	(2) 2.75 to 13.2, (1) 10.8 to 13.2, (1) –10.8 to –14	Active	yes	yes		yes		yes	I	SSOP-20	3.3V, 5V and ±12V Supplies for CompactPCI, Local_PCI_RST# Logic, 1V Precharge for Data Bus	$3.60
LTC4245	4	(1) 4.25 to 10, (1) 2.7 to 10 (1) 10.2 to 20, (1) –10.2 to –20	Active/SS	yes	yes		yes		yes	I	SSOP-36, 5×7 QFN-38	I²C, Internal 8-Bit ADC, di/dt Controlled Soft-Start	$5.95
LTC4241	5	(1) 2.75 to 12, (1) 2.85 to 7, (1) 4.15 to 12, (1) 10.8 to 14, (1) –10.8 to –14	Active	yes	yes		yes		yes	I	SSOP-20	Controls 3.3V, 5V, and 3.3V Aux with N-Channel FETS, ±12V Supplies Controlled with Internal Switches. Active High ON Pin for PCI	$1.75

† Primary Sort Column
†† Secondary Sort Column

Notes:
1. Active = Active currrent limit for in-rush current set by gate dv/dt; SS = softstart limits dI/dt; Miller Cap = in-rush current set by drain dV/dt
2. SS not on “plain” version

HIGH VOLTAGE HOT SWAP/CIRCUIT BREAKERS

Part Number	† Input Voltage Range (V)	Start-Up In-Rush Current	Current Limit Methods: Active Limiting	Current Limit Methods: Fast Comparator	UV	OV	Outputs: Fault	Outputs: Reset	Outputs: PWRGD	Ext. Temp.	Package	Comments	Price 1K Qty
Negative Input													
LTC4261/-2	–12 to –100	Active	yes	yes	yes	yes	yes		yes	I	SSOP-28, 4×5 QFN-24	Onboard 10-Bit ADC for Card Voltage and Current Monitoring, I²C Interface. Default Latch-Off (LTC4261) or Auto-Retry (LTC4261-2)	$5.95
LT1640A	–10 to –80	Miller Cap			yes	yes		yes		I	SO-8	Improved Drain Pin Ruggedness	$1.90
LT1640	–10 to –80	Miller Cap			yes	yes		yes		I	SO-8	PWRGD# (L) or PWRGD (H) Output	$1.90
LT4250	–18 to –80	Miller Cap	yes		yes	yes		yes		I	SO-8	LT1640 Pin-Compatible with Active Current Limiting	$2.35
LTC4251	–15 to –80 (floating)	Active	yes	yes	Combined					I	TSOT-6	Three-Level Circuit Breaker, UV/OV Combined on Same Pin	$1.95
LTC4251-1	–15 to –80 (floating)	Active/SS	yes	yes	Combined					I	TSOT-6	Wider Operating Range Between UV and OV Thresholds	$1.95
LTC4251-2	–15 to –80 (floating)	Active/SS	yes	yes	yes					I	TSOT-6	OV Comparator Disabled	$1.95
LTC4252-1/ LTC4252A-1	–15 to –80 (floating)	Active/SS	yes	yes	yes	yes		yes		I	MSOP-8, MSOP-10	Soft-Start (SS) Ramps Inrush Current During Start-Up. Drain Accelerated Response. Latch-Off Operation. ±1% Undervoltage/Overvoltage Threshold Accuracy (LTC4252A-1) for Advanced TCA Applications	$2.00

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH VOLTAGE HOT SWAP/CIRCUIT BREAKERS

Part Number	† Input Voltage Range (V)	Start-Up In-Rush Current	Current Limit Methods: Active Limiting	Current Limit Methods: Fast Comparator	UV	OV	Outputs: Fault	Outputs: Reset	Outputs: PWRGD	Ext. Temp.	Package	Comments	Price 1K Qty
LTC4252-2/ LTC4252A-2	–15 to –80 (floating)	Active/SS	yes	yes	yes	yes		yes		I	MSOP-8, MSOP-10	Soft-Start (SS) Ramps Inrush Current During Start-Up. Drain Accelerated Response. Auto-Retry Operation. ±1% Undervoltage/Overvoltage Threshold Accuracy (LTC4252a-2) for AdvancedTCA Applications	$2.00
LTC4253/ LTC4253A	–15 to –80 (floating)	Active/SS	yes		yes	yes		yes	yes	I	SSOP-16	Similar to LTC4252 and Enables Three DC/DC Converters in Sequence. Asynchronous Reset Input. ±1% UV/OV Threshold Accuracy (LTC4253A)	$2.95
LTC4253A-ADJ	–15 to –80 (floating)	Active/SS	yes		yes	yes		yes	yes	I	SSOP-20, 4×4 QFN-20	Adjustable Threshold and Hysteresis on the UV/OV Detectors	$3.25
Positive Input													
LT4254	10.8 to 36	Active	yes		yes	yes		yes		I	SSOP-16	Positive High Voltage Hot Swap Controller with Open Circuit Detect Output	$1.95
LT1641	9 to 80	Active	yes		yes			yes		I	SO-8	For +48V DC/DC Modules, Latch-Off (LT1641-1) or Auto-Retry (LT1641-2)	$2.35
LT4256	10.8 to 80	Active	yes		yes			yes		I	SO-8	Positive High Voltage Hot Swap. Pin-Compatible with LT1641. Latch-Off/ Auto-Retry Operation	$1.75
LT4256-3	10.8 to 80	Active	yes		yes	yes		yes		I	SSOP-16	Positive High Voltage Hot Swap Controller with Open Circuit Detect Output. Higher Voltage Version of LT4254	$2.05
LTC4260	8.5 to 80	Active	yes		yes	yes	yes			I	SO-24, SSOP-24, 5×5 QFN-32	Onboard 8-bit ADC for Card Voltage and Current Monitoring, I²C Compatible Interface. Optional Latch-Off or Auto-Retry	$5.95
LT4356	4 to 80	Active	yes				yes	yes		H	SO-16, MSOP-10, 4×3 DFN-12	Surge Stopper! Overvoltage Protection Regulator with Overcurrent Protection, Reverse Input Protection and Inrush Current Limiting. Spare Amplifier for UV/OV Monitor or Linear Regulator. "-2" Keeps Aux Amp and V_{REF} Alive in Shutdown. "-3" Has Fault Latch-Off	$1.98

† Primary Sort Column

LOW VOLTAGE HOT SWAP/CIRCUIT BREAKERS

Part Number	† Circuit Breakers	Input Voltage Range (V)	Start-Up In-Rush Current	Current Limit Methods: Active Limiting	Current Limit Methods: Foldback	Current Limit Methods: Fast Comparator	Outputs: Fault	Outputs: Reset	Outputs: PWRGD	Supply Sequencing	Ext. Temp.	Package	Comments	Price 1K Qty
LTC4213	1	0 to 6				yes					I	3×2 DFN-8	No R_{SENSE} Electronic Circuit Breaker for 0V to 6V Supply with a Separate Supply of 2.3V to 6V	$1.50
LTC4216	1	0 to 6	Active	yes	yes		yes	yes			I	MSOP-10, 4×3 DFN-12	Ultralow Voltage Hot Swap Controller for 0V to 6V Supply with a Separate Supply of 2.3V to 6V. Adjustable Current Limit, Soft-Start and Response Time for Overcurrent Protection	$1.85
LTC4210-1/-2	1	2.7 to 16.5	Active	yes			yes				I	TSOT-6	Active Current Limiting with a Circuit Breaker. Automatic Retry (LTC4210-1) or Latch-Off (LTC4210-2) on an Overcurrent Fault	$1.65
LTC4210-3/-4	1	2.7 to 7	Active	yes			yes				I	TSOT-6	An Extension of LTC4210-1/-2, But for Supplies Ranging From 2.7V to 7V	$1.65
LTC4211	1	2.5 to 16.5	Active			yes	yes	yes			I	SO-8, MSOP-8, MSOP-10	No Gate Capacitor Required	$1.95
LTC4212	1	2.5 to 16.5	Active			yes	yes				I	MSOP-10	Power Good Input with Timer and Glitch Filter for Assuring Proper Power-Up and Monitoring of DC/DC Converters	$2.25
LTC4215/-1	1	2.9 to 16.5	Active/SS		yes		yes		yes		I	SSOP-16, 4×5 QFN-24	I²C, Internal 8-Bit ADC, dI/dt Controlled Soft-Start, "-1" Features 3GPIO Ports	$3.75
LTC1642A	1	2.97 to 16.5	Ramp	yes	yes		yes	yes			I	SSOP-16	Protected up to 33V, Output Driver for SCR, Spare Comparator	$3.50
LTC1422	1	2.55 to 13.2	Ramp					yes			I	SO-8	System Reset, Programmable Current Limit	$2.50
LTC4214-1/-2	1	–6 to –16	Active	yes	yes		yes		yes		I	MSOP-10	Multi Level Current Limiting, Controls –5V Supplies if Positive Supply is Available. Latch Off (LTC4214-1) and Auto-Retry (LTC4214-2) on Overcurrent Fault	$2.35
LTC4217	1	2.9 to 26.5	Active	yes	yes		yes		yes		I	TSSOP-20, 5×3 DFN-16	Integrated MOSFET and Sense Resistor, 5% Accurate Current Limit, Current/Temperature Outputs. "-12" Has Fixed 12V Output and Is Only in 5×3 DFN Package	$3.35
LTC4218	1	2.9 to 26.5	Ramp	yes			yes		yes		I	SSOP-16, 5×3 DFN-16	Wide Operating Voltage, 5% Accurate, 15mV Current Limit, Current Monitor Output	$2.65
LT4220	2	(1) 2.7 to 16.5 (1) –2.7 to –16.5	Active	yes	yes		yes		yes	Together	I	SSOP-16	Controls Positive and Negative Voltages. Selectable Tracking Mode	$4.25
LTC4221	2	(1) 2.7 to 13.5 (1) 1 to 13.5	Active	yes		yes	yes		yes	Together or Sequenced	I	SSOP-16	Dual Hot Swap Controller/Power Sequencer with Dual Speed and Dual Level Fault Protection, One Channel Operates from 1V	$3.10
LTC4223	2	(1) 2.7 to 6 (1) 10 to 14	Active	yes		yes	yes		yes	Together or Sequenced	I	SSOP-16, 5×4 DFN-16	Dual Supply Hot Swap Controller for Advanced Mezzanine Cards. Latch Off (LTC4223-1) or Auto-Retry (LTC4223-2) On Overcurrent Fault.	$1.95
LTC1645	2	(1) 1.18 to 13.2 (1) 2.3 to 13.2	Ramp					yes		Together or Sequenced	I	SO-8, SO-14	Dual-Level ON Pin for Power Supply Sequencing, Spare Comparator in 14-Pin Version	$2.95
LTC1646	2	2.7 to 7	Active	yes	yes		yes		yes	Together	I	SSOP-16	For CompactPCI, includes LOCAL_PCI_RST Logic, 1V Precharge for Data Bus	$3.40
LTC1647-1	2	2.7 to 16.5	Ramp							Together or Sequenced	I	SO-8	Dual ON Pins for Power Sequencing or Enabling Separate Loads from a Common Supply	$2.95
LTC1647-2	2	2.7 to 16.5	Ramp				yes			Together or Sequenced	I	SO-8	Dual ON/FAULT Pins for Power Sequencing or Enabling Separate Loads from a Common Supply	$2.95
LTC1647-3	2	2.7 to 16.5	Ramp				yes			Together or Sequenced	I	SSOP-16	Dual ON Pins, Dual/FAULT Pins for Power Sequencing or Enabling Separate Loads from a Common Supply	$3.20

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

LOW VOLTAGE HOT SWAP/CIRCUIT BREAKERS

Part Number	† Circuit Breakers	Input Voltage Range (V)	Start-Up In-Rush Current	Current Limit Methods: Active Limiting	Current Limit Methods: Foldback	Current Limit Methods: Fast Comparator	Outputs: Fault	Outputs: Reset	Outputs: PWRGD	Supply Sequencing	Ext. Temp.	Package	Comments	Price 1K Qty
LTC1421	2	(2) 2.6 to 13.2 (1) –5 to –12	Ramp				yes	yes	yes	Together	I	SO(W)-24, SSOP-24	Controls a Third Negative Supply without a Circuit Breaker. Reset and Power Good Outputs, Connection Sense Inputs	$4.90
LTC4222	2	2.9 to 29	Active/SS	yes	yes		yes		yes		I	SSOP-36, 5×5 QFN-32	Dual Hot Swap Controller with I²C, Internal 10-Bit ADC, dI/dt Controlled Soft-Start	$5.85
LTC4224	2	1 to 6	Active	yes			yes				I	MSOP-10, 3×2 DFN-10	Compact Dual Low Voltage Hot Swap Controller	$2.40
LTC4230	3	(1) 2.7 to 16.5 (1) 2.375 to 16.5 (1) 1.7 to 15.5	Active/SS			yes	yes	yes		Together	I	SSOP-20	Controls Three Supplies; Active Current Limiting on Inrush, Timed Circuit Breaker or Fast Response to Catastrophic Faults	$3.65
LTC4240	4	(1) 2.55 to 5, (1)4.45 to 12, (1)10.8 to 14, (1) –10.5 to –14	Active	yes	yes		yes		yes	Together	I	SSOP-28	Controls 3.3V, 5V with N-Channel FETs, ±12V Supplies Controlled with Internal Switches. I²C Compatible Interface	$4.25
LTC4244	4	(1) 2.25 to 13.5, (1)4.25 to 13.5, (1)10 to 14.4, (1) –10.25 to –14.4	Active	yes	yes		yes		yes	Together	I	SSOP-20	Pin-Compatible with LTC1644 But with Higher Absolute Maximum Ratings	$3.90
LTC4245	4	(1) 4.25 to 10 (1) 2.7 to 10 (1) 10.2 to 20 (1) –10.2 to –20	Active/SS	yes	yes		yes		yes		I	SSOP-36, 5×7 QFN-38	I²C, Internal 8-bit ADC, dI/dt Controlled Soft-Start	$5.95
LTC1643A	4	(2) 2.75 to 12 (1) 10.8 to 13.2 (1) –10.8 to –13.2	Active	yes	yes		yes		yes	Together	I	SSOP-16	LTC1643AH for PCI and LTC1643AL/LTC1643AL-1 CompactPCI	$4.25
LTC1644	4	(2) 2.75 to 13.2 (1) 10.8 to 13.2 (1) –10.8 to –14	Active	yes	yes		yes		yes	Together	I	SSOP-20	For CompactPCI, Includes LOCAL_PCI_RST Logic, 1V Precharge for Data Bus	$3.60
LTC4241	5	(1) 2.75 to 12 (1) 2.85 to 7 (1) 4.15 to 12 (1) 10.8 to 14 (1) –10.8 to –14	Active	yes	yes		yes		yes	Together	I	SSOP-20	Controls 3.3V, 5V, and Independent 3.3V Aux with N-Channel FETs, ±12V Supplies Controlled with Internal Switches. Active High ON Pin for PCI	$1.75

† Primary Sort Column

PCI HOT SWAP

Part Number	PCI / cPCI Supplies: 3.3V	5V	12V	–12V	† Internal Switch: Current Limit @ 12V (mA)	Current Limit @ –12V (mA)	Outputs: PWRGD	Local PCI Reset	Fault	Precharge	Ext. Temp.	Package	Comments	Price 1K Qty
LTC1644	yes(1)	yes(1)	yes	yes(1)	840	320	yes	yes	yes	yes	I	SSOP-20	Active Current Limiting with Foldback, Active Low ON Pin for CompactPCI	$3.60
LTC1643A	yes	yes	yes	yes	850	450	yes		yes		I	SSOP-16	Active Current Limiting with Foldback, "L" Version Has Active Low ON Pin for CompactPCI; "H" Has Active High ON Pin for PCI. See LTC4244 For New Designs	$4.25
LTC1643AL-1	yes	yes	yes		850	450	yes		yes		I	SSOP-16	Active Current Limiting with Foldback, Does Not Require –12V Supply	$4.25
LTC4241	yes	yes	yes	yes	850	450	yes		yes		I	SSOP-20	Controls 3.3V, 5V, and Independent 3.3V Aux with N-Channel FETs, ±12V Supplies Controlled with Internal Switches. Active High ON Pin for PCI	$1.75
LTC4244	yes	yes	yes	yes	850	610	yes	yes	yes	yes	I	SSOP-20	Pin-Compatible with the LTC1644 but with Higher Absolute Maximum Ratings	$3.90
LTC4240	yes	yes	yes	yes	1250	500	yes	yes	yes	yes	I	SSOP-28	Active Current Limiting with Foldback. I²C Interface and Active Low ON Pin for CompactPCI	$4.25
LTC4242	×2		×2		(ext. FET and R_{SENSE})	n/a	yes		yes		I	SSOP-36, 5×7 QFN-38	Dual Slot Controller for PCI-Express, External N-Channel FETs for 3.3V and 12V, Internal 0.2Ω Switch for AUX 3.3V	$3.30
LTC4245	yes	yes	yes	yes	(ext. FET and R_{SENSE})	(ext. FET and R_{SENSE})	yes	yes	yes	yes	I	SSOP-36, 5×7 QFN-38	I²C, Internal 8-Bit ADC, dI/dt Controlled Soft-Start, Configurable for CPCI or PCI-Express	$5.95
LTC1646	yes(1)	yes(1)			n/a	n/a	yes	yes	yes	yes	I	SSOP-16	Active Current Limiting with Foldback, Can Operate with Either 3.3V or 5V-Only, Does Not Require ±12V Supplies	$3.40

† Primary Sort Column

Note:
1. Optional supply, see data sheet for details

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	PSE/PD	Channels	Description	IEEE-Compliant Detection	IEEE-Compliant Classification	IEEE-Compliant Disconnection	Ext. Temp	Package	Comments	Price 1K Qty
LTC4257	PD	1	IEEE 802.3af PD PoE Interface Controller	yes[1]	yes (Programmable)	n/a	I	SO-8, 3×3 DFN-8	100V, 400mA Internal FET	$1.65
LTC4257-1	PD	1	IEEE 802.3af PD PoE Interface Controller with Dual Current Limit	yes[1]	yes (Programmable)	n/a	I	SO-8, 3×3 DFN-8	100V, 400mA Internal FET, Dual Current Limit For Legacy Applications	$1.75
LTC4264	PD	1	35W PoE PD Interface Controller with 750mA Current Limit	yes[1]	yes (Programmable)	n/a	I	4×3 DFN-12	See LTC4265 For New Designs	$1.80
LTC4265	**PD**	**1**	**IEEE 802.3at PD PoE+ Interface Controller**	**yes[1]**	**yes (Programmable)**	**n/a**	**I**	**4×3 DFN-12**	**For High Power (Up to 26W) Applications, Onboard 100V/100mA Power MOSFET**	**C.F.**
LTC4268-1	PD	1	35W High Power PD with Synchronous NoOpto Flyback Controller	yes[1]	yes (Programmable)	n/a	I	7×4 DFN-32	See LTC4269-1 For New Designs	$2.40
LTC4267/-1/-3	PD	1	IEEE 802.3af PD PoE Interface Controller with Integrated 200kHz/300kHz Switching Regulator	yes[1]	yes (Programmable)	n/a	I	SSOP-16, 3×5 DFN-16	Onboard Switching Regulator, 100V, 400mA Internal FET, Dual Current Limit for Legacy Applications. "Plain" and "-1" Have 200kHz Switcher. "-1" and "-3" Have Increased 450mA Current Limit. "-3" Has 300kHz Switcher	$2.10
LTC4269-1/-2	**PD**	**1**	**IEEE 802.3at PD PoE+ Interface Controller with Integrated Flyback/Forward Controller**	**yes[1]**	**yes (Programmable)**	**n/a**	**I**	**7×4 DFN-32**	**Up to 30W, Onboard Switching Reg, Dual Current Limit for Legacy Applications, 100V Internal FET. "-1" Has Adj. 50kHz to 250kHz Flyback Converter; "-2" Has Adj. 100kHz to 500kHz Forward Converter**	**C.F.**
LTC4263/-1	PSE	1	Single PoE Controller with AC and DC Disconnect	yes	yes	yes (DC- or AC-current)	I	SO-14, 4×3 DFN-14	Fully Autonomous, Internal MOSFET with Thermal Protection, Internal R_{SENSE} Resistor. "-1" Has Increased Output Power and DFN-14 Only Package	$2.95
LTC4258	PSE	4	Quad IEEE 802.3af PoE Controller with Integrated Detection	yes	yes	yes (DC-current)		SSOP-36	Same as LTC4259 but with DC Disconnect Only	$6.30
LTC4259A-1	PSE	4	Quad IEEE 802.3af PoE Controller with AC Disconnect	yes	yes	yes (DC- or AC-current)	I	SSOP-36	Fully Autonomous, Semi-Auto and Manual Modes. Programmable PD Disconnect Using AC or DC Sensing. Recommend for New Designs	$6.95
LTC4266	**PSE**	**4**	**Quad IEEE 802.3at PoE+ Controller**	**yes**	**yes**	**yes (DC-current)**	**I**	**SSOP-36, 5×7 DFN-38**	**Fully Autonomous, Semi-Auto and Manual Modes. Programmable PD Disconnect Using DC Sensing, 4 Point PD Detection, High Capacitance Legacy Device Detection**	**C.F.**

Note:
1. Internal 25kΩ resistor

SYSTEM MONITORING AND CONTROL

µP SUPERVISORY

Part Number	† Number of Voltage Monitors	Fixed Voltage Range, (V)	Adjustable Inputs	Minimum Adj Threshold, (V)	OV Monitor	Negative Monitor	Reset Threshold Tolerance	Minimum Reset Level (V)	Reset Pulse Width	Supply Current (µA)	Watchdog Timer	Power Fail Warning	Comments	Ext. Temp.	Package	Price 1K Qty
LTC2910	8		8	0.5	yes	yes		0.5	Adj.	70			RST, RST# Outputs, Optional Shunt Regulator for High Supply Voltage Operation	I	SSOP-16, 5×3 DFN-16	$3.20
LTC2908-A1	6	5, 3.3, 2.5, 1.8	2	0.5				0.5	200ms	26				I	TSOT-8, 3×2 DFN-8	$2.50
LTC2908-B1	6	3.3, 2.5, 1.8, 1.5	2	0.5			5%	0.5	200ms	26				I	TSOT-8, 3×2 DFN-8	$2.50
LTC2908-C1	6	2.5	5	0.5			5%	0.5	200ms	26				I	TSOT-8, 3×2 DFN-8	$2.50
LTC2930	6	5 to 1.5	up to 4	0.5		yes	5%	1	Adj	52			16 Selectable Thresholds, Adj. Reset Timer, Manual Reset	I, H	3×3 DFN-12	$2.56
LTC2931	6	5 to 1.5		0.5		yes	5%	1	Adj	52	Adj		16 Selectable Thresholds, Adj. Reset Timer, Watchdog Timer, Separate Voltage Monitor Outputs	I, H	TSSOP-20	$2.80
LTC2932	6	5 to 1.5	up to 4	0.5		yes	5%, 7.5%, 10%, 12.5%	1	Adj	52			16 Selectable Thresholds, Adj. Reset Timer and Threshold Tolerance, Separate Voltage Monitor Outputs	I, H	TSSOP-20	$2.80
LTC2900	4	5 to 1.5	up to 2	0.5		yes	5%	1	Adj	43			Single Pin Programs Threshold Combination. Open Drain Or Push-Pull Reset Output. Pushbutton Input	I	MSOP-10, 3×3 DFN-10	$1.85
LTC2901	4	5 to 1.5	up to 2	0.5		yes	5%, 10%	1	Adj	43	Adj		Single Pin Programs Threshold Combination. Separate Voltage Monitor Outputs, Open Drain or Push-Pull Reset. Selectable 5% or 10% Tolerances (LTC2901-3/-4)	I	SSOP-16	$2.35

† Primary Sort Column

SYSTEM MONITORING AND CONTROL

µP SUPERVISORY

Part Number	† Number of Voltage Monitors	Fixed Voltage Range, (V)	Adjustable Inputs	Minimum Adj Threshold, (V)	OV Monitor	Negative Monitor	Reset Threshold Tolerance	Minimum Reset Level (V)	Reset Pulse Width	Supply Current (µA)	Watchdog Timer	Power Fail Warning	Comments	Ext. Temp.	Package	Price 1K Qty
LTC2902[1]	4	5 to 1.5	up to 2	0.5		yes	5%, 7.5%, 10%, 12.5%	1	Adj	43			Single Pin Programs Threshold Combination. Separate Voltage Monitor Outputs, Open Drain ("-1") or Push-Pull ("-2") Reset Output. Selectable 5%, 7.5%, 10% or 12.5% Tolerances	I	SSOP-16	$2.35
LTC2903-A1	4	3, 2.5, 1.8	1	0.5			10%	0.5	200ms	20				I	TSOT-6	$1.65
LTC2903-B1	4	5, 3.3, 2.5, 1.8					10%	0.5	200ms	20				I	TSOT-6	$1.65
LTC2903-C1	4	5, 3.3, 1.8, –5.2				yes	10%	0.5	200ms	20				I	TSOT-6	$1.75
LTC2903-D1	4	3.3	3	0.5			5%	0.5	200ms	20				I	TSOT-6	$1.75
LTC2903-E1	4	5	3	0.5			5%	0.5	200ms	20				I	TSOT-6	$1.75
LTC2914	4		4	0.5	yes	yes				70			Quad UV/OV Positive/Negative Monitor, UV/OV Outputs, Optional Shunt Regulator For High Supply Voltage Operation	I	SSOP-16, 5×3 DFN-16	$3.75
LTC1326	3	5, 3.3	1	1			5%	1	200ms	40			Pushbutton input, RESET and Soft RESET Outputs	I	MSOP-8, SO-8	$2.20
LTC1326-2.5	3	3.3, 2.5	1	1			5%	1	200ms	40			Pushbutton input, RESET and Soft RESET Outputs	I	MSOP-8, SO-8	$2.20
LTC1536	3	5, 3.3	1	1			5%	1	200ms	40			Pushbutton input, RESET and Soft RESET Outputs, Added Tests for PCI Conformity	I	MSOP-8, SO-8	$2.65
LTC1726-2.5	3	3.3, 2.5	1	1			5%	1	Adj	20	Adj			E, I	MSOP-8, SO-8	$1.75
LTC1726-5	3	5, 3.3	1	1			5%	1	Adj	20	Adj			E, I	MSOP-8, SO-8	$1.75
LTC1727-2.5	3	3.3, 2.5	1	1			5%	1	200ms	15			Separate Voltage Monitor Outputs	E, I	MSOP-8, SO-8	$1.75
LTC1727-5	3	5, 3.3	1	1			5%	1	200ms	15			Separate Voltage Monitor Outputs	E, I	MSOP-8, SO-8	$1.75
LTC1728-1.8	3	3, 1.8	1	1			5%	1	200ms	15				E	TSOT-5	$1.35
LTC1728-2.5	3	3.3, 2.5	1	1			5%	1	200ms	15				E	TSOT-5	$1.35
LTC1728-3.3	3	3.3, 1.8	1	1			5%	1	200ms	15				E	TSOT-5	$1.35
LTC1728-5	3	5, 3.3	1	1			5%	1	200ms	15				E, H	TSOT-5	$1.35
LTC1985-1.8	3	3, 1.8	1	1			5%	1	200ms	15			Push-Pull Active Low RESET	E	TSOT-5	$1.35
LTC2919	3	2.5/3.3/5	2	0.5	yes	yes	1.5%	0.5	200ms	50			Selectable Polarity For Negative and OV Monitoring, Shunt Regulator, ADJ Comparator Outputs	I, H	MSOP-10, 3×2 DFN 10	$1.75
LTC2909-5	3	5	2	0.5	yes	yes		0.5	200ms	50			Selectable Polarity for Negative and OV Monitoring, Shunt Regulated for High Supply Voltage Operation	I	TSOT-8, 3×2 DFN-8	$1.55
LTC2909-3.3	3	3.3	2	0.5	yes	yes		0.5	200ms	50			Selectable Polarity for Negative and Ov Monitoring, Shunt Regulated for High Supply Voltage Operation	I	TSOT-8, 3×2 DFN-8	$1.55
LTC2909-2.5	3	2.5	2	0.5	yes	yes		0.5	200ms	50			Selectable Polarity for Negative and Ov Monitoring, Shunt Regulated for High Supply Voltage Operation	I	TSOT-8, 3×2 DFN-8	$1.55
LTC2913	2		2	0.5	yes					60			Dual UV/OV Monitor, UV/OV Outputs, Shunt Regulated for High Voltage Operation	I	MSOP-10, 3×3 DFN-10	$2.30
LTC1696	2		2	0.88	yes			0.88		1.1mA			±2% OV Threshold Accuracy. Gate Drive For SCR Crowbar or External N-Channel FET	E	TSOT-6	$1.70
LTC2904	2	5 to 1					5%, 7.5%, 10%	1	200ms	65			Pin Selectable Thresholds and Tolerances of 5%, 7.5%, 10%.	I	TSOT-8, 3×2 DFN-8	$1.35
LTC2905	2	5 to 1					5%, 7.5%, 10%	1	Adj	65			Pin Selectable Thresholds and Tolerances of 5%, 7.5%, 10%.	I	TSOT-8, 3×2 DFN-8	$1.35
LTC2906	2	5, 3.3, 2.5	1	0.5			5%, 7.5%, 10%	1	200ms	50			Pin Selectable Thresholds and Tolerances of 5%, 7.5%, 10%	I	TSOT-8, 3×2 DFN-8	$1.35
LTC2907	2	5, 3.3, 2.5	1	0.5			5%, 7.5%, 10%	1	Adj				Pin Selectable Thresholds and Tolerances of 5%, 7.5%, 10%	I	TSOT-8, 3×2 DFN-8	$1.35
LTC1921	2	48			yes					160	no	no	Dual –48V Supply Monitor	I	DIP-8, SO-8	$2.50
LT6700	2		2	0.4	yes					6.3	no	no	Dual Comparator and 400mV Voltage Reference	I	SOT23, 2×3 DFN-6	$1.25
LTC1442	2		2	1.182	yes					3.5	no	no	Dual Comparator and 1.182mV Voltage Reference	I	DIP-8, SO-8	$2.20
LTC1843	2		2	1.182	yes					3.5	no	no	Dual Comparator and 1.182mV Voltage Reference. Open Drain Outputs	I	DIP-8, SO-8	$1.40
LTC2934	1	1.6 to 6	1	0.4			5%	0.4	15ms/ 200ms	0.5		yes	500nA Supply Current, Resistor-Set Reset and Power Fail Thresholds	I	TSOT-8, 2×2 DFN-8	$1.15
LTC2935	1	1.6 to 6	1	0.4			5%	2.25	200ms	0.5		yes	500nA Quiescent Current, Single Supervisor, Eight Pre-Set Reset/Power-Fail Threshold Levels, Ideal For Li-Ion Batteries	I	TSOT-8, 2×2 DFN-8	$1.22
LTC2915	1	12 to 0.5	1	0.5			5%, 10%, 15%	0.5	Adj	30			Single Supervisor Monitors 27 Unique Thresholds Between 12V and 0.5V	I, H	TSOT-8, 3×2 DFN-8	$1.05

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

µP SUPERVISORY

Part Number	† Number of Voltage Monitors	Fixed Voltage Range, (V)	Adjustable Inputs	Minimum Adj Threshold, (V)	OV Monitor	Negative Monitor	Reset Threshold Tolerance	Minimum Reset Level (V)	Reset Pulse Width	Supply Current (µA)	Watchdog Timer	Power Fail Warning	Comments	Ext. Temp.	Package	Price 1K Qty
LTC2916	1	12 to 0.5	1	0.5			5%	0.5	Adj	30			Single Supervisor Monitors 9 Unique Thresholds Between 12V and 0.5V, Manual Reset	I, H	TSOT-8, 3×2 DFN-8	$1.05
LTC2917	1	12 to 0.5	1	0.5			5%, 10%, 15%	0.5	Adj	30	Adj		Single Supervisor Monitors 27 Unique Thresholds Between 12V and 0.5V	I, H	MSOP-10, 3×2 DFN-10	$1.30
LTC2918	1	12 to 0.5	1	0.5			5%	0.5	Adj	30	Adj		Single Supervisor Monitors 9 Unique Thresholds Between 12V and 0.5V, Manual Reset	I, H	MSOP-10, 3×2 DFN-10	$1.30
LTC2912	1		1	0.5	yes					40			Single UV/OV Monitor, UV/OV Outputs, Shunt Regulated for High Voltage Operation	I	TSOT-8, 3×2 DFN-8	$1.45
LTC1232	1	5					5%, 10%	1	600ms	500	yes		Pushbutton Input	I	DIP-8, SO-8	$1.75
LTC1235	1	5					7%	1	200ms	600	yes	yes	UL Recognized and Conditional Battery Backup. Ram Protect and Pushbutton Input		DIP-16, SO-16	$3.70
LTC1998	1		1	2.5 to 3.25				2.5		2.5			1% Accuracy Battery Monitor, Comparator/V_{REF}	I	TSOT-6	$0.90
LTC690	1	5					7%	1	50ms	600	yes	yes	UL Recognized Battery Backup	I	DIP-8, SO-8	$3.40
LTC691	1	5					7%	1	50ms	600	yes	yes	UL Recognized and Conditional Battery Backup. Ram Protect	I	DIP-16, SO-16	$3.70
LTC692	1	5					12%	1	200ms	600	yes	yes	UL Recognized Battery Backup	I	DIP-8, SO-8	$3.40
LTC693	1	5					12%	1	200ms	600	yes	yes	UL Recognized and Conditional Battery Backup. Ram Protect	I	DIP-16, SO-16	$3.70
LTC694	1	5					7%	1	200ms	600	yes	yes	UL Recognized Battery Backup	I	DIP-8, SO-8	$3.40
LTC694-3.3	1	3.3					12%	1	200ms	600	yes	yes	UL Recognized Battery Backup	I	DIP-8, SO-8	$3.65
LTC695	1	5					7%	1	200ms	600	yes	yes	UL Recognized and Conditional Battery Backup. Ram Protect	I	DIP-16, SO-16	$3.70
LTC695-3.3	1	3.3					12%	1	200ms	600	yes	yes	UL Recognized and Conditional Battery Backup. Ram Protect	I	DIP-16, SO-16	$4.00
LTC699	1	5					7%	1	200ms	600	yes			I	DIP-8, SO-8	$2.45

† Primary Sort Column

PUSHBUTTON CONTROLLERS

Part Number	Supply Voltage (V)	Supply Current (µA)	ON Timer (ms)	OFF Timer	Kill Timer (ms)	Ideal Diode	External FET	Ext. Temp	Comments	Package	Price 1K Qty
LTC2950	2.7 to 26	6	Adj	Adj	512			I	Active High Enable Output (LTC2950-1), Active Low Enable Output (LTC2950-2)	TSOT-8, 3×2 DFN-8	$1.75
LTC2951	2.7 to 26	6	128	Adj	Adj			I	Active High Enable Output (LTC2951-1), Active Low Enable Output (LTC2951-2)	TSOT-8 , 3×2 DFN-8	$1.75
LTC2952	2.7 to 28	25	Adj	Adj	400	yes	P-Channel	I	Pushbutton PowerPath Controller with System Monitoring	TSSOP-20, 4×4 QFN-20	$2.95
LTC2953	2.7 to 27	14	32	Adj	512			I	Pushbutton Controller with Dual Input Battery Monitor and Output Supervisor	3×3 DFN-12	$2.30
LTC2954	2.7 to 26	6	Adj	Adj	512			I	Interrupt Logic for Menu Driven Applications. Active High Enable output (LTC2954-1), Active Low Enable Output (LTC2954-2)	TSOT-8, 3×2 DFN-8	$1.81

SUPPLY TRACKERS, SEQUENCERS AND MARGINING CONTROLLERS

Part Number	Supply Voltage (V)	Max Voltage (V)	† Total Supplies	Tracking[1]	Sequencing	Tracking Methods: Series FETs	Tracking Methods: DC/DC Feedback	Up/Down	Circuit Breakers	Input Monitors	DC/DC Enable	Margining	PWRGD	Ext. Temp.	Comments	Package	Price 1K Qty
LTC2927	2.9 to 5.5		1	Flexible	yes		1	Both						I	Single Power Supply Tracking Controller for Point of Load or Distributed Applications	TSOT-8, 3×2 DFN-8	$1.55
LTC2920-1/-2	2.3 to 6		1/2									yes		I	Symmetric and Asymmetric High and Low Voltage Margining. Single (LTC2920-1) or Dual (LTC2920-2)	TSOT-5, MSOP-8	$1.20
LTC2970	5 or 12		2	Coincident	yes		2	Both		6 (14-Bit ADC)		yes (8-Bit DAC)	yes	I	Dual Digital Power Monitor and Margining Controller, ±0.5% Unadjusted Error, 14-Bit ADC, 8-Bit DACs, Internal Temp Sensor, Automatic Servo to Programmed Voltage, Under/Overvoltage and Under/Overcurrent Measurements	4×5 QFN-24	$3.99
LTC2923	2.9 to 5.5		3	Flexible	yes	1	2	Both	1					I	Closed Loop (Feedback) Tracking for Two Supplies without Series FETs or a Third Supply with a Series FET (Open Loop)	MS-10, 4×3 DFN-12	$2.95
LTC2926	2.9 to 5.5		3	Flexible	yes	3	2	Both						I	Closed Loop (Feedback) Tracking for Three Supplies with Series FETs, Integrated Remote Sense Switching for Voltage Drop Compensation	SSOP-20, 4×5 QFN-20	$3.50
LTC2925	2.9 to 5.5		4	Flexible	yes	1	3	Both	1					I	Closed Loop (Feedback) Tracking for Three Supplies without Series FETs or a Fourth Supply with a Series FET (Open Loop). Remote Sense Switch for Voltage Drop Compensation	SSOP-24, 4×4 QFN-24	$3.75
LTC2928	2.9 to 16.5		4		yes			Both		4	yes			I	Hardware Configuration of Power Turn-On/Off Sequence with Adjustable Time Positions, Supply Monitoring with 1.5% Accuracy, Supply Failures Diagnostics	SSOP-36, 5×7 QFN-38	$3.95
LTC2921	2.5, 3.3 or 5	12	5	Coincident	no[2]	5		Up Only	1	5			yes	I	Open Loop Tracking Using Common FET. 3 Remote Sense Switches for Voltage Drop Compensation	SSOP-16	$3.15
LTC2922	2.5, 3.3 or 5	12	5	Coincident	no[2]	5		Up Only	1	5			yes	I	Open Loop Tracking Using Common FET. 5 Remote Sense Switches for Voltage Drop Compensation	SSOP-20	$3.40
LTC2924	3 to 6.5		6		yes	4		Both		yes	yes			I	On/Off Power Supply Sequencer	SSOP-16	$2.65
LTC2978	**5 or 12**		**8**	**Coincident**	**yes**		**8**	**Both**		**9 (15-bit ADC)**		**yes (10-bit DAC)**	**yes**	**I**	**Octal Digital Power Monitor and Margining Controller, Configurable EEPROM, ±0.25% Unadjusted Error, 15-Bit ADC, 10-Bit DACs, Internal Temp Sensor, Automatic Servo to Programmed Voltage, Under/Overvoltage and Under/Overcurrent Measurements**	**9×9 QFN-64**	**C.F.**

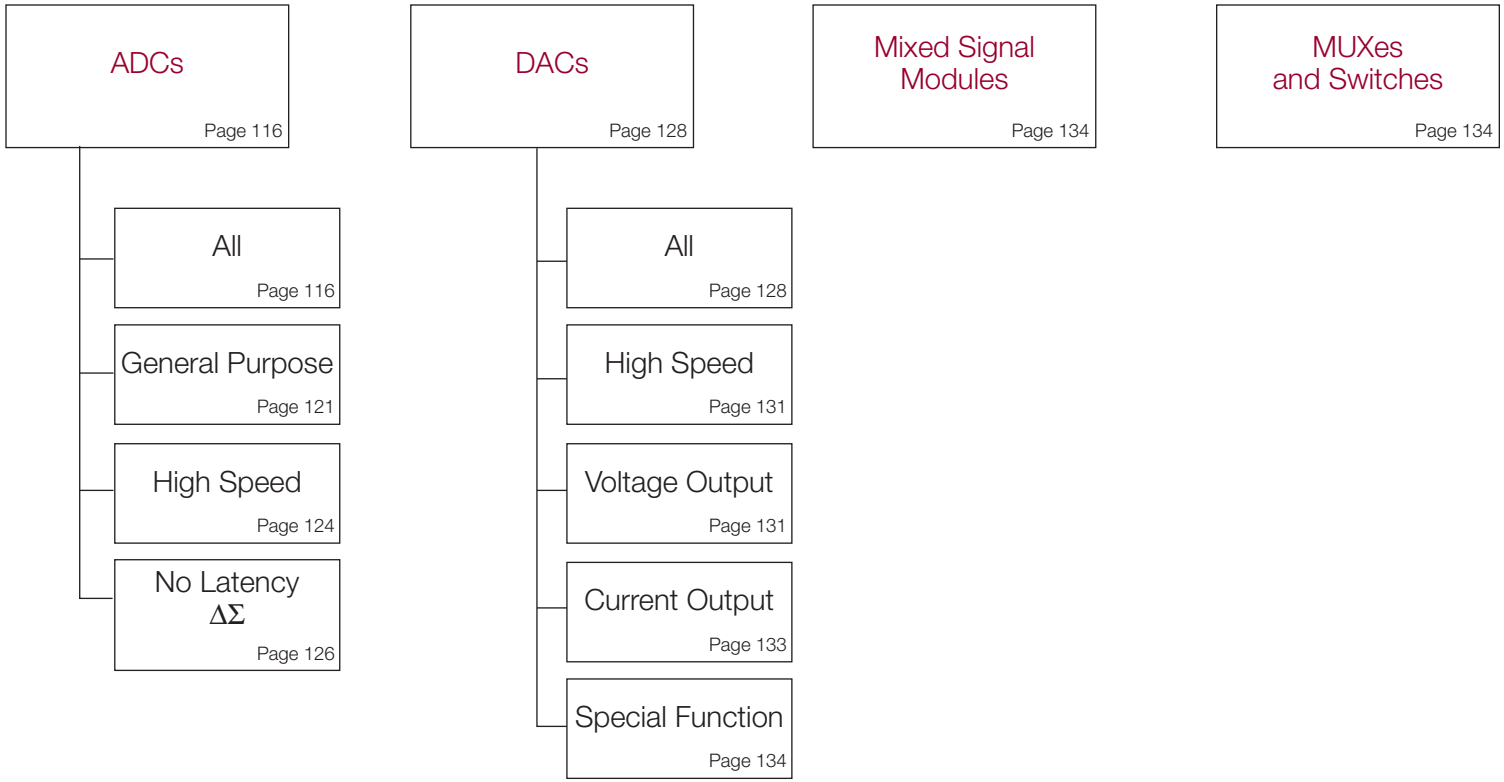
† Primary Sort Column

Notes:
1. Flexible Tracking = Coincident, Ratiometric or Offset
2. Limited sequencing possible

POWER MONITORS

Part Number	Supply Voltage (V)	Current/Voltage Pairs Monitored	Tracking Via DC/DC Feedback	Sequencing	On-Chip ADC	On-Chip Margining	PWRGD	Interface	Ext. Temp	Comments	Package	Price 1K Qty
LTC4151	7 to 80	1	–	–	12-Bit	–	–	I²C	I	High V_{IN}, Single Voltage/Current Monitor with Auxiliary Input. 12-Bit ADC, Continuous or Snap Shot Scan Modes,	3×3 DFN-10, MSOP-10	$2.60
LTC2970	5 or 12	2	Coincident, Up and Down	yes	14-Bit	yes (8-Bit DACs)	yes	I²C	I	Dual Digital Power Monitor and Margining Controller, ±0.5% Unadjusted Error, 14-Bit ADC, 8-Bit DACs, Internal Temp Sensor, Automatic Servo To Programmed Voltage, Under/Overvoltage and Under/Overcurrent Measurements	4×5 QFN-24	$3.99
LTC2978	**5 or 12**	**8**	**Coincident, Up and Down**	**yes**	**15-Bit**	**yes (10-Bit DACs)**	**yes**	**PMBus**	**I**	**Octal Digital Power Monitor and Margining Controller, Config. EEPROM, ±0.25% Unadjusted Error, 15-Bit ADC, 10-Bit DACs, Internal Temp Sensor, Automatic Servo to Programmed Voltage, Under/Overvoltage and Under/Overcurrent Measurements**	**9×9 QFN-64**	**C.F.**
LTC2990	**3 to 5.5**	**1**	**Coincident, Up and Down**	**yes**	**14-Bit**	**yes (8-Bit DACs)**	**–**	**I²C**	**I**	**Dual I²C Power Supply Monitor and Controller, ±0.5% Unadjusted Error, 14-Bit ADC, 8-Bit DACs, Internal Temp Sensor, Automatic Servo to Programmed Voltage, Under/Overvoltage and Under/Overcurrent Measurements**	**4×5 QFN-24**	**C.F.**

Data Conversion



ADCs (ALL)

Part Number	† Bits	MUX	†† Speed (sps)	SINAD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC2442	24	2/4	8k		1	10ppm	5µV	50ppm	50	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	no	I	Integrated Amplifier	SSOP-36	$7.45
LTC2444	24	4/8	8k		1	15ppm	5µV	50ppm	40	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		5×7 QFN-38	$6.45
LTC2445	24	4/8	8k		1	15ppm	5µV	50ppm	40	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		5×7 QFN-38	$6.45
LTC2446	24	4/8	8k		1	15ppm	5µV	50ppm	40	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Multiple Reference Inputs	5×7 QFN-38	$7.15
LTC2447	24	4/8	8k		1	15ppm	5µV	50ppm	40	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Multiple Reference Inputs	5×7 QFN-38	$7.15
LTC2448	24	8/16	8k		1	15ppm	5µV	50ppm	40	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		5×7 QFN-38	$7.15
LTC2449	24	8/16	8k		1	15ppm	5µV	50ppm	40	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		5×7 QFN-38	$7.15
LTC2440	24		4k		1	15ppm	5µV	30ppm	40	4.5 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$5.75
LTC2415	24		15		1	14ppm	2mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$5.50
LTC2415-1	24		13.75		1	14ppm	2mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$5.50
LTC2484	24		15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Easy Drive™, Temp Sensor	3×3 DFN-10	$2.45
LTC2485	24		15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	I^2C		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Easy Drive, Temp Sensor	3×3 DFN-10	$2.45
LTC2492	24	2/4	15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Easy Drive, Temp Sensor	4×3 DFN-14	$2.95
LTC2493	24	2/4	15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	I^2C		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Easy Drive, Temp Sensor	4×3 DFN-14	$2.95
LTC2498	24	8/16	15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Easy Drive, Temp Sensor	5×7 QFN-38	$3.45
LTC2499	24	8/16	15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	I^2C		$-V_{REF}/2$ to $V_{REF}/2$	yes	I	Easy Drive, Temp Sensor	5×7 QFN-38	$3.45
LTC2400	24		7.5		1	10ppm	2ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		SO-8	$5.50
LTC2401	24		7.5		1	10ppm	2ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		MSOP-10	$5.30
LTC2402	24	2	7.5		1	10ppm	2ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		MSOP-10	$5.60
LTC2404	24	4	7.5		1	10ppm	2ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		SSOP-28	$6.00
LTC2408	24	8	7.5		1	10ppm	2ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		SSOP-28	$6.25
LTC2410	24		7.5		1	14ppm	2.5mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$5.50
LTC2411	24		7.5		1	14ppm	20mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		MSOP-10	$5.50
LTC2411-1	24		7.5		1	14ppm	20mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		MSOP-10	$5.50
LTC2413	24		7.5		1	14ppm	2.5mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$5.50
LTC2412	24	2	7.5		1	14ppm	2.5µV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$4.75
LTC2414	24	4/8	7.5		1	14ppm	10mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-28	$6.25
LTC2418	24	8/16	7.5		1	14ppm	10mV	12ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-28	$6.95
LTC2435	20		15		1	20ppm	5mV	25ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$3.55
LTC2435-1	20		13.75		1	20ppm	5mV	25ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$3.55
LTC2420	20		7.5		1	10ppm	10ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		SO-8	$4.25
LTC2421	20		7.5		1	10ppm	10ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		MSOP-10	$4.35
LTC2422	20	2	7.5		1	10ppm	10ppm	10ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		MSOP-10	$4.50
LTC2424	20	4	7.5		1	10ppm	10ppm	15ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		SSOP-28	$4.75
LTC2428	20	8	7.5		1	10ppm	10ppm	15ppm	1	2.7 to 5.5		SPI		0 to V_{REF} ±12%	yes	I		SSOP-28	$5.25
LTC2430	20		7.5		1	20ppm	20mV	20ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		SSOP-16	$3.55
LTC2431	20		7.5		1	20ppm	20mV	20ppm	1	2.7 to 5.5	yes	SPI		$-V_{REF}/2$ to $V_{REF}/2$	yes	I		MSOP-10	$3.70
LTC2209#3CD	16		185M	76.5	1	–	19mV	2.5%	1900	3.6	yes		yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	C.F.
LTC2209#3BC	16		180M	76.5	1	–	15mV	2%	1700	3.6	yes		yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	C.F.
LTC2209	16		160M	77.1	1	5	10mV	2%	1450	3.3	yes		yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$72.50
LTC2208	16		130M	77.7	1	4.5	8.5mV	1.5%	1250	3.3	yes		yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$65.00
LTC2217	16		105M	81.2	1	4	6mV	1.0%	1190	3.3	yes		yes	±1.375V	yes	I	Low Noise	9×9 QFN-64	$68.00
LTC2274	16		105M	77.5	1	4.5	8.5mV	1.5%	1300	3.3	yes	yes	yes	±0.75V to ±1.125V	yes	I	High Speed Serial Output	6×6 QFN-40	$68.00
LTC2207	16		105M	77.9	1	4.5	8.5mV	1.5%	900	3.3	yes		yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$56.67
LTC2216	16		80M	81.3	1	3.5	6mV	1.0%	970	3.3	yes		yes	±1.375V	yes	I	Low Noise	9×9 QFN-64	$58.00
LTC2206	16		80M	77.9	1	4.5	8.5mV	1.5%	725	3.3	yes		yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$48.33
LTC2273	16		80M	77.5	1	4.5	8.5mV	1.5%	1100	3.3	yes	yes	yes	±0.75V to ±1.125V	yes	I	High Speed Serial Output	6×6 QFN-40	$58.00
LTC2215	16		65M	81.5	1	3.5	6mV	1.0%	700	3.3	yes		yes	±1.375V	yes	I	Low Noise	9×9 QFN-64	$52.00
LTC2205	16		65M	79	1	4.5	8.5mV	1.9%	610	3.3	yes		yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$43.33
LTC2272	16		65M	77.5	1	4.5	8.5mV	1.5%	980	3.3	yes	yes	yes	±0.75V to ±1.125V	yes	I	High Speed Serial Output	6×6 QFN-40	$52.00
LTC2204	16		40M	79.1	1	4.5	8.5mV	1.5%	480	3.3	yes		yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$35.00
LTC2203	16		25M	81.5	1	4.5	10mV	1.5%	220	3.3	yes		yes	±0.834V to ±1.25V	yes	I	Single Ended Clock	7×7 QFN-48	$30.00
LTC2202	16		10M	81.5	1	4.5	10mV	1.5%	140	3.3	yes		yes	±0.834V to ±1.25V	yes	I	Single Ended Clock	7×7 QFN-48	$25.00
LTC1608A	16		500k	90	1	2	0.13%	0.25%	270	±5	yes		yes	±2.5V	yes	I		SSOP-36	$16.50
LTC1604A	16		333k	90	1	2	0.13%	0.25%	220	±5	yes		yes	±2.5V	yes	I		SSOP-36	$20.50

† Primary Sort Column
†† Secondary Sort Column
*Simultaneous Sampling

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	MUX	†† Speed (sps)	SINAD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC1603	16		250k	90	1	3	0.13%	0.25%	220	±5	yes		yes	±2.5V	yes	I		SSOP-36	$9.95
LTC1864A	16		250k	83	2	6	5mV	20mV	4.25	5		SPI		0V to 5V	yes	I		MSOP-8, SO-8	$5.95
LTC1865A	16	2	250k	83	2	6	5mV	20mV	4.25	5		SPI		0V to 5V	yes	I		MSOP-8, SO-8	$6.45
LTC1606A	16		250k	90	1	2	10mV	0.25%	75	5	yes		yes	±10V	no	I		SSOP-28, SO(W)-28	$19.50
LTC1609A	16		200k	87.5	1	2	10mV	0.25%	65	5	yes	SPI	yes	0V to 5V, 0V to 10V, 0V to 4V, ±10V, ±5V, ±3.3V	yes	I		SSOP-28, SO(W)-20	$14.95
LTC1867A	16	8	200k	88	1	2	32	64	6.5	5	yes	SPI	yes	0V to 4.096V, ±2.048V	yes	I		SSOP-16	$7.75
LTC1867LA	16	8	175k	83	1	3	32	64	2	3	yes	SPI	yes	0V to 2.5V, ±1.25V	yes	I		SSOP-16	$7.75
LTC1864LA	16		150k	82	2	6	5mV	20mV	1.22	3		SPI		0V to 3V	yes	I		MSOP-8, SO-8	$5.95
LTC1865LA	16	2	150k	82	2	6	5mV	20mV	1.22	3		SPI		0V to 3V	yes	I		MSOP-8, SO-8	$6.45
LTC1605A	16		100k	87	1	2	10mV	0.25%	55	5	yes		yes	±10V	no	I		DIP-28, SSOP-28, SO(W)-28	$17.00
LTC1605-1	16		100k	87	2	3	10mV	0.50%	55	5			yes	0V to 4V	no	I		DIP-28, SSOP-28	$17.00
LTC1605-2	16		100k	87	2	3	10mV	0.50%	55	5	yes		yes	±4V	no	I		DIP-28, SSOP-28	$17.00
LTC1859	16	8	100k	87	–2 to 4	3	25	0.20%	40	5	yes	SPI	yes	0V to 5V, 0V to 10V, ±10V, ±5V	yes	I	SoftSpan™ with ±25V Fault Protection	SSOP-28	$17.95
LTC1856	16	8	100k	87	–2 to 4	3	23	0.10%	40	5	yes	SPI	yes	±10V	yes	I	±30V Fault Protection	SSOP-28	$12.95
LTC2450-1	16		60		1	10	2mV	0.02%	1.05	2.7 to 5.5		SPI		0V to V_{CC}	yes	I	Ultra Tiny ΔΣ ADC	2×2 DFN-6	$1.15
LTC2450	16		30		1	10	0.3mV	0.02%	1.05	2.7 to 5.5		SPI		0V to V_{CC}	yes	I	Ultra Tiny ΔΣ ADC, 30Hz Output	2×2 DFN-6	$1.15
LTC2460	**16**		**60**		**1**	**10**	**10**	**0.25%**	**4.5**	**2.7 to 5.5**		**SPI**	**10ppm/°C Max**	**0V to 1.25V**	**yes**	**I**	**Ultra Tiny ΔΣ ADC, 10ppm/°C (Max) Reference, 60Hz Output**	**3×3 DFN-12, MSOP-12**	**C.F.**
LTC2451	16		30 or 60		1	10	0.5mV or 2mV	0.02%	1.05	2.7 to 5.5		I^2C		0V to V_{CC}	yes	I	Ultra Tiny ΔΣ ADC, 60Hz Output	3×2 DFN-8, TSOT-8	$1.15
LTC2461	**16**		**60**		**1**	**10**	**10**	**0.25%**	**4.5**	**2.7 to 5.5**		**I^2C**	**10ppm/°C Max**	**0V to 1.25V**	**yes**	**I**	**Ultra Tiny ΔΣ ADC, 10ppm/°C (Max) Reference, 60Hz Output**	**3×3 DFN-12, MSOP-12**	**C.F.**
LTC2452	16		60		1	10	0.4mV	0.02%	1.05	2.7 to 5.5		SPI		±V_{CC}	yes	I	Ultra Tiny ΔΣ ADC, Differential Input	3×2 DFN-8, TSOT-8	$1.25
LTC2462	**16**		**60**		**1**	**10**	**10**	**0.25%**	**4.5**	**2.7 to 5.5**	**yes**	**SPI**	**10ppm/°C Max**	**±1.25V**	**yes**	**I**	**Ultra Tiny ΔΣ ADC, 10ppm/°C (Max) Reference, Differential Input**	**3×3 DFN-12, MSOP-12**	**C.F.**
LTC2453	16		60		1	10	0.4mV	0.02%	1.05	2.7 to 5.5	yes	I^2C		±V_{CC}	yes	I	Ultra Tiny ΔΣ ADC, Differential Input	3×2 DFN-8, TSOT-8	$1.25
LTC2463	**16**		**60**		**1**	**10**	**10**	**0.25%**	**4.5**	**2.7 to 5.5**	**yes**	**I^2C**	**10ppm/°C Max**	**±1.25V**	**yes**	**I**	**Ultra Tiny ΔΣ ADC, 10ppm/°C (Max) Reference, Differential Input**	**3×3 DFN-12, MSOP-12**	**C.F.**
LTC2450	16		30		1	10	2mV	0.02%	1.05	2.7 to 5.5		SPI		0V to V_{CC}	yes	I	Ultra Tiny ΔΣ ADC, 30Hz Output	2×2 DFN-6	$1.15
LTC2480	16		15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I, H	Easy Drive, Temp Sensor, PGA	3×3 DFN-10	$1.85
LTC2481	16		15		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	I^2C		–V_{REF}/2 to V_{REF}/2	yes	I, H	Easy Drive, Temp Sensor, PGA	3×3 DFN-10	$1.85
LTC2486	16	2/4	15		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive, Temp Sensor, PGA	4×3 DFN-14	$2.35
LTC2487	16	2/4	15		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	I^2C		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive, Temp Sensor, PGA	4×3 DFN-14	$2.35
LTC2494	16	8/16	15		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive, Temp Sensor, PGA	5×7 QFN-38	$2.85
LTC2495	16	8/16	15		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	I^2C		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive, Temp Sensor, PGA	5×7 QFN-38	$2.85
LTC2482	16		7.5		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive	3×3 DFN-10	$1.65
LTC2483	16		7.5		1	10ppm	2.5µV	25ppm	0.48	2.7 to 5.5	yes	I^2C		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive	3×3 DFN-10	$1.65
LTC2488	16	2/4	7.5		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive	4×3 DFN-14	$2.15
LTC2489	16	2/4	7.5		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	I^2C		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive	4×3 DFN-14	$2.15
LTC2496	16	8/16	7.5		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive	5×7 QFN-38	$2.65
LTC2497	16	8/16	7.5		1	20ppm	5µV	32ppm	0.48	2.7 to 5.5	yes	I^2C		–V_{REF}/2 to V_{REF}/2	yes	I	Easy Drive	5×7 QFN-38	$2.65
LTC2433-1	16		6.8		1	1.25	20µV	1.25	1	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I		MSOP-10	$1.95
LTC2436-1	16	2	6.8		1	3	1	3	1	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I		SSOP-16	$2.45
LTC2439-1	16	8/16	6.8		1	1.25	20µV	1.25	1	2.7 to 5.5	yes	SPI		–V_{REF}/2 to V_{REF}/2	yes	I		SSOP-28	$3.75
LTC2262-14	**14**		**150M**	**72.5**	**1**	**3.75**	**9mV**	**1.5%**	**149**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**C.F.**
LTC2285#3CG	**14**		**135M**		**0.6**	**1.5**	**12mV**	**2.5%**	**954**	**3.3**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Dual ADC**	**9×9 QFN-64**	**C.F.**
LTC2285	14		125M		0.6	1.5	12mV	2.5%	790	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$73.50
LTC2255	14		125M	72.2	1	5	12mV	2.5%	395	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$49.00
LTC2261-14	14		125M	73	0.9	3.75	9mV	1.5%	127	1.8	yes		yes	±0.5V to ±1V	yes	I	Ultralow Power, 1.8V ADC; CMOS, DDR CMOS and DDR LVDS Outputs	6×6 QFN-40	$52.00
LTC2284	14		105M	72.2	0.6	1.5	12mV	2.5%	540	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$61.50
LTC2254	14		105M	72.4	1	5.5	12mV	2.5%	320	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$41.00

† Primary Sort Column
†† Secondary Sort Column
*Simultaneous Sampling

ADCs (ALL)

Part Number	† Bits	MUX	†† Speed (sps)	SINAD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC2260-14	14		105M	73	0.9	3.75	9mV	1.5%	106	1.8	yes		yes	±0.5V to ±1V	yes	I	Ultralow Power, 1.8V ADC; CMOS, DDR CMOS and DDR LVDS Outputs	6×6 QFN-40	$44.00
LTC1748	14		80M	76	1.5	3	35mV	3.5%	1400	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$32.30
LTC1750	14		80M	75.2	1.5	3	35mV	3.5%	1450	5	yes		yes	±0.7V to ±1.125V	no	I	Undersampling to 500MHz	TSSOP-48	$32.30
LTC2249	14		80M	72.9	1	4	12mV	2.5%	222	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$25.00
LTC2259-14	14		80M	73	0.9	3.5	9mV	1.5%	89	1.8	yes		yes	±0.5V to ±1V	yes	I	Ultralow Power, 1.8V ADC; CMOS, DDR CMOS and DDR LVDS Outputs	6×6 QFN-40	$28.00
LTC2299	14		80M	72.9	1	5	12mV	2.5%	444	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$37.50
LTC1742	14		65M	76.2	1	3	35mV	3.5%	1275	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$24.65
LTC2248	14		65M	74.3	1	4	12mV	2.5%	205	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$23.35
LTC2258-14	**14**		**65M**	**73.8**	**0.9**	**3.75**	**9mV**	**1.5%**	**81**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**$25.35**
LTC2298	14		65M	74.3	1	5	12mV	2.5%	400	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$35.03
LTC1744	14		50M	77	1.5	4	20	3%	1500	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$25.00
LTC2247	14		40M	74.4	1	4	12mV	2.5%	120	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$15.85
LTC2257-14	**14**		**40M**	**73.2**	**0.9**	**3.75**	**9mV**	**1.5%**	**49**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**$17.85**
LTC2297	14		40M	74.4	1	5	12mV	2.5%	235	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$23.78
LTC1746	14		25M	77.5	1	3	30	2.5%	465	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$12.75
LTC2246	14		25M	74.5	1	4	12mV	2.5%	75	3	yes		yes	±0.5V to ±1V	yes	I, H		5×5 QFN-32, 7×7 LQFP	$12.50
LTC2256-14	**14**		**25M**	**72.8**	**1**	**3.5**	**9mV**	**1.5%**	**35**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**$14.50**
LTC2296	14		25M	74.5	1	5	12mV	2.5%	150	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$18.75
LTC2245	14		10M	74.4	1	4	12mV	2.5%	60	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$10.00
LTC2295	14		10M	74.4	1	5	12mV	2.5%	120	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$17.00
LTC1740	14		6M	79.1	1.25	2.5	15	30	300	±5 or 5	yes		yes	±1.25V, ±2.5V, $\pm V_{REF}$/1.8V	no	I		SSOP-36	$17.20
LTC2355-14	14		3.5M	74.2	1	4	20	60	18	3.1 to 3.6		SPI	yes	0V to 2.5V	yes	I		MSOP-10	$7.95
LTC2356-14	14		3.5M	74.2	1	4	20	60	18	3.1 to 3.6	yes	SPI	yes	±1.25V	yes	I		MSOP-10	$7.95
LTC1407A	14	2*	3M	73.5	1	4	20	60	12	3		SPI	yes	0V to 2.5V	yes	I, H	Simultaneous Sampling	MSOP-10	$7.00
LTC1407A-1	14	2*	3M	73.5	1	4	20	60	12	3	yes	SPI	yes	±1.25V	yes	I	Simultaneous Sampling	MSOP-10	$7.00
LTC1403A	14		2.8M	73.5	1	4	20	60	12	3		SPI	yes	0V to 2.5V	yes	I, H		MSOP-10	$7.00
LTC1403A-1	14		2.8M	73.5	1	4	20	60	12	3	yes	SPI	yes	±1.25V	yes	I		MSOP-10	$7.00
LTC1411	14		2.5M	80	1	2	24	60	195	5	yes		yes	±0.64V to ±1.8V	yes	I		SSOP-36	$18.00
LTC1414	14		2.2M	78	1.75	2	20	60	175	±5	yes		yes	±2.5V	no	I		SSOP-28	$16.00
LTC2351-14	14	6*	1.5M	75	1	3	4.5mV	12mV	16.5	3	yes	SPI	yes	0V to 2.5V, ±1.25V	yes	I, H	Simultaneous Sampling	5×5 QFN-32	$9.45
LTC1419A	14		800k	81.5	1	1.25	20	60	150	±5	yes		yes	±2.5V	yes	I		SSOP-28, SO(W)-28	$15.15
LTC1408	14	6*	600k	76	1	3	4.5mV	12mV	15	3	yes	SPI	yes	0V to 2.5V, ±1.25V	yes	I	Simultaneous Sampling	5×5 QFN-32	$8.95
LTC1416	14		400k	80	1.5	2	20	40	70	±5	yes		yes	±2.5V	yes	I		SSOP-28	$6.90
LTC1417A	14		400k	81	1	1.25	10	15	20	5, ±5	yes	SPI	yes	0V to 4V, ±2V	yes	I		SSOP-16	$7.60
LTC1418A	14		200k	81.5	1	1.25	10	15	15	5, ±5	yes	Ser/Par	yes	0V to 4V, ±2V	yes	I		DIP-28, SSOP-28	$7.90
LTC1858	14	8	100k	83	–1 to 1.5	1.5	15	0.25%	40	5	yes	SPI	yes	0V to 5V, 0V to 10V, ±5V, ±10V	yes	I	SoftSpan with ±30V Fault Protection	SSOP-28	$12.95
LTC1855	14	8	100k	83	–1 to 1.5	1.5	8	0.40%	40	5	yes	SPI	yes	±10V	yes	I	±30V Fault Protection	SSOP-28	$7.95
LTC2242-12	12		250M	65.3	1	2.7	17mV	3.2%	740	2.5	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$59.00
LTC2241-12	12		210M	65.4	1	2.3	15mV	3.4%	585	2.5	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$42.00
LTC2220-1	12		185M	62.7	1.2	1.8	35mV	2.5%	910	3.3	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$49.00
LTC2240-12	12		170M	65.5	1	2.1	15mV	3.5%	445	2.5	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$35.00
LTC2220	12		170M	62.7	1	1.5	35mV	2.5%	890	3.3	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$39.55
LTC2262-12	**12**		**150M**	**70.4**	**1**	**1**	**9mV**	**1.5%**	**146**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**C.F.**
LTC2221	12		135M	62.8	1	1	35mV	2.5%	660	3.3	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$33.92
LTC2224	12		135M	67.4	1	1	35mV	2.5%	630	3.3	yes		yes	±0.5V to ±1V	yes	I		7×7 QFN-48	$33.92
LTC2283	12		125M	69.8	1	1.5	12mV	2.5%	790	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$41.25
LTC2253	12		125M	69.8	0.7	1.5	12mV	2.5%	395	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$27.50
LTC2261-12	12		125M	71	0.4	1	9mV	1.5%	127	1.8	yes		yes	±0.5V to ±1V	yes	I	Ultralow Power, 1.8V ADC; CMOS, DDR CMOS and DDR LVDS Outputs	6×6 QFN-40	$29.50

† Primary Sort Column
†† Secondary Sort Column
*Simultaneous Sampling

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	MUX	†† Speed (sps)	SINAD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC2282	12		105M	70	0.9	1.5	12mV	2.5%	540	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$34.50
LTC2252	12		105M	70.1	0.7	1.5	12mV	2.5%	320	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$23.00
LTC2260-12	12		105M	71	0.4	1	9mV	1.5%	106	1.8	yes		yes	±0.5V to ±1V	yes	I	Ultralow Power, 1.8V ADC; CMOS, DDR CMOS and DDR LVDS Outputs	6×6 QFN-40	$25.00
LTC2222	12		105M	68.4	1	1.3	30mV	2.5%	475	3.3	yes		yes	±0.5V to ±1V	yes	I		7×7 QFN-48	$29.92
LTC1747	12		80M	72	0.8	1	35mV	3.5%	1400	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$19.55
LTC1749	12		80M	71.7	0.8	1	35mV	3.5%	1400	5	yes		yes	±0.7V to ±1.125V	no	I	Undersampling to 500MHz	TSSOP-48	$19.55
LTC2223	12		80M	68.5	0.8	1.1	30mV	2.5%	366	3.3	yes		yes	±0.5V to ±1V	yes	I		7×7 QFN-48	$16.70
LTC2229	12		80M	70.6	0.8	1.1	12mV	2.5%	211	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$16.70
LTC2259-12	12		80M	70	0.4	1	9mV	1.5%	89	1.8	yes		yes	±0.5V to ±1V	yes	I	Ultralow Power, 1.8V ADC; CMOS, DDR CMOS and DDR LVDS Outputs	6×6 QFN-40	$18.70
LTC2294	12		80M	70.6	0.8	1.4	12mV	2.5%	422	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$25.05
LTC1741	12		65M	72	0.8	1	35mV	3.5%	1275	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$12.75
LTC2228	12		65M	71.3	0.8	1.1	12mV	2.5%	205	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$12.08
LTC2258-12	**12**		**65M**	**71**	**0.4**	**1**	**9mV**	**1.5%**	**79**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**$14.08**
LTC2293	12		65M	71.3	0.8	1.4	12mV	2.5%	400	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$18.12
LTC1743	12		50M	72.2	0.8	1	5	1%	1000	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$9.30
LTC2227	12		40M	71.4	0.7	1	12mV	2.5%	120	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$7.92
LTC2257-12	**12**		**40M**	**70.7**	**0.4**	**1**	**9mV**	**1.5%**	**47**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**$9.92**
LTC2292	12		40M	71.4	0.8	1.4	12mV	2.5%	235	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$11.88
LTC1745	12		25M	72.5	0.75	1	5	1%	380	5	yes		yes	±1V to ±1.6V	no	I		TSSOP-48	$9.30
LTC2226	12		25M	71.4	0.7	1	12mV	2.5%	75	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32, 7×7 LQFP	$7.50
LTC2256-12	**12**		**25M**	**70.5**	**0.4**	**1**	**9mV**	**1.5%**	**34**	**1.8**	**yes**		**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**$9.50**
LTC2291	12		25M	71.4	0.8	1.4	12mV	2.5%	150	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$11.25
LTC1420	12		10M	72	1	1	12	20	200	5, ±5	yes		yes	±2V, ±1V, ±0.5V	no	I		SSOP-28	$5.95
LTC2225	12		10M	71.3	0.4	1.1	12mV	2.5%	60	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$4.57
LTC2290	12		10M	71.3	0.7	1.3	12mV	2.5%	120	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$10.00
LTC1405	12		5M	71.3	1	1	12	30	115	5, ±5	yes		yes	±2V, ±1V, ±0.5V	no	I		SSOP-28	$5.95
LTC2355-12	12		3.5M	71.1	1	2	10	30	18	3.1 to 3.6		SPI	yes	0V to 2.5V	yes	I		MSOP-10	$4.95
LTC2356-12	12		3.5M	71.1	1	2	10	30	18	3.1 to 3.6	yes	SPI	yes	±1.25V	yes	I		MSOP-10	$4.95
LTC2366	12		3M	72	1	1	3	4	7.8	2.35 to 3.6		SPI		0V to 3.6V	yes	I, H	Industry Standard Pinout	TSOT-6, TSOT-8	$4.95
LTC1407	12	2*	3M	70.5	1	2	10	30	12	3		SPI	yes	0V to 2.5V	yes	I, H	Simultaneous Sampling	MSOP-10	$4.00
LTC1407-1	12	2*	3M	70.5	1	2	10	30	12	3	yes	SPI	yes	±1.25V	yes	I	Simultaneous Sampling	MSOP-10	$4.00
LTC1412	12		3M	72	1	1	6	15	150	±5	yes	SPI	yes	±2.5V	no	I		SSOP-28	$9.95
LTC1403	12		2.8M	70.5	1	2	10	30	12	3		SPI	yes	0V to 2.5V	yes	I, H		MSOP-10	$4.00
LTC1403-1	12		2.8M	70.5	1	2	10	30	12	3	yes	SPI	yes	±1.25V	yes	I		MSOP-10	$4.00
LTC1402	12		2.2M	72	1	1	10	15	90	5, ±5	yes	SPI	yes	0V to 4V, ±2V	yes	I		SSOP-16	$6.95
LTC2351-12	12	6*	1.5M	72	1	3	4.5mV	12mV	16.5	3	yes	SPI	yes	0V to 2.5V, ±1.25V	yes	I, H	Simultaneous Sampling	5×5 QFN-32	$5.95
LTC1410	12		1.25M	71	1	1	6	15	160	±5	yes		yes	±2.5V	yes	I		SSOP-28, SO(W)-28	$9.90
LTC1415	12		1.25M	69	1	1	6	20	55	5			yes	0V to 4V	yes	I		SSOP-28, SO(W)-28	$9.90
LTC1851	12	8	1.25M	70	1	1	7	6	50	5	yes		yes	0V to V_{REF}, 0V to V_{REF}/2 ±V_{REF}/2, ±V_{REF}/4	yes	I		TSSOP-48	$6.95
LTC2365	12		1M	72	1	1	3	4	6	2.35 to 3.6		SPI		0V to 3.6V	yes	I, H	Industry Standard Pinout	TSOT-6, TSOT-8	$2.15
LTC1409	12		800k	72.5	1	1	6	15	80	±5	yes		yes	±2.5V	yes	I		SSOP-28, SO(W)-28	$9.90
LTC1279	12		600k	70	1	1	4	15	60	5, ±5	yes		yes	0V to 5V, ±2.5V	yes	I		SSOP-24, SO(W)-24	$13.00
LTC1404	12		600k	72	1	1	6	15	75	5, ±5	yes	SPI	yes	0V to 4V, ±2V	yes	I		SO-8	$5.10
LTC1408-12	12	6*	600k	72	1	3	4.5mV	12mV	15	3	yes	SPI	yes	0V to 2.5V, ±1.25V	yes	I	Simultaneous Sampling	5×5 QFN-32	$5.65
LTC2362	12		500k	72	1	1	3	4	3.3	2.35 to 3.6		SPI		0V to 3.6V	yes	I, H	Industry Standard Pinout	TSOT-6, TSOT-8	$1.85
LTC1278-5	12		500k	70	1	1	4	15	75	5, ±5	yes		yes	0V to 5V, ±2.5V	yes	I		DIP-24, SO(W)-24	$12.65
LTC2302	12		500k	73	1	1	6	9	15	5	yes	SPI		0V to V_{REF}, ±V_{REF}/2	yes	I	Differential Input	3×3 DFN-10	$2.10
LTC2306	12	2	500k	73	1	1	6	9	15	5	yes	SPI		0V to V_{REF}, ±V_{REF}/2	yes	I	Two Single-Ended Inputs	3×3 DFN-10	$2.10
LTC2308	12	8	500k	73	1	1	6	9	17.5	5	yes	SPI	yes	0V to V_{REF}, ±V_{REF}/2	yes	I		4×4 QFN-24	$2.95
LTC1400	12		400k	72	1	1	6	15	75	5, ±5	yes	SPI	yes	0V to 4V, ±2V	yes	I		SO-8	$4.90
LTC1853	12	8	400k	72.5	1	1	6	4	2.25	2.7 to 5.5	yes		yes	0V to V_{REF}, 0V to V_{REF}/2 ±V_{REF}/2, ±V_{REF}/4	yes	I		TSSOP-48	$6.95
LTC1278-4	12		400k	70	1	1	4	15	75	5, ±5	yes		yes	0V to 5V, ±2.5V	yes	I		DIP-24, SO(W)-24	$12.65

† Primary Sort Column
†† Secondary Sort Column
*Simultaneous Sampling

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

ADCs (ALL)

Part Number	† Bits	MUX	†† Speed (sps)	SINAD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC1273A	12		300k	70	0.75	0.5	3	10	75	5			yes	0V to 5V	no			DIP-24, SO(W)-24	$12.35
LTC1275A	12		300k	70	0.75	0.5	3	10	75	±5	yes		yes	±2.5V	no			DIP-24, SO(W)-24	$11.60
LTC1276A	12		300k	70	0.75	0.5	3	10	75	±5	yes		yes	±5V	no			DIP-24, SO(W)-24	$11.60
LTC2361	12		250k	72	1	1	3	4	2.2	2.35 to 3.6		SPI		0V to 3.6V	yes	I, H	Industry Standard Pinout	TSOT-6, TSOT-8	$1.55
LTC1860	12		250k	71	1	1	5mV	20mV	4.25	5		SPI		0V to 5V	yes	I		MSOP-8	$2.30
LTC1861	12	2	250k	71	1	1	5mV	20mV	4.25	5		SPI		0V to 5V	yes	I		MSOP-8	$2.80
LTC1272-3	12		250k	72	1	0.5	3	10	75	5			yes	0V to 5V	no			DIP-24, SO(W)-24	$10.85
LTC1401	12		200k	65	1	1	6	15	15	3		SPI	yes	0V to 2.048V	yes	I		SO-8	$3.15
LTC1863	12	8	200k	73	1	1	3	6	6.5	5	yes	SPI	yes	0V to 4.096V, ±2.048V	yes	I		SSOP-16	$3.85
LTC1863L	12	8	175k	73.1	1	1	3	6	2	3	yes	SPI	yes	0V to 2.5V, ±1.25V	yes	I		SSOP-16	$3.85
LTC1860L	12		150k	72	1	1	5mV	20mV	1.22	3		SPI		0V to 3V	yes	I		MSOP-8, SO-8	$2.75
LTC1861L	12	2	150k	72	1	1	5mV	20mV	1.22	3		SPI		0V to 3V	yes	I		MSOP-8, SO-8	$2.75
LTC1282	12		140k	69	0.75	0.5	3	10	12	3, ±3	yes		yes	0V to 2.5V, ±1.25V	no			DIP-24, SO(W)-24	$13.80
LTC1272-8	12		110k	72	1	0.5	3	10	75	5			yes	0V to 5V	no			DIP-24, SO(W)-24	$7.90
LTC2360	12		100k	72	1	1	3	4	1.5	2.35 to 3.6		SPI		0V to 3.6V	yes	I, H	Industry Standard Pinout	TSOT-6, TSOT-8	$1.25
LTC1857	12	8	100k	74	1	1	6	0.45%	40	5	yes	SPI	yes	0V to 5V,0V to 10V, ±5V,±10V	yes	I	SoftSpan with ±25V Fault Protection	SSOP-28	$8.95
LTC1854	12	8	100k	74	1	1	5	0.45%	40	5	yes	SPI	yes	±10V	yes	I	±30V Fault Protection	SSOP-28	$5.60
LTC1274	12		100k	72.5	1	1	6	20	10	5, ±5	yes		yes	0V to 4V, ±2V	yes	I		SO(W)-24	$7.60
LTC1277	12		100k	72.5	1	1	6	20	10	5, ±5	yes		yes	0V to 4V, ±2V	yes	I		SO(W)-24	$8.00
LTC1292	12		60k		1	0.5	3	0.5	30	5		SPI		0V to 5V	no	I		DIP-8	$14.80
LTC1291	12	2	54k		1	0.5	3	1	30	5		SPI		0V to 5V	yes			DIP-8	$9.40
LTC1290B	12	8	50k		1	0.5	1.5	0.5	30	5, ±5	yes	SPI		0V to 5V, ±5V	yes	I		DIP-20, SO(W)-20	$6.60
LTC1297	12		50k		1	0.5	3	0.5	30	5		SPI		0V to 5V	yes			DIP-8	$17.75
LTC1293	12	6	46k		1	0.5	3	0.5	30	5, ±5	yes	SPI		0V to 5V, ±5V	yes			DIP-16, SO(W)-16	$9.40
LTC1294B	12	8	46k		1	0.5	3	0.5	30	5, ±5	yes	SPI		0V to 5V, ±5V	yes			DIP-20, SO(W)-20	$9.40
LTC1296B	12	8	46k		1	0.5	3	0.5	30	5, ±5	yes	SPI		0V to 5V, ±5V	yes	I		DIP-20, SO(W)-20	$8.35
LTC1287	12		30k		1	0.5	3	0.5	4.5	3		SPI		0V to 3V	no			DIP-8	$17.05
LTC1289B	12	8	25k		1	0.5	1.5	0.5	4.5	3, ±3	yes	SPI		0 to 3V, ±3V	yes			DIP-20, SO(W)-20	$18.15
LTC1594	12	4	16.8k	71	0.75	3	3	8	1.6	5		SPI		0V to 5V	yes	I		SO-16	$5.65
LTC1598	12	8	16.8k	71	0.75	3	3	8	1.6	5		SPI		0V to 5V	yes	I		SSOP-24	$5.80
LTC2301	12	1	14k	73	1	1	6	9	11.5	5	yes	I^2C	yes	0V to V_{REF}, $\pm V_{REF}/2$	yes	I, H	I^2C I/O, One Differential Input	4×3 DFN-12, MSOP-12	$1.95
LTC2305	12	2	14k	73	1	1	6	9	11.5	5	yes	I^2C	yes	0V to V_{REF}, $\pm V_{REF}/2$	yes	I, H	I^2C I/O, Two Single-Ended Inputs	4×3 DFN-12, MSOP-12	$2.10
LTC2309	12	8	14k	73	1	1	6	9	11.5	5	yes	I^2C	yes	0V to V_{REF}, $\pm V_{REF}/2$	yes	I, H	I^2C I/O, Nine Addresses	4×4 QFN-24, TSSOP-20	$2.95
LTC1286	12		12.5k	68	0.75	2	3	8	1.25	4.5 to 9		SPI		0V to 5V	yes	I		DIP-8, SO-8	$5.20
LTC1298	12	2	11.1k	68	0.75	2	3	8	1.7	5		SPI		0V to 5V	yes	I		DIP-8, SO-8	$5.20
LTC1594L	12	4	10.5k	68	0.75	3	3	8	0.48	3		SPI		0V to 3V	yes	I		SO-16	$5.65
LTC1598L	12	8	10.5k	68	0.75	3	3	8	0.48	3		SPI		0V to 3V	yes	I		SSOP-24	$5.80
LTC1285	12		7.5k	67	0.75	2	3	8	0.48	2.7 to 6		SPI		0V to 3V	yes	I		DIP-8, SO-8	$6.35
LTC1288	12	2	6.6k	67	0.75	2	3	8	0.63	2.7 to 6		SPI		0V to 3V	yes	I		DIP-8, SO-8	$6.35
LTC2242-10	10		250M	60.4	0.7	1	17mV	3.5%	740	2.5	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$39.00
LTC2241-10	10		210M	60.5	0.6	0.8	15mV	3.5%	585	2.5	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$32.00
LTC2240-10	10		170M	60.5	0.6	0.8	15mV	3.8%	445	2.5	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$25.00
LTC2230	10		170M	61.2	0.6	1	35mV	2.5%	890	3.3	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$29.20
LTC2231	10		135M	61.2	0.6	0.8	35mV	2.5%	660	3.3	yes		yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$20.00
LTC2234	10		135M	61.2	0.6	0.8	37mV	2.5%	630	3.3	yes		yes	±0.5V to ±1V	yes	I		7×7 QFN-48	$20.00
LTC2281	10		125M	61.6	0.6	0.6	12mV	2.5%	790	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$18.00
LTC2251	10		125M	61.5	0.6	0.6	12mV	2.5%	395	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$12.00
LTC2280	10		105M	61.6	0.6	0.6	12mV	2.5%	540	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$11.25
LTC2250	10		105M	61.6	0.6	0.6	12mV	2.5%	320	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$7.50
LTC2232	10		105M	61.3	0.6	0.8	37mV	2.5%	475	3.3	yes		yes	±0.5V to ±1V	yes	I		7×7 QFN-48	$8.35
LTC2233	10		80M	61.3	0.6	0.8	37mV	2.5%	366	3.3	yes		yes	±0.5V to ±1V	yes	I		7×7 QFN-48	$6.70
LTC2239	10		80M	61.6	0.5	0.5	12mV	2.5%	211	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$6.70
LTC2289	10		80M	61.6	0.5	0.6	12mV	2.5%	422	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$10.05
LTC2238	10		65M	61.8	0.5	0.5	12mV	2.5%	205	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$5.00
LTC2288	10		65M	61.8	0.5	0.5	12mV	2.5%	400	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$7.50
LTC2237	10		40M	61.8	0.5	0.5	12mV	2.5%	120	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$4.80
LTC2287	10		40M	61.8	0.5	0.5	12mV	2.5%	235	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$7.20
LTC2236	10		25M	61.8	0.5	0.5	12mV	2.5%	75	3	yes		yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$3.50

† Primary Sort Column
†† Secondary Sort Column
*Simultaneous Sampling

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	MUX	†† Speed (sps)	SINAD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC2286	10		25M	61.8	0.5	0.5	12mV	2.5%	150	3	yes		yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$5.25
LTC1850	10	8	1.25M		0.5	0.5	2	2	50	5	yes		yes	0V to V_{REF}, 0V to V_{REF}/2, ±V_{REF}/2, ±V_{REF}/4	yes	I		TSSOP-48	$5.95
LTC1197	10		500k	60	1	1	2	4	22.5	4 to 9		SPI			yes	I		MSOP-8, SO-8	$2.45
LTC1199	10	2	450k	60	1	1	2	4	25	4 to 6		SPI		0V to 6V	yes	I		MSOP-8, SO-8	$2.45
LTC1852	10	8	400k		1	1	2	2	2.25	2.7 to 5.5	yes		yes	0V to V_{REF}, 0V to V_{REF}/2 ±V_{REF}/2, ±V_{REF}/4	yes	I		TSSOP-48	$5.95
LTC1197L	10		250k	58	1	1	2	4	2.2	2.7 to 4		SPI		0V to 3V	yes	I		MSOP-8, SO-8	$2.45
LTC1199L	10	2	210k		1	1	2	4	2.2	2.7 to 4		SPI		0V to 3V	yes	I		MSOP-8, SO-8	$2.45
LTC1092	10		38k		1	0.5	0.5	1	5	4.5 to 10		SPI		0V to 10V	no	C(1)		DIP-8	$9.45
LTC1091	10	2	31k		1	0.5	0.5	1	7.5	4.5 to 10		SPI		0V to 10V	no	C(1)		DIP-8	$9.45
LTC1090	10	8	30k		1	0.5	0.5	1	5	4.5 to 10, -5	yes	SPI		0V to 10V, ±5V	no	C(1)		DIP-20, SO(W)-20	$9.45
LTC1093	10	6	26k		1	0.5	0.5	1	5	4.5 to 10, -5	yes	SPI		0V to 10V, ±5V	no	C(1)		DIP-16, SO(W)-16	$9.45
LTC1094	10	8	26K		1	0.5	0.5	1	5	4.5 to 10, -5	yes	SPI		0V to 10V, ±5V	no	C(1)		DIP-20	$9.45
LTC1392	10	2	25k		1	1	4	15	3.5	5		SPI		0V to 0.5V, 0V to 1V	yes	I	Temp. Sensor	DIP-8, SO-8	$3.95
LTC1283	10	8	15k		1	0.5	0.5	1	1.15	3.3, ±3	yes	SPI		0V to 3.3V, ±3.3V	no			DIP-20, SO(W)-20	$10.90
LTC1406	8		20M	47.5	1	1	8	5	150	5	yes		yes	0V to 2V, ±1V	yes	I		SSOP-24	$3.20
LTC1196	8		1M	45	1	0.5	0.5	0.5	55	2.7 to 6		SPI		0V to 6V	yes			SO-8	$2.40
LTC1198	8	2	750k	45	1	0.5	0.5	0.5	55	2.7 to 6		SPI		0V to 6V	yes			SO-8	$2.90
LTC1099	8		400k		1	0.5	0.5	0.5	55	5				0V to 6V	no	I		DIP-20, SO(W)-20	$8.05
LTC1096	8		33k		1	0.5	0.5	0.5	0.6	3 to 9		SPI		0V to 6V	yes	I		DIP-8, SO-8	$2.85
LTC1098	8	2	33k		1	0.5	0.5	0.5	0.78	3 to 6		SPI		0V to 6V	yes	I		DIP-8, SO-8	$2.85
LTC1096L	8		17k		1	1	1	1	0.36	2.65 to 4		SPI		0V to 3V	yes	I		DIP-8, SO-8	$3.10
LTC1098L	8	2	16.5k		1	1	1	1	0.47	2.65 to 4		SPI		0V to 3V	yes	I		DIP-8, SO-8	$3.10

† Primary Sort Column
†† Secondary Sort Column
*Simultaneous Sampling

Note:

1. Specified for –40°C ≤ T_A ≤ 85°C operation with C temperature code

GENERAL PURPOSE ADCs

Part Number	† Bits	MUX	†† Speed (sps)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	SINAD (dB)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1608A	16		500k	1	2	0.130%	0.25%	270	±5	90	yes		yes	±2.5V	yes		SSOP-36	$16.50
LTC1604A	16		333k	1	2	0.130%	0.25%	220	±5	90	yes		yes	±2.5V	yes	I	SSOP-36	$20.50
LTC1603	16		250k	1	3	0.13%	0.25%	220	±5	90	yes		yes	±2.5V	yes	I	SSOP-36	$9.95
LTC1864A	16		250k	2	6	5	20	4.25	5	83		yes		0V to 5V	yes	I	MSOP-8, SO-8	$5.95
LTC1865A	16	2	250k	2	6	5	20	4.25	5	83		yes		0V to 5V	yes	I	MSOP-8, SO-8	$6.45
LTC1606A	16		250k	1	2	10mV	0.25%	75	5	90	yes		yes	±10V	no	I	SSOP-28, SO(W)-28	$19.50
LTC1609A	16		200k	1	2	10mV	0.25%	65	5	87.5	yes	yes	yes	0V to 5V, 0V to 10V, 0V to 4V, ±10V, ±5V, ±3.3V	yes	I	SSOP-28, SO(W)-20	$14.95
LTC1867A	16	8	200k	–1 to 1.75	2	32	64	6.5	5	88	yes	yes	yes	0V to 4.096V,±2.048V	yes	I	SSOP-16	$7.75
LTC1867LA	16	8	175k	–1 to 1.75	3	32	64	2	3	83	yes	yes	yes	0V to 2.5V, ±1.25V	yes	I	SSOP-16	$7.75
LTC1864LA	16		150k	2	6	5mV	20mV	1.95	3	82		yes		0V to 3V	yes	I	MSOP-8, SO-8	$5.95
LTC1865LA	16	2	150k	2	6	5mV	20mV	1.22	3	82		yes		0V to 3V	yes	I	MSOP-8, SO-8	$6.45
LTC1605A	16		100k	1	2	10mV	0.25%	55	5	87	yes		yes	±10V	no	I	DIP-28, SSOP-28, SO(W)-28	$17.00
LTC1605-1	16		100k	2	3	10mV	0.5%	55	5	87			yes	0V to 4V	no	I	DIP-28/SSOP-28, SO(W)-28	$17.00
LTC1605-2	16		100k	2	3	10mV	0.5%	55	5	87	yes		yes	±4V	no	I	DIP-28, SSOP-28, SO(W)-28	$17.00
LTC1859	16	8	100k	–2 to 4	3	25	0.2%	40	5	87	yes	yes	yes	0V to 5V, 0V to 10V, ±5V, ±10V	yes	I	SSOP-28	$17.95
LTC1856	16	8	100k	–2 to 4	3	23	0.1%	40	5	87	yes	yes	yes	±10V	yes	I	SSOP-28	$12.95
LTC2355-14	14		3.5M	1	4	20	60	18	3.1 to 3.6	74.2		yes	yes	0V to 2.5V	yes	I	MSOP-10	$7.95
LTC2356-14	14		3.5M	1	4	20	60	18	3.1 to 3.6	74.2	yes	yes	yes	±1.25V	yes	I	MSOP-10	$7.95
LTC1407A	14	2*	3M	1	4	20	60	12	3	73.5		yes	yes	0V to 2.5V	yes	I, H	MSOP-10	$7.00
LTC1407A-1	14	2*	3M	1	4	20	60	12	3	73.5	yes	yes	yes	±1.25V	yes	I	MSOP-10	$7.00
LTC1403A	14		2.8M	1	4	20	60	12	3	73.5		yes	yes	0V to 2.5V	yes	I, H	MSOP-10	$7.00

† Primary Sort Column
†† Secondary Sort Column
* Simultaneous Sampling

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

GENERAL PURPOSE ADCs

Part Number	† Bits	MUX	†† Speed (sps)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	SINAD (dB)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1403A-1	14		2.8M	1	4	20	60	12	3	73.5	yes	yes	yes	±1.25V	yes	I	MSOP-10	$7.00
LTC1411	14		2.5M	1	1	24	60	195	5	80	yes		yes	±0.64V to ±1.8V	yes	I	SSOP-36	$18.00
LTC1414	14		2.2M	1.75	2	20	60	175	±5	78	yes		yes	±2.5V	no	I	SSOP-28	$16.00
LTC2351-14	14	6*	1.5M	1	3	4.5mV	12mV	16.5	3	75	yes	yes	yes	0V to 2.5V or ±1.25V	yes	I, H	5×5 QFN-32	$9.45
LTC1419A	14		800k	1	1.25	20	60	150	±5	81.5	yes		yes	±2.5V	yes	I	SSOP-28, SO(W)-28	$15.15
LTC1408	14	6*	600k	1	3	4.5mV	12mV	15	3	76	yes	yes	yes	0V to 2.5V or ±1.25V	yes	I	5×5 QFN-32	$8.95
LTC1416	14		400k	1.5	2	20	40	70	±5	80	yes		yes	±2.5V	yes	I	SSOP-28	$6.90
LTC1417A	14		400k	1	1.25	10	15	20	5, ±5	82	yes	yes	yes	0V to 4V, ±2V	yes	I	SSOP-16	$7.60
LTC1418A	14		200k	1	1.25	10	15	15	5, ±5	81.5	yes	Ser/Par	yes	0V to 4V, ±2V	yes	I	DIP-28, SSOP-28, SO(W)-28	$7.90
LTC1858	14	8	100k	–1 to 1.5	1.5	15	0.25%	40	5	83	yes	yes	yes	0V to 5V, 0V to 10V, ±5V, ±10V	yes	I	SSOP-28	$12.95
LTC1855	14	8	100k	–1 to 1.5	1.5	8	0.40%	40	5	83	yes	yes	yes	±10V	yes	I	SSOP-28	$7.95
LTC2355-12	12		3.5M	1	2	10	30	18	3.1 to 3.6	71.1		yes	yes	0V to 2.5V	yes	I	MSOP-10	$4.95
LTC2356-12	12		3.5M	1	2	10	30	18	3.1 to 3.6	71.1	yes	yes	yes	±1.25V	yes	I	MSOP-10	$4.95
LTC2366	12		3M	1	1	3	4	7.8	2.35 to 3.6	72		yes		0V to 3.6V	yes	I, H	TSOT-6, TSOT-8	$4.95
LTC1407	12	2*	3M	1	2	10	30	12	3	70.5		yes	yes	0V to 2.5V	yes	I, H	MSOP-10	$4.00
LTC1407-1	12	2*	3M	1	2	10	30	12	3	70.5	yes	yes	yes	±1.25V	yes	I	MSOP-10	$4.00
LTC1412	12		3M	1	1	6	15	150	±5	72	yes		yes	±2.5V	no	I	SSOP-28	$9.95
LTC1403	12		2.8M	1	2	10	30	12	3	70.5		yes	yes	0V to 2.5V	yes	I, H	MSOP-10	$4.00
LTC1403-1	12		2.8M	1	2	10	30	12	3	70.5	yes	yes	yes	±1.25V	yes	I	MSOP-10	$4.00
LTC1402	12		2.2M	1	1	10	15	90	5, ±5	72	yes	yes	yes	0V to 4V, ±2V	yes	I	SSOP-16	$6.95
LTC2351-12	12	6*	1.5M	1	3	4.5mV	12mV	16.5	3	72	yes	yes	yes	0V to 2.5V or ±1.25V	yes	I, H	5×5 QFN-32	$5.95
LTC1410	12		1.25M	1	1	6	15	160	±5	71	yes		yes	±2.5V	yes	I	SSOP-28, SO(W)-28	$9.90
LTC1415	12		1.25M	1	1	6	20	55	5	69			yes	0V to 4V	yes	I	SSOP-28, SO(W)-28	$9.90
LTC1851	12	8	1.25M	1	1	7	6	50	5	70	yes		yes	0V to V_{REF}, 0V to V_{REF}/2, ±V_{REF}/2, ±V_{REF}/4	yes	I	TSSOP-48	$6.95
LTC2365	12		1M	1	1	3	4	6	2.35 to 3.6	72		yes		0V to 3.6V	yes	I, H	TSOT-6, TSOT-8	$2.15
LTC1409	12		800k	1	1	6	15	80	±5	72.5	yes		yes	±2.5V	yes	I	SSOP-28, SO(W)-28	$9.90
LTC1408-12	12	6*	600k	1	3	4.5mV	12mV	15	3	72	yes	yes	yes	0V to 2.5V or ±1.25V	yes	I	5×5 QFN-32	$5.65
LTC1279	12		600k	1	1	4	15	60	5, ±5	70	yes		yes	0V to 5V, ±2.5V	yes	I	SSOP-24, SO(W)-24	$13.00
LTC1404	12		600k	1	1	6	15	75	5, ±5	72	yes	yes	yes	0V to 4V, ±2V	yes	I	SO-8	$5.10
LTC2362	12		500k	1	1	3	4	3.3	2.35 to 3.6	72		yes		0V to 3.6V	yes	I, H	TSOT-6, TSOT-8	$1.85
LTC2302	12		500k	1	1	6	9	15	5	73	yes	yes		0V to V_{REF}, ±V_{REF}/2	yes	I	3×3 DFN-10	$2.10
LTC2306	12	2	500k	1	1	6	9	15	5	73	yes	yes		0V to V_{REF}, ±V_{REF}/2	yes	I	3×3 DFN-10	$2.10
LTC2308	12	8	500k	1	1	6	9	17.5	5	73	yes	yes	yes	0V to V_{REF}, ±V_{REF}/2	yes	I	4×4 QFN-24	$2.95
LTC1278-5	12		500k	1	1	4	15	75	5, ±5	70	yes		yes	0V to 5V, ±2.5V	yes	I	DIP-24, SO(W)-24	$12.65
LTC1278-4	12		400k	1	1	4	15	75	5, ±5	70	yes		yes	0V to 5V, ±2.5V	yes	I	DIP-24, SO(W)-24	$12.65
LTC1400	12		400k	1	1	6	15	75	5, ±5	72	yes	yes	yes	0V to 4V, ±2V	yes	I	SO-8	$4.90
LTC1853	12	8	400k	1	1	6	4	4	2.7 to 5.5	72.5	yes		yes	0V to V_{REF}, 0V to V_{REF}/2, ±V_{REF}/2, ±V_{REF}/4	yes	I	TSSOP-48	$6.95
LTC1273A	12		300k	0.75	0.5	3	15	75	5, ±5	70			yes	0V to 5V	no		DIP-24, SO(W)-24	$12.35
LTC1275A	12		300k	0.75	0.5	3	15	75	±5	70	yes		yes	±2.5V	no		DIP-24, SO(W)-24	$11.60
LTC1276A	12		300k	0.75	0.5	3	15	75	±5	70	yes		yes	±5V	no		DIP-24, SO(W)-24	$11.60
LTC1860	12		250k	1	1	5mV	20mV	4.25	5	71		yes		0V to 5V	yes	I	MSOP-8, SO-8	$2.30
LTC2361	12		250k	1	1	3	4	2.2	2.35 to 3.6	72		yes		0V to 3.6V	yes	I, H	TSOT-6, TSOT-8	$1.55
LTC1861	12	2	250k	1	1	5mV	20mV	4.25	5	71		yes		0V to 5V	yes	I	MSOP-8, SO-8	$2.80
LTC1272-3	12		250k	1	0.5	3	10	75	5	72			yes	0V to 5V	no		DIP-24, SO(W)-24	$10.85
LTC1401	12		200k	1	1	6	15	15	3	65		yes	yes	0V to 2.048V	yes	I	SO-8	$3.15
LTC1863	12	8	200k	1	1	3	6	6.5	5	73	yes	yes	yes	0V to 4.096V, ±2.048V	yes	I	SSOP-16	$3.85
LTC1863L	12	8	175k	1	1	3	6	2	3	73.1	yes	yes	yes	0V to 2.5V, ±1.25V	yes	I	SSOP-16	$3.85
LTC1860L	12		150k	1	1	5mV	20mV	1.95	3	72		yes		0V to 3V	yes	I	MSOP-8, SO-8	$2.75
LTC1861L	12	2	150k	1	1	5mV	20mV	1.22	3	72		yes		0V to 3V	yes	I	MSOP-8, SO-8	$2.75
LTC1282	12		140k	0.75	0.5	3	10	12	3, ±3	69	yes		yes	0V to 2.5V, ±1.25V	no		DIP-24, SO(W)-24	$13.80
LTC1272-8	12		110k	1	0.5	3	10	75	5	72			yes	0V to 5V	no		DIP-24, SO(W)-24	$7.90
LTC2360	12		100k	1	1	3	4	1.5	2.35 to 3.6	72		yes		0V to 3.6V	yes	I, H	TSOT-6, TSOT-8	$1.25

† Primary Sort Column
†† Secondary Sort Column
* Simultaneous Sampling

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	MUX	†† Speed (sps)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	SINAD (dB)	Bipolar Input	Serial I/O	Internal Reference	Input Span	Shutdown	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1274	12		100k	1	1	6	20	10	5, ±5	72.5	yes		yes	0V to 4V, ±2V	yes	I	SO(W)-24	$7.60
LTC1277	12		100k	1	1	6	20	10	5, ±5	72.5	yes		yes	0V to 4V, ±2V	yes	I	SO(W)-24	$8.00
LTC1857	12	8	100k	1	1	6	0.45%	40	5	74	yes	yes	yes	0V to 5V, 0V to 10V, ±5V, ±10V	yes	I	SSOP-28	$8.95
LTC1854	12	8	100k	1	1	5	0.45%	40	5	74	yes	yes	yes	±10V	yes	I	SSOP-28	$5.60
LTC1292	12		60k	1	0.5	3	0.5	30	5			yes		0V to 5V	no	I	DIP-8	$14.80
LTC1291	12	2	54k	1	0.5	3	1	30	5			yes		0V to 5V	yes		DIP-8	$9.40
LTC1290B	12	8	50k	1	0.5	1.5	0.5	30	5, ±5		yes	yes		0V to 5V, ±5V	yes	I	DIP-20, SO(W)-20	$6.60
LTC1297	12		50k	1	0.5	3	0.5	30	5			yes		0V to 5V	yes		DIP-8	$17.75
LTC1293	12	6	46k	1	0.5	3	0.5	30	5, ±5		yes	yes		0V to 5V, ±5V	yes		DIP-16, SO(W)-16	$9.40
LTC1294B	12	8	46k	1	0.5	3	0.5	30	5, ±5		yes	yes		0V to 5V, ±5V	yes		DIP-20, SO(W)-20	$9.40
LTC1296B	12	8	46k	1	0.5	3	0.5	30	5, ±5		yes	yes		0V to 5V, ±5V	yes	I	DIP-20, SO(W)-20	$8.35
LTC1287	12		30k	1	0.5	3	0.5	4.5	3			yes		0V to 3V	no		DIP-8	$17.05
LTC1289B	12	8	25k	1	0.5	1.5	0.5	4.5	3, ±3		yes	yes		0V to 3V, ±3V	yes		DIP-20, SO(W)-20	$18.15
LTC2301	12	1	14k	1	1	6	9	11.5	5	73	yes	I^2C	yes	0V to V_{REF}, $\pm V_{REF}/2$	yes	I	4×3 DFN-12, MSOP-12	$1.95
LTC2305	12	2	14k	1	1	6	9	11.5	5	73	yes	I^2C	yes	0V to V_{REF}, $\pm V_{REF}/2$	yes	I	4×3 DFN-12, MSOP-12	$2.10
LTC2309	12	8	14k	1	1	6	9	11.5	5	73	yes	I^2C	yes	0V to V_{REF}, $\pm V_{REF}/2$	yes	I	4×4 QFN-24, TSSOP-20	$2.95
LTC1594	12	4	16.8k	0.75	3	3	8	1.6	5	71		yes		0V to 5V	yes	I	SO-16	$5.65
LTC1598	12	8	16.8k	0.75	3	3	8	1.6	5	71		yes		0V to 5V	yes	I	SSOP-24	$5.80
LTC1286	12		12.5k	0.75	2	3	8	1.25	4.5 to 9	68		yes		0V to 5V	yes	I	DIP-8, SO-8	$5.20
LTC1298	12	2	11.1k	0.75	2	3	8	1.7	5	68		yes		0V to 5V	yes	I	DIP-8, SO-8	$5.20
LTC1594L	12	4	10.5k	0.75	3	3	8	0.48	3	68		yes		0V to 3V	yes	I	SO-16	$5.65
LTC1598L	12	8	10.5k	0.75	3	3	8	0.48	3	68		yes		0V to 3V	yes	I	SSOP-24	$5.80
LTC1285	12		7.5k	0.75	2	3	8	0.48	2.7 to 6	67		yes		0V to 3V	yes	I	DIP-8, SO-8	$6.35
LTC1288	12	2	6.6k	0.75	2	3	8	0.63	2.7 to 6	67		yes		0V to 3V	yes	I	DIP-8, SO-8	$6.35
LTC1850	10	8	1.25M	0.5	0.5	2	2	50	5		yes		yes	0V to V_{REF}, 0V to $V_{REF}/2$, $\pm V_{REF}/2$, $\pm V_{REF}/4$	yes	I	TSSOP-48	$5.95
LTC1197	10		500k	1	1	2	4	22.5	4 to 9	60		yes		0V to 6V	yes	I	MSOP-8, SO-8	$2.45
LTC1199	10	2	450k	1	1	2	4	25	4 to 6	60		yes		0V to 6V	yes	I	MSOP-8, SO-8	$2.45
LTC1852	10	8	400k	1	1	2	2	2.25	2.7 to 5.5	72.5	yes		yes	0V to V_{REF}, 0V to $V_{REF}/2$, $\pm V_{REF}/2$, $\pm V_{REF}/4$	yes	I	TSSOP-48	$5.95
LTC1197L	10		250k	1	1	2	4	2.2	2.7 to 4	58		yes		0V to 3V	yes	I	MSOP-8, SO-8	$2.45
LTC1199L	10	2	210k	1	1	2	4	2.2	2.7 to 4	58		yes		0V to 3V	yes	I	MSOP-8, SO-8	$2.45
LTC1092	10		38k	1	0.5	0.5	1	5	4.5 to 10			yes		0V to 10V	no	C[1]	DIP-8	$9.45
LTC1091	10	2	31k	1	0.5	0.5	1	7.5	4.5 to 10			yes		0V to 10V	no	C[1]	DIP-8	$9.45
LTC1090	10	8	30k	1	0.5	0.5	1	5	4.5 to 10, ±5		yes	yes		0V to 10V, ±5V	no	C[1]	DIP-20, SO(W)-20	$9.45
LTC1093	10	6	26k	1	0.5	0.5	1	5	4.5 to 10, ±5		yes	yes		0V to 10V, ±5V	no	C[1]	DIP-16, SO(W)-16	$9.45
LTC1094	10	8	26k	1	0.5	0.5	1	5	4.5 to 10, ±5		yes	yes		0V to 10V, ±5V	no	C[1]	DIP-20, SO(W)-20	$9.45
LTC1392	10	2	25k	1	1	4	15	3.5	5			yes		0V to 0.5V or 0V to 1V	yes	I	DIP-8, SO-8	$3.95
LTC1283	10	8	15k	1	0.5	0.5	1	1.15	3.3, ±3.3		yes	yes		0V to 3.3V, ±3.3V			DIP-20, SO(W)-20	$10.90
LTC1196	8		1M	1	0.5	0.5	0.5	55	2.7 to 6	45		yes		0V to 6V	yes		SO-8	$2.40
LTC1198	8	2	750k	1	0.5	0.5	0.5	55	2.7 to 6	45		yes		0V to 6V	yes		SO-8	$2.90
LTC1099	8		400k	1	0.5	0.5	0.5	55	5					0V to 5V	no	I	DIP-20, SO(W)-20	$8.05
LTC1096	8		33k	1	0.5	0.5	0.5	0.6	3 to 9			yes		0V to 6V	yes	I	DIP-8, SO-8	$2.85
LTC1098	8	2	33k	1	0.5	0.5	0.5	0.78	3 to 6			yes		0V to 6V	yes	I	DIP-8, SO-8	$2.85
LTC1096L	8		17k	1	1	1	1	0.36	3			yes		0V to 3V	yes	I	DIP-8, SO-8	$3.10
LTC1098L	8	2	16.5k	1	1	1	1	0.47	3			yes		0V to 3V	yes	I	DIP-8, SO-8	$3.10

† Primary Sort Column
†† Secondary Sort Column
* Simultaneous Sampling

Note:

1. Specified for –40°C ≤ TA ≤ 85°C operation with C temperature code

Part Number	† Bits	ADC	MUX	†† Speed (Msps)	SINAD (dB)	SFDR (dB)	THD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Latency (Clocks)	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC2209#3CD	16			185	76.5	96		1		19mV	2.5%	1900	3.6	yes		7	yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	C.F.
LTC2209#3BC	16			180	76.5	96		1		15mV	2.0%	1700	3.6	yes		7	yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	C.F.
LTC2209	16			160	77.1	100		1	5	10mV	2%	1450	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$72.50
LTC2208	16			130	77.7	100		1	4.5	8.5mV	1.5%	1250	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$65.00
LTC2217	16			105	81.2	100		1	4	6mV	1.0%	1190	3.3	yes		7	yes	±1.375V	yes	I	Low Noise	9×9 QFN-64	$68.00
LTC2274	16			105	77.5	100		1	4.5	8.5mV	1.5%	1300	3.3	yes	yes	9	yes	±0.75V to ±1.125V	yes	I	High Speed Serial Outputs	6×6 QFN-40	$68.00
LTC2207	16			105	77.9	100		1	4.5	8.5mV	1.5%	900	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$56.67
LTC2216	16			80	81.3	100		1	3.5	6mV	1.0%	970	3.3	yes		7	yes	±1.375V	yes	I	Low Noise	9×9 QFN-64	$58.00
LTC2206	16			80	77.9	100		1	4.5	8.5mV	1.5%	725	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$48.33
LTC2273	16			80	77.5	100		1	4.5	8.5mV	1.5%	1100	3.3	yes	yes	9	yes	±0.75V to ±1.125V	yes	I	High Speed Serial Output	6×6 QFN-40	$58.00
LTC2215	16			65	81.5	100		1	3.5	6mV	1.0%	700	3.3	yes		7	yes	±1.375V	yes	I	Low Noise	9×9 QFN-64	$52.00
LTC2205	16			65	79	100		1	4.5	8.5mV	1.9%	610	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$43.33
LTC2272	16			65	77.5	100		1	4.5	8.5mV	1.5%	980	3.3	yes	yes	9	yes	±0.75V to ±1.125V	yes	I	High Speed Serial Output	6×6 QFN-40	$52.00
LTC2204	16			40	79.1	100		1	4.5	8.5mV	1.9%	480	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$35.00
LTC2203	16			25	81.6	100		1	4.5	10mV	1.5%	220	3.3	yes		7	yes	±0.834V to ±1.25V	yes	I	Single Ended Clock	7×7 QFN-48	$30.00
LTC2202	16			10	81.6	100		1	4.5	10mV	1.5%	140	3.3	yes		7	yes	±0.834V to ±1.25V	yes	I	Single Ended Clock	7×7 QFN-48	$25.00
LTC2262-14	**14**			**150**	**72.5**	**88**		**1**	**3.75**	**9mV**	**1.5%**	**149**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**C.F.**
LTC2285#3CG	**14**			**135**	**72.2**	**88**		**0.6**	**1.5**	**12mV**	**2.5%**	**954**	**3.3**	**yes**		**5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**Dual ADC**	**9×9 QFN-64**	**C.F.**
LTC2208-14	14			130	77.0	98		0.5	1.5	11mV	2.3%	1320	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$55.00
LTC2285	14	2		125	72.2	88		0.6	1.5	12mV	2.5%	790	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$73.50
LTC2255	14			125	72.2	88		1	5	12mV	2.5%	395	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$49.00
LTC2261-14	14			125	73	88		0.9	3.75	9mV	1.5%	127	1.8	yes		5.5	yes	±0.5V to ±1V	yes	I	DDR (LVDS and CMOS) Outputs	6×6 QFN-40	$52.00
LTC2207-14	14			105	77	100		1	1.5	10.3mV	2.3%	947	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$45.00
LTC2254	14			105	72.4	88		1	5.5	12mV	2.5%	320	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$41.00
LTC2260-14	14			105	73	88		0.9	3.75	9mV	1.5%	104	1.8	yes		5.5	yes	±0.5V to ±1V	yes	I	DDR (LVDS and CMOS) Outputs	6×6 QFN-40	$44.00
LTC2284	14	2		105	72.2	88		0.6	1.5	12mV	2.5%	540	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$61.50
LTC2206-14	14			80	77	100		1	1.5	10.3mV	2.3%	762	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	7×7 QFN-48	$33.00
LTC2249	14			80	72.9	90		1	4	12mV	2.5%	222	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$25.00
LTC2259-14	14			80	73	88		0.9	3.5	9mV	1.5%	87	1.8	yes		5.5	yes	±0.5V to ±1V	yes	I	DDR (LVDS and CMOS) Outputs	6×6 QFN-40	$28.00
LTC1748	14			80	76.3	90	90	1.5	3			1.4W	5	yes		5	yes	±1V to ±1.6V		I		TSSOP-48	$32.30
LTC1750	14			80	75.5	90	90	1.5	3			1.4W	5	yes		5	yes	±0.7V to ±1.125V		I	Undersampling to 500MHz	TSSOP-48	$32.30
LTC2299	14	2		80	72.9	90		1	5	12mV	2.5%	444	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$37.50
LTC2205-14	14			65	78.2	98		1	1.5	8.5mV	1.9%	597	3.3	yes		7	yes	±0.75V to ±1.125V	yes	I	CMOS Outputs	9×9 QFN-64	$28.00
LTC2248	14			65	74.3	90		1	4	12mV	2.5%	205	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$23.35
LTC2258-14	**14**			**65**	**73.8**	**88**		**0.9**	**3.75**	**9mV**	**1.5%**	**81**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**DDR (LVDS & CMOS) Outputs**	**6×6 QFN-40**	**$25.35**
LTC1742	14			65	76.5	90	90	1	3			1.275W	5	yes		5	yes	±1V to ±1.6V		I		TSSOP-48	$24.65
LTC2298	14	2		65	74.3	90		1	5	12mV	2.5%	400	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$35.03
LTC1744	14			50	77	87	90	1.5	4	20	3	1.5W	5	yes		5	yes	±1V to ±1.6V		I		TSSOP-48	$25.00
LTC2247	14			40	74.4	90		1	4	12mV	2.5%	120	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$15.85
LTC2257-14	**14**			**40**	**73.2**	**88**		**0.9**	**3.75**	**9mV**	**1.5%**	**49**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**DDR (LVDS & CMOS) Outputs**	**6×6 QFN-40**	**$17.85**
LTC2297	14	2		40	74.4	90		1	5	12mV	2.5%	235	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$23.78
LTC2246	14			25	74.5	90		1	4	12mV	2.5%	75	3	yes		5	yes	±0.5V to ±1V	yes	I, H	CMOS Outputs	5×5 QFN-32, 7×7 LQFP-48	$12.50
LTC2256-14	**14**			**25**	**72.8**	**88**		**0.9**	**3.5**	**9mV**	**1.5%**	**35**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**DDR (LVDS & CMOS) Outputs**	**6×6 QFN-40**	**$14.50**
LTC1746	14			25	77.5	96	92	1	3			465	5	yes		5	yes	±1V to ±1.6V		I		TSSOP-48	$12.75
LTC2296	14	2		25	74.5	90		1	5	12mV	2.5%	150	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$18.75
LTC2245	14			10	74.4	90		1	4	12mV	2.5%	60	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$10.83

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	ADC	MUX	†† Speed (Msps)	SINAD (dB)	SFDR (dB)	THD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Latency (Clocks)	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC2295	14	2		10	74.4	90		1	5	12mV	2.5%	120	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$17.00
LTC1740	14			6	79.1	92	90	1.25	2.5			300	±5 or 5	yes		3	yes	±2.5V, ±1.25V, ±V_{REF}/1.8		I		TSSOP-36	$17.20
LTC1407A	14		2	3	73.5	90	90	1	4			12	3		yes	2	yes	0V to 2.5V	yes	I	Simultaneous Sampling	MSOP-10	$7.00
LTC1407A-1	14		2	3	73.5	90	90	1	4			12	3	yes	yes	2	yes	±1.25V	yes	I	Simultaneous Sampling	MSOP-10	$7.00
LTC1403A	14			2.8	73.5	90	90	1	4			12	3		yes	2	yes	0V to 2.5V	yes	I, H	H-Grade Temp Available	MSOP-10	$7.00
LTC1403A-1	14			2.8	73.5	90	90	1	4			12	3	yes	yes	2	yes	±1.25V	yes	I		MSOP-10	$7.00
LTC1411	14			2.5	80		88	1	1	24	60	195	5	yes		1	yes	±0.64V to ±1.8V	yes	I		SSOP-36	$18.00
LTC1414	14			2.2	78	84	83	1.75	2	20	60	150	±5	yes		1	yes	±2.5V		I		SSOP-28	$16.00
LTC2242-12	12			250	65.3	78		1	2.7	17mV	3.2%	740	2.5	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$59.00
LTC2241-12	12			210	65.4	78		1	2.3	15mV	3.4%	585	2.5	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$42.00
LTC2220-1	12			185	67.5	80		1.2	1.8	35mV	2.5%	910	3.3	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$49.00
LTC2240-12	12			170	65.5	80		1	2.1	15mV	3.5%	445	2.5	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$35.00
LTC2220	12			170	67.5	84		1	1.5	35mV	2.5%	890	3.3	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$39.55
LTC2262-12	**12**			**150**	**70.4**			**1**	**1**	**9mV**	**1.5%**	**146**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**Ultralow Power, 1.8V ADC, DDR CMOS and DDR LVDS Outputs**	**6×6 QFN-40**	**C.F.**
LTC2221	12			135	67.6	84		1	1	35mV	2.5%	660	3.3	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$33.92
LTC2224	12			135	67.4	84		1	1	35mV	2.5%	630	3.3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	7×7 QFN-48	$33.92
LTC2283	12	2		125	69.8	88		1	1.5	12mV	2.5%	790	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$41.25
LTC2253	12			125	69.8	88		0.7	1.5	12mV	2.5%	395	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$27.50
LTC2261-12	12			125	71	88		0.4	1	9mV	1.5%	127	1.8	yes		5.5	yes	±0.5V to ±1V	yes	I	DDR (LVDS and CMOS) Outputs	6×6 QFN-40	$29.50
LTC2252	12			105	70.1	88		0.7	1.5	12mV	2.5%	320	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$23.00
LTC2260-12	12			105	71	88		0.4	1	9mV	1.5%	104	1.8	yes		5.5	yes	±0.5V to ±1V	yes	I	DDR (LVDS and CMOS) Outputs	6×6 QFN-40	$25.00
LTC2222	12			105	68.4	84		1	1.3	30mV	2.5%	475	3.3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	7×7 QFN-48	$29.92
LTC2282	12	2		105	70	88		0.9	1.5	12mV	2.5%	540	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$34.50
LTC2223	12			80	68.5	84		0.8	1	30mV	2.5%	366	3.3	yes		5	yes	±0.5V to ±1V	yes	I	14-Bit Upgrade Path	7×7 QFN-48	$16.70
LTC2229	12			80	70.6	90		0.8	1.1	12mV	2.5%	211	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$16.70
LTC2259-12	12			80	70	88		0.4	1	9mV	1.5%	87	1.8	yes		5.5	yes	±0.5V to ±1V	yes	I	DDR (LVDS and CMOS) Outputs	6×6 QFN-40	$18.70
LTC1747	12			80	72	87	85	0.8	1			1.4W	5	yes		5	yes	±1V to ±1.6V		I		TSSOP-48	$19.55
LTC1749	12			80	71.8	87	87	0.8	1			1.4W	5	yes		5	yes	±0.7V to ±1.125V		I	Undersampling to 500MHz	TSSOP-48	$19.55
LTC2294	12	2		80	70.6	90		0.8	1.4	12mV	2.5%	422	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$25.05
LTC2228	12			65	71.3	90		0.8	1.1	12mV	2.5%	205	3	yes		5	yes	±0.5V to ±1V	yes	I	14-Bit Upgrade Path	5×5 QFN-32	$12.08
LTC2258-12	**12**			**65**	**71**	**88**		**0.4**	**1**	**9mV**	**1.5%**	**79**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**DDR (LVDS & CMOS) Outputs**	**6×6 QFN-40**	**$14.08**
LTC1741	12			65	72	87	85	0.8	1			1.275W	5	yes		5	yes	±1V to ±1.6V		I		TSSOP	$12.75
LTC2293	12	2		65	71.3	90		0.8	1.4	12mV	2.5%	400	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$18.12
LTC1743	12			50	72.5	90	88	0.8	1			1.2W	5	yes		5	yes	±1V to ±1.6V		I		TSSOP	$9.30
LTC2227	12			40	71.4	90		0.7	1	12mV	2.5%	120	3	yes		5	yes	±0.5V to ±1V	yes	I	14-Bit Upgrade Path	5×5 QFN-32	$7.92
LTC2257-12	**12**			**40**	**70.7**	**88**		**0.4**	**1**	**9mV**	**1.5%**	**47**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**DDR (LVDS & CMOS) Outputs**	**6×6 QFN-40**	**$9.92**
LTC2292	12	2		40	71.4	90		0.8	1.4	12mV	2.5%	235	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$11.88
LTC2226	12			25	71.4	90		0.7	1	12mV	2.5%	75	3	yes		5	yes	±0.5V to ±1V	yes	I, H	14-Bit Upgrade Path	5×5 QFN-32, 7×7 LQFP-48	$7.50
LTC2256-12	**12**			**25**	**70.5**	**88**		**0.4**	**1**	**9mV**	**1.5%**	**34**	**1.8**	**yes**		**5.5**	**yes**	**±0.5V to ±1V**	**yes**	**I**	**DDR (LVDS & CMOS) Outputs**	**6×6 QFN-40**	**$9.50**
LTC1745	12			25	72.5	96	92	0.75	1			455	5	yes		5	yes	±1V to ±1.6V		I		TSSOP-48	$9.30
LTC2291	12	2		25	71.4	90		0.8	1.4	12mV	2.5%	150	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$11.25
LTC2225	12			10	71.3	90		0.7	1.1	12mV	2.5%	60	3	yes		5	yes	±0.5V to ±1V	yes	I	14-Bit Upgrade Path	5×5 QFN-32	$4.57
LTC1420	12			10	71	83	81	1	1	12	20	200	5, ±5	yes		3	yes	±2V, ±1V, ±0.5V		I		SSOP-28	$5.95
LTC2290	12	2		10	71.3	90		0.7	1.3	12mV	2.5%	120	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$10.00
LTC1405	12			5	71.3	85	83	1	1	12	30	115	5, ±5	yes		3	yes	±2V, ±1V, ±0.5V		I		SSOP-28	$5.95
LTC1407	12		2	3	70.5	87	87	1	2			12	3		yes	2	yes	0V to 2.5V	yes	I	Simultaneous Sampling	MSOP-10	$4.00

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

HIGH SPEED ADCs

Part Number	† Bits	ADC	MUX	†† Speed (Msps)	SINAD (dB)	SFDR (dB)	THD (dB)	DNL (LSB)	INL (LSB)	Offset (LSB)	Full-Scale (LSB)	Power (mW)	Supply (V)	Bipolar Input	Serial I/O	Latency (Clocks)	Internal Reference	Input Span	Shutdown	Ext. Temp.	Comments	Package-Pins	Price 1K Qty
LTC1407-1	12		2	3	70.5	87	87	1	2			12	3		yes	2	yes	±1.25V	yes	I	Simultaneous Sampling	MSOP-10	$4.00
LTC1412	12			3	72	82	80	1	1	6	15	150	±5	yes		1	yes	±2.5V		I		SSOP-28	$9.95
LTC1403	12			2.8	70.5	87	87	1	2			12	3		yes	2	yes	0V to 2.5V	yes	I, H		MSOP-10	$4.00
LTC1403-1	12			2.8	70.5	87	87	1	2			12	3		yes	2	yes	±1.25V	yes	I		MSOP-10	$4.00
LTC1402	12			2.2	72	93	89	1	1	10	15	90	5, ±5	yes	yes	1	yes	0V to 4V, ±2V	yes	I		SSOP-16	$6.95
LTC1415	12			1.25	69	75	72	1	1	6	20	55	5	yes		1	yes	0V to 4V	yes	I		SSOP-28, SO(W)-28	$9.90
LTC1410	12			1.25	71		82	1	1	6	15	160	±5	yes		1	yes	±2.5V	yes	I		SSOP-28, SO(W)-28	$9.90
LTC1851	12		8	1.25				1	1	7	6	50	5	yes		1	yes	0V to V_{REF}, 0V to V_{REF}/2 ±V_{REF}/2, ±V_{REF}/4	yes	I		SSOP-48	$6.95
LTC2242-10	10			250	60.4	78		0.7	1	17mV	3.5%	740	2.5	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$39.00
LTC2241-10	10			210	60.5	78		0.6	0.8	15mV	3.5%	585	2.5	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$32.00
LTC2240-10	10			170	60.5	80		0.6	0.8	15mV	3.8%	445	2.5	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$25.00
LTC2230	10			170	61.2	80		0.6	0.8	35mV	2.5%	890	3.3	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$29.20
LTC2231	10			135	61.2	80		0.6	0.8	35mV	2.5%	660	3.3	yes		5	yes	±0.5V to ±1V	yes	I	LVDS or CMOS Outputs	9×9 QFN-64	$20.00
LTC2234	10			135	61.2	80		0.6	0.8	37mV	2.5%	630	3.3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	7×7 QFN-48	$20.00
LTC2281	10	2		125	61.6	85		0.6	0.6	12mV	2.5%	790	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$18.00
LTC2251	10			125	61.5	85		0.6	0.6	12mV	2.5%	395	3	yes		5	yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$12.00
LTC2250	10			105	61.6	85		0.6	0.6	12mV	2.5%	320	3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	5×5 QFN-32	$7.50
LTC2232	10			105	61.3	80		0.6	0.8	37mV	2.5%	475	3.3	yes		5	yes	±0.5V to ±1V	yes	I	CMOS Outputs	7×7 QFN-48	$8.35
LTC2280	10	2		105	61.6	85		0.6	0.6	12mV	2.5%	540	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$11.25
LTC2233	10			80	61.3	80		0.6	0.8	37mV	2.5%	366	3.3	yes		5	yes	±0.5V to ±1V	yes	I		7×7 QFN-48	$6.70
LTC2289	10	2		80	61.6	85		0.5	0.6	12mV	2.5%	422	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$10.05
LTC2238	10			65	61.8	85		0.5	0.5	12mV	2.5%	205	3	yes		5	yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$5.00
LTC2288	10	2		65	61.8	85		0.5	0.6	12mV	2.5%	400	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$7.50
LTC2237	10			40	61.8	85		0.5	0.5	12mV	2.5%	120	3	yes		5	yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$4.80
LTC2287	10	2		40	61.8	85		0.5	0.6	12mV	2.5%	235	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$7.20
LTC2236	10			25	61.8	85		0.5	0.5	12mV	2.5%	75	3	yes		5	yes	±0.5V to ±1V	yes	I		5×5 QFN-32	$3.50
LTC2286	10	2		25	61.8	85		0.5	0.6	12mV	2.5%	150	3	yes		5	yes	±0.5V to ±1V	yes	I	Dual ADC	9×9 QFN-64	$5.25
LTC1850	10		8	1.25				0.5	0.5	2	2	50	5	yes		1	yes	0V to V_{REF}, 0V to V_{REF}/2 ±V_{REF}/2, ±V_{REF}/4	yes	I		SSOP-48	$5.95
LTC1406	8			20	47.5	60	59	1	1	8	5	150	5	yes		5	yes	0V to 2V, ±1V	yes	I		SSOP-24	$3.20
LTC1196	8			1	47	93	49	1	0.5	0.5	0.5	4.5	5	yes	yes	1	yes	0V to 5V	yes			SO-8	$2.40

† Primary Sort Column
†† Secondary Sort Column

No Latency ΔΣ™ ADCs

Part Number	† Bits	MUX	Output Rate with Internal Clock (Hz)	Output Rate Max (Hz)	†† Noise (μV_{RMS})	DNL (LSB)	INL (ppm)	Offset (μV)	Full-Scale (ppm)	Rejection at f_0 (dB)	Simultaneous 50Hz/60Hz Rejection	Power (mW)	Supply (V)	Differential Input	Input Span	I/O	Int. Temp. Sensor	Gain	Ext. Temp.	Package-Pins	Price 1K Qty
LTC2440	24		3.5k	4k	0.2	1	15	5	30	120	yes	40	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	SSOP-16	$5.75
LTC2445	24	4/8	3.5k, 7k(1)	4k, 8k(1)	0.2	1	15	5	50	120	yes	40	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	5×7 QFN-38	$6.45
LTC2447	24	4/8	3.5k, 7k(1)	4k, 8k(1)	0.2	1	15	5	50	120	yes	40	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	5×7 QFN-38	$7.15
LTC2449	24	8/16	3.5k, 7k(1)	4k, 8k(1)	0.2	1	15	5	50	120	yes	40	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	5×7 QFN-38	$7.15
LTC2442	24	2/4	3.5k, 7k(1)	4k, 8k(1)	0.22	1	10	5	50	120	yes	50	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	SSOP-36	$7.45
LTC2444	24	4/8	3.5k, 7k(1)	4k, 8k(1)	0.28	1	15	5	50	120	yes	40	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	5×7 QFN-38	$6.45
LTC2446	24	4/8	3.5k, 7k(1)	4k, 8k(1)	0.28	1	15	5	50	120	yes	40	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	5×7 QFN-38	$7.15
LTC2448	24	8/16	3.5k, 7k(1)	4k, 8k(1)	0.28	1	15	5	50	120	yes	40	4.5 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI			I	5×7 QFN-38	$7.15
LTC2484	24		6.8	15	0.6	1	10	2.5	25	110	yes	0.48	2.7 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI	yes		I	3×3 DFN-10	$2.45
LTC2485	24		6.8	15	0.6	1	10	2.5	25	110	yes	0.48	2.7 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	I^2C	yes		I	3×3 DFN-10	$2.45
LTC2492	24	2/4	15	100	0.6	1	10	2.5	25	120	yes	0.48	2.7 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI	yes		I	4×3 DFN-14	$2.95
LTC2493	24	2/4	15	195	0.6	1	10	2.5	25	120	yes	0.48	2.7 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	I^2C	yes		I	4×3 DFN-14	$2.95
LTC2498	24	8/16	15	100	0.6	1	10	2.5	25	120	yes	0.48	2.7 to 5.5	yes	–V_{REF}/2 to V_{REF}/2	SPI	yes		I	5×7 QFN-38	$3.45

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	MUX	Output Rate with Internal Clock (Hz)	Output Rate Max (Hz)	†† Noise (μV_{RMS})	DNL (LSB)	INL (ppm)	Offset (µV)	Full-Scale (ppm)	Rejection at f_0 (dB)	Simultaneous 50Hz/60Hz Rejection	Power (mW)	Supply (V)	Differential Input	Input Span	I/O	Int. Temp. Sensor	Gain	Ext. Temp.	Package-Pins	Price 1K Qty
LTC2499	24	8/16	15	100	0.6	1	10	2.5	25	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	I^2C	yes		I	5×7 QFN-38	$3.45
LTC2410	24		7.5	100	0.8	1	14	2.5	12	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$5.50
LTC2413	24		6.8	100	0.8	1	14	2.5	12	87	yes	1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$5.50
LTC2412	24	2	7.5	100	0.8	1	14	2.5	12	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$4.75
LTC2414	24	4/8	7.5	100	1	1	14	10	12	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-28	$6.25
LTC2418	24	8/16	7.5	100	1	1	14	10	12	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-28	$6.95
LTC2415	24		15	195	1.1	1	14	2mV	12	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$5.50
LTC2415-1	24		13.75	195	1.1	1	14	2mV	12	87	yes	1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$5.50
LTC2411	24		7.5	100	1.45	1	14	20	12	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	MSOP-10	$5.50
LTC2411-1	24		6.8	100	1.45	1	14	20	12	87	yes	1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	MSOP-10	$5.50
LTC2400	24		7.5	15	1.5	1	10	2ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	SO-8	$5.50
LTC2404	24	4	7.5	15	1.5	1	10	2ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	SSOP-28	$6.00
LTC2408	24	8	7.5	15	1.5	1	10	2ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	SSOP-28	$6.25
LTC2401	24		7.5	15	3	1	10	2ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	MSOP-10	$5.30
LTC2402	24	2	7.5	15	3	1	10	2ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	MSOP-10	$5.60
LTC2430	20		7.5	100	2.8	1	20	1ppm	20	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$3.55
LTC2431	20		7.5	100	2.8	1	20	1ppm	20	140		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	MSOP-10	$3.70
LTC2435	20		15	195	4	1	20	5mV	10	110		1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$3.55
LTC2435-1	20		13.75	195	4	1	20	5mV	10	87	yes	1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$3.55
LTC2420	20		7.5	100	6	1	10	10ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	SO-8	$4.25
LTC2424	20	4	7.5	100	6	1	10	10ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	SSOP-28	$4.75
LTC2428	20	8	7.5	100	6	1	10	10ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	SSOP-28	$5.25
LTC2421	20		7.5	15	6	1	10	10ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	MSOP-10	$4.35
LTC2422	20	2	7.5	15	6	1	10	10ppm	10	130		1	2.7 to 5.5		0 to V_{REF} ±12%	SPI			I	MSOP-10	$4.50
LTC2480	16		15	195	0.6	1	10	2.5	25	110	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI	yes	yes	I, H	3×3 DFN-10	$1.85
LTC2481	16		15	195	0.6	1	10	2.5	25	110	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	I^2C	yes	yes	I, H	3×3 DFN-10	$1.85
LTC2486	16	2/4	15	195	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI	yes	yes	I	4×3 DFN-14	$2.35
LTC2487	16	2/4	15	195	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	I^2C	yes	yes	I	4×3 DFN-14	$2.35
LTC2494	16	8/16	15	195	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI	yes	yes	I	5×7 QFN-38	$2.85
LTC2495	16	8/16	15	195	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	I^2C	yes	yes	I	5×7 QFN-38	$2.85
LTC2482	16		7.5	100	0.6	1	20	5	32	110	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	3×3 DFN-10	$1.65
LTC2483	16		7.5	100	0.6	1	10	2.5	25	110	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	I^2C			I	3×3 DFN-10	$1.65
LTC2488	16	2/4	7.5	100	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	4×3 DFN-14	$2.15
LTC2489	16	2/4	7.5	100	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	I^2C			I	4×3 DFN-14	$2.15
LTC2496	16	8/16	7.5	100	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	5×7 QFN-38	$2.65
LTC2497	16	8/16	7.5	100	0.6	1	20	5	32	120	yes	0.48	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	I^2C			I	5×7 QFN-38	$2.65
LTC2436-1	16	2	6.8	100	0.8	1	3LSB	1LSB	3LSB	140	yes	1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-16	$2.45
LTC2439-1	16	8/16	6.8	100	1	1	1.25LSB	20	1.25LSB	120	yes	1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	SSOP-28	$3.75
LTC2450	16		30	30	1.4	1	10LSB	0.3mV	0.02%			1.05	2.7 to 5.5		0 to V_{CC}	SPI			I	2×2 DFN-6	$1.15
LTC2450-1	16		60	60	1.4	1	10LSB	2mV	0.02%			1.05	2.7 to 5.5		0 to V_{CC}	SPI			I	2×2 DFN-6	$1.15
LTC2451	16		30 or 60	60	1.4	1	10LSB	0.5mV or 2mV	0.02%			1.05	2.7 to 5.5		0 to V_{CC}	I^2C			I	3×2 DFN-8, TSOT-8	$1.15
LTC2452	16		60	60	1.4	1	10LSB	0.4mV	0.02%			1.05	2.7 to 5.5	yes	$\pm V_{CC}$	SPI			I	3×2 DFN-8, TSOT-8	$1.25
LTC2453	16		60	60	1.4	1	10LSB	0.4mV	0.02%			1.05	2.7 to 5.5	yes	$\pm V_{CC}$	I^2C			I	3×2 DFN-8, TSOT-8	$1.25
LTC2433-1	16		6.8	100	1.45	1	1.25LSB	20	1.25LSB	140	yes	1	2.7 to 5.5	yes	$-V_{REF}/2$ to $V_{REF}/2$	SPI			I	MSOP-10	$1.95
LTC2460	**16**		**60**	**60**	**2.2**	**1**	**10LSB**	**10LSB**	**0.25%**			**4.5**	**2.7 to 5.5**		**0V to 1.25V**	**SPI**			**I**	**3×3 DFN-12, MSOP-12**	**C.F.**
LTC2461	**16**		**60**	**60**	**2.2**	**1**	**10LSB**	**10LSB**	**0.25%**			**4.5**	**2.7 to 5.5**		**0V to 1.25V**	**I^2C**			**I**	**3×3 DFN-12, MSOP-12**	**C.F.**
LTC2462	**16**		**60**	**60**	**2.2**	**1**	**10LSB**	**10LSB**	**0.25%**			**4.5**	**2.7 to 5.5**	**yes**	**±1.25V**	**SPI**			**I**	**3×3 DFN-12, MSOP-12**	**C.F.**
LTC2463	**16**		**60**	**60**	**2.2**	**1**	**10LSB**	**10LSB**	**0.25%**			**4.5**	**2.7 to 5.5**	**yes**	**±1.25V**	**I^2C**			**I**	**3×3 DFN-12, MSOP-12**	**C.F.**

† Primary Sort Column
†† Secondary Sort Column

Note:
1. One cycle latency

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

DACs (ALL)

Part Number	† Bits	†† # DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output	Output Range	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1821	16	1	±1	±1	2	Parallel	Ext	Voltage	0V to 10V, 0V to –10V, ±10V	5 and up to ±15	40	Fast Settling to 16-Bit Precision	I	SSOP-36	$29.95
LTC1668	16	1	±4	±8	20ns	Parallel	2.5V	Current	10mA	±5	180	50Msps, Pin Compatible 12-Bit and 14-Bit Devices	I	SSOP-28	$13.75
LTC1657L	16	1	±1	±12	20	Parallel	1.25V	Voltage	0V to 2.5V	2.7 to 5.5		Single 3V, Rail-to-Rail V_{OUT}	I	SSOP-28, DIP-28	$9.50
LTC1657	16	1	±1	±12	20	Parallel	2.048V	Voltage	0V to 4.096V	4.5 to 5.5	3	Single 5V, Rail-to-Rail V_{OUT}	I	SSOP-28, DIP-28	$8.60
LTC1655L	16	1	±1	±20	20	Serial SPI	1.25V	Voltage	0V to 2.5V	2.7 to 5.5	1.6	SO-8 Package, 3V Single Supply	I	DIP-8, SO-8	$8.80
LTC1655	16	1	±1	±20	20	Serial SPI	2.048V	Voltage	0V to 4.096V	4.5 to 5.5	2.6	SO-8 Package, Single Supply	I	DIP-8, SO-8	$7.95
LTC1650	16	1	±0.5	±8	4	Serial SPI	Ext	Voltage	±5V	±5	50	Ultralow Noise, Deglitched	I	DIP-16, SO(W)-16	$11.20
LTC1599	16	1	±1	±1	1	Parallel	Ext	Current	0V to 10V, 0V to –10V, ±10V	5	55µW	Byte Wide Input, On-Chip Resistors for 4-Quadrant Multiplication	I	SSOP-24, DIP-24	$15.90
LTC1597	16	1	±1	±1	1	Parallel	Ext	Current	0V to 10V, 0V to –10V, ±10V	5	55µW	On-Chip Resistors, LTC1597-1 Resets to Mid-Scale	I	SSOP-28, DIP-28	$15.90
LTC1596	16	1	±1	±1	1	Serial SPI	Ext	Current	0V to V_{REF}	5	55µW	LTC1596-1 Resets to Mid-Scale, 8143 Pinout	I	DIP-16, SO(W)-16	$12.75
LTC1595	16	1	±1	±1	1	Serial SPI	Ext	Current	0V to V_{REF}	5	55µW	SO-8, Multiplying, 8043 Pinout	I	DIP-8, SO-8	$12.25
LTC1592	16	1	±1	±1	2	Serial SPI	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	5	55µW	Software-Selectable Output Ranges without External Resistors or Switches	I	SSOP-16	$13.95
LTC2601	16	1	±1	±64	10	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	0.9	Pin Compatible Family 12-Bit and 14-Bit	I	3×3 DFN-10	$2.70
LTC2601-1	16	1	±1	±64	10	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	0.9	Reset to Mid-Scale	I	3×3 DFN-10	$2.70
LTC2606	16	1	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	0.8	Pin Compatible Family 12-Bit and 14-Bit	I	3×3 DFN-10	$2.84
LTC2606-1	16	1	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	0.8	Reset to Mid-Scale	I	3×3 DFN-10	$2.84
LTC2641-16	16	1	±1	±1	1	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	0.36	Unbuffered Unipolar V_{OUT}, 1µs Settling, Low Glitch Energy	I	3×3 DFN-8, MSOP-8, SO-8	$6.25
LTC2642-16	16	1	±1	±1	1	Serial SPI	Ext	Voltage	±V_{REF}	2.7 to 5.5	0.36	Unbuffered, Matched Resistors for Bipolar V_{OUT}, 1µs Settling	I	3×3 DFN-10, MSOP-10	$6.25
LTC2751-16	16	1	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	5×7 QFN-38	$8.50
LTC2753-16	16	2	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	7×7 QFN-48	$11.90
LTC2602	16	2	±1	±64	10	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	1.8	Pin Compatible Family 10,12,14-Bit and Ultralow Crosstalk	I	MSOP-8	$4.75
LTC2607	16	2	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	1.8	Pin Compatible Family 10,12,14-Bit and Ultralow Crosstalk	I	3×4 DFN-12	$5.23
LTC2607-1	16	2	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	1.8	Reset to Mid-Scale	I	3×4 DFN-12	$5.23
LTC2755-16	16	4	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	9×9 QFN-64	$17.85
LTC2604	16	4	±1	±64	10	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	3	Pin Compatible Family 12,14-Bit and Ultralow Crosstalk	I	SSOP-16	$9.50
LTC2609	16	4	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	3	Pin Compatible Family 12,14-Bit and Ultralow Crosstalk	I	SSOP-16	$9.50
LTC2609-1	16	4	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	3	Reset to Mid-Scale	I	SSOP-16	$9.50
LTC2704-16	16	4	±1	±2	10	Serial SPI	Ext	Voltage	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	±4.5 to ±16.5	263	SoftSpan, Force/Sense Outputs, Readback	I	SSOP-44	$29.95
LTC2656-16	**16**	**8**	**±1**	**±2**	**8.5**	**Serial SPI**	**2.048V**	**Voltage**	**0V to 5V, 0V to 4.096V**	**4.5 to 5.5**	**17.5 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/Mid-Scale Power-On Reset, SDO for Data Readback**	**I, H**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2656L-16	**16**	**8**	**±1**	**±2**	**8.5**	**Serial SPI**	**1.25V**	**Voltage**	**0V to 5V, 0V to 2.048V**	**2.7 to 5.5**	**9.6 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/Mid-Scale Power-On Reset, SDO for Data Readback**	**I, H**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2600	16	8	±1	±64	10	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	6	Pin Compatible Family 8,10,12,14-Bit and Ultralow Crosstalk	I	SSOP-16, 4×5 QFN-20	$14.00
LTC2605	16	8	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	6	Pin Compatible Family 8,10,12,14-Bit and Ultralow Crosstalk	I	SSOP-16	$14.70
LTC2605-1	16	8	±1	±64	10	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	6	Reset to Mid-Scale	I	SSOP-16	$14.70
LTC1667	14	1	±1	±2	20ns	Parallel	2.5V	Current	10mA	±5	180	50Msps, Pin Compatible 12-Bit and 16-Bit Devices	I	SSOP-28	$10.80
LTC1658	14	1	±1	±8	12	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	3	Single Supply, MSOP	I	MSOP-8, SO-8, DIP-8	$4.80
LTC1591	14	1	±1	±1	1	Parallel	Ext	Current	0V to 10V, 0V to –10V, ±10V	5	55µW	On-Chip Resistors, LTC1591-1 Resets to Mid-Scale, LTC1597 Pinout	I	SSOP-28, DIP-28	$8.95
LTC1589	14	1	±1	±1	2	Serial SPI	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	5	55µW	Software-Selectable Output Ranges without External Resistors or Switches	I	SSOP-16	$9.95
LTC2611	14	1	±1	±16	9	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	0.9	Pin Compatible Family 12-Bit and 16-Bit	I	3×3 DFN-10	$2.25
LTC2611-1	14	1	±1	±16	9	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	0.9	Reset to Mid-Scale	I	3×3 DFN-10	$2.25
LTC2616	14	1	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	0.8	Pin Compatible Family 12-Bit and 16-Bit	I	3×3 DFN-10	$2.36
LTC2616-1	14	1	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	0.8	Reset to Mid-Scale	I	3×3 DFN-10	$2.36
LTC2641-14	14	1	±1	±1	1	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	0.36	Unbuffered Unipolar V_{OUT}, 1µs Settling, Low Glitch Energy	I	3×3 DFN-8, MSOP-8	$5.42
LTC2642-14	14	1	±1	±1	1	Serial SPI	Ext	Voltage	±V_{REF}	2.7 to 5.5	0.36	Unbuffered, Matched Resistors for Bipolar V_{OUT}, 1µs Settling	I	3×3 DFN-10, MSOP-10	$5.42
LTC2751-14	14	1	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	5×7 QFN-38	$6.50

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	†† # DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output	Output Range	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC2753-14	14	2	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	7×7 QFN-48	$9.10
LTC1654	14	2	±1	±4	8.5 or 3	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	0.75 or 1.35	2 DACs in SO-8 Footprint	I	SSOP-16	$8.95
LTC2612	14	2	±1	±16	9	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	1.8	Pin Compatible Family 10,12,16-Bit and Ultralow Crosstalk	I	MSOP-8	$3.45
LTC2617	14	2	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	1.8	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	3×4 DFN-12	$3.80
LTC2617-1	14	2	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	1.8	Reset to Mid-Scale	I	3×4 DFN-12	$3.80
LTC2755-14	14	4	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	9×9 QFN-64	$12.65
LTC2614	14	4	±1	±16	9	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	3	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	SSOP-16	$7.00
LTC2619	14	4	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	3	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	SSOP-16	$7.35
LTC2619-1	14	4	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	3	Reset to Mid-Scale	I	SSOP-16	$7.35
LTC2704-14	14	4	±1	±1	9	Serial SPI	Ext	Voltage	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	±4.5 to ±16.5	263	SoftSpan, Force/Sense Outputs, Readback	I	SSOP-44	$24.95
LTC2610	14	8	±1	±16	9	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	6	Pin Compatible Family 8,10,12,16-Bit and Ultralow Crosstalk	I	SSOP-16, 4×5 QFN-20	$11.05
LTC2615	14	8	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	6	Pin Compatible Family 8,10,12,16-Bit and Ultralow Crosstalk	I	SSOP-16	$11.60
LTC2615-1	14	8	±1	±16	9	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	6	Reset to Mid-Scale	I	SSOP-16	$11.60
LTC2621	12	1	±0.5	±4	7	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	0.9	Pin Compatible Family 14-Bit and 16-Bit	I	3×3 DFN-10	$1.95
LTC2621-1	12	1	±0.5	±4	7	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	0.9	Reset to Mid-Scale	I	3×3 DFN-10	$1.95
LTC2626	12	1	±0.5	±4	7	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	0.8	Pin Compatible Family 14-Bit and 16-Bit	I	3×3 DFN-10	$2.05
LTC2626-1	12	1	±0.5	±4	7	I^2C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	0.8	Reset to Mid-Scale	I	3×3 DFN-10	$2.05
LTC2630A-12	12	1	±1	±1	4.5	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{CC}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	SC70-6	$1.43
LTC2640A-12	12	1	±1	±1	4.1	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.48
LTC2631A-12	12	1	±1	±1	4.1	I^2C	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.58
LTC8143	12	1	±0.5	±0.5	0.25	Serial SPI	Ext	Current	0V to V_{REF}	5	0.55	Upgrade to 16-Bit with LTC1596, Multiplying	I	DIP-16, SO(W)-16	$6.90
LTC8043	12	1	±0.5	±0.5	0.25	Serial SPI	Ext	Current	0V to V_{REF}	5	2.5	Upgrade to 16-Bit with LTC1595, Multiplying	I	DIP-8, SO-8	$4.80
LTC7545A	12	1	±0.5	±0.5	1	Parallel	Ext	Current	0V to V_{REF}	5, 15	0.55	Microprocessor Compatible I/O, Multiplying	I	DIP-20, SO(W)-20	$3.80
LTC7543	12	1	±0.5	±0.5	0.25	Serial SPI	Ext	Current	0V to V_{REF}	5	0.55	Multiplying	I	DIP-16, SO(W)-16	$6.90
LTC7541A	12	1	±0.5	±0.5	0.6	Parallel	Ext	Current	0V to V_{REF}	5 to 16	0.55	Multiplying	I	DIP-18, SO(W)-18	$3.65
LTC1666	12	1	±1	±1	20ns	Parallel	2.5V	Current	10mA	±5	180	50Msps, Pin Compatible 14-Bit and 16-Bit Devices	I	SSOP-28	$8.05
LTC1659	12	1	±0.5	±5.5	14	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	0.72	Single Supply, MSOP	I	MSOP-8, SO-8	$4.45
LTC1588	12	1	±1	±1	2	Serial SPI	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	5	55µW	Software-Selectable Output Ranges without External Resistors or Switches	I	SSOP-16	$5.95
LTC1456	12	1	±0.5	±4	14	Serial SPI	2.048V	Voltage	0V to 4.096V	4.5 to 5.5	2.2	Clear Input	I	DIP-8, SO-8	$4.50
LTC1453	12	1	±0.5	±4	14	Serial SPI	1.22V	Voltage	0V to 2.5V	2.7 to 5.5	0.75	3V to 5V Operation, 250µA I_{CC}	I	DIP-8, SO-8	$4.60
LTC1452	12	1	±0.5	±4	14	Serial SPI	Ext	Voltage	0V to 2(V_{REF})	2.7 to 5.5	0.68	3V to 5V Operation, 225µA I_{CC}	I	DIP-8, SO-8	$4.20
LTC1451	12	1	±0.5	±4	14	Serial SPI	2.048V	Voltage	0V to 4.096V	4.5 to 5.5	2	SO-8 Package, Single Supply	I	DIP-8, SO-8	$4.50
LTC1450L	12	1	±0.5	±4	14	Parallel	1.22V	Voltage	0V to 2.5V/Ext V_{REF}	2.7 to 5.5	0.75	Single 3V, Rail-to-Rail V_{OUT}	I	SSOP-24, DIP-24	$5.70
LTC1450	12	1	±0.5	±4	14	Parallel	2.048V	Voltage	0V to 4.096V/Ext V_{REF}	4.5 to 5.5	2	Single 5V, Rail-to-Rail V_{OUT}	I	SSOP-24, DIP-24	$5.35
LTC1257	12	1	±0.5	±3.5	6	Serial SPI	2.048V	Voltage	0V to 2.048V or up to 12V	4.75 to 15.75	1.75	0V to 12V Out with Ext. Reference	I	DIP-8, SO-8	$4.40
LTC2641-12	12	1	±0.5	±0.5	1	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	0.36	Unbuffered Unipolar V_{OUT}, 1µs Settling, Low Glitch Energy	I	3×3 DFN-8, MSOP-8	$2.95
LTC2642-12	12	1	±0.5	±0.5	1	Serial SPI	Ext	Voltage	±V_{REF}	2.7 to 5.5	0.36	Unbuffered, Matched Resistors for Bipolar V_{OUT}, 1µs Settling	I	3×3 DFN-10, MSOP-10	$2.95
LTC2751-12	12	1	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	5×7 QFN-38	$4.95
LTC2753-12	12	2	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	7×7 QFN-48	$5.95
LTC1590	12	2	±0.5	±0.5	0.3	Serial SPI	Ext	Current	0V to V_{REF}	5	55µW	Dual, Multiplying, 0.5LSB Over Temp.	I	DIP-16, SO-16	$6.25
LTC1454L	12	2	±0.5	±4.5	14	Serial SPI	1.22V	Voltage	0V to 2.5V/Ext V_{REF}	2.7 to 5.5	1.35	Dual DAC, Separate Reference Inputs	I	DIP-16, SO-16	$7.25
LTC1454	12	2	±0.5	±4.5	14	Serial SPI	2.048V	Voltage	0V to 4.096V/Ext V_{REF}	4.5 to 5.5	3.5	Dual DAC, Separate Reference Inputs	I	DIP-16, SO-16	$6.60
LTC1448	12	2	±0.5	±5.5	14	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	1.35	Dual in SO-8, Single 3V or 5V Supply	I	DIP-8, SO-8	$6.40
LTC1446L	12	2	±0.5	±5	14	Serial SPI	1.22V	Voltage	0V to 2.5V	2.7 to 5.5	1.95	Dual in SO-8, Single 3V Supply	I	DIP-8, SO-8	$7.05

† Primary Sort Column
†† Secondary Sort Column

Part Number	† Bits	†† # DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output	Output Range	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1446	12	2	±0.5	±5	14	Serial SPI	2.048V	Voltage	0V to 4.096V	4.5 to 5.5	5	Dual in SO-8, Single Supply	I	DIP-8, SO-8	$6.40
LTC2622	12	2	±0.5	±4	7	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	1.8	Pin Compatible Family 10,14,16-Bit and Ultralow Crosstalk	I	MSOP-8	$2.80
LTC2627	12	2	±0.5	±4	7	I²C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	1.8	Pin Compatible Family 14,16-Bit and Ultralow Crosstalk	I	DFN-12	$3.08
LTC2627-1	12	2	±0.5	±4	7	I²C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	1.8	Reset to Mid-Scale	I	DFN-12	$3.08
LTC2755-12	12	4	±1	±1	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	2.7 to 5.5	2.5µW	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV-s Glitch Impulse	I	9×9 QFN-64	$7.15
LTC1458L	12	4	±0.5	±4.5	14	Serial SPI	1.22V	Voltage	0V to 2.5V/Ext V_{REF}	2.7 to 5.5	2.4	Quad DAC, Separate Reference Inputs	I	SSOP-28, SO(W)-28	$12.95
LTC1458	12	4	±0.5	±4.5	14	Serial SPI	2.048V	Voltage	0V to 4.096V/Ext V_{REF}	4.5 to 5.5	5.5	Quad DAC, Separate Reference Inputs	I	SSOP-28, SO(W)-28	$11.75
LTC2634-12	**12**	**4**	**±1**	**±2.5**	**4.2**	**Serial SPI**	**1.25V**	**Voltage**	**0V to 2.5V, 0V to 4.096V, 0V to V_{REF}**	**2.7 to 5.5**	**2.4**	**Quad Rail-to-Rail Outputs, 10ppm/°C V_{REF} Tempco, Zero-Scale or Mid-Scale Reset**	**I, H**	**3×3 QFN-10, MSOP-10**	**$4.30**
LTC2624	12	4	±0.5	±4	7	Serial SPI	Ext	Voltage	0V to V_{CC}	2.5 to 5.5	3	Pin Compatible Family 14,16-Bit and Ultralow Crosstalk	I	SSOP-16	$5.25
LTC2629	12	4	±0.5	±4	7	I²C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	3	Pin Compatible Family 14,16-Bit and Ultralow Crosstalk	I	SSOP-16	$5.25
LTC2629-1	12	4	±0.5	±4	7	I²C	Ext	Voltage	0V to V_{CC}	2.7 to 5.5	3	Reset to Mid-Scale	I	SSOP-16	$5.25
LTC2704-12	12	4	±1	±1	8	Serial SPI	Ext	Voltage	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, -2.5V to 7.5V	±4.5 to ±16.5	263	SoftSpan, Force/Sense Outputs, Readback	I	SSOP-44	$19.95
LTC2656-12	**12**	**8**	**±0.5**	**±1**	**5.5**	**Serial SPI**	**2.048V**	**Voltage**	**0V to 5V, 0V to 4.096V**	**4.5 to 5.5**	**17.5 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/ Mid-Scale Power-On Reset, SDO for Data Readback**	**I, H**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2656L-12	**12**	**8**	**±0.5**	**±1**	**5.5**	**Serial SPI**	**1.25V**	**Voltage**	**0V to 5V, 0V to 2.048V**	**2.7 to 5.5**	**9.6 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/ Mid-Scale Power-On Reset, SDO for Data Readback**	**I**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2620	12	8	±0.5	±4	7	Serial SPI	Ext	Voltage	0 to V_{CC}	2.5 to 5.5	6	Pin Compatible Family 8,10,14,16-Bit and Ultralow Crosstalk	I	SSOP-16, 4×5 QFN-20	$7.75
LTC2625	12	8	±0.5	±4	7	I²C	Ext	Voltage	0 to V_{CC}	2.7 to 5.5	6	Pin Compatible Family 8,10,14,16-Bit and Ultralow Crosstalk	I	SSOP-16	$8.14
LTC2625-1	12	8	±0.5	±4	7	I²C	Ext	Voltage	0 to V_{CC}	2.7 to 5.5	6	Reset to Mid-Scale	I	SSOP-16	$8.14
LTC2636-12	12	8	±1	±2	4.4	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Internal 2.5V or 4.096V Reference, Reset to Zero-Scale or Mid-Scale Options, <3.5nV-s Crosstalk	I, H	4×3 DFN-14, MSOP-16	$7.75
LTC2630-10	10	1	±0.5	±1	4	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{CC}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	SC70-6	$1.24
LTC2640-10	10	1	±0.5	±1	3.8	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.29
LTC2631-10	10	1	±0.5	±1	3.8	I²C	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.39
LTC1669	10	1	±0.75	±2.5	30	I²C	2.5V	Voltage	0V to V_{CC}	2.7 to 5.5	0.375	2-Wire Interface, SOT-23	I	TSOT-5, MSOP-8	$1.75
LTC1663	10	1	±0.75	±2.5	30	SMBus	2.5V	Voltage	0V to V_{CC}	2.7 to 5.5	0.375	2-Wire Interface, SOT-23	I	TSOT-5, MSOP-8	$1.75
LTC1427-50	10	1	±0.9			SMBus/I²C	Ext	Current	50µA sourcing	2.7 to 5.5	0.55	Ideal for Digital Voltage Adjustment on DC/DC Converters		SO-8	$3.00
LTC1662	10	2	±0.75	±4	750	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	7.5µW	1.5µA per DAC, Dual	I	MSOP-8, DIP-8	$2.65
LTC1661	10	2	±0.75	±2	30	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	0.29	Dual in MSOP	I	MSOP-8, DIP-8	$1.65
LTC2634-10	**10**	**4**	**±0.5**	**±1**	**3.8**	**Serial SPI**	**1.25V or Ext**	**Voltage**	**0V to 2.5V, 0V to 4.096V, 0V to V_{REF}**	**2.7 to 5.5**	**2.4**	**Quad Rail-to-Rail Outputs, 10ppm/°C V_{REF} Tempco, Zero-Scale or Mid-Scale Reset**	**I, H**	**3×3 QFN-10, MSOP-10**	**$3.07**
LTC1664	10	4	±0.75	±2.5	19	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	1	Quad V_{OUT}, 60µA per DAC	I	SSOP-16, DIP-16	$2.95
LTC1660	10	8	±0.75	±2.5	30	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	1	Pin Compatible Family 8,12,14,16-Bit and 60µA per DAC		SSOP-16, DIP-16	$5.35
LTC2636-10	10	8	±0.5	±1	4	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Internal 2.5V or 4.096V Reference, Reset to Zero-Scale or Mid-Scale Options, <3.5nV-s Crosstalk	I, H	4×3 DFN-14, MSOP-16	$4.50
LTC2630-8	8	1	±0.5	±0.5	3.5	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{CC}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	SC70-6	$0.98
LTC2640-8	8	1	±0.5	±0.5	3.2	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.03
LTC2631-8	8	1	±0.5	±0.5	3.2	I²C	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.13
LTC1428-50	8	1	±0.9			Pulse Mode	Ext	Current	50µA sinking	3 to 6.5	0.39	Ideal for Digital Voltage Adjustment on DC/DC Converters		SO-8	$2.55
LTC1329-50	8	1	±0.9			Pulse Mode	Ext	Current	50µA sourcing	2.7 to 6.5	0.84	Ideal for Digital Voltage Adjustment on DC/DC Converters	I	SO-8	$2.55
LTC1329-10	8	1	±0.9			Pulse Mode	Ext	Current	10µA sourcing	2.7 to 6.5	0.14	Ideal for Digital Voltage Adjustment on DC/DC Converters		SO-8	$2.55
LTC1840	8	2	±0.9	±4		I²C	Ext	Current	100µA sourcing	2.7 to 5.75	2.5	Ideal for Digital Voltage Adjustment on DC/DC Converters		SSOP-16	$2.75
LTC2634-8	**8**	**4**	**±0.5**	**±0.5**	**3.3**	**Serial SPI**	**1.25V or Ext**	**Voltage**	**0V to 2.5V, 0V to 4.096V, 0V to V_{REF}**	**2.7 to 5.5**	**2.4**	**Quad Rail-to-Rail Outputs, 10ppm/°C V_{REF} Tempco, Zero-Scale or Mid-Scale Reset**	**I, H**	**3×3 QFN-10, MSOP-10**	**$2.03**
LTC1665	8	8	±0.5	±1	30	Serial SPI	Ext	Voltage	0V to V_{REF}	2.7 to 5.5	1	Pin Compatible Family 10,12,14,16-Bit and 60µA Per DAC	I	SSOP-16, DIP-16	$3.00
LTC2636-8	8	8	±0.5	±0.5	3.4	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Internal 2.5V or 4.096V Reference, Reset to Zero-Scale or Mid-Scale Options, <3.5nV-s Crosstalk	I, H	4×3 DFN-14, MSOP-16	$2.85

† Primary Sort Column
†† Secondary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† Bits	Speed Msps	DNL (LSB)	INL (LSB)	Setting Time (µs)	SFDR (dB)	THD (dB)	Glitch Impulse (pV_S)	I_{OUT} Full-scale (mA)	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1668	16	50	±4	±8	20	78	–84	5	10	±5	180	Differential Current Output	I	SSOP-28	$13.75
LTC1667	14	50	±1	±2	20	78	–84	5	10	±5	180	Differential Current Output	I	SSOP-28	$10.80
LTC1666	12	50	±1	±1	20	76	–84	5	10	±5	180	Differential Current Output	I	SSOP-28	$8.05

† Primary Sort Column

V_{OUT} DACs

Part Number	† Bits	# DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output Range	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC2601	16	1	±1	±64	10	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	0.9	Pin Compatible Family 12-Bit and 14-Bit	I	3×3 DFN-10	$2.70
LTC2601-1	16	1	±1	±64	10	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	0.9	Reset to Mid-Scale	I	3×3 DFN-10	$2.70
LTC2606	16	1	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	0.8	Pin Compatible Family 12-Bit and 14-Bit	I	3×3 DFN-10	$2.84
LTC2606-1	16	1	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	0.8	Reset to Mid-Scale	I	3×3 DFN-10	$2.84
LTC1821	16	1	±1	±1	2	Parallel	Ext	0V to 10V, 0V to –10V, ±10V	5 and up to ±15	40	Fast Settling to 16-Bit Precision	I	SSOP-36	$29.95
LTC1657L	16	1	±1	±12	20	Parallel	1.25V	0V to 2.048V	2.7 to 5.5		Single 3V, Rail-to-Rail V_{OUT}	I	SSOP-28, DIP-28	$9.50
LTC1657	16	1	±1	±12	20	Parallel	2.048V	0V to 4.096V	4.5 to 5.5	3	Single 5V, Rail-to-Rail V_{OUT}	I	SSOP-28, DIP-28	$8.60
LTC1655L	16	1	±1	±20	20	Serial SPI	1.25V	0V to 2.5V	2.7 to 5.5	1.6	SO-8 Package, 3V Single Supply	I	DIP-8, SO-8	$8.80
LTC1655	16	1	±1	±20	20	Serial SPI	2.048V	0V to 4.096V	4.5 to 5.5	2.6	SO-8 Package, Single Supply	I	DIP-8, SO-8	$7.95
LTC1650	16	1	±0.5	±8	4	Serial SPI	Ext	±5V	±5	50	Ultralow Noise, Deglitched	I	DIP-16, SO(W)-16	$11.20
LTC2641-16	16	1	±1	±1	1	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	0.36	Unbuffered Unipolar Output, Fast 1µs Settling, Low Glitch	I	3×3 DFN-8, MSOP-8	$6.25
LTC2642-16	16	1	±1	±1	1	Serial SPI	Ext	±V_{REF}	2.7 to 5.5	0.36	Unbuffered Bipolar Output, Fast 1µs Settling, Low Glitch	I	3×3 DFN-10, MSOP-10	$6.25
LTC2602	16	2	±1	±64	10	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	1.8	Pin Compatible Family 10,12,14-Bit and Ultralow Crosstalk	I	MSOP-8, SO-8	$4.75
LTC2607	16	2	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	1.8	Pin Compatible Family 12,14-Bit and Ultralow Crosstalk	I	3×4 DFN-12	$5.23
LTC2607-1	16	2	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	1.8	Reset to Mid-Scale	I	3×4 DFN-12	$5.23
LTC2604	16	4	±1	±64	10	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	3	Pin Compatible Family 12,14-Bit and Ultralow Crosstalk	I	SSOP-16	$9.50
LTC2609	16	4	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	3	Pin Compatible Family 12,14-Bit and Ultralow Crosstalk	I	SSOP-16	$9.50
LTC2609-1	16	4	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	3	Reset to Mid-Scale	I	SSOP-16	$9.50
LTC2704-16	16	4	±1	±2	10	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	±4.5 to ±16.5	263	SoftSpan, Force/Sense Outputs, Readback	I	SSOP-44	$29.95
LTC2656-16	**16**	**8**	**±1**	**±2**	**8.5**	**Serial SPI**	**2.048V**	**0V to 5V, 0V to 4.096V**	**4.5 to 5.5**	**17.5 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/Mid-Scale Power-On Reset, SDO for Data Readback**	**I, H**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2656L-16	**16**	**8**	**±1**	**±2**	**8.5**	**Serial SPI**	**1.25V**	**0V to 5V, 0V to 2.048V**	**2.7 to 5.5**	**9.6 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/Mid-Scale Power-On Reset, SDO for Data Readback**	**I, H**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2600	16	8	±1	±64	10	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	6	Pin Compatible Family 8,10,12,14-Bit and Ultralow Crosstalk	I	SSOP-16, 4×5 QFN-20	$14.00
LTC2605	16	8	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	6	Pin Compatible Family 12,14-Bit and Ultralow Crosstalk	I	SSOP-16	$14.70
LTC2605-1	16	8	±1	±64	10	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	6	Reset to Mid-Scale	I	SSOP-16	$14.70
LTC2611	14	1	±1	±16	9	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	0.9	Pin Compatible Family 12-Bit and 16-Bit	I	3×3 DFN-10	$2.25
LTC2611-1	14	1	±1	±16	9	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	0.9	Reset to Mid-Scale	I	3×3 DFN-10	$2.25
LTC2616	14	1	±1	±16	9	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	0.8	Pin Compatible Family 12-Bit and 16-Bit	I	3×3 DFN-10	$2.36
LTC2616-1	14	1	±1	±16	9	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	0.8	Reset to Mid-Scale	I	3×3 DFN-10	$2.36
LTC1658	14	1	±1	±8	12	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	3	Single Supply, MSOP	I	MSOP-8, SO-8	$4.80
LTC2641-14	14	1	±1	±1	1	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	0.36	Unbuffered Unipolar Output, Fast 1µs Settling, Low Glitch	I	3×3 DFN-8, MSOP-8	$5.42
LTC2642-14	14	1	±1	±1	1	Serial SPI	Ext	±V_{REF}	2.7 to 5.5	0.36	Unbuffered Bipolar Output, Fast 1µs Settling, Low Glitch	I	3×3 DFN-10, MSOP-10	$5.42
LTC1654	14	2	±1	±4	3	Serial SPI	Ext	0V to V_{CC}	2.7 to 5.5	6.5	Low Power per DAC	I	SSOP-16	$8.95
LTC2612	14	2	±1	±16	9	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	1.8	Pin Compatible Family 10,12,16-Bit and Ultralow Crosstalk	I	MSOP-8	$3.45
LTC2617	14	2	±1	±16	9	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	1.8	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	3×4 DFN-12	$3.80
LTC2617-1	14	2	±1	±16	9	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	1.8	Reset to Mid-Scale	I	3×4 DFN-12	$3.80
LTC2614	14	4	±1	±16	9	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	3	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	SSOP-16	$7.00
LTC2619	14	4	±1	±16	9	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	3	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	SSOP-16	$7.35
LTC2619-1	14	4	±1	±16	9	I^2C	Ext	0V to V_{CC}	2.7 to 5.5	3	Reset to Mid-Scale	I	SSOP-16	$7.35

† Primary Sort Column

V_{OUT} DACs

Part Number	† Bits	# DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output Range	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC2704-14	14	4	±1	±1	9	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, –2.5V to 7.5V	±4.5 to ±16.5	263	SoftSpan, Force/Sense Outputs, Readback	I	SSOP-44	$24.95
LTC2610	14	8	±1	±16	9	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	6	Pin Compatible Family 8,10,12,16-Bit and Ultralow Crosstalk	I	SSOP-16, 4×5 QFN-20	$11.05
LTC2615	14	8	±1	±16	9	I²C	Ext	0V to V_{CC}	2.7 to 5.5	6	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	SSOP-16	$11.60
LTC2615-1	14	8	±1	±16	9	I²C	Ext	0V to V_{CC}	2.7 to 5.5	6	Reset to Mid-Scale	I	SSOP-16	$11.60
LTC2621	12	1	±0.5	±4	7	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	0.9	Pin Compatible Family 14-Bit and 16-Bit	I	3×3 DFN-10	$1.95
LTC2621-1	12	1	±0.5	±4	7	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	0.9	Reset to Mid-Scale	I	3×3 DFN-10	$1.95
LTC2626	12	1	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	0.8	Pin Compatible Family 14-Bit and 16-Bit	I	3×3 DFN-10	$2.05
LTC2626-1	12	1	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	0.8	Reset to Mid-Scale	I	3×3 DFN-10	$2.05
LTC2630A-12	12	1	±1	±1	4.5	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{CC}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V Reference Options, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	SC70-6	$1.43
LTC2640A-12	12	1	±1	±1	4.1	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.48
LTC2631A-12	12	1	±1	±1	4.1	I²C	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.58
LTC1456	12	1	±0.5	±4	14	Serial SPI	2.048V	0V to 4.096V	4.5 to 5.5	2.2	Clear Input	I	DIP-8, SO-8	$4.50
LTC1453	12	1	±0.5	±4	14	Serial SPI	1.22V	0V to 2.5V	2.7 to 5.5	0.75	SO-8 Package, Single 3V Supply	I	DIP-8, SO-8	$4.60
LTC1452	12	1	±0.5	±4	14	Serial SPI	Ext	0V to 2(V_{REF})	2.7 to 5.5	0.68	3V to 5V Operation, 225µA I_{CC}	I	DIP-8, SO-8	$4.20
LTC1451	12	1	±0.5	±4	14	Serial SPI	2.048V	0V to 4.096V	4.5 to 5.5	2	SO-8 Package, Single Supply	I	DIP-8, SO-8	$4.50
LTC1450L	12	1	±0.5	±4	14	Parallel	1.22V	0V to 2.5V/Ext V_{REF}	2.7 to 5.5	0.75	Single 3V, Rail-to-Rail V_{OUT}	I	SSOP-24, DIP-24	$5.70
LTC1450	12	1	±0.5	±4	14	Parallel	2.048V	0V to 4.096V/Ext V_{REF}	4.5 to 5.5	2	Single 5V, Rail-to-Rail V_{OUT}	I	SSOP-24, DIP-24	$5.35
LTC1257	12	1	±0.5	±3.5	6	Serial SPI	2.048V	0V to 2.048V or up to 12V	4.5 to 15	1.75	0V to 12V Out with Ext. Reference	I	DIP-8, SO-8	$4.40
LTC2641-12	12	1	±0.5	±0.5	1	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	0.36	Unbuffered Unipolar Output, Fast 1µs Settling, Low Glitch	I	3×3 DFN-8, MSOP-8	$2.95
LTC2642-12	12	1	±0.5	±0.5	1	Serial SPI	Ext	±V_{REF}	2.7 to 5.5	0.36	Unbuffered Bipolar Output, Fast 1µs Settling, Low Glitch	I	3×3 DFN-10, MSOP-10	$2.95
LTC1454L	12	2	±0.5	±4.5	14	Serial SPI	1.22V	0V to 2.5V/Ext V_{REF}	2.7 to 5.5	1.35	Dual DAC, Separate Reference Inputs	I	DIP-16, SO-16	$7.25
LTC1454	12	2	±0.5	±4.5	14	Serial SPI	2.048V	0V to 4.096V/Ext V_{REF}	4.5 to 5.5	3.5	Dual DAC, Separate Reference Inputs	I	DIP-16, SO-16	$6.60
LTC1659	12	1	±0.5	±5.5	14	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	0.72	Single Supply, MSOP	I	MSOP-8, SO-8	$4.45
LTC1446L	12	2	±0.5	±5	14	Serial SPI	1.22V	0V to 2.5V	2.7 to 5.5	1.95	Dual in SO-8, Single 3V Supply	I	DIP-8, SO-8	$7.05
LTC1446	12	2	±0.5	±5	14	Serial SPI	2.048V	0V to 4.096V	4.5 to 5.5	5	Dual in SO-8, Single Supply	I	DIP-8, SO-8	$6.40
LTC2622	12	2	±0.5	±4	7	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	1.8	Pin Compatible Family 10,14,16-Bit and Ultralow Crosstalk	I	MSOP-8, DIP-8	$2.80
LTC2627	12	2	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	1.8	Pin Compatible Family 12,16-Bit and Ultralow Crosstalk	I	3×4 DFN-12	$3.08
LTC2627-1	12	2	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	1.8	Reset to Mid-Scale	I	3×4 DFN-12	$3.08
LTC2624	12	4	±0.5	±4	7	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	3	Pin Compatible Family 14,16-Bit and Ultralow Crosstalk	I	SSOP-16	$5.25
LTC2629	12	4	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	3	Pin Compatible Family 14,16-Bit and Ultralow Crosstalk	I	SSOP-16	$5.25
LTC2629-1	12	4	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	3	Reset to Mid-Scale	I	SSOP-16	$5.25
LTC2704-12	12	4	±1	±1	8	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, -2.5V to 7.5V	±4.5 to ±16.5	263	SoftSpan, Force/Sense Outputs, Readback	I	SSOP-44	$19.95
LTC2634-12	**12**	**4**	**±1**	**±2.5**	**4.2**	**Serial SPI**		**0V to 2.5V, 0V to 4.096V, 0V to V_{REF}**	**2.7 to 5.5**	**2.4**	**Quad, Rail-to-Rail Outputs with 10ppm/°C V_{REF} Tempco, Zero-Scale or Mid-Scale Reset**	**I, H**	**3×3 QFN-10, MSOP-10**	**$4.30**
LTC1458L	12	4	±0.5	±4.5	14	Serial SPI	1.22V	0V to 2.5V/Ext V_{REF}	2.7 to 5.5	2.4	Quad DAC, Separate Reference Inputs	I	SSOP-28, SO(W)-28	$12.95
LTC1458	12	4	±0.5	±4.5	14	Serial SPI	2.048V	0V to 4.096V/Ext V_{REF}	4.5 to 5.5	5.5	Quad DAC, Separate Reference Inputs	I	SSOP-28, SO(W)-28	$11.75
LTC2656-12	**12**	**8**	**±0.5**	**±1**	**5.5**	**Serial SPI**	**2.048V or Ext**	**0V to 5V, 0V to 4.096V**	**4.5 to 5.5**	**17.5 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/Mid-Scale Power-On Reset, SDO for Data Readback**	**I, H**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2656L-12	**12**	**8**	**±0.5**	**±1**	**5.5**	**Serial SPI**	**1.25V or Ext**	**0V to 5V, 0V to 2.048V**	**2.7 to 5.5**	**9.6 (Max)**	**Octal, 10ppm/°C (Max) Internal Reference Tempco, Zero-Scale/Mid-Scale Power-On Reset, SDO for Data Readback**	**I, H**	**4×5 QFN-20, TSSOP-20E**	**C.F.**
LTC2620	12	8	±0.5	±4	7	Serial SPI	Ext	0V to V_{CC}	2.5 to 5.5	6	Pin Compatible Family 8,10,14,16-Bit and Ultralow Crosstalk	I	SSOP-16, 4×5 QFN-20	$7.75
LTC2625	12	8	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	6	Pin Compatible Family 14,16-Bit and Ultralow Crosstalk	I	SSOP-16	$8.14
LTC2625-1	12	8	±0.5	±4	7	I²C	Ext	0V to V_{CC}	2.7 to 5.5	6	Reset to Mid-Scale	I	SSOP-16	$8.14
LTC2636-12	12	8	±1	±2	4.4	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Internal 2.5V or 4.096V Reference, Reset to Zero-Scale or Mid-Scale Options, <3.5nV-s Crosstalk	I, H	4×3 DFN-14, MSOP-16	$7.75
LTC2630-10	10	1	±0.5	±1	4	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{CC}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V Reference Options, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	SC70-6	$1.24
LTC2640-10	10	1	±0.5	±1	4	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.29
LTC2631-10	10	1	±0.5	±1	4	I²C	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.39

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

V_{OUT} DACs

Part Number	† Bits	# DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output Range	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1669	10	1	±0.75	±2.5	30	Serial I²C	2.5V	0V to V_{CC}	2.7 to 5.5	0.375	2-Wire Interface, SOT-23	I	TSOT-8, MSOP-8	$1.75
LTC1663	10	1	±0.75	±2.5	30	Serial SMBus	2.5V	0V to V_{CC}	2.7 to 5.5	0.375	2-Wire Interface, SOT-23	I	TSOT-8, MSOP-8	$1.75
LTC1662	10	2	±0.75	±4	750	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	7.5µW	1.5µA per DAC, Dual	I	MSOP-8, DIP-8	$2.65
LTC1661	10	2	±0.75	±2	30	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	0.29	Dual in MSOP	I	MSOP-8, DIP-8	$1.65
LTC2634-10	**10**	**4**	**±0.5**	**±1**	**3.8**	**Serial SPI**		**0V to 2.5V, 0V to 4.096V, 0V to V_{REF}**	**2.7 to 5.5**	**2.4**	**Quad, Rail-to-Rail Outputs with 10ppm/°C V_{REF} Tempco, Zero-Scale or Mid-Scale Reset**	**I, H**	**3×3 QFN-10, MSOP-10**	**$3.07**
LTC1664	10	4	±0.75	±2.5	19	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	1	Quad V_{OUT}, 60µA per DAC	I	SSOP-16, DIP-16	$2.95
LTC1660	10	8	±0.75	±2.5	30	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	1	Pin Compatible Family 8,12,14,16-Bit and 60µA per DAC	I	SSOP-16, DIP-16	$5.35
LTC2636-10	10	8	±0.5	±1	4	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Internal 2.5V or 4.096V Reference, Reset to Zero-Scale or Mid-Scale Options, <3.5nV-s Crosstalk	I, H	4×3 DFN-14, MSOP-16	$4.50
LTC2630-8	8	1	±0.5	±0.5	3.5	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{CC}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V Reference Options, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	SC70-6	$0.98
LTC2640-8	8	1	±0.5	±0.5	3.2	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V References Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.03
LTC2631-8	8	1	±0.5	±0.5	3.2	I²C	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	0.54	Internal 2.5V or 4.096V Reference Bonded Out, Reset to Zero-Scale or Mid-Scale Options, H-Grade	I, H	TSOT-8	$1.13
LTC2634-8	**8**	**4**	**±0.5**	**±0.5**	**3.3**	**Serial SPI**		**0V to 2.5V, 0V to 4.096V, 0V to V_{REF}**	**2.7 to 5.5**	**2.4**	**Quad, Rail-to-Rail Outputs with 10ppm/°C V_{REF} Tempco, Zero-Scale or Mid-Scale Reset**	**I, H**	**3×3 QFN-10, MSOP-10**	**$2.03**
LTC1665	8	8	±0.5	±1	30	Serial SPI	Ext	0V to V_{REF}	2.7 to 5.5	1	Pin Compatible Family 10,12,14,16-Bit and 60µA per DAC	I	SSOP-16, DIP-16	$3.00
LTC2636-8	8	8	±0.5	±0.5	3.4	Serial SPI	Int	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Internal 2.5V or 4.096V Reference, Reset to Zero-Scale or Mid-Scale Options, <3.5nV-s Crosstalk	I, H	4×3 DFN-14, MSOP-16	$2.85

† Primary Sort Column

CURRENT OUTPUT DACs

Part Number	† Bits	# DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output Range	Supply (V)	Power (µW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1599	16	1	±1	±1	1	Parallel	Ext	0V to 10V, 0V to –10V, ±10V	5	55	Byte Wide Input, On-Chip Resistors for 4-Quadrant Multiplication	I	SSOP-24	$15.90
LTC1597	16	1	±1	±1	1	Parallel	Ext	0V to 10V, 0V to –10V, ±10V	5	55	On-Chip Resistors, LTC1597-1 Resets to Mid-Scale	I	SSOP-28, DIP-28	$15.90
LTC1596	16	1	±1	±1	1	Serial SPI	Ext	0V to V_{REF}	5	55	LTC1596-1 Resets to Mid-Scale, 8143 Pinout	I	DIP-16, SO(W)-16	$12.75
LTC1595	16	1	±1	±1	1	Serial SPI	Ext	0V to V_{REF}	5	55	SO-8, Multiplying, 8043 Pinout	I	DIP-8, SO-8	$12.25
LTC1592	16	1	±1	±1	2	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	5	55	Software-Selectable Output Ranges without External Resistors or Switches	I	SSOP-16	$13.95
LTC2751-16	16	1	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	5×7 QFN-38	$8.50
LTC2753-16	16	2	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	7×7 QFN-48	$11.90
LTC2755-16	16	4	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	9×9 QFN-64	$17.85
LTC1591	14	1	±1	±1	1	Parallel	Ext	0V to 10V, 0V to –10V, ±10V	5	55	On-Chip Resistors, LTC1591-1 Resets to Mid-Scale, LTC1597 Pinout	I	SSOP-28, DIP-28	$8.95
LTC1589	14	1	±1	±1	2	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	5	55	Software-Selectable Output Ranges without External Resistors or Switches	I	SSOP-16	$9.95
LTC2751-14	14	1	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	5×7 QFN-38	$6.50
LTC2753-14	14	2	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	7×7 QFN-48	$9.10
LTC2755-14	14	4	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	9×9 QFN-64	$12.65
LTC2751-12	12	1	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	5×7 QFN-38	$4.95
LTC1588	12	1	±1	±1	2	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	5	55	Software-Selectable Output Ranges without External Resistors or Switches	I	SSOP-16	$5.95

† Primary Sort Column

CURRENT OUTPUT DACs

Part Number	† Bits	# DACs	DNL (LSB)	INL (LSB)	Settling Time (µs)	I/O	Int Ref	Output Range	Supply (V)	Power (µW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC8143	12	1	±0.5	±0.5	0.25	Serial	Ext	0V to V_{REF}	5	0.55mW	Upgrade to 16-Bit with LTC1596, Multiplying	I	DIP, SO(W)-16	$6.90
LTC8043	12	1	±0.5	±0.5	0.25	Serial	Ext	0V to V_{REF}	5	2.5mW	Upgrade to 16-Bit with LTC1595, Multiplying	I	DIP-8, SO-8	$4.80
LTC7545A	12	1	±0.5	±0.5	1	Parallel	Ext	0V to V_{REF}	5	0.55mW	Microprocessor Compatible I/O, Multiplying	I	DIP-20, SO(W)-20	$3.80
LTC7543	12	1	±0.5	±0.5	0.25	Serial	Ext	0V to V_{REF}	5	0.55mW	Multiplying	I	DIP-16, SO(W)-16	$6.70
LTC7541A	12	1	±0.5	±0.5	0.6	Parallel	Ext	0V to V_{REF}	5	0.55mW	Multiplying	I	DIP-18, SO(W)-18	$3.65
LTC2753-12	12	2	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	7×7 QFN-48	$5.95
LTC1590	12	2	±0.5	±0.5	1.5	Serial SPI	Ext	0V to V_{REF}	5	55	Dual, Multiplying, 0.5LSB Over Temp.	I	DIP-16, SO-16	$6.25
LTC2755-12	12	4	±1	±1	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, 2.5V to 7.5V	2.7 to 5.5	2.5	Extremely Low Power, SoftSpan, Data and Span Readback, Low 1nV·s Glitch Impulse	I	9×9 QFN-64	$7.15

† Primary Sort Column

SPECIAL FUNCTION DACs

Part Number	† Bits	# DACs	DNL (LSB)	I/O	Int Ref	Output Range	Supply (V)	Power (mW)	Comments	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1427-50	10	1	±0.9	SMBus/I²C	Ext	50µA sourcing	2.7 to 5.5	0.55	Ideal For Digital Voltage Adjustment on DC/DC Converters		SO-8	$3.00
LTC1428-50	8	1	±0.9	Pulse Mode	Ext	50µA sourcing	3 to 6.5	0.12	Ideal For Digital Voltage Adjustment on DC/DC Converters		SO-8	$2.55
LTC1329-50	8	1	±0.9	Pulse Mode	Ext	50µA sourcing	2.7 to 6.5	0.84	Ideal For Digital Voltage Adjustment on DC/DC Converters	I	SO-8	$2.55
LTC1329-10	8	1	±0.9	Pulse Mode	Ext	10µA sourcing	2.7 to 6.5	0.14	Ideal For Digital Voltage Adjustment on DC/DC Converters		SO-8	$2.55
LTC1840	8	2	±0.9	SMBus/I²C	Int	100µA sourcing	2.7 to 5.5	1.2	Fan Speed Controller with Two Tach Inputs and Four General Purpose I/O	I	SSOP-16	$2.75

† Primary Sort Column

MIXED SIGNAL MODULES

Part Number	Description	Integrated Components: ADC	Integrated Components: ADC Driver	Integrated Components: Passive Filter	IF Range	Gain Options (dB)	Output	Supply Voltage (V)	Power (Typ) (W)	Package	Price 1K Qty
LTM9001	16-/14-Bit IF Baseband Receiver Subsystem	16-Bit or 14-Bit, to 130Msps	√	√	To 300MHz	8, 14, 20 or 26	LVDS or CMOS	3.3	1.65	11.25×11.25×2.32 LGA	$82.00

MUXes AND SWITCHES

Part Number	† # Channels	R_{ON} (ohms)	Turn-On-Time (ns)	Supply Voltage (V)	Digital I/O	Features	Ext. Temp.	Package-Pins	Price 1K Qty
LTC1380	8	35	850	3 to ±5	SMBus/I²C	Precision Low Power, Break-Before-Make, SMBus/I²C 2-Wire Interface	I	SO-16, SSOP-16	$2.95
LTC1390	8	45	260	3 to ±5	Serial, Bidirectional	Precision Low Power, Break-Before-Make, Bidirectional Serial Interface		DIP-16, SO-16	$2.30
LTC1391	8	45	260	3 to ±5	Serial, SPI	Precision Low Power, Break-Before-Make, 3-Wire Serial SPI Interface	I	DIP-16, SSOP-16, SO-16	$2.30
LTC1393	4 (differential)	70	850	3 to ±5	SMBus/I²C	Precision Low Power, Break-Before-Make, SMBus/I²C 2-Wire Interface	I	SSOP-16, SO-16	$2.95
LTC201A	4	125	400	5 to ±15	Parallel	Low Power, Low Charge Injection, 5nA Leakage, DG201-Pin Compatible		DIP-16, SO-16	$2.30
LTC202	4	125	400	5 to ±15	Parallel	Low Power, Low Charge Injection, 5nA Leakage, DG202-Pin Compatible		DIP-16, SO-16	$2.00
LTC203	4	125	400	5 to ±15	Parallel	Low Power, Low Charge Injection, 5nA Leakage		DIP-16, SO-16	$2.40
LTC221	4	90	400	5 to ±15	Parallel, Latched	Low Power, Low Charge Injection, 5nA Leakage, DG221-Pin Compatible		DIP-16, SO-16	$2.45

† Primary Sort Column

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Interface

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RS232, EIA-530, EIA-530A,
RS449, V.35, V.36 or x.21
RS485, RS422

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Bus Buffers
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Part Number	† # Dr	# Rec	Supply (V)	Max Data Rate[1] (kbps)	Additional Supply	Typical Power (mW)	SHDN	# Rec Alive SHDN	Driver Disable	ESD (kV)	Charge Pump Caps	L (µH)	RS232 or RS562	Ext. Temp.	Package	Pins	Price 1K Qty
LTC2801	1	1	1.8 to 5	250		4.1	yes		yes	10	1 × 220nF, 2 × 1µF	10	RS232	I	4×3 DFN	12	$1.60
LTC2802	1	1	1.8 to 5	1000		4.1	yes		yes	10	1 × 220nF, 2 × 1µF	10	RS232	I	4×3 DFN	12	$1.65
LTC1385	2	2	3	250		0.66	yes		yes	10	4 × 0.1µF		RS562	I	SSOP/SO(W), DIP	20/18	$3.40
LTC1386	2	2	3	250		0.66				10	4 × 0.1µF		RS562	I	SO	16	$2.95
LTC1382	2	2	5	250		1.1	yes			10	4 × 0.1µF		RS232	I	SO(W), DIP	18	$3.40
LTC1383	2	2	5	250		1.1				10	4 × 0.1µF		RS232	I	SO, DIP	16	$2.95
LTC1384	2	2	5	250		1.1	yes	2		10	4 × 0.1µF		RS232	I	SSOP, SO(W), DIP	20/18	$3.40
LT1280A	2	2	5	250		40	yes			10	4 × 0.1µF		RS232	I	SO(W), DIP	18	$2.65
LT1281A	2	2	5	250		40				10	4 × 0.1µF		RS232	I	SO(W), DIP	16	$2.65
LT1381	2	2	5	250		40				10	4 × 0.1µF		RS232	I	SO	16	$1.90
LT1780	2	2	5	250		40	yes			15	4 × 0.1µF		RS232	I	SO(W), DIP	18	$2.75
LT1781	2	2	5	250		40				15	4 × 0.1µF		RS232	I	SO, SO(W), DIP	16	$2.75
LT1180A	2	2	5	250		45	yes			10	4 × 0.1µF		RS232	I	SO(W), DIP	18	$2.40
LT1181A	2	2	5	250		45				10	4 × 0.1µF		RS232	I	SO(W), DIP	16	$2.40
LTC2803	2	2	1.8 to 5	250		4.1	yes		yes	10	1 × 220nF, 2 × 1µF	10	RS232	I	5×3 DFN	16	$1.90
LTC2803-1	2	2	1.8 to 5	250		4.1	yes			10	1 × 220nF, 2 × 1µF	10	RS232	I	SSOP	16	$1.90
LTC2804	2	2	1.8 to 5	1000		4.1	yes		yes	10	1 × 220nF, 2 × 1µF	10	RS232	I	5×3 DFN	16	$1.95
LTC2804-1	2	2	1.8 to 5	1000		4.1	yes			10	1 × 220nF, 2 × 1µF	10	RS232	I	SSOP	16	$1.95
LT1039A	3	3	5	250	±12V	40	yes			15	none		RS232		SO(W), DIP	18, 16	$2.70
LTC1327	3	5	3	250		1.5	yes			10	4 × 0.1µF		RS562		SSOP, SO(W), DIP	28	$4.60
LTC1348	3	5	3	250		1.5	yes	5		10	5 × 0.1µF		RS232	I	SSOP, SO(W)	28	$4.40
LTC1350	3	5	3	250		1.5	yes	2		10	4 × 0.1µF		RS562	I	SSOP, SO(W), DIP	28	$4.60
LTC1337	3	5	5	250		1.5	yes	1		10	4 × 0.1µF		RS232		SSOP, SO(W), DIP	28	$4.60
LTC1347	3	5	5	250		1.5	yes	5		10	4 × 0.1µF		RS232		SSOP, SO(W), DIP	28	$4.60
LTC1349	3	5	5	250		1.5	yes	2		10	4 × 0.1µF		RS232	I	SSOP, SO(W), DIP	28	$4.60
LT1237	3	5	5	250		30	yes	1	yes	15	1 × 1.0µF, 5 × 0.1µF		RS232		SSOP, SO(W), DIP	28	$3.90
LT1330	3	5	5	250	3V	30	yes	1	yes	10	1 × 1.0µF, 5 × 0.1µF		RS232	I	SSOP, SO(W), DIP	28	$3.90
LT1137A	3	5	5	250		60	yes		yes	15	6 × 0.1µF		RS232	I	SSOP, SO(W), DIP	28	$3.70
LT1341	3	5	5	250		60	yes	1	yes	10	6 × 0.1µF		RS232		SSOP/SO(W)/DIP	28	$3.90
LT1342	3	5	5	250	3V	60	yes			10	6 × 0.1µF		RS232		SSOP, SO(W), DIP	28	$3.75
LT1537	3	5	5	250		60	yes		yes	2	6 × 0.1µF		RS232		SSOP, SO(W)	28	$2.80
LT1133A	3	5	5	250		125				15	6 × 0.1µF		RS232	I	SO(W), DIP	24	$3.90
LT1141A	3	5	5	250	±12V	195			yes	10	none		RS232		SO(W), DIP	24	$3.20
LT1331	3	5	3 5	250	3V	42 60	yes	1	yes	10	6 × 0.1µF		RS562/ RS232		SSOP, SO(W), DIP	28	$3.90
LT1032	4	0	±6	250		12	yes			2	none		RS232	I	SO, DIP	14	$2.45
LT1134A	4	4	5	250		125	yes			10	6 × 0.1µF		RS232	I	SO(W), DIP	24	$3.90
LT1139A	4	4	5	250	12V	195	yes			10	3 × 0.1µF		RS232		SO(W), DIP	24	$3.90
LT1136A	4	5	5	250		125	yes		yes	10	6 × 0.1µF		RS232		SO(W), DIP	28	$3.20
LTC1338	5	3	5	250		7.5	yes		yes	10	4 × 0.1µF		RS232	I	SSOP/SO(W), DIP	28	$5.05
LT1132A	5	3	5	250		125				10	6 × 0.1µF		RS232	I	SO(W), DIP	24	$3.90
LT1138A	5	3	5	250		125	yes		yes	10	6 × 0.1µF		RS232	I	SSOP, SO(W), DIP	28	$3.80
LT1135A	5	3	5	250	±12V	195				10	none		RS232		SO(W), DIP	20	$3.70
LT1140A	5	3	5	250	±12V	195	yes		yes	10	none		RS232		SO(W), DIP	24	$3.20
LT1131A	5	4	5	250		125	yes		yes	10	6 × 0.1µF		RS232		SO(W), DIP	28	$3.90
LT1130A	5	5	5	250		125				10	6 × 0.1µF		RS232	I	SO(W), DIP	28	$3.90

† Primary Sort Column

Note:

1. Data rate depends on load conditions

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	† # Dr	# Rec	Supply (V)	†† Max Data Rate	Max I_{CC} (mA)	SHDN	Industry Standard	ESD (kV)	Comments	Ext. Temp.	Package	Price 1K Qty
Half-Duplex												
LTC1685	1	1	5	52M	12		75176	4	High Speed, Failsafe	I	SO-8	$2.95
LTC2850	1	1	3.3	20M	900µA	yes	75176	15	High Speed, Failsafe	I, H	SO-8, MSOP-8, 3×3 DFN-8	$1.45
LTC2854	1	1	3.3	20M	900µA	yes		25	Integrated Switchable Termination	I, H	3×3 DFN-10	$1.55
LTC2859	1	1	5	20M	900µA	yes		15	Integrated Switchable Termination, Driver Slew Rate Control	I	3×3 DFN-10	$1.55
LTC2856-1*	1	1	5	20M	900µA	yes	75176	15	Failsafe, Hot Swappable	I, H	MSOP-8, 3×3 DFN-8	$1.45
LTC1485	1	1	5	10M	3.5		75176	10		I	SO-8, DIP-8	$1.60
LTC1484	1	1	5	4M	900µA	yes	75176	15	Failsafe, Shutdown	I	MSOP-8, SO-8, DIP-8	$1.65
LTC1482	1	1	5	4M	700µA	yes		15	Carrier Detect, Failsafe, Shutdown	I	MSOP-8, SO-8, DIP-8	$1.95
LTC1480	1	1	3.3	2.5M	500µA	yes	75176	10	3.3V Operation	I	SO-8, DIP-8	$2.55
LTC485	1	1	5	2.5M	500µA		75176	4		I	SO-8, DIP-8	$1.30
LTC1481	1	1	5	2.5M	500µA	yes	75176	10	Low Power Shutdown Mode	I	SO-8, DIP-8	$1.45
LTC1487	1	1	5	250k	200µA	yes	75176	10	Low EMI, 256 Nodes, Shutdown		SO-8, DIP-8	$1.45
LTC2856-2*	1	1	5	250k	900µA	yes	75176	15	Slew Rate Limited, Failsafe, Hot Swappable	I, H	MSOP-8, 3×3 DFN-8	$1.45
LT1785	1	1	5	250k	9	yes	75176	15	±60V Fault-Protected, Failsafe, Low EMI	I, H	SO-8, DIP-8	$1.95
LTC1483	1	1	5	150k	500µA	yes	75176	10	Low EMI, Shutdown	I	SO-8, DIP-8	$1.45
Full-Duplex												
LTC1687	1	1	5	52M	12		75ALS180	4	High Speed, Failsafe	I	SO-14	$4.20
LTC1686	1	1	5	52M	12		75179	4	High Speed, Failsafe	I	SO-8	$4.20
LTC2851	1	1	3.3	20M	900µA		75179	15	High Speed, Failsafe, No RCVR/DRVR Enable Pins	I , H	SO-8, MSOP-8, 3×3 DFN-8	$1.55
LTC2852	1	1	3.3	20M	900µA	yes	75ALS180	15	High Speed, Failsafe	I, H	SO-14, MSOP-10, 3×3 DFN-10	$1.55
LTC2855	1	1	3.3	20M	900µA	yes		15	Integrated Switchable Termination	I, H	4×3 DFN-12, SSOP-16	$1.70
LTC2861	1	1	5	20M	900µA	yes		15	Integrated Switchable Termination, Drvr Slew Rate Control	I	4×3 DFN-12, SSOP-16	$1.70
LTC2857-1*	1	1	5	20M	900µA		75719	15	Failsafe, Hot Swappable	I, H	MSOP-8, 3×3 DFN-8	$1.55
LTC2858-1	1	1	5	20M	900µA	yes		15	Failsafe, Hot Swappable	I, H	MSOP-10, 3×3 DFN-10	$1.55
LTC1690	1	1	5	5M	600µA	yes	75179	15	Failsafe	I	MSOP-8, SO-8	$1.65
LTC491	1	1	5	2.5M	500µA		75ALS180	10		I	SO-14, DIP-14	$2.65
LTC490	1	1	5	2.5M	500µA		75179	10		I	SO-8, DIP-8	$2.40
LTC1535	1	1	5	350k	13			8	2500V Isolation	I	SO(W)-28	$5.35
LTC2857-2*	1	1	5	250k	900µA		75179	15	Slew Rate Limited, Failsafe, Hot Swappable	I, H	MSOP-8, 3×3 DFN-8	$1.55
LTC2858-2	1	1	5	250k	900µA	yes		15	Slew Rate Limited, Failsafe, Hot Swappable	I, H	MSOP-10, 3×3 DFN-10	$1.55
LT1791	1	1	5	250k	9	yes	75ALS180	15	±60V Fault-Protected, Failsafe	I	SO-14, DIP-14	$2.15
Quad Drivers and Receivers												
LTC1689	4	0	5	100M	18		75174	4	High Speed, Hot Swap Capable	I	SO-16	$4.95
LTC1688	4	0	5	100M	18		75172	4	High Speed, Hot Swap Capable	I	SO-16	$4.95
LTC487	4	0	5	10M	150µA		75174	4		I	SO(W)-16, DIP-16	$3.55
LTC486	4	0	5	10M	150µA		75172	4		I	SO(W)-16, DIP-16	$3.55
LTC1519	0	4	5	52M	20		75175	4	High Speed	I	SO-16	$5.35
LTC1518	0	4	5	52M	20		75173	4	High Speed	I	SO-16	$5.35
LTC1520	0	4	5	50M	20			4	High Speed, LVDS-Compatible		SO-16	$5.35
LTC489	0	4	5	10M	10		75175	10		I	SO(W)-16, DIP-16	$3.55
LTC488	0	4	5	10M	10		75173	10		I	SO(W)-16, DIP-16	$3.55
Controller Area Network (CAN-bus)												
LT1796	1	1	5	125k	7	yes	82C250	15	±60V Fault Protected, Half-Duplex	I	SO-8	$1.50

† Primary Sort Column
†† Secondary Sort Column

* Proprietary Packages with Industry Standard Pinout

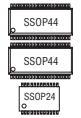
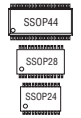
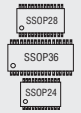
SMART CARD/SIM INTERFACE

Part Number	V_{IN} (V)	V_{OUT} (V)	Max I_{OUT} (mA)	Ext. Temp.	Quiescent Current (µA)	Package	Comment	Price 1K Qty
Singles								
LTC1555	2.7 to 10	5	20	I	60	SSOP-16	650kHz, SIM Power Supply & Level Translator	$2.00
LTC1555L	2.6 to 6.6	3/5	20	E	40	SSOP-16	SIM Power Supply & Level Translator	$2.00
LTC1555L-1.8	2.6 to 6.6	1.8/3/5	20	E	32	SSOP-16	SIM Power Supply & Level Translator	$2.00
LTC1556	2.7 to 10	5	20	I	60	SSOP- 20	650kHz, SIM Power Supply & Level Translator, Aux 4.3V LDO	$3.35
LTC1755	2.7 to 6	3/5	60	E	60	SSOP-24	Single Smart Card Interface, DV_{CC} and AUX Pins, Additional Cards Can be Paralleled	$2.55
LTC1756	2.7 to 5.5	3/5	60	E	60	SSOP-16	Single Smart Card Interface	$2.30
LTC4555	3.0 to 6.0	1.8/3.0	50	E	20	3×3 QFN-16	SIM Power Supply & Level Translator	$1.20
LTC4556	2.7 to 5.5	1.8/3.0/5.0	60	E	250	4×4 QFN-24	Smart Card Interface with Serial Control	$1.85
Duals								
LTC1955	2.7 to 5.5	1.8/3.0/5.0	50	E, I	250	5×5 QFN-32	Dual Smart Card Interface with Serial Control	$2.45
LTC4557	2.7 to 5.5	1.8/3.0	50	E	100	3×3 QFN-16	Dual Smart Card Interface with Serial Control	$1.50
LTC4558	2.7 to 5.5	1.8/3.0	50	E	65	3×3 QFN-20	Dual Smart Card Interface, Independent Channel Select & Separate ENABLE Pins	$1.55

MULTIPROTOCOL

Part Number	# Dr	# Rec	Protocols Supported	Supply	Additional Supplies	Signals	Additional Signals	DCE or DTE	Termination	ESD	Ext. Temp.	Package	Price 1K Qty
LTC1321	2	2	RS232/RS562, RS422/RS485	5V	±6.5V or ±5V					10kV	I	SO(W)-24, DIP-24	$4.60
LTC1322	4 or 2	4 or 2	RS232/RS562, RS422/RS485	5V	±6.5V or ±5V					4kV	I	SO(W)-24, DIP-24	$5.25
LTC1323	2	3	LocalTalk, RS232 and RS422	5V		Data, Control		DTE		4kV		SSOP-28, SO(W)-24, SO-16	$4.60
LTC1324	1	1	LocalTalk, RS422	5V		Data		DTE or DCE		4kV		SO-16, DIP-16	$3.60
LTC1334	4 or 2	4 or 2	RS232, RS422/RS485	5V						10kV	I	SSOP-28, SO(W)-28, DIP-28	$6.50
LTC1335	4 or 2	4 or 2	RS562, RS422/RS485	5V	±5V					4kV	I	SO(W)-24, DIP-24	$5.25
LTC1387	2 or 1	2 or 1	RS232, RS422/RS485	5V						4kV	I	SSOP-20, SO(W)-20	$4.50
LTC1343	4	4	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V		Data, Clock or Control	LL, RL, TM	DTE or DCE		4kV	I	SSOP-44	$12.60
LTC1344	n/a	n/a	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V					yes	4kV	I	SSOP-24	$6.40
LTC1344A	n/a	n/a	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V					yes	4kV	I	SSOP-24	$6.40
LTC1345	3	3	V.35	5V		Data, Clock		DTE or DCE		4kV	I	SO(W)-28, DIP-28	$7.30
LTC1346A	3	3	V.35	±5V		Data, Clock		DTE or DCE		4kV	I	SO(W)-24	$6.75
LTC1543	3	3	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V		Data, Clock		DTE or DCE		4kV	I	SSOP-28	$7.00
LTC1544	4	4	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V		Control	LL	DTE or DCE		4kV	I	SSOP-28	$5.75
LTC1545	5	5	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V		Control	LL, RL, TM	DTE or DCE		4kV	I	SSOP-36	$6.75
LTC1546	3	3	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V		Data, Clock		DTE or DCE	Included	4kV	I	SSOP-28	$11.65
LTC2844	4	4	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	3.3V		Control	LL	DTE or DCE		4kV	I	SSOP-28	$5.75
LTC2845	5	5	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	3.3V		Control	LL, RL, TM	DTE or DCE		4kV	I	SSOP-36	$6.75
LTC2846	3	3	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	3.3V		Data, Clock		DTE or DCE	Included	4kV	I	SSOP-36	$11.65
LTC2847	3	3	EIA530, EIA530-A, RS232, RS449, V,35, V.36, X.21	5V	3V	Data, Clock		DTE or DCE	Included	4kV	I	5×7 QFN-38	$10.90

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Kit Number	Part Numbers	Complete Solution For	Cable Termination	Signals	Additional Signals	Supply	Ext. Temp.	ESD	Packages	Price 1K Qty
LTCK002	2xLTC1343, 1xLTC1344	RS232, RS449, EIA530, EIA530-A, V.35, V.36 or X.21	yes	Data, Clock, or Control	LL, RL, TM	5V	I	4kV		$32.50
LTCK003	LTC1543, LTC1544, LTC1344A	RS232, RS449, EIA530, EIA530-A, V.35, V.36 or X.21	yes	Data, Clock, Control	LL	5V	I	4kV		$19.95
LTCK004	LTC1343, LTC1544, LTC1344A	RS232, RS449, EIA530, EIA530-A, V.35, V.36 or X.21	yes	Data, Clock, Control	LL, RL, TM	5V		4kV		$24.75
LTCK006	LTC1543, LTC1545, LTC1344A	RS232, RS449, EIA530, EIA530-A, V.35, V.36 or X.21	yes	Data, Clock, Control	LL, RL, TM	5V	I	4kV		$20.70
LTCK011	LTC1546, LTC1544	RS232, RS449, EIA530, EIA530-A, V.35, V.36 or X.21	yes	Data, Clock, Control	LL	5V	I	4kV		$16.65
LTCK012	LTC1546, LTC1545	RS232, RS449, EIA530, EIA530-A, V.35, V.36 or X.21	yes	Data, Clock, Control	LL, RL, TM	5V	I	4kV		$17.40

I²C and SMBus BUFFERs and ACCELERATORs

Part Number	Rise Time Accel	Hot Swappable Bus Buffers	Bidirectional Level Translation (V)	Level Translation Method	Stuck Bus Disconnect/ Recovery	Enable	Ready	Addressable	GPIO or Fault Flags	Data Rate	Ext. Temp	Comments	Package	Price 1K Qty
LTC4311	yes					yes				400kHz	I	1.6V to 5.5V Supply Voltage, Low Power	SC70, 2×2 DFN-6	$1.55
LTC1694	yes									100kHz	I	Adds DC Pull-Up Current	ThinSOT	$1.30
LTC1694-1	yes									100kHz	I		ThinSOT	$1.30
LTC4300A-1	yes	yes	2.7 to 5.5	Auto, $V_{PULL-UP} \geq V_{CC}$		yes	yes			400kHz	I		MSOP-8	$1.75
LTC4300A-2	yes(1)	yes	2.7 to 5	V_{CC} Pins						400kHz	I		MSOP-8	$1.75
LTC4300A-3	yes	yes	2.7 to 5	V_{CC} Pins		yes				400kHz	I		MSOP-8, 3×3 DFN-8	$1.75
LTC4301		yes	2.7 to 5	Auto		yes	yes			400kHz	I		MSOP-8, 3×3 DFN-8	$1.95
LTC4301L		yes	1 to 2.7/5.5(2)	Auto		yes	yes			400kHz	I	Level Translates from 1V	MSOP-8, 3×3 DFN-8	$2.05
LTC4302-1	yes	yes	2.7 to 5.5	Auto, $V_{PULL-UP} \geq V_{CC}$		yes		yes	yes	400kHz	I	2GPIOs	MSOP-10	$2.50
LTC4302-2	yes(1)	yes	2.7 to 5	V_{CC} Pins		yes		yes	yes	400kHz	I	1GPIO, 2nd V_{CC2} Supply for Level Shifting	MSOP-10	$2.50
LTC4303	yes	yes	2.7 to 5.5	Auto, $V_{PULL-UP} \geq V_{CC}$	Both	yes	yes			400kHz	I		MSOP-8, 3×3 DFN-8	$2.10
LTC4304	yes(1)	yes	2.7 to 5.5	Auto	Both	yes	yes		yes	400kHz	I		MSOP-10, 3×3 DFN-10	$2.20
LTC4305	yes(1)	yes	2.2 to 5.5	Auto	Disconnect	yes		yes	yes	400kHz	I	2:1Multiplexer, 27 Distinct Addresses	SSOP-16, 4×5 DFN-16	$2.80
LTC4306	yes(1)	yes	2.2 to 5.5	Auto	Disconnect	yes		yes	yes	400kHz	I	4:1Multiplexer, 27 Distinct Addresses	SSOP-24, 4×5 QFN-24	$3.50
LTC4307	yes	yes	2.3 to 5.5	Auto, $V_{PULL-UP} \geq V_{CC}$	Both	yes	yes			400kHz	I	Low 60mV Offset Voltage	MSOP-8, 3×3 DFN-8	$2.15
LTC4307-1		yes	2.3 to 5.5	Auto, $V_{PULL-UP} \geq V_{CC}$		yes	yes			400kHz	I	For HDMI DDC Bus, HDMI Compliant, 60mV Offset Voltage	MSOP-8, 3×3 DFN-8	$2.15
LTC4308	yes	yes	1 to 2.3/5.5(3)	Auto	Both	yes	yes			400kHz	I	–200mV V_{OS} Input-to-Output, 300mV V_{OS} Output-to-Input	MSOP-8, 3×3 DFN-8	$2.15
LTC4309	yes(1)	yes	2.3 to 5.5	Auto	Both	yes	yes		yes	400kHz	I	Low 60mV Offset Voltage	SSOP-16, 4×3 DFN-12	$2.25
LTC4310	yes	yes	3 to 5.5	Auto	Both	yes	yes			400kHz	I	Hot Swappable I²C Isolator	MSOP-10, 3×3 DFN-10	C.F.

Notes:
1. Rise time accelerator circuitry can be disabled
2. SCL_{IN} and SDA_{IN} down to 1V, SDA_{OUT} and SCL_{OUT} from 2.7V to 5.5V
3. SCL_{IN} and SDA_{IN} down to 1V, SDA_{OUT} and SCL_{OUT} from 2.3V to 5.5V

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

High Frequency

Part Number	Features	Min Frequency (MHz)	Max Frequency (MHz)	Min Detect (dBm)	Max Detect (dBm)	† Dynamic Range (dB)	Accuracy (dB)	Demod BW (MHz)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
RMS Detectors													
LT5570	Fast 50dB Dynamic Range RMS Detector	40	2700	–52	13	62	±0.3	0.05	4.75	5.25	26.5	3×3 DFN-10	$5.75
LT5581	6GHz 40dB Dynamic Range RMS Detector	10	6000	–40	10	40	±1.0	0.05	2.7	5.25	1.4	3×2 DFN-8	$2.29
High Dynamic Range Log Detectors													
LT5537	Log Linear Detector	10	1000	–76	14	83	1		2.7	5.25	13.5	3×2 DFN-8	$2.95
LT5504	Log Linear Detector / Receiver	800	2700	–80	2	80	2	2	2.7	5.25	14.7	MSOP-8	$6.50
LT5538	75dB Dynamic Range Log Detector	40	3800	–75	10	70	±0.8	2	3	5.25	29	3×3 DFN-8	$4.50
LT5534	High Accuracy Log Detector	50	3000	–63	2	60	0.5	30	2.7	5.25	7	2×2 SC70	$4.50
Schottky Peak Detectors													
LTC5507	Low Frequency Detect	0.1	1000	–32	14	46	–	2	2.7	6	0.55	ThinSOT	$1.45
LTC5505-1	Low Cost, High Signal Level	300	3000	–28	18	46	–	4	2.7	6	0.5	ThinSOT	$1.15
LTC5508	7GHz, with Shutdown	300	7000	–32	12	44	–	2	2.7	6	0.55	2×2 SC70	$1.45
LTC5505-2	Low Cost	300	3500	–32	12	44	–	4	2.7	6	0.5	ThinSOT	$1.15
LTC5532ES6	Precision with Gain + V_{OS} Adj	300	7000	–32	10	42	–	2	2.7	6	0.5	ThinSOT	$1.50
LTC5532EDC	12 GHz, with Gain + V_{OS} Adj	300	12000	–32	10	42	–	2	2.7	6	0.5	2×2 DFN-6	$1.70
LTC5531	Precision with Shutdown, V_{OS} Adj	300	7000	–32	10	42	–	2	2.7	6	0.5	ThinSOT	$1.25
LTC5533	Dual, Shutdown, V_{OS} Adj	300	11000	–32	12	44	–	2	2.7	6	0.9	4×3 DFN-12	$3.20
LTC5530	Precision with Shutdown, Gain Adj	300	7000	–32	10	42	–	2	2.7	6	0.5	ThinSOT	$1.30
LTC5535	Wide Demodulation BW, Gain + V_{OS} Adj	600	7000	–32	10	42	–	12	2.7	5.5	2	ThinSOT	$1.55
LTC5536	Detector + Comparator	600	7000	–26	12	38	–	–	2.7	5.5	2.1	ThinSOT	$2.25
LTC5509	No Compression	300	3000	–30	6	36	–	1.5	2.7	6	0.58	2×2 SC70	$1.35

† Primary Sort Column

UPCONVERTING MIXERS

Part Number	Features	Min Frequency (MHz)	Max Frequency (MHz)	† IIP3 (dBm)	NF (dB)	Conversion Gain (dB)	LO Drive (dBm)	LO-RF Isolation (dBc)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
LT5579	Ultra-Linear, Integrated Balun, Low Noise	1500	3800	29	9.2	1.8	–1	35	3.15	3.6	226	5×5 QFN-24	$5.50
LT5578	**Ultra-Linear, Integrated Balun, Low Noise**	**400**	**2700**	**26**	**9.5**	**0.5**	**–1**	**40**	**3.15**	**3.5**	**147**	**5×5 QFN-24**	**C.F.**
LT5521	High Linearity, Broadband	10	3700	24.2	12.5	–0.5	–5	37	3.15	5.25	82	4×4 QFN-16	$4.95
LT5519	Integrated Balun	700	1400	17.1	13.6	–0.6	–5	39	4.5	5.25	60	4×4 QFN-16	$4.15
LT5511	Broadband	10	3000	17	15	0	–10	36	4	5.25	56	TSSOP-16	$3.70
LT5520	Integrated Balun	1300	2300	15.9	15	–1	–5	36	4.5	5.25	60	4×4 QFN-16	$4.15
LT5560	Very Low Power, Broadband	0.01	4000	9.0	9.3	2.4	–2	39	2.7	5.3	10	3×3 DFN-8	$1.56

† Primary Sort Column

DOWNCONVERTING MIXERS

Part Number	Features	Min Frequency (MHz)	Max Frequency (MHz)	† IIP3 (dBm)	NF (dB)	Conversion Gain (dB)	LO Drive (dB)	LO-RF Isolation (dBc)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
LT5557	3.3V, Integrated Transformers	400	3800	24.7	11.7	2.9	–3	42	2.9	3.9	81.6	4×4 QFN-16	$5.95
LT5521	Upconverting & Downconverting Mixer	DC	350	24	–	–	–	–	3.15	5.5	80	4×4 QFN-16	$4.95
LT5527	5V, Integrated Transformers	400	3700	23.5	12.5	2.3	–3	41	4.5	5.25	78	4×4 QFN-16	$5.80
LT5522	Integrated Transformer	450	2700	21.5	13.9	–0.1	–5	45	4.5	5.25	56	4×4 QFN-16	$5.20
LT5525	Integrated Transformer, Low Power	450	2500	18	15	–1.7	–5	38	3.0	5.3	28	4×4 QFN-16	$3.80

† Primary Sort Column

DOWNCONVERTING MIXERS

Part Number	Features	Min Frequency (MHz)	Max Frequency (MHz)	† IIP3 (dBm)	NF (dB)	Conversion Gain (dB)	LO Drive (dB)	LO-RF Isolation (dBc)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
LT5512	Broadband	DC	3000	17	14	1	–10	43	4.5	5.25	57	4×4 QFN-16	$3.70
LT5526	Low Power	0.1	2000	14.1	13.7	0.4	–5	50	3.0	5.3	28	4×4 QFN-16	$3.40
LT5560	Very Low Power	0.01	4000	9.7	10.1	2.6	–2	55	2.7	5.3	10	3×3 DFN-8	$1.56
LT5500	LNA + Mixer	1800	2700	–2.5	4	5	–10	37	1.8	5.25	23	SSOP-24	$3.20

† Primary Sort Column

QUADRATURE MODULATORS

Part Number	Features	Min Frequency (MHz)	Max Frequency (MHz)	† OIP3 (dBm)	Noise Floor (dBm/Hz)	Image Supp (dBc)	LO Supp (dBc)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
LTC5598	**Super High Linearity**	**30**	**1600**	**28**	**–160.5**	**–45**	**–52**	**4.5**	**5.25**	**160**	**4×4 QFN-16**	**C.F.**
LT5518	R_{IN}=3kΩ, V_{CM}=2.1V	1500	2400	22.8	–158.2	–40	–49	4.5	5.25	128	4×4 QFN-16	$4.95
LT5568	R_{IN}=50Ω, V_{CM}=0.54V	750	1100	22.7	–159.6	–46	–45	4.5	5.25	117	4×4 QFN-16	$5.35
LT5568-2	GSM Optimized Image Rej.	700	1000	22.9	–159.4	–52	–43	4.5	5.25	110	4×4 QFN-16	$5.35
LT5558	R_{IN}=3kΩ, V_{CM}=2.1V	600	1100	22.4	–158	–49	–43.7	4.5	5.25	108	4×4 QFN-16	$5.35
LT5528	R_{IN}=50Ω, V_{CM}=0.53V	1500	2400	21.8	–159	–45	–42	4.5	5.25	125	4×4 QFN-16	$4.95
LT5571	R_{IN}=90k, V_{CM}=0.5V	620	1100	21.7	–159	–53	–42	4.5	5.25	97	4×4 QFN-16	$4.95
LT5572	R_{IN}=90k, V_{CM}=0.5V	1500	2500	21.6	–158.6	–41.2	–39.4	4.5	5.25	120	4×4 QFN-16	$4.95
LT5503	Operates Down to 1.8V	1200	2700	2	–142	–34	–32	1.8	5.25	11.9	TSSOP-20	$3.85

† Primary Sort Column

QUADRATURE DEMODULATORS

Part Number	Features	Min Frequency (MHz)	Max Frequency (MHz)	† IIP3 (dBm)	P1 (dB)	NF (dB)	Conversion Gain (dB)	I/Q Gain Mismatch (dB)	I/Q Phase Mismatch (degrees)	LO-RF Isolation (dBc)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
LT5575	Integrated Transformers	800	2700	28	13.2	12.8	3	0.03	0.5	–60.8	4.5	5.25	132	4×4 QFN-16	$7.75
LT5516	Direct Conversion Demod	800	1500	21.5	9	12.8	4.3	0.2	1	–55	4	5.25	117	4×4 QFN-16	$7.40
LT5517	2 x LO Input	40	900	21	10	12.4	3.3	0.03	0.7	–59	4.5	5.25	90	4×4 QFN-16	$7.40
LT5515	Direct Conversion Demod	1500	2500	20	9	16.8	–0.7	0.3	1	–41	4	5.25	125	4×4 QFN-16	$6.75
LT5506	VGA + 8.8MHz LPF	40	500	–0.5	–11.5	6.8	0.9 to 59	0.2	0.6	–	1.8	5.25	26.5	4×4 QFN-16	$3.35
LT5546	VGA + 17MHz LPF	40	500	–1	–10	7.8	1.6 to 56	0.14	0.6	–	1.8	5.25	24	4×4 QFN-16	$3.35
LT5502	IF Limiter + RSSI	70	400	–	–	4	–	0.1	0.6	–	1.8	5.25	25	SSOP-24	$5.25

† Primary Sort Column

POWER AMPLIFIER CONTROLLERS

Part Number	Application	Compatible PA	Min Frequency (MHz)	Max Frequency (MHz)	# Ch.	Min P_{IN} (dBm)	Max P_{IN} (dBm)	Loop BW (kHz)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
LTC1757A-1	GSM		850	2000	1	–22	16	400	2.7	6	1	MSOP-8	$1.75
LTC1757A-2	GSM		850	2000	2	–22	16	400	2.7	6	1	MSOP-10	$1.90
LTC1758-1	GSM/GPRS	Philips BGY280 Conexant RM009, Conexant CX77302, Anadigics AWT6102, Anadigics AWT6107	850	2000	1	–24	16	250	2.7	6	1.1	MSOP-8	$1.65
LTC1758-2	GSM/GPRS	Philips BGY280, Conexant RM009, Conexant CX77302, Anadigics AWT6102, Anadigics AWT6107 Hitachi PF08107, Hitachi PF08123B	850	2000	1	–24	16	250	2.7	6	1.1	MSOP-8	$1.65

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Part Number	Application	Compatible PA	Min Frequency (MHz)	Max Frequency (MHz)	# Ch.	Min P_{IN} (dBm)	Max P_{IN} (dBm)	Loop BW (kHz)	Supply Voltage Min (V)	Supply Voltage Max (V)	Supply Current (mA)	Package	Price 1K Qty
LTC1957-1	GSM/GPRS		850	2000	2	–26	16	370	2.7	6	1	MSOP-8	$1.70
LTC1957-2	GSM/GPRS		850	2000	2	–26	16	370	2.7	6	1	MSOP-10	$1.70
LTC4400-1	GSM/GPRS	Hitachi PF08109B, Hitachi PF08122B, Hitachi PF08123B, Hitachi PF08107B, RFMD RF3108	800	2700	1	–26	18	450	2.7	6	1.2	SOT-23	$1.20
LTC4400-2	GSM/GPRS	Hitachi PF08109B, Hitachi PF08122B, Hitachi PF08123B, Hitachi PF08107B, RFMD RF3108	800	2000	2	–26	18	450	2.7	6	1.2	MSOP-8	$1.20
LTC4401-1	GSM/GPRS	Conexant CX77301, Conexant CX77302, Conexant CX77304, Conexant CX77314, Anadigics AWT6107, RFMD RF3160	800	2700	1	–26	18	250	2.7	6	1.2	SOT-23	$1.20
LTC4401-2	GSM/GPRS	Conexant CX77301, Conexant CX77302, Conexant CX77304, Conexant CX77314, Anadigics AWT6107, RFMD RF3160	800	2000	2	–26	18	450	2.7	6	1.2	MSOP-8	$1.60
LTC4402-1	GSM/EDGE/TDMA		300	2400	1	–25	18	450	2.7	6	1.5	MSOP-8	$1.60
LTC4402-2	EDGE/TDMA		300	2400	2	–25	18	450	2.7	6	1.5	MSOP-10	$1.90
LTC4403-1	GSM/GPRS/EDGE		300	2400	1	–25	18	250	2.7	6	1.5	MSOP-8	$1.60
LTC4403-2	GSM/GPRS/EDGE		300	2400	2	–25	18	250	2.7	6	1.5	MSOP-10	$1.90

HIGH SPEED ADC DRIVERS

Part Number	Features	Min Frequency (MHz)	† –3dB Bandwidth/ f_{CUTOFF} (MHz)	OIP3 (dBm)	HD2 (dBc)	HD3 (dBc)	Noise Figure (dB)	Min Gain (dB)	Max Gain (dB)	Supply Voltage Min (V)	Supply Voltage Max (V)	Maximum Supply Current (mA)	Package	Price 1K Qty
Singles														
LTC6401-8	Fixed 8dB Gain, 140MHz IF Differential ADC Driver, Low Power	DC	2220	50 @ 70MHz	–100 @ 70MHz	–87 @ 70MHz	12.2	8	8	2.85	3.5	60	3×3 QFN-16	$2.95
LTC6400-8	2.2GHz Low Noise, Low Distortion Differential ADC Driver for DC-300MHz	DC	2200	46 @ 140MHz	–91@140MHz	–81@140MHz	7.6	8	8	2.85	3.5	95	3×3 QFN-16	$3.20
LTC6416	16-Bit, 2GHz Differential ADC Buffer	DC	2000	40 @ 300MHz	–73@300MHz	67.5@300MHz	6.4	0		2.7	4	51	3×2 DFN-10	$3.50
LTC6401-14	Fixed 14dB Gain, Low Noise/Distortion, 140MHz IF ADC Driver, Low Power	DC	1950	49.3 @ 70MHz	–101 @ 70MHz	–89 @ 70MHz	7.3	14	14	2.85	3.5	60	3×3 QFN-16	$2.95
LTC6400-26	Fixed 26dB Gain, Low Noise/Distortion, 300MHz IF Differential ADC Driver	DC	1900	48 @ 140MHz	–81 @ 140MHz	–83 @ 140MHz	6.6	26	26	2.85	3.5	102	3×3 QFN-16	$3.20
LTC6400-14	1.9GHz Low Noise, Low Distortion Differential ADC Driver for 300MHz IF	DC	1860	47 @ 140MHz	–81@140MHz	–79 @ 140MHz	7.7	14	14	2.85	3.5	96	3×3 QFN-16	$3.20
LTC6400-20	Fixed 20dB Gain, Low Noise/Distortion Differential 300MHz IF ADC Driver	DC	1840	48 @ 140MHz	–73 @ 140MHz	–83 @ 140MHz	6.2	20	20	2.85	3.5	105	3×3 QFN-16	$3.20
LTC6401-26	Fixed 26dB Gain, Low Noise/Distortion, 140MHz IF Diff ADC Driver, Low Power	DC	1600	47 @ 70MHz	–86 @ 70MHz	–81 @ 70MHz	6.7	26	26	2.85	3.5	60	3×3 QFN-16	$2.95
LTC6410-6	Fixed 6dB Gain, Low Noise/Distortion Differential ADC Driver, Configurable Input Impedance	DC	1400	33 @ 140MHz	–80 @ 140MHz	–62 @ 140MHz	11	6	6	2.8	5.25	130	3×3 QFN-16	$2.89
LTC6401-20	Fixed 20dB Gain, Low Noise/Distortion, Differential 140MHz IF, Low Power	DC	1250	51 @ 70MHz	–95 @ 70MHz	–88 @ 70MHz	6.1	20	20	2.85	3.5	62	3×3 QFN-16	$2.95
LT5554	Digitally Prog. Gain Amp, 0.125dB Steps	LF	1000	48 @ 200MHz	–80 @ 140MHz	–80 @ 50 MHz	10	1.7	17.6	4.75	5.25	200	5×5 QFN-32	$4.40
LT1993-4	Fixed 12dB Gain	DC	900	43 @ 50MHz	–82 @ 50MHz	–80 @ 50MHz	14.5	12	12	4	5.5	112	3×3 QFN-16	$2.95
LT5514	Digitally Prog. Gain, 1.5dB Steps	10	850	47 @ 50MHz	–82 @ 50MHz	–72 @ 50MHz	7.4	10.5	33	4.75	5.25	174	TSSOP-20	$5.20
LTC6412	**Fully Differential, 31dB Range Control, Analog VGA**	**10**	**800**	**36 @ 70MHz**	**–85 @ 70MHz**	**–70 @ 70MHz**	**9**	**–14**	**17**	**3**	**3.6**	**120**	**4×4 QFN-24**	**C.F.**
LTC6405	2.7GHz, 5V, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	DC	800	36 @ 50MHz	–91@30MHz	–85@30MHz	14.4	0		4.5	5.5	23	3×3 QFN-16	$3.44
LTC6406	3GHz GBW, Low Noise/Distortion, Differential	DC	800	37 @ 50MHz	–85 @ 50MHz	–72 @ 50MHz	14.1	0		2.7	3.5	22	3×3 QFN-16	$3.44
LT1993-2	Fixed 6dB Gain	DC	800	45 @ 50MHz	–80 @ 50MHz	–77 @ 50MHz	11.8	6	6	4	5.5	112	3×3 QFN-16	$2.95
LT1993-10	Fixed 20dB Gain	DC	700	44 @ 50MHz	–80 @ 50MHz	–77 @ 50MHz	12.3	20	20	4	5.5	112	3×3 QFN-16	$2.95
LT6411	Two Amplifiers, Configured as Differential, Gain of 1, 2, -1	DC	650	47 @ 30MHz	–82 @ 30MHz	–77 @ 30MHz	24.6	0	6	4.5	12	11×2	3×3 QFN-16	$2.39
LTC6404-1	Low Noise Differential Amplifier/ADC Driver	DC	600	50 @ 10MHz	–102 @ 10MHz	–91 @ 10MHz	13.4	0		2.7	5.25	35.5	3×3 QFN-16	$3.44
LTC6404-2	A_V≥6dB 700V/µs Slew Rate, 1.5nV/√Hz Noise Density	DC	600	53 @ 10MHz	–98 @ 10MHz	–99 @ 10MHz	10	6		2.7	5.25	39	3×3 QFN-16	$3.44
LT5524	Low Power, Digitally Prog. Gain, 1.5dB Steps	10	540	40 @ 50MHz	–76 @ 50MHz	–72 @ 50MHz	8.6	4.5	27	4.75	5.25	91	TSSOP-20	$4.40
LTC6404-4	A_V≥12dB, 1200V/µs Slew Rate, 1.5nV/√Hz Noise Density	DC	530	54@10MHz	–100@10MHz	–101@10MHz	8	12		2.7	5.25	39	3×3 QFN-16	$3.44
LT6402-20	Low Distortion, Fixed 20dB Gain	DC	300	46 @25MHz	–83 @ 25MHz	–79 @ 25MHz	12.5	20	20	4	5.5	37	3×3 QFN-16	$2.39
LTC6403-1	Low Noise/Distortion, Low Power Fully Differential Op Amp/Driver	DC	200	48 @ 3MHz	–106 @ 3MHz	–94@ 3MHz	10.8	0		2.7	5.25	11.8	3×3 QFN-16	$1.79
LTC6601-1	Low Distortion Pin-Configurable Differential Driver with 2nd Order LP Filter	DC	27	–	–72 @ 10MHz	–103 @ 10MHz	–	–17	17	2.7	5.25	43	4×4 QFN-20	$3.95

† Primary Sort Column

HIGH SPEED ADC DRIVERS

Part Number	Features	Min Frequency (MHz)	† –3dB Bandwidth/ f_{CUTOFF} (MHz)	OIP3 (dBm)	HD2 (dBc)	HD3 (dBc)	Noise Figure (dB)	Min Gain (dB)	Max Gain (dB)	Supply Voltage Min (V)	Supply Voltage Max (V)	Maximum Supply Current (mA)	Package	Price 1K Qty
LTC6601-2	**Low Power Pin-Configurable Differential Driver with 2nd Order LPF**	**DC**	**27**	**–**	**–65 @ 10MHz**	**–78 @ 10MHz**	**–**	**–17**	**17**	**2.7**	**5.25**	**23.5**	**4×4 QFN-20**	**$3.95**
LT6600-20	Integrated 20MHz LP Filter	DC	20	–	–83 @ 2.5MHz	–88 @ 2.5MHz	–	0		3	11	46	SO-8	$2.95
LT6600-15	Integrated 15MHz LP Filter	DC	15	–	–86 @ 1MHz	–90 @ 1MHz	–	0		3	11	39	SO-8	$2.95
LT6600-10	Integrated 10MHz LP Filter	DC	10	–	–88 @ 1MHz	–97 @ 1MHz	–	0		3	11	39	SO-8	$2.95
LT6600-5	Integrated 5MHz LP Filter	DC	5	–	–93 @ 1MHz	–96 @ 1MHz	–	0		3	11	31	SO-8	$2.95
LT6600-2.5	Integrated 2.5MHz LP Filter	DC	2.5	–	–95 @ 1MHz	–88 @ 1MHz	–	0		3	11	30	SO-8	$2.95
Duals														
LTC6420-20	Fixed 20dB Gain, 1.8GHz Matched Differential ADC Drivers, Low Distortion		1800	46 @ 100MHz	–80 @ 100MHz	–88 @ 100MHz	6.2	20	20	2.85	3.5	95	3×4 QFN-20	$5.17
LTC6421-20	Fixed 20dB Gain, 1.3GHz Matched Differential ADC Drivers, Low Power		1300	42 @ 100MHz	–74 @ 100MHz	–78 @ 100MHz	6.2	20	20	2.85	3.5	50	3×4 QFN-20	$4.77
LT6604-15	Dual Matched 15MHz 4th Order LP Filters + ADC Drivers	DC	15	–	–63 @ 10MHz	–69 @ 10MHz	–	0	12	3	11	78	4×7 QFN-34	$6.50
LTC6605-14	Dual Matched 14MHz 2nd Order LP Filters + ADC Drivers	DC	14	–	–81 @ 7MHz	–93 @ 7MHz	–	0	9.5	2.7	5.25	45	6×3 DFN-22	$6.95
LTC6604-10	Dual Matched 10MHz 4th Order LP Filters + ADC Drivers	DC	10	–	–88 @ 1MHz	–97 @ 1MHz	–	0	12	3	11	78	4×7 QFN-34	$6.50
LTC6605-10	Dual Matched 10MHz 2nd Order LP Filters + ADC Drivers	DC	10	–	–90 @ 5MHz	–106 @ 5MHz	–	0	14	2.7	5.25	45	6×3 DFN-22	$6.95
LTC6605-7	Dual Matched 7MHz 2nd Order LP Filters + ADC Drivers	DC	7	–	–96 @ 3MHz	–114 @ 3MHz	–	0	14	2.7	5.25	45	6×3 DFN-22	$6.95
LT6604-5	Dual Matched 5MHz 4th Order LP filters + ADC Drivers	DC	5	–	–93 @ 1MHz	–96 @ 1MHz	–	0	11	3	11	62	4×7 QFN-34	$6.50
LT6604-2.5	Dual Matched 2.5MHz 4th Order LP Filters + ADC Drivers	DC	2.5	–	–92 @ 1MHz	–88 @ 1MHz	–	0	12	3	11	30	4×7 QFN-34	$6.50
LTC6603	Dual Matched Prog 2.5MHz 9th Order Linear Phase LP Filter + ADC Driver	DC	2.5	–	<–75 @ 200MHz	<–75 @ 200MHz	29	0	24	2.7	5.5	175	4×7 QFN-24	$7.50
LTC6602	Dual Matched Prog 900kHz BP or 5th Order LP Filter + ADC Driver	DC	0.9	–	<–75 @ 100MHz	<–75 @ 100MHz	28	0	30	2.7	5.5	130	4×7 QFN-24	$6.95

† Primary Sort Column

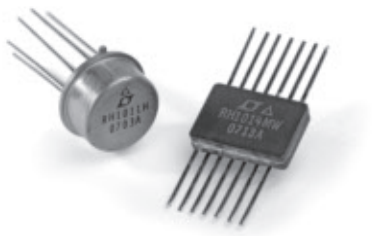
C.F. = Contact Factory

VCSEL LASER DIODE DRIVER

Part Number	Features	Min Data Rate (Mbps)	Max Data Rate (Mbps)	Min Vs (V)	Max Vs (V)	Is (mA)	Package	Price 1K Qty
LTC5100	Auto Power Control	155	3200	3.135	3.465	54	4×4 QFN-16	$5.15

MS-8, MS-10 = MSOP; SSOPN = Narrow SSOP; SSOPW = Wide SSOP; SOW = Wide SO

Space, Military and Harsh Environment



High Performance Radiation Hardened (RH) Solutions From Linear Technology

Linear Technology's RH product line provides industry-leading performance combined with space-level quality, reliability and ruggedness in environments where exposure to radiation can compromise system integrity. Each product is developed and characterized with guaranteed specifications for use in space systems and critical systems to maintain performance in the harshest conditions. Our standard is the highest quality products and superior performance and we back this up with knowledgeable support, long product life cycles and superior on-time delivery.

For two decades, Linear Technology's RH devices have been used in critical applications. During the development process, Linear Technology applies key circuit design techniques and manufacturing steps that enhance resistance to damage or malfunction caused by high-energy subatomic particles, electromagnetic radiation and high temperatures. These RH devices are total dose rated up to 200Krad and are deployed in most U.S., European and Japanese satellites.

Individual RH device data sheets, DICE data sheets and reliability information are available at www.linear.com

For additional information, contact Linear Technology's Space Group at ltcspace@linear.com

Part Number	Description	Total Dose Level Rad(Si)	Enhanced Low Dose Rate Sensitivity (ELDRS) Testing Status[1]	Temp Range	CERDIP Package	FLATPAK Package	Metal Can Package	RH Dice	Comments
Amplifiers									
RH07	Precision 0.4MHz Op Amp	200K		M	DIP-8	FP-10	TO-5	yes	Low Offset Voltage 200µV Max
RH101A	±15V 1MHz 75nA I_{BIAS} FET Input Op Amp	200K		M	DIP-8	FP-10	TO-5	yes	
RH108A	±15V 1MHz 3nA I_{BIAS} General Purpose Op Amp	80K	ELDRS Free to 50Krad	M	DIP-8	FP-10	TO-5	yes	
RH27AE	Precision 5MHz Op Amp, 35µV Offset	200K	ELDRS Free to 50Krad	M		FP-10			
RH27C	Precision 5MHz Op Amp, 100µV Offset	200K	ELDRS Free to 50Krad	M	DIP-8	FP-10	TO-5	yes	
RH27E	Precision 5MHz Op Amp, 55µV Offset	200K	ELDRS Free to 50Krad	M		FP-10	TO-5	yes	
RH1056	Precision 6.5MHz JFET Input Op Amp	200K		C				yes	
RH1056A	Precision 6.5MHz JFET Input Op Amp	200K		M		FP-10	TO-5		
RH118	15MHz 50V/µs Precision High Speed Op Amp	200K		M	DIP-8	FP-10	TO-5		
RH1128M	Ultralow Noise 20MHz Precision High Speed Op Amp, Av ≥ 1	200K	Contact Factory for Schedule	M		FP-10		yes	1.0nV/$\sqrt{Hz}$ 10kHz Noise
RH37C	Precision 45MHz Op Amp	200K		M	DIP-8	FP-10	TO-5	yes	
RH1028M	Ultralow Noise 75MHz Precision High Speed Op Amp, Av ≥ 2 or Av ≤ –1	200K	Contact Factory for Schedule	M		FP-10		yes	1.0nV/$\sqrt{Hz}$ 10kHz Noise
RH1078M	Dual Micropower 200kHz Precision Op Amp	100K	Test in Progress	M	DIP-8	FP-10	TO-5	yes	Optimized for Single Supply Operation, I_S = 95µA
RH1013M	Dual 0.5MHz Precision Op Amp	200K	Test in Progress	M	DIP-8	FP-10	TO-5	yes	Low Offset Voltage 300µV Max, Low Drift (2.5µV/°C)
RH1498M	Dual 10MHz 6V/µs Rail-to-Rail I/O Precision C-Load Op Amp	200K	Test in Progress	M		FP-10		yes	
RH1814	Dual 3mA 100MHz 750V/µs Op Amp	200K	Test in Progress	C				yes	Dice Version Is a Dual Op Amp
RH1014M	Quad 0.5MHz Precision Op Amp	200K	Test in Progress	M	DIP-14	FP-14			Low Offset Voltage 300µV Max, Low Drift (2.5µV/°C)
RH1499M	Quad 10MHz 6V/µs Rail-to-Rail I/O Precision C-Load Op Amp	200K	Test in Progress	M		FP-14			
RH1814M	Quad 3mA 100MHz 750V/µs Op Amp	200K	Test in Progress	M		FP-14			
Comparators									
RH1016M	Ultrafast Precision 10ns Comparator	200K	Contact Factory for Schedule	M		FP-10		yes	
RH111	200ns Voltage Comparator	200K		M	DIP-8	FP-10	TO-5	yes	See RH1011 for New Designs
RH1011	Precision 250ns Voltage Comparator	200K	ELDRS Free to 50Krad	M	DIP-8	FP-10	TO-5	yes	
RH119	Dual High Performance 200ns Comparator	200K	ELDRS Free to 50Krad	M	DIP-8	FP-10	TO-5	yes	

Part Number	Description	Total Dose Level Rad(Si)	Enhanced Low Dose Rate Sensitivity (ELDRS) Testing Status[1]	Temp Range	CERDIP Package	FLATPAK Package	Metal Can Package	RH Dice	Comments
LDO Regulators									
RH1086M	0.5A Positive Adjustable LDO, 1.5V Dropout @ Imax, (H die)	200K	Contact Factory for Schedule	M			TO-39	yes	
RH117	0.5A Positive Adjustable Regulator, (H die)	100K	ELDRS Free to 50Krad	M			TO-39	yes	
RH1086M	1.5A Positive Adjustable LDO, 1.5V Dropout @ Imax, (K die)	200K	Contact Factory for Schedule	M			TO-3	yes	Surface Mount Package Available from MS Kennedy & Aeroflex
RH117	1.5A Positive Adjustable Regulator, (K die)	100K	ELDRS Free to 50Krad	M			TO-3	yes	Surface Mount Package Available from MS Kennedy & Aeroflex
RH1085M	3A Positive Adjustable LDO	200K	Contact Factory for Schedule	M			TO-3	yes	Surface Mount Package Available from MS Kennedy & Aeroflex
RH1084M	5A Low Dropout Positive Adjustable Regulator	200K		M			TO-3	yes	Surface Mount Package Available from MS Kennedy & Aeroflex
RH1573K	LDO Regulator Driver, Supports Up To 5A with External PNP	200K	Test in Progress	C				yes	Packaged Solution Available from MS Kennedy
RH137	0.5A Negative Adjustable Regulator, (H die)	200K	ELDRS Free to 50Krad	M			TO-3	yes	
RH137	1.5A Negative Adjustable Regulator, (K die)	200K	ELDRS Free to 50Krad	M			TO-39	yes	Surface Mount Package Available from MS Kennedy & Aeroflex
RH1185M	3A Negative LDO with Adjustable Current Limit	200K	Test in Progress	M			TO-3	yes	Surface Mount Package Available from MS Kennedy & Aeroflex
References									
RH1034M-1.2	Micropower Dual Reference, 1.2V and 7V	200K	Contact Factory for Schedule	M		FP-10	TO-46	yes	
RH1009M	Precision 2.5V Reference, 0.2% Initial Accuracy, 33ppm/°C Drift	200K	ELDRS Free to 50Krad	M		FP-10	TO-46	yes	
RH1021BM-5	Precision 5V Reference, 1% Initial Accuracy, 5ppm/°C Drift	200K	ELDRS Free to 50Krad	M			TO-5		
RH1021C-5	Precision 5V Reference, 0.05% Initial Accuracy, No Drift Spec	200K	ELDRS Free to 50Krad	C				yes	C-Grade in Dice Form Only
RH1021CM-5	Precision 5V Reference, 0.05% Initial Accuracy, 20ppm/°C Drift	200K	ELDRS Free to 50Krad	M		FP-10	TO-5		
RH129A	Precision 6.9V Reference, 4.3% Initial Accuracy, 10ppm/°C Drift	200K		M			TO-46	yes	
RH1021BM-7	Precision 7V Reference, 1% Initial Accuracy, 5ppm/°C Drift	200K		M			TO-5		
RH1021C-7	Precision 7V Reference, 0.05% Initial Accuracy, No Drift Spec	200K		C				yes	C-Grade in Dice Form Only
RH1021DM-7	Precision 7V Reference, 1% Initial Accuracy, 20ppm/°C Drift	200K		M			TO-5	yes	
RH1021BM-10	Precision 10V Reference, 1% Initial Accuracy, 5ppm/°C Drift	200K		M			TO-5		
RH1021C-10	Precision 10V Reference, 0.05% Initial Accuracy, No Drift Spec	200K		C				yes	C-Grade in Dice Form Only
RH1021CM-10	Precision 10V Reference, 0.05% Initial Accuracy, 20ppm/°C Drift	200K		M		FP-10	TO-5		

Note:
1. ELDRS testing performed per MIL-STD-883 method 1019.7

MS KENNEDY RADIATION HARDENED ICs

MS Kennedy Radiation Hardened LDOs Built Using Linear Technology RH DIE

Part Number	† Positive LDO Output Current (A)	Positive LDO Output Voltage (V)	Positive LDO Dropout Voltage ($V@I_{OUT}$)	† Negative LDO Output Current (A)	Negative LDO Output Voltage (V)	Negative LDO Dropout Voltage ($V@I_{OUT}$)	Temp Range	SMD Number	LTC RH Die Part Type	Package	Comments
Positive Voltage Regulators											
MSK5970RH	1.5	Adjustable	1.1 @ 1.5A	n/a	n/a	n/a	M	5962F0921101	RH1086BKK	TO-257	On-Chip Trimming Adjusts Output Voltage to 1%
MSK5972RH	1.5	Adj (1.2 to 37)	2.2 @ 1.5A	n/a	n/a	n/a	M	5962F0921301	RH117K	TO-257	Current Limit and Thermal Overload Protection
MSK5823-1.8	3	1.8	1.0 @ 3A	n/a	n/a	n/a	M	5962F0824601	RH1573	Metal Flatpack-8	Optimized for 3.3V Input
MSK5823-2.5	3	2.5	0.3 @ 3A	n/a	n/a	n/a	M	5962F0824602	RH1573	Metal Flatpack-8	Optimized for 3.3V Input
MSK5824	3	Adj (1.3 to 6.1)	0.3 @ 3A	n/a	n/a	n/a	M	5962F0920801	RH1573	Metal Flatpack-8	1.265V to (V_{IN} – 0.4V) Output Voltage Range
MSK5825-2.5	3	2.5	0.3 @ 3A	n/a	n/a	n/a	M	5962F0920901	RH1573	Metal Flatpack-8	Optimized for 5V Input
MSK5825-3.3	3	3.3	0.3 @ 3A	n/a	n/a	n/a	M	5962F0920902	RH1573	Metal Flatpack-8	Optimized for 5V Input
MSK5826	3	Adj (1.3 to 6.1)	0.3 @ 3A	n/a	n/a	n/a	M	5962F0921001	RH1573	Metal Flatpack-8	Optimized for 5V Input
MSK5971RH	3	Adjustable	1.1 @ 3A	n/a	n/a	n/a	M	5962F0921201	RH1085MK	TO-257	On-Chip Trimming Adjusts Output Voltage to 1%

† Primary Sort Column

MS KENNEDY RADIATION HARDENED ICs

MS Kennedy Radiation Hardened LDOs Built Using Linear Technology RH DIE

Part Number	† Positive LDO Output Current (A)	Positive LDO Output Voltage (V)	Positive LDO Dropout Voltage ($V@I_{OUT}$)	† Negative LDO Output Current (A)	Negative LDO Output Voltage (V)	Negative LDO Dropout Voltage ($V@I_{OUT}$)	Temp Range	SMD Number	LTC RH Die Part Type	Package	Comments
MSK5800	4	Adj (1.5 to 6.8)	0.3 @ 1.5A	n/a	n/a	n/a	M	5962F0921601	RH1573	Metal Flatpack-12	External Shutdown/Reset, Latching Overload Protection
MSK5810	5	Adj (1.5 to 7.0)	0.11 @ 1A	n/a	n/a	n/a	M	5962F0921602	RH1573	Metal Flatpack-20	External Shutdown/Reset, Latching Overload Protection
MSK5820-1.5	5	1.5	1.3 @ 3A	n/a	n/a	n/a	M	5962F0921604	RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5820-1.8	5	1.8	1.0 @ 3A	n/a	n/a	n/a	M		RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5820-1.9	5	1.9	0.9 @ 3A	n/a	n/a	n/a	M	5962F0921605	RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5820-2.5	5	2.5	0.3 @ 3A	n/a	n/a	n/a	M	5962F0921606	RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5820-2.8	5	2.8	0.3 @ 3A	n/a	n/a	n/a	M	5962F0921607	RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5820-3.3	5	3.3	0.3 @ 3A	n/a	n/a	n/a	M	5962F0921608	RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5820-5.0	5	5.0	0.3 @ 3A	n/a	n/a	n/a	M	5962F0921609	RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5821	5	Adj (1.5 to 6.0)	0.3 @ 3A	n/a	n/a	n/a	M	5962F0921603	RH1573	Metal SIP-5	External Shutdown/Reset, Latching Overload Protection
MSK5822-1.5	5	1.5	0.22 @ 2A	n/a	n/a	n/a	M	Contact Factory	RH1573	Metal SIP-5	Separate Bias/V_{IN} Pins for Improved Efficiency
MSK5822-1.9	5	1.9	0.22 @ 2A	n/a	n/a	n/a	M	Contact Factory	RH1573	Metal SIP-5	Separate Bias/V_{IN} Pins for Improved Efficiency
MSK5822-2.5	5	2.5	0.22 @ 2A	n/a	n/a	n/a	M	Contact Factory	RH1573	Metal SIP-5	Separate Bias/V_{IN} Pins for Improved Efficiency
MSK5822-2.8	5	2.8	0.22 @ 2A	n/a	n/a	n/a	M	Contact Factory	RH1573	Metal SIP-5	Separate Bias/V_{IN} Pins for Improved Efficiency
MSK5822-3.3	5	3.3	0.22 @ 2A	n/a	n/a	n/a	M	Contact Factory	RH1573	Metal SIP-5	Separate Bias/V_{IN} Pins for Improved Efficiency
MSK5822-5.0	5	5.0	0.22 @ 2A	n/a	n/a	n/a	M	Contact Factory	RH1573	Metal SIP-5	Separate Bias/V_{IN} Pins for Improved Efficiency
MSK5950RH	5	Adj (0 to 2.0)	0.11 @ 1A	n/a	n/a	n/a	M	5962F0921501	RH1009+RH1573	Metal Flatpack-20	Output Voltage Adjustable Down to Near Zero
MSK5951RH	10	Adj (1.5 to 7.0)	0.11 @ 2A	n/a	n/a	n/a	M	Contact Factory	RH1573	Metal Powerpack-12	External Shutdown/Reset, Latching Overload Protection
Negative Voltage Regulators											
MSK5973RH	n/a	n/a	n/a	1.5	Adj (–1.2 to –22)	2.2 @ 1.5A	M	5962F0921401	RH137BKK	TO-257	Current Limit and Thermal Overload Protection
MSK5940-10RH	n/a	n/a	n/a	3	–10	0.6 @ 2A	M	Contact Factory	RH1185MK	Metal SIP-3	Tab or No Tab Package Option
MSK5940-12RH	n/a	n/a	n/a	3	–12	0.6 @ 2A	M	Contact Factory	RH1185MK	Metal SIP-3	Tab or No Tab Package Option
MSK5940-15RH	n/a	n/a	n/a	3	–15	0.6 @ 2A	M	Contact Factory	RH1185MK	Metal SIP-3	Tab or No Tab Package Option
MSK5940-5.0RH	n/a	n/a	n/a	3	–5	0.6 @ 2A	M	Contact Factory	RH1185MK	Metal SIP-3	Tab or No Tab Package Option
MSK5940-5.2RH	n/a	n/a	n/a	3	–5.2	0.6 @ 2A	M	Contact Factory	RH1185MK	Metal SIP-3	Tab or No Tab Package Option
Combined Positive and Negative Regulators											
MSK5930RH	3	3.3	1.1 @ 2A	3	–5.2	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5931RH	3	5	1.1 @ 2A	3	–5	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5932RH	3	5	1.1 @ 2A	3	–5.2	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5933RH	3	12	1.1 @ 2A	3	–5	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5934RH	3	12	1.1 @ 2A	3	–12	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5935RH	3	15	1.1 @ 2A	3	–15	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5936RH	3	15	1.1 @ 2A	3	–5	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5937RH	3	5	1.1 @ 2A	3	–12	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5938RH	3	5	1.1 @ 2A	3	–15	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	
MSK5939RH	3	10	1.1 @ 2A	3	–10	0.6 @ 2A	M	Contact Factory	RH1085MK+RH1185MK	Metal SIP-5	

† Primary Sort Column

MS Kennedy Radiation Hardened Operational Amplifiers Built Using Linear Technology RH DIE

Part Number	V_{OS} Max 25°C (mV)	I_{BIAS} Max 25°C (nA)	Slew Rate (V/µs)	CMRR (dB)	IOUT (mA)	Supply Voltage Range (V)	Temp Range	SMD Number	LTC RH Die Part Type	Package	Comments
MSK0041RH	±3	±300	1.2	70	300	±5 to ±18	M	Contact Factory	RH101A	TO-8/12 Pin	Class C Power Op Amp with Internal Current Limit
MSK106RH	±3	±500	1.2	70	1600	±5 to ±22	M	Contact Factory	RH101A	Metal Flatpack-20	Class C Power Op Amp with Internal Current Limit

For more information, please visit the MS Kenedy website: www.mskennedy.com and follow the link to RAD HARD PRODUCTS

AEROFLEX RADIATION HARDENED LINEAR REGULATORS (LDOs) BUILT USING LINEAR TECHNOLOGY RH DIE

Part Number	† Positive LDO Output Current (A)	Positive LDO Output Voltage (V)	Positive LDO Dropout Voltage ($V@I_{OUT}$)	† Negative LDO Output Current (A)	Negative LDO Output Voltage (V)	Negative LDO Dropout Voltage ($V@I_{OUT}$)	Temp Range	SMD Number	LTC RH Die Part Type	Package	Comments
Positive Voltage Regulators											
VRG8662	1.0	Adj (1.3 to 23)	1.3 @ 1A	n/a	n/a	n/a	M	5962-0920701KXX	RH1086MK	SMD-0.5	3 Terminal Ceramic SMD
VRG8660	1.5	Adj (1.2 to 37)	2.2 @ 1.5A	n/a	n/a	n/a	M	5962-0920601KXX	RH117K	SMD-0.5	3 Terminal Ceramic SMD
Dual Positive Voltage Regulators											
VRG8657	1.0 × 2	Adj (1.3 to 23)	1.3 @ 1A	n/a	n/a	n/a	M	5962-0920102KXX	Dual RH1086MK	TO-257	1A for Each Regulator, 6 Lead Through Hole Mounting
VRG8658	1.0 × 2	Adj (1.3 to 23)	1.3 @ 1A	n/a	n/a	n/a	M	5962-0920102KYX	Dual RH1086MK	TO-257	1A for Each Regulator, 6 Lead Surface Mount
VRG8607	1.5 × 2	Adj (1.2 to 37)	2.2 @ 1.5A	n/a	n/a	n/a	M	5962-0521903KXX	Dual RH117K	TO-257	1.5A for Each Regulator, 6 Lead Through Hole Mounting
VRG8608	1.5 × 2	Adj (1.2 to 37)	2.2 @ 1.5A	n/a	n/a	n/a	M	5962-0521903KYX	Dual RH117K	TO-257	1.5A for Each Regulator, 6 Lead Surface Mount
Negative Voltage Regulators											
VRG8661	n/a	n/a	n/a	1.5	Adj (–1.2 to –27)	2.2 @ 1.5A	M	5962-0920602KXX	RH137K	SMD-0.5	3 Terminal Ceramic SMD
VRG8663	n/a	n/a	n/a	3.0	Adj (–2.5 to –25)	1.3 @ 3A	M	5962-0920702KYX	RH1185MK	SMD	5 Terminal Ceramic SMD
Dual Negative Voltage Regulators											
VRG8609	n/a	n/a	n/a	1.5 × 2	Adj (–1.2 to –27)	2.2 @ 1.5A	M	5962-0521904KXX	Dual RH137K	TO-257	1.5A for Each Regulator, 6 Lead Through Hole Mounting
VRG8610	n/a	n/a	n/a	1.5 × 2	Adj (–1.2 to –27)	2.2 @ 1.5A	M	5962-0521904KYX	Dual RH137K	TO-257	1.5A for Each Regulator, 6 Lead Surface Mount
Combined Positive and Negative Regulators											
VRG8651	1.0	Adj (1.3 to 23)	1.3 @ 1A	3.0	Adj (–2.5 to –25)	1.3 @ 3A	M	5962-0920101KXX	RH1086MK+RH1185MK	TO-257	8 Lead Through Hole Mounting
VRG8652	1.0	Adj (1.3 to 23)	1.3 @ 1A	3.0	Adj (–2.5 to –25)	1.3 @ 3A	M	5962-0920101KYX	RH1086MK+RH1185MK	TO-257	8 Lead Surface Mount
VRG8601	1.5	Adj (1.2 to 37)	2.2 @ 1.5A	1.5	Adj (–2.5 to –25)	2.2 @ 1.5A	M	5962-0521901KXX	RH117K+RH137K	TO-257	6 Lead Through Hole Mounting
VRG8602	1.5	Adj (1.2 to 37)	2.2 @ 1.5A	1.5	Adj (–2.5 to –25)	2.2 @ 1.5A	M	5962-0521901KYX	RH117K+RH137K	TO-257	6 Lead Surface Mount

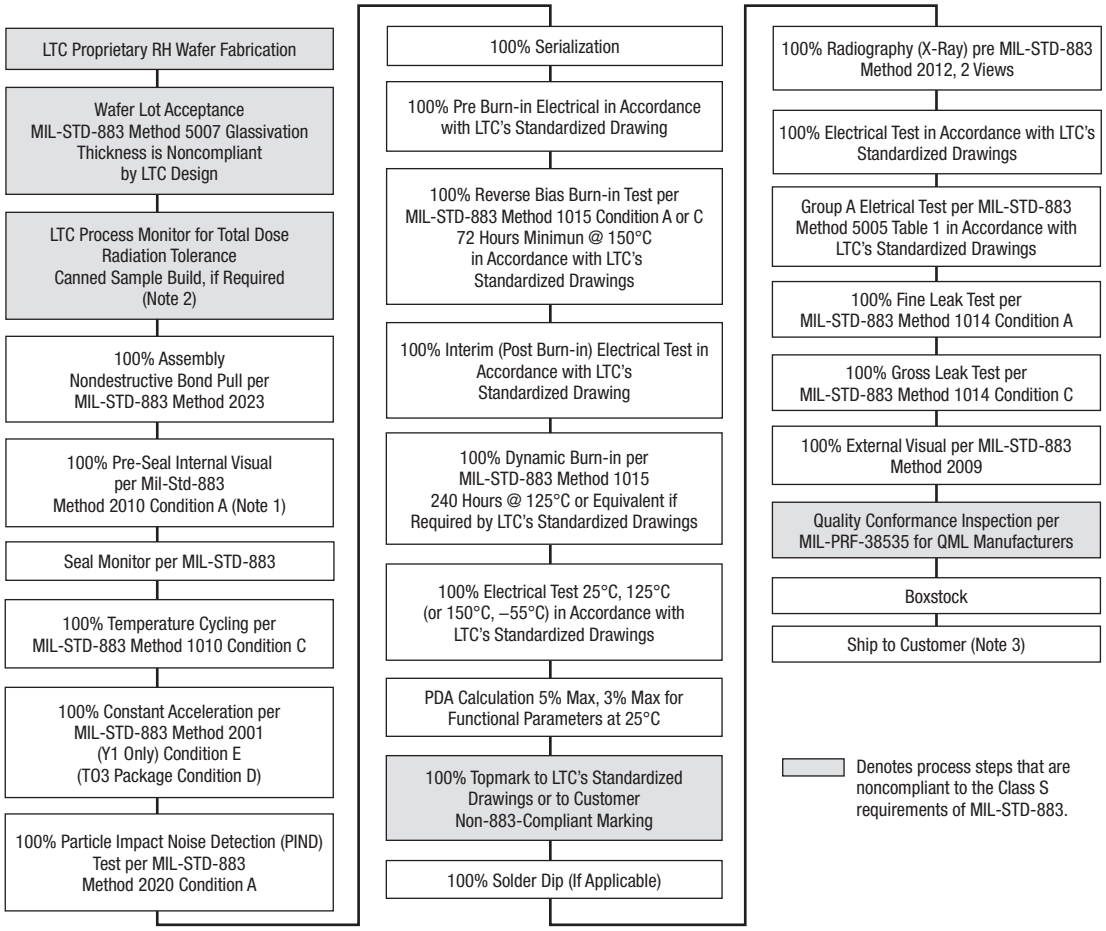
† Primary Sort Column

For more information, please visit the Aeroflex website at: http://www.ams.aeroflex.com/ProductPages/RH_regs.cfm

Standardized RH Packaged Product Process

Linear Technology has implemented proprietary processes that enhance the performance of its devices when exposed to radiation. Linear Technology does not use Si3N4 [silicon nitride] top-side passivation on its radiation hardened offerings. Instead Linear Technology uses a low temperature deposit of silicon dioxide as a top-side barrier. The following flowchart highlights the steps where changes were made compared to the standard JAN-S manufacturing flow.

Standardized RH Packaged Product Flowchart



NOTES:
1. Source Inspection at Pre-Seal Internal Visual and Wafer Lot Acceptance is standard.
2. For guaranteed radiation levels, outside lab charges will apply for samples to MIL-STD-883, Test Method 1019, Total Dose Irradiation.
3. Customer Source Inspection can be added at Final Shipment per P.O.

RH DICE Sales

RH devices are available in DICE form.

This table highlights the RH Element Evaluation for qualifying DICE sales.

RH CANNED SAMPLE TABLE FOR QUALIFYING DICE SALES

Sub-Group	Class K/S	Class H/B	Operation	MIL-STD-883 Method	MIL-STD-883 Condition	Quantity (Accept Number)
1	X		SEM	2018	N/A	Reference Method 2018 for Sample Size
2	X	X	Element Electrical (Wafer Sort @ 25°C)			100%
3	X	X	Element Visual (2nd OP)	2010	A	100%
4	x	X	Internal Visual (3rd OP)	2010	A	Assembled Parts Only
	X		Die Shear Monitor	2019		
	X		Bond Pull Monitor	2011		
5	X		Stabilization Bake	1008	C	Assembled Parts Only
	X		Temperature Cycle	1010	C	
	X		Constant Acceleration	2001	E	
	X		Fine Leak	1014	A	
	X		Gross Leak	1014	C	
6	X		First Room Electrical – Read & Record (Replace Any Assembly-Related Rejects)			43 (3)
	X		Electrical Read & Record @ 125°C or 150°C, –55°C			
	X		Burn-In: 125°C/240 hrs. or 150°C/120 hrs.	1015	125°C Min. 240 hours	
	X		Post Burn-In Electrical @ 25°C Read & Record			
	X		Pre OP-Life Electrical @ 25°C Read & Record			
	X		Operating Life: 125°C/ 1000 hrs. or 150°C/500 hrs.	1005	125°C Min. 1000 hours	
	X		Post OP-Life Electrical (Read & Record 25°C, 125°C or 150°C, –55°C)			
7	X	X	Wire Bond Evaluation	2011		15 (0) or 25 (1) (No. of wires)

NOTES:

1. LTC is not qualified to process to MIL-PRF-38534. This is an LTC imposed element evaluation that follows MIL-STD-883 test methods and conditions. Please note the quantity and accept number from a Sample Size Series of 15%, accept on 3, and note that the actual sample and accept number does not begin until Subgroup 6.
2. Tests within Subgroup 5 may be performed in any sequence.
3. LTC's radiation-tolerant (RH) die has a topside glassivation thickness of 4KÅ minimum.
4. Sample sizes on the travelers may be larger than that indicated in the above table; however, the larger sample size is to accommodate extra units for replacement devices in the event of equipment or operator error and for assembly-related rejects in Subgroup 6, and for Wire Bond Evaluation, Subgroup 7. The larger sample size is at all times kept segregated and, if used for qualification, has all the required processing imposed.

† DSCC Part Number	LTC Part Number	Description	Temp Range	Gold Terminal Finish	SnPb Terminal Finish	Matte Tin Terminal Finish	Package	Comments
Amplifiers								
JM38510/10103SGA	LM101AH	1MHz ±15V 2mV V_{OS} Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
JM38510/10103SHA	LM101AW	1MHz ±15V 2mV V_{OS} Op Amp	M	n/a	yes	n/a	FLATPAK-10	
JM38510/10103SPA	LM101AJ8	1MHz ±15V 2mV V_{OS} Op Amp	M	n/a	yes	n/a	CERDIP-8	
JM38510/10104SCA	LM108AJ	1MHz ±15V 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	CERDIP-14	
JM38510/10104SGA	LM108AH	1MHz ±15V 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
JM38510/10104SHA	LM108AW	1MHz ±15V 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	FLATPAK-10	
JM38510/10104SPA	LM108AJ8	1MHz ±15V 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	CERDIP-8	
JM38510/10107SGA	LM118H	15MHz ±15V Precision Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
JM38510/10107SPA	LM118J8	15MHz ±15V Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	
JM38510/11401SGA	LF155H	2.5MHz 100pA I_{BIAS} JFET Input Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	±30µV/°C Input Offset Voltage Drift
JM38510/11401SPA	LF155J8	2.5MHz 100pA I_{BIAS} JFET Input Op Amp	M	n/a	yes	n/a	CERDIP-8	±30µV/°C Input Offset Voltage Drift
JM38510/11402SGA	LF156J8	5MHz 100pA I_{BIAS} JFET Input Op Amp	M	n/a	yes	n/a	CERDIP-8	±30µV/°C Input Offset Voltage Drift
JM38510/11402SPA	LF156H	5MHz 100pA I_{BIAS} JFET Input Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	±30µV/°C Input Offset Voltage Drift
JM38510/11404SPA	LF155AJ8	2.5MHz 50pA I_{BIAS} JFET Input Op Amp	M	n/a	yes	n/a	CERDIP-8	±10µV/°C Input Offset Voltage Drift
JM38510/11405SGA	LF156AH	5MHz 50pA I_{BIAS} JFET Input Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	±10µV/°C Input Offset Voltage Drift
JM38510/11405SPA	LF156AJ8	5MHz 50pA I_{BIAS} JFET Input Op Amp	M	n/a	yes	n/a	CERDIP-8	±10µV/°C Input Offset Voltage Drift
JM38510/12501SGA	LF198H	Sample and Hold Amplifier	M	n/a	yes	n/a	TO-5, 8 Lead	
JM38510/13501SGA	OP07AH	0.4MHz 75µV Offset Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	±25µV Input Offset Voltage @ 25°C
JM38510/13501SPA	OP07AJ	0.4MHz 75µV Offset Op Amp	M	n/a	yes	n/a	CERDIP-8	±25µV Input Offset Voltage @ 25°C
JM38510/13502SGA	OP07H	0.4MHz 75µV Offset Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	±75µV Input Offset Voltage @ 25°C
JM38510/13502SPA	OP07J	0.4MHz 75µV Offset Op Amp	M	n/a	yes	n/a	CERDIP-8	±75µV Input Offset Voltage @ 25°C
Comparators								
JM38510/10304SGA	LM111H8	200ns Voltage Comparator	M	n/a	yes	n/a	TO-5, 8 Lead	Not Recommended for New Designs
JM38510/10306SCA	LM119J	300ns Dual Precision High Speed Comparator	M	n/a	yes	n/a	CERDIP-14	±75nA Input Offset Current
JM38510/10306SHA	LM119W	300ns Dual Precision High Speed Comparator	M	n/a	yes	n/a	FLATPAK-10	±75nA Input Offset Current
JM38510/10306SIA	LM119H	300ns Dual Precision High Speed Comparator	M	n/a	yes	n/a	TO-5, 10 Lead	±75nA Input Offset Current
JM38510/10307SCA	LT119AJ	125ns Dual High Precision High Speed Comparator	M	n/a	yes	n/a	CERDIP-14	±40nA Input Offset Current
JM38510/10307SHA	LT119AW	125ns Dual High Precision High Speed Comparator	M	n/a	yes	n/a	FLATPAK-10	±40nA Input Offset Current
JM38510/10307SIA	LT119AH	125ns Dual High Precision High Speed Comparator	M	n/a	yes	n/a	TO-5, 10 Lead	±40nA Input Offset Current
LDO Regulators								
JM38510/11703SXA	LM117H	0.5A Positive Adjustable Regulator	M	n/a	yes	n/a	TO-39	
JM38510/11704SYA	LM117K	1.5A Positive Adjustable Regulator	M	n/a	yes	n/a	TO-3	
JM38510/11706SYA	LM138K	5A Positive Voltage Regulator	M	n/a	yes	n/a	TO-3	
JM38510/11803SXA	LM137H	0.5A Negative Adjustable Regulator	M	n/a	yes	n/a	TO-39	
References								
JM38510/12407SGA	LT1021BMH-5	5V Ultralow Drift Precision Reference	M	n/a	yes	n/a	TO-5, 8 Lead	5ppm/°C Voltage Drift
JM38510/12408SGA	LT1021BMH-7	7V Ultralow Drift Precision Reference	M	n/a	yes	n/a	TO-5, 8 Lead	5ppm/°C Voltage Drift
JM38510/12409SGA	LT1021BMH-10	10V Ultralow Drift Precision Reference	M	n/a	yes	n/a	TO-5, 8 Lead	5ppm/°C Voltage Drift
JM38510/14802SXA	LT1009MH	Precision 2.5V Reference	M	n/a	yes	n/a	TO-46	

† Primary Sort Column

Part Number	Description	Temp Range	Gold Terminal Finish	SnPb Terminal Finish	Matte Tin Terminal Finish	Package	Comments
Amplifiers							
LT1637MPS8	1.1MHz, 0.4V/us Over-The-Top uPower, RRIO Op Amp	M	n/a	yes	yes	SO-8	
LT1994MPDD	70MHz Low Noise, Low Distortion Differential In/Out Amplifier/Driver	M	n/a	yes	yes	3×3 DFN-8	
LT1112MPS8	Dual 0.75MHz Low Power Precision, Picoamp Input Op Amp	M	n/a	yes	yes	SO-8	
LT1498MPS8	Dual 10MHz, 6V/us, RRIO Precision C-Load Op Amp	M	n/a	yes	yes	SO-8	
LT1124AMPS8	Dual 12.5MHz Low Noise, High Speed Precision Op Amp	M	n/a	yes	yes	SO-8	
LT1125MPSW	Quad 12.5MHz Low Noise, High Speed Precision Op Amp	M	n/a	yes	yes	SOW-16	
LT1114MPS	Quad 0.75MHz Low Power Precision, Picoamp Input Op Amp	M	n/a	yes	yes	SO-16	
LT6107MPS5	High Side Current Sense Amplifier	M	n/a	yes	yes	TSOT-23	
DC/DC µModule Regulators							
LTM8020MPV#PBF	V_{IN} DC/DC µModule	M	yes	n/a	n/a	LGA 6.25×6.25×2.3	
LTM8022MPV#PBF	1A, 36V V_{IN}, DC/DC µModule	M	yes	n/a	n/a	LGA 9×11.25×2.8	
LTM8023MPV#PBF	2A, 36V V_{IN}, DC/DC µModule	M	yes	n/a	n/a	LGA 9×11.25×2.8	
LTM4606MP#PBF	6A Ultralow Noise 18V V_{IN} 5V_{OUT}, DC/DC µModule	M	yes	n/a	n/a	LGA 15×15×2.8	
LTM4612MP#PBF	6A Ultralow Noise 36V V_{IN}, 12V_{OUT}, DC/DC µModule	M	yes	n/a	n/a	LGA 15×15×2.8	
LTM4608AMPV#PBF	8A, 2.4V to 5.5V V_{IN} DC/DC µModule with Tracking, Margining, Multiphase	M	yes	n/a	n/a	LGA 9×15×2.8	
LTM4600HVMP#PBF	10A, 28V V_{IN}, DC/DC µModule	M	yes	n/a	n/a	LGA 15×15×2.8	
LTM4601AHVMPV#PBF	12A, 28V V_{IN}, DC/DC µModule, with PLL, Tracking & Margining	M	yes	n/a	n/a	LGA 15×15×2.8	
DC/DC Regulators and Controllers							
LTC3404MPMS8	1A, 1.4MHz High Efficiency Monolithic Sync. Step-Down Regulator	M	n/a	yes	yes	SO-8	
LTC3412AMPFE	2.5A, 4MHz, Monolithic Synchronous Step-Down Regulator	M	n/a	yes	yes	TSSOP-16	
LTC3414MPFE	4A, 4MHz, Monolithic Synchronous Step-Down Regulator	M	n/a	yes	yes	TSSOP-20	
LT3724MPFE	High Voltage, Current Mode Switching Regulator Controller	M	n/a	yes	yes	TSSOP-16	
LTC3824MPMSE	High Voltage Step-Down Controller with 40µA Quiescent Current	M	n/a	yes	yes	MSOP-10	
LTC3780MPG	High Efficiency, Synchronous, 4-Switch Buck-Boost Controller	M	n/a	yes	yes	SSOP-24	
LTC3780MPUH	High Efficiency, Synchronous, 4-Switch Buck-Boost Controller	M	n/a	yes	yes	5×5 QFN-32	
LDO Regulators							
LT1761MPS5-1.8	100mA, Low Noise, LDO Micropower Regulator	M	n/a	yes	yes	SOT-23	
LT3013MPFE	250mA, 4V to 80V Low Dropout Micropower Linear Regulator with PWRGD	M	n/a	yes	yes	TSSOP-16	
LT1763MPS8	500mA, Low Noise, LDO Micropower Regulator	M	n/a	yes	yes	SO-8	
LT3085MPDCB	500mA Adjustable Low Dropout Regulator (6-Lead DFN)	M	n/a	yes	yes	2×3 DFN-6	
LT3085MPMS8E	500mA Adjustable Low Dropout Regulator (8-Lead MSOP)	M	n/a	yes	yes	MSOP-8	
LT1129MPST-3.3	700mA Low Dropout Regulator with Shutdown	M	n/a	yes	yes	SOT-223	
LT1963AMPQ	1.5A, Low Noise, Fast Transient Response LDO Regulator	M	n/a	yes	yes	DD-5	
LT1963AMPS8	1.5A, Low Noise, Fast Transient Response LDO Regulator	M	n/a	yes	yes	SO-8	
LT1764AMPQ	3A, Fast Transient Response, Low Noise, LDO Regulator	M	n/a	yes	yes	TO-220	
Oscillators							
LTC6904MPMS8	1kHz to 68MHz Serial Port Programmable Oscillator	M	n/a	yes	yes	SO-8	
LTC6905MPS5	17MHz to 170MHz Resistor Set SOT-23 Oscillator	M	n/a	yes	yes	SOT-23	
Power Management							
LT4356MPS-1	Overvoltage Protection Regulator and Inrush Limiter	M	n/a	yes	yes	SO-16	
LT4356MPS-2	Overvoltage Protection Regulator and Inrush Limiter with Auxiliary Amplifier	M	n/a	yes	yes	SO-16	
LT4356MPMS-1	Overvoltage Protection Regulator and Inrush Limiter	M	n/a	yes	yes	MSOP-10	
LTC4444MPMS8E-5	High Voltage Synchronous N-Channel MOSFET Driver	M	n/a	yes	yes	MSOP-8	
References							
LT6700MPDCB-1	6.5µA, 18µs Low Voltage, Dual Comparator with 400mV Ref., 1 Inv Input, 1 Non-Inv Input	M	n/a	yes	yes	2×3 DFN-6	
LT6700MPDCB-2	Micropower, Low Voltage, Dual Comparator with 400mV Ref., 2 Inv Inputs	M	n/a	yes	yes	2×3 DFN-6	
LT6700MPDCB-3	Micropower, Low Voltage, Dual Comparator with 400mV Ref., 2 Non-Inv Inputs	M	n/a	yes	yes	2×3 DFN-6	

Part Number	DSCC SMD#	Description	Temp Range	Gold Terminal Finish	SnPb Terminal Finish	Matte Tin Terminal Finish	Package	Comments[2]
Amplifiers[1]								
LTC1100AMJ8		0.02MHz Precision, Zero-Drift Instrumentation Amplifier	M	n/a	yes	n/a	CERDIP-8	
LT1101AMJ8		0.25MHz Precision Micropower Single Supply Instrumentation Amplifier	M	n/a	yes	n/a	CERDIP-8	
LM107H		0.25MHz ±15V FET Input Op Amp, Internal Compensation Capacitor	M	n/a	yes	n/a	TO-5, 8 Lead	
LM307H		0.25MHz ±15V FET Input Op Amp	C	n/a	yes	n/a	TO-5, 8 Lead	
OP07H		Precision 0.4MHz Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
LM108AH		1MHz ±15V 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
LM108AJ8		1MHz ±15V 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	CERDIP-8	
LF155H		2.5MHz 100pA I_{BIAS} J-FET Input Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
LF355AH		2.5MHz 50pA I_{BIAS} J-FET Input Op Amp	C	n/a	yes	n/a	TO-5, 8 Lead	
LTC1150MJ8		2.5MHz Zero-Drift Op Amp with Internal Capacitors	M	n/a	yes	n/a	CERDIP-8	
LT1010MJ8		20MHz ±150mA Power Buffer	M	n/a	yes	n/a	TO-39, 4 Lead	
LT1010MJ8/883		20MHz ±150mA Power Buffer	M	n/a	yes	n/a	TO-39, 4 Lead	
LT1227MJ8		140MHz Video Current Feedback Amplifier	M	n/a	yes	n/a	CERDIP-8	
LT1227MJ8/883		140MHz Video Current Feedback Amplifier	M	n/a	yes	n/a	CERDIP-8	
LT1078AMJ8/883	5962-9163204MPA	Dual 0.2MHz Micro-Power, Single Supply, Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	DSCC or LT Versions Available
LT1078MJ8		Dual 0.2MHz Micro-Power, Single Supply, Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	
LT1013AMH		Dual 0.5MHz Precision Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
LT1013AMJ8/883	5962-8876001PX	Dual 0.5MHz Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	DSCC or LT Versions Available
LT1013MH		Dual 0.5MHz Precision Op Amp	M	n/a	yes	n/a	TO-5, 8 Lead	
LT1013MJ8		Dual 0.5MHz Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	
LT1013MJ8/883		Dual 0.5MHz Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	
LT1112MJ8		Dual 0.75MHz Low Power Precision, Picoamp Input Op Amp	M	n/a	yes	n/a	CERDIP-8	
LT1211MJ8		Dual 14MHz, 7V/µs, Single Supply Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	
LT1213AMJ8		Dual 28MHz, 12V/µs, Single Supply Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	
LT1079MJ		Quad 0.2MHz Micro-Power, Single Supply, Precision Op Amp	M	n/a	yes	n/a	CERDIP-14	
LT1014AMJ/883		Quad 0.5MHz Precision Op Amp	M	n/a	yes	n/a	CERDIP-14	
LT1014MJ		Quad 0.5MHz Precision Op Amp	M	n/a	yes	n/a	CERDIP-14	
LT1114MJ		Quad 0.75MHz Low Power Precision, Picoamp Input Op Amp	M	n/a	yes	n/a	CERDIP-14	
LT1125AMJ		Quad 12.5MHz Low Noise, High Speed Precision Op Amp	M	n/a	yes	n/a	CERDIP-14	
Comparators								
LT1016MJ8/883	5962-8684501PX	Ultrafast Precision 10ns Comparator	M	n/a	yes	n/a	CERDIP-8	DSCC or LT Versions Available
LT1011AMJ8		250ns Voltage Comparator	M	n/a	yes	n/a	CERDIP-8	
LT1011MJ8		250ns Voltage Comparator	M	n/a	yes	n/a	CERDIP-8	
LTC1041MJ8		80µs BANG-BANG Controller	M	n/a	yes	n/a	CERDIP-8	
LTC1042MJ8		80µs Window Comparator	M	n/a	yes	n/a	CERDIP-8	
Data Conversion								
LTC1094MJ/883B		10-Bit Serial, 8-Channel 26ksps I/O Data Acquisition System	M	n/a	yes	n/a	CERDIP-20	
LTC1290CMJ		12-Bit, 8-Channel, 50ksps Serial I/O Data Acquisition System	M	n/a	yes	n/a	CERDIP-20	
LTC1292BMJ8		12-Bit, Single Channel, 60ksps Serial I/O Data Acquisition System	M	n/a	yes	n/a	CERDIP-8	
LTC1292BMJ8/883		12-Bit, Single Channel, 60ksps Serial I/O Data Acquisition System	M	n/a	yes	n/a	CERDIP-8	
DC/DC Regulators and Controllers								
LTC1044MJ8		Switched Capacitor Voltage Converter	M	n/a	yes	n/a	CERDIP-8	
LT1054MJ8		100mA Regulated Switched-Capacitor Voltage Converter	M	n/a	yes	n/a	CERDIP-8	
LT1111MJ8/883	5962-9321201MPA	300µA I_Q DC/DC Converter with 1A Power Switch, Adj. or Fixed 5V/12V Output	M	n/a	yes	n/a	CERDIP-8	DSCC or LT Versions Available
LT1072MJ8/883		40kHz 1.25A High Efficiency Switching Regulator	M	n/a	yes	n/a	CERDIP-8	
LT1172MJ8		100kHz, 1.25A Power Switch, High Efficiency Switching Regulator	M	n/a	yes	n/a	CERDIP-8	
LT1172MJ8/883		100kHz, 1.25A High Efficiency Switching Regulator	M	n/a	yes	n/a	CERDIP-8	
LT1244MJ8/883	5962-9319004MPA	High Speed Current Mode Pulse Width Modulator, 16V Start-Up/10V Min Operating Voltage	M	n/a	Yes	n/a	CERDIP-8	DSCC or LT Versions Available
LT1245MJ8		High Speed Current Mode Pulse Width Modulator, 8.4V Start-Up/7.6V Min Operating Voltage	M	n/a	Yes	n/a	CERDIP-8	

MILITARY HERMETIC ICs

Part Number	DSCC SMD#	Description	Temp Range	Gold Terminal Finish	SnPb Terminal Finish	Matte Tin Terminal Finish	Package	Comments[2]
Filters								
LTC1064-4MJ		Low Noise, 8th Order, Lowpass Filter	M	n/a	Yes	n/a	CERDIP-14	
Interface								
LTC485MJ8		Low Power RS485 Interface Transceiver	M	n/a	Yes	n/a	CERDIP-8	
LDO Regulators								
LT1086MH		0.5A Positive Adjustable Regulators, Low Dropout	M	n/a	Yes	n/a	TO-39, 3 Lead	
Power Management								
LM134H/883		Constant Current Source and Temperature Sensor	M	n/a	Yes	n/a	TO-46, 3 Lead	
References[3]								
LT1431MJ8		Prog Reference, 2.5 to 36V Output, 0.4% Initial Accuracy, 50 ppm/°C (Typ) Drift	M	n/a	Yes	n/a	CERDIP-8	
LT580UH		2.5V Precision Voltage Reference, 0.05% Initial Accuracy, 10ppm/°C Drift	M	n/a	Yes	n/a	TO-52, 3 Lead	
LT1009MH/883	5962-8961001XA	Precision 2.5 Volt Reference, 0.2% Initial Accuracy, 35ppm/°C Drift	M	n/a	Yes	n/a	TO-46, 3 Lead	DSCC or LT Versions Available
LM136AH-2.5/883B		2.5Volt Reference, 1% Initial Accuracy, 40ppm/°C	M	n/a	Yes	n/a	TO-46, 3 Lead	
LT1021CMH-5/883	5962-8876202GA	Precision 5 Volt Reference, 0.05% Initial Accuracy, 20ppm/°C Drift	M	n/a	Yes	n/a	TO-5, 8 Lead	DSCC or LT Versions Available
LT1029AMH		5V Bandgap Reference, 0.2% Initial Accuracy, 20ppm/°C	M	n/a	Yes	n/a	TO-46, 3 Lead	
REF02AH		5V Precision Voltage Reference, 0.3% Initial Accuracy, 8.5ppm/°C Drift	M	n/a	Yes	n/a	TO-5, 8 Lead	
REF02AJ8		5V Precision Voltage Reference, 0.3% Initial Accuracy, 8.5ppm/°C Drift	M	n/a	Yes	n/a	CERDIP-8	
LT1021BMH-5/883	5962-8876201GA	Precision 5 Volt Reference, 1% Initial Accuracy, 5ppm/°C Drift	M	n/a	Yes	n/a	TO-5, 8 Lead	DSCC or LT Versions Available
LT1021DMH-5/883	5962-8876203GA	Precision 5 Volt Reference, 1% Initial Accuracy, 20ppm/°C Drift	M	n/a	Yes	n/a	TO-5, 8 Lead	DSCC or LT Versions Available
LM399AH		6.95V Shunt Reference, 2.2% Initial Accuracy, 10ppm/°C	C	n/a	Yes	n/a	TO-46, 4 Lead	
LM399H		6.95V Shunt Reference, 2.2% Initial Accuracy, 15ppm/°C	C	n/a	Yes	n/a	TO-46, 4 Lead	
LM129BH		Precision 6.9Volt Reference, 4.3% Initial Accuracy, 20ppm/°C Drift	M	n/a	Yes	n/a	TO-46, 2 Lead	
LH0070-2H/883	5962-8688203XA	Precision 10 Volt Reference, 0.05% Initial Accuracy, 4ppm/°C Drift	M	n/a	Yes	n/a	TO-39, 3 Lead	DSCC or LT Versions Available
LT1031BMH/883	5962-8980201XA	Precision 10 Volt Reference, 0.05% Initial Accuracy, 5ppm/°C Drift	M	n/a	Yes	n/a	TO-39, 3 Lead	DSCC or LT Versions Available
LT1021CMH-10/883	5962-8860002GA	Precision 10 Volt Reference, 0.05% Initial Accuracy, 20ppm/°C Drift	M	n/a	Yes	n/a	TO-5, 8 Lead	DSCC or LT Versions Available
LH0070-1H/883	5962-8688202XA	Precision 10 Volt Reference, 0.1% Initial Accuracy, 9ppm/°C Drift	M	n/a	Yes	n/a	TO-39, 3 Lead	DSCC or LT Versions Available
LT1031CMH /883	5962-8980202XA	Precision 10 Volt Reference, 0.1% Initial Accuracy, 15ppm/°C Drift	M	n/a	Yes	n/a	TO-39, 3 Lead	DSCC or LT Versions Available
LH0070-0H/883	5962-8688201XA	Precision 10 Volt Reference, 0.1% Initial Accuracy, 18ppm/°C Drift	M	n/a	Yes	n/a	TO-39, 3 Lead	DSCC or LT Versions Available
LT1031DMH/883	5962-8980203XA	Precision 10 Volt Reference, 0.2% Initial Accuracy, 25ppm/°C Drift	M	n/a	Yes	n/a	TO-39, 3 Lead	DSCC or LT Versions Available
LT1021BMH-10/883	5962-8860001GA	Precision 10 Volt Reference, 1% Initial Accuracy, 5ppm/°C Drift	M	n/a	Yes	n/a	TO-5, 8 Lead	DSCC or LT Versions Available
LT1021DMH-10/883	5962-8860003GA	Precision 10 Volt Reference, 1% Initial Accuracy, 20ppm/°C Drift	M	n/a	Yes	n/a	TO-5, 8 Lead	DSCC or LT Versions Available

Notes:
1. Sorted by numbers of amplifiers and GBW.
2. Several data sheets are in the process of being updated. For all products, contact marketing for price and availability.
3. Sorted by reference voltage and initial accuracy.

LINEAR TECHNOLOGY HIGH TEMPERATURE (200°C) X-GRADE HERMETIC PRODUCTS

† Part Number	DSCC SMD#	Description	Temp Range	Gold Terminal Finish	SnPb Terminal Finish	Matte Tin Terminal Finish	Package	Comments
Amplifiers								
LT1007XH		Low Noise, High Speed, Precision Op Amp	X	n/a	n/a	Yes	TO-5, 8 Lead	
References								
LT580XH		2.5V Precision Voltage Reference	X	n/a	n/a	Yes	TO-52, 3 Lead	
LT581XH		10V Precision Voltage Reference	X	n/a	n/a	Yes	TO-39, 3 Lead	
LT582XH		5V Precision Voltage Reference	X	n/a	n/a	Yes	TO-39, 3 Lead	

† Primary Sort Column

X temperature grade products are tested at –55°C, 25°C and 200°C

Reference Material

I. ORDERING INFORMATION

Contact the sales office or distributor in your area for ordering information. Visit www.linear.com/contact for a complete list.

Apply for credit and purchase through Linear Express at www.linear.com/purchase or buy directly on-line with a credit card.

II. RoHS COMPLIANCE and LEAD (Pb) FREE PRODUCTS

Visit www.linear.com/leadfree for more information

a. In compliance with international Reduction of Hazardous Substances (RoHS) mandates, Linear Technology supplies Lead-Free Matte Tin terminal plated products, on all plastic packages (Excluding Hermetic Packages). Devices with Lead Free terminal plating will have the same basic part numbers with the suffix #PBF (lead-free) or #TRPBF (tape-and-reel lead-free) on the container labels. Matte Tin is LTC's standard terminal finish, although solder plated products will continue to be available for the foreseeable future.

b. Lead (Pb) Free ordering examples.

Example 1:
Ordering a part in shipping tubes with a Lead (Pb) Free lead finish:

Lead (Pb) Free Part	Standard Solder Plated Part
LT3481EMSE#PBF	LTC3481EMSE

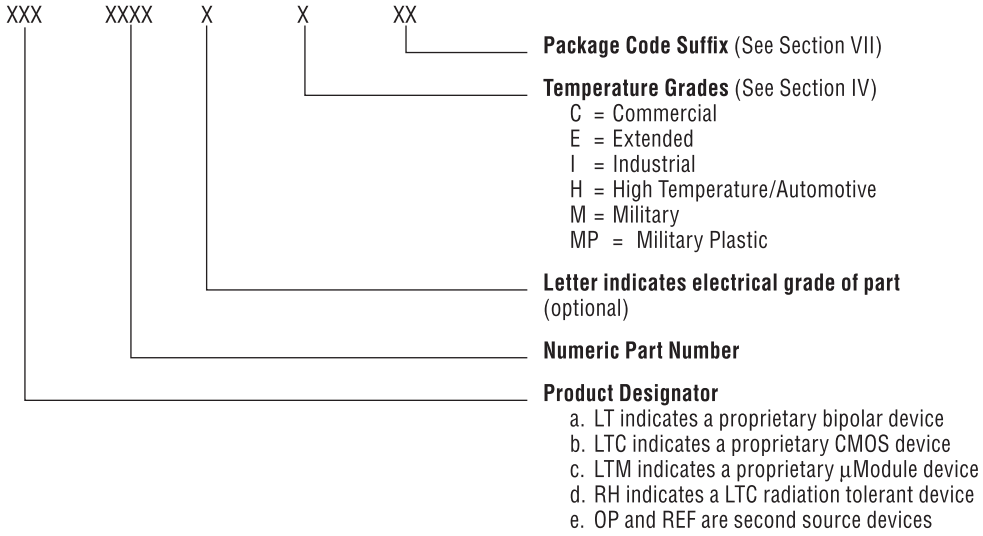
Example 2:
Ordering a part in tape and reel with a Lead (Pb) Free lead finish:

Lead (Pb) Free Part	Standard Solder Plated Part
LT3481EMSE#TRPBF	LTC3481EMSE#TR

c. Lead (Pb) Free part marking.

JEDEC Standard JESD97 defines various Lead (Pb) Free categories with symbols e1 through e7. The symbol e3 applies to products with a Matte Tin (Sn) terminal finish. Since LTC's Lead (Pb) Free products have a Matte Tin (Sn) terminal finish, the symbol e3 is added to the product top marking of larger packages, where space permits. On packages that are too small to accommodate the e3, a "<" symbol is added to the device at the pin 1 location. Lead (Pb) free 2mm × 2mm and 3mm × 2mm packages are identified by rearranging the trace code marking of the device. These Lead (Pb) Free marking indicators were implemented starting with datecode 0514. However, we will continue to ship Pb-Free product, from our existing stock, which was marked prior to 0514 without the indicator.

III. PART NUMBER EXPLANATION



IV. TEMPERATURE GRADES

Temperature Grade	Temperature Range TMIN to TMAX	Room Temp Test (25°C)	Cold Temp Test at TMIN	Hot Temp Test at TMAX
C – Commercial	0°C to 70°C	100%	Sample	Sample
E – Extended	–40°C to 85°C	100%	Sample	Sample
I – Industrial	–40°C to 85°C	100%	Larger Sample	Larger Sample
H – High Temperature/Automotive	–40°C up to 140°C	100%	Larger Sample or 100%	100%
M – Military	–55°C to 125°C	100%	100%	100%
MP – Military Plastic	–55°C to 125°C	100%	100%	100%

* Please refer to the data sheet for exact temperature ranges and additional 100% testing guarantees.

V. RELIABILITY PROGRAMS

Linear Technology Corporation currently offers the following reliability programs:
a. QML/JAN S Devices processed to 38510 slash sheets
b. "R-Flow" burn-in programs for commercial temperature devices (contact factory)
c. Radiation tolerant products using LTC's proprietary radiation hardening process

VI. TAPE and REEL

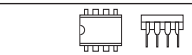
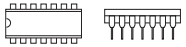
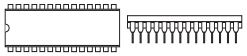
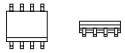
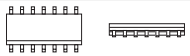
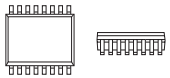
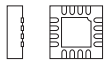
For More Information Visit www.linear.com/tapeandreel

Tape and reel packing is ordered with a '#TRPBF' suffix for lead free finish parts, or a '#TR' suffix for lead based finish parts. See the Package Rail and Reel Counts section for reel quantities by package type. Some packages are available in 500 unit reels through designated sales channels. 500 unit reels are ordered with a '#TRMPBF' or '#TRM' suffix.

VII. PACKAGE CODE SUFFIXES

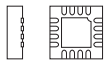
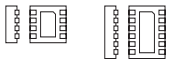
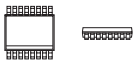
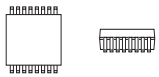
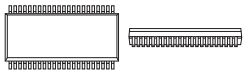
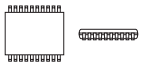
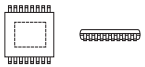
Suffix Designator	Package Name	Number of Leads	Package Dimensions, Body
DC	DFN	3, 4, 6 or 8	2mm × 2mm
DCB	DFN	6, 8	2mm × 3mm
DD	DFN	8, 10 or 12	3mm × 3mm
DDB	DFN	8, 10 or 12	3mm × 2mm
DE	DFN	12, 14 or 16	4mm × 3mm
UE	DFN	12	4mm × 3mm
DF	DFN	12	4mm × 4mm
DH	DFN	16	5mm × 5mm
DHC	DFN	16	5mm × 3mm
DHD	DFN	16	5mm × 4mm
DJC	DFN	22	6mm × 3mm
DJD	DFN	24	6mm × 4mm
DKD	DFN	32	7mm × 4mm
F	TSSOP	14	5mm × 4.4mm
F	TSSOP	20	6.5mm × 4.4mm
FW	TSSOP	48	12.5mm × 6.1mm
FW	TSSOP	56	14mm × 6.1mm
FE	eTSSOP, Exposed Pad	16	5mm × 4.4mm
FE	eTSSOP, Exposed Pad	20	6.5mm × 4.4mm
FE	eTSSOP, Exposed Pad	24	7.8mm × 4.4mm
FE	eTSSOP, Exposed Pad	28, 38	9.7mm × 4.4mm
G	SSOP	16, 20	6.2mm × 5.3mm
G	SSOP	24	8.2mm × 5.3mm
G	SSOP	28	10.2mm × 5.3mm
G	SSOP	36, 44	12.8mm × 5.3mm
GN	SSOP	16	4.8mm × 3.8mm (150mils)
GN	SSOP	20, 24	8.6mmm × 3.8mm (150mils)
GN	SSOP	28	9.8mm × 3.8mm (150mils)
GW	SSOP	36	15.4mm × 7.6mm (300mils)
GW	SSOP	44	17.8mm × 7.6mm (300mils)
H	TO-52, TO-39 or TO-46 Metal Can	2, 3 or 4	
H	TO-5 Metal Can	8, 10	
K	TO-3 Metal Can	2	
KC	UTDFN	8	2mm × 2mm
KD	UTDFN	10	3mm × 3mm
KE	UTDFN	14	4mm × 3mm
L	LLC (Leadless Chip Carrier)	20	7.1mm × 10.7mm
LS	LLC (Leadless Chip Carrier)	20	8.9mm × 8.9mm
LX	LQFP	48	7mm × 7mm
LXE	eLQFP, Exposed Pad	48	7mm × 7mm
M	DD Pak	3	
MS	MSOP	8, 10	3mm × 3mm
MS	MSOP	12, 16	3mm × 4mm
MSE	MSOP/E, Exposed Pad	8, 10	3mm × 3mm
MSE	MSOP/E, Exposed Pad	12, 16	3mm × 4mm
N	PDIP	20	26.9mm × 7.6mm
N8	PDIP	8	10.2mm × 7.6mm (300mils)
N	PDIP	14,16	19.6mm × 7.6mm
N	PDIP	18	23.4mm × 7.6mm
N	PDIP	24, 28	32.5mm × 7.6mm
NW	PDIP	28, 36	37mm × 15.2mm (600mils)
P	TO-3P	3	Similar to TO-247
PD	UTQFN	16, 20	3mm × 3mm
PDC	UTQFN	20	3mm × 4mm
PF	UTQFN	24, 28	4mm × 4mm
Q	DD Pak	5	
R	DD Pak	7	
S	SOIC	8	4.8mm × 3.8mm (150 mils)
S	SOIC	14	8.6mm × 3.8mm
S	SOIC	16	9.8mm × 3.8mm
SC	SC-70	6, 8	2.0mm × 2.1mm*
ST	SOT-223	3	6.3mm × 6.7mm*
SW	Wide SOIC	16	10.1mm × 7.6mm (300mils)
SW	Wide SOIC	18	11.4mm × 7.6mm
SW	Wide SOIC	20	12.6mm × 7.6mm
SW	Wide SOIC	24	15.2mm × 7.6mm
SW	Wide SOIC	28	17.7mm × 7.6mm
S3	SOT-23	3	2.3mm × 2.9mm*
S5	ThinSOT	5	2.8mm × 2.9mm*
S6	ThinSOT	6	2.8mm × 2.9mm*
TS	ThinSOT	8	2.8mm × 2.9mm*
T	TO-220	3, 5 or 7	
UD	QFN	16, 20	3mm × 3mm
UDC	QFN	20, 24	3mm × 4mm
UDD	QFN	24	3mm × 5mm
UE	DFN	12	4mm × 3mm
UF	QFN	16, 20, 24 or 28	4mm × 4mm
UFD	QFN	20, 24 or 28	4mm × 5mm
UFE	QFN	26, 38	4mm × 6mm
UFF	QFN	34, 44	4mm × 7mm
UFH	QFN	44	4mm × 9mm
UH	QFN	20, 24, 32 or 40	5mm × 5mm
UHE	QFN	28, 36	5mm × 6mm
UHF	QFN	38	5mm × 7mm
UHG	QFN	52	5mm × 8mm
UHH	QFN	56	5mm × 9mm
UJ	QFN	40	6mm × 6mm
UK	QFN	44, 48	7mm × 7mm
UKG	QFN	52	7mm × 8mm
UKH	QFN	64	7mm × 9mm
UL	QFN	56	8mm × 8mm
UP	QFN	64	9mm × 9mm
V	LGA	Various(1)	Various(1)
WKG	QFN (MultiPAD)	52	7mm × 8mm
WP	QFN (MultiPAD)	64	9mm × 9mm
Z	TO-92	3	

Note 1: See individual data sheet or LTC website
*Includes Leads

	PACKAGE OUTLINE*	DESCRIPTION	LTC	NSC	ADI	TI/BURR-BROWN	MAXIM
PDIP Plastic Dual-In-Line		8-Lead PDIP, Plastic Dual-In-Line	N8	N, N8	N	P	P
		14-, 16-, 18-, 20-, 24- and 28-Lead PDIP, Plastic Dual-In-Line (Narrow 0.300)	N	N, N14	N	N, NE	ND, NE, NN, NP, NG
		28-Lead PDIP, Plastic Dual-In-Line (Wide 0.600)	NW	—	N	N	PI
SOT and SC70 Small Outline		3-Lead SOT-223 Small Outline Transistor	ST	MP	KC	—	UR
		3-Lead SOT-23	S3	M3	RT	DBZ	UR, US
		5-, 6- and 8-Lead TSOT	S5, S6, TS8	M5, M6	UJ	DBV	UT, UK
		6- and 8-Lead SC70	SC6, SC8	MG	KS	DCK	XT
SO Small Outline		8-Lead SO (Narrow 0.150)	S8	M	R	D	SA
		14- and 16-Lead Plastic SO (Narrow 0.150)	S	M	R	D	SD, SE
		16-, 18-, 20-, 24- and 28-Lead SO (Wide 0.300)	SW	M	R	D	WE, WN, WP, WF, WG, WI
MSOP, eMSOP		8-, 10-, 12- and 16-Lead, Micro Small Outline Package (MSOP)	MS8, MS	MM	RM	DGK	UA, UB
		8-, 10-, 12- and 16-Lead Micro Small Outline Package (MSOP), Exposed Die Pad Option (MSOP/E)	MS8E, MSE	—	RH	—	UA, UB
QFN (U) Quad Flat No Lead		16- and 20-Lead QFN (3mm × 3mm)	UD	—	CP**	RGT	TE, TP
		20- and 24-Lead QFN (3mm × 4mm)	UDC	—	—	—	—
		24-Lead QFN (3mm × 5mm)	UDD	—	—	—	—
		16-, 20-, 24- and 28-Lead QFN (4mm × 4mm)	UF	LQA	CP**	RGT, RGF	TE, TP, TG, TI
		20-, 24- and 28-Lead QFN (4mm × 5mm)	UFD	LQA, SQA	CP**	—	—
		26- and 38-Lead QFN (4mm × 6mm)	UFE	—	—	—	—
		34- and 44-Lead QFN (4mm × 7mm)	UFF	—	—	—	—
		44-Lead QFN (4mm × 9mm)	UFH	—	—	—	—
		24-, 32- and 40-Lead QFN (5mm × 5mm)	UH	LQA	CP**	RGW, RHB, RTM**	TG, TJ, TL
		28- and 36-Lead QFN (5mm × 6mm)	UHE	—	—	—	—
		38-Lead QFN (5mm × 7mm)	UHF	—	—	RGF	—
		52-Lead QFN (5mm × 8mm)	UHG	—	—	—	—
		56-Lead QFN (5mm × 9mm)	UHH	—	—	—	—
		40-Lead QFN (6mm × 6mm)	UJ	LQA, SQA	CP**	RTA, RTB	TL
		44- and 48-Lead QFN (7mm × 7mm)	UK	SQA	CP**	RTC, RGN, RGZ**	TH, TM
		52-Lead QFN (7mm × 8mm)	UKG	—	—	—	—
		64-Lead QFN (7mm × 9mm)	UKH	—	—	—	—
		56-Lead QFN (8mm × 8mm)	UL	—	CP**	—	—
		64-Lead QFN (9mm × 9mm)	UP	—	CP**	RGC, RTD**	—
		52-Lead MultiPAD QFN (7mm × 8mm)	WKG	—	—	—	—
		64-Lead MultiPAD QFN (9mm × 9mm)	WP	—	CP**	—	—

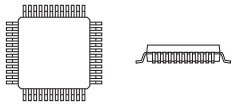
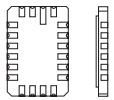
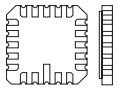
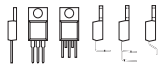
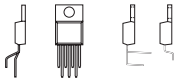
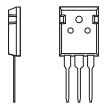
*Package Outlines Not to Scale
**Closest Package, Comparable Footprint

See www.linear.com for additional and recently added packages

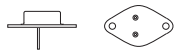
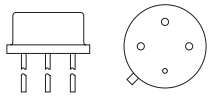
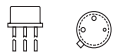
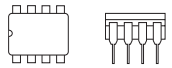
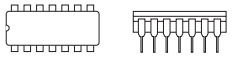
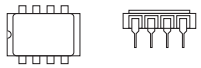
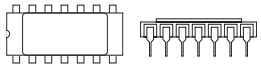
	PACKAGE OUTLINE*	DESCRIPTION	LTC	NSC	ADI	TI/BURR-BROWN	MAXIM
Proprietary Device Prefixes			LT, LTC, LTM	LF, LP, LH, MF, LM, LMH, LMV, ADC, DAC	AD, OP, REF, ADA, ADCMP, ADG, ADM, ADR, ADL, ADP, ADT, ADV	TL, TLC, TLV, THS, INA, OPA, ADS, DAC	MAX, DS
QFN (W) Quad Flat No Lead		52-Lead (7mm × 8mm)	WKG	—	—	—	—
		64-Lead (9mm × 9mm)	WP	—	—	—	—
UTQFN Ultra-Thin Quad Flat No Lead		16- and 20-Lead (3mm × 3mm)	PD	—	—	—	V
		20-Lead (3mm × 4mm)	PDC	—	—	—	—
		24- and 28-Lead (4mm × 4mm)	PF	—	—	—	—
DFN Dual Flat No Lead		3-, 4-, 6- and 8-Lead DFN (2mm × 2mm)	DC	—	CP**	—	LA
		6- and 8-Lead DFN (2mm × 3mm)	DCB	—	CP**	—	—
		8-, 10- and 12-Lead DFN (3mm × 3mm)	DD	—	CP**	DRB, DRC	TA
		8-, 10- and 12-Lead DFN (3mm × 2mm)	DDB	—	CP**	—	LA
		12-, 14 and 16-Lead DFN (4mm × 3mm)	DE	—	—	—	—
		12-Lead DFN (4mm × 3mm)	UE	—	—	—	—
		12-Lead DFN (4mm × 4mm)	DF	—	—	—	—
		16-Lead DFN (5mm × 5mm)	DH	—	—	—	—
		16-Lead DFN (5mm × 3mm)	DHC	—	—	—	—
		16-Lead DFN (5mm × 4mm)	DHD	—	—	—	—
		22-Lead DFN (6mm × 3mm)	DJC	—	—	—	—
		24-Lead DFN (6mm × 4mm)	DJD	—	—	—	—
		32-Lead DFN (7mm × 4mm)	DKD	—	—	—	—
UTDFN Ultra-Thin Dual Flat No Lead		8-Lead (2mm × 2mm)	KC	—	—	—	—
		10-Lead (3mm × 3mm)	KD	—	—	—	—
		12- and 14-Lead (4mm × 3mm)	KE	—	—	—	—
SSOP Shrink Small Outline		16-, 20-, 24- and 28-Lead SSOP (Narrow 0.150)	GN	MQ	RS	DBQ	A
		16-, 20-, 24-, 28-, 36- and 44-Lead Plastic SSOP (5.3mm)	G	MS	RS	DB	AP, APG, AT
		36- and 44-Lead SSOP (Wide 0.300)	GW	MS	—	DB	AX
TSSOP, eTSSOP Thin Shrink Small Outline		14-, 20-, 24- and 28-Lead TSSOP (4.4mm)	F	MT	RU	DL, PW	UP, UG, UI
		48- and 56-Lead TSSOP (6.1mm)	FW	MT	RV	DGG	UM
		16-, 20-, 24-, 28- and 38-Lead TSSOP (4.4mm) Exposed Die Pad eTSSOP	FE	MH, MT	RE	PWP	UP

*Package Outlines Not to Scale
**Closest Package, Comparable Footprint, Higher Height

See www.linear.com for additional and recently added packages

	PACKAGE OUTLINE*	DESCRIPTION	LTC	NSC	ADI	TI/BURR-BROWN	MAXIM
Proprietary Device Prefixes			LT, LTC, LTM	LF, LP, LH, MF, LM, LMH, LMV, ADC, DAC	AD, OP, REF, ADA, ADCMP, ADG, ADM, ADR, ADL, ADP, ADT, ADV	TL, TLC, TLV, THS, INA, OPA, ADS, DAC	MAX, DS
LQFP, eLQFP Leaded Quad Flat Pak		48-Lead (7mm × 7mm) LQFP	LX	—	ST	—	C
		48-Lead (7mm × 7mm Exposed Pad) eLQFP	LXE	—	—	—	—
LCC		20-Pin Leadless Chip Carrier (Rectangular, Hermetic)	L	E	E	FN, FK	L
		20-Pin Leadless Chip Carrier (Square 0.350, Hermetic)	LS	E	E	FN, FK	L
FLATPAK (CERPAK)		10- and 14-Lead Flatpak (Cerpak) Glass Sealed (Hermetic)	W	W	L	UO10	FB
DD PAK		3-Lead DD Pak	M	S	—	—	—
		5-Lead DD Pak	Q	S	—	—	—
		7-Lead DD Pak	R	S	—	—	—
TO-220		3- and 5-Lead TO-220	T	T	—	KC, KV	C
		7-Lead TO-220 (Formerly Y Package)	T7	—	—	KC	C
TO-92		3-Lead, TO-92 Package	Z	Z	T	LP	C
TO-3P (TO-247)		3-Lead TO-3P (Similar to TO-247)	P	—	—	—	K

*Package Outlines Not to Scale

	PACKAGE OUTLINE*	DESCRIPTION	LTC	NSC	ADI	TI/BURR-BROWN	MAXIM
Proprietary Device Prefixes			LT, LTC, LTM	LF, LP, LH, MF, LM, LMH, LMV, ADC, DAC	AD, OP, REF, ADA, ADCMP, ADG, ADM, ADR, ADL, ADP, ADT, ADV	TL, TLC, TLV, THS, INA, OPA, ADS, DAC	MAX, DS
METAL CANS		2-Lead TO-3 Metal Can	K				
		8- and 10-Lead TO-5 Metal Can	H	H	H	—	TV, TW, VS
		3- and 4-Lead TO-39 Metal Can	H	H	H	—	TV, TW, VS
		2-, 3- and 4-Lead Standard TO-46 Metal Can or in Thermal Caps	H	H	H	—	—
		3-Lead TO-52 Metal Can	H	—	—	—	SR
CERDIP Ceramic Dual-In-Line		8-Lead Ceramic DIP (Hermetic)	J8	J, J8	Q	JG	JA
		14- and 16-Lead Ceramic DIP (Narrow 0.300, Hermetic)	J	J, J14, J16	D, Q	J	RD, RN, RE, RP
SIDE BRAZED		8-Lead Side Brazed (Hermetic)	D8	D	D	—	DA
		14-, 16-, 18-, and 20-Lead Side Brazed (Hermetic)	D	D	D	—	DD, DE, DN, DP
Proprietary Device Prefixes			LT, LTC, LTM	LF, LP, LH, MF, LM, LMH, LMV, ADC, DAC	AD, OP, REF, ADA, ADCMP, ADG, ADM, ADR, ADL, ADP, ADT, ADV	TL, TLC, TLV, THS, INA, OPA, ADS, DAC	MAX, DS

*Package Outlines Not to Scale

PACKAGE TYPE	PACKAGE BODY		PACKAGE CODE	PACKAGE STYLE = Package Code + Lead Count (QFN/DFN/UTQFN/UTDFN - 0.50 mm lead pitch unless otherwise stated)	RAIL/BULK QUANTITY	REEL QUANTITY
	WIDTH mm (Inch)	THICKNESS mm (Inch)				
PDIP	7.62 (0.300)	3.30 (0.130)	N8	N8	50	Not Applicable
			N	N14	25	
				N16	25	
				N18	20	
				N20	18	
				N24	15	
				N28	47	
	15.24 (0.600)	3.81 (0.150)	NW	NW28	14	
SOT-23	1.3 (0.051)	0.95 (0.037)	S3	S3	1000 (Bulk)	2500*
TSOT (SOT-23)	1.6 (0.063)	0.86 (0.034)	S5	S5	1000 (Bulk)	2500*
			S6	S6	1000 (Bulk)	2500*
			TS8	TS8	1000 (Bulk)	2500*
SOT 223	3.5 (0.138)	1.57 (0.062)	ST	ST3	78	2000
SC 70	1.25 (0.049)	0.90 (0.035)	SC6	SC6	1000 (Bulk)	2500*
			SC8	SC8	1000 (Bulk)	2500*
SOIC	3.81 (0.150)	1.47 (0.058)	S8	S8	100	2500
			S	S14	55	2500
				S16	50	2500
	7.62 (0.300)	2.29 (0.090)	SW	SW16	47	1000
				SW18	40	1000
				SW20	38	1000
				SW24	32	1000
				SW28	27	1000
MSOP (pkg. code suffix E = exposed Pad)	3.00 (0.118)	0.85 (0.034)	MS8	MS8	50	2500
			MS	MS10	50	2500
				MS12 / MS16	37	2500
			MS8E	MS8E	50	2500
			MSE	MSE10	50	2500
				MSE12 / MSE16	37	2500
SSOP	5.3 (0.209)	1.47 (0.058)	G	G16	77	2000
				G20	66	1800
				G24	59	1800
				G28	47	2000
				G36, G44	37	2000
	3.81 (0.150)	1.47 (0.058)	GN	GN16	100	2500
				GN20	55	2500
				GN24	55	2500
				GN28	49	2500
	7.62 (0.300)	2.8 (0.110)	GW	GW36	32	1000
				GW44	27	1000
TSSOP	6.10 (0.240)	1.0 (0.040)	FW	FW48	39	1800
				FW56	35	1800

PACKAGE TYPE	PACKAGE BODY		PACKAGE CODE	PACKAGE STYLE = Package Code + Lead Count (QFN/DFN/UTQFN/UTDFN - 0.50 mm lead pitch unless otherwise stated)	RAIL/BULK QUANTITY	REEL QUANTITY
	WIDTH mm (Inch)	THICKNESS mm (Inch)				
TSSOP/eTSSOP (eTSSOP = exposed Pad, pkg. code suffix = E)	4.4 (0.173)	1.0 (0.040)	F/FE	F14 / FE16	95	2500
				F20 / FE20	74	2500
				F24 / FE24	62	2500
			FE	FE28 / FE38	50	2000
QFN pkg. code prefix = U	3 × 3	0.80 (0.0315)	UD	UD16 / UD20 (0.45)	121	2500
	3 × 4		UDC	UDC20 / UDC20MA / UDC24 (0.40)	91	2500
	3 × 5		UDD	UDD24	73	2500
	4 × 4	0.80 (0.0315)	UF	UF16 (0.65) / UF20 / UF24 / UF28 (0.40)	91	2500
	4 × 5		UFD	UFD20 / UFD24 / UFD28	73	2500
	4 × 6		UFE	UFE26 / UFE38 (0.40)	61	2500
	4 × 7		UFF	UFF34 / UFF44 (0.40)	52	2500
	4 × 9		UFH	UFH44	40	2500
	5 × 5	0.80 (0.0315)	UH	UH20 (0.65) / UH24 (0.65) / UH32 / UH40 (0.40)	73	2500
	5 × 6		UHE	UHE28 / UHE36	61	2500
	5 × 7		UHF	UHF38	52	2500
	5 × 8		UHG	UHG52 (0.40)	45	2500
	5 × 9		UHH	UHH56 (0.40)	40	2500
	6 × 6	0.80 (0.0315)	UJ	UJ40	61	2000
	7 × 7		UK	UK44 / UK48	52	2000
	7 × 8		UKG	UKG52	45	2000
	7 × 9		UKH	UKH64 (0.40)	40	2000
	8 × 8		UL	UL56	45	2000
	9 × 9		UP	UP64	40	2000
QFN pkg. code prefix = W	7 × 8	1.00 (0.0394)	WKG	WKG52	45	2000
	9 × 9		WP	WP64	40	2000
UTQFN pkg. code prefix = P	3 × 3	0.60 (0.0236)	PD	PD16 / PD20 (0.40)	121	2500
	3 × 4		PDC	PDC20	91	2500
	4 × 4		PF	PF24 / PF28 (0.40)	91	2500
DFN pkg. code prefix = D except UE12	2 × 2	0.80 (0.0315)	DC	DC3 / DC4 (0.45) / DC6 / DC8 (0.45)	1000 (Bulk)	2500*
	2 × 3		DCB	DCB6 / DCB8 (0.45)	1000 (Bulk)	2500*
	3 × 2		DDB	DDB8 / DDB10 / DDB12 (0.45)	1000 (Bulk)	2500*
	3 × 3		DD	DD8 / DD10 / DD12 (0.45) / DD12MA (0.45)	121	2500
	4 × 3		DE	DE12 / DE14 / DE14MA / DE16 (0.45) / DE16MA (0.45)	91	2500
			UE	UE12	91	2500
	4 × 4	0.80 (0.0315)	DF	DF12	91	2500
	5 × 3		DHC	DHC16	73	2500
	5 × 4		DHD	DHD16	73	2500
	5 × 5		DH	DH16	73	2500
	6 × 3		DJC	DJC22	61	2500
	6 × 4		DJD	DJD24	61	2500
	7 × 4		DKD	DKD32 (0.40)	52	2500

PACKAGE RAIL AND REEL COUNTS

PACKAGE TYPE	PACKAGE BODY		PACKAGE CODE	PACKAGE STYLE = Package Code + Lead Count (QFN/DFN/UTQFN/UTDFN - 0.50 mm lead pitch unless otherwise stated)	RAIL/BULK QUANTITY	REEL QUANTITY
	WIDTH mm (Inch)	THICKNESS mm (Inch)				
UTDFN pkg. code prefix = K	2 × 2	0.60 (0.0236)	KC	KC8 (0.45)	1000 (Bulk)	2500*
	3 × 3		KD	KD10	121	2500
	4 × 3		KE	KE14	91	2500
DD Pak	10.16 (0.400)	4.44 (0.175)	M	M3	50	750
			Q	Q5	50	750
			R	R7	50	750
LGA	Various	Various	V	Various. See Individual Data Sheet For Specific Drawing Number	Various/Tray	Not Applicable
LQFP / eLQFP (eLQFP = exposed pad, pkg. code suffix E)	7 × 7	1.60 (0.0629)	LX	LX48	250/Tray	Not Applicable
			LXE	LXE48	250/Tray	
LCC	6.35 (0.250)	1.96 (0.077)	L	L20	40	Not Applicable
	7.62 (0.300)		LS	LS20	40	
Side Brazed	7.62 (0.300)	3.30 (0.130)	D	D8	35	Not Applicable
				D14	25	
				D16	25	
				D18	20	
				D20	20	
TO-3	12.70 (0.500)	8.51 (0.335)	K	K2	20/Rail	Not Applicable
TO-3P (Similar to TO-247)	16.00 (0.630)	5.00 (0.197)	P	P3	30	
TO-5	8.97 (0.353)	4.44 (0.175)	H	H8	20/Tray; 500/Bag	
				H10		
TO-39	9.14 (0.360)	4.44 (0.175)	H	H3		
				H4		
TO-46	5.44 (0.214)	2.41 (0.095)	H	H2		
				H3		
				H4		
TO-46 with Thermal Cap	10.59 (0.417)	5.93 (0.233)	H	H2		
				H3		
				H4		
TO-52		3.43 (0.135)	E	E3		
TO-220	10.16 (0.400)	4.44 (0.175)	T	T3	50	
				T5	50	
			T7	T7	50	

*Packages marked with an asterisk (*) are available in 500 unit reels through designated sales channels. 500 unit reels are ordered with a '#TRMPBF' or '#TRM' suffix.

Package Type	Package Code	Style Lead Count	Theta JC °C/W	Theta JA °C/W	Pin Common to Substrate — Board Type
Metal Can	K	TO-3 2L	3	35	Case
		TO-3 4L	3	35	Case
Metal Can	H	TO-5	40	150	—
		TO-39	15	150	Pin 3*
		TO-46	80	440	Pin 3*
		TO-52	N/A	360	Pin 3*
CERDIP	J8	J8	30	110	—
CERDIP	J	J14	25	95	—
		J16	25	85	—
		J18	20	75	—
		J20	15	70	—
		J24	10	65	—
		J28	7	55	
Side Brazed	D8	D8	30	100	—
Side Brazed	D	D14	25	85	—
		D16	25	80	—
		D18	20	75	—
		D20	15	70	—
LCC	L	LCC 20L	40	100	—
Flat Pack Glass Sealed	W	W10	40	170	—
		W14	40	160	—
Flat Pack Bottom Brazed	WB	WB10	40	160	—
		WB14	40	150	—
Plastic TO	P	TO-3P 3L (TO-247)	1.5	45	Pin 2
Plastic TO	Z	TO-226 3L (TO-92)	—	160	Pin 1 or 2 (By Device)
Plastic TO	T	TO-220 3L	3	50	Pin 2
	T	TO-220 5L	3	50	Pin 3
	T7	TO-220 7L	3	50	Pin 4
Plastic DD	M	DD Pak 3L	3	30	Pin 2
	Q	DD Pak 5L	3	30	Pin 3
	R	DD Pak 7L	3	30	Pin 4
Plastic PDIP 300mil	N8	N8, Cu	45	100	—
		N8, A42	50	150	—
Plastic PDIP 300mil	N	N14	50	130	—
		N16	50	130	—
		N18	40	120	—
		N20	35	100	—
		N24	30	65	—
Plastic PDIP 300mil	N	N14, Cu	33	70	4 Layer
		N16, Cu	34	70	4 Layer
		N18, Cu	29	65	4 Layer
		N20, Cu	28	62	4 Layer
		N24, Cu	27	60	4 Layer
		N28, Cu	30	59	4 Layer

Package Type	Package Code	Style Lead Count	Theta JC °C/W	Theta JA °C/W	Pin Common to Substrate — Board Type
Plastic SC70	SC6	SC70, 6L, Cu 2 Pins Fused	—	270	Multilayer
	SC8	SC70, 8L, Cu 3 Pins Fused	—	270	Multilayer
Plastic SOT TSOT	S3	SOT-23, 3L, A42 1 Pin Fused	100	180	Pin 2 Single Layer
	S5	TSOT-23, 5L, Cu 1 Pin Fused	50	215	Pin 2 4 Layer
	S6	TSOT-23, 6L, Cu 1 Pin Fused	51	192	Pin 2 4 Layer
	TS8	TSOT-23, 8L, Cu 1 Pin Fused	47	195	Pin 4 4 Layer
Plastic SOT	ST	SOT-223	15	60 (est.)	Pin 2
Plastic MSOP 3mm	MS8	MS 8L, Cu	40	200	Single Layer
	MS8	MS 8L, A42	45	300	Single Layer
	MS	MS 10L, Cu	45	120	4 Layer
	MS8E	MSE 8L, Cu Exposed Die Pad	5-10	35-40	Multilayer
	MSE	MSE 10L, Cu Exposed Die Pad	5-10	35-40	Multilayer
	MS12	MS 12L, Cu	21	135	4 Layer
	MS16	MS 16L, Cu	21	120	4 Layer
	MSE12, MSE16	MSE 12L, Cu Exposed Die Pad	5-10	50	4 Layer
		MSE 16L, Cu Exposed Die Pad	5-10	50	4 Layer
Plastic SO 150mil	S8	S8, Cu	39	150	Single Layer
		S8, A42	—	190	Single Layer
Plastic SO 150mil	S8	S8, Cu, 2 Pins Fused	37	110	Single Layer
		S8, Cu, 3 Pins Fused	35	90	Single Layer
Plastic SO 150mil	S	S14, Cu	37	88	4 Layer
		S14, A42	—	160	Single Layer
		S16, Cu	30	100	Single Layer
		S16, A42	—	150	Single Layer
Plastic SO 150mil	S	S14, Cu	37	90	4 Layer
		S16, Cu	24	75	4 Layer
		S16, Cu, 4 Pins Fused	22	65	4 Layer
Plastic SO 300mil	SW	SW16	30	90	Single Layer
		SW18	27	85	Single Layer
		SW20	25	80	Single Layer
		SW24	23	75	Single Layer
		SW28	20	70	Single Layer
Plastic SSOP 150mil	GN	GN16, 4 Pins Fused	37	90	4 Layer
Plastic SSOP 150mil	GN	GN16	40	110	4 Layer
		GN20	30	90	4 Layer
		GN24	30	85	4 Layer
		GN28	25	80	4 Layer
Plastic SSOP 5.3	G	G20	30	110	Single Layer
		G24, G36	25	90	Single Layer
		G28, G44	25	90	Single Layer
Plastic SSOP 300mil	GW	GW36	20	80	Single Layer
		GW44	17	70	Single Layer
Plastic LQFP/eLQFP	LX	LX48	—	55	4 Layer
	LXE	LXE48	—	36	4 Layer

Package Type	Package Code	Style Lead Count	Theta JC °C/W	Theta JA °C/W	Pin Common to Substrate — Board Type
Plastic TSSOP 4.4	F	F14	17	100	4 Layer
	F	F20	20	90	4 Layer
	F	F20, 4 Pins Fused	18	80	4 Layer
	FE	FE16, FE20, FE24, FE28, FE38 Exposed Die Pad	See specific device data sheet for thermal information.		
Plastic TSSOP 6.1	FW	FW48	—	110 (est.)	4 Layer
		FW56	21 (est.)	95 (est.)	4 Layer
Plastic DFN (Exposed Pad)					
2 × 2	DC, KC	DC3, DC4, KC8	17.2	88.5	4 Layer
		DC6, DC8	17.2	88.5	4 Layer
2 × 3	DCB	DCB6, DCB8	10.6	64	4 Layer
3 × 2	DDB	DDB8, DDB10, DDB12	13.5	76	4 Layer
3 × 3	DD, KD	DD8	7.5	43	4 Layer
		DD10, KD10	7.5	43	4 Layer
		DD12	7.5	43	4 Layer
4 × 3	DE, UE	DE12, UE12	5.0	43	4 Layer
4 × 3	DE, KE	DE14, DE16, KE14	5.0	43	4 Layer
4 × 4	DF	DF12	4.0	37	4 Layer
5 × 3	DHC	DHC16	5.0	43	4 Layer
5 × 4	DHD	DHD16	4.3	43	4 Layer
5 × 5	DH	DH16	3.0	34	4 Layer
6 × 3	DJC	DJC22	4.3	47	4 Layer
6 × 4	DJD	DJD24	4.3	37	4 Layer
7 × 4	DKD	DKD32	3.0	34	4 Layer
Plastic QFN (Exposed Pad)					
3 × 3	UD, PD	UD16, UD20, PD16, PD20	7.5	68	4 Layer
3 × 4	UDC, PDC	UDC20, PDC20	5.0	43	4 Layer
		UDC24	5.0	43	4 Layer
3 × 5	UDD	UDD24	5.0	43	4 Layer
4 × 4	UF, PF	UF16	4.3	37	4 Layer
		UF20	4.3	37	4 Layer
		UF24, PF24	4.3	37	4 Layer
		UF28, PF28	4.3	37	4 Layer
4 × 5	UFD	UFD20	3.2	34	4 Layer
		UFD24	3.2	34	4 Layer
		UFD28	3.2	34	4 Layer
4 × 6	UFE	UFE26, UFE38	3.0	34	4 Layer
4 × 7	UFF	UFF34, UFF44	3.0	34	4 Layer
4 × 9	UFH	UFH44	3.0	34	4 Layer
5 × 5	UH	UH20, UH24, UH32, UH40	3.0	34	4 Layer
5 × 6	UHE	UHE36	2.0	34	4 Layer
5 × 7	UHF	UHF38	2.0	34	4 Layer
5 × 8	UHG	UHG52	2.0	31	4 Layer
5 × 9	UHH	UHH56	2.0	31	4 Layer
6 × 6	UJ	UJ40	2.0	33	4 Layer
7 × 7	UK	UK44, UK48	1.0	29	4 Layer
7 × 8	UKG	UKG52	1.0	29	4 Layer
7 × 9	UKH	UKH64	1.0	29	4 Layer
8 × 8	UL	UL56	1.0	28	4 Layer
9 × 9	UP	UP64	1.0	29	4 Layer

Consult individual data sheets for product-specific values or requirements.
These values are offered for general reference use.
DFN and QFN package type dimensions are mm x mm.
The values for Plastic Packages are for copper material and non-fused type unless otherwise shown in STYLE LEAD COUNT column.
Construction variations, such as leads fused internally to Die Attach Pad, and PCB copper layout, significantly influence thermal performance.
Cu = Copper; A42 = Alloy 42. * 3-Lead Versions, Metal Can.

The following list (sorted by top mark and part number) contains surface mount parts with abbreviated top mark codes due to the limited space available for marking on the package. Lead free parts include an additional "e3" or "<" symbol. For more information, visit www.linear.com/leadfree. The designator "LT" may be either the stylized LT logo or block sans serif type depending on the marking method used.

TOP MARK	FULL PART NUMBER
019A25	LT1019ACS8-2.5
019AI5	LT1019AIS8-5
0412	LT1004CS8-1.2
0412I	LT1004IS8-1.2
0425	LT1004CS8-2.5
0425I	LT1004IS8-2.5
04AI33	LTC1504AIS8-3.3
050HVH	LTC2050HVHS8
050HVI	LTC2050HVIS8
051HVH	LTC2051HVHS8
051HVI	LTC2051HVIS8
052HVH	LTC2052HVHGN
052HVI	LTC2052HVIGN
1001	LT1001CS8
1006	LT1006S8
1007	LT1007CS8
1007I	LT1007IS8
1008	LT1008S8
1009	LT1009S8
1009I	LT1009IS8
1011	LT1011CS8
1011AI	LT1011AIS8
1011I	LT1011IS8
1012	LT1012S8
1012A	LT1012ACS8
1012AI	LT1012AIS8
1012I	LT1012IS8
1013	LT1013DS8
1013I	LT1013IS8
1016	LT1016CS8
1016I	LT1016IS8
1017	LT1017CS8
1017I	LT1017IS8
1018	LT1018CS8
1018I	LT1018IS8
1019A5	LT1019ACS8-5
1025	LT1025CS8
1026	LT1026CS8
1026I	LT1026IS8
1027C5	LT1027CCS8-5
1027D5	LT1027DCS8-5
1027E5	LT1027ECS8-5
1028	LT1028CS8
1034I12	LT1034IS8-1.2
1037	LT1037CS8
1037I	LT1037IS8
1041	LTC1041CS8
1044	LTC1044CS8
1044/R	LTC1044CS8/R
1044A	LTC1044ACS8
1044AI	LTC1044AIS8
1046	LTC1046CS8
1046I	LTC1046IS8
1049	LTC1049CS8
1050	LTC1050CS8
1050H	LTC1050HS8
1054	LT1054CS8
1054A	LT1054ACS8
1054I	LT1054IS8
1054L	LT1054LCS8
1055	LT1055S8
1056	LT1056S8
1057	LT1057S8
1057I	LT1057IS8
1067	LTC1067CGN
106750	LTC1067-50CGN
10675I	LTC1067-50IGN
1067I	LTC1067IGN
10691	LTC1069-1CS8
10691I	LTC1069-1IS8
10696	LTC1069-6CS8
10696I	LTC1069-6IS8
10697	LTC1069-7CS8
10697I	LTC1069-7IS8
1072	LT1072CS8
1073	LT1073CS8
10731	LT1073CS8-12
10735	LT1073CS8-5
1077	LT1077S8
1077I	LT1077IS8
1078	LT1078S8
1078I	LT1078IS8
10905	LT1109CS8-5
10912	LT1109CS8-12
1096	LTC1096CS8
1096A	LTC1096ACS8
1096AI	LTC1096AIS8
1096I	LTC1096IS8
1096L	LTC1096LCS8
1096LI	LTC1096LIS8
1097	LT1097S8
1098	LTC1098CS8
1098A	LTC1098ACS8
1098AI	LTC1098AIS8
1098I	LTC1098IS8
1098L	LTC1098LCS8
1098LI	LTC1098LIS8
11012	LT1110CS8-12
1107	LT1107CS8
110712	LT1107CS8-12
11075	LT1107CS8-5
1107I	LT1107IS8
1108	LT1108CS8
11081	LT1108CS8-12
11085	LT1108CS8-5
1109	LT1109CS8
1109A	LT1109ACS8
1109A1	LT1109ACS8-12
1109A5	LT1109ACS8-5
1110	LT1110CS8
11105	LT1110CS8-5
1111	LT1111CS8
11111	LT1111CS8-12
11115	LT1111CS8-5
1111I	LT1111IS8
1112	LT1112CS8
1112	LT1112S8
1112I	LT1112IS8
1112MP	LT1112MPS8
1113	LT1113CS8
1116	LT1116CS8
1117	LT1117CST
11172	LT1117CST-2.85
11173	LT1117CST-3.3
11175	LT1117CST-5
1117I	LT1117IST
1117I2	LT1117IST-2.85
1117I3	LT1117IST-3.3
1117I5	LT1117IST-5
1118	LT1118CS8
111825	LT1118CS8-2.5
111825	LT1118CST-2.5
111828	LT1118CS8-2.85
111828	LT1118CST-2.85
11185	LT1118CS8-5
11185	LT1118CST-5
1120	LT1120CS8
1120A	LT1120ACS8
1120AI	LT1120AIS8
1120I	LT1120IS8
1121	LT1121CS8
11213	LT1121CS8-3.3
11213	LT1121CST-3.3
11215	LT1121CS8-5
11215	LT1121CST-5
1121A	LT1121ACS8
1121A3	LT1121ACS8-3.3
1121A5	LT1121ACS8-5
1121HV	LT1121HVCS8
1121I	LT1121IS8
1121I5	LT1121IST-5
1122C	LT1122CS8
1122D	LT1122DS8
1123	LT1123CST
11232	LT1123CS8-2.85
1124	LT1124CS8
1124AI	LT1124AIS8
1124I	LT1124IS8
1126	LT1126CS8
1128	LT1128CS8
1129	LT1129CS8
11293	LT1129CS8-3.3
11293	LT1129CST-3.3
11295	LT1129CS8-5
11295	LT1129CST-5
1129I	LT1129IS8
1129I3	LT1129IS8-3.3
1129I5	LT1129IS8-5
1144	LTC1144CS8
1144I	LTC1144IS8
11473	LTC1147CS8-3.3
11475	LTC1147CS8-5
1147H3	LTC1147HVCS8-3.3
1147I3	LTC1147IS8-3.3
1147I5	LTC1147IS8-5
1147L	LTC1147LCS8
1147L3	LTC1147LCS8-3.3
1147LI	LTC1147LIS8
1150	LTC1150CS8
1152	LTC1152CS8
1152I	LTC1152IS8
1153	LTC1153CS8
1153I	LTC1153IS8
1154	LTC1154CS8
1154H	LTC1154HS8
1155	LTC1155CS8
1155I	LTC1155IS8
1157	LTC1157CS8
1163	LTC1163CS8
1165	LTC1165CS8
1166	LTC1166CS8
1167	LTC1167CS8
1167A	LTC1167ACS8
1167AI	LTC1167AIS8
1167I	LTC1167IS8
1168	LTC1168CS8
1168A	LTC1168ACS8
1168AI	LTC1168AIS8
1168I	LTC1168IS8
1169	LTC1169CS8
1172	LTC1172CS8
1172HI	LTC1172HVIS8
1172I	LTC1172IS8
1173	LT1173CS8
117312	LT1173CS8-12
11735	LT1173CS8-5
1174	LTC1174CS8
117433	LTC1174CS8-3.3
117450	LTC1174CS8-5
1174H	LTC1174HVCS8
1174H3	LTC1174HVCS8-3.3
1174H5	LTC1174HVCS8-5
1174HI	LTC1174HVIS8
1174I	LTC1174IS8
1175	LT1175CS8
11755	LT1175CS8-5
11755	LT1175CST-5
1175I	LT1175IS8
1175I5	LT1175IS8-5
1175I5	LT1175IST-5
1178	LT1178S8
1187	LT1187CS8
1189	LT1189CS8
1190	LT1190CS8
1191	LT1191CS8
1192	LT1192CS8
1193	LT1193CS8
1193I	LT1193IS8
1194	LT1194CS8
1195	LT1195CS8
11961A	LTC1196-1ACS8
11961B	LTC1196-1BCS8
11962A	LTC1196-2ACS8
11962B	LTC1196-2BCS8
1197	LTC1197CS8
1197I	LTC1197IS8
1197L	LTC1197LCS8
1197LI	LTC1197LIS8
11981A	LTC1198-1ACS8
11981B	LTC1198-1BCS8
11982A	LTC1198-2ACS8
11982B	LTC1198-2BCS8
1199	LTC1199CS8
1199I	LTC1199IS8
1199L	LTC1199LCS8
1199LI	LTC1199LIS8
1203	LT1203CS8
1206	LT1206CS8
1208	LT1208CS8
1211	LT1211CS8
1211A	LT1211ACS8
1211AI	LT1211AIS8
1211I	LT1211IS8
1213	LT1213CS8
1215	LT1215CS8
1217	LT1217CS8
1218	LT1218CS8
1218L	LT1218LCS8
1219	LT1219CS8
1219L	LT1219LCS8
121AHV	LT1121AHVCS8
121AI	LT1121AIS8
121AI3	LT1121AIS8-3.3
121AI5	LT1121AIS8-5
121HVI	LT1121HVIS8
121I3	LT1121IS8-3.3
121I3	LT1121IST-3.3
121I5	LT1121IS8-5
1220	LT1220CS8
1221	LT1221CS8
1222	LT1222CS8
1222H	LT1222HS8
1222I	LT1222IS8
1223	LT1223CS8
1224	LT1224CS8
1225	LT1225CS8
1226	LT1226CS8
1227	LT1227CS8
1228	LT1228CS8
1228I	LT1228IS8
1229	LT1229CS8
1232	LTC1232CS8
1232I	LTC1232IS8
1241	LT1241CS8
1241I	LT1241IS8
1242	LT1242CS8
1242I	LT1242IS8
1243	LT1243CS8
1243I	LT1243IS8
1244	LT1244CS8
1244I	LT1244IS8
1245	LT1245CS8
1245I	LT1245IS8
1246	LT1246CS8
1247	LT1247CS8
1249	LT1249CS8
1249I	LT1249IS8
1250	LTC1250CS8
1252	LT1252CS8
1253	LT1253CS8
1255	LTC1255CS8
1255I	LTC1255IS8
1257	LTC1257CS8
1257I	LTC1257IS8
1258	LTC1258CS8
12582	LTC1258CS8-2.5
12583	LTC1258CS8-3
125841	LTC1258CS8-4.1
12585	LTC1258CS8-5
1261	LTC1261CS8
12614	LTC1261CS8-4
126145	LTC1261CS8-4.5
1261I	LTC1261IS8
1261L	LTC1261LCS8
1261L4	LTC1261LCS8-4
1262	LTC1262CS8
1262I	LTC1262IS8
1263	LTC1263CS8
1263I	LTC1263IS8
1285	LTC1285CS8
12853	LTC1285CS-3.0
1285I	LTC1285IS8
1286	LTC1286CS8
1286I	LTC1286IS8
1288	LTC1288CS8
1288I	LTC1288IS8
1298	LTC1298CS8
1298I	LTC1298IS8
129I3	LT1129IST-3.3
129I5	LT1129IST-5
129MP3	LT1129MPST-3.3
1300	LT1300CS8
1301	LT1301CS8
1301I	LT1301IS8
1302	LT1302CS8
13025	LT1302CS8-5
1303	LT1303CS8
13035	LT1303CS8-5
1303I	LT1303IS8
1303I5	LT1303IS8-5
1304	LT1304CS8
130433	LT1304CS8-3.3
13045	LT1304CS8-5
1305	LT1305CS8
1306	LT1306ES8
1307	LT1307CS8
1307B	LT1307BCS8
1307BI	LT1307BIS8
1307I	LT1307IS8
1308	LT1308CS8
1308A	LT1308ACS8
1308AI	LT1308AIS8
1308B	LT1308BCS8
1308BI	LT1308BIS8
1308I	LT1308IS8
1312	LT1312CS8
1316	LT1316CS8
1316I	LT1316IS8
1317	LT1317CS8
1317B	LT1317BCS8
1317BI	LT1317BIS8
1317I	LT1317IS8
1326	LTC1326CS8
132625	LTC1326CS8-2.5
1326I	LTC1326IS8
1328	LT1328CS8
1328I	LT1328IS8
13291	LTC1329CS8-10
13295	LTC1329CS8-50
1329A5	LTC1329ACS8-50
1329I5	LTC1329IS8-50
1351	LT1351CS8
1352	LT1352CS8
1352I	LT1352IS8
1354	LT1354CS8
1354I	LT1354IS8
1355	LT1355CS8
1355	LT1355HS8
1355MP	LT1355MPS8
1357	LT1357CS8
1358	LT1358CS8
1358I	LT1358IS8
1360	LT1360CS8
1361	LT1361CS8
1363	LT1363CS8
1364	LT1364CS8
1366	LT1366CS8
1366I	LT1366IS8
1368	LT1368CS8
1372	LT1372CGN
1372	LT1372CS8
1372H	LT1372HVCGN
1372H	LT1372HVCS8
1372HI	LT1372HVIGN
1372HI	LT1372HVIS8
1372I	LT1372IGN
1372I	LT1372IS8
1373	LT1373CS8
1373H	LT1373HVCS8
1373HI	LT1373HVIS8
1373I	LT1373IS8
1374	LT1374CS8
13745	LT1374CS8-5
1374CFE	LT1374CFE
1374HV	LT1374HVCS8
1374HVCFE	LT1374HVCFE
1374HVIFE	LT1374HVIFE
1374I	LT1374IS8
1374I5	LT1374IS8-5
1374IFE	LT1374IFE
1374SN	LT1374CS8-SYNC
1375	LT1375CS8
13755	LT1375CS8-5
1375HV	LT1375HVCS8
1375I	LT1375IS8
1375I5	LT1375IS8-5
1376	LT1376CS8
13765	LT1376CS8-5
1376HV	LT1376HVCS8
1376I	LT1376IS8
1376I5	LT1376IS8-5
1377	LT1377CS8
1377I	LT1377IS8
1380	LTC1380CGN
1380I	LTC1380IGN
1389B4	LT1389BCS8-4.096
1389B5	LT1389BCS8-5
1391	LTC1391CGN
1391I	LTC1391IGN
1392	LTC1392CS8
1392I	LTC1392IS8
1393	LTC1393CGN
1393I	LTC1393IGN
1394	LT1394CS8
1394I	LT1394IS8
1395	LT1395CS8
1395I	LT1395IS8
1396	LT1396CS8
1397	LT1397CDE
1397	LT1397CGN
1397	LT1397HDE
1397I	LT1397IGN
1399	LT1399CGN
1399I	LT1399IGN
1400	LTC1400CS8
1400I	LTC1400IS8
1401	LTC1401CS8
1401I	LTC1401IS8
1402	LTC1402CGN
1402I	LTC1402IGN
1404	LTC1404CS8
1404I	LTC1404IS8
1408	LTC1408CUH
1408	LTC1408IUH
140812	LTC1408CUH-12
140812	LTC1408IUH-12
1413	LT1413S8
1417	LTC1417CGN
1417A	LTC1417ACGN
1417AI	LTC1417AIGN
1417I	LTC1417IGN
1422	LTC1422CS8
1422I	LTC1422IS8
14245	LT1424CS8-5
14249	LT1424CS8-9
1424I5	LT1424IS8-5
1424I9	LT1424IS8-9
1426	LTC1426CS8
1426I	LTC1426IS8
142750	LTC1427CS8-50
142850	LTC1428CS8-50
14294	LTC1429CS8-4
1430	LTC1430CS8
1430A	LTC1430ACGN
1430A	LTC1430ACS8
1430AI	LTC1430AIGN
1430I	LTC1430IS8
1431	LT1431CS8
1431I	LT1431IS8

1432	LT1432CS8
14323	LT1432CS8-3.3
1433	LTC1433CGN
1433I	LTC1433IGN
1440	LTC1440CS8
1440I	LTC1440IS8
1441	LTC1441CS8
1441I	LTC1441IS8
1442	LTC1442CS8
1442I	LTC1442IS8
1443	LTC1443CDHD
1443	LTC1443IDHD
1444	LTC1444CDHD
1444	LTC1444IDHD
1445	LTC1445CDHD
1445	LTC1445IDHD
1446	LTC1446CS8
1446I	LTC1446IS8
1446L	LTC1446LCS8
1446LI	LTC1446LIS8
1448	LTC1448CS8
1448I	LTC1448IS8
1451	LTC1451CS8
1451I	LTC1451IS8
1452	LTC1452CS8
1452I	LTC1452IS8
1453	LTC1453CS8
1453I	LTC1453IS8
1456	LTC1456CS8
1456I	LTC1456IS8
1457	LT1457S8
1460A1	LT1460ACS8-10
1460A2	LT1460ACS8-2.5
1460A5	LTC1460ACS8-5
1460D1	LT1460DCS8-10
1460D2	LT1460DCS8-2.5
1460D5	LTC1460DCS8-5
1461A3	LT1461ACS8-3
1461A4	LT1461ACS8-4
1461A5	LT1461ACS8-5
1461B3	LT1461BCS8-3
1461B4	LT1461BCS8-4
1461B5	LT1461BCS8-5
1461C3	LT1461CCS8-3
1461C4	LT1461CCS8-4
1461C5	LT1461CCS8-5
1462	LT1462CS8
1462A	LT1462ACS8
1464	LT1464CS8
1464A	LT1464ACS8
1466L	LT1466LCS8
1468	LT1468CS8
14682	LT1468CS8-2
14682	LT1468IS8-2
14684	LT1468CS8-4
14684	LT1468IS8-4
1468I	LT1468IS8
1469	LT1469ACDF
1469	LT1469AIDF
1469	LT1469CDF
1469	LT1469CS8
1469	LT1469IDF
14692	LT1469ACDF-2
14692	LT1469AIDF-2
14692	LT1469CDF-2
14692	LT1469CS8-2
14692	LT1469IDF-2
14692	LT1469IS8-2
14694	LT1469CDF-4
14694	LT1469CS8-4
14694	LT1469IDF-4
14694	LT1469IS8-4
1469I	LT1469IS8
1470	LTC1470CS8
1470B	LTC1470BCS8
1470BE	LTC1470BES8
1470E	LTC1470ES8
1473	LTC1473CGN
1473I	LTC1473IGN
1473L	LTC1473LCGN
1473LI	LTC1473LIGN
1474	LTC1474CS8
147433	LTC1474CS8-3.3
14745	LTC1474CS8-5
1474I	LTC1474IS8
1474I5	LTC1474IS8-5
1475	LTC1475CS8
147533	LTC1475CS8-3.3
14755	LTC1475CS8-5
1475I	LTC1475IS8
1477	LTC1477CS8
1480	LTC1480CS8
1480I	LTC1480IS8
1481	LTC1481CS8
1481I	LTC1481IS8
1482	LTC1482CS8
1482I	LTC1482IS8
1483	LTC1483CS8
1483I	LTC1483IS8
1484	LTC1484CS8
1484I	LTC1484IS8
1485	LTC1485CS8
1485I	LTC1485IS8
1487	LTC1487CS8
1487I	LTC1487IS8
1490	LT1490CS8
1490A	LT1490ACS8
1490AH	LT1490AHS8
1490AI	LT1490AIS8
1490I	LT1490IS8
1491A	LT1491ACDHC
1491A	LT1491AIDHC
1492	LT1492CS8
1494	LT1494CS8
1494H	LT1494HS8
1494I	LT1494IS8
1495	LT1495CS8
1495H	LT1495HS8
1495I	LT1495IS8
1497	LT1497CS8
1498	LT1498CS8
1498I	LT1498IS8
1501	LT1501CS8
150133	LT1501CS8-3.3
15015	LT1501CS8-5
1501I	LT1501IS8
1501I3	LT1501IS8-3.3
1501I5	LT1501IS8-5
150233	LTC1502CS8-3.3
150318	LTC1503CS8-1.8
15032	LTC1503CS8-2
1503I2	LTC1503IS8-2
1504	LTC1504CS8
150433	LTC1504CS8-3.3
1504A	LTC1504ACS8
1504AI	LTC1504AIS8
1504I	LTC1504IS8
1504I3	LTC1504IS8-3.3
1506	LT1506CS8
150633	LT1506CS8-3.3
1506I	LT1506IS8
1507	LT1507CS8
15073	LT1507CS8-3.3
1507I	LT1507IS8
1507I3	LT1507IS8-3.3
1510	LT1510CGN
1510	LT1510CS8
15105	LT1510-5CGN
15105I	LT1510-5IGN
1510I	LT1510IGN
1510I	LT1510IS8
1512	LT1512CGN
1512	LT1512CS8
1512I	LT1512IGN
1512I	LT1512IS8
15143	LTC1514CS8-3
151433	LTC1514CS8-3.3
15145	LTC1514CS8-5
1514I3	LTC1514IS8-3
1514I5	LTC1514IS8-5
1515	LTC1515CS8
151535	LTC1515CS8-3/5
1515I	LTC1515IS8
1516	LTC1516CS8
1516I	LTC1516IS8
1521	LT1521CS8
15213	LT1521CS8-3
15213	LT1521CST-3
152133	LT1521CS8-3.3
152133	LT1521CST-3.3
15215	LT1521CS8-5
15215	LT1521CST-5
1521I	LT1521IS8
1521I3	LT1521IS8-3
1521I3	LT1521IST-3
1521I33	LT1521IS8-3.3
1521I33	LT1521IST-3.3
1521I5	LT1521IS8-5
1521I5	LT1521IST-5
1522	LTC1522CS8
1522I	LTC1522IS8
1530	LTC1530CS8
153019	LTC1530CS8-1.9
153025	LTC1530CS8-2.5
153028	LTC1530CS8-2.8
153033	LTC1530CS8-3.3
1530I	LTC1530IS8
1536	LTC1536CS8
1536I	LTC1536IS8
1540	LTC1540CS8
1540I	LTC1540IS8
1541	LTC1541CS8
1541I	LTC1541IS8
1542	LTC1542CS8
1542I	LTC1542IS8
1550	LTC1550CGN
155041	LTC1550CS8-4.1
1550I	LTC1550IGN
1550L	LTC1550LCGN
1550L	LTC1550LCS8
1550L2	LTC1550LCS8-2
1550LI	LTC1550LIGN
155141	LTC1551CS8-4.1
1551L	LTC1551LCS8
1551L2	LTC1551LCS8-2
1555	LTC1555CGN
1555I	LTC1555IGN
1555L	LTC1555LEGN
15601	LTC1560-1CS8
15601I	LTC1560-1IS8
15632	LTC1563-2CGN
15632I	LTC1563-2IGN
15633	LTC1563-3CGN
15633I	LTC1563-3IGN
156531	LTC1565-31CS8
156573	LTC1565-73CS8
15661	LTC1566-1CS8
15661I	LTC1566-1IS8
1568	LT1568CGN
1568I	LT1568IGN
15696	LTC1569CS8-6
15697	LTC1569CS8-7
1569I6	LTC1569IS8-6
1569I7	LTC1569IS8-7
15715	LT1571EGN-5
1573	LT1573CS8
157325	LT1573CS8-2.5
157328	LT1573CS8-2.8
157333	LT1573CS8-3.3
1573I	LT1573IS8
1575	LT1575CS8
157515	LT1575CS8-1.5
157528	LT1575CS8-2.8
157533	LT1575CS8-3.3
157535	LT1575CS8-3.5
15755	LT1575CS8-5
1576	LT1576CS8
15765	LT1576CS8-5
1576I	LT1576IS8
1576I5	LT1576IS8-5
1576SN	LT1576CS8-SYNC
1578	LT1578CS8
157825	LT1578CS8-2.5
1578I	LT1578IS8
1579	LT1579CGN
1579	LT1579CS8
15793	LT1579CGN-3
15793	LT1579CS8-3
157933	LT1579CGN-3.3
157933	LT1579CS8-3.3
15795	LT1579CGN-5
15795	LT1579CS8-5
1579I	LT1579IGN
1579I3	LT1579IGN-3
1579I5	LT1579IGN-5
1595A	LTC1595ACS8
1595AI	LTC1595AIS8
1595B	LTC1595BCS8
1595BI	LTC1595BIS8
1595C	LTC1595CCS8
1595CI	LTC1595CIS8
15I335	LTC1515ISI8-3.3/5
1610	LT1610CS8
1610I	LT1610IS8
1612	LT1612ES8
1614	LT1614CS8
1614I	LT1614IS8
1618	LT1618ES8
1619	LT1619ES8
1619I	LT1619IS8
1620	LT1620CGN
1620	LT1620CS8
1620I	LT1620IGN
1620I	LT1620IS8
1621	LT1621CGN
1621I	LT1621IGN
1622	LTC1622CS8
1622I	LTC1622IS8
1623	LTC1623CS8
1623I	LTC1623IS8
1624	LTC1624CS8
1624I	LTC1624IS8
1625	LTC1625CGN
1625I	LTC1625IGN
1627	LTC1627CS8
1627I	LTC1627IS8
1628	LTC1628CUH
1628I	LTC1628IUH
1630	LT1630CS8
1630I	LT1630IS8
1632	LT1632CS8
1632I	LT1632IS8
1634A1	LT1634ACS8-1.25
1634A2	LT1634ACS8-2.5
1634A4	LT1634ACS8-4.096
1634A5	LT1634ACS8-5
1634B1	LT1634BCS8-1.25
1634B2	LT1634BCS8-2.5
1634B4	LT1634BCS8-4.096
1634B5	LT1634BCS8-5
1635	LT1635CS8
1635I	LT1635IS8
1636	LT1636CS8
1636H	LT1636HS8
1636I	LT1636IS8
1637	LT1637CS8
1637H	LT1637HS8
1637I	LT1637IS8
1637MP	LT1637MPS8
1638	LT1638CS8
1638H	LT1638HS8
1638I	LT1638IS8
16401	LT1640-1CS8
16402	LT1640-2CS8
1640AH	LT1640AHCS8
1640AL	LT1640ALCS8
1640H	LT1640HCS8
1640HI	LT1640HIS8
1640HV	LT1640HVCS8
1640L	LT1640LCS8
1640LI	LT1640LIS8
1640LV	LT1640LVCS8
1641	LT1641CS8
16411	LT1641-1CS8
16411I	LT1641-1IS8
16412	LT1641-2CS8
16412I	LT1641-2IS8
1641I	LT1641IS8
1642	LTC1642CGN
1642A	LTC1642ACGN
1642AI	LTC1642AIGN
1642I	LTC1642IGN
1643AH	LTC1643AHCGN
1643AL	LTC1643ALCGN
1643H	LTC1643HCGN
1643HI	LTC1643HIGN
1643L	LTC1643LCGN
1643L1	LTC1643L-1CGN
1643LI	LTC1643LIGN
1645	LTC1645CS8
1645I	LTC1645IS8
1646	LTC1646CGN
1646I	LTC1646IGN
16471	LTC1647-1CS8
16471I	LTC1647-1IS8
16472	LTC1647-2CS8
16472I	LTC1647-2IS8
16473	LTC1647-3CGN
16473I	LTC1647-3IGN
1654	LTC1654CGN
1654I	LTC1654IGN
1655	LTC1655CS8
1655I	LTC1655IS8
1655L	LTC1655LCS8
1655LI	LTC1655LIS8
1658	LTC1658CS8
1658I	LTC1658IS8
1659	LTC1659CS8
1659I	LTC1659IS8
1660	LTC1660CGN
1660I	LTC1660IGN
1664	LTC1664CGN
1664I	LTC1664IGN
1665	LTC1665CGN
1665I	LTC1665IGN
1671	LT1671CS8
1671I	LT1671IS8
1672	LT1672CS8
1672I	LT1672IS8
1673	LT1673CS8
1673I	LT1673IS8
1675	LT1675CGN
16751	LT1675CS8-1
1675I1	LT1675IS8-1
1676	LT1676CS8
1676I	LT1676IS8
1677	LT1677CS8
1677I	LT1677IS8
1678	LT1678CS8
1678I	LT1678IS8
1682	LTC1682CS8
168233	LTC1682CS8-3.3
16825	LTC1682CS8-5
1682I	LTC1682IS8
1682I5	LTC1682IS8-5
1685	LTC1685CS8
1685I	LTC1685IS8
1686	LTC1686CS8
1686I	LTC1686IS8
1690	LTC1690CS8
1690I	LTC1690IS8
16931	LTC1693-1CS8
16931I	LTC1693-1IS8
16932	LTC1693-2CS8
16932I	LTC1693-2IS8
1698	LTC1698EGN
1698I	LTC1698IGN
169980	LTC1699EGN-80
169981	LTC1699EGN-81
169982	LTC1699EGN-82
1701	LTC1701CS8
1704	LTC1704EGN
1704B	LTC1704BEGN
170619	LTC1706CS8-19
1707	LTC1707CS8
1707I	LTC1707IS8
1710	LTC1710CS8
1710I	LTC1710IS8
1712	LT1712CGN
1712I	LT1712IGN
1714	LT1714CGN
1714I	LT1714IGN
1719	LT1719CS8
1719I	LT1719IS8
1720	LT1720CS8
1720I	LT1720IS8
1721	LT1721CGN
1721I	LT1721IGN
1722	LT1722CS8
1722I	LT1722IS8
1723	LT1723CS8
1723I	LT1723IS8
1725	LT1725CGN
1725I	LT1725IGN
172625	LTC1726ES8-2.5
17265	LTC1726ES8-5
1726I5	LTC1726IS8-5
172725	LTC1727ES8-2.5
17275	LTC1727ES8-5
1727I5	LTC1727IS8-5
172941	LTC1729CS8-4.1
172942	LTC1729CS8-4.2
172982	LTC1729CS8-8.2
172984	LTC1729CS8-8.4
17304	LTC1730EGN-4
173041	LTC1730ES8-4.1
173042	LTC1730ES8-4.2
173082	LTC1730ES8-8.2
173084	LTC1730ES8-8.4
173141	LTC1731ES8-4.1
173142	LTC1731ES8-4.2
173184	LTC1731ES8-8.4
1733	LTC1733CS8
1733I	LTC1733IS8
1735	LTC1735CGN
17351	LTC1735CGN-1
1735E	LTC1735EGN
1735I	LTC1735IGN
1735I1	LTC1735IGN-1
1737	LT1737CGN
1737I	LT1737IGN
1739	LT1739CUE
1739I	LT1739IUE
1756	LTC1756EGN
1756I	LTC1756IGN
1763	LT1763CDE
1763	LT1763CS8
1763	LT1763IS8
176315	LT1763CS8-1.5
176315	LT1763IS8-1.5
176318	LT1763CS8-1.8
176318	LT1763IS8-1.8
176325	LT1763CS8-2.5
176325	LT1763IS8-2.5
17633	LT1763CDE-3
17633	LT1763CS8-3
17633	LT1763IS8-3
176333	LT1763CS8-3.3
176333	LT1763IS8-3.3
17635	LT1763CDE-5
17635	LT1763CS8-5
17635	LT1763IS8-5
1763MP	LT1763MPS8
1764AEFE	LT1764AEFE
1764AEFE15	LT1764AEFE-1.5
1764AEFE18	LT1764AEFE-1.8
1764AEFE25	LT1764AEFE-2.5
1764AEFE33	LT1764AEFE-3.3
1764EFE	LT1764EFE
1764EFE15	LT1764EFE-1.5
1764EFE18	LT1764EFE-1.8
1764EFE25	LT1764EFE-2.5
1764EFE33	LT1764EFE-3.3
1765	LT1765ES8
1765EFE	LT1765EFE
1765EFE18	LT1765EFE-1.8
1765EFE25	LT1765EFE-2.5
1765EFE33	LT1765EFE-3.3
1765EFE-5	LT1765EFE-5
1766	LT1766CS8
1766	LT1766EGN
17665	LT1766EGN-5
1766EFE	LT1766EFE
1766EFE-5	LT1766EFE-5
1766HFE	LT1766HFE
1766HFE-5	LT1766HFE-5
1766I	LT1766IGN
1766I	LT1766IS8
1766I5	LT1766IGN-5
1766IFE	LT1766IFE
1766IFE-5	LT1766IFE-5
1766SN	LT1766CS8-SYNC
1767	LT1767ES8
1768	LT1768CGN
1768I	LT1768IGN
1770	LTC1770CS8
1770I	LTC1770IS8
1771	LTC1771ES8
1771I	LTC1771IS8
1772	LTC1772CS8
1775	LTC1775CGN
1775I	LTC1775IGN
1776	LT1776CS8
1776I	LT1776IS8
1777	LT1777CGN
1778	LTC1778EGN
17781	LTC1778EGN-1
1778A	LTC1778AEGN

TOP MARKINGS (TOP MARK TO PART NUMBER)

1778A	LTC1778AIGN
1778H	LTC1778HGN
1778I	LTC1778IGN
1779	LTC1779ES8
1785	LT1785CS8
1785A	LT1785ACS8
1785AH	LT1785AHS8
1785AI	LT1785AIS8
1785H	LT1785HS8
1785I	LT1785IS8
1787	LT1787CS8
1787H	LT1787HS8
1787HV	LT1787HVCS8
1787I	LT1787IS8
17891	LT1789CGN-1
17891	LT1789CS8-1
178910	LT1789CS8-10
1789H1	LT1789HS8-1
1789I1	LT1789IGN-1
1789I1	LT1789IS8-1
1792	LT1792CS8
1792A	LT1792ACS8
1792AI	LT1792AIS8
1792I	LT1792IS8
1793	LT1793CS8
1793A	LT1793ACS8
1793AI	LT1793AIS8
1793I	LT1793IS8
1794	LT1794CS8
1794A	LT1794ACS8
1796	LT1796CS8
1796I	LT1796IS8
1798	LTC1798CS8
179825	LTC1798CS8-2.5
17983	LTC1798CS8-3
179841	LTC1798CS8-4.1
17985	LTC1798CS8-5
1798I	LTC1798IS8
1798I3	LTC1798IS8-3
1798I5	LTC1798IS8-5
1800	LT1800CS8
1800I	LT1800IS8
1801	LT1801CS8
1801I	LT1801IS8
1803	LT1803CS8
1803I	LT1803IS8
1804	LT1804CS8
1804I	LT1804IS8
1806	LT1806CS8
1806I	LT1806IS8
1807	LT1807CS8
1807H	LT1807HS8
1807I	LT1807IS8
1809	LT1809CS8
1809I	LT1809IS8
1810	LT1810CS8
1810I	LT1810IS8
1812	LT1812CS8
1812I	LT1812IS8
1813	LT1813CS8
1813D	LT1813DS8
1813HV	LT1813HVCS8
1813I	LT1813IS8
1814	LT1814CGN
1814I	LT1814IGN
1815	LT1815CS8
1815I	LT1815IS8
1816	LT1816CS8
1816I	LT1816IS8
1817	LT1817CGN
1817I	LT1817IGN
1818	LT1818CS8
1818I	LT1818IS8
1819	LT1819CS8
1819I	LT1819IS8
1840	LTC1840CGN
1840I	LTC1840IGN
1841	LTC1841CS8
1841I	LTC1841IS8
1842	LTC1842CS8
1842I	LTC1842IS8
1843	LTC1843CS8
1843I	LTC1843IS8
1860	LTC1860CS8
1860I	LTC1860IS8
1860L	LTC1860LCS8
1860LI	LTC1860LIS8
1861	LTC1861CS8
1861I	LTC1861IS8
1861L	LTC1861LCS8
1861LI	LTC1861LIS8
1863	LTC1863CGN
1863	LTC1863IGN
1863L	LTC1863LCGN
1863L	LTC1863LIGN
1864	LTC1864CS8
1864A	LTC1864ACS8
1864AI	LTC1864AIS8
1864I	LTC1864IS8
1864L	LTC1864LCS8
1864LA	LTC1864LACS8
1864LI	LTC1864LIS8
1865	LTC1865CS8
1865A	LTC1865ACS8
1865AI	LTC1865AIS8
1865I	LTC1865IS8
1865L	LTC1865LCS8
1865LA	LTC1865LACS8
1865LI	LTC1865LIS8
1867	LTC1867ACGN
1867	LTC1867AIGN
1867	LTC1867CGN
1867	LTC1867IGN
1867L	LTC1867LACGN
1867L	LTC1867LAIGN
1867L	LTC1867LCGN
1867L	LTC1867LIGN
1874	LTC1874EGN
1875	LTC1875EGN
1879	LTC1879EGN
1881	LT1881CS8
1881A	LT1881ACS8
1881AI	LT1881AIS8
1881I	LT1881IS8
1884	LT1884CS8
1884A	LT1884ACS8
1884AI	LT1884AIS8
1884I	LT1884IS8
1886	LT1886CS8
1886I	LT1886IS8
1905	LT1019CS8-5
1910	LT1019CS8-10
1910E	LT1910ES8
191118	LTC1911ES8-1.8
1920	LT1920CS8
1920I	LT1920IS8
1921	LTC1921CS8
1921I	LTC1921IS8
1923	LTC1923EUH
1925	LT1019CS8-2.5
1928	LTC1928CS8
1932	LT1932ES8
1933	LT1933CS8
1940EFE	LT1940EFE
1940LEFE	LT1940LEFE
1942	LT1942EUF
1945	LT1019CS8-4.5
1946	LT1946EUF
1946A	LT1946AEUF
1949	LT1949ES8
1949I	LT1949IS8
1950	LT1950EGN
1950I	LT1950IGN
1952	LT1952EGN
19521	LT1952EGN-1
1952I	LT1952IGN
1952I1	LT1952IGN-1
1955	LTC1955EUH
1955	LTC1955IUH
1956	LT1956EGN
19565	LT1956EGN-5
1956EFE	LT1956EFE
1956EFE-5	LT1956EFE-5
1956I	LT1956IGN
1956I5	LT1956IGN-5
1956IFE	LT1956IFE
1956IFE-5	LT1956IFE-5
1959	LT1959CS8
1959I	LT1959IS8
1960	LTC1960CUHF
1961	LT1961ES8
1963	LT1963ES8
1963	LT1963EST
196315	LT1963ES8-1.5
196315	LT1963EST-1.5
196318	LT1963ES8-1.8
196318	LT1963EST-1.8
196325	LT1963ES8-2.5
196325	LT1963EST-2.5
196333	LT1963ES8-3.3
196333	LT1963EST-3.3
1963A	LT1963AES8
1963A	LT1963AIS8
1963AEFE	LT1963AEFE
1963AEFE15	LT1963AEFE-1.5
1963AEFE18	LT1963AEFE-1.8
1963AEFE25	LT1963AEFE-2.5
1963AEFE33	LT1963AEFE-3.3
1963AIFE	LT1963AIFE
1963EFE	LT1963EFE
1963EFE15	LT1963EFE-1.5
1963EFE18	LT1963EFE-1.8
1963EFE25	LT1963EFE-2.5
1963EFE33	LT1963EFE-3.3
1963I	LT1963IS8
1976BEFE	LT1976BEFE
1976BIFE	LT1976BIFE
1976EFE	LT1976EFE
1976HFE	LT1976HFE
1976IFE	LT1976IFE
1977BEFE	LT1977BEFE
1977BIFE	LT1977BIFE
1977EFE	LT1977EFE
1977IFE	LT1977IFE
1990	LT1990CS8
199010	LT1990CS8-10
1990A	LT1990ACS8
1990AH	LT1990AHS8
1990AI	LT1990AIS8
1990H	LT1990HS8
1990I	LT1990IS8
1994	LT1994CS8
1994I	LT1994IS8
19AI25	LT1019AIS8-2.5
19I05	LT1019IS8-5
19I25	LT1019IS8-2.5
200I10	LT6200IS8-10
2050	LTC2050CS8
2050H	LTC2050HS8
2050HV	LTC2050HVCS8
2050I	LTC2050IS8
2051	LTC2051CS8
2051H	LTC2051HS8
2051HV	LTC2051HVCS8
2051I	LTC2051IS8
2052	LTC2052CGN
2052H	LTC2052HGN
2052HV	LTC2052HVCGN
2052I	LTC2052IGN
2078	LT2078CS8
2078A	LT2078ACS8
2078AI	LT2078AIS8
2078I	LT2078IS8
2105	LT1021DCS8-5
2107	LT1021DCS8-7
2110	LT1021DCS8-10
2178	LT2178CS8
2178A	LT2178ACS8
2178AI	LT2178AIS8
2178I	LT2178IS8
21AHVI	LT1121AHVIS8
2201T	LTC3220EPF-1
2201T	LTC3220IPF-1
2225	LTC2225CUH
2225	LTC2225IUH
2226	LTC2226CUH
2226	LTC2226IUH
2226H	LTC2226HLU
2227	LTC2227CUH
2227	LTC2227IUH
2228	LTC2228CUH
2228	LTC2228IUH
2229	LTC2229CUH
2229	LTC2229IUH
222911	LTC2229CUH-11
2236	LTC2236CUH
2236	LTC2236IUH
2237	LTC2237CUH
2237	LTC2237IUH
2238	LTC2238CUH
2238	LTC2238IUH
2239	LTC2239CUH
2239	LTC2239IUH
2245	LTC2245CUH
2245	LTC2245IUH
2246	LTC2246CUH
2246	LTC2246IUH
2246H	LTC2246HLU
2247	LTC2247CUH
2247	LTC2247IUH
2248	LTC2248CUH
2248	LTC2248IUH
2249	LTC2249CUH
2249	LTC2249IUH
2250	LTC2250CUH
2250	LTC2250IUH
2251	LTC2251CUH
2251	LTC2251IUH
2252	LTC2252CUH
2252	LTC2252IUH
2253	LTC2253CUH
2253	LTC2253IUH
2254	LTC2254CUH
2254	LTC2254IUH
2255	LTC2255CUH
2255	LTC2255IUH
2301	LTC2301CDE
2301	LTC2301CMS
2301	LTC2301HMS
2301	LTC2301IDE
2301	LTC2301IMS
2305	LTC2305CDE
2305	LTC2305CMS
2305	LTC2305HMS
2305	LTC2305IDE
2305	LTC2305IMS
2306	LTC2306CUF
2306	LTC2306IUF
2308	LTC2308CUF
2308	LTC2308IUF
2309	LTC2309CUF
2309	LTC2309IUF
235112	LTC2351CUH-12
235112	LTC2351HUH-12
235112	LTC2351IUH-12
235114	LTC2351CUH-14
235114	LTC2351HUH-14
235114	LTC2351IUH-14
236AC1	LT1236ACS8-10
236AC5	LT1236ACS8-5
236AI1	LT1236AIS8-10
236AI5	LT1236AIS8-5
236BC1	LT1236BCS8-10
236BC5	LT1236BCS8-5
236BI1	LT1236BIS8-10
236BI5	LT1236BIS8-5
236CC1	LT1236CCS8-10
236CC5	LT1236CCS8-5
236CI1	LT1236CIS8-10
236CI5	LT1236CIS8-5
2400	LTC2400CS8
2400I	LTC2400IS8
240HVH	LTC6240HVHS8
240HVI	LTC6240HVIS8
2410	LTC2410CGN
2410I	LTC2410IGN
2412	LTC2412CGN
2412I	LTC2412IGN
2413	LTC2413CGN
2413I	LTC2413IGN
2415	LTC2415CGN
24151	LTC2415-1CGN
24151I	LTC2415-1IGN
2415I	LTC2415IGN
241HVH	LTC6241HVHS8
241HVI	LTC6241HVIS8
2420	LTC2420CS8
2420I	LTC2420IS8
242HVH	LTC6242HVHGN
242HVI	LTC6242HVIGN
2430	LTC2430CGN
2430I	LTC2430IGN
2435	LTC2435CGN
24351	LTC2435-1CGN
24351I	LTC2435-1IGN
2435I	LTC2435IGN
24361	LTC2436-1CGN
24361I	LTC2436-1IGN
2440	LTC2440CGN
2440I	LTC2440IGN
2444	LTC2444CUHF
2444	LTC2444IUHF
2445	LTC2445CUHF
2445	LTC2445IUHF
2446	LTC2446CUHF
2446	LTC2446IUHF
2447	LTC2447CUHF
2447	LTC2447IUHF
2448	LTC2448CUHF
2448	LTC2448IUHF
2449	LTC2449CUHF
2449	LTC2449IUHF
2460	LTC2460CMS
2460	LTC2460IMS
2461	LTC2461CMS
2461	LTC2461IMS
2462	LTC2462CMS
2462	LTC2462IMS
2463	LTC2463CMS
2463	LTC2463IMS
2486	LTC2486CDE
2486	LTC2486IDE
2487	LTC2487CDE
2487	LTC2487IDE
2488	LTC2488CDE
2488	LTC2488IDE
2489	LTC2489CDE
2489	LTC2489IDE
2490	LTC2490CS8
2490I	LTC2490IS8
2492	LTC2492CDE
2492	LTC2492IDE
2493	LTC2493CDE
2493	LTC2493IDE
2494	LTC2494CUHF
2494	LTC2494IUHF
2495	LTC2495CUHF
2495	LTC2495IUHF
2496	LTC2496CUHF
2496	LTC2496IUHF
2497	LTC2497CUHF
2497	LTC2497IUHF
2498	LTC2498CUHF
2498	LTC2498IUHF
2499	LTC2499CUHF
2499	LTC2499IUHF
253AJ	LTC4253ACUF-ADJ
253AJ	LTC4253AIUF-ADJ
2600	LTC2600CGN
2600	LTC2600CUFD
2600	LTC2600IUFD
2600I	LTC2600IGN
2604	LTC2604CGN
26041	LTC2604CGN-1
2604I	LTC2604IGN
2604I1	LTC2604IGN-1
2605	LTC2605CGN
26051	LTC2605CGN-1
2605I	LTC2605IGN
2605I1	LTC2605IGN-1
2607	LTC2607CDE
2607	LTC2607IDE
26071	LTC2607CDE-1
26071	LTC2607IDE-1
2609	LTC2609CGN
26091	LTC2609CGN-1
2609I	LTC2609IGN
2609I1	LTC2609IGN-1
2610	LTC2610CGN
2610	LTC2610CUFD
2610	LTC2610IUFD
2610I	LTC2610IGN
2614	LTC2614CGN
26141	LTC2614CGN-1
2614I	LTC2614IGN
2614I1	LTC2614IGN-1
2615	LTC2615CGN
26151	LTC2615CGN-1
2615I	LTC2615IGN
2615I1	LTC2615IGN-1
2617	LTC2617CDE
2617	LTC2617IDE
26171	LTC2617CDE-1
26171	LTC2617IDE-1
2619	LTC2619CGN
26191	LTC2619CGN-1
2619I	LTC2619IGN
2619I1	LTC2619IGN-1
261L45	LTC1261LCS8-4.5
2620	LTC2620CGN
2620	LTC2620CUFD
2620	LTC2620IUFD
2620I	LTC2620IGN
2624	LTC2624CGN
26241	LTC2624CGN-1
2624I	LTC2624IGN
2624I1	LTC2624IGN-1
2625	LTC2625CGN
26251	LTC2625CGN-1
2625I	LTC2625IGN
2625I1	LTC2625IGN-1
2627	LTC2627CDE
2627	LTC2627IDE
26271	LTC2627CDE-1
26271	LTC2627IDE-1
2629	LTC2629CGN
26291	LTC2629CGN-1
2629I	LTC2629IGN
2629I1	LTC2629IGN-1
264116	LTC2641CS8-16
264116	LTC2641IS8-16
275112	LTC2751CUHF-12
275112	LTC2751IUHF-12
275114	LTC2751CUHF-14
275114	LTC2751IUHF-14
275116	LTC2751ACUHF-16
275116	LTC2751AIUHF-16
275116	LTC2751BCUHF-16
275116	LTC2751BIUHF-16
275116	LTC2751CUHF-16
275116	LTC2751IUHF-16
275118	LTC2751ACUHF-18
275118	LTC2751AIUHF-18
275118	LTC2751BCUHF-18
275118	LTC2751BIUHF-18
2801	LTC2801CDE
2801	LTC2801IDE
2802	LTC2802CDE
2802	LTC2802IDE
2803	LTC2803CDHC
2803	LTC2803IDHC
28031	LTC2803CGN-1
2803I1	LTC2803IGN-1
2804	LTC2804CDHC
2804	LTC2804IDHC
28041	LTC2804CGN-1
2804I1	LTC2804IGN-1
2845	LTC2845CUHF
2845I	LTC2845IUHF
2847	LTC2847CUHF
2847I	LTC2847IUHF
2850	LTC2850CS8
2850H	LTC2850HS8
2850I	LTC2850IS8
2851	LTC2851CS8
2851H	LTC2851HS8
2851I	LTC2851IS8
2852	LM285S8-2.5
2855	LTC2855CDE
2855	LTC2855CGN
2855	LTC2855HDE
2855	LTC2855IDE
2855H	LTC2855HGN
2855I	LTC2855IGN
2861	LTC2861CDE
2861	LTC2861CGN
2861	LTC2861IDE
2861I	LTC2861IGN
29011	LTC2901-1CGN
29011I	LTC2901-1IGN
29012	LTC2901-2CGN
29012I	LTC2901-2IGN
29013	LTC2901-3CGN
29013I	LTC2901-3IGN
29014	LTC2901-4CGN
29014I	LTC2901-4IGN
29021	LTC2902-1CGN
29021I	LTC2902-1IGN

29022	LTC2902-2CGN
29022I	LTC2902-2IGN
2910	LTC2910CDHC
2910	LTC2910CGN
2910	LTC2910HDHC
2910	LTC2910IDHC
2910H	LTC2910HGN
2910I	LTC2910IGN
29141	LTC2914CDHC-1
29141	LTC2914CGN-1
29141	LTC2914HDHC-1
29141	LTC2914IDHC-1
29142	LTC2914CDHC-2
29142	LTC2914CGN-2
29142	LTC2914HDHC-2
29142	LTC2914IDHC-2
2914H1	LTC2914HGN-1
2914H2	LTC2914HGN-2
2914I1	LTC2914IGN-1
2914I2	LTC2914IGN-2
2921	LTC2921CGN
292125	LTC2921CGN-2.5
292133	LTC2921CGN-3.3
2921I	LTC2921IGN
29221	LTC2922-1CGN
29221I	LTC2922-1IGN
2923	LTC2923CDE
2923	LTC2923IDE
2924	LTC2924CGN
2924I	LTC2924IGN
2925	LTC2925CUF
2925	LTC2925IUF
2926	LTC2926CUF
2926	LTC2926CUFD
2926	LTC2926IUF
2926	LTC2926IUFD
2928	LTC2928CUHF
2928	LTC2928IUHF
2933	LTC2933CDHD
2933	LTC2933CGN
2933	LTC2933IDHD
2933I	LTC2933IGN
2952	LTC2952CUF
2952	LTC2952IUF
29532	LTC2953IMS-2
2970	LTC2970CUFD
2970	LTC2970IUFD
29701	LTC2970CUFD-1
29701	LTC2970IUFD-1
3011	LT3011EMSE
3011	LT3011HMSE
3011	LT3011IMSE
3012	LT3012EDE
3012B	LT3012BEDE
3012BEFE	LT3012BEFE
3012EFE	LT3012EFE
3012HFE	LT3012HFE
3012I	LT3012IDE
3012IFE	LT3012IFE
3013	LT3013EDE
3013B	LT3013BEDE
3013BEFE	LT3013BEFE
3013EFE	LT3013EFE
3013HFE	LT3013HFE
3013I	LT3013IDE
3013IFE	LT3013IFE
3013MPFE	LT3013MPFE
3021	LT3021EDH
3021	LT3021ES8
302112	LT3021EDH-1.2
302112	LT3021ES8-1.2
302115	LT3021EDH-1.5
302115	LT3021ES8-1.5
302118	LT3021EDH-1.8
302118	LT3021ES8-1.8
302118	LT3021IS8-1.8
3024	LT3024EDE
3024	LT3024IDE
3024EFE	LT3024EFE
3024IFE	LT3024IFE
3028	LT3028EDHC
3028EFE	LT3028EFE
3028I	LT3028IDHC
3028IFE	LT3028IFE
3035	LTC3035ES8
3080	LT3080EST
3080EFE	LT3080EFE
3101	LTC3101EUF
3150	LT3150CGN
3205	LTC3205EUF
3205X	LTC3205XEUF
3206	LTC3206EUF
3207	LTC3207EUF
32071	LTC3207EUF-1
3208	LTC3208EUH
32091	LTC3209EUF-1
32092	LTC3209EUF-2
3216	LTC3216EDE
3220	LTC3220EUF
32201	LTC3220EUF-1
3220T	LTC3220EPF
3220T	LTC3220IPF
3252	LTC3252EDE
326I25	LTC1326IS8-2.5
3401	LT1034CS8-1.2
3402	LT1034CS8-2.5
3412	LTC3412EUF
3412A	LTC3412AEUF
3412A	LTC3412AIUF
3412AEFE	LTC3412AEFE
3412AIFE	LTC3412AIFE
3412AMPFE	LTC3412AMPFE
3412EFE	LTC3412EFE
3412IFE	LTC3412IFE
3413EFE	LTC3413EFE
3413IFE	LTC3413IFE
3415	LTC3415EUHF
3417	LTC3417EDHC
3417A	LTC3417AEDHC
3417A1	LTC3417AEDHC-1
3417A1	LTC3417AIDHC-1
3417A2	LTC3417AEDHC-2
3417A2	LTC3417AIDHC-2
3417AL	LTC3417ALEDHC
3417AL	LTC3417ALIDHC
3417S	LTC3417SEDHC
3418	LTC3418EUHF
3421	LTC3421EUF
3425	LTC3425EUH
3430EFE	LTC3430EFE
3430EFE-1	LT3430EFE-1
3430IFE	LT3430IFE
3430IFE-1	LT3430IFE-1
3431EFE	LT3431EFE
3431IFE	LT3431IFE
3433	LT3433EGN
3433EFE	LT3433EFE
3433I	LT3433IGN
3433IFE	LT3433IFE
3434EFE	LT3434EFE
3434IFE	LT3434IFE
3435EFE	LT3435EFE
3435IFE	LT3435IFE
3436EFE	LT3436EFE
3437EFE	LT3437EFE
3437HFE	LT3437HFE
3437IFE	LT3437IFE
3439EFE	LT3439EFE
3441	LTC3441EDE
3442	LTC3442EDE
3443	LTC3443EDE
3445	LTC3445EUF
3446	LTC3446EDE
3446	LTC3446IDE
3452	LTC3452EUF
3453	LTC3453EUF
3455	LTC3455EUF
34551	LTC3455EUF-1
3456	LTC3456EUF
3458	LTC3458EDE
3458EFE	LTC3458EFE
3458L	LTC3458LEDE
3458LEFE	LTC3458LEFE
3459	LTC3459ES8
3466EFE	LTC3466EFE
3469	LT3469ES8
3473A	LT3473AEDE
3474EFE	LT3474EFE
3474EFE-1	LT3474EFE-1
3474IFE	LT3474IFE
3474IFE-1	LT3474IFE-1
3476	LT3476EUHF
3477	LT3477EUF
3477	LT3477IUF
3478FE	LT3478EFE
3478FE	LT3478IFE
3478FE-1	LT3478EFE-1
3478FE-1	LT3478IFE-1
3479	LT3479EDE
3479EFE	LT3479EFE
3486	LT3486EDHC
3486EFE	LT3486EFE
3486IFE	LT3486IFE
3490	LT3490ES8
3493ES	LT3493AES8
3496	LT3496EUFD
3496	LT3496IUFD
34I02	LT1034IS8-2.5
3500	LT3500EMSE
3500	LT3500HMSE
3500	LT3500IMSE
3504	LT3504EUF
3504	LT3504IUF
3506	LT3506EDHD
3506	LT3506IDHD
3506A	LT3506AEDHD
3506A	LT3506AIDHD
3506AEFE	LT3506AEFE
3506AIFE	LT3506AIFE
3506EFE	LT3506EFE
3506IFE	LT3506IFE
3506L	LT3506LEDHD
3506LEFE	LT3506LEFE
3507	LT3507EUHF
3507	LT3507HUHF
3507	LT3507IUHF
3508	LT3508EUF
3508	LT3508IUF
3508FE	LT3508EFE
3508FE	LT3508IFE
3508H	LT3508HUF
3508HFE	LT3508HFE
3509	LT3509EDE
3509	LT3509EMSE
3509	LT3509HDE
3509	LT3509HMSE
3509	LT3509IDE
3509	LT3509IMSE
3513	LT3513EUHF
3513	LT3513IUHF
3517	LT3517EUF
3517	LT3517IUF
3517FE	LT3517EFE
3517FE	LT3517IFE
3517HFE	LT3517HFE
3518	LT3518EUF
3518	LT3518IUF
3518FE	LT3518EFE
3518FE	LT3518IFE
3518HFE	LT3518HFE
3520	LTC3520EUF
3520	LTC3520IUF
3524	LTC3524EUF
352533	LTC3525ES8-3.3
3533	LTC3533EDE
3534	LTC3534EDE
3534	LTC3534EDHC
3534	LTC3534EGN
3534	LTC3534IDE
3534	LTC3534IDHC
3534	LTC3534IGN
3546	LTC3546EUFD
3546	LTC3546IUFD
3550	LTC3550EDHC
35501	LTC3550EDHC-1
3552	LTC3552EDHC
35521	LTC3552EDHC-1
3555	LTC3555EUFD
35551	LTC3555EUFD-1
35551	LTC3555IUFD-1
35553	LTC3555EUFD-3
35553	LTC3555IUFD-3
3555I	LTC3555IUFD
3556	LTC3556EUFD
3557	LTC3557EUF
35571	LTC3557EUF-1
3566	LTC3566EUF
3566	LTC3566IUF
35662	LTC3566EUF-2
3567	LTC3567EUF
3569FE	LTC3569EFE
3569FE	LTC3569IFE
3570	LT3570EUF
3570	LT3570IUF
3571	LT3571EMSE
3571	LT3571IMSE
3572	LT3572EUF
3572	LT3572IUF
3573	LT3573EMSE
3573	LT3573IMSE
3576	LTC3576EUFE
3576	LTC3576IUFE
35761	LTC3576EUFE-1
35761	LTC3576IUFE-1
3577	LTC3577EUFF
35773	LTC3577EUFF-3
3586	LTC3586EUFE
35861	LTC3586EUFE-1
3595	LT3595EUHH
3595A	LT3595AEUHH
3597	LT3597EUHG
3597	LT3597IUHG
3598	LT3598EUF
3598	LT3598IUF
3599	LT3599EUH
3599	LT3599IUH
3599H	LT3599HUH
3602	LTC3602EUF
3602	LTC3602IUF
36021	LTC3602EUF-1
36022	LTC3602EUF-2
3602EFE1	LTC3602EFE-1
3602EFE2	LTC3602EFE-2
3602FE	LTC3602EFE
3602FE	LTC3602IFE
3603	LTC3603EMSE
3603	LTC3603EUF
3603	LTC3603IMSE
3603	LTC3603IUF
36031	LTC3603EMSE-1
3603FE	LTC3603EFE
3603FE	LTC3603IFE
3605	LTC3605EUF
36051	LTC3605EUF-1
365142	LT3651EUHE-4.2
365142	LT3651IUHE-4.2
365182	LT3651EUHE-8.2
365182	LT3651IUHE-8.2
3681	LT3681EDE
3682	LT3682EDE
3682	LT3682IDE
3682H	LT3682HDE
3683	LT3683EDE
36HMI8	LTC2636CMS-HMI8
36HMI8	LTC2636HMS-HMI8
36HMI8	LTC2636IMS-HMI8
36HMX8	LTC2636CMS-HMX8
36HMX8	LTC2636HMS-HMX8
36HMX8	LTC2636IMS-HMX8
36HZ10	LTC2636CMS-HZ10
36HZ10	LTC2636HMS-HZ10
36HZ10	LTC2636IMS-HZ10
36HZ12	LTC2636CMS-HZ12
36HZ12	LTC2636HMS-HZ12
36HZ12	LTC2636IMS-HZ12
36HZ8	LTC2636CDE-HZ8
36HZ8	LTC2636HDE-HZ8
36HZ8	LTC2636IDE-HZ8
36LMI8	LTC2636CMS-LMI8
36LMI8	LTC2636HMS-LMI8
36LMI8	LTC2636IMS-LMI8
36LMX8	LTC2636CMS-LMX8
36LMX8	LTC2636HMS-LMX8
36LMX8	LTC2636IMS-LMX8
36LZ10	LTC2636CMS-LZ10
36LZ10	LTC2636HMS-LZ10
36LZ10	LTC2636IMS-LZ10
36LZ12	LTC2636CMS-LZ12
36LZ12	LTC2636HMS-LZ12
36LZ12	LTC2636IMS-LZ12
36LZ8	LTC2636CDE-LZ8
36LZ8	LTC2636HDE-LZ8
36LZ8	LTC2636IDE-LZ8
3701	LTC3701EGN
3703	LTC3703EGN
37035	LTC3703EGN-5
3703H	LTC3703HGN
3703I	LTC3703IGN
3703I5	LTC3703IGN-5
3705	LTC3705EGN
3705I	LTC3705IGN
3708	LTC3708EUH
3709	LTC3709EUH
3710EFE	LTC3710EFE
3717	LTC3717EGN
37171	LTC3717EUH-1
37211	LTC3721EGN-1
37211	LTC3721EUF-1
37231	LTC3723EGN-1
37232	LTC3723EGN-2
3724EFE	LT3724EFE
3724IFE	LT3724IFE
3724MPFE	LT3724MPFE
3726	LTC3726EGN
3726I	LTC3726IGN
37271	LTC3727EUH-1
3728	LTC3728EUH
3728	LTC3728IUH
3728L	LTC3728LCUH
3728L1	LTC3728LCUH-1
3728L1	LTC3728LIUH-1
3728LE	LTC3728LEUH
3728LI	LTC3728LIUH
3728LX	LTC3728LXCUH
3728ZE	LTC3728ZEUH
3729	LTC3729EUH
37296	LTC3729EUH-6
3729L6	LTC3729LEUH-6
3731	LTC3731CUH
3731I	LTC3731IUH
3732	LTC3732CUHF
37331	LTC3733CUHF-1
3734	LTC3734EUH
3735	LTC3735EUHF
3736	LTC3736EUF
37361	LTC3736EUF-1
37362	LTC3736EUF-2
3737	LTC3737EUF
3738	LTC3738CUHF
3740	LT3740EDHC
3742	LT3742EUF
37421	LT3742EUF-1
3745SN	LT1374CS8-5 SYNC
374HVI	LT1374HVIS8
374ISN	LT1374IS8-SYNC
3751	LT3751EUFD
3751	LT3751IUFD
3755	LT3755EMSE
3755	LT3755IMSE
37551	LT3755EMSE-1
37551	LT3755IMSE-1
3755A	LT3755AEMSE
3755A	LT3755AIMSE
3756	LT3756EMSE
3756	LT3756IMSE
37561	LT3756EMSE-1
37561	LT3756IMSE-1
3756A	LT3756AEMSE
3756A	LT3756AIMSE
375HVI	LT1375HVIS8
376HVI	LT1376HVIS8
3770	LTC3770EUH
3773	LTC3773CUHF
3773E	LTC3773EUHF
3773I	LTC3773IUHF
3776	LTC3776EUF
3780	LTC3780EUH
3780I	LTC3780IUH
3780MP	LTC3780MPUH
3782	LT3782EUFD
3782	LT3782IUFD
3782A	LT3782AEUFD
3782A	LT3782AHUFD
3782A	LT3782AIUFD
3782H	LT3782HUFD
3783	LTC3783EDHD
3783	LTC3783IDHD
3783EFE	LTC3783EFE
3783IFE	LTC3783IFE
3785	LTC3785EUF
37851	LTC3785EUF-1
3800EFE	LT3800EFE
3800IFE	LT3800IFE
3802	LTC3802EUH
3806	LTC3806EDE
3806	LTC3806EGN
3808	LTC3808EDE
3808	LTC3808EGN
3810	LTC3810EGN
3810	LTC3810EUH
38105	LTC3810EUH-5
38105	LTC3810IUH-5
3811	LTC3811EUHF
3812EFE-5	LTC3812EFE-5
3812IFE-5	LTC3812IFE-5
3813	LTC3813EUH
3813	LTC3813IUH
38135	LTC3813EUH-5
3814EFE-5	LTC3814EFE-5
3814IFE-5	LTC3814IFE-5
38221	LTC3822EGN-1
3823	LTC3823EUH
3825EFE	LT3825EFE
3826	LTC3826EUH
3826	LTC3826IUH
3827	LTC3827EUH
3827	LTC3827IUH
3827H	LTC3827HUH
3828	LTC3828EUH
3830	LTC3830EGN
3830	LTC3830ES8
38301	LTC3830-1ES8
38308	LTC3830EGN-8
3831	LTC3831EGN
3831	LTC3831IGN
38311	LTC3831EGN-1
3832	LTC3832EGN
38321	LTC3832-1ES8
3834	LTC3834EUFD
3834	LTC3834IUFD
38341	LTC3834EDHC-1
38341	LTC3834EGN-1
38341	LTC3834IDHC-1
38341	LTC3834IGN-1
3835	LTC3835EUFD
3835	LTC3835IUFD
38351	LTC3835EDHC-1
38351	LTC3835EGN-1
38351	LTC3835IDHC-1
38351	LTC3835IGN-1
3836	LTC3836EUFD
3837EFE	LT3837EFE
3837FE	LT3837IFE
3844EFE	LT3844EFE
3844IFE	LT3844IFE
3845FE	LT3845EFE
3845FE	LT3845IFE
3850	LTC3850EUF
3850	LTC3850EUFD
3850	LTC3850EUH
3850	LTC3850IUF
3850	LTC3850IUFD
3851	LTC3851EGN
3851	LTC3851EMSE
3851	LTC3851IGN
3851	LTC3851IMSE
38511	LTC3851EGN-1
38511	LTC3851EMSE-1
38511	LTC3851IGN-1
38511	LTC3851IMSE-1
3853	LTC3853EUH
3862	LTC3862EUF
3862	LTC3862EUH
3862	LTC3862HUH
3862	LTC3862IUF
3862	LTC3862IUH
38621	LTC3862EUF-1
38621	LTC3862EUH-1
38621	LTC3862HUH-1
38621	LTC3862IUF-1
38621	LTC3862IUH-1
3862H	LTC3862HUF
3878	LTC3878EGN
3878	LTC3878IGN
389A12	LT1389ACS8-1.25
389B12	LT1389BCS8-1.25
389B25	LT1389BCS8-2.5
3900	LTC3900ES8

TOP MARKINGS (TOP MARK TO PART NUMBER)

3900	LTC3900IS8
3901	LTC3901EGN
3901EFE	LTC3901EFE
4001	LTC4001EUF
40011	LTC4001EUF-1
400242	LTC4002ES8-4.2
400284	LTC4002ES8-8.4
40062	LTC4006EGN-2
40064	LTC4006EGN-4
40066	LTC4006EGN-6
4007	LTC4007EUFD
40071	LTC4007EUFD-1
4008	LTC4008EUH
4009	LTC4009CUF
4009	LTC4009EUF
40091	LTC4009CUF-1
40091	LTC4009EUF-1
40092	LTC4009CUF-2
40092	LTC4009EUF-2
40093	LTC4009EUF-3
4010CFE	LTC4010CFE
4010EFE	LTC4010EFE
4012	LTC4012CUF
4012	LTC4012EUF
40121	LTC4012CUF-1
40121	LTC4012EUF-1
40122	LTC4012CUF-2
40122	LTC4012EUF-2
40123	LTC4012CUF-3
4055	LTC4055EUF
40551	LTC4055EUF-1
4060	LTC4060EDHC
4060EFE	LTC4060EFE
4066	LTC4066EUF
40661	LTC4066EUF-1
4066T	LTC4066EPF
4067	LTC4067EDE
4085	LTC4085EDE
4085	LTC4085EGN
40851	LTC4085EDE-1
4088	LTC4088EDE
40881	LTC4088EDE-1
40882	LTC4088EDE-2
4089	LTC4089EDJC
40891	LTC4089EDJC-1
40895	LTC4089EDJC-5
4090	LTC4090EDJC
40905	LTC4090EDJC-5
4110	LTC4110EUHF
417AL1	LTC3417ALEDHC-1
417AL1	LTC3417ALIDHC-1
4210	LTC4210CS8
42101	LTC4210-1CS8
42101I	LTC4210-1IS8
42102	LTC4210-2CS8
42102I	LTC4210-2IS8
42103	LTC4210-3CS8
42103I	LTC4210-3IS8
42104	LTC4210-4CS8
42104I	LTC4210-4IS8
4211	LTC4211CS8
4211I	LTC4211IS8
4213	LTC4213CS8
4213I	LTC4213IS8
4215	LTC4215CGN
4215	LTC4215CUFD
4215	LTC4215IUFD
42151	LTC4215CUFD-1
42151	LTC4215IUFD-1
4215I	LTC4215IGN
4216	LTC4216CDE
4216	LTC4216IDE
4217	LTC4217CDHC
4217	LTC4217IDHC
421712	LTC4217CDHC-12
421712	LTC4217IDHC-12
4218	LTC4218CGN
421812	LTC4218CDHC-12
421812	LTC4218IDHC-12
4218I	LTC4218IGN
4220	LT4220CGN
4220I	LT4220IGN
4221	LTC4221CGN
4221I	LTC4221IGN
4222	LTC4222CUH
4222	LTC4222IUH
42231	LTC4223CDHD-1
42231	LTC4223CGN-1
42231	LTC4223IDHD-1
42232	LTC4223CDHD-2
42232	LTC4223CGN-2
42232	LTC4223IDHD-2
4223I1	LTC4223IGN-1
4223I2	LTC4223IGN-2
4242	LTC4242CUHF
4242	LTC4242IUHF
4245	LTC4245CUHF
4245	LTC4245IUHF
4250H	LT4250HCS8
4250HI	LT4250HIS8
4250L	LT4250LCS8
4250LI	LT4250LIS8
4251	LTC4251CS8
4251I	LTC4251IS8
42521	LTC4252-1CS8
42522	LTC4252-2CS8
4253	LTC4253CGN
4253A	LTC4253ACGN
4253AI	LTC4253AIGN
4253I	LTC4253IGN
4253J	LTC4253CUF-ADJ
4253J	LTC4253IUF-ADJ
4254	LT4254CGN
42541	LT4254-1CGN
42541I	LT4254-1IGN
42542	LT4254-2CGN
42542I	LT4254-2IGN
4254I	LT4254IGN
42561	LT4256-1CS8
42561I	LT4256-1IS8
42562	LT4256-2CS8
42562I	LT4256-2IS8
42563	LT4256-3CGN
42563I	LT4256-3IGN
4257	LTC4257CS8
42571	LTC4257CS8-1
4257I	LTC4257IS8
4257I1	LTC4257IS8-1
4260	LTC4260CUH
4260	LTC4260IUH
4261	LTC4261CUFD
4261	LTC4261IUFD
42612	LTC4261CUFD-2
42612	LTC4261IUFD-2
4263	LTC4263CDE
4263	LTC4263IDE
42631	LTC4263CDE-1
42631	LTC4263IDE-1
4264	LTC4264CDE
4264	LTC4264IDE
4265	LTC4265CDE
4265	LTC4265IDE
4266	LTC4266CUHF
4266	LTC4266IUHF
4267	LTC4267CDHC
4267	LTC4267CGN
4267	LTC4267IDHC
42671	LTC4267CGN-1
42673	LTC4267CDHC-3
42673	LTC4267CGN-3
42673	LTC4267IDHC-3
4267I	LTC4267IGN
4267I1	LTC4267IGN-1
4267I3	LTC4267IGN-3
42681	LTC4268CDKD-1
42681	LTC4268IDKD-1
42691	LTC4269CDKD-1
42691	LTC4269IDKD-1
42692	LTC4269CDKD-2
42692	LTC4269IDKD-2
42694	LTC4269CDKD-4
42694	LTC4269IDKD-4
4305	LTC4305CDHD
4305	LTC4305CGN
4305	LTC4305IDHD
4305I	LTC4305IGN
4306	LTC4306CUFD
4306	LTC4306IUFD
4309	LTC4309CDE
4309	LTC4309CGN
4309	LTC4309IDE
4309I	LTC4309IGN
4350	LTC4350CGN
4350I	LTC4350IGN
4351	LT4351CS8
4351I	LT4351IS8
4352	LTC4352CMS
4352	LTC4352IMS
4354	LTC4354CS8
43541	LTC4354CS8-1
43542	LTC4354CS8-2
4354I	LTC4354IS8
4355	LTC4355CDE
4355	LTC4355CMS
4355	LTC4355EMS
4355	LTC4355IDE
4355	LTC4355IMS
4356	LTC4356CDE
4356	LT4356HDE
4356	LT4356IDE
43561	LT4356CDE-1
43561	LT4356HDE-1
43561	LT4356IDE-1
43562	LT4356CDE-2
43562	LT4356HDE-2
43562	LT4356IDE-2
43563	LT4356CDE-3
43563	LT4356HDE-3
43563	LT4356IDE-3
4356I1	LT4356IGN-1
4358	LTC4358CDE
4358	LTC4358IDE
4358FE	LTC4358CFE
4358FE	LTC4358IFE
43AL1I	LTC1643AL-1IGN
44001	LTC4400-1ES8
4412	LTC4412CS8
4412E	LTC4412ES8
4440	LTC4440ES8
4441	LTC4441ES8
44411	LTC4441ES8-1
4441I	LTC4441IS8
4441I1	LTC4441IS8-1
4445	LTC4445EDE
4445	LTC4445IDE
44451	LTC4445EDE-1
44451	LTC4445IDE-1
4556	LTC4556EUF
460BI1	LT1460BIS8-10
460BI2	LT1460BIS8-2.5
460BI5	LT1460BIS8-5
460EI1	LT1460EIS8-10
460EI2	LT1460EIS8-2.5
460EI5	LT1460EIS8-5
460LH5	LT1460LHS8-5
460MH5	LT1460MHS8-5
461A10	LT1461ACS8-10
461A25	LT1461ACS8-2.5
461A33	LT1461ACS8-3.3
461AI3	LT1461AIS8-3
461AI4	LT1461AIS8-4
461AI5	LT1461AIS8-5
461B25	LT1461BCS8-2.5
461B33	LT1461BCS8-3.3
461BI3	LT1461BIS8-3
461BI4	LT1461BIS8-4
461BI5	LT1461BIS8-5
461C25	LT1461CCS8-2.5
461C33	LT1461CCS8-3.3
461CI3	LT1461CIS8-3
461CI4	LT1461CIS8-4
461CI5	LT1461CIS8-5
461DH3	LT1461DHS8-3
461DH4	LT1461DHS8-4
461DH5	LT1461DHS8-5
474I33	LTC1474IS8-3.3
485	LTC485CS8
485I	LTC485IS8
490	LTC490CS8
490I	LTC490IS8
502I33	LTC1502IS8-3.3
503I18	LTC1503IS8-1.8
504A33	LTC1504ACS8-3.3
506I33	LT1506IS8-3.3
5100	LTC5100EUF
514I33	LTC1514IS8-3.3
515335	LTC1515CS8-3.3/5
515I35	LTC1515ISI8-3/5
530I19	LTC1530IS8-1.9
530I25	LTC1530IS8-2.5
530I28	LTC1530IS8-2.8
530I33	LTC1530IS8-3.3
5506	LT5506EUF
5506A	LT5506AEUF
550L25	LTC1550LCS8-2.5
550L41	LTC1550LCS8-4.1
5511EFE	LT5511EFE
5512	LT5512EUF
5515	LT5515EUF
5516	LT5516EUF
5517	LT5517EUF
5518	LT5518EUF
55182	LT5518EUF-2
5519	LT5519EUF
551L25	LTC1551LCS8-2.5
551L41	LTC1551LCS8-4.1
5520	LT5520EUF
5521	LT5521EUF
5521A	LT5521AEUF
5522	LT5522EUF
5522T	LT5522TLNEUF
5525	LT5525EUF
5526	LT5526EUF
5527	LT5527EUF
5528A	LT5528EUF
5533	LTC5533EDE
5535	LTC5535EUF
5536	LTC5536EUF
5537	LT5537EUF
5538	LTC5538EDE
5546	LT5546EUF
5554	LT5554IUH
5557	LT5557EUF
5558	LT5558EUF
555L18	LTC1555LEGN-1.8
5568	LT5568EUF
55682	LT5568-2EUF
5571	LT5571EUF
5572	LT5572EUF
5575	LT5575EUF
5579	LT5579IUH
56531I	LTC1565-31IS8
56L12	LTC2656LCUFD-12
56L12	LTC2656LIUFD-12
56L16	LTC2656LCUFD-16
56L16	LTC2656LIUFD-16
573I25	LT1573IS8-2.5
573I28	LT1573IS8-2.8
573I33	LT1573IS8-3.3
5765SN	LT1576CS8-5SYNC
576ISN	LT1576IS8-SYNC
578I25	LT1578IS8-2.5
579I33	LT1579IGN-3.3
57L12	LTC2657LCUFD-12
57L12	LTC2657LHUFD-12
57L12	LTC2657LIUFD-12
57L16	LTC2657LCUFD-16
57L16	LTC2657LHUFD-16
57L16	LTC2657LIUFD-16
60010	LT6600CDF-10
60010	LT6600IDF-10
6002	LT6002CDHC
6002	LT6002CGN
6002	LT6002IDHC
60025	LT6600CDF-2.5
60025	LT6600IDF-2.5
6002I	LT6002IGN
6005	LT6005CDHC
6005	LT6005CGN
6005	LT6005HDHC
6005	LT6005IDHC
6005H	LT6005HGN
6005I	LT6005IGN
600I10	LT6600IS8-10
600I15	LT6600IS8-15
600I20	LT6600IS8-20
600I25	LT6600IS8-2.5
6010	LT6010CS8
6010A	LT6010ACS8
6010AI	LT6010AIS8
6010I	LT6010IS8
6011	LT6011CS8
6011A	LT6011ACS8
6011AI	LT6011AIS8
6011I	LT6011IS8
6012	LT6012CGN
6012A	LT6012ACGN
6012AI	LT6012AIGN
6012I	LT6012IGN
6013	LT6013CS8
6013A	LT6013ACS8
6013AI	LT6013AIS8
6013I	LT6013IS8
6014	LT6014CS8
6014A	LT6014ACS8
6014AI	LT6014AIS8
6014I	LT6014IS8
60410	LT6604CUFF-10
60410	LT6604IUFF-10
60415	LT6604CUFF-15
60415	LT6604IUFF-15
60425	LT6604CUFF-2.5
60425	LT6604IUFF-2.5
6079	LTC6079ACDHC
6079	LTC6079AIDHC
6079	LTC6079CDHC
6079	LTC6079CGN
6079	LTC6079IDHC
6079A	LTC6079ACGN
6079AH	LTC6079AHGN
6079AI	LTC6079AIGN
6079H	LTC6079HGN
6079I	LTC6079IGN
6082	LTC6082CDHC
6082	LTC6082CGN
6082	LTC6082IDHC
6082H	LTC6082HGN
6082I	LTC6082IGN
6085	LTC6085CDHC
6085	LTC6085CGN
6085	LTC6085HDHC
6085	LTC6085HGN
6088	LTC6088CDHC
6088	LTC6088CGN
6088	LTC6088HDHC
6088H	LTC6088HGN
60LH25	LT1460LHS8-2.5
60MH25	LT1460MHS8-2.5
61AI10	LT1461AIS8-10
61AI25	LT1461AIS8-2.5
61AI33	LT1461AIS8-3.3
61BI25	LT1461BIS8-2.5
61BI33	LT1461BIS8-3.3
61CI25	LT1461CIS8-2.5
61CI33	LT1461CIS8-3.3
61DH25	LT1461DHS8-2.5
61DH33	LT1461DHS8-3.3
6200	LT6200CS8
620010	LT6200CS8-10
62005	LT6200CS8-5
6200I	LT6200IS8
6200I5	LT6200IS8-5
6201	LT6201CS8
6201I	LT6201IS8
6202	LT6202CS8
6202I	LT6202IS8
6203	LT6203CS8
6203I	LT6203IS8
6204	LT6204CGN
6204I	LT6204IGN
6207	LT6207CGN
6207I	LT6207IGN
6220	LT6220CS8
6220I	LT6220IS8
6221	LT6221CS8
6221I	LT6221IS8
6222	LT6222CGN
6222I	LT6222IGN
6231	LT6231CS8
6231I	LT6231IS8
6232	LT6232CGN
6232I	LT6232IGN
6234	LT6234CS8
6234I	LT6234IS8
6235	LT6235CGN
6235I	LT6235IGN
6240	LTC6240CS8
6240H	LTC6240HS8
6240HV	LTC6240HVCS8
6240I	LTC6240IS8
6241	LTC6241CS8
6241H	LTC6241HS8
6241HV	LTC6241HVCS8
6241I	LTC6241IS8
6242	LTC6242CDHC
6242	LTC6242CGN
6242	LTC6242IDHC
6242H	LTC6242HGN
6242HV	LTC6242HVCDHC
6242HV	LTC6242HVCGN
6242HV	LTC6242HVIDHC
6242I	LTC6242IGN
6300	LTC6300CGN
6300I	LTC6300IGN
634AI1	LT1634AIS8-1.25
634AI2	LT1634AIS8-2.5
634AI4	LT1634AIS8-4.096
634AI5	LT1634AIS8-5
634BI1	LT1634BIS8-1.25
634BI2	LT1634BIS8-2.5
634BI4	LT1634BIS8-4.096
634BI5	LT1634BIS8-5
636HZ8	LTC2636CMS-HZ8
636HZ8	LTC2636HMS-HZ8
636HZ8	LTC2636IMS-HZ8
636LZ8	LTC2636CMS-LZ8
636LZ8	LTC2636HMS-LZ8
636LZ8	LTC2636IMS-LZ8
640AHI	LT1640AHIS8
640ALI	LT1640ALIS8
6412	LTC6412CUF
6412	LTC6412IUF
641A16	LTC2641ACS8-16
641A16	LTC2641AIS8-16
643AHI	LTC1643AHIGN
643AL1	LTC1643AL-1CGN
643ALI	LTC1643ALIGN
643L1I	LTC1643L-1IGN
6552	LT6552CS8
6552I	LT6552IS8
6553	LT6553CGN
6553I	LT6553IGN
6554	LT6554CGN
6554I	LT6554IGN
6555	LT6555CUF
6555	LT6555IUF
6556	LT6556CUF
6556	LT6556IUF
6557	LT6557CDHC
6557	LT6557CGN
6557	LT6557IDHC
6557I	LT6557IGN
6558	LT6558CDHC
6558	LT6558CGN
6558	LT6558IDHC
6558I	LT6558IGN
6560	LTC6560IUH
65612	LTC2656CUFD-12
65612	LTC2656IUFD-12
65616	LTC2656CUFD-16
65616	LTC2656IUFD-16
65712	LTC2657CUFD-12
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65712	LTC2657IUFD-12
65716	LTC2657CUFD-16
65716	LTC2657HUFD-16
65716	LTC2657IUFD-16
660	LTC660CS8
660010	LT6600CS8-10
660015	LT6600CS8-15
660020	LT6600CS8-20
660025	LT6600CS8-2.5
66005	LT6600CS8-5
6600I5	LT6600IS8-5
66011	LTC6601CUF-1
66011	LTC6601IUF-1
66012	LTC6601CUF-2
66012	LTC6601IUF-2
6602	LTC6602CUF
6602	LTC6602IUF
6603	LTC6603CUF
6603	LTC6603IUF
66045	LT6604CUFF-5
66045	LT6604IUFF-5
660510	LTC6605CDJC-10
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660514	LTC6605CDJC-14
660514	LTC6605IDJC-14

66057	LTC6605CDJC-7
66057	LTC6605IDJC-7
682I33	LTC1682IS8-3.3
690	LTC690CS8
6909	LTC6909CMS
6909	LTC6909HMS
6909	LTC6909IMS
690I	LTC690IS8
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69121	LTC6912HDE-1
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69122	LTC6912CDE-2
69122	LTC6912CGN-2
69122	LTC6912HDE-2
69122	LTC6912IDE-2
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6912H2	LTC6912HGN-2
6912I1	LTC6912IGN-1
6912I2	LTC6912IGN-2
6915	LTC6915CDE
6915	LTC6915CGN
6915H	LTC6915HGN
6915I	LTC6915IDE
6915I	LTC6915IGN
692	LTC692CS8
692I	LTC692IS8
694	LTC694CS8
6943	LTC694CS8-3.3
6943C	LTC6943CGN
6943H	LTC6943HGN
6943I	LTC6943IGN
694I	LTC694IS8
694I3	LTC694IS8-3.3
699	LTC699CS8
699I	LTC699IS8
6HMI10	LTC2636CMS-HMI10
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706I19	LTC1706IS8-19
726I25	LTC1726IS8-2.5
727I25	LTC1727IS8-2.5
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728LX1	LTC3728LXCUH-1
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728LZE	LTC3728LZEUH
731E82	LTC1731ES8-8.2
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7510	LTC7510EUH
7510	LTC7510IUH
7510D	LTC7510DEUH
76315	LT1763CDE-1.5
76318	LT1763CDE-1.8
76325	LT1763CDE-2.5
76333	LT1763CDE-3.3
763MP5	LT1763MPS8-5
766ISN	LT1766IS8-SYNC
76I5SN	LT1576IS8-5SYNC
787HVH	LT1787HVHS8
787HVI	LT1787HVIS8
789I10	LT1789IS8-10
798I25	LTC1798IS8-2.5
798I41	LTC1798IS8-4.1
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813HVD	LT1813HVDS8
813HVI	LT1813HVIS8
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864LAI	LTC1864LAIS8
865LAI	LTC1865LAIS8
921I25	LTC2921IGN-2.5
921I33	LTC2921IGN-3.3
963A15	LT1963AES8-1.5
963A15	LT1963AEST-1.5
963A18	LT1963AES8-1.8
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963A25	LT1963AES8-2.5
963A25	LT1963AEST-2.5
963A33	LT1963AES8-3.3
963A33	LT1963AEST-3.3
963AMP	LT1963AMPS8
963I18	LT1963IS8-1.8
963I25	LT1963IS8-2.5
963I33	LT1963IS8-3.3
990I10	LT1990IS8-10
CXVT	LTC3548EKD-1
DBCT	LT3502AEKC-3
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DQKT	LTC4099EPDC
DSZT	LTC4098EPDC-1
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FDPT	LTC3554IPD
FDYT	LT3587EPD
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HMI12	LTC2636IDE-HMI12
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HMX10	LTC2636HDE-HMX10
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LAAE	LT1937BESC6
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LBDV	LT6650HS5
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LBFF	LTC2908IDDB-A1
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LBGC	LT3472EDD
LBGD	LT5534ESC6
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LBHC	LT6013ACDD
LBHC	LT6013AIDD
LBHC	LT6013CDD
LBHC	LT6013IDD
LBHG	LTC4300A-3CDD
LBHG	LTC4300A-3IDD
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LBJK	LT3463AEDD
LBJR	LT5537EDDB
LBJS	LTC4061EDD
LBJT	LTC4062EDD
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LBJY	LTC2480CDD
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LBJZ	LT1947EDD
LBKB	LTC3447EDD
LBKC	LT3020EDD-1.2
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LBKM	LT3027EDD
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LBNN	LTC2053HDD-SYNC
LBNN	LTC2053IDD-SYNC
LBNR	LTC3772EDDB
LBNS	LT1993CUD-4
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LBNT	LT1993IUD-10
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LBQK	LTC3203EDD
LBQM	LT1994CDD
LBQM	LT1994HDD
LBQM	LT1994IDD
LBQP	LTC3221EDC-3.3
LBQX	LTC3454EDD
LBQY	LTC3809EDD
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LBQZ	LTC3809IDD-1
LBRB	LTC3499EDD
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LBRM	LTC3035EDDB
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LBRR	LTC6241HVIDD
LBRT	LT3014HVEDD
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LBRW	LTC3203IDD
LBRX	LT3466EDD-1
LBSC	LTC4075EDD
LBSD	LTC3410ESC6
LBSF	LTC3410ESC6-2
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LBSH	LTC3410ESC6-4
LBSJ	LTC3410ESC6-5
LBSK	LTC3410ESC6-6
LBSM	LTC3410ESC6-7
LBSN	LTC3410ESC6-8
LBSP	LTC3410ESC6-9
LBSQ	LTC2482CDD
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LBSR	LTC2483IDD
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LBTK	LT3485EDD-3
LBTM	LT3484EDCB-0
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LBTP	LT3484EDCB-2
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LBTT	LTC4308CDD
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LBTW	LTC4307CDD
LBTW	LTC4307IDD
LBVB	LTC3531IDD
LBVC	LTC3531EDD
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LBVG	LTC3204BEDC-5
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LBVJ	LTC4065AEDC
LBVN	LT3485EDD-1
LBVP	LT3485EDD-2
LBVQ	LTC3214EDD
LBVR	LTC2490CDC
LBVR	LTC2490IDC
LBVS	LT3481EDD
LBVS	LT3481HDD
LBVV	LT3481IDD
LBVY	LT1460KCDCB-2.5
LBVZ	LTC3444EDD
LBWC	LTC4076EDD
LBWD	LTC4077EDD
LBWG	LT3493AEDCB
LBWH	LTC3531EDD-3.3
LBWJ	LTC3531IDD-3.3
LBWP	LTC3772BEDDB
LBWQ	LTC3251EDD
LBWR	LTC3251EDD-1.2
LBWS	LTC3251EDD-1.5
LBWT	LTC3525ESC6-5
LBWV	LTC3448EDD-1.5
LBWW	LTC3448EDD-1.8
LBWZ	LT1010CDD
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LBXB	LT3487EDD
LBXD	LTC4080EDD
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LBXG	LTC2909HDDB-2.5
LBXG	LTC2909IDDB-2.5
LBXH	LTC3210EUD
LBXJ	LTC3240EDC-3.3
LBXN	LT6660HCDC-2.5
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LBXN	LT6660KCDC-2.5
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TOP MARKINGS (TOP MARK TO PART NUMBER)

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LBXW	LT6700IDCB-1
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LBXX	LT6700IDCB-2
LBXY	LT6700CDCB-3
LBXY	LT6700HDCB-3
LBXY	LT6700IDCB-3
LBXZ	LTC6908CDCB-1
LBXZ	LTC6908IDCB-1
LBYB	LTC6908CDCB-2
LBYB	LTC6908IDCB-2
LBYG	LT3489EDD
LBYH	LT3020IDD
LBYJ	LT3020IDD-1.2
LBYK	LT3020IDD-1.5
LBYM	LT3020IDD-1.8
LBYS	LT1634BCDD-1.25
LBYS	LT1634BIDD-1.25
LBYT	LT6660HCDC-5
LBYT	LT6660JCDC-5
LBYT	LT6660KCDC-5
LBYV	LT6660HCDC-3
LBYV	LT6660JCDC-3
LBYV	LT6660KCDC-3
LBYW	LT6660HCDC-3.3
LBYW	LT6660JCDC-3.3
LBYW	LT6660KCDC-3.3
LBYX	LT6660HCDC-10
LBYX	LT6660JCDC-10
LBYX	LT6660KCDC-10
LBYY	LT1634BCDD-4.096
LBYY	LT1634BIDD-4.096
LBYZ	LT1634BCDD-5
LBYZ	LT1634BIDD-5
LBZB	LTC4067EDD
LBZC	LTC3548EDD-1
LBZH	LTC2601CDD-1
LBZH	LTC2601IDD-1
LBZJ	LTC2611CDD-1
LBZJ	LTC2611IDD-1
LBZK	LTC2621CDD-1
LBZK	LTC2621IDD-1
LBZR	LTC3549EDCB
LBZS	LTC2909CDDB-3.3
LBZS	LTC2909HDDB-3.3
LBZS	LTC2909IDDB-3.3
LBZT	LTC2909CDDB-5
LBZT	LTC2909HDDB-5
LBZT	LTC2909IDDB-5
LBZX	LTC4069EDC
LBZY	LTC3410BESC6
LBZZ	LT6402CUD-6
LBZZ	LT6402IUD-6
LCBB	LT6402CUD-12
LCBB	LT6402IUD-12
LCBC	LT6402CUD-20
LCBC	LT6402IUD-20
LCBD	LTC4065LEDC
LCBF	LTC3822EDD
LCBH	LTC3530EDD
LCBN	LT3080EDD
LCBP	LTC3240EDC-2.5
LCBS	LTC3541EDD
LCBT	LTC3210EUD-1
LCBV	LTC3531EDD-3
LCBW	LTC3531IDD-3
LCBX	LT5560EDD
LCCB	LT6004CDD
LCCB	LT6004HDD
LCCB	LT6004IDD
LCCD	LT3494EDDB
LCCF	LTC6244CDD
LCCF	LTC6244IDD
LCCK	LTC3543EDCB
LCCN	LTC3221EDC-5
LCCP	LTC3221EDC
LCCQ	LTC6400CUD-8
LCCQ	LTC6400IUD-8
LCCR	LTC6400CUD-14
LCCR	LTC6400IUD-14
LCCS	LTC6400CUD-20
LCCS	LTC6400IUD-20
LCCT	LT6400CUD-20A
LCCV	LT6400CUD-20E
LCCW	LT6400CUD-20F
LCCX	LTC6400CUD-26
LCCX	LTC6400IUD-26
LCCY	LTC6401CUD-8
LCCY	LTC6401IUD-8
LCCZ	LTC6401CUD-14
LCCZ	LTC6401IUD-14
LCDB	LTC6401CUD-20
LCDB	LTC6401IUD-20
LCDC	LT6400CUD-20S
LCDD	LT6401CUD-20E
LCDF	LT6401CUD-20F
LCDG	LTC6401CUD-26
LCDG	LTC6401IUD-26
LCDH	LT6410CUD-15
LCDJ	LT6410LCUD-15
LCDK	LTC3548EDD-2
LCDM	LT6000CDCB
LCDM	LT6000IDCB
LCDP	LTC3547EDDB
LCDP	LTC3547IDDB
LCDR	LTC3525ESC6-3
LCDT	LTC3540BEDD
LCDV	LTC2641ACDD
LCDV	LTC2641AIDD
LCDV	LTC2641BCDD
LCDV	LTC2641BIDD
LCDX	LTC2642ACDD
LCDX	LTC2642AIDD
LCDX	LTC2642BCDD
LCDX	LTC2642BIDD
LCDZ	LTC3499BEDD
LCFG	LT3482EUD
LCFG	LT3482IUD
LCFH	LTC3203EDD-1
LCFJ	LTC3203IDD-1
LCFK	LTC3872EDDB-1
LCFM	LTC3872EDDB-2
LCFQ	LTC3410ESC6-1.875
LCFR	LTC3542EDC
LCFR	LTC3542IDC
LCFS	LTC3542ES6
LCFS	LTC3542IS6
LCFV	LTC2908CDDB-C1
LCFV	LTC2908IDDB-C1
LCFX	LT3585EDDB-3
LCFZ	LT1934EDCB
LCFZ	LT1934IDCB
LCGB	LTC3872ETS8
LCGB	LTC3872ITS8
LCGD	LTC6244HVCDD
LCGD	LTC6244HVHDD
LCGD	LTC6244HVIDD
LCGG	LT3493EDCB
LCGH	LT3493IDCB
LCGJ	LT3493EDCB-3
LCGK	LT3493IDCB-3
LCGM	LT1933IDCB
LCGN	LT1933HDCB
LCGP	LT6411CUD
LCGP	LT6411IUD
LCGR	LTC2858CDD-1
LCGR	LTC2858HDD-1
LCGR	LTC2858IDD-1
LCGS	LT3493AIDCB
LCGT	LT3497EDDB
LCGV	LT3493EDCB-4
LCGW	LT3503EDCB
LCGX	LTC3203BEDD
LCGY	LTC3203BEDD-1
LCHB	LT3505EDD
LCHC	LT3505IDD
LCHD	LT3505EDCB
LCHF	LT3505IDCB
LCHG	LT6559CUD
LCHG	LT6559IUD
LCHH	LT6559HVCUD
LCHH	LT6559HVIUD
LCHJ	LT3491EDC
LCHM	LT3014BEDD
LCHM	LT3014BIDD
LCHP	LT3014BHVEDD
LCHP	LT3014BHVIDD
LCHQ	LTC3541EDD-2
LCHR	LTC3541EDD-3
LCHS	LTC3218EDDB
LCHT	LTC3872EDDB
LCHT	LTC3872IDDB
LCHV	LTC3410ESC6-1.2
LCHW	LTC3526EDC
LCHX	LTC3210EUD-2
LCHY	LTC3210EUD-3
LCHZ	LTC3410BESC6-1.875
LCJB	LTC3407EDD-3
LCJD	LTC3407EDD-4
LCJF	LTC3410ESC6-1.65
LCJG	LTC2954CDDB-1
LCJG	LTC2954IDDB-1
LCJJ	LTC3561EDD
LCJM	LTC3805EDD
LCJP	LTC6081CDD
LCJP	LTC6081IDD
LCJQ	LT5570IDD
LCJV	LTC3219EUD
LCJZ	LTC2912CDDB-1
LCJZ	LTC2912HDDB-1
LCJZ	LTC2912IDDB-1
LCKB	LTC2912CDDB-2
LCKB	LTC2912HDDB-2
LCKB	LTC2912IDDB-2
LCKC	LTC2912CDDB-3
LCKC	LTC2912HDDB-3
LCKC	LTC2912IDDB-3
LCKD	LT3467AEDDB
LCKD	LT3467AIDDB
LCKF	LT6003CDC
LCKF	LT6003HDC
LCKF	LT6003IDC
LCKH	LTC6102CDD
LCKH	LTC6102HDD
LCKH	LTC6102IDD
LCKN	LTC2913CDD-1
LCKN	LTC2913HDD-1
LCKN	LTC2913IDD-1
LCKP	LTC2913CDD-2
LCKP	LTC2913HDD-2
LCKP	LTC2913IDD-2
LCKQ	LTC4069EDC-4.4
LCKR	LTC4065EDC-4.4
LCKS	LTC4065LXEDC
LCKT	LTC6930CDCB-4.19
LCKT	LTC6930HDCB-4.19
LCKT	LTC6930IDCB-4.19
LCKV	LTC6930CDCB-5.00
LCKV	LTC6930HDCB-5.00
LCKV	LTC6930IDCB-5.00
LCKW	LTC6930CDCB-7.37
LCKW	LTC6930HDCB-7.37
LCKW	LTC6930IDCB-7.37
LCKX	LTC6930CDCB-8.00
LCKX	LTC6930HDCB-8.00
LCKX	LTC6930IDCB-8.00
LCKY	LTC6930CDCB-8.19
LCKY	LTC6930HDCB-8.19
LCKY	LTC6930IDCB-8.19
LCLG	LTC4095EDC
LCLH	LT3585EDDB-2
LCLJ	LT3585EDDB-1
LCLK	LT3585EDDB-0
LCLM	LTC4096XEDD
LCLN	LTC3544BEUD
LCLT	LT3502AEDC
LCLT	LT3502AIDC
LCLV	LT3502EDC
LCLV	LT3502IDC
LCLW	LTC6404CUD-1
LCLW	LTC6404HUD-1
LCLW	LTC6404IUD-1
LCLX	LTC6404CUD-2
LCLX	LTC6404HUD-2
LCLX	LTC6404IUD-2
LCLY	LTC6404CUD-4
LCLY	LTC6404HUD-4
LCLY	LTC6404IUD-4
LCMB	LTC3559EUD
LCMD	LTC2857CDD-1
LCMD	LTC2857HDD-1
LCMD	LTC2857IDD-1
LCMG	LTC2856CDD-1
LCMG	LTC2856HDD-1
LCMG	LTC2856IDD-1
LCMJ	LTC2856CDD-2
LCMJ	LTC2856HDD-2
LCMJ	LTC2856IDD-2
LCMM	LTC2857CDD-2
LCMM	LTC2857HDD-2
LCMM	LTC2857IDD-2
LCMR	LTC2858CDD-2
LCMR	LTC2858HDD-2
LCMR	LTC2858IDD-2
LCMS	LTC3822EDD-1
LCMV	LT3502AEDDB
LCMV	LT3502AIDDB
LCMW	LT3502EDDB
LCMW	LT3502IDDB
LCMX	LTC3410BESC6-1.2
LCMY	LTC3410BESC6-1.5
LCMZ	LTC3410BESC6-1.8
LCNB	LTC3410ESC6-1.5
LCNC	LTC3410ESC6-1.8
LCND	LT3539EDD-1
LCNF	LTC4311CSC6
LCNF	LTC4311ISC6
LCNG	LTC4311CDC
LCNG	LTC4311IDC
LCNJ	LTC2954CDDB-2
LCNJ	LTC2954IDDB-2
LCNM	LTC3526EDC-2
LCNN	LTC3526BEDC
LCNP	LTC3526BEDC-2
LCNR	LT3470HDDB
LCNV	LTC2491CDC
LCNV	LTC2491IDC
LCNW	LTC2491CDDB
LCNW	LTC2491IDDB
LCNZ	LT3590EDC
LCPB	LT3590ESC8
LCPC	LTC3547EDDB-1
LCPC	LTC3547IDDB-1
LCPD	LTC3547BEDDB
LCPD	LTC3547BIDDB
LCPF	LTC3547BEDDB-1
LCPF	LTC3547BIDDB-1
LCPG	LT3591EDDB
LCPP	LTC4413EDD-1
LCPQ	LTC4413EDD-2
LCPV	LTC3562EUD
LCPW	LTC3217EUD-1
LCPX	LT3467EDDB
LCPX	LT3467IDDB
LCPY	LTC3525LESC6-3
LCPZ	LTC3525LESC6-3.3
LCQB	LTC3525LESC6-5
LCQC	LTC2850CDD
LCQC	LTC2850HDD
LCQC	LTC2850IDD
LCQF	LT3498EDDB
LCQG	LTC2854CDD
LCQG	LTC2854HDD
LCQG	LTC2854IDD
LCQJ	LTC3419EDD
LCQJ	LTC3419IDD
LCQM	LTC4075HVXEDD
LCQN	LTC3407AEDD
LCQN	LTC3407AIDD
LCQR	LTC2917CDDB-B1
LCQR	LTC2917HDDB-B1
LCQR	LTC2917IDDB-B1
LCQT	LTC2953CDD-2
LCQT	LTC2953IDD-2
LCQX	LT3009EDC
LCQX	LT3009IDC
LCQY	LT3009ESC8
LCQZ	LTC3525DESC6-3.3
LCRB	LTC3538EDCB
LCRM	LTC4097EDDB
LCRN	LT3500EDD
LCRN	LT3500IDD
LCRQ	LTC3522EUD
LCRW	LT3494AEDDB
LCRY	LTC2852CDD
LCRY	LTC2852HDD
LCRY	LTC2852IDD
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LCSB	LTC2630AHSC6-LZ12
LCSB	LTC2630AISC6-LZ12
LCSB	LTC2630CSC6-LZ12
LCSB	LTC2630HSC6-LZ12
LCSB	LTC2630ISC6-LZ12
LCSC	LTC2630ACDC-LZ12
LCSC	LTC2630AHDC-LZ12
LCSC	LTC2630AIDC-LZ12
LCSC	LTC2630CDC-LZ12
LCSC	LTC2630HDC-LZ12
LCSC	LTC2630IDC-LZ12
LCSD	LTC6410CUD-10
LCSD	LTC6410IUD-10
LCSF	LT3480EDD-1
LCSG	LTC3568EDD
LCSH	LTC4558EUD
LCSJ	LTC4096EDD
LCSK	LTC3873EDDB
LCSM	LTC3873EDDB-5
LCSM	LTC3873IDDB-5
LCSQ	LT3591EDDB-2
LCSR	LTC3545EUD
LCSR	LTC3545IUD
LCSS	LTC3526LEDC
LCST	LTC3526LBEDC
LCSV	LT5575EDD-2
LCSW	LT5575EDD-5
LCSX	LT5575EDD-7
LCSY	LT5575EDD-9
LCSZ	LTC3563EDC
LCTC	LTC6406CUD
LCTC	LTC6406IUD
LCTF	LT6105CDCB
LCTF	LT6105HDCB
LCTF	LT6105IDCB
LCTG	LTC4442EDCB
LCTG	LTC4442IDCB
LCTH	LTC4442HDCB
LCTP	LT3480EDD
LCTP	LT3480IDD
LCTQ	LT3480HDD
LCTR	LTC2450CDC
LCTR	LTC2450IDC
LCTS	LTC4097XEDDB
LCTW	LT6703CDC-3
LCTW	LT6703HDC-3
LCTW	LT6703IDC-3
LCTX	LTC6087CDD
LCTX	LTC6087HDD
LCTZ	LTC3529EDCB
LCVC	LTC6102HVCDD
LCVC	LTC6102HVHDD
LCVC	LTC6102HVIDD
LCVG	LT5538EDD
LCVG	LT5538IDD
LCVR	LTC2915CDDB-1
LCVR	LTC2915HDDB-1
LCVR	LTC2915IDDB-1
LCVT	LT3684EDD
LCVT	LT3684IDD
LCVV	LTC4080XEDD
LCWD	LTC2851CDD
LCWD	LTC2851HDD
LCWD	LTC2851IDD
LCWG	LT3580EDCB
LCWG	LT3580IDCB
LCWH	LTC3672BEDC-1
LCWM	LTC3212EDDB
LCWP	LT6703CDC-2
LCWP	LT6703HDC-2
LCWP	LT6703IDC-2
LCWQ	LTC3541EDD-1
LCWR	LTC2630ACSC6-HM12
LCWR	LTC2630AHSC6-HM12
LCWR	LTC2630AISC6-HM12
LCWR	LTC2630CSC6-HM12
LCWR	LTC2630HSC6-HM12
LCWR	LTC2630ISC6-HM12
LCWS	LTC2630ACDC-HM12
LCWS	LTC2630AHDC-HM12
LCWS	LTC2630AIDC-HM12
LCWS	LTC2630CDC-HM12
LCWS	LTC2630HDC-HM12
LCWS	LTC2630IDC-HM12
LCWT	LTC2953CDD-1
LCWT	LTC2953IDD-1
LCWW	LTC3419EDD-1
LCWW	LTC3419IDD-1
LCWZ	LTC4151CDD
LCWZ	LTC4151IDD
LCXC	LTC4151CDD-1
LCXC	LTC4151IDD-1
LCXF	LTC4357CDCB
LCXF	LTC4357IDCB
LCXH	LTC4443EDD
LCXH	LTC4443IDD
LCXJ	LTC2450CDDB
LCXJ	LTC2450IDDB
LCXM	LTC3544EUD
LCXM	LTC3544IUD
LCXN	LTC3851EUD
LCXN	LTC3851IUD
LCXP	LTC3527EUD-1
LCXQ	LTC4442EDCB-1
LCXQ	LTC4442IDCB-1
LCXT	LTC3210EPD-1
LCXW	LT1965EDD
LCXW	LT1965IDD
LCXY	LT3580EDD
LCXY	LT3580IDD
LCYB	LTC3230EUD
LCYB	LTC3230IUD
LCYC	LTC3523EUD
LCYD	LTC3528EDDB
LCYG	LT3685EDD
LCYG	LT3685IDD
LCYH	LT3573EUD
LCYH	LT3573IUD
LCYK	LT3680EDD
LCYK	LT3680IDD
LCYN	LTC4443EDD-1
LCYN	LTC4443IDD-1
LCYP	LTC4078XEDD
LCYQ	LTC2304CDD
LCYQ	LTC2304IDD
LCYR	LTC3225EDDB
LCYT	LT3483EDC
LCYT	LT3483IDC
LCYV	LTC2630ACSC6-LZ8
LCYV	LTC2630AHSC6-LZ8
LCYV	LTC2630AISC6-LZ8
LCYV	LTC2630CSC6-LZ8
LCYV	LTC2630HSC6-LZ8
LCYV	LTC2630ISC6-LZ8
LCYW	LTC2630ACSC6-LM8
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LCZD	LTC2630CSC6-LZ10
LCZD	LTC2630HSC6-LZ10
LCZD	LTC2630ISC6-LZ10
LCZF	LTC2630ACSC6-LM10
LCZF	LTC2630AHSC6-LM10
LCZF	LTC2630AISC6-LM10
LCZF	LTC2630CSC6-LM10
LCZF	LTC2630HSC6-LM10

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LCZG	LTC2630ACSC6-HZ10
LCZG	LTC2630AHSC6-HZ10
LCZG	LTC2630AISC6-HZ10
LCZG	LTC2630CSC6-HZ10
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LCZH	LTC2630AISC6-HM10
LCZH	LTC2630CSC6-HM10
LCZH	LTC2630HSC6-HM10
LCZH	LTC2630ISC6-HM10
LCZJ	LTC6702CDC
LCZJ	LTC6702HDC
LCZJ	LTC6702IDC
LCZM	LTC2641CDD-12
LCZM	LTC2641IDD-12
LCZN	LTC2641CDD-14
LCZN	LTC2641IDD-14
LCZP	LTC2641ACDD-16
LCZP	LTC2641AIDD-16
LCZP	LTC2641CDD-16
LCZP	LTC2641IDD-16
LCZT	LTC2642CDD-12
LCZT	LTC2642IDD-12
LCZV	LTC2642CDD-14
LCZV	LTC2642IDD-14
LCZW	LTC2642ACDD-16
LCZW	LTC2642AIDD-16
LCZW	LTC2642CDD-16
LCZW	LTC2642IDD-16
LDBD	LTC3537EUD
LDBD	LTC3537IUD
LDBG	LTC6410CUD-6
LDBG	LTC6410IUD-6
LDBH	LTC3672BEDC-2
LDBK	LT3495EDDB-D
LDBM	LTC6403CUD-1
LDBM	LTC6403IUD-1
LDBP	LTC4307CDD-1
LDBP	LTC4307IDD-1
LDBQ	LTC2453CDDB
LDBQ	LTC2453IDDB
LDBR	LT3593EDC
LDBX	LTC4081EDD
LDBY	LTC3670EDDB
LDBZ	LTC2450CDC-1
LDBZ	LTC2450IDC-1
LDCD	LTC3558EUD
LDCK	LTC3210EPD
LDCM	LTC3210EPD-2
LDCN	LTC3210EPD-3
LDCP	LTC6102APCDD
LDCQ	LT3592EDDB
LDCQ	LT3592IDDB
LDCS	LTC3539EDCB
LDCV	LTC2918CDDB-B1
LDCV	LTC2918HDDB-B1
LDCV	LTC2918IDDB-B1
LDCX	LTC2916CDDB-1
LDCX	LTC2916HDDB-1
LDCX	LTC2916IDDB-1
LDCY	LT3500HDD
LDDB	LT3582EUD
LDDC	LT3495EDDB-1D
LDDD	LT3495BEDDB-1D
LDDF	LT3495BEDDB-D
LDDG	LTC3528BEDDB
LDDH	LTC3407AEDD-2
LDDH	LTC3407AIDD-2
LDDK	LTC3527EUD
LDDM	LTC6420CUDC-20
LDDM	LTC6420IUDC-20
LDDN	LTC6421CUDC-20
LDDN	LTC6421IUDC-20
LDDP	LTC3545EUD-1
LDDP	LTC3545IUD-1
LDDR	LTC3523EUD-2
LDDS	LT3650EDD-4.2
LDDS	LT3650IDD-4.2
LDDT	LTC4098EUDC
LDDW	LTC3025EDC-1
LDDW	LTC3025IDC-1
LDDX	LTC4447EDD-1
LDDX	LTC4447IDD-1
LDDY	LTC6416CDDB
LDDY	LTC6416IDDB
LDFT	LT1938EDD
LDFT	LT1938IDD
LDGB	LT3693EDD
LDGB	LT3693IDD
LDGC	LT3755EUD
LDGC	LT3755IUD
LDGF	LTC2917CDDB-A1
LDGF	LTC2917HDDB-A1
LDGF	LTC2917IDDB-A1
LDGH	LTC2918CDDB-A1
LDGH	LTC2918HDDB-A1
LDGH	LTC2918IDDB-A1
LDGQ	LTC2451CDDB
LDGQ	LTC2451IDDB
LDGT	LTC2919CDDB-2.5
LDGT	LTC2919HDDB-2.5
LDGT	LTC2919IDDB-2.5
LDGV	LTC2302CDD
LDGV	LTC2302IDD
LDGW	LTC2306CDD
LDGW	LTC2306IDD
LDGY	LTC3125EDCB
LDGY	LTC3125IDCB
LDHB	LTC3805EDD-5
LDHB	LTC3805IDD-5
LDHC	LT1934EDCB-1
LDHC	LT1934IDCB-1
LDHD	LTC4447EDD
LDHD	LTC4447IDD
LDJM	LTC1778EUD
LDJM	LTC1778IUD
LDJN	LT3653EDCB
LDJN	LT3653IDCB
LDJR	LTC3100EUD
LDJT	LT1912EDD
LDJV	LT3460ESC6-1
LDJW	LT1913EDD
LDJW	LT1913IDD
LDJX	LT1468ACDD
LDJX	LT1468AIDD
LDJX	LT1468CDD
LDJX	LT1468IDD
LDJY	LTC4078EDD
LDJZ	LT1939EDD
LDJZ	LT1939IDD
LDKB	LTC3561AEDD
LDKB	LTC3561AIDD
LDKC	LT3009EDC-1.8
LDKC	LT3009IDC-1.8
LDKD	LT3009EDC-3.3
LDKD	LT3009IDC-3.3
LDKF	LT3009EDC-5
LDKF	LT3009IDC-5
LDKG	LT3009ESC8-1.8
LDKH	LT3009ESC8-3.3
LDKJ	LT3009ESC8-5
LDKM	LT5581IDDB
LDKP	LTC6405CUD
LDKP	LTC6405IUD
LDKQ	LT3011EDD
LDKQ	LT3011HDD
LDKQ	LT3011IDD
LDKT	LTC2934CDC-1
LDKT	LTC2934IDC-1
LDKV	LTC2934CDC-2
LDKV	LTC2934IDC-2
LDKW	LT1965EDD-1.5
LDKW	LT1965IDD-1.5
LDKY	LT1965EDD-1.8
LDKY	LT1965IDD-1.8
LDMB	LT1965EDD-2.5
LDMB	LT1965IDD-2.5
LDMD	LT1965EDD-3.3
LDMD	LT1965IDD-3.3
LDMJ	LTC2930CDD
LDMJ	LTC2930HDD
LDMJ	LTC2930IDD
LDMK	LTC3025EDC-2
LDMK	LTC3025IDC-2
LDMM	LTC3459EDCB
LDMM	LTC3459IDCB
LDMQ	LT3756EUD
LDMQ	LT3756IUD
LDMR	LT3756EUD-1
LDMR	LT3756IUD-1
LDMS	LT3755EUD-1
LDMS	LT3755IUD-1
LDMW	LTC2919CDDB-3.3
LDMW	LTC2919HDDB-3.3
LDMW	LTC2919IDDB-3.3
LDMX	LTC2919CDDB-5
LDMX	LTC2919HDDB-5
LDMX	LTC2919IDDB-5
LDNB	LT3460EDC-1
LDNC	LT3587EUD
LDNH	LTC6084CDD
LDNH	LTC6084HDD
LDNJ	LTC2452CDDB
LDNJ	LTC2452IDDB
LDNR	LTC3565EDD
LDNR	LTC3565IDD
LDNT	LTC3851EUD-1
LDNT	LTC3851IUD-1
LDNV	LTC4224CDDB-2
LDNV	LTC4224IDDB-2
LDNZ	LTC3528EDDB-2
LDPB	LTC3528BEDDB-2
LDPD	LT3587EUDC-1
LDPF	LTC3459EDC-1
LDPF	LTC3459IDC-1
LDPG	LTC3459EDCB-1
LDPG	LTC3459IDCB-1
LDPH	LTC3539EDCB-2
LDPJ	LTC4352CDD
LDPJ	LTC4352IDD
LDPM	LT3080EDD-1
LDPQ	LTC3025EDC-4
LDPQ	LTC3025IDC-4
LDPR	LT3470AEDDB
LDPR	LT3470AIDDB
LDPS	LT3008EDC
LDPS	LT3008IDC
LDPX	LTC2935CDC-1
LDPX	LTC2935IDC-1
LDQC	LTC2935CDC-2
LDQC	LTC2935IDC-2
LDQD	LTC3559EUD-1
LDQF	LTC3569EUD
LDQF	LTC3569IUD
LDQM	LTC4078EDD-2
LDQN	LT3495EDDB12
LDQQ	LT3085EDCB
LDQQ	LT3085IDCB
LDQS	LTC3025EDC-3
LDQS	LTC3025IDC-3
LDSR	LTC4082EDD
LDSS	LT3495EDDB
LDST	LT3495BEDDB
LDSV	LT3495EDDB-1
LDSW	LT3495BEDDB-1
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LDSY	LT1468CDD-2
LDSY	LT1468IDD-2
LDTD	LT3060EDC
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LDTG	LTC3459IDC
LDTJ	LTC3642EDD
LDTJ	LTC3642IDD
LDTK	LTC3878EUD
LDTK	LTC3878IUD
LDTN	LT3571EUD
LDTN	LT3571IUD
LDTQ	LTC3564EDCB
LDTQ	LTC3564IDCB
LDTT	LTC4224CDDB-1
LDTT	LTC4224IDDB-1
LDTW	LT3009EDC-1.2
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LDTY	LT3009EDC-2.5
LDTY	LT3009IDC-2.5
LDTZ	LT3009ESC8-2.5
LDVB	LT3009EDC-1.5
LDVB	LT3009IDC-1.5
LDVC	LT3009ESC8-1.5
LDVM	LT1964EDD
LDVM	LT1964IDD
LDVP	LT3495BEDDB12
LDVQ	LT3495EDDB12-1
LDVR	LT3495BEDDB12-1
LDVS	LT6700MPDCB-1
LDVT	LT6700MPDCB-2
LDVV	LT6700MPDCB-3
LDVX	LTC1540MPDD
LDWC	LTC3542EDC-1
LDWC	LTC3542IDC-1
LDWR	LT3085MPDCB
LDXQ	LT1994MPDD
LDYB	LTC6102CDD-1
LDYB	LTC6102HDD-1
LDYB	LTC6102IDD-1
LDWV	LTC3535EDD
LDXM	LTC2462CDD
LDXM	LTC2462IDD
LDXR	LT3972EDD
LDXR	LT3972IDD
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LDXT	LT3650IDD-8.2
LDYD	LTC3127EDD
LDYM	LTC3642EDD-3.3
LDYM	LTC3642IDD-3.3
LDYP	LTC3642EDD-5
LDYP	LTC3642IDD-5
LDYS	LTC3554EUD
LDYS	LTC3554IUD
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LFDQ	LTC2460IDD
LFDV	LTC3631EDD
LFDV	LTC3631IDD
LFDW	LT3682EDD
LFDW	LT3682IDD
LFDZ	LT3592HVEDDB
LFDZ	LT3592HVIDDB
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LFFD	LTC3526LBEDC-2
LFFH	LTC3619EDD
LFFH	LTC3619IDD
LFFM	LT3689EUD-5
LFFM	LT3689HUD-5
LFFM	LT3689IUD-5
LFFN	LTC3631EDD-3.3
LFFN	LTC3631IDD-3.3
LFFQ	LTC3631EDD-5
LFFQ	LTC3631IDD-5
LFFV	LTC6255CDC
LFFV	LTC6255HDC
LFFV	LTC6255IDC
LFGC	LT3050EDDB
LFGC	LT3050IDDB
LFGF	LTC2461CDD
LFGF	LTC2461IDD
LFGG	LTC2463CDD
LFGG	LTC2463IDD
LFGH	LT3755AEUD
LFGH	LT3755AIUD
LFGJ	LT3756AEUD
LFGJ	LT3756AIUD
LFGQ	LT3650EDD-4.1
LFGQ	LT3650IDD-4.1
LFGR	LT3650EDD-8.4
LFGR	LT3650IDD-8.4
LFGY	LTC3409AEDD
LFGZ	LTC5582IDD
LFHB	LTC5582IDD-1
LFHC	LT3008EDC-1.2
LFHC	LT3008IDC-1.2
LFHF	LT3008EDC-1.5
LFHF	LT3008IDC-1.5
LFHH	LT3008EDC-1.8
LFHH	LT3008IDC-1.8
LFHK	LT3008EDC-2.5
LFHK	LT3008IDC-2.5
LFHN	LT3008EDC-3.3
LFHN	LT3008IDC-3.3
LFHQ	LT3008EDC-5.0
LFHQ	LT3008IDC-5.0
LFHW	LTC2935CDC-3
LFHW	LTC2935IDC-3
LFHY	LTC2935CDC-4
LFHY	LTC2935IDC-4
LMI10	LTC2636CDE-LMI10
LMI10	LTC2636HDE-LMI10
LMI10	LTC2636IDE-LMI10
LMI12	LTC2636CDE-LMI12
LMI12	LTC2636HDE-LMI12
LMI12	LTC2636IDE-LMI12
LMX10	LTC2636CDE-LMX10
LMX10	LTC2636HDE-LMX10
LMX10	LTC2636IDE-LMX10
LMX12	LTC2636CDE-LMX12
LMX12	LTC2636HDE-LMX12
LMX12	LTC2636IDE-LMX12
LTA1	LT4351IMS
LTA2	LTC4412ES6
LTA2	LTC4412IS6
LTA3	LT6210CS6
LTA3	LT6210IS6
LTA4	LTC2920-2IMS8
LTA5	LTC3406ES5
LTA6	LTC1663-8CMS8
LTA7	LTC1663-8IMS8
LTA8	LTC1694IS5
LTA9	LTC1694-1IS5
LTAA	LT1460CCMS8-2.5
LTAAW	LT6221CMS8
LTAAZ	LTC4251-2IS6
LTAB	LT1460FCMS8-2.5
LTABA	LTC3407EMSE
LTABC	LTC4056EMS8-4.2
LTABE	LTC3251EMSE-1.5
LTABF	LTC4300A-1CMS8
LTABG	LTC4300A-1IMS8
LTABH	LTC4214-1CMS
LTABJ	LTC4214-1IMS
LTABK	LTC4214-2CMS
LTABL	LTC4214-2IMS
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LTABN	LTC6903IMS8
LTABS	LTC4257IMS8
LTABY	LTC4302CMS-2
LTABZ	LTC4302IMS-2
LTACA	LT3469ETS8
LTACB	LT6200CS6-5
LTACB	LT6200IS6-5
LTACC	LT6200CS6-10
LTACC	LT6200IS6-10
LTACF	LTC4300A-2CMS8
LTACG	LTC4300A-2IMS8
LTACH	LT3467ES6
LTACH	LT3467IS6
LTACJ	LTC1992-1CMS8
LTACK	LTC1992-5CMS8
LTACL	LTC1992-10CMS8
LTACM	LTC1992-1IMS8
LTACN	LTC1992-5IMS8
LTACP	LTC1992-10IMS8
LTACQ	LTC6910-2CTS8
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LTACQ	LTC6910-2ITS8
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LTACS	LTC6910-3CTS8
LTACS	LTC6910-3HTS8
LTACS	LTC6910-3ITS8
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LTACX	LTC2602CMS8
LTACY	LTC2602IMS8
LTACZ	LTC2612CMS8
LTADA	LTC2612IMS8
LTADB	LTC2622CMS8
LTADC	LTC2622IMS8
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LTADL	LT6700HVCS6-2
LTADL	LT6700HVHS6-2
LTADL	LT6700HVIS6-2
LTADL	LT6700IS6-2
LTADM	LT6700CS6-3
LTADM	LT6700HS6-3
LTADM	LT6700HVCS6-3
LTADM	LT6700HVHS6-3
LTADM	LT6700HVIS6-3
LTADM	LT6700IS6-3
LTADS	LT6221IMS8
LTADV	LTC1540IMS8
LTADW	LTC1541IMS8
LTADX	LTC1542IMS8
LTADY	LTC4054XES5-4.2
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LTAEC	LT3468ES5
LTAED	LTC2923CMS
LTAEE	LTC2923IMS
LTAEF	LT3010EMS8E-5
LTAEG	LTC2050CS5
LTAEG	LTC2050HS5
LTAEG	LTC2050IS5
LTAEH	LTC2050HVCS5
LTAEH	LTC2050HVHS5
LTAEH	LTC2050HVIS5
LTAEJ	LTC2050CS6
LTAEJ	LTC2050HS6
LTAEJ	LTC2050IS6
LTAEK	LTC2050HVCS6
LTAEK	LTC2050HVHS6
LTAEK	LTC2050HVIS6
LTAEM	LT6205CS5
LTAEM	LT6205HS5
LTAEM	LT6205IS5
LTAEN	LTC4411ES5
LTAES	LTC6904CMS8
LTAES	LTC6904HMS8
LTAES	LTC6904IMS8
LTAEW	LTC4057ES5-4.2
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LTAEZ	LTC2433-1IMS
LTAF	LT1460CCMS8-5
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LTAFD	LTC1403AHMSE
LTAFD	LTC1403AIMSE
LTAFE	LTC1407ACMSE
LTAFF	LTC1407AHMSE
LTAFF	LTC1407AIMSE
LTAFG	LTC1968CMS8
LTAFG	LTC1968IMS8
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LTAFJ	LT6230IS6
LTAFK	LT6230CS6-10
LTAFK	LT6230IS6-10
LTAFL	LT6233CS6
LTAFL	LT6233IS6
LTAFM	LT6233CS6-10
LTAFM	LT6233IS6-10
LTAFN	LT1803CS5
LTAFN	LT1803IS5
LTAFP	LT6220CS5
LTAFP	LT6220IS5
LTAFS	LTC5532ES6
LTAFT	LT3465AES6
LTAFV	LTC2903CS6-A1
LTAFW	LTC2903IS6-A1
LTAFX	LTC4252A-1CMS
LTAFY	LTC4252A-1IMS
LTAFZ	LTC1992-1HMS8
LTAG	LT1460FCMS8-5
LTAGA	LTC1992-2HMS8
LTAGB	LTC2054CS5
LTAGB	LTC2054HS5
LTAGB	LTC2054IS5
LTAGD	LTC2054HVCS5
LTAGD	LTC2054HVHS5
LTAGD	LTC2054HVIS5
LTAGE	LTC4252A-2CMS
LTAGF	LTC4252A-2IMS
LTAGH	LTC3406B-2ES5
LTAGJ	LTC3250ES6-1.2
LTAGL	LT3020EMS8
LTAGM	LTC3251EMSE-1.2
LTAGN	LT1933ES6
LTAGP	LT1933IS6
LTAGQ	LT3468ES5-1
LTAGR	LTC1992HMS8
LTAGU	LTC2601CMS
LTAGV	LTC2601IMS
LTAGW	LTC2601CMS8
LTAGX	LTC2601IMS8
LTAGY	LTC2601CTS8
LTAGZ	LTC2601ITS8
LTAH	LT1460CCMS8-10
LTAHA	LTC3459ES6
LTAHC	LTC3459EMS8E
LTAHD	LTC3459IMS8E
LTAHG	LT3461AES6
LTAHH	LTC6911CMS-2

TOP MARKINGS (TOP MARK TO PART NUMBER)

LTAHJ	LTC6911IMS-2
LTAHK	LTC6911CMS-1
LTAHM	LTC6911IMS-1
LTAHN	LTC3801BES6
LTAHQ	LTC4064EMSE
LTAHR	LTC1669-1CS5
LTAHS	LTC1669-2CS5
LTAHT	LTC1669-8CMS8
LTAHU	LTC1669-8IMS8
LTAHV	LTC1669CMS8
LTAHW	LTC1669CS5
LTAHX	LTC1669IMS8
LTAHY	LTC1669IS5
LTAHZ	LT3023EMSE
LTAHZ	LT3023IMSE
LTAJ	LT1460FCMS8-10
LTAJB	LT1934IS6
LTAJC	LT1934IS6-1
LTAJD	LTC2905CTS8
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LTAJG	LT3420EMS-1
LTAJH	LTC1992-5HMS8
LTAJJ	LTC1992-10HMS8
LTAJK	LTC3411AEMS
LTAJK	LTC3411AIMS
LTAJN	LTC2903CS6-B1
LTAJP	LTC2903IS6-B1
LTAJQ	LTC2903CS6-C1
LTAJR	LTC2903IS6-C1
LTAJT	LTC3426ES6
LTAJU	LT1937CES5
LTAJZ	LTC6078ACMS8
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LTAJZ	LTC6078AIMS8
LTAJZ	LTC6078CMS8
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LTB1	LT3460ES5
LTB2	LT6203CMS8
LTB3	LT6203IMS8
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LTB5	LTC6910-1CTS8
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LTB5	LTC6910-1ITS8
LTB6	LTC2920-2CMS8
LTB7	LTC1772IS6
LTB9	LT6550CMS
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LTBB	LT1490CMS8
LTBBC	LTC4304CMS
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LTBBW	LTC4301CMS8
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LTBC	LT1620CMS8
LTBCC	LT3467AES6
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LTBCF	LTC6911HMS-1
LTBCG	LTC6911HMS-2
LTBCH	LT3468ES5-2
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LTBCM	LTC2906CTS8
LTBCN	LTC2906ITS8
LTBCP	LTC2907CTS8
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LTBDQ	LTC1407CMSE
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LTBDR	LTC1407IMSE
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LTBE	LTC1541CMS8
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LTBGX	LTC1407AIMSE-1
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LTBHF	LTC4300A-3IMS8
LTBHQ	LTC4301LCMS8
LTBHQ	LTC4301LIMS8
LTBHR	LTC4412HVIS6
LTBHT	LT1615IS5-1
LTBJ	LT1394IMS8
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LTBJC	LTC6905IS5
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LTBJQ	LTC4441EMSE
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LTBKH	LT3020EMS8-1.5
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LTBKK	LT3027EMSE
LTBKN	LTC2950CTS8-1
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LTBKR	LT4431EMSE
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LTBMD	LT3027IMSE
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LTBMF	LT3014IS5
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LTBMH	LTC3803IS6-5
LTBMK	LTC3448EMS8E
LTBMN	LTC3407EMSE-1
LTBMQ	LTC3406ES5-1.2
LTBMR	LTC3406BES5-1.2
LTBMS	LTC3429BES6
LTBMT	LT1936EMS8E
LTBMV	LT6100CMS8
LTBMV	LT6100HMS8
LTBMV	LT6100IMS8
LTBMX	LTC2903CS6-D1
LTBMY	LTC2903IS6-D1
LTBMZ	LTC2903CS6-E1
LTBNB	LTC2903IS6-E1
LTBNC	LTC3803HS6
LTBNC	LTC3803IS6
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LTBND	LTC6101BCS5
LTBND	LTC6101BHS5
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LTBND	LTC6101CCS5
LTBND	LTC6101CHS5
LTBND	LTC6101CIS5
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LTBNF	LTC2950ITS8-2
LTBNH	LTC3548EMSE
LTBNH	LTC3548IMSE
LTBNP	LTC2053CMS8-SYNC
LTBNP	LTC2053HMS8-SYNC
LTBNP	LTC2053IMS8-SYNC
LTBNQ	LTC3772ETS8
LTBNW	LT1946EMS8E
LTBPB	LT1996ACMS
LTBPB	LT1996AIMS
LTBPB	LT1996CMS
LTBPB	LT1996IMS
LTBPF	LTC3803ES6-5
LTBPH	LTC6905CS5-80
LTBPH	LTC6905HS5-80
LTBPH	LTC6905IS5-80
LTBPJ	LTC6905CS5-96
LTBPJ	LTC6905HS5-96
LTBPJ	LTC6905IS5-96
LTBPK	LTC6905CS5-100
LTBPK	LTC6905HS5-100
LTBPK	LTC6905IS5-100
LTBPM	LTC6905CS5-133
LTBPM	LTC6905HS5-133
LTBPM	LTC6905IS5-133
LTBPW	LT3470ITS8
LTBPY	LTC4303CMS8
LTBPY	LTC4303IMS8
LTBQ	LTC1426CMS8
LTBQD	LT3750EMS
LTBQF	LTC4414EMS8
LTBQG	LTC4414IMS8
LTBQJ	LTC2927CTS8
LTBQJ	LTC2927ITS8
LTBQN	LT1994CMS8
LTBQN	LT1994IMS8
LTBQT	LTC3809EMSE
LTBQV	LTC3809EMSE-1
LTBQV	LTC3809IMSE-1
LTBQW	LT1947EMSE
LTBRC	LTC3499EMS8
LTBRF	LTC4440ES6-5
LTBRG	LTC4440EMS8E-5
LTBRJ	LT3485EMSE
LTBRP	LTC3405AES6-1.375
LTBRS	LT3014HVES5
LTBRS	LT3014HVIS5
LTBRV	LT1936IMS8E
LTBRY	LTC1772HS6
LTBRZ	LTC3824EMSE
LTBSB	LTC6101ACMS8
LTBSB	LTC6101AHMS8
LTBSB	LTC6101AIMS8
LTBSV	LTC3725EMSE
LTBSW	LTC3725IMSE
LTBSX	LTC6101HVACMS8
LTBSX	LTC6101HVAHMS8
LTBSX	LTC6101HVAIMS8
LTBSZ	LTC6101HVACS5
LTBSZ	LTC6101HVAHS5
LTBSZ	LTC6101HVAIS5
LTBSZ	LTC6101HVBCS5
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LTBSZ	LTC6101HVCHS5
LTBSZ	LTC6101HVCIS5
LTBT	LT1351CMS8
LTBTC	LTC2951CTS8-1
LTBTC	LTC2951ITS8-1
LTBTF	LTC2951CTS8-2
LTBTF	LTC2951ITS8-2
LTBTJ	LT3485EMSE-3
LTBTR	LTC1871IMS-7
LTBTS	LTC4308CMS8
LTBTS	LTC4308IMS8
LTBTV	LTC4307CMS8
LTBTV	LTC4307IMS8
LTBTX	LTC6907CS6
LTBTX	LTC6907HS6
LTBTX	LTC6907IS6
LTBTY	LTC3531IS6
LTBTZ	LTC3531ES6
LTBV	LTC1536CMS8
LTBVD	LT6001CMS8
LTBVD	LT6001IMS8
LTBVK	LT3485EMSE-1
LTBVM	LT3485EMSE-2
LTBVT	LT3481EMSE
LTBVT	LT3481HMSE
LTBVW	LT3481IMSE
LTBVX	LTC4412CMS8
LTBW	LTC1474CMS8
LTBW	LTC1474IMS8
LTBWB	LT1936HMS8E
LTBWF	LT3493AES6
LTBWK	LTC3531IS6-3.3
LTBWM	LTC3531ES6-3.3
LTBWN	LTC3772BETS8
LTBWX	LTC3448EMS8E-1.5
LTBWY	LTC3448EMS8E-1.8
LTBX	LTC1440CMS8
LTBX	LTC1440IMS8
LTBXC	LT3487EMSE
LTBXF	LTC2909CTS8-2.5
LTBXF	LTC2909HTS8-2.5
LTBXF	LTC2909ITS8-2.5
LTBXK	LTC1772BHS6
LTBXM	LTC1706EMS-63
LTBXS	LTC3532EMS
LTBYC	LTC6908CS6-1
LTBYC	LTC6908HS6-1
LTBYC	LTC6908IS6-1
LTBYD	LTC6908CS6-2
LTBYD	LTC6908HS6-2
LTBYD	LTC6908IS6-2
LTBYF	LT3489EMS8E
LTBYN	LT3020IMS8
LTBYP	LT3020IMS8-1.2
LTBYQ	LT3020IMS8-1.5
LTBYR	LT3020IMS8-1.8
LTBZD	LTC3548EMSE-1
LTBZF	LT1931IS5
LTBZG	LT1931AIS5
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LTBZV	LTC2909HTS8-3.3
LTBZV	LTC2909ITS8-3.3
LTBZW	LTC2909CTS8-5
LTBZW	LTC2909HTS8-5
LTBZW	LTC2909ITS8-5
LTC1	LT6550IMS
LTC2	LT6551CMS
LTC3	LT6551IMS
LTC4	LTC3406ES5-1.8
LTC5	LTC4212CMS
LTC6	LTC4212IMS
LTC7	LTC1864LACMS8
LTC7	LTC1864LAIMS8
LTC7	LTC1864LCMS8
LTC7	LTC1864LIMS8
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LTCBG	LTC3822EMSE
LTCBJ	LTC3530EMS
LTCBK	LTC3531ES6-3
LTCBM	LT3080EMS8E
LTCBY	LTC3531IS6-3
LTCBZ	LT6004CMS8
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LTCBZ	LT6004IMS8
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LTCCC	LT4356CMS
LTCCC	LT4356HMS
LTCCC	LT4356IMS
LTCCM	LTC6244CMS8
LTCCM	LTC6244HMS8
LTCCM	LTC6244IMS8
LTCD	LT1316CMS8
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LTCDN	LT6000IS6
LTCDS	LT1761ES5-1.2
LTCDS	LT1761IS5-1.2
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LTCDW	LTC2641BCMS8
LTCDW	LTC2641BIMS8
LTCDY	LTC2642ACMS
LTCDY	LTC2642AIMS
LTCDY	LTC2642BCMS
LTCDY	LTC2642BIMS
LTCE	LTC1540CMS8
LTCF	LTC1258CMS8-2.5
LTCFB	LTC3499BEMS8
LTCFC	LTC4416EMS
LTCFC	LTC4416IMS
LTCFF	LT3003EMSE
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LTCFP	LTC3872ETS8-2
LTCFT	LTC2908CTS8-C1
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LTCFY	LTC3560ES6
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LTCG	LTC1522CMS8
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LTCGC	LT6011IMS8
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LTCGF	LTC6244HVHMS8
LTCGF	LTC6244HVIMS8
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LTCGQ	LTC2858HMS-1
LTCGQ	LTC2858IMS-1
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LTCGZ	LTC3824IMSE
LTCH	LTC1623CMS8
LTCHK	LT3014BES5
LTCHK	LT3014BIS5
LTCHN	LT3014BHVES5
LTCHN	LT3014BHVIS5
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LTCJN	LTC6081CMS8
LTCJN	LTC6081HMS8
LTCJN	LTC6081IMS8
LTCJR	LTC3404IMS8
LTCJS	LTC3803ES6-3
LTCJT	LTC3803IS6-3
LTCJW	LTC2912CTS8-1
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LTCJW	LTC2912ITS8-1
LTCJX	LTC2912CTS8-2
LTCJX	LTC2912HTS8-2
LTCJX	LTC2912ITS8-2
LTCJY	LTC2912CTS8-3
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LTCJY	LTC2912ITS8-3
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LTCKG	LT6003IS5
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LTCKJ	LTC6102IMS8
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LTCKK	LTC2913IMS-1
LTCKM	LTC2913CMS-2
LTCKM	LTC2913HMS-2
LTCKM	LTC2913IMS-2
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LTCKZ	LTC6930HMS8-4.19
LTCKZ	LTC6930IMS8-4.19
LTCL	LT1636CMS8
LTCL	LT1636IMS8
LTCLB	LTC6930CMS8-5.00
LTCLB	LTC6930HMS8-5.00
LTCLB	LTC6930IMS8-5.00
LTCLC	LTC6930CMS8-7.37
LTCLC	LTC6930HMS8-7.37
LTCLC	LTC6930IMS8-7.37
LTCLD	LTC6930CMS8-8.00
LTCLD	LTC6930HMS8-8.00
LTCLD	LTC6930IMS8-8.00
LTCLF	LTC6930CMS8-8.19
LTCLF	LTC6930HMS8-8.19
LTCLF	LTC6930IMS8-8.19
LTCLP	LT3010HMS8E
LTCLQ	LT3010HMS8E-5
LTCLR	LT3502ETS8
LTCLR	LT3502ITS8
LTCLS	LT3502AETS8
LTCLS	LT3502AITS8
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LTCMC	LTC2857CMS8-1
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LTCMC	LTC2857IMS8-1
LTCMF	LTC2856CMS8-1
LTCMF	LTC2856HMS8-1
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LTCMH	LTC2856HMS8-2
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LTCMK	LTC2857CMS8-2
LTCMK	LTC2857HMS8-2
LTCMK	LTC2857IMS8-2
LTCMN	LTC6103CMS8
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LTCMN	LTC6103IMS8
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LTCMP	LTC6104HMS8
LTCMP	LTC6104IMS8
LTCMQ	LTC2858CMS-2
LTCMQ	LTC2858HMS-2
LTCMQ	LTC2858IMS-2
LTCNH	LTC3561EMS8
LTCNK	LTC2954CTS8-2
LTCNK	LTC2954ITS8-2
LTCNQ	LT3470HTS8
LTCNS	LT4356CMS-1
LTCNS	LT4356HMS-1
LTCNS	LT4356IMS-1
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LTCNY	LT3505IMS8E
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LTCPH	LTC4065ES6
LTCPJ	LTC4210-3CS6
LTCPK	LTC4210-3IS6
LTCPM	LTC4210-4CS6
LTCPN	LTC4210-4IS6
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LTCQD	LTC2850HMS8
LTCQD	LTC2850IMS8
LTCQH	LTC4080EMSE
LTCQK	LTC3419EMS
LTCQK	LTC3419IMS
LTCQP	LTC2917CMS-B1
LTCQP	LTC2917HMS-B1
LTCQP	LTC2917IMS-B1
LTCQV	LTC6652ACMS8-2.5
LTCQV	LTC6652AHMS8-2.5
LTCQV	LTC6652BCMS8-2.5
LTCQV	LTC6652BHMS8-2.5
LTCR	LTC1474CMS8-3.3
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LTCRR	LTC6240CS5
LTCRR	LTC6240HS5
LTCRR	LTC6240IS5
LTCRS	LTC6240HVCS5
LTCRS	LTC6240HVHS5
LTCRS	LTC6240HVIS5
LTCRX	LTC2852CMS
LTCRX	LTC2852HMS
LTCRX	LTC2852IMS
LTCRZ	LTC3407AEMSE
LTCRZ	LTC3407AIMSE
LTCS	LTC1474CMS8-5
LTCSN	LTC3873ETS8
LTCSP	LTC3873ETS8-5
LTCSP	LTC3873ITS8-5
LTCT	LT1671CMS8
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LTCTB	LTC6406IMS8E
LTCTD	LT6105CMS8
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LTCTJ	LTC4442IMS8E
LTCTK	LTC4442HMS8E
LTCTM	LT3480EMSE
LTCTM	LT3480IMSE
LTCTN	LT3480HMSE
LTCTV	LTC1871EMS-1
LTCTV	LTC1871IMS-1
LTCTY	LTC6087CMS8
LTCTY	LTC6087HMS8
LTCU	LT1671IMS8
LTCV	LT1634BCMS8-1.25

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LTCVD	LTC2355CMSE
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LTCVF	LTC2356CMSE-14
LTCVF	LTC2356IMSE-14
LTCVH	LTC6652AHMS8-1.25
LTCVH	LTC6652BHMS8-1.25
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LTCVK	LTC6652AHMS8-3
LTCVK	LTC6652BHMS8-3
LTCVM	LTC6652AHMS8-3.3
LTCVM	LTC6652BHMS8-3.3
LTCVN	LTC6652AHMS8-4.096
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LTCVP	LTC6652AHMS8-5
LTCVP	LTC6652BHMS8-5
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LTCVQ	LTC2915HTS8-1
LTCVQ	LTC2915ITS8-1
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LTCVX	LTC2355CMSE-12
LTCVX	LTC2355IMSE-12
LTCVY	LTC2355CMSE-14
LTCVY	LTC2355IMSE-14
LTCW	LTC1658CMS8
LTCWB	LTC2480CMS
LTCWB	LTC2480IMS
LTCWF	LTC2851CMS8
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LTCWF	LTC2851IMS8
LTCWJ	LTC3406AES5
LTCWJ	LTC3406AIS5
LTCWK	LT6106CS5
LTCWK	LT6106HS5
LTCWK	LT6106IS5
LTCWN	LTC2356CMSE-12
LTCWN	LTC2356IMSE-12
LTCWX	LTC3419EMS-1
LTCWX	LTC3419IMS-1
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LTCWY	LTC4151IMS
LTCX	LTC1517CS5-5
LTCXB	LTC4151CMS-1
LTCXB	LTC4151IMS-1
LTCXD	LTC4357CMS8
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LTCXG	LTC3404MPMS8
LTCXK	LTC2366CS6
LTCXK	LTC2366HS6
LTCXK	LTC2366IS6
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LTCXS	LTC1871HMS
LTCXX	LT1965EMS8E
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LTCXZ	LTC3406ABES5
LTCY	LT1638CMS8
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LTCZR	LTC2641CMS8-14
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LTCZS	LTC2641ACMS8-16
LTCZS	LTC2641AIMS8-16
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LTCZX	LTC2642CMS-12
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LTCZY	LTC2642IMS-14
LTCZZ	LTC2642ACMS-16
LTCZZ	LTC2642AIMS-16
LTCZZ	LTC2642CMS-16
LTCZZ	LTC2642IMS-16
LTD2	LTC1860LCMS8
LTD3	LTC1860LIMS8
LTD4	LTC1861LCMS
LTD5	LTC1861LIMS
LTD6	LTC3406ES5-1.5
LTD7	LTC2920-1CS5
LTD8	LTC2920-1IS5
LTDA	LTC1690CMS8
LTDB	LTC1622CMS8
LTDBB	LTC3406ABES5-2
LTDBF	LTC4444EMS8E
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LTDBN	LTC4307CMS8-1
LTDBN	LTC4307IMS8-1
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LTDBW	LTC4081EMSE
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LTDCB	LTC2365ITS8
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LTDCC	LTC2365HS6
LTDCC	LTC2365IS6
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LTDCG	LTC2453ITS8
LTDCH	LT1761MPS5-1.8
LTDCJ	LT3580EMS8E
LTDCJ	LT3580IMS8E
LTDCR	LT3592EMSE
LTDCR	LT3592IMSE
LTDCT	LTC2918CMS-B1
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LTDDJ	LTC3407AIMSE-2
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LTDF	LT1634BCMS8-2.5
LTDFZ	LT3693EMSE
LTDFZ	LT3693HMSE
LTDFZ	LT3693IMSE
LTDGD	LTC2917CMS-A1
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LTDGD	LTC2917IMS-A1
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LTDGS	LTC2919HMS-2.5
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LTDGX	LTC3805HMSE-5
LTDGX	LTC3805IMSE-5
LTDGZ	LT6107MPS5
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LTDH	LT1634BCMS8-4.096
LTDHF	LTC2631ACTS8-LM12
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LTDHV	LTC2640AITS8-LM12
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LTDHW	LTC2640AITS8-LZ12
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LTDHX	LTC2640AITS8-HM12
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LTDJH	LTC2640HTS8-HM8
LTDJH	LTC2640ITS8-HM8
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LTDJJ	LTC2640HTS8-HZ8
LTDJJ	LTC2640ITS8-HZ8
LTDJP	LT1762MPMS8-5
LTDJQ	LT4356CMS-2
LTDJQ	LT4356HMS-2
LTDJQ	LT4356IMS-2
LTDJS	LT1912EMSE
LTDK	LT1634BCMS8-5
LTDKK	LT5581IMS8
LTDKN	LTC6405CMS8E
LTDKN	LTC6405IMS8E
LTDKR	LTC2934CTS8-1
LTDKR	LTC2934ITS8-1
LTDKS	LTC2934CTS8-2
LTDKS	LTC2934ITS8-2
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LTDKX	LT1965IMS8E-1.5
LTDKZ	LT1965EMS8E-1.8
LTDKZ	LT1965IMS8E-1.8
LTDMC	LT1965EMS8E-2.5
LTDMC	LT1965IMS8E-2.5
LTDMF	LT1965EMS8E-3.3
LTDMF	LT1965IMS8E-3.3
LTDMN	LT6703HVCS5-2
LTDMN	LT6703HVHS5-2
LTDMN	LT6703HVIS5-2
LTDMP	LT6703HVCS5-3
LTDMP	LT6703HVHS5-3
LTDMP	LT6703HVIS5-3
LTDMT	LTC2919CMS-3.3
LTDMT	LTC2919HMS-3.3
LTDMT	LTC2919IMS-3.3
LTDMV	LTC2919CMS-5
LTDMV	LTC2919HMS-5
LTDMV	LTC2919IMS-5
LTDN	LT1389BCMS8-1.25
LTDNG	LTC6084CMS8
LTDNG	LTC6084HMS8
LTDNS	LTC2451CTS8
LTDNS	LTC2451ITS8
LTDNW	LTC4224CMS-2
LTDNW	LTC4224IMS-2
LTDPK	LTC2452CTS8
LTDPK	LTC2452ITS8
LTDPN	LT3080EMS8E-1
LTDPW	LTC2935CTS8-1
LTDPW	LTC2935ITS8-1
LTDPY	LTC4444EMS8E-5
LTDPY	LTC4444IMS8E-5
LTDPZ	LTC4446EMS8E
LTDPZ	LTC4446IMS8E
LTDQB	LTC2935CTS8-2
LTDQB	LTC2935ITS8-2
LTDQP	LT3085EMS8E
LTDQP	LT3085IMS8E
LTDS	LT1720CMS8
LTDSQ	LTC2990CMS
LTDSQ	LTC2990IMS
LTDSX	LT3008ETS8
LTDSX	LT3008ITS8
LTDT	LT1610CMS8
LTDTF	LT3060ETS8
LTDTF	LT3060ITS8
LTDTH	LTC3642EMS8E
LTDTH	LTC3642IMS8E
LTDTR	LT3502EMS
LTDTR	LT3502IMS
LTDTS	LT3502AEMS
LTDTS	LT3502AIMS
LTDTV	LTC4224CMS-1
LTDTV	LTC4224IMS-1
LTDU	LT1521CMS8-3.3
LTDV	LTC1661CMS8
LTDVF	LT3594ETS8
LTDVF	LT3594ITS8
LTDVJ	LTC3565EMSE
LTDVJ	LTC3565IMSE
LTDVW	LTC6905MPS5
LTDVY	LTC1540HMS8
LTDVZ	LTC1540MPMS8
LTDW	LTC1661IMS8
LTDWD	LTC3542ES6-1
LTDWD	LTC3542IS6-1
LTDWQ	LT3085MPMS8E
LTDX	LTC1484CMS8
LTDXS	LT3972EMSE
LTDXS	LT3972HMSE
LTDXS	LT3972IMSE
LTDXZ	LTC6102CMS8-1
LTDXZ	LTC6102HMS8-1
LTDXZ	LTC6102IMS8-1
LTDY	LT1396CMS8
LTDYF	LTC3127EMSE
LTDYN	LTC3642EMS8E-3.3
LTDYN	LTC3642IMS8E-3.3
LTDYQ	LTC3642EMS8E-5
LTDYQ	LTC3642IMS8E-5
LTDYV	LT3082ETS8
LTDYV	LT3082ITS8
LTDYX	LT3757EMSE
LTDYX	LT3757IMSE
LTDZ	LTC1710CMS8
LTE2	LTC3406BES5
LTE3	LTC3406BES5-1.5
LTE4	LTC3406BES5-1.8
LTE5	LT1819IMS8
LTE6	LTC1734LES6-4.2
LTE7	LT1819CMS8
LTE8	LTC1844ES5-SD
LTE9	LTC1844ES5-BYP
LTEB	LTC1693-3CMS8
LTEC	LTC1502CMS8-3.3
LTED	LT1613CS5
LTEE	LTC1694CS5
LTEF	LTC1517CS5-3.3
LTEG	LTC1550LCMS8
LTEH	LTC1550LCMS8-4.1
LTEK	LTC1326CMS8-2.5
LTEL	LTC1258CMS8
LTEM	LTC1258CMS8-5
LTEN	LTC1258CMS8-4.1
LTEP	LTC1663CS5
LTEP	LTC1663ES5
LTEQ	LTC1663CMS8
LTER	LTC1682CMS8
LTES	LT1611CS5
LTEU	LTC1258CMS8-3
LTEZ	LT1521CMS8
LTF1	LTC1844ES5-1.5
LTF2	LTC1844ES5-1.8
LTF3	LTC1844ES5-2.5
LTF4	LTC1844ES5-3.3
LTF5	LTC4210-1IS6
LTF6	LTC4210-2IS6
LTF7	LT1818CS5
LTF7	LT1818IS5
LTF8	LT1934ES6-1
LTF9	LTC4440EMS8E
LTFA	LT1521CMS8-5
LTFB	LT1521CMS8-3
LTFDB	LT3970EMS
LTFDB	LT3970HMS
LTFDB	LT3970IMS
LTFDD	LTC3824MPMSE
LTFDF	LTC4444MPMS8E-5
LTFDT	LTC3631EMS8E
LTFDT	LTC3631IMS8E
LTFDX	LTC6904MPMS8
LTFF	LT1494CMS8
LTFG	LT1494IMS8
LTFFB	LT3592HVEMSE
LTFFB	LT3592HVHMSE
LTFFB	LT3592HVIMSE
LTFFF	LTC2054MPS5
LTFFG	LTC2054HVMPS5
LTFFJ	LTC3619EMSE
LTFFJ	LTC3619IMSE
LTFFK	LT4356CMS-3
LTFFK	LT4356HMS-3
LTFFK	LT4356IMS-3
LTFFP	LTC3631EMS8E-3.3
LTFFP	LTC3631IMS8E-3.3
LTFFR	LTC3631EMS8E-5
LTFFR	LTC3631IMS8E-5
LTFGD	LT4356MPMS-1
LTFH	LT1672CMS8
LTFHD	LT3008ETS8-1.2
LTFHD	LT3008ITS8-1.2
LTFHG	LT3008ETS8-1.5
LTFHG	LT3008ITS8-1.5
LTFHJ	LT3008ETS8-1.8
LTFHJ	LT3008ITS8-1.8
LTFHM	LT3008ETS8-2.5
LTFHM	LT3008ITS8-2.5
LTFHP	LT3008ETS8-3.3
LTFHP	LT3008ITS8-3.3
LTFHR	LT3008ETS8-5.0
LTFHR	LT3008ITS8-5.0
LTFHV	LTC2935CTS8-3
LTFHV	LTC2935ITS8-3
LTFHX	LTC2935CTS8-4
LTFHX	LTC2935ITS8-4
LTFJ	LT1672IMS8
LTFL	LTC1199CMS8
LTFM	LTC1261LCMS8
LTFN	LTC1261LCMS8-4
LTFP	LTC1261LCMS8-4.5
LTFQ	LTC1551LCMS8
LTFR	LTC1551LCMS8-2
LTFS	LTC1551LCMS8-2.5
LTFT	LTC1551LCMS8-4.1
LTFV	LTC1550LCMS8-2.5
LTFW	LTC1658IMS8
LTFX	LTC1503CMS8-1.8
LTFY	LTC1503IMS8-1.8
LTFZ	LTC1503CMS
LTG2	LT3464ETS8
LTG4	LTC1871EMS-7
LTG5	LTC4056ETS8-4.2
LTG6	LT6202CS5
LTG6	LT6202IS5
LTGA	LTC1503IMS
LTGC	LT1761ES5-BYP
LTGC	LT1761IS5-BYP
LTGD	LT1761ES5-2.5
LTGD	LT1761IS5-2.5
LTGE	LT1761ES5-3
LTGE	LT1761IS5-3
LTGF	LT1761ES5-3.3
LTGF	LT1761IS5-3.3
LTGG	LT1761ES5-5
LTGG	LT1761IS5-5
LTGH	LT1761ES5-SD
LTGH	LT1761IS5-SD
LTGJ	LTC1754IS6-5
LTGK	LTC1754ES6-3.3
LTGL	LTC1754IS6-3.3
LTGM	LT1787CMS8
LTGN	LT1787IMS8
LTGP	LT5504EMS8
LTGR	LTC1550LCMS8-2
LTGS	LT1610IMS8
LTGT	LTC1682CMS8-3.3
LTGU	LTC1682IMS8-3.3
LTGV	LTC1682CMS8-5
LTGW	LTC1682IMS8-5
LTGX	LT1675CMS8-1
LTGY	LT1675IMS8-1
LTGZ	LT1813DMS8
LTH2	LT3465ES6
LTH3	LT6206CMS8
LTH4	LT6206IMS8
LTH5	LTC3429ES6
LTH6	LTC4257CMS8
LTH7	LTC4054ES5-4.2
LTH8	LT1460HCS3-2.5
LTH8	LT1460JCS3-2.5
LTH8	LT1460KCS3-2.5
LTH9	LT1460HCS3-3
LTH9	LT1460JCS3-3
LTH9	LT1460KCS3-3
LTHA	LT1317CMS8
LTHB	LT1317BCMS8
LTHC	LT1619EMS8
LTHD	LTC1734ES6-4.1
LTHE	LTC1694-1CS5
LTHF	LT1762EMS8
LTHG	LT1762EMS8-2.5
LTHH	LT1762EMS8-3
LTHJ	LT1762EMS8-3.3
LTHK	LT1762EMS8-5
LTHL	LTC1502IMS8-3.3
LTHM	LTC1682IMS8
LTHN	LTC1503CMS8-2
LTHQ	LTC1864ACMS8
LTHQ	LTC1864AHMS8

TOP MARKINGS (TOP MARK TO PART NUMBER)

LTHQ	LTC1864AIMS8
LTHQ	LTC1864CMS8
LTHQ	LTC1864HMS8
LTHQ	LTC1864IMS8
LTHS	LTC1865ACMS
LTHS	LTC1865AHMS
LTHS	LTC1865AIMS
LTHS	LTC1865CMS
LTHS	LTC1865HMS
LTHS	LTC1865IMS
LTHU	LTC1647-1CMS8
LTHV	LTC1647-2CMS8
LTHW	LT1719CS6
LTHX	LTC1727EMS8-5
LTHY	LTC1727EMS8-2.5
LTHZ	LTC1728ES5-5
LTHZ	LTC1728HS5-5
LTIA	LTC1728ES5-2.5
LTIB	LT1307BCMS8
LTIC	LT1307CMS8
LTID	LT1614CMS8
LTIE	LT1637CMS8
LTIE	LT1637IMS8
LTIG	LTC1757-2EMS
LTIH	LTC1757-1EMS8
LTIJ	LTC1758CMS
LTIK	LTC1758CMS8
LTIL	LTC1772CS6
LTIM	LTC1772ES6
LTIQ	LTC2050CMS8
LTIR	LTC2050IMS8
LTIS	LT1782CS6
LTIT	LT1782IS6
LTIU	LT1783CS6
LTIV	LT1783IS6
LTIW	LT1784CS6
LTIX	LT1784IS6
LTIY	LTC1695CS5
LTIZ	LT1615ES5
LTJ1	LT1460HCS3-3.3
LTJ1	LT1460JCS3-3.3
LTJ1	LT1460KCS3-3.3
LTJ2	LT1460HCS3-5
LTJ2	LT1460JCS3-5
LTJ2	LT1460KCS3-5
LTJ3	LT1460HCS3-10
LTJ3	LT1460JCS3-10
LTJ3	LT1460KCS3-10
LTJ4	LTC1865LACMS
LTJ4	LTC1865LAIMS
LTJ4	LTC1865LCMS
LTJ4	LTC1865LIMS
LTJ8	LT1937BES5
LTJ9	LTC6901CMS
LTJA	LTC1197LIMS8
LTJB	LT1614IMS8
LTJC	LT1949EMS8
LTJD	LT1784CS5
LTJE	LT1761ES5-2
LTJE	LT1761IS5-2
LTJF	LT1719IS6
LTJG	LTC1729CMS8-8.4
LTJH	LTC1729CMS8-4.2
LTJJ	LTC1663IMS8
LTJK	LTC1731EMS8-4.1
LTJM	LT1761ES5-1.8
LTJM	LT1761IS5-1.8
LTJY	LTC2053IMS8
LTJZ	LT6200CS6
LTJZ	LT6200IS6
LTK1	LTC6901IMS
LTK2	LTC6902CMS
LTK3	LTC6902IMS
LTK4	LT6201CMS8E
LTK5	LT6201IMS8E
LTK6	LTC4251-2CS6
LTK7	LT6700CS6-1
LTK7	LT6700HS6-1
LTK7	LT6700HVCS6-1
LTK7	LT6700HVHS6-1
LTK7	LT6700HVIS6-1
LTK7	LT6700IS6-1
LTK8	LTC4410ES6
LTK9	LTC1706EMS-61
LTKA	LT1617ES5-1
LTKB	LTC1662CMS8
LTKC	LTC1662IMS8
LTKD	LTC1771EMS8
LTKE	LTC1771IMS8
LTKF	LT1617ES5
LTKG	LTC1701ES5
LTKH	LT1615ES5-1
LTKJ	LT1787HVCMS8
LTKK	LT1787HVIMS8
LTKL	LTC1751EMS8
LTKM	LTC1751EMS8-3
LTKN	LTC1751EMS8-3.3
LTKP	LTC1751EMS8-5
LTKQ	LTC1731EMS8-4.2
LTKR	LTC3404EMS8
LTKS	LT1930ES5
LTKT	LTC1928ES6-5
LTKU	LTC1663IS5
LTKV	LTC1197CMS8
LTKW	LTC1197IMS8
LTKX	LTC1986ES6
LTKY	LT1809CS6
LTKZ	LTC1726EMS8-2.5
LTLA	LTC1726EMS8-5
LTLB	LT1761ES5-2.8
LTLB	LT1761IS5-2.8
LTLC	LTC1700EMS
LTLD	LT1782CS5
LTLE	LT1782IS5
LTLF	LT1783CS5
LTLG	LT1783IS5
LTLH	LT1812CS5
LTLJ	LT1812IS5
LTLK	LT1812CS6
LTLL	LT1812IS6
LTLM	LT1797CS5
LTLN	LT1797CS6
LTLP	LTC1779ES6
LTLR	LTC1706EMS-81
LTLS	LT1767EMS8
LTLT	LTC1696ES6
LTLU	LTC1877EMS8
LTLV	LTC1877IMS8
LTLW	LTC1754ES6-5
LTLX	LTC1733EMSE
LTLY	LTC1729CMS8-4.1
LTLZ	LTC1729CMS8-8.2
LTMA	LT1395CS5
LTMB	LTC2401CMS
LTMC	LTC2401IMS
LTMD	LTC2402CMS
LTME	LTC2402IMS
LTMF	LT1395CS6
LTMJ	LTC1706EMS-82
LTMK	LTC1872ES6
LTML	LT1962EMS8
LTMM	LT1962IMS8
LTMN	LTC2051CMS8
LTMP	LTC2051IMS8
LTMQ	LTC2051CMS10
LTMR	LTC2051IMS10
LTMS	LT1612EMS8
LTMT	LT1761ES5-1.5
LTMT	LT1761IS5-1.5
LTMU	LTC1536IMS8
LTMV	LTC1773EMS
LTMY	LTC1911EMS8-1.5
LTNB	LT1616ES6
LTNC	LT1616IS6
LTND	LTC1799CS5
LTND	LTC1799HS5
LTNE	LTC1799IS5
LTNG	LT1490ACMS8
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LTNJ	LTC1732EMS-4
LTNK	LT1806CS6
LTNL	LT1806IS6
LTNM	LTC1985ES5-1.8
LTNN	LTC2411-1IMS
LTNP	LTC3440EMS
LTNQ	LT1816IMS8
LTNR	LT1948EMS8
LTNS	LTC2411CMS
LTNT	LTC2411IMS
LTNU	LTC1911EMS8-1.8
LTNV	LTC3200EMS8
LTNX	LTC1878EMS8
LTPC	LTC1983ES6-3
LTPD	LTC1983EMS8-3
LTPE	LTC1731EMS8-8.4
LTPF	LTC1982ES6
LTPG	LTC3401EMS
LTPH	LTC1728ES5-1.8
LTPJ	LTC2051HVCMS8
LTPK	LTC2051HVIMS8
LTPL	LTC1757A-1EMS8
LTPM	LTC1757A-2EMS
LTPN	LT1990CMS8
LTPP	LT1990IMS8
LTPQ	LT1962EMS8-3
LTPR	LT1962EMS8-5
LTPS	LT1962EMS8-3.3
LTPT	LT1962EMS8-2.5
LTPU	LT1490AIMS8
LTPV	LTC1699EMS8-80
LTPW	LTC1699EMS8-81
LTPZ	LT1790ACS6-2.5
LTPZ	LT1790AIS6-2.5
LTPZ	LT1790BCS6-2.5
LTPZ	LT1790BIS6-2.5
LTQA	LT1790ACS6-3
LTQA	LT1790AIS6-3
LTQA	LT1790BCS6-3
LTQA	LT1790BIS6-3
LTQB	LT1790ACS6-4.096
LTQB	LT1790AIS6-4.096
LTQB	LT1790BCS6-4.096
LTQB	LT1790BIS6-4.096
LTQC	LT1790ACS6-5
LTQC	LT1790AIS6-5
LTQC	LT1790BCS6-5
LTQC	LT1790BIS6-5
LTQD	LT1991ACMS
LTQD	LT1991AIMS
LTQD	LT1991CMS
LTQD	LT1991HMS
LTQD	LT1991IMS
LTQK	LTC1844ES5-2.8
LTQM	LTC3423EMS
LTQN	LTC3424EMS
LTQP	LTC4301-1CMS
LTQP	LTC4301-1IMS
LTQR	LTC2490CS6
LTQS	LTC2490IS6
LTQT	LTC3411EMS
LTQT	LTC3411IMS
LTQU	LTC4251-1CS6
LTQV	LTC4251-1IS6
LTQW	LTC4150CMS
LTQW	LTC4150IMS
LTQX	LT1949-1EMS8
LTQY	LT1961EMS8E
LTQY	LT1961IMS8E
LTQZ	LT1009CMS8
LTQZ	LT1009IMS8
LTRA	LT1931ES5
LTRB	LTC2051HVCMS10
LTRC	LTC2051HVIMS10
LTRD	LT1713CMS8
LTRF	LT1810CMS8
LTRG	LTC1734ES6-4.2
LTRH	LTC1957-1EMS8
LTRJ	LTC1957-2EMS
LTRK	LT1490AHMS8
LTRL	LT1946-2EMS8
LTRM	LT1946-2CMS8
LTRN	LT1800CS5
LTRP	LT1800IS5
LTRQ	LTC4252-1IMS8
LTRR	LTC4252-2IMS8
LTRS	LTC4252-1IMS
LTRT	LTC4252-2IMS
LTRW	LTC5505-2ES5
LTRX	LT1935ES5
LTRY	LT1936CS5
LTRZ	LT1310EMSE
LTSA	LTC1663-1CS5
LTSB	LTC1663-2CS5
LTSC	LTC4211CMS8
LTSD	LTC4211IMS8
LTSF	LTC1981ES5
LTSG	LTC1693-5CMS8
LTSH	LTC3200ES6-5
LTSK	LTC3402EMS
LTSL	LTC1758-1EMS8
LTSM	LTC1758-2EMS
LTSN	LT1784IS5
LTSP	LT1931AES5
LTSQ	LT1930AES5
LTST	LT1932ES6
LTSU	LTC4211CMS
LTSV	LTC4211IMS
LTSW	LTC1731EMS8-8.2
LTSX	LTC1871EMS
LTSZ	LT1962EMS8-1.5
LTTA	LT1962EMS8-1.8
LTTB	LTC1699EMS8-82
LTTC	LT1711CMS8
LTTD	LT1711IMS8
LTTE	LTC1517ES5-3.3
LTTF	LTC1517ES5-5
LTTG	LTC1966CMS8
LTTH	LTC1966IMS8
LTTJ	LTC1967CMS8
LTTJ	LTC1967IMS8
LTTL	LT1797IS5
LTTM	LT1797IS6
LTTN	LT1969CMS
LTTP	LT1969IMS
LTTQ	LT1810IMS8
LTTR	LT1944EMS
LTTS	LT1945EMS
LTTS	LT1945IMS
LTTT	LT1807CMS8
LTTU	LT1944-1EMS
LTTV	LT1807IMS8
LTTW	LTC4050EMS-4.1
LTTX	LTC4050EMS-4.2
LTTY	LTC1998CS6
LTTY	LTC1998IS6
LTUA	LTC1732EMS-4.2
LTUB	LTC4300-1CMS8
LTUC	LTC4300-1IMS8
LTUD	LTC1701BES5
LTUE	LT1947EMS
LTUF	LT1809IS6
LTUG	LT1946EMS8
LTUH	LTC1326IMS8
LTUJ	LTC1326IMS8-2.5
LTUK	LT1713IMS8
LTUL	LT1815CS6
LTUM	LT1880CS5
LTUN	LTC3400BES6
LTUP	LT1815CS5
LTUQ	LTC4251CS6
LTUR	LTC4251IS6
LTUS	LT4352CMS8
LTUT	LT4352IMS8
LTUU	LT4352CMS10
LTUU	LT4352IMS10
LTUX	LTC2421CMS
LTUY	LTC2421IMS
LTUZ	LTC2422CMS
LTVA	LTC2422IMS
LTVB	LTC3201EMS
LTVC	LT1815IS5
LTVD	LT1815IS6
LTVF	LTC2051HMS8
LTVH	LTC2051HVHMS8
LTVJ	LTC4300-2CMS8
LTVK	LTC4300-2IMS8
LTVQ	LT1715CMS
LTVS	LTC1983CS6-3
LTVT	LTC2053CMS8
LTVU	LTC1772BES6
LTVU	LTC1772BIS6
LTVV	LT1715HMS
LTVV	LT1715IMS
LTVW	LT1880IS5
LTVX	LT1964ES5-SD
LTVX	LT1964IS5-SD
LTVY	LT1964ES5-BYP
LTVY	LT1964IS5-BYP
LTVZ	LT1964ES5-5
LTVZ	LT1964IS5-5
LTWA	LT1816CMS8
LTWB	LTC1199IMS8
LTWC	LTC1199LIMS8
LTWD	LT1767EMS8-2.5
LTWE	LT1767EMS8-3.3
LTWF	LT1767EMS8-5
LTWG	LT1767EMS8-1.8
LTWH	LT1567CMS8
LTWJ	LT1567IMS8
LTWK	LTC3400ES6
LTWL	LTC3202EMS
LTWM	LTC4252-1CMS8
LTWN	LTC4252-1CMS
LTWP	LTC4252-2CMS8
LTWQ	LTC4252-2CMS
LTWR	LTC1860CMS8
LTWS	LTC1860HMS8
LTWS	LTC1860IMS8
LTWT	LTC1861CMS
LTWU	LTC1861HMS
LTWU	LTC1861IMS
LTWV	LTC2411-1CMS
LTWW	LTC1732EMS-8.4
LTWX	LTC1983CS6-5
LTWZ	LTC4400-1ES6
LTXA	LTC4401-1ES6
LTXB	LTC4400-2EMS8
LTXC	LTC4401-2EMS8
LTXD	LTC2431CMS
LTXE	LTC2431IMS
LTXF	LTC4402-1EMS8
LTXG	LTC4403-1EMS8
LTXH	LTC4402-2EMS
LTXJ	LTC4403-2EMS
LTXK	LT1782HS5
LTXL	LT1782HS6
LTXM	LTC1442IMS8
LTXN	LTC3700EMS
LTXP	LT1934ES6
LTXQ	LTC3405ES6
LTXR	LT1783HS5
LTXS	LT1783HS6
LTXT	LT1790ACS6-1.25
LTXT	LT1790AIS6-1.25
LTXT	LT1790BCS6-1.25
LTXT	LT1790BIS6-1.25
LTXU	LT1790ACS6-2.048
LTXU	LT1790AIS6-2.048
LTXU	LT1790BCS6-2.048
LTXU	LT1790BIS6-2.048
LTXV	LTC5505-1ES5
LTXW	LT1790ACS6-3.3
LTXW	LT1790AIS6-3.3
LTXW	LT1790BCS6-3.3
LTXW	LT1790BIS6-3.3
LTXX	LT1816AIMS
LTXY	LTC1872BES6
LTXZ	LT1615IS5
LTYA	LT1816ACMS
LTYB	LTC1983ES6-5
LTYC	LT1723CMS8
LTYD	LT1716CS5
LTYD	LT1716HS5
LTYD	LT1716IS5
LTYF	LTC4302CMS-1
LTYG	LTC4302IMS-1
LTYH	LT3420EMS
LTYJ	LTC2900-1CMS
LTYK	LTC2900-1IMS
LTYL	LTC2900-2CMS
LTYM	LTC2900-2IMS
LTYN	LT1937ES5
LTYP	LTC1728ES5-3.3
LTYQ	LTC1706EMS-85
LTYR	LT1801CMS8
LTYS	LT1801IMS8
LTYT	LTC3704EMS
LTYU	LTC1992CMS8
LTYV	LTC1992-2CMS8
LTYW	LTC4210-1CS6
LTYX	LTC4210-2CS6
LTYY	LTC4052EMS8E-4.2
LTYZ	LT1946AEMS8E
LTZA	LT1723IMS8
LTZB	LT1722CS5
LTZB	LT1722IS5
LTZC	LTC1992IMS8
LTZD	LTC1992-2IMS8
LTZE	LTC3250ES6-1.5
LTZF	LT3010EMS8E
LTZG	LT1767EMS8E
LTZH	LT1767EMS8E-1.8
LTZJ	LT1767EMS8E-2.5
LTZK	LT1767EMS8E-3.3
LTZL	LT1767EMS8E-5
LTZM	LTC6900CS5
LTZM	LTC6900IS5
LTZP	LTC3405AES6-1.8
LTZQ	LTC3405AES6-1.5
LTZR	LTC1697EMS
LTZS	LTC4053EMSE-4.1
LTZT	LTC4053EMSE-4.2
LTZU	LTC1921IMS8
LTZV	LTC1921CMS8
LTZW	LTC3405AES6
LTZX	LTC5507ES6
LTZY	LTC4440ES6
LTZZ	LT4351CMS
OP07	OP07CS8
OP27G	OP27GS8
OP37G	OP37GS8

Data Conversion Values

NUMBER OF BITS	NUMBER COUNTS	PPM	BIT WEIGHT	THEORETICAL SNR (dB)	10V LSB	5V LSB	3V LSB	2.5V LSB	1.8V LSB
6	64	15,625	15.6×10^{-3}	37.86	156mV	78.1mV	46.9mV	39.1mV	28.1mV
8	256	3,906	3.91×10^{-3}	49.96	39.1mV	19.5mV	11.7mV	9.77mV	7.03mV
10	1024	977	977×10^{-6}	61.96	9.77mV	4.88mV	2.93mV	2.44mV	1.76mV
12	4096	244	244×10^{-6}	73.96	2.44mV	1.22mV	732µV	610µV	439µV
14	16,384	61	61.0×10^{-6}	86.06	610µV	305µV	183µV	153µV	110µV
16	65,536	15	15.3×10^{-6}	98.06	153µV	76.3µV	45.8µV	38.1µV	27.5µV
18	262,144	3.8	3.81×10^{-6}	110.16	38.1µV	19.1µV	11.4µV	9.54µV	6.87µV
20	1,048,576	0.95	954×10^{-9}	122.16	9.54µV	4.77µV	2.86µV	2.38µV	1.72µV
24	16,777,216	0.06	59.6×10^{-9}	146.24	596nV	298nV	179nV	149nV	107nV

Standard 1% Resistor Values

10.0	23.2	53.6	124	287	665	1.54k	3.57k	8.25k	19.1k	44.2k
10.2	23.7	54.9	127	294	681	1.58k	3.65k	8.45k	19.6k	45.3k
10.5	24.3	56.2	130	301	698	1.62k	3.74k	8.66k	20.0k	46.4k
10.7	24.9	57.6	133	309	715	1.65k	3.83k	8.87k	20.5k	47.5k
11.0	25.5	59.0	137	316	732	1.69k	3.92k	9.09k	21.0k	48.7k
11.3	26.1	60.4	140	324	750	1.74k	4.02k	9.31k	21.5k	49.9k
11.5	26.7	61.9	143	332	768	1.78k	4.12k	9.53k	22.1k	51.1k
11.8	27.4	63.4	147	340	787	1.82k	4.22k	9.76k	22.6k	52.3k
12.1	28.0	64.9	150	348	806	1.87k	4.32k	10.0k	23.2k	53.6k
12.4	28.7	66.5	154	357	825	1.91k	4.42k	10.2k	23.7k	54.9k
12.7	29.4	68.1	158	365	845	1.96k	4.53k	10.5k	24.3k	56.2k
13.0	30.1	69.8	162	374	866	2.00k	4.64k	10.7k	24.9k	57.6k
13.3	30.9	71.5	165	383	887	2.05k	4.75k	11.0k	25.5k	59.0k
13.7	31.6	73.2	169	392	909	2.10k	4.87k	11.3k	26.1k	60.4k
14.0	32.4	75.0	174	402	931	2.15k	4.99k	11.5k	26.7k	61.9k
14.3	33.2	76.8	178	412	953	2.21k	5.11k	11.8k	27.4k	63.4k
14.7	34.0	78.7	182	422	976	2.26k	5.23k	12.1k	28.0k	64.9k
15.0	34.8	80.6	187	432	1.00k	2.32k	5.36k	12.4k	28.7k	66.5k
15.4	35.7	82.5	191	442	1.02k	2.37k	5.49k	12.7k	29.4k	68.1k
15.8	36.5	84.5	196	453	1.05k	2.43k	5.62k	13.0k	30.1k	69.8k
16.2	37.4	86.6	200	464	1.07k	2.49k	5.76k	13.3k	30.9k	71.5k
16.5	38.3	88.7	205	475	1.10k	2.55k	5.90k	13.7k	31.6k	73.2k
16.9	39.2	90.9	210	487	1.13k	2.61k	6.04k	14.0k	32.4k	75.0k
17.4	40.2	93.1	215	499	1.15k	2.67k	6.19k	14.3k	33.2k	76.8k
17.8	41.2	95.3	221	511	1.18k	2.74k	6.34k	14.7k	34.0k	78.7k
18.2	42.2	97.6	226	523	1.21k	2.80k	6.49k	15.0k	34.8k	80.6k
18.7	43.2	100	232	536	1.24k	2.87k	6.65k	15.4k	35.7k	82.5k
19.1	44.2	102	237	549	1.27k	2.94k	6.81k	15.8k	36.5k	84.5k
19.6	45.3	105	243	562	1.30k	3.01k	6.98k	16.2k	37.4k	86.6k
20.0	46.4	107	249	576	1.33k	3.09k	7.15k	16.5k	38.3k	88.7k
20.5	47.5	110	255	590	1.37k	3.16k	7.32k	16.9k	39.2k	90.9k
21.0	48.7	113	261	604	1.40k	3.24k	7.50k	17.4k	40.2k	93.1k
21.5	49.9	115	267	619	1.43k	3.32k	7.68k	17.8k	41.2k	95.3k
22.1	51.1	118	274	634	1.47k	3.40k	7.87k	18.2k	42.2k	97.6k
22.6	52.3	121	280	649	1.50k	3.48k	8.06k	18.7k	43.2k	100.0k

Standard 5% Resistor Values

10	75	560	4.3k	33k	240k
11	82	620	4.7k	36k	270k
12	91	680	5.1k	39k	300k
13	100	750	5.6k	43k	330k
15	110	820	6.2k	47k	360k
16	120	910	6.8k	51k	390k
18	130	1.0k	7.5k	56k	430k
20	150	1.1k	8.2k	62k	470k
22	160	1.2k	9.1k	68k	510k
24	180	1.3k	10k	75k	560k
27	200	1.5k	11k	82k	620k
30	220	1.6k	12k	91k	680k
33	240	1.8k	13k	100k	750k
36	270	2.0k	15k	110k	820k
39	300	2.2k	16k	120k	910k
43	330	2.4k	18k	130k	1.0M
47	360	2.7k	20k	150k	
51	390	3.0k	22k	160k	
56	430	3.3k	24k	180k	
62	470	3.6k	27k	200k	
68	510	3.9k	30k	220k	

COMPANY	PHONE NUMBER	WWW ADDRESS	INDUCTORS and MAGNETIC CORES: Power	Transformer	Custom	Common Mode	Off-Line	Current Sense	Ferrite Beads	Powder Cores	Ferrite Cores	TRANSISTORS: MOSFET	BJT	DIODES: General Purpose	Schottky	Ultrafast	Zener	TV	Photodiodes	Optoisolators	CAPACITORS: Ceramic	Electrolytic	Tantalum	Film	OS-CON/Polymer	RESISTORS: General Purpose	Precision	Current Sense	Thermistors	THERMAL COMPONENTS: Heatsink	Thermal Pads	EMI Shielding
Aavid	603-224-9988	www.aavid.com																												•	•	
AVX	843-448-9411	www.avxcorp.com																			•		•									
Bergquist	952-835-2322	www.bergquistcompany.com																													•	•
BH Electronics	952-894-9590	www.bhelectronics.com	•	•	•	•	•	•																								
BI Technologies	714-447-2345	www.bitechnologies.com	•	•	•	•	•	•																								
Bourns	951-781-5500	www.bourns.com																									•					
Central Semiconductor	631-435-1110	www.centralsemi.com													•																	
Chomerics	781-935-4850	www.chomerics.com																													•	•
Coilcraft	847-639-6400	www.coilcraft.com	•	•	•	•		•																								
Cooper (C.E.T.) Coiltronics	888-414-2645	www.cooperet.com	•	•	•		•																									
Cornell-Dubilier	508-996-8564	www.cornell-dubilier.com																			•	•	•	•								
CTS-IERC	818-842-7277	www.ctscorp.com/components																												•		
Diodes, Inc.	805-446-4800	www.diodes.com										•		•	•	•	•															
Elpac Electronics Inc.	949-476-6070	www.elpac.com																						•								
Fairchild Semiconductor	207-775-8100	www.fairchildsemi.com										•	•																			
Fair-Rite Products	845-895-2055	www.fair-rite.com							•		•																					
General Instrument	215-323-1000	www.gi.com												•			•	•														
Gowanda	610-954-9000	www.gowanda.com	•	•	•	•																										
Halo Electronics, Inc.	650-903-3800	www.haloelectronics.com		•																												
Hurricane Electronics	435-635-2003	www.hurricanelectronics.com	•	•	•			•																								
Infineon Technologies	888-782-8411	www.infineon.com									•			•	•	•	•	•	•	•			•									
International Rectifier	310-322-3331	www.irf.com										•			•																	
IRC-TT Electronics	828-264-8861	www.irctt.com																								•	•	•				
ITW Paktron	434-239-6941	www.paktron.com																						•								
Kemet Electronics	864-963-6300	www.kemet.com																					•		•							
Magnetics Inc.	724-282-8282	www.mag-inc.com								•	•																					
Mallory Duracap	519-539-4891	www.duracap.com																			•	•	•	•								
Micro Metals	714-970-9400	www.micrometals.com							•																							
Microsemi Corporation	949-221-7100	www.microsemi.com										•	•		•		•		•													
Midcom/Wuerth Electronik	605-886-4385	www.midcom-inc.com	•	•	•	•																										
Murata Electronics	770-436-1300	www.murata.com	•																		•											
Nichicon	847-843-7500	www.nichicon-us.com																				•										
NXP, formerly Philips		www.nxp.com									•	•	•	•	•	•	•	•			•	•				•						
ON Semiconductor	800-282-9855	www.onsemi.com										•	•	•	•	•	•	•		•												
Panasonic	714-373-7366	www.panasonic.com	•																						•							
Pulse Engineering	858-674-8100	www.pulseeng.com	•	•	•	•		•																	•							
Sanyo	619-661-6835	www.sanyo.com																				•			•							
Sumida		www.sumida.com	•																													
Taiyo Yuden (U.S.A.), Inc.	847-925-0888	www.t-yuden.com							•												•											
TDK	562-596-1212	www.tdk.com	•																		•											
Tecate Industries	858-513-2300	www.tecategroup.com		•		•		•													•	•	•	•								
Thermalloy	972-633-9371	www.thermalloy.com																												•	•	
Tokin America, Inc.	510-324-4110	www.nec.tokinamerica.com																			•											
Tyco Electronics Passive Components	800-500-5930	www.tycoelectronics.com	•	•	•	•	•																									
United Chemi-con	847-696-2000	www.chemi-con.com																				•										
VISHAY Dale	402-563-6506	www.vishay.com	•	•	•			•																		•	•	•	•			
VISHAY Siliconix		www.vishay.com										•																				
VISHAY Sprague	207-324-4140	www.vishay.com																					•									
VISHAY Vitramon	203-268-6261	www.vishay.com																								•						
Wakefield Engineering	603-635-2800	www.wakefield.com																												•	•	
Wima Div. Of Inter-Technical Grp	914-347-2474	www.inter-technical.com																						•								
Wuerth Elektronik	201-785-8800	www.wuerth-elektronik.de	•	•	•	•	•	•	•	•																						
Zetex	631-360-2222	www.zetex.com										•	•		•																	

Power Application Notes

AN1 Understanding and Applying the LT1005 Multifunction Regulator
This application note describes the unique operating characteristics of the LT1005 and describes a number of useful applications which take advantage of the regulator's ability to control the output with a logic control signal.

AN2 Performance Enhancement Techniques for 3-Terminal Regulators
This application note describes a number of enhancement circuit techniques used with existing 3-terminal regulators which extend current capability, limit power dissipation, provide high voltage output, operate from 110VAC or 220VAC without the need to switch transformer windings, and many other usefu application ideas.

AN8 Power Conditioning Techniques for Batteries
A variety of approaches for power conditioning batteries is given. Switching and linear regulators and converters are shown, with attention to efficiency and low power operation. 14 circuits are presented with performance data.

AN11 Designing Linear Circuits for 5V Operation
This note covers the considerations for designing precision linear circuits which must operate from a single 5V supply. Applications include various transducer signal conditioners, instrumentation amplifiers, controllers and isolated data converters.

AN15 Circuitry for Single Cell Operation
1.5V powered circuits for complex linear functions are detailed. Designs include a V/F converter, a 10-bit A/D, sample-hold amplifiers, a switching regulator and other circuits. Also included is a section of component considerations for 1.5V powered linear circuits.

AN19 LT1070 Design Manual
This design manual is an extensive discussion of all standard switching configurations for the LT1070; including buck, boost, flyback, forward, inverting and "Cuk." the manual includes comprehensive information on the LT1070, the external components used with it, and complete formulas for calculating component values.

AN25 Switching Regulators for Poets
Subtitled "A Gentle Guide for the Trepidatious," this is a tutorial on switching regulator design. the text assumes no switching regulator design experience, contains no equations, and requires no inductor construction to build the circuits described.

Designs detailed include flyback, isolated telecom, off-line, and others. Appended sections cover component considerations, measurement techniques and steps involved in developing a working circuit.

AN29 Some Thoughts on DC/DC Converters
This note examines a wide range of DC/DC converter applications. Single inductor, transformer, and switched-capacitor converter designs are shown. Special topics like low noise, high efficiency, low quiescent current, high voltage, and wide-input voltage range converters are covered. Appended sections explain some fundamental properties of different types of converters.

AN30 Switching Regulator Circuit Collection
Switching regulators are of universal interest. Linear Technology has made a major effort to address this topic. A catalog of circuits has been compiled so that a design engineer can swiftly determine which converter type is best. This catalog serves as a visual index to be browsed through for a specific or general interest.

AN31 Linear Circuits for Digital Systems
Subtitled "Some Affable Analogs for Digital Devotees," discusses a number of analog circuits useful in predominantly digital systems. V_{P-P} generators for flash memories receive extensive treatment. Other examples include a current loop transmitter, dropout detectors, power management circuits, and clocks.

AN32 High Efficiency Linear Regulators
Presents circuit techniques permitting high efficiency to be obtained with linear regulation. Particular attention is given to the problem of maintaining high efficiency with widely varying inputs, outputs and loading. Appendix sections review component characteristics and measurement methods.

AN35 Step-Down Switching Regulators
Discusses the LT1074, an easily applied step-down regulator IC. Basic concepts and circuits are described along with more sophisticated applications. Six appended sections cover LT1074 circuitry detail, inductor and discrete component selection, current measuring techniques, efficiency considerations and other topics.

AN37 Fast Charge Circuits for NiCad Batteries
Safe, fast charging of NiCad batteries is attractive in many applications. This note details simple, thermally-based fast charge circuitry for NiCads. Performance data is summarized and compared to other charging methods.

AN39 Parasitic Capacitance Effects in Step-Up Transformer Design
This note explores the causes of the large resonating current spikes on the leading edge of the switch current waveform. These anomalies are exacerbated in very high voltage designs.

AN44 LT1074/LT1076 Design Manual
This note discusses the use of the LT1074 and LT1076 high efficiency switching regulators. These regulators are specifically designed for ease of use. This application note is intended to eliminate the most common errors that customers make when using switching regulators as well as offering insight into the inner workings of switching designs. There is an entirely new treatment of inductor design based upon simple mathematical formulas that yield direct results. There are extensive tutorial sections devoted to the care and feeding of the Positive Step-Down (Buck) Converter, the Tapped Inductor Buck Converter, the Positive-to-Negative Converter and the Negative Boost Converter. Additionally, many troubleshooting hints are included as well as oscilloscope techniques, soft-start architectures, and micropower shutdown and EMI suppression methods.

AN46 Efficiency Characteristics of Switching Regulator Circuits
Efficiency varies for different DC/DC converters. This application note compares the efficiency characteristics of some of the more popular types. Step-Up,ustep-down, flyback, negative-to-positive, and positive-to-negative are shown. Appended sections discuss how to select the proper aluminum electrolytic capacitor and explain power switch and output diode loss calculations.

AN49 Illumination Circuitry for Liquid Crystal Displays
Current generation portable computers and instruments utilize backlit liquid crystal displays. the back light requires a highly efficient, high voltage AC source as well as other supply circuitry. AN49 details these circuits and also includes sections on efficiency measurements and instrumentation considerations. A separate section discusses physical and layout considerations for the display.

AN51 Power Conditioning for Notebook and Palmtop Systems
Notebook and palmtop systems need a number of voltages developed from a battery. Competitive solutions require small size, high efficiency and light weight. This publication includes circuits for high efficiency 5V and 3.3V switching and linear regulators, back light display drivers and battery chargers. All the circuits are specifically tailored for the requirements outlined above.

AN52 *Linear Technology* Magazine Circuit Collection, Vol 1
This application note consolidates the circuits from the first few years of *Linear Technology* magazine into one publication. Presented in the note are a variety of circuits ranging from a 50W high efficiency (>90%) switching regulator to steep roll-off filter circuits with low distortion to 12-bit differential temperature measurement systems.

AN53 Micropower High-Side MOSFET Drivers
This application note describes the operation of high-side N-channel MOSFET switch drivers designed specifically for operation in battery-powered equipment, such as notebook and palmtop computers and portable medical instruments. A selection guide simplifies the proper choice of MOSFET and driver for a particular high-side switch application. Circuits to drive and protect load impedances ranging from large inductors to large capacitors are described and a section on surface mount and copper clad shunts is included.

AN54 Power Conversion from Milliamps to Amps at Ultra High Efficiency (Up to 95%)
This application note discusses the use of the LTC1147, LTC1148, and LTC1149 ultra high efficiency switching regulators in a wide variety of applications. These controllers feature a current-mode architecture which includes an automatic low current operating mode called Burst Mode™ operation, making greater than 90% efficiencies possible at output currents as low as 10mA. This feature maximizes battery life while a product is in sleep or standby modes. In addition, the LTC1148 and LTC1149 are synchronous switching regulators which achieve high efficiency conversion from 10mA to 10A.

AN55 Techniques for 92% Efficient LCD Illumination
This publication details several LCD backlight circuits which feature 92% efficiency. Other benefits include low voltage operation, synchronizing capability, higher output power for color displays, and extended dimming range. Extensive coverage of practical issues includes layout problems, multi-lamp displays, safety and reliability concerns and efficiency and photometric measurements. Also included is a review of circuits which did not work along with appropriate commentary.

AN58 5V to 3.3V Converters for Microprocessor Systems

Many popular microprocessors operate from 3.3V supplies, yet they are used in systems where the predominate source of power is 5V. AN58 presents a collection of both linear and switching regulator solutions for conversion of 5V to 3.3V at currents ranging from 100mA to 20A. Applications information and a comparison of various bypass capacitor types is included. Most of the designs can be easily modified for other intermediate voltages such as 3.45V, 3.7V, and 4.1V.

AN59 Applications of the LT1300 and LT1301 Micropower DC/DC Converters

This note covers operation and applications of the LT1300 and LT1301 high efficiency micropower step-up DC/DC converter ICs. Internal operation of the ICs is described in detail. A variety of applications are presented, ranging from straightforward 2-cell to 5V converters and 5V to 12V converters to exotic transducer-based circuits such as flame detectors and CCFL drivers. Converters from both 2-cell and 4-cell inputs are included. Operating hours at various load currents are presented and relative merits of different battery types are discussed.

AN60 PCMCIA Card and Card Socket Power Management

Most portable systems have expansion sockets conforming to the standards set by the Personal Computer Memory Card International Association (PCMCIA). This standard requires the host to perform an unusual amount of switching on both the V_{CC} and V_{P-P} voltage lines. Card designers face difficult power management and DC/DC conversion issues of their own. Board real estate and component height are at a premium making design difficult and component selection critical. This application note discusses in detail both the host and card designer issues and highlights several new products designed specifically for these applications.

AN61 Practical Circuitry for Measurement and Control Problems

This collection of circuits was worked out between June 1991 and July of 1994. Most were designed at customer request or are derivatives of such efforts. Types of circuits include power converters, transducer signal conditioners, amplifiers and signal generators. Specific circuits include low noise amplifiers, high power single cell DC/DC converters, portable high accuracy barometers, a 10mHz 1% accuracy RMS/DC converter, and random noise generators. Appended sections cover noise theory and present a historical perspective of wideband amplifiers.

AN63 Power Supply Modules for the P54C-VR Pentium® Microprocessor

This application note describes the design of both linear and switching regulators which provide power for 90MHz Pentium® processors. the circuits are intended to comply with Intel's modular power supply specification and provide sufficient power for cache RAM and chip sets in addition to the CPU. They are also capable of providing the additional power required by an upgrade "overdrive" processor.

AN64 Using the LTC1325 Battery Management IC

Application Note 64 details characteristics of various battery types and appropriate charging management schemes. the LTC1325 battery management IC is highlighted along with information for applying it to any type battery. Techniques and circuitry for conditioning, charging and monitoring NiCd, NiMH, Li-Ion and Lead-Acid batteries are presented.

AN65 A Fourth Generation of LCD Backlight Technology

This publication, LTC's fourth effort devoted to LCD backlighting in as many years, treats the subject comprehensively. the text considers lamps, display and layout induced losses, circuitry, efficiency related issues, optimization and measurement techniques. Twelve appended sections cover lamp types, mechanical design, electrical and photometric measurement, layout, circuitry and related topics.

AN66 *Linear Technology* Magazine Circuit Collection, Volume II

Application Note 66 is a compendium of "power circuits" from the first five years of *Linear Technology*. This application note contains circuits that can power most any system you can imagine, from desktop computer systems to micropower systems for portable and handheld equipment. Also included here are circuits that provide 300W or more of power factor corrected DC from a universal input. Battery chargers are included, some that charge several battery types, some that are optimized to charge a single type. MOSFET drivers, high side switches and H-bridge driver circuits are also included, as is an article on simple thermal analysis.

AN68 LT1510 Design Manual

This application note is a comprehensive look at battery charger design using the LT1510. the LT1510 is a complete battery charger, incorporating a switching regulator with an integrated switch. It allows complete battery charger circuits to be built with efficiencies in the 90% range. This app note gives comprehensive information on the operation of the LT1510, component selection for all types of chargers and many important hints and tips for incorporating the LT1510 into a system. Also included is a section on battery types and how to charge and terminate charge for each type of battery (NiMH, NiCd, Li-Ion and Lead Acid).

AN69 LT1575 UltraFast Linear Controller Makes Fast Transient Response Power Supplies

AN69 describes considerations for linear regulators based on the LT1575 UltraFast™ Linear Regulator controller. the LT1575 drives an external MOSFET pass transistor as an overdriven source follower. This configuration results in an extremely high speed regulation loop which minimizes the need for output capacitors. Target applications are state of the art microprocessor core supplies which exhibit large, high speed load transients while having very tight supply voltage tolerance requirements. the application note shows numerous examples of circuit implementations and offers detailed discussions of design considerations.

AN70 A Monolithic Switching Regulator with 100µV Output Noise

This publication details circuitry and applications considerations for the LT1533 low noise switching regulator. Eleven DC/DC converter circuits are presented, some offering <100µV output noise in a 100MHz bandwidth. Tutorial sections detail low noise DC/DC design, measurement, probing and layout techniques, and magnetics selection.

AN73 LT1339 Design Manual

This application note contains detailed design information to allow the reader to craft switching regulators using the LT1339 high power synchronous DC/DC converter. the note provides expanded pin descriptions for the LT1339 as well as easy-to-use graphical tools for the design of high power synchronous buck and boost converters. the manual includes extensive information on the LT1339 and the external components used with it along with formulas and/or graphics to calculate component values.

AN75 Circuitry for Signal Conditioning and Power Conversion

This publication includes designs for data converters and signal conditioners, transducer circuits, crystal oscillators and power converters. Wideband and micropower circuitry receive special attention. Tutorials on micropower design techniques and parasitic effects of test equipment are included.

AN76 OPTI-LOOP Architecture Reduces Output Capacitance and Improves Transient Response

Loop compensation is an uncomfortable subject for many engineers. Experienced power supply designers know that optimum loop compensation is necessary to get the best performance from their power supplies. This application note discusses power supply loop compensation utilizing the features provided by the OPTI-LOOP™ architecture. Loop compensation basics are presented and simple equations are given for frequency response approximations. Typical transient response requirements for the system supply and CPU supply, used in notebook computers, are discussed. Output voltage transient response waveforms and Bode plots are shown for both optimized and nonoptimized control loops as well as for circuits with optimized loops using different output capacitors. Although this publication focuses on circuits using the LTC1628, LTC1735 and LTC1736, the information applies to all regulators equipped with OPTI-LOOP architecture.

AN77 High Efficiency, High Density, PolyPhase Converters for High Current Applications

This application note addresses the following questions. How much do I gain by using a PolyPhase™ architecture? How many phases do I need for my application? How do I design a PolyPhase converter? the design example of an LTC1629-based, 6-phase 90A power converter is presented. the mathematical equations and graphical curves for calculating the ripple currents are included.

AN81 Ultracompact LCD Backlight Inverters

It has become desirable to fashion laptop computers with large area screens, leaving little room for the display's backlight inverter electronics. Miniaturization limitations of high voltage magnetic transformers impose limits on achievable space reduction. Another voltage step-up technology, piezoelectric transformers, permits the desired size reduction and provides additional benefits. This publication describes practical piezoceramic transformers and support circuitry. Ancillary benefits of the piezoelectric approach are also described. Appended sections detail transformer operation and feedback loop considerations.

AN83 Performance Verification of Low Noise, Low Dropout Regulators

In an increasing trend, telecommunications, networking, audio and instrumentation require low noise power supplies. In particular, there is interest in low noise, low dropout linear regulators (LDO). Establishing and specifying LDO dropout performance is relatively easy to do. Verifying that a regulator meets dropout specification is similarly straightforward. Accomplishing the same missions for noise and noise testing is considerably more involved. the noise bandwidth of interest must be called out, along with operating conditions. Low noise performance is effected by numerous subtleties; changes in operating conditions can cause unwelcome surprises. Because of this, LDO noise must be quoted under specified operating and bandwidth conditions to be meaningful. Failure to observe this precaution results in misleading data and erroneous conclusions. This Application Note suggests a noise testing method, details its implementation and presents results.

AN84 *Linear Technology* Magazine Circuit Collection, Volume IV

Application Note 84 is a collection of "power circuits" from the years 1996 through 1998 as seen in the pages of *Linear Technology* magazine. This Application Note collects circuits that can output tens of amps to circuits that can operate a handheld device for several years. In addition to a wide variety of traditional power supply circuits (Buck, Boost, Inverting, Flyback, Linear Regulators, etc.) we include circuits for charging batteries, several Power Management circuits as well as circuits that highlight a very low noise switching regulator.

AN85 Low Noise Varactor Biasing with Switching Regulators

Telecommunication, satellite links and set-top boxes all require tuning a high frequency oscillation. the actual tuning element, a varactor diode, requires high voltage bias for operation. the high voltage bias must be free of noise to prevent unwanted oscillator outputs. This publication details a method for generating noise-free high voltage from low voltage inputs using switching regulators. Spurious oscillator outputs are below –90dBc. Suggested circuit and layout information is included. Appendices cover varactor diode theory and performance verification techniques.

AN88 Ceramic Input Capacitors Can Cause Overvoltage Transients

When it comes to input filtering, ceramic capacitors are a great choice. They offer high ripple current rating and low ESR and ESL. Also, ceramic capacitors are not very sensitive to over voltage and can be used without derating the operating voltage. However, designers must be aware of a potential overvoltage condition that is generated when input voltage is applied abruptly. After applying an input voltage step, typical input filter circuits with ceramic capacitors can generate voltage transients twice as high as the input voltage. Application Note 88 describes how to efficiently use ceramic capacitors for input filters and how to avoid potential problems due to input voltage transients.

AN89 A Thermoelectric Cooler Temperature Controller for Fiber Optic Lasers

This application note presents circuitry for maintaining 0.01°C temperature control of fiber optic lasers over wide ambient range variations. the circuitry also features high efficiency power delivery, compact size and low noise. Detailed descriptions of circuitry and results are given with special emphasis on thermal loop optimization. An appended section covers practical considerations for thermoelectric cooler-based control loops.

AN90 Current Sources for Fiber Optic Lasers

A large group of fiber optic lasers are powered by DC current. Laser drive is supplied by a current source with modulation added to the signal. the current source, although conceptually simple, constitutes an extraordinarily tricky design problem. There are a number of practical requirements for a fiber optic current source and failure to consider them can cause laser and/or optical component destruction. This application note describes ten laser current source circuits with a range of capabilities. High and low current types are presented, along with designs for grounded anode, cathode or floating operation. Each circuit also includes laser protection features. Appended sections cover laser load simulation and current source noise measurement techniques.

AN92 Bias Voltage and Current Sense Circuits for Avalanche Photodiodes

Avalanche photodiodes, used in laser based fiberoptic systems, require high voltage bias and accurate, wide range current monitoring. Bias voltage varies from 15V–90V and current ranges from 100nA to 1mA, a 10,000:1 dynamic range. This publication presents various 5 volt powered circuits which meet these requirements. Appended sections detail specific circuit techniques and cover measurement practice.

AN95 Simple Circuitry for Cellular Telephone/Camera Flash Illumination

This publication concerns implementation of high quality "Flash" illumination in cellular telephones/cameras. Performance vs LED based illumination is discussed and flashlamp operation reviewed. Considerations for support circuitry are given, and a practical circuit, accompanied by performance data, is described. Layout and RFI issues are treated and a sample layout provided. An appended section details operation of the LT3468 flash capacitor charger used in the text's circuit and lists appropriate magnetic components.

AN98 Signal Sources, Conditioners and Power Circuitry

Eighteen circuits are presented in this compilation. Signal sources include a voltage controlled current source, an amplitude/frequency stabilized sine wave oscillator, a versatile, 0V to 50V wideband level shift and four sub-nanosecond pulse generators with risetimes as low as 20ps. Five signal conditioners appear; a unique, single positive rail powered amplifier with output to (and below) zero volts, a milliohmmeter, a 0.02% accurate instrumentation amplifier with 120dB CMRR at $125V_{CM}$, a 100MHz switch with 5mV control channel feedthrough and a 5V powered, 15ppm linearity quartz stabilized V→F, converter. The power circuits section features a Xenon flashlamp supply, two 5V powered, 0V to 300V DC/DC converters, a fixed 200V output circuit for APD bias, a 100W 0V to 500V, 28V powered converter and a high current paralleling scheme for linear regulators. Two appended sections consider measurement technique and connection practice in sub-nanosecond circuits.

AN100 Recommended Land Pad Design, Assembly and Rework Guidelines for DC/DC µModule in LGA Package

AN100 describes the best practice approach for the use of the LTC µModule. Emphasis is placed on getting the best results in the customer application. AN100 is a general guideline with 5 areas of interest—manufacturing considerations, PCB design guidelines, screen printing processes, package to board assembly, and rework. Each area contains details to improve the workability of the µModule. Specific recommendations are also made to improve stencil design and package reliability.

AN101 Minimizing Switching Regulator Residue in Linear Regulator Outputs

Linear regulators are commonly employed to post-regulate switching regulator outputs. Benefits include improved stability, accuracy, transient response and lowered output impedance. Ideally, these performance gains would be accompanied by markedly reduced switching regulator generated ripple and spikes. In practice, all linear regulators encounter some difficulty with ripple and spikes, particularly as frequency rises.This publication explains the causes of linear regulators' dynamic limitations and presents board level techniques for improving ripple and spike rejection. A hardware based ripple/spike simulator is presented, enabling rapid breadboard testing under various conditions. Three appendices review ferrite beads, inductor based filters and probing practice for wideband, sub-millivolt signals.

AN103 LTM4600 DC/DC µModule™ Thermal Performance

This application note provides an extensive guideline for the thermal performance of the LTM4600 µModule. The LTM4600 is characterized with and without heatsinking over an extended operating temperature range. De-rating curves are derived with the different heatsinking types, and the equivalent θ_{JA} (thermal resistance) is derived. The different θ_{JA} parameters are tabulated with reference to the different test conditions.

AN104 Transient Load Testing for Voltage Regulators

Semiconductor memory, card readers, microprocessors, disc drives, piezoelectric devices and digitally based systems furnish transient loads that a voltage regulator must service. Ideally, regulator output is invariant during a load transient. In practice, some variation is encountered and becomes problematic if allowable operating voltage tolerances are exceeded. This mandates testing the regulator and its associated support components to verify desired performance under transient loading conditions. Various methods are employable to generate transient loads, allowing observation of regulator response. This application note presents open and closed loop transient load testing circuitry with measured performance taken under various conditions. Practical considerations for a memory supply voltage regulator are reviewed. Four appended sections cover capacitor parasitics and their effects on load transient response, output capacitor selection, probing techniques and a stabilized transient load tester.

AN107 Extending the Input Voltage Range of PowerPath Circuits for Automotive and Industrial Applications

The voltage range of Linear Technology's PowerPath circuits can be easily extended with just a few components, thus allowing them to meet the needs of virtually all applications. This application note presents solutions for circuits that must withstand large negative voltages, a reverse adapter input for example, and circuits that must withstand large positive inputs, such as automotive load-dump.

AN108 LTC3207/LTC3207-1 User's Guide

The LTC3207/LTC3207-1 is a 600mA LED/Camera driver which illuminates 12 Universal LEDs (ULEDs) and one camera flash LED. The (ULEDs) are considered universal because they may be individually turned on or off, set in general purpose output (GPO) mode, set to blink at a selected on-time and period, or gradate on and off at a selected gradation rate. This device also has an external enable (ENU) pin that may be used to blink, gradate, or turn on/off the LEDs without using the I^2C bus. This may be useful if the microprocessor is in sleep or standby mode. If used properly, these features may save valuable memory space, programming time, and reduce the I^2C traffic.

AN110 LTM4601 DC/DC µModule™ Thermal Performance

This application note provides an extensive guideline for the thermal performance of the LTM4601 µModule. The LTM4601 is characterized with and without heatsinking over an extended operating temperature range. De-rating curves are derived with the different heatsinking types, and the equivalent θ_{JA} (thermal resistance) is derived. The different θ_{JA} parameters are tabulated with reference to the different test conditions.

AN111 LTC3219 User's Guide

The LTC3219 is a 250mA LED driver which illuminates 9 Universal LEDs (ULEDs). The ULEDs are considered universal because they may be individually turned on or off, set in general purpose output (GPO) mode, set to blink at a selected on-time and period, or gradate on and off at a selected gradation rate. This device also has an external enable (ENU) pin that may be used to blink, gradate, or turn on/off the LEDs without using the I^2C bus. This may be useful if the microprocessor is in sleep or standby mode. If used properly, these features may save valuable memory space, programming time, and reduce I^2C traffic.

AN112 Developments in Battery Stack Voltage Measurement

Automobiles, aircraft, marine vehicles, uninterruptible power supplies and telecom hardware represent areas utilizing series connected battery stacks. These stacks of individual cells may contain many units, reaching potentials of hundreds of volts. In such systems it is often desirable to accurately determine each individual cell's voltage. Obtaining this information in the presence of the high "common mode" voltage generated by the battery stack is more difficult than might be supposed.

AN113 Power Conversion, Measurement and Pulse Circuits

This ink marks LTC's eighth circuit collection publication. We are continually surprised, to the point of near mystification, by these circuit amalgams seemingly limitless appeal. Reader requests ascend rapidly upon publication, remaining high for years, even decades. All LTC circuit collections, despite diverse content, share this popularity, although just why remains an open question. Why is it? Perhaps the form; compact, complete, succinct and insular. Perhaps the freedom of selection without commitment, akin to window shopping. Or, perhaps, simply the pleasure of new recruits for the circuit aficionados intellectual palate. Locally based electrosociolgists, spinning elegantly contrived theories, offer explanation, but no convincing evidence is at hand. What is certain is that readers are attracted to these compendiums and that calls us to attention. As such, in accordance with our mission to serve customer preferences, this latest collection is presented. Enjoy.

AN114 Evaluating the Integrity of LGA Package, 2nd Level Interconnect for µModule Family of Products

A good interconnect solution provides performance and cost benefits, ease of manufacturing, and meets or exceeds industry reliability requirements for any application. When the LGA component interconnect was introduced, board level manufacturers were given the task of incorporating the new component interconnect with their existing process. New interconnects often improve processing, but the acceptance for new interconnects can cause conflicts between the design engineers who need the new capability and manufacturing engineers who must accommodate the new package interconnect with their existing process and equipment. The LGA interconnect offers the designers better thermal and electrical performance and the manufacturing engineers the advantage of using existing equipment and processes, thus reducing both design and manufacturing development cycle times.

AN115 LTC3220/LTC3220-1 User's Guide

This application note illustrates how to program and use the unique features of the LTC3220/LTC3220-1 Universal LED (ULED) Driver. These features include individually controlling, gradually turning on and off, or blinking up to 18 LEDs. This device may also be used to provide digital signal(s) to other devices while in shutdown using a strong pull-down general-purpose output (GPO) and an external power source. Current limited GPO mode may also be used to control other devices using the charge pump output (CPO) of the device or an external supply. A programmable shutdown feature allows the device to go into and out of shutdown returning to its pre-shutdown state. These features give the user vast flexibility and control of LEDs and other devices while saving memory space, programming time, I^2C traffic and even battery power.

AN117 DC/DC µModule™ Regulator Printed Circuit Board Design Guidelines

The LTM8020, LTM8021, LTM8022 and LTM8023 µModules are complete easy-to-use encapsulated step-down DC/DC regulators intended to take the pain and aggravation out of implementing a switching power supply onto a system board. With a µModule, you only need an input cap, output cap and one or two resistors to complete the design. As one might imagine, this high level of integration greatly simplifies the task of printed circuit board design, reducing the effort to four categories: component footprint generation, component placement, routing the nets and thermal vias.

AN118 High Voltage, Low Noise, DC/DC Converters

Photomultipliers (PMT), avalanche photodiodes (APD), ultrasonic transducers, capacitance microphones, radiation detectors and similar devices require high voltage, low current bias. Additionally, the high voltage must be pristinely free of noise; well under a millivolt is a common requirement with a few hundred microvolts sometimes necessary. Normally, switching regulator configurations cannot achieve this performance level without employing special techniques. One aid to achieving low noise is that load currents rarely exceed 5mA. This freedom permits output filtering methods that are usually impractical.

AN119A Powering Complex FPGA-Based Systems Using Highly Integrated DC/DC µModule Regulator Systems

In a recent discussion with a system designer, the requirement for his power supply was to regulate 1.5V and deliver up to 40A of current to a load that consisted of four FPGAs. This is up to 60W of power that must be delivered in a small area with the lowest profile (height) possible to allow a steady flow of air for cooling. The power supply had to be surface mountable and operate at high enough efficiency to minimize heat dissipation. He also demanded the simplest possible solution so his time could be dedicated to the more complex tasks. Aside from precise electrical performance, this solution had to remove the heat generated during DC to DC conversion quickly so that the circuit and the ICs in the vicinity do not overheat. Such a solution requires an innovative design to meet these criteria:

1. Very low profile to allow efficient air flow and to prevent thermal shadow on surrounding ICs
2. High efficiency to minimize heat dissipation
3. Current sharing capability to spread the heat evenly to eliminate hot spots and minimize or eliminate the need for heat sinks
4. Complete DC/DC circuit in a surface mount package that includes the DC/DC controller, MOSFETs, inductor, capacitors and compensation circuitry for a quick and easy solution

AN119B Powering Complex FPGA-Based Systems Using Highly Integrated DC/DC µModule Regulator Systems

In part one of this article, we discussed the circuit and electrical performance of a compact and low profile 48A, 1.5V DC/DC regulator solution for a four-FPGA design. The new approach uses four DC/DC µModule™ regulators in parallel to increase output current while sharing the current equally among each device. This solution relies on the accurate current sharing of these µModule regulators to prevent hot spots by dissipating the heat evenly over a compact surface area. Each DC/DC µModule is a complete power supply with onboard inductor, DC/DC controller, MOSFETs, compensation circuitry and input/output bypass capacitors. It occupies only 15mm × 15mm of board area and has a low profile (height) of only 2.8mm. This low profile allows air to flow smoothly over the entire circuit. Moreover, this solution casts no thermal shadow on its surrounding components, further assisting in optimizing thermal performance of the entire system.

AN122 Diode Turn-On Time Induced Failures in Switching Regulators

Most circuit designers are familiar with diode dynamic characteristics such as charge storage, voltage dependent capacitance and reverse recovery time. Less commonly acknowledged and manufacturer specified is diode forward turn-on time. This parameter describes the time required for a diode to turn on and clamp at its forward voltage drop. Historically, this extremely short time, units of nanoseconds, has been so small that user and vendor alike have essentially ignored it. It is rarely discussed and almost never specified. Recently, switching regulator clock rate and transition time have become faster, making diode turn-on time a critical issue.

Data Conversion Application Notes

AN7 Some Techniques for Direct Digitization of Transducer Outputs

Analog-to-digital conversion circuits which directly digitize low level transducer outputs, without DC preamplification, are presented. Covered are circuits which operate with thermocouples, strain gauges, humidity sensors, level transducers and other sensors.

AN15 Circuitry for Single Cell Operation

1.5V powered circuits for complex linear functions are detailed. Designs include a V/F converter, a 10-bit A/D, sample-hold amplifiers, a switching regulator and other circuits. Also included is a section of component considerations for 1.5V powered linear circuits.

AN17 Consideration for Successive Approximation A/D Converters

A tutorial on SAR type A/D converters, this note contains detailed information on several 12-bit circuits. Comparator, clocking, and preamplifier designs are discussed. A final circuit gives a 12-bit conversion in 1.8µs. Appended sections explain the basic SAR technique and explore D/A considerations.

AN26 Interfacing the LTC1090/1/2

A collection of interface applications between various microprocessors/controllers and the LTC1090 family of data acquisition systems. the note is divided into sections specific to each interface. the following sections are available:

Number	A/D	Microprocessor/ Microcontroller
AN26A	LTC1090	8051
AN26B	LTC1090	68HC05
AN26C	LTC1090	63705
AN26D	LTC1090	COP820
AN26E	LTC1090	TMS7742
AN26F	LTC1090	COP402N
AN26G	LTC1091	8051
AN26H	LTC1091	68HC05
AN26I	LTC1091	COP820
AN26J	LTC1091	TMS7742
AN26K	LTC1091	COP402N
AN26L	LTC1091	HD63705VO
AN26M	LTC1090	TMS320C25
AN26N	LTC1091/92	TMS320C25
AN26O	LTC1090	Z-80
AN26P	LTC1090	HD64180
AN26Q	LTC1091	HD64180
AN26R	LTC1094	TMS320C25

These interface notes demonstrate the ease with which the LTC1090 family can be interfaced to microprocessors/controllers having either parallel or serial ports. A complete hardware and software description of the interface is included.

AN33 Converting Light to Digits: LTC1099 Half-Flash 8-Bit A/D Converter Digitizes Photodiode Array

This application note describes a Linear Technology "Half-Flash" A/D converter, the LTC1099, being connected to a 256 element line scan photodiode array. This technology adapts itself to handheld (i.e., low power) bar code readers, as well as high resolution automated machine inspection applications.

AN34 LTC1099 Enables PC-Based Data Acquisition Board to Operate DC-20kHz

A complete design for a data acquisition card for the IBM PC is detailed in this application note. Additionally, C language code is provided to allow sampling of data at speed of more than 20kHz. the speed limitation is strictly based on the execution speed of the "C" data acquisition loop. A "Turbo" XT can acquire data at speeds greater than 20kHz. Machines with 80286 and 80386 processors can go faster than 20kHz. the computer that was used as a test bed in this application was an XT running at 4.77MHz and therefore all system timing and acquisition time measurements are based on a 4.77MHz clock speed.

AN36 Interfacing the LTC1290

A collection of interface applications between various microprocessors/controllers and the LTC1290 family of data acquisition systems. the note is divided into sections specific to each interface. the following sections are available:

Number	A/D	Microprocessor/ Microcontroller
AN36A	LTC1290	8051
AN36B	LTC1290	MC68HC05
AN36C	LTC1290/LTC1090	TMS370
AN36D	LTC1290	COP820C
AN36E	LTC1290	TMS7742
AN36F	LTC1290	COP402N
AN36O	LTC1290	Z-80
AN36P	LTC1290	HD64180

These interface notes demonstrate the ease with which the LTC1290 can be interfaced to microprocessors/controllers having either parallel or serial ports. A complete hardware and software description of the interface is included.

AN45 Measurement and Control Circuit Collection

A variety of measurement and control circuits are included in this application note. Eighteen circuits, including Ultralow noise amplifiers, current sources, transducer signal conditioners, oscillators, data converters and power supplies are presented. the circuits emphasize precision specifications with relatively simple configurations.

AN52 *Linear Technology* Magazine Circuit Collection, Vol 1

This application note consolidates the circuits from the first few years of *Linear Technology* magazine into one publication. Presented in the note are a variety of circuits ranging from a 50W high efficiency (>90%) switching regulator to steep roll-off filter circuits with low distortion to 12-bit differential temperature measurement systems.

AN62 Data Acquisition Circuit Collection

This application note presents a wide variety of data acquisition circuits. the detailed circuit schematics cover 8-, 10-, and 12-bit ADC and DAC applications, serial and parallel digital interfaces, battery monitoring, temperature sensing, isolated interfaces, and connections to various popular microprocessors and micro-controllers. An appendix covers suggested voltage references.

AN67 ***Linear Technology*** **Magazine Circuit Collection, Volume III**
Application Note 67 is a collection of circuits for data conversion, interface and signal processing from the first five years of *Linear Technology*. This application note includes circuits such as fast video multiplexers for high speed video, an ultraselective bandpass filter circuit with adjustable gain, and a fully differential, 8-channel, 12-bit A/D system. the categories included in this app note are data conversion, interface, filters, instrumentation, video/op amps and miscellaneous circuits.

AN71 **The Care and Feeding of High Performance ADCs: Get All the Bits You Paid for**
This application note describes proper techniques for applying high performance ADCs. It describes the problems designers encounter, how to recognize their symptoms and how to avoid them. Topics include ground planes and grounding, supply and reference bypassing, analog input signal conditioning, sampling clock generation, signal jitter and proper handling of the data outputs. A sample board layout is provided as well as performance curves showing the effects of correct and incorrect application.

AN74 **Component and Measurement Advances Ensure 16-Bit DAC Settling Time**
DAC DC specifications are relatively easy to verify. AC specifications require more sophisticated approaches to produce reliable information. In particular, the settling time of the DAC and its output amplifier is extraordinarily difficult to determine to 16-bit resolution. This application note presents methods for 16-bit DAC settling time measurement and compares results. Appendices discuss oscilloscope overdrive, frequency compensation, circuit and optimization techniques, layout, power stages and a historical perspective of precision DACs.

AN78 **A Collection of Differential to Single-Ended Signal Conditioning Circuits for Use with the LTC2400, a 24-Bit No Latency ΔΣ ADC in an SO-8**
This application note describes six low power differential-to-single-ended signal conditioning circuits for the LTC2400 No Latency ΔΣ™ 24-bit ADC. These circuits offer the customer a number of choices for conditioning differential input signals as low as 5mV to as high as ±2.5V, as well as operation on a single 5V or ±5V supplies. Each circuit description also covers circuit design and implementation techniques that can help preserve the LTC2400's inherently high effective resolution. AN78 concludes with two circuits for digitizing temperature when using an RTD or Type S thermocouple.

AN80 **How to Use the World's Smallest 24-Bit No Latency Delta-Sigma™ ADC to its Fullest Potential**
Linear Technology's LTC2400 is the world's first 24-bit ADC in an SO-8 package. An innovative new delta-sigma architecture has been developed. the result is a small, highly accurate, simple-to-use delta-sigma ADC. This Application Note was created to educate users on several topics associated with delta-sigma converters and to dispel confusion associated with this new one-shot, or No Latency ΔΣ™ architecture. the key topics addressed include speed, noise, PGAs line frequency rejection, input current, multiplexing, analog input range and key features differentiating the LTC2400 from other delta-sigma ADCs.

AN86 **A Standards Lab Grade 20-Bit DAC with 0.1ppm/°C Drift**
This publication details a true 1ppm D-to-A converter. Total DC error of this processor corrected DAC remains within 1ppm from 18-32°C, including reference drift. DAC error exclusive of reference drift is substantially better. Construction details and performance verification techniques are included, along with a complete software listing.

AN87 ***Linear Technology*** **Magazine Circuit Collection, Volume V**
Application Note 87 is the fifth in a series that excerpts useful circuits from *Linear Technology* magazine. Data conversion, interface and signal conditioning circuits from issue VI:1 (February 1996) through issue VIII:4 (November 1998) are featured. Like its predecessor, AN67, this Application Note includes circuits for high speed video, interface and hot swap circuits, active RC and switched capacitor filter circuitry and a variety of data conversion and instrumentation circuits. All circuits are conveniently indexed by type.

AN96 **Delta Sigma ADC Bridge Measurement Techniques**
AN96 features several applications that demonstrate how to take full advantage of Linear Technology's delta sigma ADCs when interfacing to sensors. In many cases, signal conditioning can be greatly simplified or eliminated completely. This note explains where it is appropriate to use amplifiers and how to optimize amplifier gain. Also included are discussions on measuring effective number of bits (ENOB) and the relationship to instrument performance, frequency response of delta sigma ADCs, and test techniques. C source code for all of the applications is included to aid firmware development.

AN113 **Power Conversion, Measurement and Pulse Circuits**
This ink marks LTC's eighth circuit collection publication. We are continually surprised, to the point of near mystification, by these circuit amalgams seemingly limitless appeal. Reader requests ascend rapidly upon publication, remaining high for years, even decades. All LTC circuit collections, despite diverse content, share this popularity, although just why remains an open question. Why is it? Perhaps the form; compact, complete, succinct and insular. Perhaps the freedom of selection without commitment, akin to window shopping. Or, perhaps, simply the pleasure of new recruits for the circuit aficionados intellectual palate. Locally based electrosociolgists, spinning elegantly contrived theories, offer explanation, but no convincing evidence is at hand. What is certain is that readers are attracted to these compendiums and that calls us to attention. As such, in accordance with our mission to serve customer preferences, this latest collection is presented. Enjoy.

Signal Conditioning Application Notes

AN3 **Applications for a Switched-Capacitor Instrumentation Building Block**
This application note describes a wide range of useful applications for the LTC1043 dual precision instrumentation switched-capacitor building block. Some of the applications described are ultra high performance instrumentation amplifier, lock-in amplifier, wide range digitally controlled variable gain amplifier, relative humidity sensor signal conditioner, LVDT signal conditioner, charge pump F/V and V/F converters, 12-bit A/D converter and more.

AN4 **Application for a New Power Buffer**
the LT1010 150mA power buffer is described in a number of useful applications such as boosted op amp, a feed-forward, wideband DC stabilized buffer, a video line driver amplifier, a fast sample-hold with hold step compensation, an overload protected motor speed controller, and a piezoelectric fan servo.

AN5 **Thermal Techniques in Measurement and Control Circuitry**
6 applications utilizing thermally based circuits are detailed. Included are a 50MHz RMS to DC converter, and anemometer, a liquid flowmeter and others. A general discussion of thermo-dynamic considerations involved in circuitry is also presented.

AN6 **Applications of New Precision Op Amps**
Application considerations and circuits for the LT1001 and LT1002 single and dual precision amplifiers are illustrated in a number of circuits, including strain gauge signal conditioners, linearized platinum RTD circuits, an ultra precision dead zone circuit for motor servos and other examples.

AN9 **Application Considerations and Circuits for a New Chopper-Stabilized Op Amp**
A discussion of circuit, layout and construction considerations for low level DC circuits includes error analysis of solder, wire and connector junctions. Applications include sub-microvolt instrumentation and isolation amplifiers, stabilized buffers and comparators and precision data converters.

AN10 **Methods for Measuring Op Amp Settling Time**
the AN10 begins with a survey of methods for measuring op amp settling time. This commentary develops into circuits for measuring settling time to 0.0005%. Construction details and results are presented. Appended sections cover oscilloscope overload limitations and amplifier frequency compensation.

AN12 **Circuit Techniques for Clock Sources**
Circuits for clock sources are presented. Special attention is given to crystal-based designs including TXCOs and VXCOs.

AN13 **High Speed Comparator Techniques**
the AN13 is an extensive discussion of the causes and cures of problems in very high speed comparator circuits. A separate applications section presents circuits, including a 0.025% accurate 1Hz to 30MHz V/F converter, a 200ns 0.01% sample-hold and a 10MHz fiber-optic receiver. Five appendices covering related topics complete this note.

AN14 Designs for High Frequency Voltage-to-Frequency Converters
A variety of high performance V/F circuits is presented. Included are a 1Hz to 100MHz design, a quartz-stabilized type and a 0.0007% linear unit. Other circuits feature 1.5V operation, sine wave output an nonlinear transfer functions. A separate section examines the trade-offs and advantages of various approaches to V/F conversion.

AN15 Circuitry for Single Cell Operation
1.5V powered circuits for complex linear functions are detailed. Designs include a V/F converter, a 10-bit A/D, sample-hold amplifiers, a switching regulator and other circuits. Also included is a section of component considerations for 1.5V powered linear circuits.

AN16 Unique IC Buffer Enhances Op Amp Designs, Tames Fast Amplifiers
This note describes some of the unique IC design techniques incorporated into a fast, monolithic power buffer, the LT1010. Also, some application ideas are described such as capacitive load driving, boosting fast op amp output current and power supply circuits.

AN18 Power Gain Stages for Monolithic Amplifiers
This note presents output state circuits which provide power gain for monolithic amplifiers. the circuits feature voltage gain, current gain, or both. Eleven designs are shown, and performance is summarized. A generalized method for frequency compensation appears in a separate section.

AN20 Applications for a DC Accurate Lowpass Switched-Capacitor Filter
Discusses the principles of operation of the LTC1062 and helpful hints for its application. Various application circuits are explained in detail with focus on how to cascade two LTC1062s and how to obtain notches. Noise and distortion performance are fully illustrated.

AN21 Composite Amplifiers
Applications often require an amplifier that has extremely high performance in several areas. for example, high speed and DC precision are often needed. If a single device cannot simultaneously achieve the desired characteristics, a composite amplifier made up of two (or more) devices can be configured to do the job. AN21 shows examples of composite approaches in designs combining speed, precision, low noise and high power.

AN22 A Monolithic IC for 100MHz RMS/DC Conversion
AN22 details the theoretical and application aspects of the LT1088 thermal RMS/DC converter. the basic theory behind thermal RMS/DC conversion is discussed and design details of the LT1088 are presented. Circuitry for RMS/DC converters, wideband input buffers and heater protection is shown.

AN23 Micropower Circuits for Signal Conditioning
Low power operation of electronic apparatus has become increasingly desirable. AN23 describes a variety of low power circuits for transducer signal conditioning. Also included are designs for data converters and switching regulators. Three appended sections discuss guidelines for micropower design, strobed power operation and effects of test equipment on micropower circuits.

AN24 Unique Applications for the LTC1062 Lowpass Filter
Highlights the LTC1062 as a lowpass filter in a phase lock loop. Describes how the loop's bandwidth can be increased and the VCO output jitter reduced when the LTC1062 is the loop filter. Compares it with a passive RC loop filter.

Also discussed is the use of LTC1062 as simple bandpass and bandstop filter.

AN27A A Simple Method of Designing Multiple Order All Pole Bandpass Filters by Cascading 2nd Order Sections
Presents two methods of designing high quality switched-capacitor bandpass filters. Both methods are intended to vastly simplify the mathematics involved in filter design by using tabular methods. The text assumed no filter design experience but allows high quality filters to be implemented by techniques not presented before in the literature. The designs are implemented by numerous examples using devices from LTC's Switched-Capacitor filter family: LTC1060, LTC1061, and LTC1064. Butterworth and Chebyshev bandpass filters are discussed.

AN28 Thermocouple Measurement
Considerations for thermocouple-based temperature measurement are discussed. A tutorial on temperature sensors summarizes performance of various types, establishing a perspective on thermocouples. Thermocouples are then focused on. Included are sections covering cold-junction compensation, amplifier selection, differential/isolation techniques, protection, and linearization. Complete schematics are given for all circuits. Processor-based linearization is also presented with the necessary software detailed.

AN38 FilterCAD User's Manual, Version 1.00
This note is the manual for FCAD, a computer-aided design program for designing filters with LTC's switched-capacitor filter family. FCAD helps users design good filters with a minimum amount of effort. the experienced filter designer can use the program to achieve better results by providing the ability to play "what if" with the values and configuration of various components.

AN40 Take the Mystery Out of the Switched-Capacitor Filter: the System Designer's Filter Compendium
This note presents guidelines for circuits utilizing LTC's switched-capacitor filters. The discussion focuses on how to optimize filter performance by optimizing the printed wiring board, the power supply, and the output buffering of the filter. Many additional topics are discussed such as how to select the proper filter response for the application and how to characterize a filter's THD for DSP applications.

AN41 Questions and Answers on the SPICE Macromodel Library
This note provides answers to some of the more common questions concerning LTC's Macromodel Library. Topics include hardware and software requirements, model characteristics, and limitations and interpretation of results.

AN42 Voltage Reference Circuit Collection
A wide variety of voltage reference circuits are detailed in this extensive guidebook of circuits. the detailed schematics cover simple and precision approaches at a variety of power levels. Included are 2 and 3 terminal devices in series and shunt modes for positive and negative polarities. Appended sections cover resistor and capacitor selection and trimming techniques.

AN43 Bridge Circuits
Subtitled "Marrying Gain and Balance," this note covers signal conditioning circuits for various types of bridges. Included are transducer bridges, AC bridges, Wien bridge oscillators, Schottky bridges, and others. Special attention is given to amplifier selection criteria. Appended sections cover strain gauge transducers, understanding distortion measurements, and historical perspectives on bridge readout mechanisms and Wein bridge oscillators.

AN45 Measurement and Control Circuit Collection
A variety of measurement and control circuits are included in this application note. Eighteen circuits, including Ultralow noise amplifiers, current sources, transducer signal conditioners, oscillators, data converters and power supplies are presented. the circuits emphasize precision specifications with relatively simple configurations.

AN47 High Speed Amplifier Techniques
This application note, subtitled "A Designer's Companion for Wideband Circuitry," is intended as a reference source for designing with fast amplifiers. Approximately 150 pages and 300 figures cover frequently encountered problems and their possible causes. Circuits include a wide range of amplifiers, filters, oscillators, data converters and signal conditioners. Eleven appended sections discuss related topics including oscilloscopes, probe selection, measurement and equipment considerations, and breadboarding techniques.

AN48 Using the LTC Op Amp Macromodels
LTC's op amp macromodels are described in detail, along with the theory behind each model and complete schematics of each topology. Extended modeling topics are discussed, such as phase/frequency response modifications and asymmetric slew rate for JFET op amp models. LTC's macromodels are optimized for accuracy and fast simulation times. Simulation times can be further reduced by using streamlining techniques found throughout AN48.

AN50 Interfacing to Microprocessor Based 5V Systems
This application note discusses a variety of approaches for interfacing analog signals to 5V powered systems. Synthesizing a "rail-to-rail" op amp and scaling techniques for A/D converters are covered. A voltage-to-frequency converter, applicable where high resolution is required, is also presented.

AN56 "Better Than Bessel" Linear Phase Filters for Data Communications
the pace of the world of digital communications is increasing at a tremendous rate. Each day the engineer is requested to compact more data in the same channel bandwidth with closer channel spacing. This application note discusses some of the requirements and techniques for using the new LTC1064/1164 and LTC1264-7 filters which were designed specifically for digital communications. the terms "channel bandwidth," "eye diagrams" and "linear phase" filtering are discussed without the need for the "engineering speak" which permeates many textbook explanations of the same subjects.

AN57 Video Circuit Collection
AN57, the Video Circuit Collection, features a variety of video circuits designed at LTC. the LT1204 70MHz multiplexer is featured in a number of circuits which require excellent video isolation from channel to channel. High speed voltage and current feedback amplifiers are highlighted throughout the section on video processing circuits. There is a section on applying Current Feedback Amplifiers (CFAs) and a number of articles taken from the *Linear Technology* magazine.

AN61 Practical Circuitry for Measurement and Control Problems
This collection of circuits was worked out between June 1991 and July of 1994. Most were designed at customer request or are derivatives of such efforts. Types of circuits include power converters, transducer signal conditioners, amplifiers and signal generators. Specific circuits include low noise amplifiers, high power single cell DC/DC converters, portable high accuracy barometers, a 10mHz 1% accuracy RMS/DC converter, and random noise generators. Appended sections cover noise theory and present a historical perspective of wideband amplifiers.

AN67 *Linear Technology* Magazine Circuit Collection, Volume III
Application Note 67 is a collection of circuits for data conversion, interface and signal processing from the first five years of *Linear Technology*. This application note includes circuits such as fast video multiplexers for high speed video, an ultraselective bandpass filter circuit with adjustable gain, and a fully differential, 8-channel, 12-bit A/D system. the categories included in this app note are data conversion, interface, filters, instrumentation, video/op amps and miscellaneous circuits.

AN72 A Seven Nanosecond Comparator for Single Supply Operation
AN72 is an extensive discussion of the causes and cures of problems in very high speed comparator circuits. A separate applications section uses the 7ns LT1394 in V-to-F converters, crystal oscillators, clock skew generators, triggers, sampling configurations and a nanosecond pulse stretcher. Appendices cover related topics.

AN75 Circuitry for Signal Conditioning and Power Conversion
This publication includes designs for data converters and signal conditioners, transducer circuits, crystal oscillators and power converters. Wideband and micropower circuitry receive special attention. Tutorials on micropower design techniques and parasitic effects of test equipment are included.

AN79 30 Nanosecond Settling Time Measurement for a Precision Wideband Amplifier
AN79 modifies methods presented in AN74, permitting verification of 30 nanosecond amplifier settling times to 0.1% resolution. the sampling-based technique used is detailed and results presented. Appendices cover oscilloscope overdrive issues, construction of a subnanosecond rise time pulse generator, amplifier compensation, circuit construction and calibration procedures.

AN82 Understanding and Applying Voltage References
Just how do bandgaps and buried Zeners stack up against Weston cells? Did you know your circuit board may induce more drift in a reference than time and temperature? Learn the answers to these and other commonly asked reference questions ranging from burn-in recommendations to ΔV_{BE} generation in this Application Note.

AN87 *Linear Technology* Magazine Circuit Collection, Volume V
Application Note 87 is the fifth in a series that excerpts useful circuits from *Linear Technology* magazine. Data conversion, interface and signal conditioning circuits from issue VI:1 (February 1996) through issue VIII:4 (November 1998) are featured. Like its predecessor, AN67, this Application Note includes circuits for high speed video, interface and hot swap circuits, active RC and switched capacitor filter circuitry and a variety of data conversion and instrumentation circuits. All circuits are conveniently indexed by type.

AN93 Instrumentation Applications for a Monolithic Oscillator
Instrumentation applications for a monolithic programmable oscillator are presented in this publication. Circuits include platinum and thermistor based thermometers, an isolated thermometer and three relative humidity signal conditioners. Bipolar and FET input chopper stabilized amplifiers with noise below 45nV (0.1Hz to 10Hz) are detailed. Two clock tunable sine wave generators with settable amplitude appear, as well as a tunable notch filter, an interval generator and an A to D converter. the oscillator's performance is contrasted against other approaches and its interval operation discussed.

AN94 Slew Rate Verification for Wideband Amplifiers
Wideband amplifiers achieve slew rates beyond 2500V/µs. Verifying slew rates at this speed requires special techniques. In particular, a subnanosecond rise time input step is necessary for accurate slew rate measurement. A pulse generator with a 360 picosecond rise time is shown, and its construction detailed. Slew rate test results using this generator are presented and compared to data taken with slower rise time generators. Appendices cover high speed measurement technique, generator output level shifting and picosecond signal path construction considerations.

AN98 Signal Sources, Conditioners and Power Circuitry
Eighteen circuits are presented in this compilation. Signal sources include a voltage controlled current source, an amplitude/frequency stabilized sine wave oscillator, a versatile, 0V to 50V wideband level shift and four sub-nanosecond pulse generators with risetimes as low as 20ps. Five signal conditioners appear; a unique, single positive rail powered amplifier with output to (and below) zero volts, a milliohmmeter, a 0.02% accurate instrumentation amplifier with 120dB CMRR at $125V_{CM}$, a 100MHz switch with 5mV control channel feedthrough and a 5V powered, 15ppm linearity quartz stabilized V→F, converter. The power circuits section features a Xenon flashlamp supply, two 5V powered, 0V to 300V DC/DC converters, a fixed 200V output circuit for APD bias, a 100W 0V to 500V, 28V powered converter and a high current paralleling scheme for linear regulators. Two appended sections consider measurement technique and connection practice in sub-nanosecond circuits.

AN105 Current Sense Circuit Collection
Sensing and/or controlling current flow is a fundamental requirement in many electronics systems, and the techniques to do so are as diverse as the applications themselves. This Application Note compiles solutions to current sensing problems and organizes the solutions by general application type. These circuits have been culled from a variety of Linear Technology documents.

AN106 Instrumentation Circuitry Using RMS → DC Converters
It is widely acknowledged that RMS measurement of waveforms furnishes the most accurate amplitude information. Rectify-and-average schemes, usually calibrated to a sine wave, are only accurate for one waveshape. Departures from this waveshape result in pronounced errors. Although accurate, RMS conversion often entails limited bandwidth, restricted range, complexity and difficult to characterize dynamic and static errors. The LTC1966/67/68 RMS converter family addresses these issues, making instrument grade applications practical. A variety of instrumentation oriented applications are presented. Included are basic circuits, a fully isolated AC line monitor, a distortionless AC line voltage regulator, wideband X1000 pre-amplifiers, a quartz crystal RMS current meter, a crystal stabilized AC voltage reference, an RMS amplitude leveled random noise generator and an RMS amplitude level controller. Appended sections cover RMS theory and converter operation, AC measurement and signal handling practice, test equipment recommendations, noise theory and noise diodes.

AN112 Developments in Battery Stack Voltage Measurement
Automobiles, aircraft, marine vehicles, uninterruptible power supplies and telecom hardware represent areas utilizing series connected battery stacks. These stacks of individual cells may contain many units, reaching potentials of hundreds of volts. In such systems it is often desirable to accurately determine each individual cell's voltage. Obtaining this information in the presence of the high "common mode" voltage generated by the battery stack is more difficult than might be supposed.

AN113 Power Conversion, Measurement and Pulse Circuits
This ink marks LTC's eighth circuit collection publication. We are continually surprised, to the point of near mystification, by these circuit amalgams seemingly limitless appeal. Reader requests ascend rapidly upon publication, remaining high for years, even decades. All LTC circuit collections, despite diverse content, share this popularity, although just why remains an open question. Why is it? Perhaps the form; compact, complete, succinct and insular. Perhaps the freedom of selection without commitment, akin to window shopping. Or, perhaps, simply the pleasure of new recruits for the circuit aficionados intellectual palate. Locally based electrosociolgists, spinning elegantly contrived theories, offer explanation, but no convincing evidence is at hand. What is certain is that readers are attracted to these compendiums and that calls us to attention. As such, in accordance with our mission to serve customer preferences, this latest collection is presented. Enjoy.

Interface Application Notes

AN67 ***Linear Technology*** **Magazine Circuit Collection, Volume III**
Application Note 67 is a collection of circuits for data conversion, interface and signal processing from the first five years of *Linear Technology*. This application note includes circuits such as fast video multiplexers for high speed video, an ultraselective bandpass filter circuit with adjustable gain, and a fully differential, 8-channel, 12-bit A/D system. the categories included in this app note are data conversion, interface, filters, instrumentation, video/op amps and miscellaneous circuits.

AN87 ***Linear Technology*** **Magazine Circuit Collection, Volume V**
Application Note 87 is the fifth in a series that excerpts useful circuits from *Linear Technology* magazine. Data conversion, interface and signal conditioning circuits from issue VI:1 (February 1996) through issue VIII:4 (November 1998) are featured. Like its predecessor, AN67, this Application Note includes circuits for high speed video, interface and hot swap circuits, active RC and switched capacitor filter circuitry and a variety of data conversion and instrumentation circuits. All circuits are conveniently indexed by type.

High Frequency Application Notes

AN91 **Low Cost Coupling Methods for RF Power Detectors Replace Directional Couplers**
AN91 describes an RF feedback coupling method which eliminates the directional coupler. Instead, a 0.4pF ±0.05pF capacitor and 50Ω resistor are used to feed RF signal back to the LTC power controller. This method reduces coupling loss variations, cost and lead time.

AN97 **Accurate Measurement of LT5514 Third Order Intermodulation Products**
High linearity RF/IF amplifiers achieve output third order intercept point in excess of +40dBm. Verifying such high OIP3 figures with standard test equipment requires special precautions. This application note provides extensive guidelines for settings of the two-tone source and spectrum analyzer. Also included is a method to qualify the measurement setup prior to the amplifier linearity measurement.

AN99 **LT5528 WCDMA ACPR and AltCPR Measurements**
ACPR (adjacent channel power ratio) and AltCPR (alternate channel power ratio) are both measures of spectral regrowth. They are important performance metrics for digital communication systems that use, for example, WCDMA (wideband code division multiple access) modulation. This publication highlights key considerations for accurate measurements of these parameters. In particular, highly linear direct I/Q modulators such as the LT5528 require high performance measurement equipment and careful techniques to characterize their spectral regrowth.

AN102 **Measuring Phase and Delay Errors Accurately in I/Q Modulators**
A large image rejection can be achieved in an RF transmitter system using an I/Q modulator after performing a phase and gain calibration of the I and Q signals. This is usually done by monitoring the RF output signal and using an optimization algorithm in the baseband processor. However, delay errors in the system prevent a good image rejection to extend over a large bandwidth. This application note helps to characterize the delay errors in the system accurately, using a three-step measurement approach. It can derive the corresponding phase errors for each block in the system and the most dominant delay error source(s) can be identified.

AN109 **Interfacing RF I/Q Modulators with Popular D/A Converters**
Linear Technology's High Frequency Product lineup includes a variety of RF I/Q modulators. The purpose of this application note is to illustrate the circuits required to interface these modulators with several popular D/A converters. Such circuits typically are required to maximize the voltage transfer from the DAC to the baseband inputs of the modulator, as well as provide some reconstruction filtering.

DN1 New Data Acquisition Systems Communicate with Microprocessors over Four Wires
DN2 Sampling of Signals for Digital Filtering and Gate Measurements
DN3 Operational Amplifier Selection Guide for Optimum Noise Performance
DN4 New Developments in RS232 Interfaces
DN5 Temperature Measurement Using the LTC1090/91/92 Series of Data Acquisition Systems
DN6 Operational Amplifier Selection Guide for Optimum Noise Performance
DN7 DC Accurate Filter Eases PLL Design
DN8 Inductor Selection for LT1070 Switching Regulators
DN9 Chopper Amplifiers Complement a DC Accurate Lowpass Filter
DN10 Electrically Isolating Data Acquisition Systems
DN11 Achieving Microamp Quiescent Current in Switching Regulators
DN12 An LT1013 and LT1014 Op Amp SPICE MacroModel
DN13 Closed-Loop Control with the LTC1090 Series of Data Acquisition Systems
DN14 Extending the Applications of 5V Powered RS232 Transceivers
DN15 Noise Calculations in Op Amp Circuits
DN16 Switched-Capacitor Lowpass Filters for Anti-Aliasing Applications
DN17 Programming Pulse Generators for Flash EPROMs
DN18 A Battery-Powered Laptop Computer Power Supply
DN19 A Two-Wire Isolated and Powered 10-Bit Data Acquisition System
DN20 Hex Level Shift Shrinks Board Space
DN21 Floating Input Extends Regulator Capabilities
DN22 New 12-Bit Data Acquisition Systems Communicate with Microprocessors over Four Wires
DN23 Micropower, Single Supply Applications:
(1) A Self-Biased, Buffered Reference
(2) Megaohm Input Impedance Difference Amplifier
DN24 Complex Data Acquisition System Uses Few Components
DN25 A Single Amplifier, Precision High Voltage Instrument Amp
DN26 Auto-Zeroing A/D Offset Voltage
DN27 Design Considerations for RS232 Interfaces
DN28 A SPICE Op Amp Macromodel for the LT1012
DN29 A Single Supply RS232 Interface for Bipolar A/D Converters
DN30 RS232 Transceiver with Automatic Power Shutdown Control
DN31 Isolated Power Supplies for Local Area Networks
DN32 A Simple Ultralow Dropout Regulator
DN33 Powering 3.3V Digital Systems
DN34 Active Termination for SCSI-2 Bus
DN35 12-Bit 8-Channel Data Acquisition System Interface to IBM PC Serial Port
DN36 Ultralow Noise Op Amp Combines Chopper and Bipolar Op Amps
DN37 High Dynamic Range Bandpass Filters for Communication
DN38 Applications for a New Micropower, Low Charge Injection Analog Switch
DN39 Low Power CMOS RS485 Transceiver
DN40 Designing with a New Family of Instrumentation Amplifiers
DN41 Switching Regulator Allows Alkalines to Replace NiCads
DN42 Chopper vs Bipolar Op Amps – An Unbiased Comparison
DN43 LT1056 Improved JFET Op Amp Macromodel Slews Asymmetrically
DN44 A Single Ultralow Dropout Regulator
DN45 Signal Conditioning for Platinum Temperature Transducers
DN46 Current Feedback Amplifier "Do's and Don'ts"
DN47 Switching Regulator Generates Both Positive and Negative Supply with a Single Inductor
DN48 No Design Switching Regulator 5V, 5A Buck (Step-Down) Regulator
DN49 No Design Switching Regulator 5V Buck-Boost (Positive-to-Negative) Regulator
DN50 High Frequency Amplifier Evaluation Board
DN51 Gain Trimming in Instrumentation Amplifier Based Systems
DN52 DC/DC Converters for Portable Computers
DN53 High Performance Frequency Compensation Gives DC-to-DC Converter 75µs Response with High Stability
DN54 A 4-Cell Ni-Cad Regulator/Charger for Notebook Computers
DN55 New Low Cost Differential Input Video Amplifiers Simplify Designs and Improve Performance
DN56 3V Operation of Linear Technology Op Amps
DN57 Video Circuits Collection
DN58 A Simple, Surface Mount Flash Memory V_{P-P} Generator
DN59 5V High Current Step-Down Switchers
DN60 The LTC1096 and 1097: Micropower, SO-8, 8-Bit A/Ds Sample at 1kHz on 3µA of Supply Current
DN61 Peak Detectors Gain in Speed and Performance
DN62 No Design Offline Power Supply
DN63 2 AA Cells Replace 9V Battery, Extend Operating Life
DN64 RS232 Transceivers for Handheld Computers Withstand 10kV ESD
DN65 Send Color Video 1000 Feet Over Low Cost Twisted-Pair
DN66 New 5V and 3V, 12-Bit ADCs Sample at 300kHz on 75mW and 140kHz on 12mW
DN67 A 1mV Offset, Clock-Tunable, Monolithic 5-Pole Lowpass Filter
DN68 New Synchronous Step-Down Switching Regulators Achieve 95% Efficiency
DN69 Low Parts Count DC/DC Converter Circuit with 3.3V and 5V Outputs
DN70 A Broadband Random Noise Generator
DN71 Regulator Circuit Generates Both 3.3V and 5V Outputs from 3.3V or 5V to Run Computers and RS232
DN72 Single LTC1149 Delivers 3.3V and 5V at 17W
DN73 A Simple High Efficiency, Step-Down Switching Regulator
DN74 Techniques for Deriving 3.3V from 5V Supplies
DN75 RS232 Interface Circuits for 3.3V Systems
DN76 PC Card Power Management Techniques
DN77 Single LTC1149 Provides 3.3V and 5V in Surface Mount
DN78 Triple Output 3.3V, 5V, and 12V High Efficiency Notebook Power Supply
DN79 Single 4-Input IC Gives Over 90dB Crosstalk Rejection at 10MHz and is Expandable
DN80 ESD Testing for RS232 Interface Circuits
DN81 4 × 4 Video Crosspoint has 100MHz Bandwidth and 85dB Rejection at 10MHz
DN82 5V to 3.3V Regulator with Fail-Safe Switchover
DN83 C-Load™ Op Amps Tame Instabilities
DN84 Source Resistance Induced Distortion in Op Amps
DN85 Interfacing to Apple LocalTalk® Networks
DN86 Ultralow Power, High Efficiency DC/DC Converter Operates Outside the Audio Band
DN87 Fast Regulator Paces High Performance Processors
DN88 New 500ksps and 600ksps ADCs Match Needs of High Speed Applications
DN89 Applications of the LT1366 Rail-to-Rail Amplifier
DN90 High Efficiency Power Sources for Pentium® Processors
DN91 5V to 3.3V Circuit Collection
DN92 An Adjustable Video Cable Equalizer using the LT1256
DN93 PCMCIA Socket Voltage Switching (Why Your Portable System Needs SafeSlot™ Protection)
DN94 Interfacing to V.35 Networks
DN95 Capacitor and EMI Considerations for New High Frequency Switching Regulators
DN96 LTC1451/52/53: 12-Bit Rail-to-Rail Micropower DACs in an SO-8
DN97 Flash Memory VPP Generator Reference Designs
DN98 Highly Integrated High Efficiency DC/DC Conversion
DN99 LT1182 Floating CCFL with Dual Polarity Contrast
DN100 Dual Output Regulator Uses Only One Inductor
DN101 A Precision Wideband Current Probe for LCD Backlight Measurement
DN102 RS485 Transceivers Reduce Power and EMI
DN103 New LTC1266 Switching Regulator Provides High Efficiency at 10A Loads
DN104 LTC1410: 1.25Msps 12-Bit A/D Converter Cuts Power Dissipation and Size
DN105 LTC1265: A New, High Efficiency Monolithic Buck Converter
DN106 The LTC1392: Temperature and Voltage Measurement in a Single Chip
DN107 C-Load™ Op Amps Conquer Instabilities
DN108 250kHz, 1mA I_Q Constant Frequency Switcher Tames Portable Systems Power
DN109 Micropower Buck/Boost Circuits, Part 1: Converting Three Cells to 3.3V
DN110 Micropower Buck/Boost Circuits, Part 2: Converting Four Cells to 5V
DN111 LT1510 High Efficiency Lithium-Ion Battery Charger
DN112 LTC1390: A Versatile 8-Channel Multiplexer
DN113 Big Power for Big Processors: The LTC1430 Synchronous Regulator
DN114 The LTC1267 Dual Switching Regulator Controller Operates from High Input Voltages
DN115 Create a Virtual Ground with the LT1118-2.5 Sink/Source Voltage Regulator
DN116 Micropower 12-Bit ADCs Shrink Board Space
DN117 70mΩ Protected Load Management Switch
DN118 IR LocalTalk Link has Superior Range and Ambient Rejection
DN119 LT1580 Fast Response Low Dropout Regulator Achieves 0.4 Dropout at 4 Amps
DN120 The LT1304: Micropower DC/DC Converter with Independent Low Battery Detector
DN121 New Micropower, Low Dropout Regulators Ease Battery Supply Designs
DN122 Dual Regulators Power Pentium® Processor or Upgrade CPU
DN123 Ultralow Power Comparators Include Reference
DN124 Fused Lead Battery Charger ICs Need No Heat Sinks
DN125 Monolithic DC/DC Converters Break Speed Limits to Shrink Board Space
DN126 The LT1166: Power Output Stage Automatic Bias System Control IC
DN127 3V and 5V 12-Bit Rail-to-Rail Micropower DACs Combine Flexibility and Performance
DN128 LT1307 Single-Cell Micropower Fixed-Frequency DC/DC Converter Needs No Electrolytic Capacitors
DN129 Precision Receiver Delay Improves Data Transmission
DN130 Power Supplies for Subscriber Line Interface Circuits
DN131 The LTC1446/LTC1446L: World's First Dual 12-Bit DACs in SO-8

DN132 Fast Current Feedback Amplifiers Tame Low Impedance Loads
DN133 Low Input Voltage CCFL Power Supply
DN134 Telephone Ring-Tone Generation
DN135 Efficient Processor Power System Needs no Heat Sink
DN136 LT1462/LT1463/LT1464/LT1465: Micropower Dual and Quad JFET Op Amps Feature pA Input Bias Currents and C-Load Drive Capability
DN137 New Comparators Feature Micropower Operation Under All Conditions
DN138 Micropower ADC and DAC in SO-8 Give PCs a 12-Bit Analog Interface
DN139 Safe Hot Swapping Using the LTC1421
DN140 Updated Operational Amplifier Selection Guide for Optimum Noise Performance
DN141 LTC1436-PLL Low Noise Switching Regulator Helps Control EMI
DN142 Ultralow Quiescent Current DC/DC Converters for Light Load Applications
DN143 Single IC, Power Factor Corrected, Off-Line Supply
DN144 LT1511 Low Dropout, Constant-Current/Constant-Voltage 3A Battery Charger
DN145 New Voltage References Are Smaller and More Precise
DN146 LTC1415: 1.25Msps, 12-Bit ADC Conserves Power and Signal Integrity on a Single 5V Supply
DN147 LTC1069-X: A New Family of 8th Order Monolithic Filters in an SO-8 Package
DN148 Low Power, Fast Op Amps Have Low Distortion
DN149 LTC1392 Monitors System Temperature and Multiple Supply Voltages and Currents
DN150 Single IC, Five Output Switching Power Supply System for Portable Electronics
DN151 The LT1500/LT1501 Low Noise Micropower DC/DC Converters
DN152 The LT1328: A Low Cost 4Mbps IrDA Receiver in MS8 and SO-8 Packages
DN153 Micropower 4- and 8-Channel, 12-Bit ADCs Save Power and Space
DN154 Short-Circuit Protection for Boost Regulators
DN155 Hot Swapping the PCI Bus
DN156 High Power Synchronous Buck Converter Delivers Up to 50A
DN157 UltraFast Linear Regulator Eliminates All Bulk Tantalum and Electrolytic Output Capacitors
DN158 Isolated DC/DC Conversion with the LT1425
DN159 New 14-Bit, 800ksps ADC Upgrades 12-Bit Systems with 81.5dB SINAD, 95dB SFDR
DN160 Dual PowerPath™ Controller Simplifies Power Management
DN161 The "Smart Rock": A Micropower Transponder
DN162 LTC1474/LTC1475 High Efficiency Switching Regulators Draw Only 10µA Supply Current
DN163 1µA Op Amp Permits Precision Portable Circuitry
DN164 High Power CCFL Backlight Inverter for Desktop LCD Displays
DN165 New 16-Bit, 100ksps A/D Converter Runs on 5V Supply
DN166 "LCD Bias" and "Backup Supply" Applications for the LT1316 Micropower DC/DC Converter
DN167 The LTC1590: Applications Versatility of Dual 12-Bit DAC
DN168 RS485 Transceivers Operate at 52Mbps Over 100 Feet of Unshielded Twisted Pair
DN169 LTC1560-1 Tiny 1MHz Lowpass Filter Uses No Inductors
DN170 Battery Backup Regulator is Glitch-Free and Low Dropout
DN171 Maximize Dynamic Range with the LT1466L Micropower Rail-to-Rail Op Amp
DN172 High Efficiency Linear and Switching Solutions for Splitting a Digital Supply
DN173 New 16-Bit SO-8 DAC Has 1LSB (Max) INL and DNL Over Industrial Temperature Range
DN174 10Mbps Multiple Protocol Serial Chip Set: Net1 and Net2 Compliance by Design
DN175 Off-Line Power Supply Does Not Require Filtering to Meet FCC Emission Requirements
DN176 LTC1387: 5V RS232/RS485 Multiprotocol Transceiver
DN177 16-Bit, 333ksps ADC Achieves 90dB SINAD, –100dB THD and No Missing Codes
DN178 LT1534 Ultralow Noise Switching Regulator Controls EMI
DN179 Micropower 600kHz Step-Up DC/DC Converter Delivers 5V at 1A from a Li-Ion Cell
DN180 16mW, Serial/Parallel 14-Bit ADC Samples at 200ksps
DN181 A High Efficiency 500kHz, 4.5A Step-Down Converter in an SO-8 Package
DN182 The LT1167: Single Resistor Sets the Gain of the Best Instrumentation Amplifier
DN183 The LT1370: A 500kHz, 6A Monolithic Boost Converter
DN184 Micropower MSOP 10-Bit ADC Samples at 500ksps
DN185 A Seven Nanosecond Comparator for Single-Supply Operation
DN186 Optimized DC/DC Converter Loop Compensation Minimizes Number of Large Output Capacitors
DN187 A New Low Power, High Output Current Dual CFA Makes xDSL Line Driving Clean and Easy
DN188 Inexpensive Circuit Charges Lithium-Ion Cells
DN189 Step-Up/Step-Down DC/DC Conversion without Inductors
DN190 Op Amp, Comparator and Reference IC Provides Micropower Monitoring Capability
DN191 The LT1776 Provides Power for the IEEE1394 "Fire Wire"
DN192 12-Bit 3Msps SAR ADC Solves Pipeline Problems
DN193 SMBus Accelerator Improves Data Integrity
DN194 New Charger Topology Maximizes Battery Charging Speed
DN195 Get 100dB Stopband Attenuation with the LTC1562 Universal Filter Family
DN196 LTC1626: Step-Down Converter Operates from Single Li-Ion Cell
DN197 Power Solutions for the Device Bay
DN198 Optimizing a DC/DC Converter's Output Capacitors with the LTC1435A
DN199 LTC1735 Provides Low Cost, Efficient Mobile CPU Power
DN200 Hot Swapping the CompactPCI Bus
DN201 A New, High Efficiency, Monolithic Synchronous Step-Down Regulator Works with Single or Dual Li-Ion Batteries
DN202 60V, High Efficiency Buck Switching Regulators in SO-8
DN203 RS485 Transceivers Sustain ±60V Faults
DN204 UL Isolated Self-Powered Sensing
DN205 Tiny RGB Video Multiplexer Switches Pixels at 100MHz
DN206 LTC1702/LTC1703 Switching Regulator Controllers Set a New Standard for Transient Response
DN207 LTC2400 High Accuracy Differential to Single-Ended Converter for ±5V Supplies
DN208 Low Dropout 550kHz DC/DC Controller Operates from Inputs as Low as 2V
DN209 2-Step Voltage Regulation Improves Performance and Decreases CPU Temperature in Portable Computers
DN210 2-Phase, Dual Switching Regulator Fits in Tight Places
DN211 Low Cost, High Efficiency 30A Low Profile PolyPhase Converter
DN212 LT1777 High Voltage, Low Noise Buck Switching Regulator
DN213 LT1399/LT1399HV Triple 300MHz Current Feedback Amplifiers Drive Component Video and LCD Displays
DN214 Selecting Op Amps for Precision 16-Bit DACs
DN215 Low Cost Surface Mount DC/DC Converter Delivers 100A
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DN226 A 24V/48V Hot Swap™ Controller
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Fax: (408) 432-6331

Sacramento / Nevada
2260 Douglas Blvd., Ste. 280
Roseville, CA 95661
Tel: (916) 787-5210
Fax: (916) 787-0110

PACIFIC NORTHWEST

Denver
7007 Winchester Cir., Ste. 130
Boulder, CO 80301
Tel: (303) 926-0002
Fax: (303) 530-1477

Portland
5005 SW Meadows Rd., Ste. 410
Lake Oswego, OR 97035
Tel: (503) 520-9930
Fax: (503) 520-9929

Salt Lake City
Tel: (801) 731-8008

Seattle
2018 156th Ave. NE, Ste. 100
Bellevue, WA 98007
Tel: (425) 748-5010
Fax: (425) 748-5009

SOUTHWEST AREA

Los Angeles
21243 Ventura Blvd., Ste. 238
Woodland Hills, CA 91364
Tel: (818) 703-0835
Fax: (818) 703-0517

Orange County
15375 Barranca Pkwy., Ste. A-213
Irvine, CA 92618
Tel: (949) 453-4650
Fax: (949) 453-4765

Phoenix
2085 E. Technology Cir., Ste. 101
Tempe, AZ 85284
Tel: (480) 777-1600
Fax: (480) 838-1104

San Diego
5090 Shoreham Place, Ste. 110
San Diego, CA 92122
Tel: (858) 638-7131
Fax: (858) 638-7231

CENTRAL AREA

Chicago
2040 E. Algonquin Rd., Ste. 512
Schaumburg, IL 60173
Tel: (847) 925-0860
Fax: (847) 925-0878

Cleveland
7550 Lucerne Dr., Ste. 106
Middleburg Heights, OH 44130
Tel: (440) 239-0817
Fax: (440) 239-1466

Columbus
Tel: (614) 488-4466

Detroit
39111 West Six Mile Road
Livonia, MI 48152
Tel: (734) 779-1657
Fax: (734) 779-1658

Indiana
Tel: (317) 581-9055

Iowa
Tel: (847) 925-0860

Kansas
Tel: (913) 829-8844

Minneapolis
7805 Telegraph Rd., Ste. 225
Bloomington, MN 55438
Tel: (952) 903-0605

Wisconsin
Tel: (262) 859-1900

NORTHEAST AREA

Boston
15 Research Place
North Chelmsford, MA 01863
Tel: (978) 656-4750
Fax: (978) 656-4760

Connecticut
Tel: (860) 228-4104

Philadelphia
3220 Tillman Dr., Ste. 120
Bensalem, PA 19020
Tel: (215) 638-9667
Fax: (215) 638-9764

SOUTHEAST AREA

Atlanta
Tel: (770) 888-8137

Austin
8500 N. Mopac, Ste. 603
Austin, TX 78759
Tel: (512) 795-8000
Fax: (512) 795-0491

Dallas
2301 W. Plano Pkwy., Ste.109
Plano, TX 75075
Tel: (972) 733-3071
Fax: (972) 380-5138

Fort Lauderdale
Tel: (954) 473-1212

Houston
1080 W. Sam Houston Pkwy.,
Ste. 225
Houston, TX 77043
Tel: (713) 463-5001
Fax: (713) 463-5009

Huntsville
Tel: (256) 881-9850

Orlando
Tel: (407) 688-7616

Raleigh
15100 Weston Pkwy., Ste. 202
Cary, NC 27513
Tel: (919) 677-0066
Fax: (919) 678-0041

Tampa
Tel: (813) 634-9434

CANADA

Calgary, AB
Tel: (403) 455-3577

Montreal, QC
Tel: (450) 689-2660

Ottawa, ON
Tel: (450) 689-2660

Toronto, ON
Tel: (440) 239-0817

Vancouver, BC
Tel: (604) 729-1204

ASIA

AUSTRALIA / NEW ZEALAND

Linear Technology Corporation
133 Alexander Street
Crows Nest NSW 2065
Australia
Tel: +61 (0)2 9432 7803
Fax: +61 (0)2 9439 2738

CHINA

Linear Technology Corp. Ltd.
Unit 1503-04, Metroplaza Tower 2
223 Hing Fong Road
Kwai Fong, N.T., Hong Kong
Tel: +852 2428-0303
Fax: +852 2348-0885

Linear Technology Corp. Ltd.
Room 2701, City Gateway
No. 398 Cao Xi North Road
Shanghai, 200030, PRC
Tel: +86 (21) 6375-9478
Fax: +86 (21) 5465-5918

Linear Technology Corp. Ltd.
Room 816, 8/F
China Electronics Plaza B
No. 3 Dan Ling Rd., Hai Dian
District
Beijing, 100080, PRC
Tel: +86 (10) 6801-1080
Fax: +86 (10) 6805-4030

Linear Technology Corp. Ltd.
Room 2604, 26/F
Excellence Times Square Building
4068 YiTian Road, Futian District
Shenzhen, 518048, PRC
Tel: +86 755-8236-6088
Fax: +86 755-8236-6008

JAPAN

Linear Technology KK
8F Shuwa Kioicho Park Bldg.
3-6 Kioicho Chiyoda-ku
Tokyo, 102-0094, Japan
Tel: +81 (3) 5226-7291
Fax: +81 (3) 5226-0268

Linear Technology KK
6F Kearny Place Honmachi Bldg.
1-6-13 Awaza, Nishi-ku
Osaka-shi, 550-0011, Japan
Tel: +81 (6) 6533-5880
Fax: +81 (6) 6543-2588

Linear Technology KK
7F, Sakuradori Ohtsu KT Bldg.
3-20-22 Marunouchi, Naka-ku
Nagoya-shi, 460-0002, Japan
Tel: +81 (52) 955-0056
Fax: +81 (52) 955-0058

KOREA

Linear Technology Korea Co., Ltd.
Yundang Building, #1002
Samsung-Dong 144-23
Kangnam-Ku, Seoul 135-090,
Korea
Tel: +82 (2) 792-1617
Fax: +82 (2) 792-1619

SINGAPORE

Linear Technology Pte. Ltd.
507 Yishun Industrial Park A
Singapore 768734
Tel: +65 6753-2692
Fax: +65 6752-0108

TAIWAN

Linear Technology Corporation
8F-1, 77, Nanking E. Rd., Sec. 3
Taipei, Taiwan
Tel: +886 (2) 2505-2622
Fax: +886 (2) 2516-0702

EUROPE

FINLAND

Linear Technology AB
Teknobulevardi 3-5
P.O. Box 35
FIN-01531 Vantaa
Finland
Tel: +358 (0)46 712 2171
Fax: +358 (0)46 712 2175

FRANCE

Linear Technology S.A.R.L.
Parc Tertiaire Silic
2 Rue de la Couture, BP10217
94518 Rungis Cedex
France
Tel: +33 (1) 56 70 19 90
Fax: +33 (1) 56 70 19 94

GERMANY

Linear Technology GmbH
Osterfeldstrasse 84, Haus C
D-85737 Ismaning
Germany
Tel: +49 (89) 962455-0
Fax: +49 (89) 963147

Linear Technology GmbH
Haselburger Damm 4
D-59387 Ascheberg
Germany
Tel: +49 (2593) 9516-0
Fax: +49 (2593) 951679

Linear Technology GmbH
Jesinger Strasse 65
D-73230 Kirchheim/Teck
Germany
Tel: +49 (0)7021 80770
Fax: +49 (0)7021 807720

ITALY

Linear Technology Italy Srl
Orione 3, C.D. Colleoni
Via Colleoni, 17
I-20041 Agrate Brianza (MI)
Italy
Tel: +39 039 596 5080
Fax: +39 039 596 5090

SWEDEN

Linear Technology AB
Electrum 204
Isafjordsgatan 22
SE-164 40 Kista
Sweden
Tel: +46 (8) 623 16 00
Fax: +46 (8) 623 16 50

UNITED KINGDOM

Linear Technology (UK) Ltd.
3 The Listons, Liston Road
Marlow, Buckinghamshire
SL7 1FD
United Kingdom
Tel: +44 (1628) 477066
Fax: +44 (1628) 478153

Linear Technology Corporation
1630 McCarthy Blvd., Milpitas, CA 95035-7417
1-800-4-LINEAR • 408-432-1900 • 408-434-0507 (Fax)
www.linear.com