

November 2009

(408) 432-1900
www.linear.com

Product Selection Guide

Amplifiers

Data Converters

Linear Regulators

Switching Regulators

μModule DC/DC Converters

Battery Chargers

LED Drivers

Hot Swap

Interface

Filters

RF/Wireless

Silicon Oscillators

Comparators

Supervisory Circuits

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

C.F. = Contact Factory for pricing.

TRADEMARKS

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Linear Technology High Performance Analog ICs

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High Side Switches
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Wireless
Communications
RF Power Control
Optical Communications

RH Grade
JAN S
Military Plastic
Mil Grade
X-Grade

Supervisory Circuits
Pushbutton Controllers
Trackers and
Sequencers
Power Monitors

Amps, Refs,
Filters, Comps

Power
Management

Data
Conversion

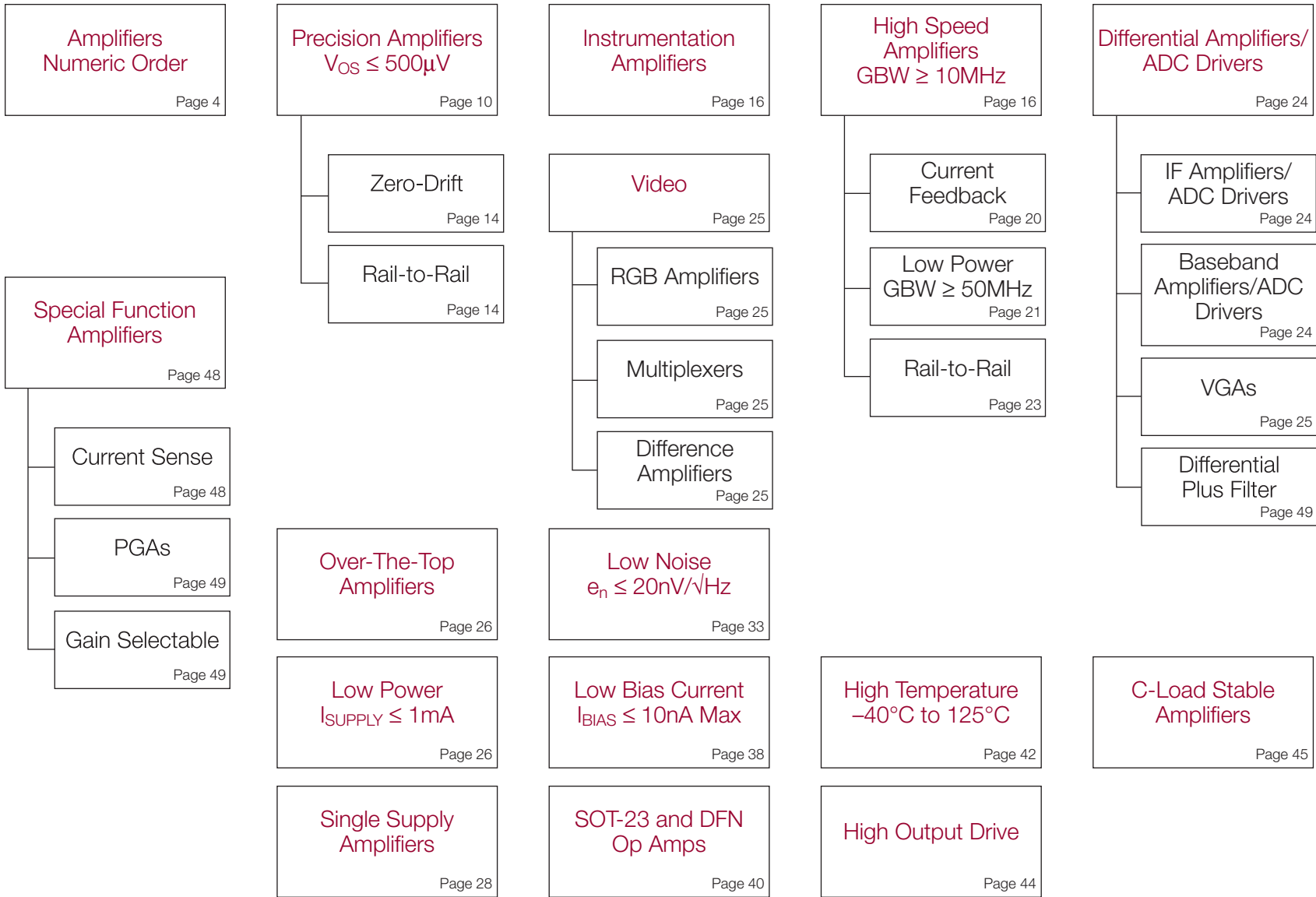
Interface

RF/Wireless

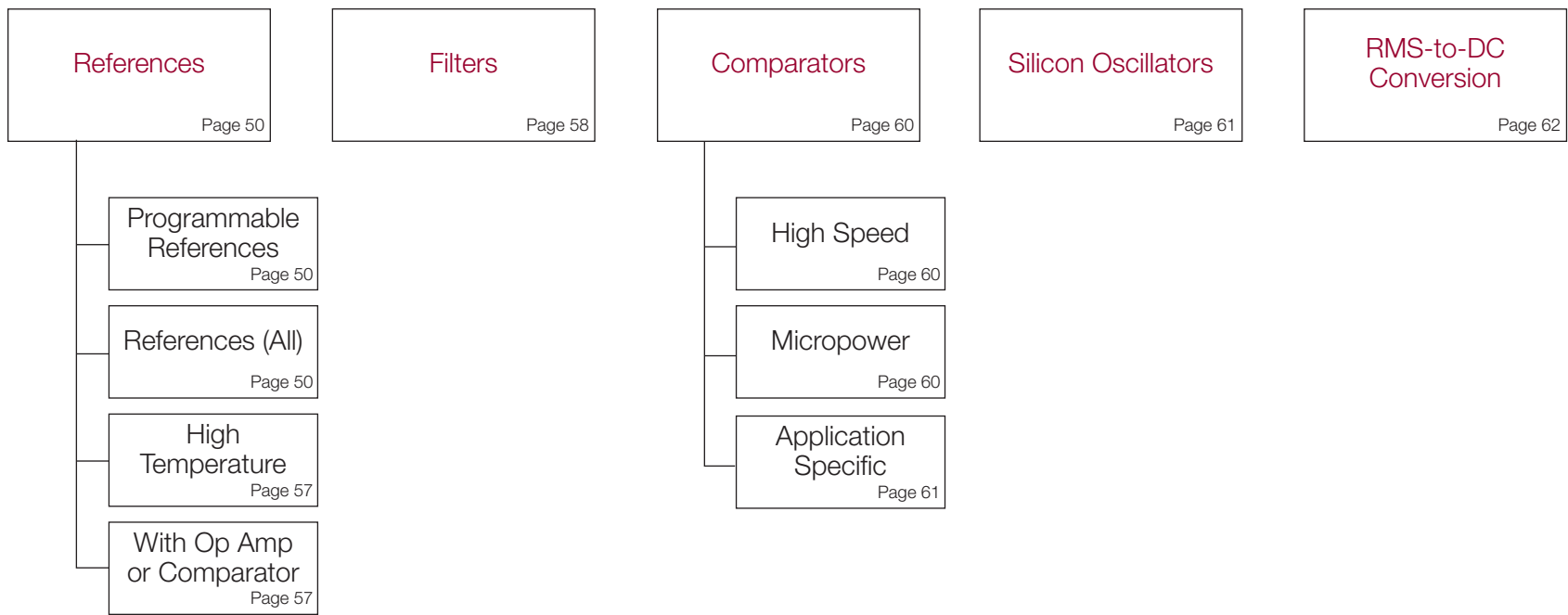
Space, Military,
Harsh Envir.

Reference
Material

Amplifiers



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	JFET	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

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
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

Amplifiers, Refs, Filters, Comps
Power Management
Data Conversion
Interface
RF/Wireless
Space, Military, Harsh Envir.
Reference Material



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
LTC6247	2	500	-2 Typ	350	180	90	74	45	4.2	2	30	1	2.5	5.25	yes	2×2 UTDFN-8/TSOT-8/MSOP-8/MSOP-10		VFB	1	\$1.95
LTC6248	4	500	-2 Typ	350	180	90	74	45	4.2	2	30	1	2.5	5.25	yes	MSOP-16		VFB	1	\$3.07
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
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	\$4.69
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 Amplifier, VGA = Variable Gain Amplifier

PRECISION OP AMPS (V_{OS} ≤ 500μV 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

† Primary Sort Column

†† Secondary Sort Column

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 ($\mu V/^{\circ}C$)	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/ \sqrt{Hz})	I_{NOISE} Typ 25°C (pA/ \sqrt{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	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	LTC6247	500	-2 Typ	350	78	45	180	90	4.2	2	1	2.5	5.25	yes	2x2 UTDFN-8/TSOT-8/MSOP-8/MSOP-10	180MHz GBW 1mA $I_{SUPPLY}/RRIO$	\$1.95
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/1 μA 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
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/ $\pm 5V$ 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/RRIO	\$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	LTC6248	500	-2 Typ	350	78	45	180	90	4.2	2	1	2.5	5.25	yes	MSOP-16	Quad/180MHz GBW 1mA $I_{SUPPLY}/RRIO$	\$3.07
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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material



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

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
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:

- V_{OH} = How close the output swings to the positive rail
 V_{OL} = How close the output swings to the negative rail

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

† Primary Sort Column
 †† Secondary 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
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	LTC6248	180	90	74	4.2	2	500	350	45	30	1	yes	2.5	5.25	no	MSOP-16		1	VFB	\$3.07
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
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 CURRENT FEEDBACK AMPLIFIERS

† 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

† Primary Sort Column
 †† Secondary Sort Column

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

HIGH SPEED CURRENT FEEDBACK AMPLIFIERS

† 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
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)

† Channels	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	LTC6246	1	yes	180	90	74	4.2	2	500	30	2.5	5.25	yes	TSOT-6	TBD	VFB	180MHz GBW/1mA I _{SUPPLY} /RRIO	\$1.39
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	LT6350	5		60	50		1.9		500		2.5	12.6	yes	3×3 DFN-8/MSOP-8		VFB	Ideal for Driving 16-/14-Bit SAR ADCs	C.F.
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
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	LTC6247	1	yes	180	90	74	4.2	2	500	30	2.5	5.25	yes	2×2 UDFN-8/TSOT-8/MSOP-8/MSOP-10	TBD	VFB	180MHz GBW/1mA I _{SUPPLY} /RRIO	\$1.95
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

† Primary Sort Column
 †† Secondary Sort Column

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



Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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

†	Channels	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
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		4x4 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		4x4 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	LT6244	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/RRIO/CMOS	\$1.65	
2	LT6244HV	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/RRIO/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/3x3 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	LTC6248	1	no	180	90	74	4.2	2	500	30	2.5	5.25	yes	MSOP-16	TBD	VFB	180MHz GBW/1mA I _{SUPPLY} /RRIO	\$3.07	
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

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

†	Amplifiers Per Package	††	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 _{VL} 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	LTC6246	180	90	74		500	45	4.2	30	1	yes	2.5	5.25	0.07	0.035	TSOT-6		180MHz GBW/Only 1mA I_{SUPPLY}/RRIO	\$1.39
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	LT6350	60	50			500				5		2.5	12.6			3×3 DFN-8/MSOP-8		Ideal for Driving 16-/14-Bit SAR ADCs	C.F.
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	LTC6247	180	90	74		500	45	4.2	30	1	yes	2.5	5.25	0.07	0.035	2×2 UTDFN-8/TSOT-8/MSOP-8/MSOP-10		180MHz GBW/Only 1mA I_{SUPPLY}/RRIO	\$1.95
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	LTC6248	180	90	74		500	45	4.2	30	1	yes	2.5	5.25	0.07	0.035	MSOP-16		180MHz GBW/Only 1mA I_{SUPPLY}/RRIO	\$3.07
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 positive rail; V_{OL} = How close the output swings to the negative rail

Amplifiers, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

IF AMPLIFIERS/ADC DRIVERS

Part Number	Input Frequency Range (MHz)	Channels	Gain (dB)	Slew Rate (V/μs)	72dB IM3 Frequency (MHz)	84dB IM3 Frequency (MHz)	Total Input-Referred Noise (nV/√Hz)	Z _{IN} (Ω)	V _{SUPPLY} Min (V)	V _{SUPPLY} Max (V)	I _{SUPPLY} Max, 25°C (mA)	Package	Comments	Price 1K Qty
LTC6412	LF to 500	1	(VGA) -14 to 17		380	140		50	3	3.6	135	4x4 QFN-24	Analog Control VGA	\$4.69
LTC6416	LF to 500	1	0	3400	300	140	1.8	12k	2.7	3.9	51	3x2 DFN-10	Unity Gain Buffer	\$3.50
LTC6410-6	LF to 380	1	6	1500	70	-	3.1	50 to 2000	2.8	5.25	130	3x3 QFN-16	Configurable Input Impedance/Can Drive 50Ω	\$2.89
LTC6400-8	LF to 300	1	8	3810	200	140	3.7	400	2.85	3.5	95	3x3 QFN-16	Fixed Gain, 2.5V/V	\$3.20
LTC6400-14	LF to 300	1	14	6000	230	140	2.5	200	2.85	3.5	96	3x3 QFN-16	Fixed Gain, 5V/V	\$3.20
LTC6400-20	LF to 300	1	20	4500	240	150	1.9	200	2.85	3.5	105	3x3 QFN-16	Fixed Gain, 10V/V	\$3.20
LTC6400-26	LF to 300	1	26	6670	250	175	1.4	50	2.85	3.5	102	3x3 QFN-16	Fixed Gain, 20V/V	\$3.20
LT5514	LF to 200	1	(VGA) 10.5 to 33		200	150		108	4.75	5.25	174	TSSOP-20	Digital Control VGA/1.5dB Steps	\$5.20
LT5554	LF to 200	1	(VGA) 2 to 18		200	50	1.3	43	4.75	5.25	259	5x5 QFN-32	Digital Control VGA/0.125dB Steps	\$4.40
LTC6401-8	LF to 200	1	8	3400	180	120	3.2	400	2.85	3.5	60	3x3 QFN-16	Fixed Gain, 2.5V/V	\$2.95
LTC6401-14	LF to 200	1	14	3600	140	70	2.5	200	2.85	3.5	60	3x3 QFN-16	Fixed Gain, 5V/V	\$2.95
LTC6401-20	LF to 200	1	20	4500	140	90	2.1	200	2.85	3.5	62	3x3 QFN-16	Fixed Gain, 10V/V	\$2.95
LTC6401-26	LF to 200	1	26	3300	140	70	1.44	50	2.85	3.5	60	3x3 QFN-16	Fixed Gain, 20V/V	\$2.95
LT1993-10	LF to 100	1	20	1100	70	40	1.7	100	4	5.5	112	3x3 QFN-16	Fixed Gain, 10V/V	\$2.95
LT1993-2	LF to 100	1	6	1100	70	50	3.5	200	4	5.5	112	3x3 QFN-16	Fixed Gain, 2V/V	\$2.95
LT1993-4	LF to 100	1	12	1100	70	40	2.2	100	4	5.5	112	3x3 QFN-16	Fixed Gain, 4V/V	\$2.95
LT6411	LF to 70	1	0, 6	3300	70	50	7.7	500k	4.5	12	22	3x3 QFN-16	Selectable Gain	\$2.39
LTC6405	LF to 70	1	Resistor Set	690	35	24	1.6	3.5k	4.5	5.5	23	3x3 QFN-16/eMSOP-8	Resistor-Set Gain, Rail-to-Rail Input	\$3.44
LTC6406	LF to 70	1	Resistor Set	630	40	15	1.6	3k	2.7	3.5	22	3x3 QFN-16/eMSOP-8	Resistor-Set Gain, Rail-to-Rail Input	\$3.44
LT5524	LF to 50	1	(VGA) 4.5 to 27		80	50		122	4.75	5.25	91	TSSOP-20	Low Power/Digital Control VGA/1.5dB Steps	\$4.40
LT6402-12	LF to 35	1	12	400	35	24	2.6	100	4	5.5	37	3x3 QFN-16	Fixed Gain, 4V/V	\$2.39
LT6402-20	LF to 35	1	20	400	35	27	1.9	100	4	5.5	37	3x3 QFN-16	Fixed Gain, 10V/V	\$2.39
LT6402-6	LF to 35	1	6	400	35	30	3.8	200	4	5.5	37	3x3 QFN-16	Fixed Gain, 2V/V	\$2.39
LTC6420-20	LF to 300	2	20	4500	200	100	2.2	200	2.85	3.5	95	3x4 QFN-20	0.1dB Gain Matching /0.1° Phase Matching	\$5.17
LTC6421-20	LF to 200	2	20	4500	110	40	2.2	200	2.85	3.5	50	3x4 QFN-20	0.1dB Gain Matching/0.2° Phase Matching	\$4.77

† Primary Sort Column
†† Secondary Sort Column

BASEBAND DIFFERENTIAL AMPLIFIERS/ADC DRIVERS

Channels	Part Number	Input Frequency Range (MHz)	Gain (dB)	Slew Rate (V/us)	72dB IM3 Frequency (MHz)	84dB IM3 Frequency (MHz)	Total Input-Referred Noise (nV/√Hz)	Z _{IN} (Ω)	V _{SUPPLY} Min (V)	V _{SUPPLY} Max (V)	I _{SUPPLY} Max, 25°C (mA)	Package	Comments	Price 1K Qty
1	LTC6404-1	LF to 100	Resistor Set	450	25	11	1.5	3k	2.7	5.25	35.5	3x3 QFN-16	Rail-to-Rail Output, A _v ≥1	\$3.44
1	LTC6404-2	LF to 100	Resistor Set	700	40	30	1.5	3k	2.7	5.25	38.5	3x3 QFN-16	Rail-to-Rail Output, A _v ≥2	\$3.44
1	LTC6404-4	LF to 100	Resistor Set	1200	50	20	1.5	3k	2.7	5.25	39	3x3 QFN-16	Rail-to-Rail Output, A _v ≥4	\$3.44
1	LT6411	LF to 70	0dB, 6dB	3300	70	50	7.7	500k	4.5	12	11	3x3 QFN-16	Selectable Gain	\$2.39
1	LTC6405	LF to 70	Resistor Set	690	35	24	1.6	3.5k	4.5	5.5	23	3x3 QFN-16/eMSOP-8	Resistor-Set Gain, Rail-to-Rail Input	\$3.44
1	LTC6406	LF to 70	Resistor Set	630	40	15	1.6	3k	2.7	3.5	22	3x3 QFN-16/eMSOP-8	Resistor-Set Gain, Rail-to-Rail Input	\$3.44
1	LTC6403-1	LF to 40	Resistor Set	200	10	7	2.8	14k	2.7	5.25	11.8	3x3 QFN-16	Rail-to-Rail Output	\$1.79
1	LT6402-12	LF to 35	12 dB	400	40	10	2.6	100	4	5.5	37	3x3 QFN-16	Fixed Gain, 4V/V	\$2.39
1	LT6402-20	LF to 35	20 dB	400	35	10	1.9	100	4	5.5	37	3x3 QFN-16	Fixed Gain, 10V/V	\$2.39
1	LT6402-6	LF to 35	6 dB	400	40	15	3.8	200	4	5.5	37	3x3 QFN-16	Fixed Gain, 2V/V	\$2.39
1	LT1994	LF to 10	Resistor Set	65	2.5	2	3	4.5k	2.375	12.6	19.5	3x3 DFN-8/MSOP-8	-55°C to 125°C MP Grade Available	\$1.65
1	LT6350	LF to 10	Resistor Set	50		1	2	3800k	2.5	12.6	5	3x3 DFN-8/MSOP-8	Ideal for Driving 16-/14-Bit SAR ADCs	C.F.

† Primary Sort Column

VARIABLE GAIN AMPLIFIERS

Part Number	Gain Range (dB)	PGA Step Size (dB)	† OIP3 (dBm)	Noise Figure (dB)	V _{SUPPLY} Min (V)	V _{SUPPLY} Max (V)	I _{SUPPLY} Max (mA)	Package	Price 1K Qty
LT5554	1.725 to 17.6	0.125	48 @ 200MHz	10	4.75	5.25	259	5×5 QFN-32	\$4.40
LT5514	10.5 to 33	1.5	47 @ 100MHz	7.4	4.75	5.25	174	TSSOP-20	\$5.20
LT5524	4.5 to 27	1.5	40 @ 100MHz	8.6	4.75	5.25	91	TSSOP-20	\$4.40
LTC6412	-14 to 17	continuous	35 @ 240MHz	9.5	3	3.6	135	4×4 QFN-24	\$4.69

† Primary Sort Column

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
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
LT1193	9 (@A _v =10)	500	180	0.2	0.08	50	4	40	yes	4.75	18	DIP-8/SO-8	A _v =2	Color Video Differential Amp	\$2.90
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

Over-The-Top® AMPLIFIERS

†	Part Number	††	TC of V _{OS} Max 25°C (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 positive rail; V_{OL} = How close the output swings to the negative rail

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

†	Part Number	††	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	SOT23-5/2x2 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-8/3x3 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-8/3x3 DFN-8		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	2x3 DFN-6		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	3x3 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-10/3x3 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-10/3x3 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	3x3 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	3x3 DFN-8/SO-8	500	Micropower/Precision/RRIO	\$1.10
1	LT6013	0.165	no	35	0.8	0.25	1.6	0.2	107	2000	9.5	2.7	40	out	3x3 DFN-8/SO-8	500	Micropower/Precision/RRIO/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
1	LT1637	0.25	yes	350	3	50	1	0.35	88	800	27	1.8	44	yes	3x3 DFN-8/DIP-8/MS-8/SO-8	2000	High Voltage/Over-The-Top/Low Power	\$1.45

† Primary Sort Column
 †† Secondary Sort Column

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

LOW POWER OP AMPS ($I_{SUPPLY} \leq 1mA/AMP$)

† 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
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	LTC6247	1	yes	500	-2 Typ	350	180	90	78	45	4.2	2.5	5.25	yes	2×2 UTDFN-8/TSOT-8/MSOP-8/MSOP-10		180MHz GBW/1mA I_{SUPPLY}/RRIO	\$1.95
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/RRIO	\$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	LTC6248	1	no	500	-2 Typ	350	180	90	78	45	4.2	2.5	5.25	yes	MSOP-16		180MHz GBW/1mA I_{SUPPLY}/RRIO	\$3.07
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

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

† Primary Sort Column
 †† Secondary Sort Column

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
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	LT6248	500	-2 Typ	350	180	90	78	45	4.2	30	1	no	2.5	5.25	yes	MSOP-16	180MHz GBW/Only 1mA I_{SUPPLY}/RRIO	\$3.07
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	LT6079	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

†	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	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	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	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	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	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	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	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	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	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	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	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	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	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/RRIO	\$3.44		
1	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/RRIO	\$3.44		
1	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	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	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	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	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	1	LT6350	1.9			500			60	50		5	2.5	12.6	yes	3×3 DFN-8/MSOP-8		Ideal for Driving 16-/14-Bit SAR ADCs/ Diff In/Out	C.F.		
1	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1	LT1252	3		1.5	15000			250	250	30	18	4	28		DIP-8/SO-8	100	High Voltage Video Amp	\$1.70		
1	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		

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



Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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

†	Amplifiers Per Package	Part Number	††	E_{NOISE} Typ 25°C (nV/√Hz)	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 (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	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	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	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	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	
1	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	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	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	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 ($A_V=6\text{dB}$)	\$2.39	
1	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	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	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	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	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	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	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	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	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	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	1	LT1217	6.5		0.7	3000			10	500	50	2	10	36		DIP-8/SO-8	5000	Low Power CFA	\$3.20	
1	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	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/RRIO/CMOS	\$0.77	
1	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/RRIO/CMOS	\$1.40	
1	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	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	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	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	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	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	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	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	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	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	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	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	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/RRIO/ $A_V>5$	\$1.10	
1	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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/RRIO	\$1.10	

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

†	Amplifiers Per Package	Part Number	††		V_{OS} Max 25°C (μV)	TC of V_{OS} Max (μV/°C)	I_{BIAS} Max 25°C (nA)	†††	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
			E_{NOISE} Typ 25°C (nV/√Hz)	LF E_{NOISE} Typ 25°C (μV _{p-p})														
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	
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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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 Amp 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/RRIO	\$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 Amp 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/RRIO/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/RRIO/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
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

† Primary Sort Column
 †† Secondary Sort Column

C-Load OP AMPS

† Amplifiers Per Package	Part Number	‡‡ C-Load Stable (pF)	‡			‡‡‡ GBW Typ 25°C (MHz)	Stew 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
			A _{VOL} Typ 25°C (V/mV)	V _{OS} Max 25°C (μV)	I _{BIAS} Max 25°C (nA)												
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
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/RRIO	\$2.95

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

Notes:

- ss = Input common mode range includes negative supply rail
- 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	0.025	0.003	70	optional	450	Programmable	130	DFN-8/MSOP-8	Ultra-Precise, Zero-Drift, High Speed, <1μA in Shutdown	\$1.72
LTC6102HV	Unidirectional	10	0.025	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 _{SUPPLY} from 2.5V	\$2.25
LT1787HV	Bidirectional	75	0.5	20	60	no	120	8	120	SO-8, MSOP-8	Precision, Low Power, V _{SUPPLY} 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	0.04	44	optional	95	Programmable	106	SOT-23	Tested Over -55°C to 150°C, Military Plastic Grade	\$2.35
LT6106	Unidirectional	250	1	0.04	44	optional	95	Programmable	106	SOT-23	Low Cost, Precision, Flexible	\$0.87
LT6105	Unidirectional	300	0.5	25	44	yes	300	Programmable	100	DFN-6, MSOP-8	-0.3V to 44V Input Common Mode Range	\$0.99
LT6100	Unidirectional	300	0.5	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, 3x3 DFN-10	80V Current Sense and Voltage Monitor	\$2.60
LT1620	Unidirectional	5000	-	400 (sink)	5.5	yes	3300	1, 10 or 20	-	MSOP-8, SO-8, SSOPN-16	32V Common Mode Sense Range, Works In Battery Charging Applications With a Current Mode PWM Controller	\$1.80
LT1621	Unidirectional	5000	-	400 (sink)	5.5	yes	3300	1 or 10	-	SSOPN-16	Dual LT1620	\$3.25

† Primary Sort Column

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	LT1991 with Tighter Gain Error, V _{OS} , I _{OS} and Resistor Matching	\$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	LT1990 with Tighter Gain Error, Improved CMRR	\$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

† Channels	Part Number	†† Cutoff Frequency Range	Filter Order	Filter Type	Gain	HD2/HD3 (dbc)	Total I/P Referred Noise (nV/√Hz)	V _{SUPPLY} Min (V)	V _{SUPPLY} Max (V)	I _{SUPPLY} Per Ampl Max 25°C (mA)	Package	Comments	Price 1K Qty
1	LTC6601-1	5MHz to 28MHz	2nd	Lowpass	Pin Prog.	-72@10MHz	2.1	2.7	5.25	43	4×4 QFN-20	2nd Order 5MHz to 28MHz, -17dB to 17dB Gain	\$3.95
1	LTC6601-2	5MHz to 27MHz	2nd	Lowpass	Pin Prog.	-65@10MHz	5.2	2.7	5.25	23	4×4 QFN-20	Low Power, 2nd Order 5MHz to 27MHz, -17dB to 17dB Gain	\$3.95
1	LT6600-20	20MHz	4th	Lowpass	Resistor Set	-83@2.5MHz	16	3	11	46	4×4 DFN-12, SO-8	4th Order 20MHz Lowpass Filter	\$2.95
1	LT6600-15	15MHz	4th	Lowpass	Resistor Set	-86@1MHz	19	3	11	39	4×4 DFN-12, SO-8	4th Order 15MHz Lowpass Filter	\$2.95
1	LT6600-10	10MHz	4th	Lowpass	Resistor Set	-88@1MHz	14	3	11	39	4×4 DFN-12, SO-8	4th Order 10MHz Lowpass Filter	\$2.95
1	LT6600-5	5MHz	4th	Lowpass	Resistor Set	-93@1MHz	16	3	11	31	4×4 DFN-12, SO-8	4th Order 5MHz Lowpass Filter	\$2.95
1	LT6600-2.5	2.5MHz	4th	Lowpass	Resistor Set	-88@1MHz	25	3	11	30	4×4 DFN-12, SO-8	4th Order 2.5MHz Lowpass Filter	\$2.95
2	LTC6605-14	12.4MHz to 25MHz	2nd	Lowpass	Pin Prog.	-81@3MHz	2.1	2.7	5.25	45	6×3 DFN-22	2nd Order Matched Dual Filter	\$6.95
2	LT6604-15	15MHz	4th	Lowpass	Resistor Set	-86@1MHz	19	3	11	39	4×7 QFN-34	4th Order Dual 15MHz Lowpass Filter	\$6.50
2	LTC6605-10	9.7MHz to 14MHz	2nd	Lowpass	Pin Prog.	-90@3MHz	2.1	2.7	5.25	45	6×3 DFN-22	2nd Order Matched Dual Filter	\$6.95
2	LT6604-10	10MHz	4th	Lowpass	Resistor Set	-88@1MHz	14	3	11	39	4×7 QFN-34	4th Order Dual 10MHz Lowpass Filter	\$6.50
2	LTC6605-7	6.5MHz to 10MHz	2nd	Lowpass	Pin Prog.	-96@3MHz	2.1	2.7	5.25	45	6×3 DFN-22	2nd Order Matched Dual Filter	\$6.95
2	LT6604-5	5MHz	4th	Lowpass	Resistor Set	-93@1MHz	16	3	11	31	4×7 QFN-34	4th Order Dual 5MHz Lowpass Filter	\$6.50
2	LTC6603	24kHz to 2.5MHz	9th	Lowpass	0 to 24 dB	-75@1MHz	40	2.7	36	48	4×4 QFN-24	9th Order LP Prog. Matched Dual Filter	\$7.50
2	LT6604-2.5	2.5MHz	4th	Lowpass	Resistor Set	-88@1MHz	25	3	11	30	4×7 QFN-34	4th Order Dual 2.5MHz Lowpass Filter	\$6.50
2	LTC6602	4.2kHz to 900kHz	5th	Lowpass/Bandpass	0 to 30 dB	-82@300kHz	20	2.7	36	40	4×4 QFN-24	5th Order LP or 4th Order BP Prog. Matched Dual Filter	\$6.95

† Primary Sort Column
 †† Secondary Sort Column

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

PROGRAMMABLE REFERENCES

Output Voltage (V)	Shunt/Series	Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V _{OUT} Max (ppm/°C)	Output Current (mA)	Part Order Number	Package Type	Supply Voltage (V)	I _O Max (mA)	Dropout Voltage (V)	Line Reg Max (μV)	Load Reg (ppm/mA)	0.1 - 10Hz Typ Noise (ppm)	Price 1K Qty	
0.4, 0.6, 0.8, 1.0, 1.024, 1.2, 1.25, 1.5, 1.8, 2.0, 2.048, 2.5, 3.0, 3.3, 4, 4.096, 5	Series	C, I	0.1	10	±5	LTC2981	SSOP-16	2.9 to 15	1	0.4	10	40 ⁽¹⁾	6	EEPROM-Based Precision Pin- or I²C Prog., 16 V_{OUT} Levels, Margining/Output Adj with 1% or 10% Steps, PTAT Output	C.F.
0.4 to 14.6	Series	C, I	0.1	10	±5	LTC2981-1	SSOP-16	2.9 to 15	1	0.4	10	40 ⁽¹⁾	6	EEPROM-Based Precision Pin- or I²C Prog., Continuously Adjustable V_{OUT}, Margining/Output Adj with 1% or 10% Steps, PTAT Output	C.F.

Note:

1. V_{OUT} ≥ 1V

REFERENCES

† Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V _{OUT} Max (ppm/°C)	Output Current (mA)	Part Order Number	Package Type	I _O Max or Shunt Current	Dropout Voltage (V)	0.1 - 10Hz Typ Noise (μV _{r-p})	Comment	Price 1K Qty
0.2	Series	0°C to 70°C	5.5	30 Typ	±10	LT1635CN8	DIP-8	130μA	0.8	–	200mV Reference with Buffer and Independent Op Amp	\$1.75
0.2	Series	0°C to 70°C	5.5	30 Typ	±10	LT1635CS8	SO-8	130μA	0.8	–	200mV Reference with Buffer and Independent Op Amp	\$1.95
0.2	Series	–40°C to 85°C	5.5	30 Typ	±10	LT1635IN8	DIP-8	130μA	0.8	–	200mV Reference with Buffer and Independent Op Amp	\$2.15
0.2	Series	–40°C to 85°C	5.5	30 Typ	±10	LT1635IS8	SO-8	130μA	0.8	–	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	11μA	0.1	20	400mV Reference with Buffer Amplifier	\$1.25
0.400	Series	–40°C to 85°C	0.5	30 Typ	±200μA	LT6650IS5	SOT-23	11μA	0.1	20	400mV Reference with Buffer Amplifier	\$1.69
0.400	Series	–40°C to 125°C	0.5	30 Typ	±200μA	LT6650HS5	SOT-23	11μA	0.1	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	0.30	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	0.30	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	Series	0°C to 70°C	0.05	10	10	LT6656ACS6-1.25	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
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	–1 to 5	LT1790ACS6-1.25	SOT-23	60μA	0.1	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	20	10	LT6656BCS6-1.25	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
1.25	Series	0°C to 70°C	0.10	25	–1 to 5	LT1790BCS8-1.25	SOT-23	60μA	0.1	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	10	LT6656AIS6-1.25	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
1.25	Series	–40°C to 85°C	0.05	10	–1 to 5	LT1790AIS6-1.25	SOT-23	60μA	0.1	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	20	10	LT6656BIS6-1.25	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
1.25	Series	–40°C to 85°C	0.10	25	–1 to 5	LT1790BIS6-1.25	SOT-23	60μA	0.1	10	Lowest Cost Precision Series Reference, SOT-23	\$1.56
1.25	Series	–40°C to 125°C	0.025	2	±5	LTC6655BHMS8-1.25	MSOP-8	7mA	0.5	0.3	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
1.25	Series	–40°C to 125°C	0.05	5	±5	LTC6655CHMS8-1.25	MSOP-8	7mA	0.5	0.3	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
1.25	Series	–40°C to 125°C	0.05	5	±5	LTC6652AHMS8-1.25	MSOP-8	560μA	1.55	2.5	Precision, Low Noise, High Temperature Reference	\$3.36
1.25	Series	–40°C to 125°C	0.1	10	±5	LTC6652BHMS8-1.25	MSOP-8	560μA	1.55	2.5	Precision, Low Noise, High Temperature Reference	\$1.65

† 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 (mA)	Part Order Number	Package Type	I _o Max or Shunt Current	Dropout Voltage (V)	0.1 - 10Hz Typ Noise (μV _{r-p})	Comment	Price 1K Qty
2.048	Series	0°C to 70°C	0.05	10	10	LT6656ACS6-2.048	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
2.048	Series	0°C to 70°C	0.05	10	-3 to 5	LT1790ACS6-2.048	SOT-23	60μA	0.1	22	High Precision SOT-23 Reference	\$2.91
2.048	Series	0°C to 70°C	0.10	20	10	LT6656BCS6-2.048	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
2.048	Series	0°C to 70°C	0.10	25	-3 to 5	LT1790BCS6-2.048	SOT-23	60μA	0.1	22	Lowest Cost Precision Series Reference, SOT-23	\$1.25
2.048	Series	-40°C to 85°C	0.05	10	10	LT6656AIS6-2.048	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
2.048	Series	-40°C to 85°C	0.05	10	-3 to 5	LT1790AIS6-2.048	SOT-23	60μA	0.1	22	High Precision SOT-23 Reference	\$3.31
2.048	Series	-40°C to 85°C	0.10	20	10	LT6656BIS6-2.048	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
2.048	Series	-40°C to 85°C	0.10	25	-3 to 5	LT1790BIS6-2.048	SOT-23	60μA	0.1	22	Lowest Cost Precision Series Reference, SOT-23	\$1.56
2.048	Series	-40°C to 125°C	0.025	2	±5	LTC6655BHMS8-2.048	MSOP-8	7mA	0.5	0.5	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/Sources ±5mA	C.F.
2.048	Series	-40°C to 125°C	0.05	5	±5	LTC6655CHMS8-2.048	MSOP-8	7mA	0.5	0.5	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/Sources ±5mA	C.F.
2.048	Series	-40°C to 125°C	0.05	5	±5	LTC6652AHMS8-2.048	MSOP-8	560μA	0.712	4.1	Precision, Low Noise, High Temperature Reference	\$3.36
2.048	Series	-40°C to 125°C	0.1	10	±5	LTC6652BHMS8-2.048	MSOP-8	560μA	0.712	4.1	Precision, Low Noise, High Temperature Reference	\$1.65
2.5	Series	0°C to 70°C	0.04	3	0 to 50	LT1461ACS8-2.5	SO-8	50μA	0.3	20	Highest Precision LDO Reference Available, Shutdown	\$5.10
2.5	Series	0°C to 70°C	0.05	10	10	LT6656ACS6-2.5	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
2.5	Series	0°C to 70°C	0.05	5	±10	LT1019ACN8-2.5	DIP-8	1.0mA	1.1	6	Tight Tolerance, Low TC and Runs on 5V Supplies	\$6.25
2.5	Series	0°C to 70°C	0.05	5	±10	LT1019ACS8-2.5	SO-8	1.0mA	1.1	6	Tight Tolerance, Low TC and Runs on 5V Supplies	\$5.40
2.5	Series	0°C to 70°C	0.05	10	-3 to 5	LT1790ACS6-2.5	SOT-23	60μA	0.1	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	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	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	0.06	7	0 to 50	LT1461BCS8-2.5	SO-8	50μA	0.3	20	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$3.50
2.5	Series	0°C to 70°C	0.075	10	-1 to 20	LT1460ACN8-2.5	DIP-8	130μA	0.9	10	Output Capacitor Optional	\$3.20
2.5	Series	0°C to 70°C	0.075	10	-1 to 20	LT1460ACS8-2.5	SO-8	130μA	0.9	10	Output Capacitor Optional	\$3.35
2.5	Series	0°C to 70°C	0.10	20	10	LT6656BCS6-2.5	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
2.5	Series	0°C to 70°C	0.10	12	0 to 50	LT1461CCS8-2.5	SO-8	50μA	0.3	20	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.50
2.5	Series	0°C to 70°C	0.10	15	-1 to 20	LT1460CCMS8-2.5	MSOP-8	130μA	0.9	10	Output Capacitor Optional	\$3.35
2.5	Series	0°C to 70°C	0.10	20	-1 to 20	LT1460DCN8-2.5	DIP-8	130μA	0.9	10	Output Capacitor Optional	\$2.00
2.5	Series	0°C to 70°C	0.10	20	-1 to 20	LT1460DCS8-2.5	SO-8	130μA	0.9	10	Output Capacitor Optional	\$2.05
2.5	Series	0°C to 70°C	0.10	25	-3 to 5	LT1790BCS6-2.5	SOT-23	60μA	0.1	32	Lowest Cost Precision Series Reference also SOT-23	\$1.25
2.5	Series	0°C to 70°C	0.15	25	-1 to 20	LT1460FCMS8-2.5	MSOP-8	130μA	0.9	10	Output Capacitor Optional	\$2.20
2.5	Series	0°C to 70°C	0.15	40	-2 to 10	LTC1258CS8-2.5	SO-8	6.5μA	0.1	20	Lowest Power LDO Reference Available	\$2.10
2.5	Series	0°C to 70°C	0.15	40	-2 to 10	LTC1798CS8-2.5	SO-8	6.5μA	0.1	20	Industry Standard Pinout Version of LTC1258	\$2.10
2.5	Series	0°C to 70°C	0.20	20	±10	LT1019CN8-2.5	DIP-8	1.2mA	1.1	6	Precision Series Reference, Runs on 5V Supplies	\$3.70
2.5	Series	0°C to 70°C	0.20	20	±10	LT1019CS8-2.5	SO-8	1.2mA	1.1	6	Precision Series Reference, Runs on 5V Supplies	\$4.65
2.5	Series	0°C to 70°C	0.20	20	-1 to 20	LT1460HCS3-2.5	SOT-23	145μA	0.9	10	Precision SOT-23 Reference	\$3.00
2.5	Series	0°C to 70°C	0.20	20	-1 to 20	LT6660HCDC-2.5	DFN	145μA	0.9	10	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.32
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	0.21	60	-2 to 10	LTC1258CMS8-2.5	MSOP-8	6.5μA	0.1	20	Lowest Power LDO Reference Available	\$2.40
2.5	Series	0°C to 70°C	0.25	25	-1 to 20	LT1460GCZ-2.5	TO-92	130μA	0.9	10	Precision TO-92 Series Reference, Output Cap Optional	\$1.60
2.5	Series	0°C to 70°C	0.40	20	-1 to 20	LT1460JCS3-2.5	SOT-23	145μA	0.9	10	SOT-23 Reference, Output Cap Optional	\$2.45
2.5	Series	0°C to 70°C	0.40	20	-1 to 20	LT6660JCDC-2.5	DFN	145μA	0.9	10	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.16
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	0.50	50	-1 to 20	LT1460KCS3-2.5	SOT-23	145μA	0.9	10	Low Cost SOT-23 Reference Output Cap Optional	\$1.35
2.5	Series	0°C to 70°C	0.50	50	-1 to 20	LT6660KCDC-2.5	DFN	145μA	0.9	10	2mm×2mm Pkg, 20mA Output, No Output Cap	\$0.88
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
2.5/7	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
2.5/7	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

† Primary Sort Column
 †† Secondary Sort Column



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

Amps, Refs, Filters, Comps

Power Management

Data Conversion

Interface

RF/Wireless

Space, Military, Harsh Envir.

Reference Material

†	Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V _{OUT} Max (ppm/°C)	Output Current (mA)	Part Order Number	Package Type	I _o Max or Shunt Current	Dropout Voltage (V)	0.1 - 10Hz Typ Noise (μV _{r-p})	Comment	Price 1K Qty
3	Series		-40°C to 85°C	0.05	10	-3 to 5	LT1790AIS6-3	SOT-23	60μA	0.1	50	High Precision SOT-23 Reference, Shutdown	\$3.31
3	Series		-40°C to 85°C	0.06	7	0 to 50	LT1461BIS8-3	SO-8	50μA	0.3	24	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$4.60
3	Series		-40°C to 85°C	0.10	20	10	LT6656BIS6-3	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
3	Series		-40°C to 85°C	0.10	12	0 to 50	LT1461CIS8-3	SO-8	50μA	0.3	24	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.75
3	Series		-40°C to 85°C	0.10	25	-3 to 5	LT1790BIS6-3	SOT-23	60μA	0.1	50	Lowest Cost Precision Series Reference also SOT-23	\$1.56
3	Series		-40°C to 125°C	0.025	2	±5	LTC6655BHMS8-3	MSOP-8	7mA	0.5	0.8	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
3	Series		-40°C to 125°C	0.05	5	±5	LTC6655CHMS8-3	MSOP-8	7mA	0.5	0.8	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
3	Series		-40°C to 125°C	0.05	5	±5	LTC6652AHMS8-3	MSOP-8	560μA	0.3	6	Precision, Low Noise, High Temperature Reference	\$3.36
3	Series		-40°C to 125°C	0.10	10	±5	LTC6652BHMS8-3	MSOP-8	560μA	0.3	6	Precision, Low Noise, High Temperature Reference	\$1.65
3	Series		-40°C to 125°C	0.20	20	0 to 10	LT1461DHS8-3	SO-8	50μA	0.3	24	Highest Precision LDO Reference Available, Shutdown	\$1.50
3.3	Series		0°C to 70°C	0.04	3	0 to 50	LT1461ACS8-3.3	SO-8	50μA	0.3	26	Highest Precision LDO Reference Available, Shutdown	\$6.10
3.3	Series		0°C to 70°C	0.05	10	10	LT6656ACS6-3.3	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
3.3	Series		0°C to 70°C	0.05	10	-3 to 5	LT1790ACS6-3.3	SOT-23	60μA	0.1	50	High Precision SOT-23 Reference	\$2.91
3.3	Series		0°C to 70°C	0.06	7	0 to 50	LT1461BCS8-3.3	SO-8	50μA	0.3	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$4.20
3.3	Series		0°C to 70°C	0.10	20	10	LT6656BCS6-3.3	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
3.3	Series		0°C to 70°C	0.10	12	0 to 50	LT1461CCS8-3.3	SO-8	50μA	0.3	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.50
3.3	Series		0°C to 70°C	0.10	25	-3 to 5	LT1790BCS6-3.3	SOT-23	60μA	0.1	50	Lowest Cost Precision Series Reference also SOT-23	\$1.25
3.3	Series		0°C to 70°C	0.20	20	-1 to 20	LT1460HCS3-3.3	SOT-23	180μA	0.9	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	-1 to 20	LT6660HCDC-3.3	DFN	180μA	0.9	13.5	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.32
3.3	Series		0°C to 70°C	0.40	20	-1 to 20	LT1460JCS3-3.3	SOT-23	180μA	0.9	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	-1 to 20	LT6660JCDC-3.3	DFN	180μA	0.9	13.5	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.16
3.3	Series		0°C to 70°C	0.50	50	-1 to 20	LT1460KCDC-3.3	SOT-23	180μA	0.9	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	-1 to 20	LT6660KCS3-3.3	DFN	180μA	0.9	13.5	2mm×2mm Pkg, 20mA Output, No Output Cap	\$0.88
3.3	Series		-40°C to 85°C	0.04	3	0 to 50	LT1461AIS8-3.3	SO-8	50μA	0.3	26	Highest Precision LDO Reference Available, Shutdown	\$6.50
3.3	Series		-40°C to 85°C	0.05	10	10	LT6656AIS6-3.3	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
3.3	Series		-40°C to 85°C	0.05	10	-3 to 5	LT1790AIS6-3.3	SOT-23	60μA	0.1	50	High Precision SOT-23 Reference	\$3.31
3.3	Series		-40°C to 85°C	0.06	7	0 to 50	LT1461BIS8-3.3	SO-8	50μA	0.3	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$4.60
3.3	Series		-40°C to 85°C	0.10	20	10	LT6656BIS6-3.3	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
3.3	Series		-40°C to 85°C	0.10	12	0 to 50	LT1461CIS8-3.3	SO-8	50μA	0.3	26	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.75
3.3	Series		-40°C to 85°C	0.10	25	-3 to 5	LT1790BIS6-3.3	SOT-23	60μA	0.1	50	Lowest Cost Precision Series Reference also SOT-23	\$1.56
3.3	Series		-40°C to 85°C	0.20	20	0 to 10	LT1461DHS8-3.3	SO-8	50μA	0.3	26	Highest Precision LDO Reference Available, Shutdown	\$1.50
3.3	Series		-40°C to 125°C	0.025	2	±5	LTC6655BHMS8-3.3	MSOP-8	7mA	0.5	0.8	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
3.3	Series		-40°C to 125°C	0.05	5	±5	LTC6655CHMS8-3.3	MSOP-8	7mA	0.5	0.8	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
3.3	Series		-40°C to 125°C	0.05	5	±5	LTC6652AHMS8-3.3	MSOP-8	560μA	0.3	6.6	Precision, Low Noise, High Temperature Reference	\$3.36
3.3	Series		-40°C to 125°C	0.10	10	±5	LTC6652BHMS8-3.3	MSOP-8	560μA	0.3	6.6	Precision, Low Noise, High Temperature Reference	\$1.65
4.096	Series		0°C to 70°C	0.04	3	0 to 50	LT1461ACS8-4	SO-8	50μA	0.3	32	Highest Precision LDO Reference Available, Shutdown	\$5.10
4.096	Series		0°C to 70°C	0.05	10	10	LT6656ACS6-4.096	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
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	-3 to 5	LT1790ACS6-4.096	SOT-23	60μA	0.1	60	High Precision SOT-23 Reference	\$2.91
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	0.06	7	0 to 50	LT1461BCS8-4	SO-8	50μA	0.3	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$3.50
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		0°C to 70°C	0.10	20	10	LT6656BCS6-4.096	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
4.096	Series		0°C to 70°C	0.10	12	0 to 50	LT1461CCS8-4	SO-8	50μA	0.3	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.50
4.096	Series		0°C to 70°C	0.10	25	-3 to 5	LT1790BCS6-4.096	SOT-23	60μA	0.1	60	Lowest Cost Precision Series Reference also SOT-23	\$1.25
4.096	Series		0°C to 70°C	0.15	40	-2 to 10	LTC1258CS8-4.1	SO-8	6.5μA	0.1	40	Lowest Power LDO Reference Available	\$2.10
4.096	Series		0°C to 70°C	0.15	40	-2 to 10	LTC1798CS8-4.1	SO-8	6.5μA	0.1	40	Industry Standard Pinout Version of LTC1258	\$2.10
4.096	Series		0°C to 70°C	0.18	60	-2 to 10	LTC1258CMS8-4.1	MSOP-8	6.5μA	0.1	40	Lowest Power LDO Reference Available	\$2.40
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		-40°C to 85°C	0.04	3	0 to 50	LT1461AIS8-4	SO-8	50μA	0.3	32	Highest Precision LDO Reference Available, Shutdown	\$5.40

† Primary Sort Column
 †† Secondary Sort Column



Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

REFERENCES

†	Output Voltage (V)	Shunt/Series	†† Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V_{OUT} Max (ppm/°C)	Output Current (mA)	Part Order Number	Package Type	I_O Max or Shunt Current	Dropout Voltage (V)	0.1 - 10Hz Typ Noise (μ V _{P-P})	Comment	Price 1K Qty
	4.096	Series	-40°C to 85°C	0.05	10	10	LT6656AIS6-4.096	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
	4.096	Series	-40°C to 85°C	0.05	10	-3 to 5	LT1790AIS6-4.096	SOT-23	60μA	0.1	60	High Precision SOT-23 Reference	\$3.31
	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	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	0.06	7	0 to 50	LT1461BIS8-4	SO-8	50μA	0.3	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$3.85
	4.096	Series	-40°C to 85°C	0.10	20	10	LT6656BIS6-4.096	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
	4.096	Series	-40°C to 85°C	0.10	12	0 to 50	LT1461CIS8-4	SO-8	50μA	0.3	32	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.75
	4.096	Series	-40°C to 85°C	0.10	25	-3 to 5	LT1790BIS6-4.096	SOT-23	60μA	0.1	50	Lowest Cost Precision Series Reference also SOT-23	\$1.56
	4.096	Series	-40°C to 125°C	0.025	2	±5	LTC6655BHMS8-4.096	MSOP-8	7mA	0.5	1.0	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
	4.096	Series	-40°C to 125°C	0.05	5	±5	LTC6655CHMS8-4.096	MSOP-8	7mA	0.5	1.0	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
	4.096	Series	-40°C to 125°C	0.05	5	±5	LTC6652AHMS8-4.096	MSOP-8	560μA	0.3	8.2	Precision, Low Noise, High Temperature Reference	\$3.36
	4.096	Series	-40°C to 125°C	0.10	10	±5	LTC6652BHMS8-4.096	MSOP-8	560μA	0.3	8.2	Precision, Low Noise, High Temperature Reference	\$1.65
	4.096	Series	-40°C to 125°C	0.20	20	0 to 10	LT1461DHS8-4	SO-8	50μA	0.3	32	Highest Precision LDO Reference Available, Shutdown	\$1.50
	4.5	Series	0°C to 70°C	0.05	5	±10	LT1019ACN8-4.5	DIP-8	1.0mA	1.1	12	Tight Tolerance and Low TC Bandgap Reference	\$6.25
	4.5	Series	0°C to 70°C	0.20	20	±10	LT1019CN8-4.5	DIP-8	1.2mA	1.1	12	Precision Series Bandgap Reference	\$3.70
	4.5	Series	0°C to 70°C	0.20	20	±10	LT1019CS8-4.5	SO-8	1.2mA	1.1	12	Precision Series Bandgap Reference	\$4.65
	4.5	Series	-40°C to 85°C	0.20	20	±10	LT1019N8-4.5	DIP-8	1.2mA	1.1	12	Precision Series Bandgap Reference	\$4.75
	5	Series	0°C to 70°C	0.04	3	0 to 50	LT1461ACS8-5	SO-8	50μA	0.3	40	Highest Precision LDO Reference Available, Shutdown	\$5.10
	5	Series	0°C to 70°C	0.05	10	10	LT6656ACS6-5	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
	5	Series	0°C to 70°C	0.05	2	-10 to 15	LT1027BCN8-5	DIP-8	2.7mA	3	3	Tight Tolerance and Low TC Buried Zener Reference	\$4.85
	5	Series	0°C to 70°C	0.05	3	-10 to 15	LT1027CCN8-5	DIP-8	2.7mA	3	3	Tight Tolerance and Low TC Buried Zener Reference	\$4.40
	5	Series	0°C to 70°C	0.05	3	-10 to 15	LT1027CCS8-5	SO-8	2.7mA	3	3	Tight Tolerance and Low TC Buried Zener Reference	\$4.50
	5	Series	0°C to 70°C	0.05	5	±10	LT1019ACN8-5	DIP-8	1.0mA	1.1	12	Tight Tolerance and Low TC Bandgap Reference	\$6.25
	5	Series	0°C to 70°C	0.05	5	±10	LT1019ACS8-5	SO-8	1.0mA	1.1	12	Tight Tolerance and Low TC Bandgap Reference	\$5.40
	5	Series	0°C to 70°C	0.05	5	-10 to 15	LT1027DCN8-5	DIP-8	2.7mA	3	3	Tight Tolerance and Low TC Buried Zener Reference	\$3.90
	5	Series	0°C to 70°C	0.05	5	-10 to 15	LT1027DCS8-5	SO-8	2.7mA	3	3	Tight Tolerance and Low TC Buried Zener Reference	\$4.70
	5	Series	0°C to 70°C	0.05	5	±10	LT1236ACN8-5	DIP-8	1.2mA	2.2	3	Tight Tolerance and Low TC	\$3.75
	5	Series	0°C to 70°C	0.05	5	±10	LT1236ACS8-5	SO-8	1.2mA	2.2	3	Tight Tolerance and Low TC	\$3.75
	5	Series	0°C to 70°C	0.05	10	-3 to 5	LT1790ACS6-5	SOT-23	60μA	0.1	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	0.05	20	±10	LT1021CCH-5	TO-5	1.2mA	2.2	3	Buried Zener Series Reference	\$5.15
	5	Series	0°C to 70°C	0.05	20	±10	LT1021CCN8-5	DIP-8	1.2mA	2.2	3	Buried Zener Series Reference	\$3.50
	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	0.06	7	0 to 50	LT1461BCS8-5	SO-8	50μA	0.3	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$3.50
	5	Series	0°C to 70°C	0.075	10	-1 to 20	LT1460ACN8-5	DIP-8	175μA	0.9	20	Output Capacitor Optional	\$3.20
	5	Series	0°C to 70°C	0.075	10	-1 to 20	LT1460ACS8-5	SO-8	175μA	0.9	20	Output Capacitor Optional	\$3.35
	5	Shunt	0°C to 70°C	0.075	50	Shunt	LT1389BCS8-5	S8	1μA		100	Ultra Low Power Shunt Reference	\$3.10
	5	Series	0°C to 70°C	0.10	7.5	-10 to 15	LT1027ECN8-5	DIP-8	2.7mA	3	3	Tight Tolerance and Low TC Buried Zener Reference	\$3.60
	5	Series	0°C to 70°C	0.10	7.5	-10 to 15	LT1027ECS8-5	SO-8	2.7mA	3	3	Tight Tolerance and Low TC Buried Zener Reference	\$2.25
	5	Series	0°C to 70°C	0.10	10	±10	LT1236BCN8-5	DIP-8	1.2mA	2.2	3	Tight Tolerance and Low TC	\$2.15
	5	Series	0°C to 70°C	0.10	10	±10	LT1236BCS8-5	SO-8	1.2mA	2.2	3	Tight Tolerance and Low TC	\$2.35
	5	Series	0°C to 70°C	0.10	12	0 to 50	LT1461CCS8-5	SO-8	50μA	0.3	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.50
	5	Series	0°C to 70°C	0.10	15	±10	LT1236CCN8-5	DIP-8	1.2mA	2.2	3	Buried Zener Series Reference	\$1.95
	5	Series	0°C to 70°C	0.10	15	±10	LT1236CCS8-5	SO-8	1.2mA	2.2	3	Buried Zener Series Reference	\$1.95
	5	Series	0°C to 70°C	0.10	15	-1 to 20	LT1460CCMS8-5	MSOP-8	175μA	0.9	20	Output Capacitor Optional	\$3.35
	5	Series	0°C to 70°C	0.10	20	10	LT6656BCS6-5	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
	5	Series	0°C to 70°C	0.10	20	-1 to 20	LT1460DCN8-5	DIP-8	175μA	0.9	20	Output Capacitor Optional	\$2.00
	5	Series	0°C to 70°C	0.10	20	-1 to 20	LT1460DCS8-5	SO-8	175μA	0.9	20	Output Capacitor Optional	\$2.05
	5	Series	0°C to 70°C	0.10	25	-3 to 5	LT1790BCS6-5	SOT-23	60μA	0.1	80	Lowest Cost Precision Series Reference also SOT-23	\$1.25
	5	Series	0°C to 70°C	0.15	25	-1 to 20	LT1460FCMS8-5	MSOP-8	175μA	0.9	20	Output Capacitor Optional	\$2.20
	5	Series	0°C to 70°C	0.15	40	-2 to 10	LTC1258CS8-5	SO-8	6.5μA	0.1	40	Lowest Power LDO Reference Available	\$2.10
	5	Series	0°C to 70°C	0.15	40	-2 to 10	LTC1798CS8-5	SO-8	6.5μA	0.1	40	Industry Standard Pinout Version of LTC1258	\$2.10

† 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 (mA)	Part Order Number	Package Type	I _O Max or Shunt Current	Dropout Voltage (V)	0.1 - 10Hz Typ Noise (μV _{P-P})	Comment	Price 1K Qty
5	Series	0°C to 70°C	0.18	60	-2 to 10	LTC1258CMS8-5	MSOP-8	6.5μA	0.1	40	Lowest Power LDO Reference Available	\$2.40
5	Series	0°C to 70°C	0.20	20	±10	LT1019CN8-5	DIP-8	1.2mA	1.1	12	Precision Series Bandgap Reference	\$3.70
5	Series	0°C to 70°C	0.20	20	±10	LT1019CS8-5	SO-8	1.2mA	1.1	12	Precision Series Bandgap Reference	\$4.65
5	Shunt	0°C to 70°C	0.20	20	Shunt	LT1029ACZ	TO-92	600μA-10mA	Shunt	-	General purpose Reference	\$2.50
5	Series	0°C to 70°C	0.20	20	-1 to 20	LT1460HCS3-5	SOT-23	200μA	0.9	20	Precision SOT-23 Reference	\$3.00
5	Series	0°C to 70°C	0.20	20	-1 to 20	LT6660HCDC-5	DFN	200μA	0.9	20	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.32
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	-1 to 20	LT1460GCZ-5	TO-92	175μA	0.9	20	Precision TO-92 Series Reference Output Cap Optional	\$1.60
5	Series	0°C to 70°C	0.40	20	-1 to 20	LT1460JCS3-5	SOT-23	200μA	0.9	20	SOT-23 Reference Output Cap Optional	\$2.46
5	Series	0°C to 70°C	0.40	20	-1 to 20	LT6660JCDC-5	DFN	200μA	0.9	20	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.16
5	Series	0°C to 70°C	0.50	50	-1 to 20	LT1460KCS3-5	SOT-23	200μA	0.9	20	Low Cost SOT-23 Reference Output Cap Optional	\$1.35
5	Series	0°C to 70°C	0.50	50	-1 to 20	LT6660KDC-5	DFN	200μA	0.9	20	2mm×2mm Pkg, 20mA Output, No Output Cap	\$0.88
5	Series	0°C to 70°C	1.00	5	±10	LT1021BCN8-5	DIP-8	1.2mA	2.2	3	Buried Zener Series Reference	\$5.25
5	Series	0°C to 70°C	1.00	5	±10	LT1021BCH-5	TO-5	1.2mA	2.2	3	Very Low Drift, Buried Zener, Series Reference	\$6.90
5	Series	0°C to 70°C	1.00	20	±10	LT1021DCN8-5	DIP-8	1.2mA	2.2	3	Low Cost, Buried Zener, Series Reference	\$2.65
5	Series	0°C to 70°C	1.00	20	±10	LT1021DCS8-5	SO-8	1.2mA	2.2	3	Low Cost, Buried Zener, Series Reference	\$3.20
5	Shunt	0°C to 70°C	1.00	34	Shunt	LT1029CZ	TO-92	600μA-10mA	Shunt	-	General purpose Reference	\$1.55
5	Series	-40°C to 85°C	0.04	3	0 to 50	LT1461AIS8-5	SO-8	50μA	0.3	40	Highest Precision LDO Reference Available, Shutdown	\$5.40
5	Series	-40°C to 85°C	0.05	5	±10	LT1236AIS8-5	SO-8	1.2mA	2.2	3	Tight Tolerance and Low TC	\$4.95
5	Series	-40°C to 85°C	0.05	10	10	LT6656AIS6-5	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
5	Series	-40°C to 85°C	0.05	10	±10	LT1019AIS8-5	SO-8	1.0mA	1.1	12	Tight Tolerance and Low TC Bandgap Reference	\$5.65
5	Series	-40°C to 85°C	0.05	10	-3 to 5	LT1790AIS6-5	SOT-23	60μA	0.1	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	0.05	20	±10	LT1021CIN8-5	DIP-8	1.2mA	2.2	3	Buried Zener Series Reference	\$4.65
5	Series	-40°C to 85°C	0.06	7	0 to 50	LT1461BIS8-5	SO-8	50μA	0.3	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$3.85
5	Series	-40°C to 85°C	0.10	10	±10	LT1236BIN8-5	DIP-8	1.2mA	2.2	3	Tight Tolerance and Low TC	\$2.45
5	Series	-40°C to 85°C	0.10	10	±10	LT1236BIS8-5	SO-8	1.2mA	2.2	3	Tight Tolerance and Low TC	\$2.45
5	Series	-40°C to 85°C	0.10	10	-1 to 20	LT1460BIN8-5	DIP-8	175μA	0.9	20	Output Capacitor Optional	\$4.80
5	Series	-40°C to 85°C	0.10	10	-1 to 20	LT1460BIS8-5	SO-8	175μA	0.9	20	Output Capacitor Optional	\$4.85
5	Series	-40°C to 85°C	0.10	12	0 to 50	LT1461CIS8-5	SO-8	50μA	0.3	40	Tight Tolerance, Low TC and Low Dropout, Shutdown	\$1.75
5	Series	-40°C to 85°C	0.10	15	±10	LT1236CIN8-5	DIP-8	1.2mA	2.2	3	Buried Zener Series Reference	\$2.30
5	Series	-40°C to 85°C	0.10	15	±10	LT1236CIS8-5	SO-8	1.2mA	2.2	3	Buried Zener Series Reference	\$2.30
5	Series	-40°C to 85°C	0.10	20	10	LT6656BIS6-5	TSOT-6	1μA	0.1	TBD	Precision, 1μA Supply Current	C.F.
5	Series	-40°C to 85°C	0.125	20	-1 to 20	LT1460EIN8-5	DIP-8	175μA	0.9	20	Output Capacitor Optional	\$2.25
5	Series	-40°C to 85°C	0.125	20	-1 to 20	LT1460EIS8-5	SO-8	175μA	0.9	20	Output Capacitor Optional	\$2.35
5	Series	-40°C to 85°C	0.20	20	±10	LT1019IN8-5	DIP-8	1.2mA	1.1	12	Precision Series Bandgap Reference	\$4.75
5	Series	-40°C to 85°C	0.20	20	±10	LT1019IS8-5	SO-8	1.2mA	1.1	12	Precision Series Bandgap Reference	\$4.85
5	Series	-40°C to 85°C	1.00	20	±10	LT1021DIN8-5	DIP-8	1.2mA	2.2	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	-3 to 5	LT1790BIS6-5	SOT-23	60μA	0.1	80	Lowest Cost Precision Series Reference also SOT-23	\$1.56
5	Series	-40°C to 85°C	0.25	25	-1 to 20	LT1460GIZ-5	TO-92	175μA	0.9	20	Lowest Temp Co. TO-92 Reference Available	\$1.70
5	Series	-40°C to 85°C/125°C	0.20	20/50	-1 to 20	LT1460LHS8-5	SO-8	175μA	0.9	20	Extended Temperature Range O/P Cap Optional	\$2.55
5	Series	-40°C to 85°C	0.20	20	0 to 10	LT1461DHS8-5	SO-8	50μA	0.3	40	Highest Precision LDO Reference Available, Shutdown	\$1.50
5	Series	-40°C to 125°C	0.025	2	±5	LTC6655BHMS8-5	MSOP-8	7mA	0.5	1.3	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
5	Series	-40°C to 125°C	0.05	5	±5	LTC6655CHMS8-5	MSOP-8	7mA	0.5	1.3	Very Low Noise, Precision, 2ppm/°C Drift, Sinks/ Sources ±5mA	C.F.
5	Series	-40°C to 125°C	0.05	5	±5	LTC6652AHMS8-5	MSOP-8	560μA	0.3	10	Precision, Low Noise, High Temperature Reference	\$3.36
5	Series	-40°C to 125°C	0.10	10	±5	LTC6652BHMS8-5	MSOP-8	560μA	0.3	10	Precision, Low Noise, High Temperature Reference	\$1.65
5	Series	-40°C to 125°C	0.20	50	-1 to 20	LT1460MHS8-5	SO-8	175μA	0.9	20	Extended Temperature Range O/P Cap Optional	\$2.20
5	Series	-55°C to 125°C	1.00	5	±10	LT1021BMH-5	TO-5	1.2mA	2.2	3	Very Low Drift, Buried Zener, Military Temp Range	\$15.00
5	Series	-55°C to 125°C	0.05	20	±10	LT1021CMH-5	TO-5	1.2mA	2.2	3	Low Drift, Buried Zener, Military Temp Range	\$8.20

† Primary Sort Column
†† Secondary Sort Column

REFERENCES

†	Output Voltage (V)	‡‡	Temperature Range (°C)	Accuracy Max 25°C (%)	TC of V _{OUT} Max (ppm/°C)	Output Current (mA)	Part Order Number	Package Type	I _o Max or Shunt Current	Dropout Voltage (V)	0.1 - 10Hz Typ Noise (μV _{P-P})	Comment	Price 1K Qty
	Shunt/Series												
	6.95		0°C to 70°C	2.00	0.5	Shunt	LM399AH	TO-46	0.5mA-10mA	Shunt	–	Excellent Temperature Stability	\$6.56
	6.95		0°C to 70°C	2.00	1	Shunt	LM399H	TO-46	0.5mA-10mA	Shunt	–	Excellent Temperature Stability	\$4.65
	7		0°C to 70°C	0.71	5	±10	LT1021BCN8-7	DIP-8	1.2mA	1.5	4	Buried Zener Series Reference	\$5.25
	7		0°C to 70°C	0.71	20	±10	LT1021DCN8-7	DIP-8	1.2mA	1.5	4	Low Cost, Buried Zener, Series Reference	\$1.75
	7		0°C to 70°C	0.71	20	±10	LT1021DCS8-7	SO-8	1.2mA	1.5	4	Low Cost, Buried Zener, Series Reference	\$3.20
	7.2		–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		–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		0°C to 70°C	0.05	5	±10	LT1019ACN8-10	DIP-8	1.0mA	1.1	25	Tight Tolerance and Low TC Bandgap Reference	\$6.25
	10		0°C to 70°C	0.05	5	±10	LT1236ACN8-10	DIP-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$2.95
	10		0°C to 70°C	0.05	5	±10	LT1236ACS8-10	SO-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$3.10
	10		0°C to 70°C	0.05	5	±10	LT1031BCH	TO-39	1.7mA	1	6	Plug-In Replacement for LH0070 and AD581	\$7.40
	10		0°C to 70°C	0.10	15	±10	LT1031CCH	TO-39	1.7mA	1	6	Plug-In Replacement for LH0070 and AD581	\$4.45
	10		0°C to 70°C	0.20	25	±10	LT1031DCH	TO-39	1.7mA	1	6	Plug-In Replacement for LH0070 and AD581	\$3.40
	10		0°C to 70°C	0.50	5	±10	LT1021BCN8-10	DIP-8	1.7mA	1.5	6	Buried Zener Series Reference	\$5.25
	10		0°C to 70°C	0.075	10	–1 to 20	LT1460ACN8-10	DIP-8	270μA	0.9	40	Output Capacitor Optional	\$2.75
	10		0°C to 70°C	0.075	10	–1 to 20	LT1460ACS8-10	SO-8	270μA	0.9	40	Output Capacitor Optional	\$3.15
	10		0°C to 70°C	0.10	10	±10	LT1236BCN8-10	DIP-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$2.35
	10		0°C to 70°C	0.10	10	±10	LT1236BCS8-10	SO-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$2.35
	10		0°C to 70°C	0.10	15	±10	LT1236CCN8-10	DIP-8	1.2mA	1.5	6	Buried Zener Series Reference	\$2.20
	10		0°C to 70°C	0.10	15	±10	LT1236CCS8-10	SO-8	1.2mA	1.5	6	Buried Zener Series Reference	\$2.20
	10		0°C to 70°C	0.10	15	–1 to 20	LT1460CCMS8-10	MSOP-8	270μA	0.9	40	Output Capacitor Optional	\$3.35
	10		0°C to 70°C	0.05	20	±10	LT1021CCN8-10	DIP-8	1.7mA	1.5	6	Buried Zener Series Reference	\$3.50
	10		0°C to 70°C	0.10	20	–1 to 20	LT1460DCN8-10	DIP-8	270μA	0.9	40	Output Capacitor Optional	\$2.00
	10		0°C to 70°C	0.10	20	–1 to 20	LT1460DCS8-10	SO-8	270μA	0.9	40	Output Capacitor Optional	\$2.05
	10		0°C to 70°C	0.20	20	±10	LT1019CN8-10	DIP-8	1.2mA	1.1	25	Precision Series Bandgap Reference	\$3.70
	10		0°C to 70°C	0.20	20	±10	LT1019CS8-10	SO-8	1.2mA	1.1	25	Precision Series Bandgap Reference	\$4.65
	10		0°C to 70°C	0.20	20	–1 to 20	LT1460HCS3-10	SOT-23	270μA	0.9	40	Only 10V SOT-23 Reference Available, O/P Cap Optional	\$3.00
	10		0°C to 70°C	0.20	20	–1 to 20	LT6660HDCDC-10	DFN	270μA	0.9	40	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.32
	10		0°C to 70°C	0.40	20	–1 to 20	LT1460JCS3-10	SOT-23	270μA	0.9	40	Only 10V SOT-23 Reference Available, O/P Cap Optional	\$2.45
	10		0°C to 70°C	0.40	20	–1 to 20	LT6660JDCDC-10	DFN	270μA	0.9	40	2mm×2mm Pkg, 20mA Output, No Output Cap	\$1.16
	10		0°C to 70°C	0.50	20	±10	LT1021DCN8-10	DIP-8	1.7mA	1.5	6	Low Cost, Buried Zener, Series Reference	\$2.65
	10		0°C to 70°C	0.50	20	±10	LT1021DCS8-10	SO-8	1.7mA	1.5	6	Low Cost, Buried Zener, Series Reference	\$3.20
	10		0°C to 70°C	0.15	25	–1 to 20	LT1460FCMS8-10	MSOP-8	270μA	0.9	40	Output Capacitor Optional	\$2.20
	10		0°C to 70°C	0.25	25	–1 to 20	LT1460GCZ-10	TO-92	270μA	0.9	40	Only TO-92 10V Series Reference Output Cap Optional	\$1.60
	10		0°C to 70°C	0.50	50	–1 to 20	LT1460KCS3-10	SOT-23	270μA	0.9	40	Only 10V SOT-23 Reference Available, O/P Cap Optional	\$1.35
	10		0°C to 70°C	0.50	50	–1 to 20	LT6660KDCDC-10	DFN	270μA	0.9	40	2mm×2mm Pkg, 20mA Output, No Output Cap	\$0.88
	10		–40°C to 85°C	0.05	5	±10	LT1236AIN8-10	DIP-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$3.55
	10		–40°C to 85°C	0.05	5	±10	LT1236AIS8-10	SO-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$3.70
	10		–40°C to 85°C	0.05	20	±10	LT1021CIN8-10	DIP-8	1.7mA	1.5	6	Buried Zener Series Reference	\$4.65
	10		–40°C to 85°C	0.10	10	±10	LT1236BIN8-10	DIP-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$2.85
	10		–40°C to 85°C	0.10	10	±10	LT1236BIS8-10	SO-8	1.2mA	1.5	6	Tight Tolerance and Low TC	\$2.85
	10		–40°C to 85°C	0.10	10	–1 to 20	LT1460BIN8-10	DIP-8	270μA	0.9	40	Output Capacitor Optional	\$4.60
	10		–40°C to 85°C	0.10	10	–1 to 20	LT1460BIS8-10	SO-8	270μA	0.9	40	Output Capacitor Optional	\$4.85
	10		–40°C to 85°C	0.10	15	±10	LT1236CIN8-10	DIP-8	1.2mA	1.5	6	Buried Zener Series Reference	\$2.65
	10		–40°C to 85°C	0.10	15	±10	LT1236CIS8-10	SO-8	1.2mA	1.5	6	Buried Zener Series Reference	\$2.65
	10		–40°C to 85°C	0.125	20	–1 to 20	LT1460EIN8-10	DIP-8	270μA	0.9	40	Output Capacitor Optional	\$2.25
	10		–40°C to 85°C	0.125	20	–1 to 20	LT1460EIS8-10	SO-8	270μA	0.9	40	Output Capacitor Optional	\$2.35
	10		–40°C to 85°C	0.20	20	±10	LT1019IN8-10	DIP-8	1.2mA	1.1	25	Precision Series Bandgap Reference	\$4.75
	10		–40°C to 85°C	0.25	25	–1 to 20	LT1460GIZ-10	TO-92	270μA	0.9	40	Only TO-92 10V Series Reference, Output Cap Optional	\$1.70
	10		–40°C to 85°C	0.50	20	±10	LT1021DIN8-10	DIP-8	1.7mA	1.5	6	Buried Zener Series Reference	\$3.50
	10		–55°C to 125°C	0.05	11	±10	LH0070-2H	TO-39	5mA	1.4	6	Low Drift Precision Reference for Series or Shunt Mode	\$8.75
	10		–55°C to 125°C	0.05	5	±10	LT1031BMH	TO-39	1.7mA	1	6	Plug-In Replacement for LH0070 and AD581	\$11.50
	10		–55°C to 125°C	0.10	17	±10	LH0070-0H	TO-39	5mA	1.4	6	Low Drift Precision Reference for Series or Shunt Mode	\$5.35
	10		–55°C to 125°C	0.10	17	±10	LH0070-1H	TO-39	5mA	1.4	6	Low Drift Precision Reference for Series or Shunt Mode	\$6.85

† 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 (mA)	Part Order Number	Package Type	I _O Max or Shunt Current	Dropout Voltage (V)	0.1 - 10Hz Typ Noise (μV _{p-p})	Comment	Price 1K Qty
10	Series	-55°C to 125°C	0.20	25	±10	LT1031DMH	T0-39	1.7mA	1	6	Plug-In Replacement for LH0070 and AD581	\$4.65
10	Series	-55°C to 125°C	1.00	5	±10	LT1021BMH-10	T0-5	1.2mA	2.2	3	Very Low Drift, Buried Zener, Military Temp Range	\$15.00
Adjust	Series	0°C to 70°C	0.10	10	±10	LTC2981CGN	SSOPN-16	1mA	0.4	18	I²C/Pin-Strapped Fixed Output Prog Reference with EEPROM	C.F.
Adjust	Series	0°C to 70°C	0.10	10	±10	LTC2981-1CGN	SSOPN-16	1mA	0.4	18	I²C/Pin-Strapped Programmable Reference with EEPROM	C.F.
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	T0-92	1mA-100mA	Shunt	-	Adjustable Shunt Regulator, Voltage from 2.5V to 36V	\$1.05
Adjust	Series	0°C to 70°C	0.50	30 Typ	±200μA	LT6650CS5	SOT-23	11μA	0.1	20	400mV Reference with Internal Amplifier	\$1.25
Adjust	Series	0°C to 70°C	5.5	30 Typ	±10	LT1635CN8	DIP-8	130μA	0.8	-	200mV Reference with Internal Amplifier	\$1.75
Adjust	Series	0°C to 70°C	5.5	30 Typ	±10	LT1635CS8	SO-8	130μA	0.8	-	200mV Reference with Internal Amplifier	\$1.95
Adjust	Series	-40°C to 85°C	0.10	10	±10	LTC2981CGN	SSOPN-16	1mA	0.4	18	I²C/Pin-Strapped Fixed Output Prog Reference with EEPROM	C.F.
Adjust	Series	-40°C to 85°C	0.10	10	±10	LTC2981-1CGN	SSOPN-16	1mA	0.4	18	I²C/Pin-Strapped Programmable Reference with EEPROM	C.F.
Adjust	Series	-40°C to 85°C	5.5	30 Typ	±10	LT1635IN8	DIP-8	130μA	0.8	-	200mV Reference with Internal Amplifier	\$2.15
Adjust	Series	-40°C to 85°C	5.5	30 Typ	±10	LT1635IS8	SO-8	130μA	0.8	-	200mV Reference with Internal Amplifier	\$2.40
Adjust	Series	-40°C to 85°C	0.5	30 Typ	±200μA	LT6650IS5	SOT-23	11μA	0.1	20	400mV Reference with Internal Amplifier	\$1.69
Adjust	Series	-40°C to 125°C	0.5	30 Typ	±200μA	LT6650HS5	SOT-23	11μA	0.1	20	400mV Reference with Internal Amplifier	\$1.69

† Primary Sort Column
 †† Secondary Sort Column

HIGH TEMPERATURE VOLTAGE REFERENCES

Part Number	Temperature Range	Output Voltage Options	Accuracy Max 25°C (%)	TC of V _{OUT} Max (ppm/°C)	Output Current	Package	Supply Voltage	Features
LT6655	-40°C to 125°C	1.25V, 2.048V, 2.5V, 3V, 3.3V, 4.096V, 5V	±0.025	2	±5mA	MSOP-8	3V to 13.2V	Precision, Ultralow Noise (0.25ppm), Low Drift, ±5mA Output
LTC6652	-40°C 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°C 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°C 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°C 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°C to 125°C	5V, 10V	±0.05	5	±10mA	T0-5	(V _{OUT} +1V) to 40V	Low Drift, 1ppm Noise, Shunt Mode or Series with ±10mA Output
LT1031	-55°C to 125°C	10V	±0.05	5	±10mA	T0-39	11V to 40V	Low Noise, Shunt or Series Modes, ±10mA Output, AD581 Replacement
LTZ1000	-55°C to 125°C	7.2V	±4	0.05	N/A (Shunt Device)	T0-5	N/A (Shunt Device)	Ultra Precision, Super Zener, 1.2μV _{p-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-23/2x3 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-23/2x3 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-23/2x3 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	2x3 DFN-6	\$4.12

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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
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

FILTERS

Part Number	Filter Order	Filters per Package	Filter Configuration	Max f _{CENTER} or f _{CUTOFF}	Clock Tunable (Y/N)	f ₀ /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 f _c , 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

† Primary Sort Column

Part Number	Filter Order	Filters per Package	Filter Configuration	† Max f _{CENTER} or f _{CUTOFF}	Clock Tunable (Y/N)	f ₀ /f _{CLK}	Supply Current (mA)	Package	Important Features	Price 1K Qty
LTC6603	9	2	Prog. LP	2.5MHz	Y	32:1	175	4x4 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	4x7 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	4x7 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	6x3 DFN-22	Matched Gain/Phase Differential Amps + 7MHz LP Filters	\$6.95
LT6604-10	4	2	Chebyshev	10MHz	N	n/a	78	4x7 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	6x3 DFN-22	Matched Gain/Phase Differential Amps + 10MHz LP Filters	\$6.95
LTC6605-14	2	2	Butterworth	14MHz	N	n/a	45	6x3 DFN-22	Matched Gain/Phase Differential Amps + 14MHz LP Filters	\$6.95
LT6604-15	4	2	Chebyshev	15MHz	N	n/a	78	4x7 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	4x4 QFN-20	Pin-Configurable Low Noise, High Performance Differential LPF/Amplifier	\$3.95
LTC6601-2	2	1	Butterworth	5MHz-27MHz	N	n/a	25	4x4 QFN-20	Pin-Configurable Low Power, Low Distortion Differential LPF/Amplifier	\$3.95
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 × 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	4x4 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	4x4 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

Amps, Refs, Filters, Comps
Power Management
Data Conversion
Interface
RF/Wireless
Space, Military, Harsh Envir.
Reference Material

HIGH SPEED COMPARATORS

Part Number	Number Per Pkg	Prop Delay (ns)	Output Rise/Fall Time (ns)	Ma 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

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

SILICON OSCILLATORS

Part Number	Program Method	Frequency Range	Frequency Accuracy Max 25°C (%)	Frequency Temperature Drift (ppm/°C)	50% Duty Cycle Variation	Timing Jitter (%)	Supply Voltage		Supply Current Max 25°C	Package	Comments	Price
							Min (V)	Max (V)				
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 Multiphase Outputs, 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
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 ² C	1kHz to 68MHz	1.1	10	±1%	0.40	2.7	6	3.1mA @ 1MHz	MSOP-8	I ² C 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
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 ² C	1kHz to 68MHz	1.1	10	±1%	0.40	2.7	6	3.1mA @ 1MHz	MSOP-8	I ² C Interface with Enable	\$2.10
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

† Primary Sort Column

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

RMS-TO-DC CONVERTERS

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 (μ A)	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	\pm 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	\pm 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

Amps, Refs,
Filters, Comps

Power
Management

Data
Conversion

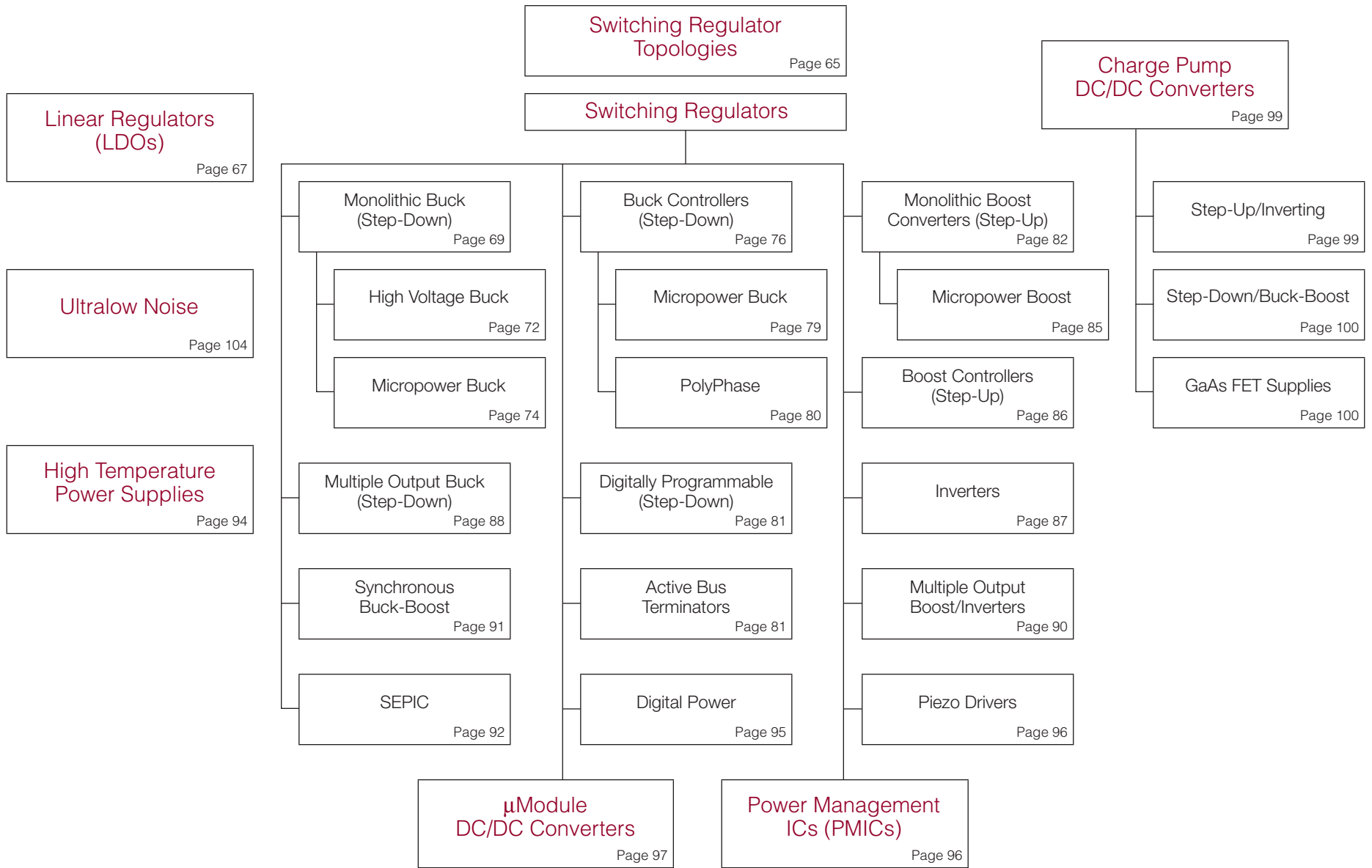
Interface

RF/Wireless

Space, Military,
Harsh Envir.

Reference
Material

Power Management



Amps, Refs,
Filters, Comps

Power
Management

Data
Conversion

Interface

RF/Wireless

Space, Military,
Harsh Envir.

Reference
Material

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

Power Management

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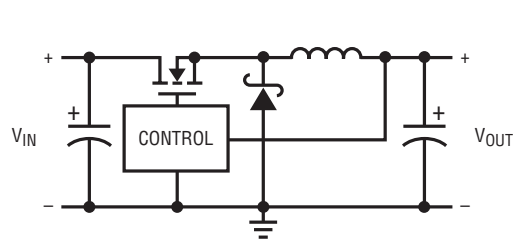
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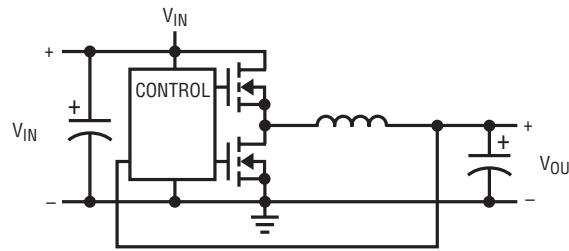
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Buck Regulator



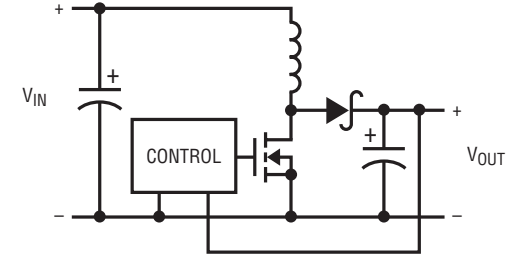
- $V_{OUT} < V_{IN}$
- $I_{OUT} \approx 0.8 \cdot I_{SW}$
- Switching Frequency 100kHz to 4MHz
- Monolithic and Controllers

Synchronous Buck Regulator



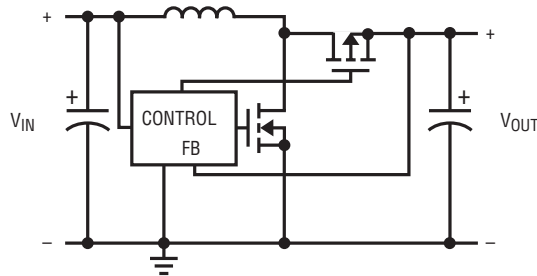
- Higher Efficiency than Standard Buck
- Switching Frequency up to 4MHz
- Combined for PolyPhase Operation from 60A to 240A

Boost Regulator



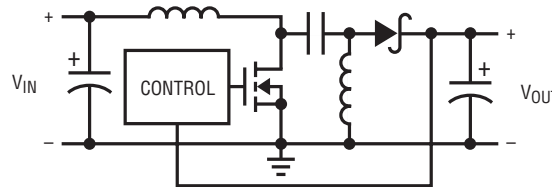
- $V_{OUT} > V_{IN}$
- $I_{OUT} \approx 0.64 \cdot \frac{V_{IN}}{V_{OUT}} \cdot I_{SW}$
- Monolithic and Controllers
- Switching Frequency up to 3MHz

Synchronous Boost Regulator



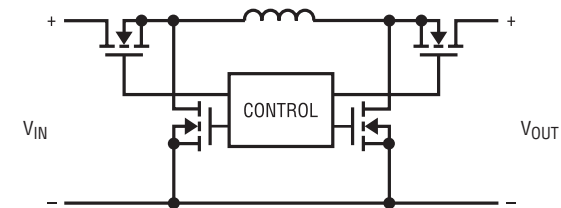
- Better Efficiency than Standard Boost
- Best for Low $\frac{V_{OUT}}{V_{IN}}$ Ratios

SEPIC



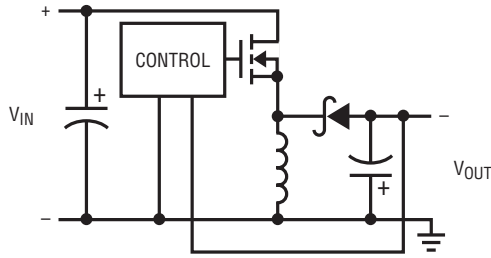
- V_{IN} Ranges from Above V_{OUT} to Below V_{OUT}
- Monolithic and Controllers
- Small Inductors

Synchronous Buck-Boost



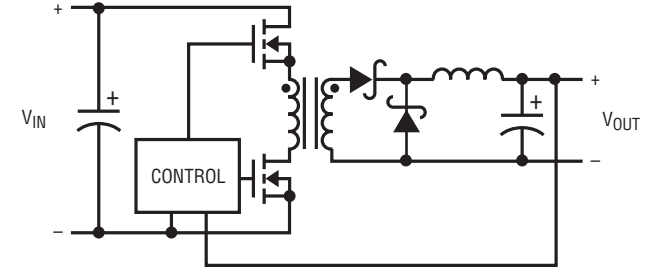
- Best Efficiency vs SEPIC
- Battery Disconnect
- True Buck and Boost Topologies

Buck/Boost Inverter



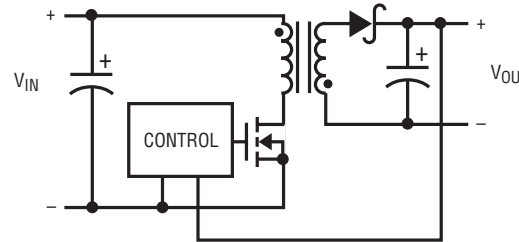
- $V_{IN} < |V_{OUT}|$
- Monolithic Solutions

Dual Transistor forward Regulator



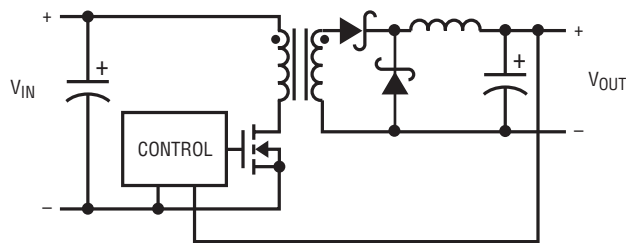
- Higher Output Power than Flyback
- Smaller Transformer than Flyback
- Higher Efficiency than Flyback
- Second Inductor Required

Flyback Regulator



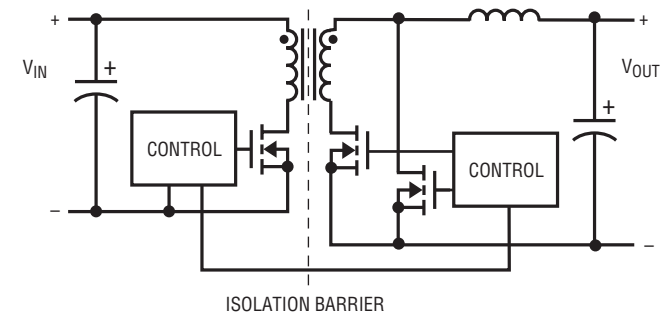
- Isolated and Nonisolated
- High $\frac{V_{OUT}}{V_{IN}}$ Ratios
- 80% plus Efficiency
- Simple

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)

Table with columns: Part Number, Output Current (A), VIN Min (V), VIN Max (V), Reference Voltage (V), Dropout Voltage (V@IOUT), IO (Supply) (uA), Shutdown Current (uA), Output Voltage (V), Package, Extended Temp Range, Comments, Price 1K Qty. Rows include various LDO models like LT3014, LT3014HV, LT3014B, etc.

† Primary Sort Column

Amps, Refs, Filters, Comps

Power Management

Data Conversion

Interface

RF/Wireless

Space, Military, Harsh Envir.

Reference Material



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
LT3080/-1	1.1	1.2	36	Current 10μA	0.35 (1.35) (SOT-223)	1mA	n/a	Adj (0 to 35.7)	3×3 DFN-8, MSOP-8, SOT-223, TO-220, DD-5	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
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	eTSSOP-16, 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, eTSSOP-16	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
LT3070	5	0.95	3	0.80	0.09	0.7	n/a	0.8V to 1.8V	4×5 QFN-28	E, I, MP	Fast Transient Response, Low 25μV_{RMS} Noise, Digitally Programmed V_{OUT}, Pin-Selectable Digital Margining, Can Parallel For Higher I_{OUT}	\$4.20
LT3071	5	0.95	3	0.80	0.09	0.7	n/a	0.8V to 1.8V	4×5 QFN-28	E, I, MP	Fast Transient Response, Low 25μV_{RMS} Noise, Digitally Programmed V_{OUT}, Analog Margining to ±10%, I_{OUT} Current Monitor, Can Parallel For Higher I_{OUT}	\$4.20
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
Dual Positive and Negative Regulators												
LT3032	0.15×2	±1.9	±20	±1.22	0.30/-0.34	55	<1	±2.5, ±3.3, ±5	4×3 DFN-14	TBD	Dual ±150mA LDO in a Single Package	C.F.
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 _{SDN} (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT1956	5.5	60	1.2	0.75V _{IN}	1.2	1.5	–	yes	500kHz	2.5mA	25	eTSSOP-16	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	eTSSOP-16	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	eTSSOP-16	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	eTSSOP-16	I	60V Input and I _Q =100μA	\$4.00
LT1879	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, eTSSOP-16	E, I	Triple, Synchronous, 100% Duty Cycle, PGOOD Pin, Programmable 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, eMSOP-10	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	eTSSOP-20, 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, eTSSOP-16	I	Dual 2A, 36V Switches in eTSSOP-16	\$3.35
LT1940	3.6	25	1.25	0.78V _{IN}	1.4 × 2	1.8	–	–	1.1MHz	3.8mA	30	eTSSOP-16	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	eTSSOP-16	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	eMSOP-8	H	36V Input, 1.9A Switch	\$2.75
LTC3601	4	15	0.6	0.9V_{IN}	1.5	1.7	yes	yes	800kHz to 4MHz	300	25	3×3 DFN-16, eMSOP-16	E, I	Synchronous, Low 5% Duty Cycle Operation Is Ideal for High Step-Down Ratios, Fast Transient Response, Soft-Start, PGOOD Pin	\$2.30
LTC3417A-1/-2	2.25	5.5	0.8	V _{IN}	1.5/1.0	1.8	yes	yes	600kHz to 4MHz	125	<1	eTSSOP-20, 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	eTSSOP-16, 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
LT3980	3.6	58/80	0.8	0.95V_{IN}	2	3.3	–	yes	250kHz to 2MHz	82	<1	3×4 DFN-16, eMSOP-16	E, I, H	V_{IN} to 58V, 80V Transient Protection (Catch-Diode Current Sense), Micropower, 15mV_{p-p} Low Ripple Burst Mode	\$3.55
LT3480	3.6	38/60	0.8	0.9V _{IN}	2.0	3.0	–	yes	260kHz to 2MHz	70	<1	3×3 DFN-10, eMSOP-10	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, eMSOP-10	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, eMSOP-10	I	2A, 36V Step-Down	\$2.95
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, eMSOP-10	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, eMSOP-10	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, eMSOP-16	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, eMSOP-16	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	eTSSOP-20	E	Dual 2.5A Switches in eTSSOP-20	\$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	eTSSOP-16	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	eTSSOP-16	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, eTSSOP-16	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	eTSSOP-16, 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	eMSOP-16, 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	eTSSOP-16, 4×4 QFN-16	E	Synchronous, 100% Duty Cycle, 95% Efficiency	\$3.95

† Primary Sort Column

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 Pinout, “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, eMSOP-10	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

† Primary Sort Column
 †† Secondary Sort Column

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
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
LTC3775	4.5	36/40	0.6	0.95V _{IN}	25	yes	yes	250kHz to 1MHz	optional	3mA	3×3 QFN-16, eMSOP-16	E, I	Low 50ns Min On-Time for High Step-Down Ratios	C.F.
LTC3833	4.5	38	0.6	5	25	yes	yes	200kHz to 2MHz		2mA	3×3 QFN-20, TSSOP-20	E, I	Controlled On Time, Constant Frequency, Fast Transient Response, Diff Output Voltage Sensing, R _{SENSE} or DCR Sensing	C.F.
LTC3854	4.5	38/40	0.8	5.5	25	yes	-	400kHz		2mA	2×3 DFN-12, eMSOP-12	E, I	Wide V _{IN} Range, Small 2×3 DFN Package, R _{SENSE} or DCR Current Sensing	\$1.65
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 EXT _{VCC} .	\$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
LTC3851/-1	4	38	0.8	5.5	25	yes	yes	250kHz to 780kHz	yes	1mA	3×3 QFN-16, SSOP-16, eMSOP-16	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
LTC3857/-1	4	38	0.8	24	25×2	yes	yes	50kHz to 900kHz		80	5×5 QFN-32 ("Plain"), SSOP-28 ("-1")	E, I	Dual, 2-Phase, 80μA I _Q , Selectable Continuous, Pulse-Skip or Burst Mode Operation, R _{SENSE} or DCR Sensing, PLL, PGOOD Pins, "-1" Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$4.47
LTC3858/-1	4	38	0.8	24	25×2	yes	yes	50kHz to 900kHz		300	5×5 QFN-32 ("Plain"), SSOP-28 & 4×5 QFN-28 ("-1")	E, I	Dual, 2-Phase, 300μA I _Q , Selectable Continuous, Pulse-Skip or High Efficiency Burst Mode Operation, R _{SENSE} or DCR Sensing, PLL, Short Circuit Latch-Off Protection, PGOOD Pins, "-1" Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$4.47
LTC3855	4.5	38	0.6	13	25	yes	yes	250kHz to 770kHz		3.5mA	6×6 QFN-40, eTSSOP-38	E, I	Dual, 2-Phase (180° Apart), R _{SENSE} or DCR Current Sensing, Diff Amp Output Sensing, Configurable for Multiphase Operation	C.F.
LTC3812-5	4.2	60	0.8	0.93V _{IN}	25	yes	-	100kHz to 1MHz	optional	3mA	eTSSOP-16	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		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

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, eMSOP-10	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, eMSOP-10	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
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
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
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
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
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, EXT _{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} , EXT _{CC} or CLOCKOUT Pins	\$3.40
LT3800	4	60	1.236	36	20	yes		200kHz		100	TSSOP-16	I	High Voltage, Fixed Frequency	\$3.10
LT3845	4	60	1.23	36	20	yes		100kHz to 500kHz		120	TSSOP-16	E, I	High Voltage, Low Quiescent Current	\$3.55
LTC3868/-1	4	24	0.8	14	25×2	yes	yes	50kHz to 900kHz		300	5×5 QFN-32 ("Plain"), SSOP-28 & 4×5 QFN-28 ("-1")	E, I	Dual, 2-Phase, 300μA I_Q, Selectable Continuous, Pulse-Skip or High Efficiency Burst Mode Operation, R_{SENSE} or DCR Sensing, PLL, Short Circuit Latch-Off Protection, PGOOD Pins, "-1" Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$2.59
LTC3826	4	36	0.8	10	25×2	yes	yes	140kHz to 650kHz		50	5×5 QFN-32	E, I	Dual, 2-Phase, Low I _Q , 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	Leaded Package Version of LTC3826	\$5.38
LTC3827	4	36	0.8	10	25×2	yes	yes	140kHz to 650kHz		115	5×5 QFN-32	E, I	Dual, 2-Phase, Low I _Q , Selectable 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	Leaded Package Version of LTC3827	\$5.00
LTC3857/-1	4	38	0.8	24	25×2	yes	yes	50kHz to 900kHz		80	5×5 QFN-32 ("Plain"), SSOP-28 ("-1")	E, I	Dual, 2-Phase, 80μA I_Q, Selectable Continuous, Pulse-Skip or Burst Mode Operation, R_{SENSE} or DCR Sensing, PLL, PGOOD Pins, "-1" Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$4.47
LTC3858/-1	4	38	0.8	24	25×2	yes	yes	50kHz to 900kHz		300	5×5 QFN-32 ("Plain"), SSOP-28 & 4×5 QFN-28 ("-1")	E, I	Dual, 2-Phase, 300μA I_Q, Selectable Continuous, Pulse-Skip or High Efficiency Burst Mode Operation, R_{SENSE} or DCR Sensing, PLL, Short Circuit Latch-Off Protection, PGOOD Pins, "-1" Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$4.47

† Primary Sort Column

Amps, Refs, Filters, Comps
Power Management
Data Conversion
Interface
RF/Wireless
Space, Military, Harsh Envir.
Reference Material

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 ₀ (µA)	Frequency Per Phase	No Sense Resistor	Package	Extended Temp Range	Comments	Price 1K Qty
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

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	2.75	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 _{IT}) = 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} = 1/2V _{IN} ; "-1" Has V _{OUT} = 1/2V _{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/I ² C		2.5	5.5	0.69	2.05	0.6	Internal, Synchronous	4×4 QFN-24	E	\$2.45
LTC3447		1	SMBus/I ² C		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/I ² C		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

† Primary Sort Column

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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
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-38	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/I ² C				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

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		I _O (I _{SUPPLY}) (μA)	I _{SHDN} (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
							–	Switching Frequency ⁽⁴⁾						
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
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
LT3582		2.4	5.5	12.8	0.18 * V_{IN}/V_{OUT}	0.29 & 0.49	–	APC	325	<1	3×3 QFN-16	E	290mA Boost and 490mA Inverter, OTP Memory Allows User-Settable V_{OUT} and Sequencing (“Plain” Version), I²C interface Allows Digital Reprogramming, “-5” and “-12” Are Preconfigured for ±5V and ±12V Outputs, Respectively	\$2.25
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
LT3571		2.7	20	75	Up to 4mA	0.35	–	250kHz to 2MHz	2.7mA	<1	3×3 QFN-16	E, I	APD Bias or General Purpose High Voltage (to 75V) Boost, Integrated APD Current Monitor and Schottky Diode	\$2.45
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/A		2.7	16	30	0.26 * V _{IN} /V _{OUT}	0.4	–	1.2/2.4MHz	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

† Primary Sort Column

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_O (I_{SUPPLY}) (μA)	I_{SHDN} (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
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	eMSOP-8	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	eMSOP-10	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 $V_{DD} \geq 2.7V$, 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	I	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	eTSSOP-28	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	eMSOP-8	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
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	eTSSOP-16	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	eTSSOP-20, 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	eTSSOP-20, 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 Operating ^(1,2) (V)	V _{IN} Min (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)	Shut-Down Current (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3402	0.5	1	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	2.7	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	1	4.5	5.25	1.95 * V _{IN} /V _{OUT}	3	yes	3MHz	12	<1	4x4 QFN-24	E	Integrated Output Disconnect, Programmable Soft-Start, Current Limit	\$3.50
LTC3425	0.5	1	4.5	5.25	3.25 * V _{IN} /V _{OUT}	5	yes	8MHz	16	<1	5x5 QFN-32	E	4-Phase Operation for Small Size, Low Ripple	\$4.38

† 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 x I_{SWITCH} x (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

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
LTC3803/-3	9.2	75 ⁽¹⁾	52	3	–	200kHz to 300kHz	TSOT-23	E, I, H	Optimized to Drive 6V N-FETs	\$1.12
LTC3803-5	5.7	75 ⁽¹⁾	52	3	–	200kHz	TSOT-23	E, I, H	Optimized to Drive 4.5V N-FETs	\$1.12
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, 3x2 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, 3x2 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, 3x2 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, 3x2 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, 3x2 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
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
LT3757	2.9	40	4 and higher	10	–	100kHz to 1MHz	3x3 DFN-10, eMSOP-10	E, I	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.06
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
LT3758	5.5	100	5 and higher	10	–	100kHz to 1MHz	3x3 DFN-10, eMSOP-10	E, I	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.35

† Primary Sort Column

†† Secondary Sort Column

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
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, 4x5 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, 5x5 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, 5x5 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	3x3 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, eTSSOP-16	I	Inductor Size Reduced to 1.8μH	\$3.50
LT1377/HV	2.7	30/42	-35/-42	1.5	1MHz	4mA	12	SO-8, eTSSOP-16	I	Inductor Size Reduced to 1.8μH	\$3.50
LT3580	2.5	32	-42	2.0	200kHz to 2.5MHz	1mA	<1	3x3 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	4x3 DFN-14, eTSSOP-16/	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
LT3757	2.9	40	-1 and lower	5	100kHz to 1MHz	1.6mA	<1	3x3 DFN-10, MSOP-10	E, I	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.06
LT3758	5.5	100	-1 and lower	5	100kHz to 1MHz	1.6mA	<1	3x3 DFN-10, eMSOP-10	E, I	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.35
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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

MULTIPLE OUTPUT BUCK (STEP-DOWN)

Part Number	† Number of Converters	Number of Step-Downs	Number of LDOs	Other	VIN Min (V)	VIN Max (V)	VOUT Min (V)	VOUT Max (V)	†† Output Current (A)	Synchronous	PolyPhase	Switching Frequency	Package	Extended Temp Range		Price 1K Qty
														Comments	Comments	
Internal Switch																
LTC3456	2 or 3	2	0 or 1		1.8	3.2 (Batt) or USB	0.8	VIN	0.25 x 2 (Buck)	yes	-	1MHz	4x4 QFN-24	E	Targets 2 AA Cells, PowerPath Control, Hot Swap Output, 1mA Always-On VMAX Output, Uncommitted Op Amp for LDO	\$3.95
LTC3547/B	2	2	0		2.5	5.5	0.6	VIN	0.3x2	yes	-	2.25MHz	2x3 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	3x3 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	3x3 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	VIN	0.5(Buck)/0.3(LDO)	yes	-	2.25MHz	3x3 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	VIN	0.6x2	yes	-	2.25MHz	eMSOP-10, 3x3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency	\$1.95
LTC3407/A	2	2	0		2.5	5.5	0.6	VIN	0.6x2	yes	-	1.5MHz	eMSOP-10, 3x3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency, "A" Has Soft-Start	\$2.60
LTC3520	2 or 3	1	0 or 1	Buck-Boost (1A)	2.2	5.5	0.8	VIN	0.6(Buck) & 1.0(BB)	yes	-	100kHz to 2MHz	4x4 QFN-24	E	Dual Output, Synchronous, Pin-Selectable Burst Mode, Uncommitted Op Amp for Optional LDO Controller	\$3.50
LT3509	2	2	0		3.7	36/60	0.8	0.9VIN	0.7x2	-	-	250kHz to 2.5MHz	4x3 DFN-14	E, I, H	Dual, OV Lockout Provides 60V Transient Protection, Integrated Boost Diodes	\$2.95
LTC3548/A/-1/-2	2	2	0		2.5	5.5	0.6	VIN	0.8/0.4	yes	-	2.25MHz	eMSOP-10, 3x3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; Adjustable Outputs, "A" Has Improved Performance and 116ms POR Delay, "Plain" Has 29ms POR Delay, "-1" Has Fixed 1.8V and 1.575V Outputs, "-2" Has fixed 1.2V and an Adjustable Output	\$2.60
LTC3619/B	2	2	0		2.5	5.5	0.6	5	0.8/0.4	yes	-	2.25MHz	3x3 DFN-10, eMSOP-10	E, I	Dual Output, Synchronous, 100% Duty Cycle, 5% Accurate Average Input Current Limit, Adj. Output	\$2.25
LTC3552/-1	2	2	0		2.5	5.5	0.6	5	0.8/0.4	yes	-	2.25MHz	5x3 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	VIN	0.8x2	yes	-	2.25MHz	eMSOP-10, 3x3 DFN-10	E	Dual Output, Synchronous, 100% Duty Cycle, 96% Efficiency; "-2" Version of LTC3407 Increases IOUT 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	VIN	1.4/0.8	yes	-	600kHz to 4MHz	eTSSOP-20, 5x3 DFN-20	E	Synchronous, 100% Duty Cycle, 95% Efficiency	\$3.35
LT3508	2	2	0		3.7	36	0.8	0.9VIN	1.4x2	-	-	250kHz to 2.5MHz	4x4 QFN-24, eTSSOP-16	I	Dual 2A, 36V Switches in eTSSOP-16	\$3.35
LT1940	2	2	0		3.6	25	1.25	0.9VIN	1.4x2	-	-	1.1MHz	eTSSOP-16	E	Dual Switches in Single eTSSOP-16	\$3.70
LT1940L	2	2	0		3.6	7	1.25	0.9VIN	1.4x2	-	-	1.1MHz	eTSSOP-16	E	Dual Internal Switches, 7V max VIN	\$2.70
LTC3417A	2	2	0		2.25	5.5	0.8	VIN	1.5/1	yes	-	600kHz to 4MHz	eTSSOP-20, 5x3 DFN-20	E	Synchronous, 100% Duty Cycle, 95% Efficiency	\$3.45
LT3506/A	2	2	0		3.6	25	0.8	0.9VIN	1.6x2	-	-	575kHz/1.1MHz	eTSSOP-16, 5x4 DFN-16	E	Dual Switches in eTSSOP-16 or DFN	\$2.95
LT1939	2	1	1		3	25	0.8	0.9VIN	2 (Buck)/5 (LDO) ⁽¹⁾	-	-	250kHz to 2.2MHz	3x3 DFN-10, eMSOP-16	E, I, H	2A 25V Step-Down with LDO Controller	\$3.05
LT3500	2	1	1		3	36	0.8	0.9VIN	2 (Buck)/5 (LDO) ⁽¹⁾	-	-	250kHz to 2.2MHz	3x3 DFN-10, eMSOP-16	E, I	2A 36V Step-Down with LDO Controller	\$3.25
LT3510	2	2	0		3.3	25	0.8	0.9VIN	2.0x2	-	-	250kHz to 1.5MHz	eTSSOP-20	E	Dual 2.5A Switches in eTSSOP-20, Tracking	\$3.25
LT3501	2	2	0		3.3	25	0.8	0.9VIN	3.0x2	-	-	250kHz to 1.5MHz	eTSSOP-20	E	Dual 3.5A Switches in eTSSOP-20	\$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	3x3 QFN-10	E	Boost with LDO on Output Plus Buck	\$3.10
LTC3670	3	1	2		2.5	5.5	0.8	VIN	0.4(Buck)/0.15(LDO) x 2	yes	-	2.25MHz	2x3 DFN-12	E	Triple Output with Two Low Noise LDOs	\$1.95
LTC3672B	3	1	2		2.9	5.5	1.2	VIN	0.4(Buck)/0.15(LDO) x 2	yes	-	2.25MHz	2x3 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) x 2	yes	-	1.5MHz	4x4 QFN-24	E	I ² C Controllable Output Voltage	

† Primary Sort Column
 †† Secondary Sort Column

MULTIPLE OUTPUT BUCK (STEP-DOWN)

Part Number	† Number of Converters	Number of Step-Downs	Number of LDOs	Other	VIN Min (V)	VIN Max (V)	VOUT Min (V)	VOUT Max (V)	†† Output Current (A)	Synchronous PolyPhase		Switching Frequency	Package	Extended Temp Range		Price 1K Qty
										yes	no			Comments		
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, eTSSOP-16	E, I	Triple, Synchronous, 100% Duty Cycle, PGOOD Pin, Programmable 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, eTSSOP-20	I, E	Synchronizable to 2.5MHz Boost Converter Has 60V Max V _{SWITCH} , LDO Controller Drives External NPN	\$2.95
LT1941	3	2	0	Boost/Inv	3.5	25	0.6	V _{IN} ×0.9	2.5 & 1.5 (Bucks) & 0.5 (Boost/Inv)	–	–	1.1MHz	eTSSOP-28	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
LTC3101	4	2	1	Buck-Boost (0.8A)	1.8	5.5	0.6	V _{IN}	0.35×2 (Buck)/1.0(BB)/0.05 (LDO)	yes	–	1.3MHz	4×4 QFN-24	E	PowerPath Control, 200mA MAX Output Tracks Higher of USB or V _{BAT} , 100mA Hot Swap Output	\$3.95
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 ² C 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 EXT _{VCC} 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
LTC3868/-1	2	2	0		4	24	0.8	14	25×2	yes	2	50kHz to 900kHz	5×5 QFN-32 (“Plain”), SSOP-28 & 4×5 QFN-28 (“-1”)	E, I	Dual, 2-Phase, 300μA I _Q , Selectable Continuous, Pulse-Skip or High Efficiency Burst Mode Operation, R _{SENSE} or DCR Sensing, PLL, Short Circuit Latch-Off Protection, PGOOD Pins, “-1” Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$2.59
LTC3857/-1	2	2	0		4	38	0.8	24	25×2	yes	2	50kHz to 900kHz	5×5 QFN-32 (“Plain”), SSOP-28 (“-1”)	E, I	Dual, 2-Phase, 80μA I _Q , Selectable Continuous, Pulse-Skip or Burst Mode Operation, R _{SENSE} or DCR Sensing, PLL, PGOOD Pins, “-1” Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$4.47
LTC3858/-1	2	2	0		4	38	0.8	24	25×2	yes	2	50kHz to 900kHz	5×5 QFN-32 (“Plain”), SSOP-28 & 4×5 QFN-28 (“-1”)	E, I	Dual, 2-Phase, 300μA I _Q , Selectable Continuous, Pulse-Skip or High Efficiency Burst Mode Operation, R _{SENSE} or DCR Sensing, PLL, Short Circuit Latch-Off Protection, PGOOD Pins, “-1” Has One PGOOD Pin and No PHASMOD or ILIM Pins	\$4.47
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

† Primary Sort Column
†† Secondary Sort Column



Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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		Price 1K Qty
														Comments	Comments	
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
LTC3859	3	2	0	Boost	4.5	38	0.8	24	10×2 & Boost	yes	2	100kHz to 1MHz	5×7 QFN-38, eTSSOP-38	E, I	Sync Dual Buck Plus Boost Controller, Boost Output to 60V, 100µA I_Q, Outputs Stay in Regulation During Cold-Crank, R_{SENSE} or DCR Sensing	C.F.
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

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
LT3582	2.4	5.5	12.8	0.18 *V_{IN}/V_{OUT}	0.29 & 0.49	Internal	APC	325	<1	3×3 QFN-16	E	290mA Boost and 490mA Inverter, OTP Memory Allows User-Settable V_{OUT} and Sequencing (“Plain” Version), I²C interface Allows Digital Reprogramming, “-5” and “-12” are Preconfigured for ±5V and ±12V Outputs, Respectively	\$2.25
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
LTC3100	0.7	5	5.25	0.46 *V _{IN} /V _{OUT}	0.7/0.25	Internal	1.5MHz	16	<1	3×3 QFN-16	E	Triple Output Synchronous Dual Channel Boost and Buck Converter with 100mA LDO	\$3.10
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

† 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 ⁽²⁾ (A)	Switch Configuration	Switching Frequency	I _O (I _{SUPPLY}) (μA)	Shutdown Current (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
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	0.9A Boost and 0.7A 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	eMSOP-10/	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/(Buck)	Internal	500kHz to 2.5MHz	7mA	<1.5	4×4 QFN-24, eTSSOP-20	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	eTSSOP-28	E	High Current Quad Output Regulator for TFT-LCD Displays	\$4.75
LT3859	4.5	38	60	— ⁽³⁾	— ⁽³⁾	External	100kHz to 1MHz	100	<20	5×7 QFN-38, eTSSOP-38	E, I	Sync Boost Plus Dual Sync Buck Controller, Boost Output to 60V, 100μA I_O, Outputs Stay in Regulation During Cold-Crank, R_{SENSE} or DCR Sensing	C.F.

† Primary Sort Column

Notes:

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

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 _O (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	—	eTSSOP-16	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
LTC3534	2.4	7	1.8	7	0.50	1.0	1MHz	25	<1	yes	5×3 DFN-16, SSOPN-16	E	True Buck-Boost Topology, V_{IN} and V_{OUT} to 7V for Four Series Alkaline Batteries	\$3.15
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
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, eMSOP-10	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 ⁽¹⁾	I _Q (I _{SUPPLY}) (μA)	Shutdown Current (μA)	Package	Comments	Price 1K Qty
Monolithics										
LT1615-1	1	15	34	0.08	COT	20	<1	ThinSOT	Operates with V _{IN} to 1V, -1 Version Has 75mA Current Limit	\$1.65
LT3464	2.3	10	34	0.085	COT	25	<1	ThinSOT	Integrated Schottky Diode and Output Disconnect	\$1.50
LT3463/A	2.4	15	40	0.25/0.4	COT	40	<1	3×3 DFN-10	Dual with Integrated Schottky Diodes	\$1.95
LT1615	1	15	34	0.3	COT	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
LT3495-1/B-1	2.5	16	40	0.35	APC	60	<1	3×2 DFN-10	Output Disconnect, Low Noise, /B Disables Burst Mode Operation	\$1.75
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	COT	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
LT3495/B	2.5	16	40	0.65	APC	60	<1	3×2 DFN-10	Output Disconnect, Low Noise, /B Disables Burst Mode Operation	\$1.75
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
LT3471	2.4	16	16	1.3	1.2MHz	2.5mA	<1	3×3 DFN-10	Dual SEPIC, Boost or Inverter	\$2.80
LT1941	3.5	25	25	1.5	1.1MHz	2mA	<75	eTSSOP-28	Dual Buck Plus SEPIC, Boost or Inverter	\$5.25
LT1961	3	25	34	1.5	1.25MHz	0.9mA	<6	eMSOP-8		\$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, eTSSOP-20	Two Rail-to-Rail Current Sense Amps	\$3.15
LT3436	3	25	34	3	800kHz	0.9mA	<1	eTSSOP-16	3A, 34V Internal Switch	\$2.75
LT1374/HV	5	25/32	25	4.5	500kHz to 1MHz	2.5mA	<20	SO-8, eTSSOP-16, DD-7, TO-220	Buck Regulator Configurable as SEPIC, HV Version V _{IN} to 32V	\$4.40
LT1370/HV	2.7	30	35/42	6	500kHz	4.5mA	<12	DD, TO-220	Regulates Positive or Negative Outputs, Synchronizable	\$6.05
Controllers										
LTC3803/-3	9.2	75 ⁽²⁾	52	— ⁽²⁾	200kHz or 300kHz	240	<10	ThinSOT-6	Small Package, Programmable Slope Compensation	\$1.12
LTC3803-5	5.7	75 ⁽²⁾	52	— ⁽²⁾	200kHz	240	<10	ThinSOT-6	Small Package, Programmable Slope Compensation	\$1.12
LTC3872	2.75	9.8	8	— ⁽²⁾	550kHz	250	<20	ThinSOT-8, 3×2 DFN-8	No R _{SENSE} , Pulse skipping at light loads	\$1.80
LT1872/B	2.5	9.8	9.8	— ⁽²⁾	550kHz	270	<22	SOT-23-6	/B Version Does Not Have Burst Mode Operation	\$1.80
LTC3805	8.8	75 ⁽²⁾	52	— ⁽²⁾	70kHz to 700kHz	360	<40	3×3 DFN-10, MSOP-10	Synchronizable, Programmable Slope Compensation	\$1.39
LTC3805-5	4.5	75 ⁽²⁾	52	— ⁽²⁾	70kHz to 700kHz	360	<40	3×3 DFN-10, MSOP-10	Synchronizable, Programmable Slope Compensation	\$1.39
LT1619	1.9	18	15	— ⁽²⁾	300kHz to 550kHz	9mA	<40	MSOP-8, SO-8	Low V _{IN} capability	\$1.99
LTC3783	3	36	36	— ⁽²⁾	20kHz to 1MHz	1.5mA	20	5×4 DFN-16, eTSSOP-16	Current Mode Device That Drives Ext. N & P Channel FETs, True Color PWM Dimming	\$2.85
LTC1624	3.5	36	30	— ⁽²⁾	200kHz	550	<30	SO-8	Wide V _{IN} Range, Burst Mode Operation	\$3.50
LT1950	3	75 ⁽²⁾	52	— ⁽²⁾	100kHz to 500kHz	2.3mA	<20	SSOP-16	Programmable Slope Compensation	\$2.90
LT3757	2.9	40	0.8 and higher⁽²⁾	— ⁽²⁾	100kHz to 1MHz	1.6mA	<1	3×3 DFN-10, MSOP-10	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.06
LT3758	5.5	100	0.8 and higher⁽²⁾	— ⁽²⁾	100kHz to 1MHz	1.6mA	<1	3×3 DFN-10, eMSOP-10	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.35
LTC1871-1	2.5	36	30	— ⁽²⁾	50kHz to 1MHz	250	<10	MSOP-10	Boost Controller, Burst Mode Operation begins at a lighter load than the LTC1871	\$2.55

† Primary Sort Column

Part Number	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Max (V)	† Switch Current (A)	Switching Frequency ⁽¹⁾	I _Q (I _{SUPPLY}) (μA)	Shutdown Current (μA)	Package	Comments	Price 1K Qty
LTC1871-7	6	36	30	— ⁽²⁾	50kHz to 1MHz	250	<10	MSOP-10	Boost Controller, drives 6V gate MOSFETs	\$2.55
LTC1871	2.5	36	30	— ⁽²⁾	50kHz to 1MHz	250	<10	MSOP-10	Boost Controller, E, I & H Grades	\$2.55
LTC3873	8.8	75 ⁽²⁾	52	— ⁽²⁾	200kHz	300	<100	ThinSOT, 2×3 DFN-8	No R _{SENSE} , Constant Frequency	\$1.25
LTC3873-5	4	75 ⁽²⁾	52	— ⁽²⁾	200kHz	300	<80	ThinSOT, 2×3 DFN-8	No R _{SENSE} , Constant Frequency	\$1.25
LT3844	4	60	36	— ⁽²⁾	100kHz to 600kHz	80	<15	TSSOP-16	Very Low quiescent current	\$3.10
LT3724	4	60	36	— ⁽²⁾	200kHz	1.7mA	<10	TSSOP-16	Also Buck and Boost	\$3.10
LTC3862	4	36	36	— ⁽²⁾	75kHz to 500kHz	1.8mA	<80	eTSSOP-24	PolyPhase High Power Boost/SEPIC Controller	\$3.29

† Primary Sort Column

Note:
 1. COT = Constant Off Time, APC = Adaptive Power Control
 2. 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
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

† Primary Sort Column



Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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
LT1947	2.6	8	30	0.83 * V _{IN} /V _{OUT}	1.0	3MHz	9.5mA	<1	eMSOP-10	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	eMSOP-8	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	eTSSOP-28	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	eTSSOP-16	E	3A, 34V Internal Switch	\$2.75

† Primary Sort Column

Note:

- Output current is estimated using the equation in the column, i.e., 0.06 × 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	eTSSOP-16	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	\$3.76
LT1766H	5.5	60	1.2	0.90V _{IN}	1.2	1.5	Internal	200kHz	2.5mA	25	eTSSOP-16	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	eTSSOP-16	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

† Primary Sort Column

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

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

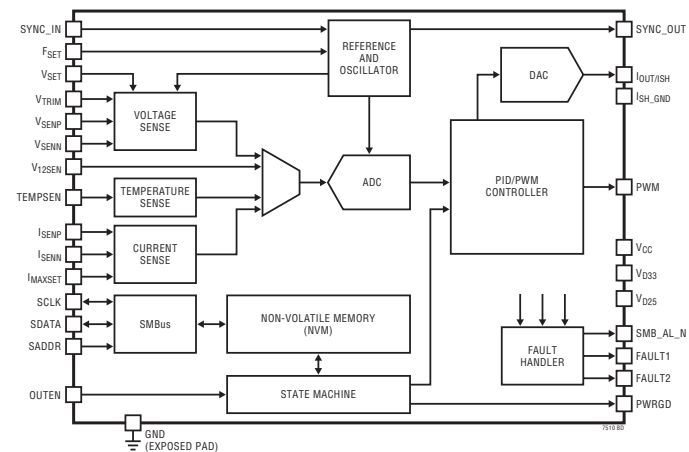
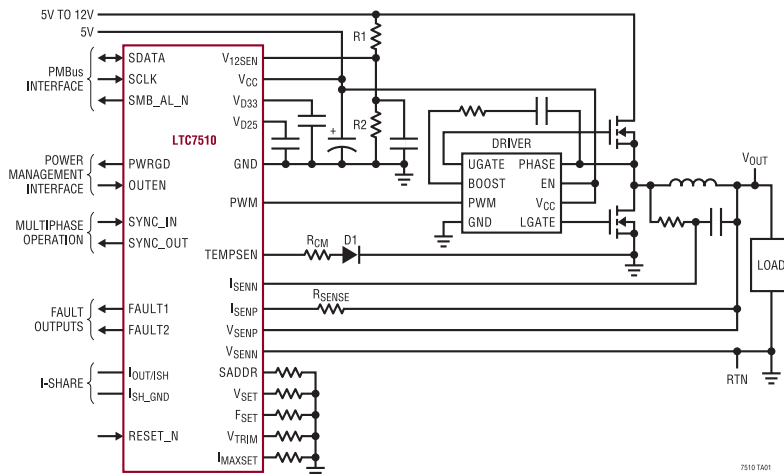
Part Number	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Min (V)	V _{OUT} Max ⁽¹⁾ (V)	† Output Current ⁽²⁾ (A)	Switch Current (A)	Switch Configuration	Switching Frequency	I _o (I _{SUPPLY}) (μA)	I _{SHDN} (μA)	Package	Temp Range	Comments	Price 1K Qty
LT3481H	3.6	34	1.265	20	2.0	3.2	-	300kHz to 2.8MHz	50	<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, eTSSOP-16	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
LT3680	3.6	36	0.79	30	3.5	4.6	Internal	250kHz to 2.4MHz	75	<1	eMSOP-10	I, H	36V Operation and I _o =75μA	\$4.15
LT3972	3.6	33	0.79	30	3.5	4.6	Internal	200kHz to 2.4MHz	75	<1	eMSOP-10	E, I, H	Transient Protection to 62V, Micropower, Low Ripple Burst Mode Operation	\$4.25
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, eMSOP-16	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, eMSOP-16	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

DIGITAL POWER DC/DC CONTROLLER

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

PIEZO DRIVERS

Part Number	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Min (V)	V _{OUT} Max (V)	Peak Switch Current (mA)	Switching Frequency	Supply Current (mA)	Shutdown Current (µA)	Package	Extended Temp Range	Comments	Price 1K Qty
Internal Switch												
LT3469	2.5	16	1	35	165	1.3MHz	1.9	–	TSOT-23-8	E	Piezo Driver, Onboard Schottky Diode	\$1.65
LT3572	2.7	10	–	40	900	500kHz to 2.25MHz	3.4	<1	4×4 QFN-20	E	Dual, Full-Bridge Piezo Driver, Separate Enable Pins for Each Driver, Synchronizable, Soft-Start, PG00D Pin	\$2.75

POWER MANAGEMENT ICS (PMICS)

Part Number	† Number of Regulators	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	–	Uncommitted Op Amp for LDO	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	–	50mA × 2	2.5 to 5.5	I ² C	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	4	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

Part Number	† Number of Regulators ⁽¹⁾	Buck(s)	Buck-Boost (BB)/ Boost	LDO(s)	Li-Ion/Polymer Charger	Max Charge Current (A)	PowerPath Topology ⁽²⁾	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
LTC4160	1	1.2A	0.5A Output Boost for USB OTG	–	linear	1.2⁽³⁾	switching	int + ext (opt.)	4.35 to 5.5	–	3×4 UTQFN-20	Bidirectional Switcher Generates 5V@0.5A for USB On-The-Go Applications, 6.1V OV Protection, Bat-Track, Instant-On Operation, "Plain" Version Has 4.2V V_{FLOAT}, "-1" Has 4.2V V_{FLOAT}	\$2.85
LTC4089-5	1	1.2A	–	–	HV buck + linear	1.2 ⁽³⁾	linear	int + ext (opt.)	6 to 36 (40V max), USB	–	3×6 DFN-22	DC/DC Provides Fixed 5V Output	\$2.95
LTC4090-5	1	2A	–	–	HV buck + linear	1.5 ⁽³⁾	linear	int + ext (opt.)	6 to 36 (60V max), USB	–	3×6 DFN-22	DC/DC Provides Fixed 5V Output	\$3.25
LTC3553	2	200mA	–	150mA	–	–	–	–	4.35 to 5.5	–	3×3 UTQFN-20	12µA I_q, Sync Buck Plus LDO	\$2.25
LTC3554	2	200mA×2	–	–	–	–	–	–	4.35 to 5.5	–	3×3 UTQFN-20	10µA I_q, Dual Sync Buck	\$2.35
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

† Primary Sort Column

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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

Part Number	† Number of Regulators ⁽¹⁾	Buck(s)	Buck-Boost (BB)/ Boost	LDO(s)	Li-Ion/Polymer Charger	Max Charge Current (A)	PowerPath Topology ⁽²⁾	Ideal Diode	Input Voltage (V)	Interface	Package (mm ²)	Notes	Price 1K Qty
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 ⁽³⁾	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 ⁽³⁾	switching	int + ext (opt.)	4.25 to 5.5	I ² C	4×4 QFN-24	Bat-Track	\$3.85
LTC3455	3	600mA ⁽⁴⁾ /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 ⁽³⁾	switching	int + ext (opt.)	5, USB, Li-Ion	I ² C	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 ⁽³⁾	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 ⁽³⁾	switching	int + ext (opt.)	5, USB, Li-Ion	I ² C	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 ⁽³⁾	switching	int + ext (opt.)	5, USB, Li-Ion, Hi-V 38V with 60V transients; OVP: 68V	I ² C	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 ⁽³⁾	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 ⁽³⁾	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	\$4.95

† Primary Sort Column

Notes:

1. Excludes the linear regulator of the battery charger
2. Switching PowerPath means a switcher is on the USB input allowing efficient charging and more than 500mA charge current from USB
3. The DC-DC converter provides charge current and system load current
4. May be increased to 1A with additional components

µModule[®] DC/DC COMPLETE POWER SUPPLIES

Part Number	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Min (V)	V _{OUT} Max (V)	† Output Current (A)	PLL	Tracking, Margining	Remote Sense	Paralleled ICs for Current Share	LGA Package Dimensions (mm)	Comments	Price 1K Qty
Buck (Step-Down)												
LTM8020	4	36	1.25	5	0.2				–	6.25×6.25×2.3	Tiny 6.25mm×6.25mm Package	\$4.95
LTM8021	3.6	36	0.8	5	0.5				–	6.25×11.25×2.8	Cooler Temperature than an LDO, Smaller than an LDO Plus Heat Sink	\$5.85
LTM8022	3.6	36	0.8	10	1				–	9×11.25×2.8	Pin-Compatible with LTM8023	\$6.95
LTM8023	3.6	36	0.8	10	2				Up to 2	9×11.25×2.8	Pin-Compatible with LTM8022	\$7.95
LTM8025	3.6	36	0.8	24	3				Up to 2	9×15×4.32	Selectable Switching Frequency: 200kHz to 2.4MHz	\$8.95
LTM4604A	2.375	5.5	0.8	5	4		•		Up to 2	9×15×2.3	Only 2.3mm Height	\$8.50
LTM4602	4.5	20	0.6	5	6				Up to 2	15×15×2.8	Pin-Compatible with LTM4600	\$11.95
LTM4602HV	4.5	28	0.6	5	6				Up to 2	15×15×2.8	Pin-Compatible with LTM4600	\$14.58
LTM4603	4.5	20	0.6	5	6	•	•	•	Up to 4	15×15×2.8	Pin-Compatible with LTM4601	\$13.50
LTM4603HV	4.5	28	0.6	5	6	•	•	•	Up to 4	15×15×2.8	Pin-Compatible with LTM4601	\$16.47
LTM4608A	2.7	5.5	0.6	5	8	•	•		Up to 3	9×15×2.8	8A in 9mm×15mm LGA	\$11.30
LTM4600	4.5	20	0.6	5	10				Up to 2	15×15×2.8	Pin-Compatible with LTM4602	\$14.70
LTM4600HV	4.5	28	0.6	5	10				Up to 2	15×15×2.8	Pin-Compatible with LTM4602	\$18.00
LTM4601	4.5	20	0.6	5	12	•	•	•	Up to 4	15×15×2.8	Pin-Compatible with LTM4603	\$16.50
LTM4601HV	4.5	28	0.6	5	12	•	•	•	Up to 4	15×15×2.8	Pin-Compatible with LTM4603	\$20.15
LTM4601A	4.5	20	0.6	5	12	•	•	•	Up to 4	15×15×2.8	LTM4601 with Extra LGA Pads	\$16.85
LTM4601AHV	4.5	28	0.6	5	12	•	•	•	Up to 4	15×15×2.8	LTM4601 with Extra LGA Pads	\$20.40

† Primary Sort Column



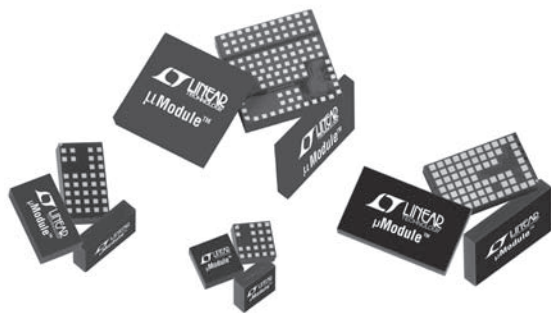
Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

μModule® DC/DC COMPLETE POWER SUPPLIES

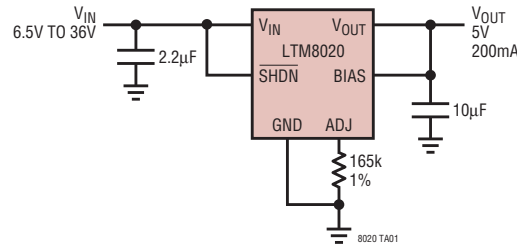
Part Number	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Min (V)	V _{OUT} Max (V)	Output Current (A)	PLL	Tracking, Margining	Remote Sense	Paralleled ICs for Current Share	LGA Package Dimensions (mm)	Comments	Price 1K Qty
Ultralow Noise Buck												
LTM8031	3.6	36	0.8	10	1				–	9×15×2.8	EN55022 Class B Compliant	C.F.
LTM8032	3.6	36	0.8	10	2				–	9×15×2.8	EN55022 Class B Compliant; Pin-Compatible with LTM8032	\$10.95
LTM4606	4.5	28	0.6	5	6	•	•		–	15×15×2.8	For High Speed I/O; Meets CISPR 22 Class B	\$16.50
LTM4612	4.5	36	3.3	15	6	•	•		–	15×15×2.8	For High V _{OUT} and Low Noise, Pin-Compatible with LTM4606	\$19.89
–55°C to 125°C Aerospace & Military												
LTM8020MPV	4	36	1.25	5	0.2				–	6.25×6.25×2.3	Only 2.3mm Height	\$10.14
LTM8022MPV	3.6	36	0.8	10	1				–	9×11.25×2.8	–55°C to 125°C Fully Tested	\$14.23
LTM8032MPV	3.6	36	0.8	10	1				–	9×15×2.8	EN55022 Class B Compliant	\$23.40
LTM8023MPV	3.6	36	0.8	10	2				Up to 2	9×11.25×2.8	–55°C to 125°C Fully Tested	\$16.28
LTM8025MPV	3.6	36	0.8	24	3				Up to 3	9×15×4.32	–55°C to 125°C Fully Tested	\$16.61
LTM4606MPV	4.5	28	0.6	5	6	•	•		–	15×15×2.8	–55°C to 125°C Fully Tested	\$37.10
LTM4612MPV	4.5	36	3.3	15	6	•	•		–	15×15×2.8	–55°C to 125°C Fully Tested	\$40.45
LTM4608AMPV	2.375	5.5	0.6	5	8	•	•		Up to 3	9×15×2.8	–55°C to 125°C Fully Tested	\$22.25
LTM4600HVMPV	4.5	28	0.6	5	10				Up to 2	15×15×2.8	–55°C to 125°C Fully Tested	\$36.95
LTM4601AHVMPV	4.5	28	0.6	5	12	•	•	•	Up to 4	15×15×2.8	–55°C to 125°C Fully Tested	\$39.95
Multiple Output												
LTM4614 (dual)	2.375	5.5	0.8	5	4, 4		•		Up to 2	15×15×2.8	Dual 4A (for single 8A see LTM4608A)	\$15.50
LTM4615 (triple)	2.375	5.5	0.8	5	4, 4, 1.5		•		Up to 2	15×15×2.8	Triple: Two 4A switchers and a 1.5A Linear Regulator	\$17.20
LTM4619 (dual)	4.5	26.5	0.8	5	4, 4	•	•		–	15×15×2.8	2-Phase Operation for Minimum Input Capacitance	\$16.75
LTM4616 (dual)	2.7	5.5	0.6	5	8, 8	•	•		Up to 2	15×15×2.8	2-Phase Operation, Dual 8A or Single 16A	\$19.45
Buck-Boost												
LTM4605	4.5	20	0.8	16	5 to 12	•			Up to 2	15×15×2.8	94% to 98% Efficiency, External Inductor, All are Pin-Compatible	\$18.80
LTM4607	4.5	36	0.8	24	5 to 12	•			Up to 2	15×15×2.8	94% to 98% Efficiency, External Inductor, All are Pin-Compatible	\$21.55
LTM4609	4.5	36	0.8	34	5 to 12	•			Up to 2	15×15×2.8	94% to 98% Efficiency, External Inductor, All are Pin-Compatible	\$22.55
LED Driver & Current Source												
LTM8040	4	36	2.5	13	1				–	9×15×4.32	With True Color PWM and Analog Dimming	\$7.45

† Primary Sort Column

LGA (Land Grid Array) Package



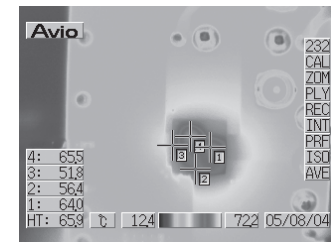
Simple DC/DC μModule Circuit



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

Thermal Performance Analysis



CONDITIONS: 25°C, NO AIR FLOW, NO HEATSINK, NO EXT_{VCC}

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

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

Amps, Refs, Filters, Comps
Power Management
Data Conversion
Interface
RF/Wireless
Space, Military, Harsh Envir.
Reference Material

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
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	I	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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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

Part Number	V _{IN} Min (V)	V _{IN} Max (V)	Max LED Forward Voltage (V)	† Switch Current (A)	Dimming Control ⁽¹⁾	Switching Frequency	I _O (I _{SUPPLY}) (mA)	I _{SHDN} (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3491	2.5	12	26	0.26	TC PWM & Analog	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	PWM	PFM	20μA	<1	ThinSOT	E	Constant-Current, Constant Off Time	\$1.65
LT3497	2.5	10	30	0.3×2	TC PWM & Analog	2.3MHz	6	<1	3×2 DFN-10	E	Dual Output, Integrated Schottkys, Soft-Start	\$1.70
LT1937	2.5	10	34	0.32	PWM	1.2MHz	1.9	<1	ThinSOT, SC70	E	Low Noise, 84% Efficiency, Ideal for 2-4 LEDs	\$1.30
LT3466	2.7	24	39	0.32×2	PWM	1.0MHz	5	<16	3×3 DFN-10, eTSSOP-16	E	Dual Outputs/Integrated Schottkys, Soft-Start	\$2.20
LT3466-1	2.7	24	39	0.32×2	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	32?	0.4	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	PWM	1.2/2.7MHz	2	<1	ThinSOT	E	Integrated Schottky, Soft-Start	\$1.35
LT3498	2.5	12	26	0.4/0.25	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	TC PWM & Analog	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	36	0.55	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
LT3519	3.0	30/40	38	0.75	TC PWM & Analog	400kHz	2	<1	MSOP-16	E, I	Multi-Topology LED Driver with Integrated Schottky Diode, 3000:1 PWM Dimming, Optional Analog Control	\$2.50
LT3496	3.0	30	40	0.75×3	TC PWM & Analog	330kHz to 2.1MHz	6	<1	4×5 QFN-28	I	Triple Output, Can be Used in Boost, Buck Mode or Buck-Boost Mode, 3000:1 True Color PWM™ Dimming	\$3.50
LT1942	2.6	16	37.5	1	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	4.6	1.15	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	35.5	1.3×2	TC PWM & Analog	200kHz to 2MHz	9	<1	5×3 DFN-16, eTSSOP-16	E	Dual 1.3A LED Driver with 1000:1 Dimming	\$2.50
LT3598	3.1	30	44	1.5	TC PWM & Analog	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	30/40	40	1.5	TC PWM & Analog	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16	I	Boost, Buck Mode or Buck-Boost Mode, 5000:1 PWM Dimming	\$2.70
LT1618	1.6	18	35	1.5	PWM	1.4MHz	1.8	<1	MSOP-10	E	Constant Current/Voltage, Ideal for 8+ LEDs	\$1.75
LT3476	2.8	16	33	1.5×4	TC PWM & Analog	200kHz to 2MHz	22	<1	5×7 QFN-38	I	Quad Driver, 1000:1 True Color PWM, Boost, Buck Mode or Buck-Boost Mode	\$4.64
LT3599	3.1	30	44	2	TC PWM & Analog	200kHz to 2.1MHz	3.5	<1	5×5 QFN-32, eTSSOP-28	E, I	Up to Four Strings of 10 LEDs in Series, 120mA per LED	\$3.25
LTC3490	1.0	3.2	4.7	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	30/40	42	2.3	TC PWM & Analog	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16	I	Boost, Buck Mode or Buck-Boost Mode, 3000:1 PWM Dimming	\$2.95
LT3454	2.7	5.5	4.9	2.4	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	40	3	PWM	200kHz to 3.5MHz	5	<1	eTSSOP-20, 4×4 QFN-20	E	Boost, Buck, Buck-Boost LED Driver, 3A, 42V Internal Switch	\$3.15
LT3479	2.5	24	40	3	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	38	4.5	TC PWM & Analog	200kHz to 2.25MHz	22	<1	eTSSOP-16	I	Boost, Buck Mode or Buck-Boost Mode, 3000:1 Dimming; "-1" Has Integrated R _{SENSE}	\$3.60
LT3754	6.0	40	45	—⁽³⁾	TC PWM & Analog	100kHz to 1MHz	9.5	10	5×9 QFN-56	E	Single External Switch and R_{SENSE}, 16 Strings, Single Resistor Sets LED Current (10mA to 50mA Per String)	\$4.25
LTC3783	3.0	36	— ⁽²⁾	20 ⁽³⁾	TC 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	— ⁽²⁾	20 ⁽³⁾	TC PWM & Analog	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	— ⁽²⁾	20 ⁽³⁾	TC PWM & Analog	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. TC PWM is True Color PWM™ Dimming
2. Forward voltage depends on choice of external components
3. Switch 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 _O (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
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 ² C	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 ² C	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 ² C	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 ² C	850kHz	500	<3	4×4 QFN-24	E	Drives 13 LEDs: 12 Universal + One 425mA CAM, "-1" Has Different I ² C Address	\$2.55
LTC3208	2.9	4.5	1/1 : 3/2 : 2/1	1,000	17	I ² C	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 ² C	850kHz	500	<1	4×4 UTQFN-28	E, I	Drives 18 Universal LEDs. "-1" Has Different I ² C 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. LED Forward Voltage (V)	Dimming Control ⁽¹⁾	Frequency	I _O (I _{SUPPLY}) (mA)	I _{SHDN} (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3590	4.5	55	0.05	47	Analog	850kHz	0.5	15	SC70, 2×2 DFN-6	E	55V Buck LED Driver, Internal Schottky	\$1.40
LT3595/A	4.5	45	0.05×16	36×16	TC PWM	2MHz	17	18 typ	5×9 QFN-56	E	Buck LED Driver, 16 Channels, Internal Schottkys, 5000:1 Dimming. "A" Version Has Tighter LED Current Accuracy/Matching And Improved Pinout	\$6.95
LT3592	3.0	36	0.5	32	Pin-Select & PWM	400kHz to 2.2MHz	2.0	1	2×3 DFN-10, eMSOP-10	I	36V Buck LED Driver; 10:1 Flash/Torch Pin-Selectable Dimming Control	\$1.65
LT3519	3.0	30/40	0.5	28	TC PWM & Analog	400kHz	2	<1	MSOP-16	E, I	Multi-Topology LED Driver with Integrated Schottky Diode, 3000:1 PWM Dimming, Optional Analog Control	\$2.50
LT3496	3	30/40	0.5×3	28	TC PWM & Analog	330kHz to 2.1MHz	6	<1	4×5 QFN-28, eMSOP-28	I	Triple Output, Buck Mode, Buck-Boost Mode or Boost, 3000:1 Dimming	\$3.50
LT1618	1.6	18	0.7	14	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	21	PWM & Analog	200kHz to 3.5MHz	5	<1	4×4 QFN-20, eTSSOP-20	E, I	42V Internal Switch, Dual Rail-to-Rail Current Sense Amps	\$3.15
LT3474	4	36	1	32	TC PWM & Analog	200kHz to 2MHz	2.6	<1	eTSSOP-16	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	28	TC PWM & Analog	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16, eTSSOP-16	I	Buck Mode, Buck-Boost Mode or Boost, 5000:1 Dimming	\$2.70
LT3518	3	30/40	1.5	28	TC PWM & Analog	250kHz to 2.5MHz	4.5	<1	4×4 QFN-16	I	Buck Mode, Buck-Boost Mode or Boost, 3000:1 Dimming	\$2.95
LT3475/-1	4	36	1.5×2	14/24	TC PWM & Analog	200kHz to 2MHz	5	<1	eTSSOP-20	I	Dual Buck LED Driver, 3000:1 Dimming, "Plain" for Up to 14V LED Strings, "-1" for Up to 24V LED Strings	\$3.50
LT3476	2.8	16	1.5×4	32×4	TC PWM & Analog	200kHz to 2MHz	22	<1	5×7 QFN-38	I	Quad Driver, 1000:1 Dimming, Buck Mode, Buck-Boost Mode or Boost	\$4.64
LT3478	2.8	36	4.5	32	TC PWM & Analog	200kHz to 2.25MHz	22	<1	eTSSOP-16	I	3000:1 Dimming, for Buck Mode, Buck-Boost Mode or Boost, "-1" Has Integrated I _{SENSE} Resistor	\$3.60
LT3755	4.5	40	20 ⁽²⁾	— ⁽²⁾	TC PWM & Analog	100kHz to 1MHz	1.1	<1	3×3 QFN-16, eMSOP-16	I	40V Max V _{IN} ; Boost, Buck Mode, Buck-Boost Mode or SEPIC; 3000:1 Dimming, "-1" Has SYNC Pin	\$2.75
LT3756	6.0	100	20 ⁽²⁾	— ⁽²⁾	TC PWM & Analog	100kHz to 1MHz	1.1	<1	3×3 QFN-16, eMSOP-16	I	100V Max V _{IN} ; Boost, Buck Mode, Buck-Boost Mode or SEPIC; 3000:1 Dimming, "-1" Has SYNC Pin	\$2.90

† Primary Sort Column

Notes:

1. TC PWM is True Color PWM™ Dimming
2. Controller - Output voltage and current depend on the choice of external components

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

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
LTC3453	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
LTC3519	Inductor	3	30/40	0.5	80 to 92	2mA	<1	MSOP-16	√	E, I	Multi-Topology (Buck, Boost, Buck-Boost, SEPIC) LED Driver with Integrated Schottky Diode, 3000:1 PWM Dimming, Optional Analog Control	\$2.50
LT3486	Inductor, Dual	24	35.5	0.8	90	9mA	<1	5×5 DFN-16, eTSSOP-16	√	E	Dual 1.3A LED Boost Driver with 1000:1 Dimming	\$2.50
LTC3454	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	eTSSOP-16, 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

LED BALLASTER

Part Number	Continuous LED Current (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Current Matching (%)	True Color PWM Dimming (%)	I _{SUPPLY} (mA)	I _{SHDN} (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
LT3003	350	3	40	3	3000:1	10.5	<10	eMSOP-10	E	Three-Channel LED Ballaster, Operates in Buck, Boost and Buck-Boost Modes, Two Overtemperature Monitor Outputs	\$2.10

SUPERCAPACITOR CHARGER

Part Number	Architecture	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Max (V)	Peak Charge Current (mA)	Switching Frequency	Supply Current (μA)	Shutdown Current (μA)	Package	Extended Temp Range	Comments	Price 1K Qty
LTC3225	Switched Cap	2.9	5.5	5.4	150 (switched)	0.9MHz	20	<1	2×3 DFN-10	E	Charges Two Series Supercaps; Auto Cell Balancing	\$2.00
LTC3125	Inductor	1.8	5.5	5.25	1.2A	1.6MHz	15	<1	2×3 DFN-8	E	Prog. Avg Input Current Limit, Synchronous, Soft-Start, Burst Mode Operation, Output Disconnect	\$2.25
LTC4425	LDO	2.7	5.5	5.5	2A	n/a	10	<1	3×3 DFN-12, MSOP-12	E	Linear Charger, Current Limited Ideal Diode and V/I Monitor	C.F.

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

CURRENT SOURCES

Part Number	Output Current Range (mA)	Initial Accuracy (%)	Min Input Voltage (V)	Max Input Voltage (V)	Current Regulation (ppm/V)	Quiescent Current (μA)	Reverse Voltage Protection	Reverse Current Protection	Current Limiting	Thermal Protection	Temp Range	Package	Comments	Price 1K Qty
LM334	1μA to 10mA	3	0.8	30	200	280	no	yes	no	no	C	T092, SO-8	Three terminal device, requires external components for low tempco current source	\$1.45
LT3092	0.5 to 200	1	1.2	40	<10	300	yes	yes	yes	yes	E, I, MP	SOT-23-8, SOT-223-3, 3×3 DFN-8	Programmable Two Terminal Current Source (2 Ext Resistors), Stable Without Input/Output Capacitors	\$1.65
LT3085	0 to 500	1	1.2	36	–	3mA	no	no	yes	yes	E, I, MP	2×3 DFN-6, MSOP-8	Current Source LDO Regulator That Can Be Used as a Current Source	\$1.73
LT3080	0 to 1000	1	1.2	36	–	4mA	no	no	yes	yes	E	T0-220, SOT-223-3, 3×3 DFN-8, eMSOP-8	Current Source LDO Regulator That Can Be Used as a Current Source	\$1.81
LTM8040	35 to 1000	–	4	36	–	2.6mA	no	no	Programmable	yes	E, I	15×9 LGA	Fixed Frequency DC/DC μModule Converter, Functions as LED Driver or Current Source	\$7.45

Notes:

1. Current sources can also be designed with amplifiers such as the LTC2053, LT1990, LT1995, LT1637 and LT1466. See Application Note 105 for op amp current source circuits

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	E	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	–	T0-220, 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	–	T0-220, 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	–	T0-220, 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, T0-220	E	Adj, 1.8V, 2.5V, 3.3V Output	\$3.30
LT3070	Low Drop Out Reg	Step-Down	25	0.95	3	0.8	1.8	5	Internal	–	4×5 QFN-28	E, I, MP	Fast Transient Response, Low 25μV _{RMS} Noise, Digitally Programmed V _{OUT} , Digital Margining, Can Parallel For Higher I _{OUT}	\$4.20
LT3071	Low Drop Out Reg	Step-Down	25	0.95	3	0.8	1.8	5	Internal	–	4×5 QFN-28	E, I, MP	Fast Transient Response, 25μV _{RMS} Noise, Digitally Programmed V _{OUT} , Analog Margining to ±10%, I _{OUT} Current Monitor, Can Parallel ICs	\$4.20

† 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
LT1964	Negative Low Drop Out Reg	Step-Down	<30	-1.9	-2.0	-1.2	-2.0	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
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	eTSSOP-16	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 DC/DC µModule Regulator, 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	Push-Pull	<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	-	eMSOP-10, 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	-	eMSOP-10, 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	-	eTSSOP-16, 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	-	eTSSOP-16, 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	-	eMSOP-16, 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	eTSSOP-16	-dV, dT/dt, t, T	High Efficiency, Fast Charging	\$4.45
LTC4011	4	4.5 to 34	-	1 to 16	switching	External, Synchronous	eTSSOP-20	-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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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, Hpw 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, Hpw 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	200kHz Integrated Switching Frequency for Small Solution. “-5” Has 500kHz Switching Frequency	\$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
LTC4160	1.2	4.35 to 5.5	yes	1	linear	Internal	3×4 UTQFN-20	Onboard Timer	Bidirectional Switcher Generates 5V@0.5A for USB On-The-Go Applications, 6.1V 0V Protection, Bat-Track, Instant-On Operation, “Plain” Version Has 4.2V V_{FLOAT}, “-1” Has 4.1V V_{FLOAT}	\$2.85
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

† Primary Sort Column

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
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
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 ² C 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	eMSOP-10	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
LT3652	2	4.95 to 32 (40 Max)	-	1 to 3 Li	switching	Internal	3×3 DFN-12	C/10 or timer	Multi-Chemistry 2A Charger, Peak Power Tracking for Solar Applications, Resistor Prog. V_{FLOAT} up to 14.4V	\$3.05
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, "-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	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

Amps, Refs, Filters, Comps

Power Management

Data Conversion

Interface

RF/Wireless

Space, Military, Harsh Envir.

Reference Material



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	5x7 QFN-38	C/10, Timer, Microcontroller	Backup Smart/Standard Battery System Manager, Battery Charger and Calibrator, I ² C/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, 5x7 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
LTC3553	2	200mA	-	150mA	linear	0.5 ⁽²⁾	linear	internal	4.35 to 5.5	-	3x3 UTQFN-20	12μA Standby Mode I ₀ , Pushbutton ON/OFF Control, RESET Function, Sync. Buck Plus LDO	\$2.25
LTC3554	2	200mAx2	-	-	linear	0.5 ⁽²⁾	linear	internal	4.35 to 5.5	-	3x3 UTQFN-20	10μA Standby Mode I ₀ , Pushbutton ON/OFF Control, RESET Function, Dual Sync Buck	\$2.35
LTC3566	2	-	1A BB	3.3V, 25mA always on	sync buck + linear	1.5 ⁽²⁾	switching	int + ext (opt.)	4.25 to 5.5	-	4x4 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 ² C	4x4 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	-	4x4 QFN-24	Dual Synchronous Buck, Hot Swap Output. "-1" Has 4.1V V _{FLOAT}	\$3.95
LTC3101	4	350mAx2	0.8A BB	3.3V, 50mA always on	n/a	-	linear	internal	1.8V to 5.5V, USB	-	4x4 QFN-24	Ideal for 2A/3A Alkaline Cells, 38μA I ₀ , Hot Swap Output, Pushbutton Control, Prog Power-On Sequencing	\$3.95
LTC3555	4	1A, 400mAx2	-	3.3V, 25mA always on	sync buck + linear	1.5 ⁽²⁾	switching	int + ext (opt.)	5, USB, Li-Ion	I ² C	4x5 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, 400mAx2	-	3.3V, 25mA always on	HV buck + linear	1.5 ⁽²⁾	linear	int + ext (opt.)	5, USB, Li-Ion, Hi-V 38V Max	-	4x4 QFN-28	Bat-Track (DC/DC Output = 300mV Above V _{BAT}), 38V Buck Interface; "-1" Has 4.1V V _{FLOAT}	\$3.95
LTC3556	4	400mAx2	1A BB	3.3V, 25mA always on	sync buck + linear	1.5 ⁽²⁾	switching	int + ext (opt.)	5, USB, Li-Ion	I ² C	4x5 QFN-28	Bat-Track	\$4.80
LTC3576	4	400mAx2, 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	I ² C	4x6 QFN-38	Bat-Track; Bidirectional USB On-The-Go (OTG) "-1" Has 4.1V V _{FLOAT}	\$4.80
LTC3586	5	400mAx2	1A BB, 0.8A Boost	3.3V, 25mA always on	sync buck + linear	1.5 ⁽²⁾	switching	int + ext (opt.)	5, USB, Li-Ion	-	4x6 QFN-38	Bat-Track, Integrated Buck-Boost and Boost Regulators	\$5.30
LTC3577	7	600mA, 400mAx2	20mA Boost/LED Drvr	150mAx2, 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	I ² C	4x7 QFN-44	3 Bucks (0.6A, 0.4Ax2), 150mAx2 LDOs, 40V 20mA Buck Drives Up to 10 LEDs, Interfaces to HV Buck, Instant-On Operation, Input Current Limiting, OVP	\$4.95

† 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

Part Number	† Maximum Charge Current ⁽¹⁾ (A)	USB Compatible	Power Manager Topology ⁽²⁾	Input Voltage (V)	Number of Cells (Series)	Charger Topology	Integrated Ideal Diode Resistance	Optional External Ideal Diode Controller	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	200mΩ	no	4×4 QFN-16	Onboard Timer	"-1" Version Has 4.1V V _{FLOAT}	\$2.20
LTC4160	1.2	yes	switching	4.35 to 5.5	1	linear	180mΩ	yes	3×4 UTQFN-20	Onboard Timer	Bidirectional Switcher Generates 5V@0.5A for USB On-The-Go Applications, 6.1V OV Protection, Bat-Track, Instant-On Operation, "Plain" Version Has 4.2V V_{FLOAT}, "-1" Has 4.1V V_{FLOAT}	\$2.85
LTC4089	1.2	yes	linear	4.35 to 5.5 USB, 6-36V wall	1	linear	215mΩ	yes	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	215mΩ	yes	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	200mΩ	yes	3×4 DFN-14	Onboard Timer	13V OV Protection	\$1.70
LTC4088	1.5	yes	switching	4.25 to 5.5	1	linear	180mΩ	yes, 30mΩ	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	180mΩ	yes, 30mΩ	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	180mΩ	yes, 30mΩ	3×4 UTQFN-20	Timer + C/x	I ² C Control, Overtemp Battery Conditioning Circuit; 66V OV Protection, 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	215mΩ	yes	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	50mΩ	no	4×4 UTQFN-24, 4×4 QFN-24	Onboard Timer	"-1" Has 4.1V V _{FLOAT}	\$2.30
LTC4085	1.5	yes	linear	4.35 to 5.5	1	linear	200mΩ	yes, 50mΩ	3×4 DFN-14	Onboard Timer	"-1" Has 4.1V V _{FLOAT}	\$1.65

† Primary Sort Column

Notes:

1. All devices feature a linear battery charger.

2. Switching PowerPath Managers feature a DC/DC Converter on the USB power path to improve charging efficiency. This switcher is followed by the linear battery charger.

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, eMSOP-10	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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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	eMSOP-10	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
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	\$4.95
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 ² C Interface, OVP, Up to 38V Continuous with LTC Hi-V Buck (60V Transient), Bat-Track, Instant-On Operation	\$2.80
LTC4160-1	1	1.2	linear	yes	–	yes	Bidirectional DC/DC, Buck or Boost (USB OTG)	4.35 to 5.5	3×4 UTQFN-20	Bidirectional Switcher Generates 5V@0.5A for USB On-The-Go Applications, 6.1V OV Protection, Bat-Track, Instant-On Operation, 4.1V V_{FLOAT}	\$2.85
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
LT3652	1 to 3	2	switching	–	–	–	–	4.95 to 32	3×3 DFN-12	Multi-Chemistry 2A Charger, Peak Power Tracking for Solar Applications, Resistor Prog. V_{FLOAT} up to 14.4V	\$3.05
LT3650-4.1/-8.2	1, 2	2	switching	–	–	–	–	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	switching	–	–	–	–	4 to 5.5	4×4 QFN-16	Synchronous, Integrated R _{SENSE}	\$2.20
LTC1980	1,2	2	switching	–	–	–	–	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	switching	–	–	–	–	6 to 28	SSOP-24	Synchronous, NTC Thermistor Input, Full-Featured; Set 4.1V Via CHEM Pin	\$3.80
LTC4100	2-6	4	switching	–	–	–	–	6 to 28	SSOP-24	Smart Charger, SMBus v 1.1, Level 2 Charger	\$5.00
LTC4101	1	4	switching	–	–	–	–	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	switching	–	–	–	–	6 to 28	SSOP-20	Multi-Chemistry, Needs μC for Charge Termination	\$3.70
LTC4009-1	1-4	4	switching	–	–	–	–	6 to 28	4×4 QFN-20	Multi-Chemistry, Needs μC for Charge Termination	\$2.95
LTC4012/-1/-3	1-4	4	switching	–	–	–	–	6 to 28	4×4 QFN-20	PowerPath Control; Multi-Chemistry, Needs μC for Charge Termination	\$3.15
LTC1960	1-6	4	switching	–	–	–	–	6 to 28	SSOP-36, 5×7 QFN-38	Dual Smart Battery Selector and Charger; SPI Interface	\$3.70
LTC1760	2-6	4	switching	–	–	–	–	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 except LTC4160

Part Number	Supply Voltage (V)	Max Quiescent Current (µA)	Max Shutdown Current (µA)	Charge Accuracy (%)	Measures Accumulated Charge & Discharge	High Side Sense Voltage Range (mV)	Internal R _{SENSE}	Maximum Measured Current (mA) ⁽¹⁾	Integrated Temperature Sensor	Interface	Package	Comments and Features	Price 1K Qty
LTC4150	2.7 to 8.5	100	1.5	no spec	yes	±50	–	– ⁽¹⁾	–	2 µC I/O Pins	MSOP-10	Coulomb Counter, Targets 1-/2-Cell Li Ion and 3-Cell to 6-Cell Nickel-Based Batteries, V-to-F Converter Gives 32.55Hz/V Charge Count Frequency	\$1.50

Notes:

1. Depends on external components

BATTERY CHARGER SUPPORT FUNCTIONS

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	Battery Monitoring Building Blocks	MSOP-8, SO-8, PDIP-8,	Ultralow Power Comparator with Reference	\$1.45
LTC1540		3×3 DFN-8		
LTC1441	Battery Monitoring Building Blocks	DIP-8, SO-8	Dual Ultralow Power Comparators with Reference	\$1.80
LTC1442				
LTC1842				
LTC1843				
LTC1443	Battery Monitoring Building Blocks	DIP-16, SO-16	Quad Ultralow Power Comparators with Reference	\$2.45
LTC1444				
LTC1445				
LTC1541	Battery Monitoring Building Blocks	MSOP-8, SO-8, 3×3 DFN-8	Combined Amplifier, Comparator and Reference	\$1.50
LTC1542				
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
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

Amps, Refs, Filters, Comps

Power Management

Data Conversion

Interface

RF/Wireless

Space, Military, Harsh Envir.

Reference Material

BATTERY STACK MONITORS

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 $\Delta\Sigma$ ADC	0.25%	2	yes	yes	Serial, Level-Shifted Daisy-Chain	yes	Daisy-Chain 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 $\Delta\Sigma$ 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.

PowerPath™ AND IDEAL DIODE-OR CONTROLLERS

Part Number	Input Supply Range (V)	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

HIGH SIDE SWITCHES AND MOSFET DRIVERS

Part Number	Function	V _{CC} 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	eMSOP-8, 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	eMSOP-8, TSOT	E	4V to 15V MOSFET Gate Drive for 5V Logic Level FETs	\$1.75

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

HIGH SIDE SWITCHES AND MOSFET DRIVERS

Part Number	Function	V _{CC} Range (V)	V _{IN} Max (V)	Packages	Extended Temp Range	Comments	Price 1K Qty
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	eMSOP-8	E, I	Synchronous Step-Down or Step-Up Applications, 2.4A Peak Pull-Up & 5A Peak Pull-Down Currents, -1 Has Higher UVLO	\$1.25
LTC4444	High Voltage N-Channel Synchronous Driver	7.2 to 13.5	100	eMSOP-8	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	eMSOP-8	E, I	Synchronous Step-Down, Step-Up or Buck-Boost Applications, Targets 5V V _{CC}	\$1.69
LTC4446	High Voltage, High Side/Low Side MOSFET Driver	7.2 to 13.5	100	eMSOP-8	E, I	2-Transistor Forward Converter Applications, No Shoot-Thru Protection	\$1.69
LTC4449	High Speed N-Channel Synchronous Driver	4.5 to 6	38	2×3 DFN-8	E, I	3.2A Peak Pull-Up, 4.5A Peak Pull-Down Currents	C.F.

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

24V/48V DC/DC CONTROLLERS

FLYBACK, FORWARD, PUSH-PULL, HALF-/FULL-BRIDGE

Part Number	† Output Power ⁽¹⁾	Input Voltage ⁽¹⁾ (V)	Output Voltage	Operating Frequency	Package	Synchronous	Extended Temp Range	Description	Price 1K Qty
Flyback Monolithics/Controllers									
LT1425	up to 6W	3 to 20	1.23V and higher ⁽¹⁾	285kHz	SO-16	no	C, I	Monolithic No Opto Flyback	\$2.90
LT1424-5/-9	up to 6W	3 to 20	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	3 to 40	1.23V and higher	40kHz to 1MHz	eMSOP-16	no	E, I	Monolithic No Opto and No 3rd Winding Flyback, Integrated 1.25A NPN Power Switch	\$2.76
LTC3803	up to 15W	9.2 to 75	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	9.2 to 75	0.8V and higher ⁽¹⁾	300kHz	TSOP-6	no	E, I	LTC3803 with 300kHz Switching Frequency	\$1.12
LTC3803-5	up to 15W	5.7 to 75	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	4.5 to 20	1.25V and higher ⁽¹⁾	50kHz to 250kHz	SSOP-16, SO-16	no	C, I	Controller Used with or without Optocoupler	\$2.90
LT3757	up to 35W	2.9 to 40	0.8V and higher ⁽¹⁾	100kHz to 1MHz	3×3 DFN-10, MSOP-10	no	E, I	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.06
LT3758	up to 35W	5.5 to 100	0.8V and higher ⁽¹⁾	100kHz to 1MHz	3×3 DFN-10, eMSOP-10	no	E, I	Flyback, Boost, SEPIC and Inverting, Single FB Pin for Positive and Negative Outputs, Adj Frequency, Synchronizable	\$2.35
LTC3873	up to 25W	8.4 to 75	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	4 to 75	1.2V and higher ⁽¹⁾	200kHz	TSOT-8, 3×2 DFN-8	no	E, I	No R _{SENSE} Current Mode, Constant Frequency	\$1.25
LTC1871	10W to 50W	2.5 to 36	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	2.5 to 36	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	6 to 36	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	16 to 75	1.23V and higher ⁽¹⁾	50kHz to 250kHz	SSOP-16, SO-16	no	C, I	Controller Used with or without Optocoupler	\$2.90
LTC3805	5W to 25W	8.8 to 75	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	4.5 to 75	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
LTC3806	5W to 60W	10 to 75	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	3 to 25	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	4.5 to 20	1.23V and higher ⁽¹⁾	50kHz to 250kHz	TSSOP-16	yes	E	Controller Used with or without Optocoupler	\$3.10
LT3825	5W to 80W	16 to 75	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	15.75 to 75	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 75	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	10.7 to 75	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 75	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	3 to 25	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	9 to 75	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	18 to 80	8V to 52V	70kHz to 300kHz	TSSOP-16	yes	E, I	2-Switch Forward with Gate Driver. Works Stand-Alone or with LTC3706/LTC3726	\$2.63
LT3781	40W to 300W	16 to 75	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	10.7 to 75	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	9 to 75	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	9 to 75	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	2.8 to 20	1.2V to 52V	20kHz to 250kHz	TSSOP-16	no	E	Monolithic Low Noise, Low Power Push-Pull	\$3.50
LTC3721-1	100W to 750W	10.7 to 75	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	10.7 to 75	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	10.7 to 75	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	10.5 to 75	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	10.5 to 75	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:

- In some cases V_{IN} is dependent on external components
- MOSFET drive current

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

24V/48V DC/DC CONTROLLERS

FLYBACK, FORWARD, PUSH-PULL, HALF-/FULL-BRIDGE

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	eMSOP-8, TSOT	E	High-Side Driver for Isolated Power Supplies	\$1.75
LTC4440-5	1.1A Pull-Up	Up to 500kHz	eMSOP-8, 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	9.2 to 75	Flyback, Boost, SEPIC	TSOT-6	E, I, H	0.8V and Higher ⁽¹⁾	\$1.12
LTC3803-3	Up to 25W	9.2 to 75	Flyback, Boost, SEPIC	TSOT-6	E, I	0.8V and Higher ⁽¹⁾	\$1.12
LTC3803-5	Up to 25W	5.7 to 75	Flyback, Boost, SEPIC	TSOT-6	E, I, H	0.8V and Higher ⁽¹⁾	\$1.12
LTC3873	Up to 35W	8.4 to 75	Flyback, Boost, SEPIC	TSOT-8, 3x2 DFN-8	E	1.2V and Higher ⁽¹⁾	\$1.25
LTC3873-5	Up to 35W	4 to 75	Flyback, Boost, SEPIC	TSOT-8, 3x2 DFN-8	E, I	1.2V and Higher ⁽¹⁾	\$1.25
LTC3805	Up to 60W	8.8 to 75	Flyback, Boost, SEPIC	MSOP-10, 3x3 DFN-10	E, H	0.8V and Higher ⁽¹⁾	\$1.45
LTC3805-5	Up to 60W	4.5 to 75	Flyback, Boost, SEPIC	MSOP-10, 3x3 DFN-10	E, I, H	0.8V and Higher ⁽¹⁾	\$1.45
LTC1871	Up to 100W	2.5 to 36	Boost, Flyback, SEPIC, Inverter	MSOP-10	E, I, H	1.23V and Higher ⁽¹⁾	\$2.65
LTC1871-7	Up to 100W	6 to 36	Boost, Flyback, SEPIC, Inverter	MSOP-10	E, I	1.23V and Higher ⁽¹⁾	\$2.65
LT1950	25W to 500W	3 to 25	Forward, Flyback, Boost, SEPIC	SSOP-16	E, I	1.23V to 0.9V _{IN}	\$2.90
LT1952/-1	25W to 500W	8 to 75	Forward, Boost, SEPIC, Inverter	SSOP-16	E, I	1.23V to 0.9V _{IN}	\$3.30
LT1619	Up to 100W	1.9 to 18	Flyback, Boost, SEPIC, Inverter	MSOP-8, SO-8	E	1.24V and Higher ⁽¹⁾	\$1.99
LT3710	— ⁽¹⁾	8 to 54	Secondary Side Synchronous Post Regulator	TSSOP-16	E	0.8V to 0.85V _{IN}	\$3.95
LT3804	— ⁽¹⁾	8 to 54	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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

PWM CONTROLLERS

Amps, Refs, Filters, Comps

Power Management

Data Conversion

Interface

RF/Wireless

Space, Military, Harsh Envir.

Reference Material

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

OFFLINE CONTROL/POWER FACTOR CORRECTION

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			Outputs			Ext. Temp.	Package	Comments	Price 1K Qty	
					Active Limiting	Foldback	Fast Comparator	Fault	Reset	PWRGD					
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	Uitalow 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		2.9 to 15	Active/SS		yes		yes	yes			I	SSOP-16, 4×5 QFN-24	I ² C, Internal 8-Bit ADC, di/dt Controlled Soft-Start, "-1" and "-3" Feature 3 GPIO Ports, "-2" and "-3" Feature 420µs Circuit Breaker Filter	\$3.75
LTC1642A	1		2.97 to 16.5	Active	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	Active	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				I	DIP-8, SO-8	Prog Trip Current to 20A, Prog Delay, Auto-Retry on Fault	\$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, MP	I	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.	\$1.75
LT4256-3	1		10.8 to 80	Active	yes	yes			yes			I	SSOP-16	Latch-Off (LT4256-1) or Auto-Retry (LT4256-2) Operation	\$2.05
LTC4260	1		8.5 to 80	Active	yes	yes		yes				I	SO-24, SSOP-24, 5×5 QFN-32	Positive High Voltage Hot Swap Controller with Open Circuit Detect Output. Higher Voltage Version of LT4254	\$5.50

† Primary Sort Column
 †† Secondary Sort Column

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

Part Number	† Circuit Breakers	‡‡ Input Voltage Range (V)	Start-Up In-Rush ⁽¹⁾ Current	Current Limit Methods			Outputs			Ext. Temp.	Package	Comments	Price 1K Qty
				Active Limiting	Foldback	Fast Comparator	Fault	Reset	PWRGD				
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	yes	I	SSOP-28, 4×5 QFN-24	Onboard 10-Bit ADC for Card Voltage and Current Monitoring. I ² C 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
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	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	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	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	yes	I	SSOP-36, 5×5 QFN-32	Dual Hot Swap Controller with I ² C, 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	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	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	yes	I	SSOP-28	Controls 3.3V and 5V with N-Channel Fets, ±12V Supplies Controlled with Internal Switches. I ² C 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	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	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	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	yes	I	SSOP-36, 5×7 QFN-38	I ² C, 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	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:

- Active = Active current 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
- 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				Outputs				Ext. Temp.	Package	Comments	Price 1K Qty
			Active Limiting	Fast Comparator	UV	OV	Fault	Reset	PWRGD					
Negative Input														
LTC4261/-2	-12 to -100	Active	yes	yes	yes	yes	yes	yes	yes	I	SSOP-28, 4x5 QFN-24	Onboard 10-Bit ADC for Card Voltage and Current Monitoring, I ² C Interface. Default Latch-Off (LTC4261) or Auto-Retry (LTC4261-2)	\$5.95	
LT1640A	-10 to -80	Miller Cap			yes	yes	yes	yes		I	SO-8	Improved Drain Pin Ruggedness	\$1.90	
LT1640	-10 to -80	Miller Cap			yes	yes	yes	yes		I	SO-8	PWRGD# (L) or PWRGD (H) Output	\$1.90	
LT4250	-18 to -80	Miller Cap	yes		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	yes		I	MSOP-8, MSOP-10	Soft-Start (SS) Ramps Inrush Current During Start-Up, Drain Accelerated Response, Latch-Off Operation, ±1% UV/OV Threshold Accuracy (LTC4252A-1) for Advanced TCA Applications	\$2.00	
LTC4252-2/ LTC4252A-2	-15 to -80 (floating)	Active/SS	yes	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% UV/OV Threshold Accuracy (LTC4252A-2) for Advanced TCA Applications	\$2.00	
LTC4253/ LTC4253A	-15 to -80 (floating)	Active/SS	yes		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	yes	I	SSOP-20, 4x4 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	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	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	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	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	yes		I	SO-24, SSOP-24, 5x5 QFN-32	Onboard 8-bit ADC for Card Voltage and Current Monitoring, I ² C Compatible Interface. Optional Latch-Off or Auto-Retry	\$5.95	
LT4356	4 to 80	Active	yes				yes	yes	H, MP		SO-16, MSOP-10, 4x3 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			Outputs			Supply Sequencing	Ext. Temp.	Package	Comments	Price 1K Qty
				Active Limiting	Foldback	Fast Comparator	Fault	Reset	PWRGD					
LTC4213	1	0 to 6				yes					I	3x2 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, 4x3 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, 4x5 QFN-24	I ² C, Internal 8-Bit ADC, di/dt Controlled Soft-Start, "-1" Features 3GPIO Ports	\$3.75
LTC1642A	1	2.97 to 16.5	Active	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

† Primary Sort Column

Part Number	† Circuit Breakers	Input Voltage Range (V)	Start-Up In-Rush Current	Current Limit Methods			Outputs			Supply Sequencing	Ext. Temp.	Package	Comments	Price 1K Qty
				Active Limiting	Foldback	Fast Comparator	Fault	Reset	PWRGD					
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	Active	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
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 I ² C, 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. I ² C 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	I ² C, 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

Amps, Refs, Filters, Comps
Power Management
Data Conversion
Interface
RF/Wireless
Space, Military, Harsh Envir.
Reference Material



PCI HOT SWAP

Part Number	PCI / cPCI Supplies				Internal Switch		Outputs					Package	Comments	Price 1K Qty
	3.3V	5V	12V	-12V	Current Limit @ 12V (mA)	Current Limit @ -12V (mA)	PWRGD	Local PCI Reset	Fault	Precharge	Ext. Temp.			
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. I ² C 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	I ² C, Internal 8-Bit ADC, dl/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

POWER OVER ETHERNET CONTROLLERS

Part Number	PSE/PD	Channels	Description	IEEE-Compliant Detection	IEEE-Compliant Classification	IEEE-Compliant Disconnection	Ext. Temp	Package	Comments	Price 1K Qty
LTC4278	PD	1	IEEE 802.3at PoE+ PD Interface Controller with Integrated Flyback Controller	yes⁽¹⁾	yes (Programmable)	n/a	I	7×4 DFN-32	Up to 50W, Onboard Switching Reg., Dual Current Limit for Legacy Applications, 10V to 57V Aux. Power Input, 100V Internal FET, Adj. 50kHz-250kHz Sync. Flyback Converter	\$2.60
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 50W, Onboard Switching Reg., Dual Current Limit for Legacy Applications, 15V to 57V Aux. Power Input, 100V Internal FET, "-1" Has Adj. 50kHz-250kHz Sync. Flyback Converter; "-2" Has Adj. 100kHz-500kHz Forward Converter	\$2.40
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 50W) Applications, Onboard 100V/100mA Power MOSFET	\$1.80
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
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
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
LTC4274	PSE	1	Single IEEE 802.3at PSE PoE+ Controller	yes	yes (2-Event)	yes (DC- or AC-current)	I	5×7 QFN-38	Up to 50W, Supports 2-Pair and 4-Pair Output Power, Software-Compatible with LTC4259A and LTC4266	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)	I	SSOP-36	Same as LTC4259 but with DC Disconnect Only	\$6.30
LTC4266	PSE	4	Quad IEEE 802.3at PoE+ Controller	yes	yes (2-Event)	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	\$6.95
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

Note:

1. Internal 25kΩ resistor

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

SYSTEM MONITORING AND CONTROL SUPERVISORY CIRCUITS

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
LTC2939	6	5 to 1.2	up to 4	0.5		yes	5%	0.5	Adj	80	Adj		16 Selectable Thresholds, Adj. Reset and Watchdog Timers, Fixed Voltage Range Includes 1.2V	I, H	MSOP-16	\$2.70
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
LTC2938	4	5 to 1.2	up to 2	0.5		yes	5%	0.5	Adj	80	Adj		16 Selectable Thresholds, Adj. Reset and Watchdog Timers, Fixed Voltage Range Includes 1.2V	I, H	MSOP-16	\$2.15
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
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

† Primary Sort Column



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

Amps, Refs, Filters, Comps

Power Management

Data Conversion

Interface

RF/Wireless

Space, Military, Harsh Envir.

Reference Material

SYSTEM MONITORING AND CONTROL SUPERVISORY CIRCUITS

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
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
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	I	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		UL Recognized and Conditional Battery Backup. Ram Protect	I	DIP-8, SO-8	\$2.45

† Primary Sort Column

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, Output Supervisor and Interrupt Logic	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 Methods										Ext. Temp.	Comments	Package	Price 1K Qty	
				Tracking ⁽¹⁾	Sequencing	Series FETs	DC/DC Feedback	Circuit Up/Down	Breakers	Input Monitors	DC/DC Enable	Margining	PWRGD					
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 or 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	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- and Overvoltage and Current 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	3.3 to 12		8		yes	8	Both			9 (15-bit ADC)		yes (10-bit DAC)	yes	I	Octal Digital Power Monitor and Margining Controller, Configurable EEPROM, ±0.25% Total 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	\$10.95	

† Primary Sort Column

Notes:

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

POWER MONITORS

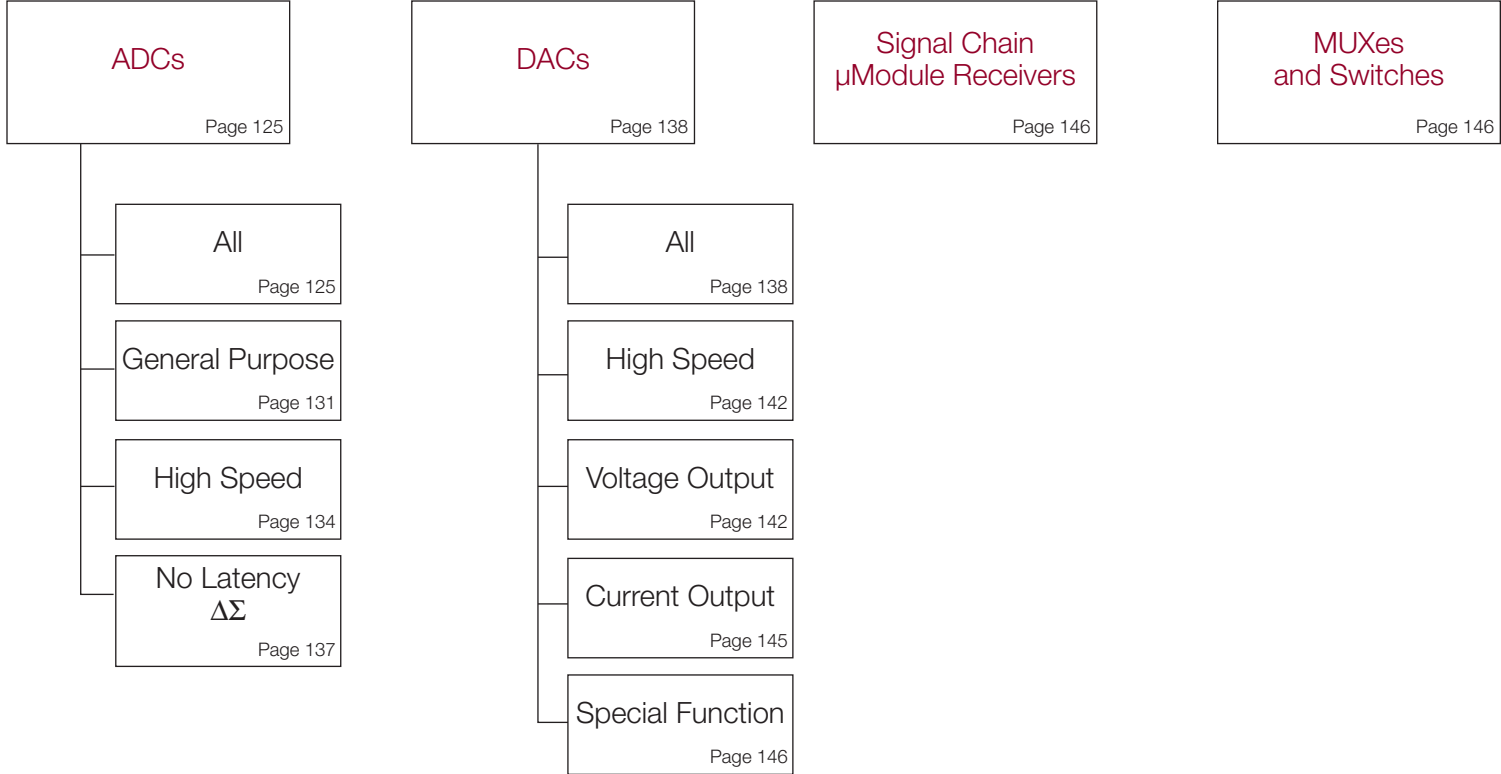
Part Number	Supply Voltage (V)	Current/Voltage Pairs Monitored	Tracking Via DC/DC Feedback	Sequencing	On-Chip ADC	On-Chip Margining	PWRGD	Interface	Ext. Temp	Comments	Package	Price 1K Qty
LTC4151	7 to 80	1	–	–	12-Bit	–	–	I ² C	I	High V _{IN} , Single Voltage/Current Monitor with Auxiliary Input. 12-Bit 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	I ² C	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- and Over- Voltage and Current Measurements	4×5 QFN-24	\$3.99
LTC2978	3.3 to 12	8		yes	15-Bit	yes (10-Bit DACs)	yes	PMBus	I	Octal Digital Power Monitor and Margining Controller, Config. EEPROM, ±0.25% Total Unadjusted Error, 15-Bit ADC, 10-Bit DACs, Internal Temp Sensor, Automatic Servo To Programmed Voltage, Under- and Overvoltage and Current Measurements	9×9 QFN-64	\$10.95

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



Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

Data Conversion



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
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
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
LTC1290	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
LTC1294	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
LTC1296	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
LTC1289	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 ² C	yes	0V to V _{REF} , ±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 ² C	yes	0V to V _{REF} , ±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 ² C	yes	0V to V _{REF} , ±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, ±V _{REF} /2, ±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, ±V _{REF} /2, ±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



Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

No Latency $\Delta\Sigma$ ™ 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	Other ²⁾	Gain	Ext. Temp.	Package-Pins	Price
																					1K Qty
LTC2453	16		60	60	1.4	1	10LSB	0.4mV	0.02%			1.05	2.7 to 5.5	yes	$\pm V_{REF}$	I ² C			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	Int. REF		I	3×3 DFN-12, MSOP-12	\$1.65
LTC2461	16		60	60	2.2	1	10LSB	10LSB	0.25%			4.5	2.7 to 5.5		0V to 1.25V	I ² C	Int. REF		I	3×3 DFN-12, MSOP-12	\$1.65
LTC2462	16		60	60	2.2	1	10LSB	10LSB	0.25%			4.5	2.7 to 5.5	yes	$\pm 1.25V$	SPI	Int. REF		I	3×3 DFN-12, MSOP-12	\$1.65
LTC2463	16		60	60	2.2	1	10LSB	10LSB	0.25%			4.5	2.7 to 5.5	yes	$\pm 1.25V$	I ² C	Int. REF		I	3×3 DFN-12, MSOP-12	\$1.65
LTC2470	16		250	1000	TBD	1	TBD	2mV	0.25%			TBD	2.7 to 5.5		0V to 1.25V	SPI	Int. REF		I	3×3 DFN-12, MSOP-12	C.F.
LTC2472	16		250	1000	TBD	1	TBD	2mV	0.25%			TBD	2.7 to 5.5	yes	$\pm 1.25V$	SPI	Int. REF		I	3×3 DFN-12, MSOP-12	C.F.

† Primary Sort Column
 †† Secondary Sort Column

Note:

- One cycle latency
- TS = Temperature Sensor

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
LTC2757	18	1	1	± 1 or ± 2	2	Parallel	Ext	Current	0V to 5V, 0V to 10V, $\pm 5V$, $\pm 10V$, $\pm 2.5V$, $-2.5V$ to 7.5V	2.7 to 5.5	1.5 μW	Voltage-Controlled Offset/Gain Trims, Six SoftSpan Ranges, DAC Readback, Power On Reset to 0V	I	7×7 LQFP-48	C.F.
LTC1821	16	1	± 1	± 1	2	Parallel	Ext	Voltage	0V to 10V, 0V to $-10V$, $\pm 10V$	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	$\pm 5V$	± 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 $-10V$, $\pm 10V$	5	55 μW	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 $-10V$, $\pm 10V$	5	55 μW	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	55 μW	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	55 μW	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, $\pm 5V$, $\pm 10V$, $\pm 2.5V$, $-2.5V$ to 7.5V	5	55 μW	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 ² C	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 ² C	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} , 1 μs 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	$\pm V_{REF}$	2.7 to 5.5	0.36	Unbuffered, Matched Resistors for Bipolar V_{OUT} , 1 μs 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, $\pm 5V$, $\pm 10V$, $\pm 2.5V$, $-2.5V$ to 7.5V	2.7 to 5.5	2.5 μW	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, $\pm 5V$, $\pm 10V$, $\pm 2.5V$, $-2.5V$ to 7.5V	2.7 to 5.5	2.5 μW	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 ² C	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

† 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
LTC2635-12	12	4	±1	±2.5	4.2	I ² C	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco; Zero-Scale, Mid-Scale or High-Z Reset	I, H	3×3 QFN-16, MSOP-10	C.F.
LTC2656-12	12	8	±0.5	±1	4.6	Serial SPI	1.25V or 2.048V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to 2*Ext V _{REF}	2.7 to 5.5	9.3	Octal, 10ppm/°C (Max) Reference Tempco, Zero-Scale/Midscale Power-On Reset, SDO For Data Readback	I, H	4×5 QFN-20, eTSSOP-20	\$8.75
LTC2657-12	12	8	±0.5	±1	4.6	I ² C	1.25V or 2.048V	Voltage	0V to 2.5V, 0 to 4.096V, 0V to 2*Ext V _{REF}	2.7 to 5.5	9.3	Octal, 10ppm/°C (Max) Reference Tempco, Zero-Scale/Midscale Power-On Reset	I	4×4 QFN-20, eTSSOP-20	\$9.15
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	I ² C	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	I ² C	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	±2.5	4.4	Serial SPI	Int	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Reset	I, H	4×3 DFN-14, MSOP-16	\$7.75
LTC2637-12	12	8	±1	±2.5	4.4	I ² C	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	4×3 DFN-14, MSOP-16	\$8.14
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	I ² C	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	I ² C	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/I ² C	Ext	Current	50µA sourcing	2.7 to 5.5	0.55	I _{OUT} DAC, 0 to 50µA Output Current		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	±1	±2.5	3.8	Serial SPI	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	3×3 QFN-16, MSOP-10	\$3.07
LTC2635-10	10	4	±0.5	±1	3.8	I ² C	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco; Zero-Scale, Mid-Scale or High-Z Power-On Reset	I, H	3×3 QFN-16, MSOP-10	C.F.
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	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Reset	I, H	4×3 DFN-14, MSOP-16	\$4.50
LTC2637-10	10	8	±0.5	±1	4	I ² C	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	4×3 DFN-14, MSOP-16	\$4.73
LTC2630-8	8	1	±0.5	±0.5	3.5	Serial SPI	2.5V or 4.096V	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	2.5V or 4.096V	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	I ² C	2.5V or 4.096V	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	I _{OUT} DAC, Sinks 0 to 50µA		SO-8	\$2.55
LTC1329-50	8	1	±0.9			Pulse Mode	Ext	Current	50µA sourcing	2.7 to 6.5	0.84	I _{OUT} DAC, 0 to 50µA Output Current	I	SO-8	\$2.55
LTC1329-10	8	1	±0.9			Pulse Mode	Ext	Current	10µA sourcing	2.7 to 6.5	0.14	I _{OUT} DAC, 0 to 10µA Output Current		SO-8	\$2.55
LTC1840	8	2	±0.9	±4		I ² C	Ext	Current	100µA sourcing	2.7 to 5.75	2.5	Dual I _{OUT} DAC, 0 to 100µA Output Current		SSOP-16	\$2.75
LTC2634-8	8	4	±0.5	±0.5	3.3	Serial SPI	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	3×3 QFN-16, MSOP-10	\$2.03
LTC2635-8	8	4	±0.5	±0.5	3.3	I ² C	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco; Zero-Scale, Mid-Scale or High-Z Power-On Reset	I, H	3×3 QFN-16, MSOP-10	C.F.
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	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Reset	I, H	4×3 DFN-14, MSOP-16	\$2.85
LTC2637-8	8	8	±0.5	±0.5	3.4	I ² C	2.5V or 4.096V	Voltage	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	4×3 DFN-14, MSOP-16	\$2.99

† Primary Sort Column
†† Secondary Sort Column

Amps, Refs,
Filters, CompsPower
ManagementData
Conversion

Interface

RF/Wireless

Space, Military,
Harsh Envir.Reference
Material

HIGH SPEED DACs

Part Number	† Bits	Speed Msps	DNL (LSB)	INL (LSB)	Setting Time (μs)	SFDR (dB)	THD (dB)	Glitch Impulse (pVs)	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-/14-Bit, "-1" Has Reset to Mid-Scale	I	3×3 DFN-10	\$2.70
LTC2606	16	1	±1	±64	10	I ² C	Ext	0V to V _{CC}	2.7 to 5.5	0.8	Pin-Compatible Family 12-/14-Bit, "-1" Has 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	3	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 ² C	Ext	0V to V _{CC}	2.7 to 5.5	1.8	Pin-Compatible Family 12-/14-Bit, Ultralow Crosstalk, "-1" Has Reset to Mid-Scale	I	3×4 DFN-12	\$5.23
LTC2654-16	16	4	±1	±4	8	Serial SPI	1.25V or 2.048V	0V to 2.5V, 0 to 4.096V, 0V to 2*Ext V_{REF}	2.7 to 5.5	9.3	Octal, 10ppm/°C (Max) Reference Tempco, Zero-Scale/ Midscale Power-On Reset	I	4×4 QFN-20, eTSSOP-20	C.F.
LTC2655-16	16	4	±1	±4	8	I²C	1.25V or 2.048V	0V to 2.5V, 0 to 4.096V, 0V to 2*Ext V_{REF}	2.7 to 5.5	9.3	Octal, 10ppm/°C (Max) Reference Tempco, Zero-Scale/ Midscale Power-On Reset	I	4×4 QFN-20, eTSSOP-20	C.F.
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 ² C	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
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	±4	8	Serial SPI	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to 2*Ext V _{REF}	2.7 to 5.5	9	Octal, 10ppm/°C (Max) Reference Tempco, Zero-Scale/Midscale Power-On Reset, SDO For Data Readback	I, H	4×5 QFN-20, eTSSOP-20	\$17.95
LTC2657-16	16	8	±1	±4	8	I²C	1.25V or 2.048V	0V to 2.5V, 0 to 4.096V, 0V to 2*Ext V_{REF}	2.7 to 5.5	9.3	Octal, 10ppm/°C (Max) Reference Tempco, Zero-Scale/ Midscale Power-On Reset	I	4×4 QFN-20, eTSSOP-20	\$18.85
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 ² C	Ext	0V to V _{CC}	2.7 to 5.5	6	Pin-Compatible Family 12-/14-Bit, Ultralow Crosstalk, "-1" Has 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, "-1" Has Reset to Mid-Scale	I	3×3 DFN-10	\$2.25
LTC2616	14	1	±1	±16	9	I ² C	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
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 Energy	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 Energy	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 ² C	Ext	0V to V _{CC}	2.7 to 5.5	1.8	Pin-Compatible Family 12-/16-Bit and Ultralow Crosstalk, "-1" Has 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 ² C	Ext	0V to V _{CC}	2.7 to 5.5	3	Pin-Compatible Family 12-/16-Bit, Ultralow Crosstalk, "-1" Has Reset to Mid-Scale	I	SSOP-16	\$7.35

† Primary Sort Column

†† Secondary 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
LTC2637-12	12	8	±1	±2.5	4.4	I²C	2.5V or 4.096V	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	4×3 DFN-14, MSOP-16	\$8.14
LTC2630-10	10	1	±0.5	±1	4	Serial SPI	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{CC}	2.7 to 5.5	0.54	2.5V or 4.096V DAC Full-Scale Output 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	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	0.54	2.5V or 4.096V DAC Full-Scale Output Options, Reference 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	I ² C	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	0.54	2.5V or 4.096V DAC Full-Scale Output Options, Reference 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	Serial I ² C	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	±1	±2.5	3.8	Serial SPI	2.5V or 4.096V	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	3×3 QFN-16, MSOP-10	\$3.07
LTC2635-10	10	4	±0.5	±1	3.8	I²C	2.5V or 4.096V	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco; Zero-Scale, Mid-Scale or High-Z Power-On Reset	I, H	3×3 QFN-16, MSOP-10	C.F.
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
LTC2636-10	10	8	±0.5	±1	4	Serial SPI	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Reset	I, H	4×3 DFN-14, MSOP-16	\$4.50
LTC2637-10	10	8	±0.5	±1	4	I²C	2.5V or 4.096V	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	4×3 DFN-14, MSOP-16	\$4.73
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
LTC2630-8	8	1	±0.5	±0.5	3.5	Serial SPI	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{CC}	2.7 to 5.5	0.54	2.5V or 4.096V DAC Full-Scale Output 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	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	0.54	2.5V or 4.096V DAC Full-Scale Output Options, Reference 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	I ² C	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	0.54	2.5V or 4.096V DAC Full-Scale Output Options, 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	2.5V or 4.096V	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	3×3 QFN-16, MSOP-10	\$2.03
LTC2635-8	8	4	±0.5	±0.5	3.3	I²C	2.5V or 4.096V	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	2.3	Quad, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale, Mid-Scale or High-Z Power-On Reset	I, H	3×3 QFN-16, MSOP-10	C.F.
LTC2636-8	8	8	±0.5	±0.5	3.4	Serial SPI	1.25V or 2.048V	0V to 2.5V, 0V to 4.096V, 0V to V _{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Reset	I, H	4×3 DFN-14, MSOP-16	\$2.85
LTC2637-8	8	8	±0.5	±0.5	3.4	I²C	2.5V or 4.096V	0V to 2.5V, 0V to 4.096V, 0V to V_{REF}	2.7 to 5.5	3	Octal, Rail-to-Rail Outputs with 10ppm/°C Reference Tempco, Zero-Scale or Mid-Scale Power-On Reset	I, H	4×3 DFN-14, MSOP-16	\$2.99
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

† Primary Sort Column
 †† Secondary Sort Column

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
LTC2757	18	1	1	±1 or ±2	2	Parallel	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, -2.5V to 7.5V	2.7 to 5.5	1.5μW	Voltage-Controlled Offset/Gain Trims, Six SoftSpan Ranges, DAC Readback, Power On Reset to 0V	I	7×7 LQFP-48	C.F.
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
LTC2754-16	16	4	±1	±1 or ±2	2	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, -2.5V to 7.5V	2.7 to 5.5	2.5mW	Extremely Low Power, SoftSpan, Serial Data Readback of All Registers, Low 1.2nV-s Glitch Impulse	I	7×8 QFN-52	\$17.85
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
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
LTC2754-12	12	4	±1	±1	2	Serial SPI	Ext	0V to 5V, 0V to 10V, ±5V, ±10V, ±2.5V, -2.5V to 7.5V	2.7 to 5.5	2.5mW	Extremely Low Power, SoftSpan, Serial Data Readback of All Registers, Low 0.3nV-s Glitch Impulse	I	7×8 QFN-52	\$9.15
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	\$9.15

† 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/I ² C	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/I ² C	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

SIGNAL CHAIN µMODULE RECEIVERS

Part Number	Description	Integrated Components						Supply Voltage (V)	Power (Typ) (W)	Package	Price 1K Qty	
		ADC	ADC Driver	Passive Filter	RF/IF Range	Gain Options (dB)	Other					Output
LTM9001-AA	16-Bit IF Baseband Receiver Subsystem	16-Bit, 130Msps	√	50MHz BP	162MHz (IF)	20	–	LVDS or CMOS	3.3	1.65	11.25×11.25×2.32 LGA	\$82.00
LTM9001-AD	16-Bit IF Baseband Receiver Subsystem	16-Bit, 130Msps	√	25MHz BP	70MHz (IF)	14	–	LVDS or CMOS	3.3	1.65	11.25×11.25×2.32 LGA	\$82.00
LTM9001-BA	16-Bit IF Baseband Receiver Subsystem	16-Bit, 160Msps	√	LP	300MHz (IF)	8	–	LVDS or CMOS	3.3	1.9	11.25×11.25×2.32 LGA	\$91.00
LTM9001-GA	16-Bit IF Baseband Receiver Subsystem	16-Bit, 25Msps	√	LP	10MHz (IF)	8	–	CMOS	3.3	0.55	11.25×11.25×2.32 LGA	\$47.81
LTM9002-AA	Dual 14-Bit IF/Baseband Receiver Subsystem	Dual 14-Bit, 125Msps	Dual	LP	170MHz (IF)	26	–	CMOS	3	1.3	15×11.25×2.32 LGA	\$99.25
LTM9002-LA	Dual 14-Bit IF/Baseband Receiver Subsystem	Dual 12-Bit, 65Msps	Dual	LP	25MHz (IF)	8/20	–	CMOS	3	0.7	15×11.25×2.32 LGA	\$32.75
LTM9003-AA	12-Bit Digital Pre-Distortion Receiver Subsystem	12-Bit, 250Msps	√	125MHz BP	0.4GHz to 3.8GHz (RF)	–	3.3V Mixer	LVDS	2.5 & 3.3	1.5	15×11.25×2.32 LGA	\$45.00
LTM9003-AB	12-Bit Digital Pre-Distortion Receiver Subsystem	12-Bit, 250Msps	√	125MHz BP	0.4GHz to 3.7GHz (RF)	–	5V Mixer	LVDS	2.5 & 3.3 & 5	1.6	15×11.25×2.32 LGA	\$45.00

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/I ² C	Precision Low Power, Break-Before-Make, SMBus/I ² C 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/I ² C	Precision Low Power, Break-Before-Make, SMBus/I ² C 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

Interface

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

Amps, Refs,
Filters, Comps

Power
Management

Data
Conversion

Interface

RF/Wireless

Space, Military,
Harsh Envir.

Reference
Material

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	I	SO(W), DIP	18, 16	\$2.70
LTC1327	3	5	3	250		1.5	yes			10	4 × 0.1μF		RS562	I	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	I	SSOP, SO(W), DIP	28	\$4.60
LTC1347	3	5	5	250		1.5	yes	5		10	4 × 0.1μF		RS232	I	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	I	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	I	SSOP/SO(W)/DIP	28	\$3.90
LT1342	3	5	5	250	3V	60	yes			10	6 × 0.1μF		RS232	I	SSOP, SO(W), DIP	28	\$3.75
LT1537	3	5	5	250		60	yes		yes	2	6 × 0.1μF		RS232	I	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	I	SO(W), DIP	24	\$3.20
LT1331	3	5	3	250	3V	42	yes	1	yes	10	6 × 0.1μF		RS562/ RS232	I	SSOP, SO(W), DIP	28	\$3.90
			5			60											
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	I	SO(W), DIP	24	\$3.90
LT1136A	4	5	5	250		125	yes		yes	10	6 × 0.1μF		RS232	I	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	I	SO(W), DIP	20	\$3.70
LT1140A	5	3	5	250	±12V	195	yes		yes	10	none		RS232	I	SO(W), DIP	24	\$3.20
LT1131A	5	4	5	250		125	yes		yes	10	6 × 0.1μF		RS232	I	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

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
LTM2881-3	1	1	3	20M	24 typ	yes		15	Isolated (2500V_{RMS}), No External Components, On-Chip Isolated DC/DC Converter (5V@90mA), Low EMI Mode	I	15×11.25×2.8 LGA, BGA	\$8.45
LTM2881-5	1	1	5	20M	16 typ	yes		15	Isolated (2500V_{RMS}), No External Components, On-Chip Isolated DC/DC Converter (5V@90mA), Low EMI Mode	I	15×11.25×2.8 LGA, BGA	\$8.45
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/DRV 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, Dvr Slew Rate Control	I	4×3 DFN-12, SSOP-16	\$1.70
LTC2857-1*	1	1	5	20M	900μA		75179	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	250k	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
LTM2882-3	1	1	3	20M	24 typ	yes		15	Isolated (2500V_{RMS}), No External Components, On-Chip Isolated DC/DC Converter (5V@90mA), Low EMI Mode	I	15×11.25×2.8 LGA, BGA	C.F.
LTM2882-5	1	1	5	20M	16 typ	yes		15	Isolated (2500V_{RMS}), No External Components, On-Chip Isolated DC/DC Converter (5V@90mA), Low EMI Mode	I	15×11.25×2.8 LGA, BGA	C.F.
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	I	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

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	SSOP-44 SSOP-44 SSOP-24	\$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	SSOP-28 SSOP-28 SSOP-24	\$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	SSOP-44 SSOP-28 SSOP-24	\$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	SSOP-28 SSOP-36 SSOP-24	\$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	SSOP-28 SSOP-28	\$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	SSOP-28 SSOP-36	\$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, 2x2 DFN-6	\$1.55
LTC1694	yes									100kHz	I 275µA Current Source with Steady State DC Levels or Negative Bus Transitions	ThinSOT	\$1.30
LTC1694-1	yes									100kHz	I Sources Zero Current with Steady State DC Levels or Negative Bus Transitions	ThinSOT	\$1.30
LTC4300A-1	yes	yes	2.7 to 5.5	Auto, V _{PULL-UP} ≥ 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, 3x3 DFN-8	\$1.75
LTC4301	yes	yes	2.7 to 5	Auto		yes	yes			400kHz	I	MSOP-8, 3x3 DFN-8	\$1.95
LTC4301L	yes	yes	1 to 2.7/5.5 ⁽²⁾	Auto		yes	yes			400kHz	I Level Translates from 1V	MSOP-8, 3x3 DFN-8	\$2.05
LTC4302-1	yes	yes	2.7 to 5.5	Auto, V _{PULL-UP} ≥ 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} ≥ V _{CC}	Both	yes	yes			400kHz	I	MSOP-8, 3x3 DFN-8	\$2.10
LTC4304	yes ⁽¹⁾	yes	2.7 to 5.5	Auto	Both	yes	yes		yes	400kHz	I	MSOP-10, 3x3 DFN-10	\$2.20
LTC4305	yes ⁽¹⁾	yes	2.2 to 5.5	Auto	Disconnect	yes		yes	yes	400kHz	I 2:1 Multiplexer, 27 Distinct Addresses	SSOP-16, 4x5 DFN-16	\$2.80
LTC4306	yes ⁽¹⁾	yes	2.2 to 5.5	Auto	Disconnect	yes		yes	yes	400kHz	I 4:1 Multiplexer, 27 Distinct Addresses	SSOP-24, 4x5 QFN-24	\$3.50
LTC4307	yes	yes	2.3 to 5.5	Auto, V _{PULL-UP} ≥ V _{CC}	Both	yes	yes			400kHz	I Low 60mV Offset Voltage	MSOP-8, 3x3 DFN-8	\$2.15
LTC4307-1	yes	yes	2.3 to 5.5	Auto, V _{PULL-UP} ≥ V _{CC}		yes	yes			400kHz	I For HDMI DDC Bus, HDMI Compliant, 60mV Offset Voltage	MSOP-8, 3x3 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, 3x3 DFN-8	\$2.15
LTC4309	yes ⁽¹⁾	yes	2.3 to 5.5	Auto	Both	yes	yes	yes	yes	400kHz	I Low 60mV Offset Voltage	SSOP-16, 4x3 DFN-12	\$2.25

- 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

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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		Supply Current (mA)	Package	Price 1K Qty
									Min (V)	Max (V)			
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		Supply Current (mA)	Package	Price 1K Qty
									Min (V)	Max (V)			
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	\$5.25
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

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

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		Supply Current (mA)	Package	Price 1K Qty
									Min (V)	Max (V)			
LTC5541	Integrated Transformer & IF Amp	1300	2300	26.4	9.6	7.8	0	32	3.1	3.5 ⁽¹⁾	190	5×5 QFN-20	C.F.
LTC5542	Integrated Transformer & IF Amp	1700	2700	26.4	9.9	7.8	0	33	3.1	3.5 ⁽¹⁾	200	5×5 QFN-20	C.F.
LTC5540	Integrated Transformer & IF Amp	600	1300	26	10.1	7.8	0	33	3.1	3.5 ⁽¹⁾	200	5×5 QFN-20	C.F.
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
LTC5543	Integrated Transformer & IF Amp	2300	4000	24.5	10.2	8.4	0	34	3.1	3.5 ⁽¹⁾	200	5×5 QFN-20	C.F.
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
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

Note

1. The IF Amplifier can be powered from 3.1V to 5.3V

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		Supply Current (mA)	Package	Price 1K Qty
								Min (V)	Max (V)			
LTC5598	Super High Linearity	30	1600	28	-160.5	-45	-52	4.5	5.25	160	4×4 QFN-16	\$5.19
LT5518	$R_{IN}=3k\Omega$, $V_{CM}=2.1V$	1500	2400	22.8	-158.2	-40	-49	4.5	5.25	128	4×4 QFN-16	\$4.95
LT5568	$R_{IN}=50\Omega$, $V_{CM}=0.54V$	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	$R_{IN}=3k\Omega$, $V_{CM}=2.1V$	600	1100	22.4	-158	-49	-43.7	4.5	5.25	108	4×4 QFN-16	\$5.35
LT5528	$R_{IN}=50\Omega$, $V_{CM}=0.53V$	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		Supply Current (mA)	Package	Price 1K Qty
											Min (V)	Max (V)			
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		Supply Current (mA)	Package	Price 1K Qty
									Min (V)	Max (V)			
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
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

VCSEL LASER DIODE DRIVER

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

Space, Military and Harsh Environment

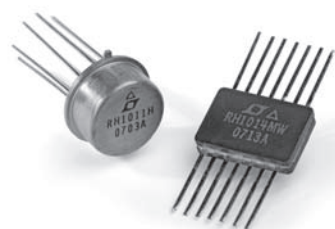
Space Qualified
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High Temperature
(200°C) X-Grade
Hermetic Products
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High Performance Radiation Hardened (RH) Solutions From Linear Technology

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 Itcspace@linear.com

RADIATION HARD AMPLIFIERS

Part Type	RH DICE Inside™	Description	Typical GBW (MHz)	Ch	Max V_{OS} @ 25°C (μV)	Max I_{OS} @ 25°C (nA)	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RH101A		Operational Amplifier	0.1	1	2000	10	TO-5, DIP-8, FP-10	Released	200K			05-08-5015 REV L
RH101ADICE		Operational Amplifier	0.1	1	2000	10	DICE	Released	200K			05-08-5154 REV C
MSK0041RH	RH101ADICE	General Purpose Class C Op Amp (0.5A Peak Output)	0.1	1	3000	100	12-pin TO-8	Qual Build	100K			
MSK106RH	RH101ADICE	General Purpose Class C Op Amp (2A Peak Output)	0.1	1	3000	100	20-pin flatpack	Released	100K			
RH1078M		Dual Micropower 200kHz Precision Op Amp	0.2	2	120	0.8	TO-5, DIP-8, FP-10	Released	100K	Report	Report	05-08-5020 REV K
RH1078DICE		Dual Micropower 200kHz Precision Op Amp	0.2	2	120	0.8	DICE	Released	100K	Report		05-08-5209 REV A
RH07		Precision 0.4MHz Operational Amplifier	0.4	1	75	2.8	TO-5, DIP-8, FP-10	Released	200K			05-08-5010 REV K
RH07CDICE		Precision 0.4MHz Operational Amplifier	0.4	1	100	3	DICE	Released	200K			
RH1013M		Dual 0.5MHz Precision Operational Amplifier	0.5	2	300	10	TO-5, DIP-8, FP-10	Released	200K	See RH1014	Report	05-08-5013 REV L
RH1013DICE		Dual 0.5MHz Precision Operational Amplifier	0.5	2	300	10	DICE	Released	200K	See RH1014		05-08-5112 REV E
RH1014M		Quad 0.5MHz Precision Operational Amplifier	0.5	4	300	10	DIP-14, FP-14	Released	200K	Report		05-08-5014 REV S
MSK114RH	RH1013DICE x 2	Quad 0.5MHz Precision Operational Amplifier⁽⁶⁾	0.5	4	300	10	FP-14	Qual Build				
RH108A		General Purpose Operational Amplifier	0.5	1	500	0.2	TO-5, DIP-8, FP-10	Released	80K	Report		05-08-5022 REV M
RH108ADICE		General Purpose Operational Amplifier	0.5	1	500	0.2	DICE	Released	80K	Report		05-08-5111 REV F
RH27AE		Precision 5MHz Operational Amplifier, 35μV Offset	5.0	1	35	35	FP-10	Released	200K	Report		05-08-5029 REV T
RH27E		Precision 5MHz Operational Amplifier, 55μV Offset	5.0	1	55	35	TO-5, FP-10	Released	200K	Report		05-08-5029 REV T
RH27C		Precision 5MHz Operational Amplifier, 100μV Offset	5.0	1	100	75	TO-5, DIP-8, FP-10	Released	200K	Report		05-08-5029 REV T
RH27CDICE		Precision 5MHz Operational Amplifier, 150μV Offset	5.0	1	150	85	DICE	Released	200K	Report		05-08-5114 REV F
RH1056A		Precision High Speed JFET Input Operational Amplifier	6.5	1	300	0.01	TO-5, FP-10	Released	200K			05-08-5019 REV P
RH1056DICE		Precision High Speed JFET Input Operational Amplifier	6.5	1	500	0.05	DICE	Released	200K			05-08-5212 REV A
RH1498M		Dual 10MHz 6V/μs Rail-to-Rail Input/Output Precision C-Load	10.0	2	800	70	FP-10	Released	200K	See RH1499		05-08-5201 REV D
RH1498DICE		Dual 10MHz 6V/μs Rail-to-Rail Input/Output Precision C-Load	10.0	2	800	70	DICE	Released	200K	See RH1499		05-08-5208 REV C
RH1499M		Quad 10MHz 6V/μs Rail-to-Rail Input/Output Precision C-Load	10.0	4	800	70	FP-14	Released	200K	Report	Report	05-08-5199 REV D
RH118		Precision/ High Speed Operational Amplifier	15.0	1	4000	50	TO-5, DIP-8, FP-10	Released	200K			05-08-5025 REV N
RH1128M		Ultralow Noise 20MHz Precision High Speed Op Amp, $A_v \geq 1$	20.0	1	80	150	FP-10	Released	200K	Q2CY10		05-08-5218 REV A
RH1128DICE		Ultralow Noise 20MHz Precision High Speed Op Amp, $A_v \geq 1$	20.0	1	300	150	DICE	Released	200K	Q2CY10		05-08-5238 REV O

Manufacturer prefix codes: RH = Linear Technology Radiation Hardened Products, MSK = MS Kennedy, VRG = Areoflex, RAD = Radiation Assured Devices, Inc. All devices feature Linear Technology's RH Dice Inside™.

RADIATION HARD AMPLIFIERS

Part Type	RH DICE Inside™	Description	Typical GBW (MHz)	Ch	Max V _{OS} @ 25°C (μV)	Max I _{OS} @ 25°C (nA)	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RH37C		Precision 45MHz Operational Amplifier	45.0	1	100	75	TO-5, DIP-8, FP-10	Released	200K			05-08-5030 REV M
RH37BKDICE		Precision 45MHz Operational Amplifier	45.0	1			DICE	Released	200K			
RH1028M		Ultralow Noise 75MHz Prec. High Speed Op Amp, Av≥2 or Av≤-1	75.0	1	80	150	FP-10	Released	200K	Q2CY10		05-08-5217 REV A
RH1028DICE		Ultralow Noise 75MHz Prec. High Speed Op Amp, Av≥2 or Av≤-1	75.0	1	300	150	DICE	Released	200K	Q2CY10		05-08-5238 REV O
RH1814M		Quad 3mA/ 100MHz/750V/μs Operational Amplifier	100.0	4	1500	400	FP-14	Released	200K	Q4FY09		05-08-5204 REV C
RH1814DICE		Dual 3mA/ 100MHz/750V/μs Operational Amplifier	100.0	2	1500	400	DICE	Released	200K	Q4FY09		05-08-5220 REV B

RADIATION HARD COMPARATORS

Part Type	RH DICE Inside™	Description	Typical tPD (ns)	Ch	Max V _{OS} @ 25°C (μV)	Max I _{OS} @ 25°C (nA)	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RH1016M		UltraFast 10ns Precision Comparator	10	1	3	1000	FP-10	Released	200K	Q4CY09		05-08-5222 REV O
RH1016DICE		UltraFast 10ns Precision Comparator	10	1	3	1000	DICE	Released	200K	Q4CY09		05-08-5242 REV O
RH119		Dual High Performance Comparator	80	2	4	75	TO-5, DIP-8, FP-10	Released	200K	Report	Report	05-08-5026 REV U
MSK119RH	RH119DICE	Dual High Performance Comparator⁽⁵⁾	80	2	4	75	FP-10	Qual Build				
RH119DICE		Dual High Performance Comparator	80	2	4	75	DICE	Released	200K	Report		05-08-5145 REV G
RH1011		Precision Voltage Comparator	150	1	1.5	4	TO-5, DIP-8, FP-10	Released	200K	Report	Report	05-08-5012 REV M
MSK120RH	RH1011DICE	Precision Voltage Comparator⁽⁵⁾	150	1	1.5	4	FP-10	Qual Build				
RH1011DICE		Precision Voltage Comparator	150	1	1.5	4	DICE	Released	200K	Report		05-08-5149 REV E
RH111		Voltage Comparator (Use RH1011 for New Designs)	200	1	3	10	TO-5, DIP-8, FP-10	Released	200K			05-08-5023 REV K

RADIATION HARD REFERENCES

Part Type	RH DICE Inside™	Description	Accuracy %	Reference Voltage	Max PPM/°C @ 25°C	Typical PPM/Khr	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RH1034M-1.2		Micropower Dual Reference, 1.2V and 7V	1.2/4.2	1.2/7.0	60	20	FP-10, TO-46	Released	200K	Q4CY09		05-08-5229 REV O
RH1009M		Precision 2.5V Reference	2.0	2.5	25	20	TO-46, FP-10	Released	200K	Report	Report	05-08-5011 REV N
MSK109RH	RH1009DICE	Precision 2.5V Reference⁽⁵⁾	2.0	2.5	25	20	FP-10	Qual Build				
RH1009DICE		Precision 2.5V Reference	2.0	2.5	–	–	DICE	Released	200K	Report		05-08-5115 REV G
RH1021BM-5		Precision 5V Reference	1.0	5.0	5	15	TO-5	Released	200K	Report		05-08-5016 REV P
RH1021C-5DICE		Precision 5V Reference	0.5	5.0	–	–	DICE	Released	200K	Report		05-08-5117 REV H
RH1021CM-5		Precision 5V Reference	0.5	5.0	20	15	TO-5, FP-10	Released	200K	Report		05-08-5016 REV P
RH1021DM-5		Precision 5V Reference	1.0	5.0	20	15	TO-5	Released	200K	Report		05-08-5016 REV P
RH129A		Precision 6.9V Reference	2.1	6.9	10	20	TO-46	Released	200K			05-08-5027 REV H
RH1021BM-7		Precision 7V Reference	0.7	7.0	5	7	TO-5	Released	200K	See RH1021-5		05-08-5017 REV H
RH1021DM-7		Precision 7V Reference	7.0	7.0	20	7	TO-5	Released	200K	See RH1021-5		05-08-5017 REV H
RH1021BM-10		Precision 10V Reference	0.05	10.0	5	15	TO-5	Released	200K	See RH1021-5		05-08-5018 REV N
RH1021C-10DICE		Precision 10V Reference	0.5	10.0	–	–	DICE	Released	200K	See RH1021-5		05-08-5118 REV G
RH1021CM-10		Precision 10V Reference	0.5	10.0	20	15	TO-5, FP-10	Released	200K	See RH1021-5		05-08-5018 REV N

RADIATION HARD VOLTAGE REGULATOR DRIVER

Part Type	RH DICE Inside™	Description	Accuracy %	Reference Voltage	V _{OUT}	Drop Out V Capability	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RH1573KDICE		LDO Regulator Driver, up to 5A with External PNP	1.0	1.265	Adjustable	<0.2V	Dice	Released	200K	Report		05-08-5223 REV A

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RADIATION HARD POSITIVE VOLTAGE REGULATORS

Part Type	RH DICE Inside™	Description	Pos. Reg. I _{OUT} (A)	Neg. Reg. I _{OUT} (A)	V _{OUT}	Drop Out V Capability	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RH1086MH		0.5A Positive Adjustable Voltage LDO Regulator	0.5		Adjustable	1.25V @ 0.5A	TO-39	Released	200K	Q2CY10		05-08-5021 REV H
RH1086BHKDICE		0.5A Positive Adjustable Voltage LDO Regulator	0.5		Adjustable	1.25V @ 0.5A	DICE	Released	200K	Q2CY10		05-08-5134 REV F
RH117H		0.5A Positive Adjustable Regulator	0.5		Adjustable	1.8V @ 0.5A	TO-39	Released	100K	Report	C.F. ⁽⁶⁾	05-08-5024 REV K
RH117HDICE		0.5A Positive Adjustable Regulator	0.5		Adjustable	1.8V @ 0.5A	DICE	Released	100K	Report	C.F. ⁽⁶⁾	05-08-5116 REV F
MSK5977RH	RH3080MKDICE	0.9A Adjustable, LDO, Split Bias⁽⁵⁾	0.9		Adjustable to zero	TBD	3-pin TO-257 style	Qual Build				
VRG8662	RH1086BKDICE	1A Positive Adjustable Regulator, Surface Mount	1.0		Adjustable	1.25V @ 1A	SMD-0.5	Released	100K			5962-0920701KXX
MSK5976RH	RH3080MKDICE	1A Adjustable, LDO, Isolated Tab⁽⁵⁾	1.0		Adjustable to zero	TBD	3-pin TO-257 style	Qual Build				
MSK5978RH	RH3080MKDICE	1A Adjustable, LDO, Split Bias⁽⁵⁾	1.0		Adjustable to zero	TBD	10-pin ceramic FP	Qual Build				
RH3080MKDICE		1A Adjustable, Current Source LDO	1.0		Adjustable to zero	350mV @ 1.0A	DICE	Qual				
RH1086MK		1.5A Positive Adjustable Voltage LDO Regulator	1.5		Adjustable	1.5V @ 1.5A	TO3	Released	200K	Q2CY10		05-08-5021 REV H
RH1086BKDICE		1.5A Positive Adjustable Voltage LDO Regulator	1.5		Adjustable	1.5V @ 1.5A	DICE	Released	200K	Q2CY10		05-08-5134 REV F
RH117K		1.5A Positive Adjustable Regulator	1.5		Adjustable	2.2V @ 1.5A	TO3	Released	100K	Report	C.F. ⁽⁶⁾	05-08-5024 REV K
RH117KDICE		1.5A Positive Adjustable Regulator	1.5		Adjustable	2.2V @ 1.5A	DICE	Released	100K	Report	C.F. ⁽⁶⁾	05-08-5116 REV F
MSK5970RH	RH1086BKDICE	1.5A Positive Adjustable Voltage LDO Regulator	1.5		Adjustable	1.3V @ 1.5A	3-pin TO-257 style	Qual	100K			5962R0921101KXX
MSK5970RHL	RH1086BKDICE	1.5A Positive Adjustable Voltage LDO Regulator	1.5		Adjustable	1.3V @ 1.5A	SMD-1	Qual Build	100K			5962R0921101KUX
MSK5972RH	RH117KDICE	1.5A Positive Adjustable Voltage LDO Regulator	1.5		Adjustable	2.2V @ 1.5A	3-pin TO-257 style	Qual	100K			5962R0921301KXX
MSK5972RHL	RH117KDICE	1.5A Positive Adjustable Voltage LDO Regulator	1.5		Adjustable	2.2V @ 1.5A	SMD-1	Qual Build	100K			5962R0921301KUX
VRG8660	RH117KDICE	1.5A Positive Adjustable Regulator, Surface Mount	1.5		Adjustable	2.2V @ 1.5A	SMD-0.5	Released	100K			5962-0920601KXX
MSK5953RH	RH3080MKDICE x 2	1A+1A Adjustable, Dual LDO	2.0		Adjustable to zero	TBD	12-pin flatpack	Qual Build				
RH1085MK		3A Positive Adjustable Voltage LDO Regulator	3.0		Adjustable	1.5V @ 3A	TO-3	Released	200K	Q2CY10		05-08-5105 REV J
RH1085MKDICE		3A Positive Adjustable Voltage LDO Regulator	3.0		Adjustable	1.5V @ 3A	DICE	Released	200K	Q2CY10		05-08-5140 REV E
MSK5823-1.8	RH1573KDICE	3A Ultralow Dropout Fixed Voltage Regulator	3.0		1.8V	1.0V @ 3A	8-pin flatpack	Released	300K	Report ⁽⁴⁾		5962F0824601
MSK5823-2.5	RH1573KDICE	3A Ultralow Dropout Fixed Voltage Regulator	3.0		2.5V	0.3V @ 3A	8-pin flatpack	Released	300K	Report ⁽⁴⁾		5962F0824602
MSK5824	RH1573KDICE	3A Ultralow Dropout Adjustable Regulator	3.0		Adjustable	0.3V @ 3A	8-pin flatpack	Released	300K	Report ⁽⁴⁾	C.F. ⁽⁶⁾	5962F0920801
MSK5825-2.5	RH1573KDICE	3A Ultralow Dropout Fixed Voltage Regulator	3.0		2.5V	0.3V @ 3A	8-pin flatpack	Released	300K	Report ⁽⁴⁾	C.F. ⁽⁶⁾	5962F0920901
MSK5825-3.3	RH1573KDICE	3A Ultralow Dropout Fixed Voltage Regulator	3.0		3.3V	0.3V @ 3A	8-pin flatpack	Released	300K	Report ⁽⁴⁾	C.F. ⁽⁶⁾	5962F0920902
MSK5826	RH1573KDICE	3A Ultralow Dropout Adjustable Regulator	3.0		Adjustable	0.3V @ 3A	8-pin flatpack	Released	300K	Report ⁽⁴⁾	C.F. ⁽⁶⁾	5962F0921001
MSK5971RH	RH1085MKDICE	3A Positive Adjustable Voltage LDO Regulator	3.0		Adjustable	1.3V @ 3A	3-pin TO-257 style	Qual	100K			5962R0921201KXX
MSK5971RHL	RH1085MKDICE	3A Positive Adjustable Voltage LDO Regulator	3.0		Adjustable	1.3V @ 3A	SMD-1	Qual Build	100K			5962R0921201KUX
MSK5800	RH1573KDICE	4A Ultralow Dropout Adjustable Regulator	4.0		Adjustable	0.3V @ 1.5A	12-pin flatpack	Released	300K	Report ⁽⁴⁾		5962F0921601
RH1084MK		5A Positive Adjustable Voltage LDO Regulator	5.0		Adjustable	1.5V @ 5A	TO-3	Released	200K			05-08-5104 REV G
RH1084MKDICE		5A Positive Adjustable Voltage LDO Regulator	5.0		Adjustable	1.5V @ 5A	DICE	Released	200K			05-08-5227 REV A
MSK5810	RH1573KDICE	5A Ultralow Dropout Adjustable Regulator, Split Bias	5.0		Adjustable	0.11V @ 1A	20-pin flatpack	Released	300K	Report ⁽⁴⁾		5962F0921602
MSK5820-1.5	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		1.5V	1.4V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921604
MSK5820-1.8	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		1.8V	1.1V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921610
MSK5820-1.9	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		1.9V	1.0V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921605
MSK5820-2.5	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		2.5V	0.3V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921606
MSK5820-2.8	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		2.8V	0.3V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921607
MSK5820-3.3	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		3.3V	0.3V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921608
MSK5820-5.0	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		5.0V	0.3V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921609
MSK5821	RH1573KDICE	5A Ultralow Dropout Adjustable Regulator	5.0		Adjustable	0.3V @ 3A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921603
MSK5822-1.5	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		1.5V	0.22V @ 2A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921604
MSK5822-1.9	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		1.9V	0.22V @ 2A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921605
MSK5822-2.5	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		2.5V	0.22V @ 2A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921606
MSK5822-2.8	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		2.8V	0.22V @ 2A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921607
MSK5822-3.3	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		3.3V	0.22V @ 2A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921608
MSK5822-5.0	RH1573KDICE	5A Ultralow Dropout Fixed Voltage Regulator	5.0		5.0V	0.22V @ 2A	5-pin top-tab	Released	300K	Report ⁽⁴⁾		5962F0921609
MSK5950RH	RH1009+RH1573K	5A Ultralow Voltage Adjustable Regulator, Split Bias	5.0		Adjustable to zero	0.11V @ 1A	20-pin flatpack	Qual	300K			5962F0921501
MSK5951RH	RH1573KDICE	10A Adjustable, Ultralow Dropout Regulator, Split Bias	10.0		Adjustable	0.11V @ 2A	12-pin tab pkg	Prototype Test				

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Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

RADIATION HARD NEGATIVE VOLTAGE REGULATORS

Part Type	RH DICE Inside™	Description	Pos. Reg. I _{OUT} (A)	Neg. Reg. I _{OUT} (A)	V _{OUT}	Drop Out V Capability	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RH137H		0.5A Negative Adjustable Voltage Regulator		0.5	Adjustable	1.8V @ 0.5A	TO-39	Released	200K	Report	Report	05-08-5028 REV J
RH137HDICE		0.5A Negative Adjustable Voltage Regulator		0.5	Adjustable	1.8V @ 0.5A	DICE	Released	200K	Report	Report	05-08-5113 REV F
RH137K		1.5A Negative Adjustable Voltage Regulator		1.5	Adjustable	2.2V @ 1.5A	TO3	Released	200K	Report	Report	05-08-5028 REV J
RH137KDICE		1.5A Negative Adjustable Voltage Regulator		1.5	Adjustable	2.2V @ 1.5A	DICE	Released	200K	Report	Report	05-08-5113 REV F
MSK5973RH	RH137KDICE	1.5A Negative Adjustable Voltage LDO Regulator		1.5	Adjustable	2.2V @ 1.5A	3-pin TO-257 style	Qual	100K			5962R0921401KXX
MSK5973RHL	RH137KDICE	1.5A Negative Adjustable Voltage LDO Regulator		1.5	Adjustable	2.2V @ 1.5A	SMD-1	Qual Build	100K			5962R0921401KUX
VRG8661	RH137KDICE	1.5A Negative Adjustable Regulator, Surface Mount		1.5	Adjustable	2.2V @ 1.5A	SMD-0.5	Released	100K			5962-0920602KXX
RH1185MK		3A Negative LDO with Adjustable Current Limit		3.0	Adjustable	1.0V @ 3.0A	TO3	Released	200K	Q1CY10		05-08-5206 REV 0
RH1185MKDICE		3A Negative LDO with Adjustable Current Limit		3.0	Adjustable	1.05V @ 3.0A	DICE	Released	200K	Q1CY10		05-08-5232 REV 0
MSK5940-5.0RH	RH1185MKDICE	3A Negative Fixed Voltage LDO Regulator		3.0	-5.0V	0.6V @ 2.0A	3-pin TO-257 style	Qual Build	100K			
MSK5940-5.2RH	RH1185MKDICE	3A Negative Fixed Voltage LDO Regulator		3.0	-5.2V	0.6V @ 2.0A	3-pin TO-257 style	Qual Build	100K			
MSK5940-10RH	RH1185MKDICE	3A Negative Fixed Voltage LDO Regulator		3.0	-10V	0.6V @ 2.0A	3-pin TO-257 style	Qual Build	100K			
MSK5940-12RH	RH1185MKDICE	3A Negative Fixed Voltage LDO Regulator		3.0	-12V	0.6V @ 2.0A	3-pin TO-257 style	Qual Build	100K			
MSK5940-15RH	RH1185MKDICE	3A Negative Fixed Voltage LDO Regulator		3.0	-15V	0.6V @ 2.0A	3-pin TO-257 style	Qual Build	100K			
VRG8663	RH1185MKDICE	3A Negative Adjustable Regulator, Surface Mount		3.0	Adjustable	1.3V @ 3A	SMD-5 Pad	Released	100K			5962-0920702KYY

RADIATION HARD DUAL POSITIVE VOLTAGE REGULATORS

Part Type	RH DICE Inside™	Description	Pos. Reg. I _{OUT} (A)	Neg. Reg. I _{OUT} (A)	V _{OUT}	Drop Out V Capability	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
VRG8657	Dual RH1086BKKDICE	1A Dual Positive Adjustable LDO Regulator, Thru Hole	Dual 1.0		Adjustable	1.3V @ 1A	6-pin power pack	Released	100K			5962-0920102KXX
VRG8658	Dual RH1086BKKDICE	1A Dual Positive Adjustable LDO Regulator, Surface Mount	Dual 1.0		Adjustable	1.3V @ 1A	6-pin power pack	Released	100K			5962-0920102KYY
VRG8607	Dual RH117KDICE	1.5A Dual Positive Adjustable Regulator, Thru Hole	Dual 1.5		Adjustable	2.2V @ 1.5A	6-pin power pack	Released	100K			5962-0521903KXX
VRG8608	Dual RH117KDICE	1.5A Dual Positive Adjustable Regulator, Surface Mount	Dual 1.5		Adjustable	2.2V @ 1.5A	6-pin power pack	Released	100K			5962-0521903KYY

RADIATION HARD DUAL NEGATIVE VOLTAGE REGULATORS

Part Type	RH DICE Inside™	Description	Pos. Reg. I _{OUT} (A)	Neg. Reg. I _{OUT} (A)	V _{OUT}	Drop Out V Capability	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
VRG8609	Dual RH137KDICE	1.5A Dual Negative Adjustable Regulator, Thru Hole		Dual 1.5	Adjustable	2.2V @ 1.5A	6-pin power pack	Released	100K			5962-0521904KXX
VRG8610	Dual RH137KDICE	1.5A Dual Negative Adjustable Regulator, Surface Mount		Dual 1.5	Adjustable	2.2V @ 1.5A	6-pin power pack	Released	100K			5962-0521904KYY

RADIATION HARD DUAL POSITIVE AND NEGATIVE REGULATORS

Part Type	RH DICE Inside™	Description	Pos. Reg. I _{OUT} (A)	Neg. Reg. I _{OUT} (A)	V _{OUT}	Drop Out V Capability	Package Style	Base PN Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
VRG8651	RH1086BKK+RH1185MK	1A/3A Dual Positive/Negative Adj. LDO Reg, Thru Hole	1.0	3.0	Adjustable	1.3V @ 1A-3A	8-pin power pack	Released	100K			5962-0920101KXX
VRG8652	RH1086BKK+RH1185MK	1A/3A Dual Positive/Negative Adj. LDO Reg, Surface Mount	1.0	3.0	Adjustable	1.3V @ 1A-3A	8-pin power pack	Released	100K			5962-0920101KYY
VRG8601	RH117K+RH137K	1.5A Dual Positive/Negative Adj. Regulator, Thru Hole	1.5	1.5	Adjustable	2.2 & -2.2V @ 1.5A	6-pin power pack	Released	100K			5962-0521901KXX
VRG8602	RH117K+RH137K	1.5A Dual Positive/Negative Adj. Regulator, Surface Mount	1.5	1.5	Adjustable	2.2 & -2.2V @ 1.5A	6-pin power pack	Released	100K			5962-0521901KYY
MSK5930RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+3.3/-5.2 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5931RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+5.0/-5.0 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5932RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+5.0/-5.2 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5933RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+12.0/-5.0 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5934RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+12.0/-12.0V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5935RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+15.0/-15.0 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5936RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+15.0/-5.0V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5937RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+5.0/-12.0 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5938RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+5.0/-15.0 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			
MSK5939RH	RH1085MK+RH1185MK	3A Dual Positive/Negative Fixed Voltage LDO Regulator	3.0	3.0	+10.0/-10.0 V	1.1 & -0.6V @ 2A	5-pin top-tab	Qual Build	100K			

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Part Type	RH MILDICE Inside™	Description	I _{OUT} (A)	Switching Frequency	V _{IN} Range	V _{OUT} Range	Package Style	Base P/N Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
MSK5044RH	RH1959MILDICE	3.5A Complete Step-Down Switching Regulator	3.5	500kHz	4V to 15V	1.21V to 0.86V _{IN}	5-pin TO-258	Design				
MSK5059RH	RH1959MILDICE	4.5A Step-Down Switching Regulator Controller	4.5	500kHz	4V to 15V	1.21V to 0.86V _{IN}	FP-16	Prototype Build				
MSK5052RH	RH1959MILDICE	Complete Step-Down Switching Regulator	TBD	500kHz	4V to 15V	1.21V to 0.86V _{IN}	TBD flatpack	Design				

RADIATION HARD DATA CONVERTERS

Part Type	RH MILDICE Inside™	Description	F _s (ksps)	Power (mW)	S/(N+D) Ratio @ 100kHz	Full Power Bandwidth (MHz)	Package Style	Base P/N Status	TID ⁽¹⁾	ELDRS ⁽²⁾	SEE ⁽³⁾	SCD or SMD# Reference
RAD1604	RH1604AMILDICE	16-bit, 333ksps Sampling ADC with Shutdown	333	220	89dB	5	36-pin flatpack	Design	C.F. ⁽⁶⁾		C.F. ⁽⁶⁾	
RAD1419A	RH1419AMILDICE	14-Bit, 800ksps Sampling ADC with Shutdown	800	150	81.5dB	20	28-pin flatpack	Qual Build	C.F. ⁽⁶⁾		C.F. ⁽⁶⁾	
RAD1414	RH1414MILDICE	14-Bit, 2.2Msps Sampling ADC	2200	175	80dB	40	28-pin flatpack	Prototype Build	C.F. ⁽⁶⁾		C.F. ⁽⁶⁾	

Notes:

Parametric values given in the tables are pre-irradiation at 25°C; in some cases they also apply over -55°C to 125°C. Refer to individual datasheets.

1. MIL-STD-883 Method 1019 Cond.A
2. MIL-STD-883 Method 1019 Cond.D (to 50Krad accumulated dose for LTC parts)
3. Single Event Effects data from various sources
4. MSK has performed ELDRS testing on MSK5826RH to 100Krad TID. See report for additional information.
5. Contact MSK for MIL-PRF-38535 Qualification and Radiation Status
6. Contact LTC for additional information

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LINEAR TECHNOLOGY JAN S LEVEL PRODUCTS

† 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							
LTC2054MPS5	0.5MHz, Zero Drift Op Amp ($V_{IN}=7V$)	M	n/a	yes	yes	SOT-23	Average Input Offset Drift 40nV/°C
LTC2054HVMPS5	0.5MHz, Zero Drift Op Amp ($V_{IN}=12V$)	M	n/a	yes	yes	SOT-23	Average Input Offset Drift 40nV/°C
LT1882MPS	1MHz, Quad Rail-to-Rail Output, Picoamp Input Precision Op Amp	M	n/a	yes	yes	SO-14	
LT1637MPS8	1.1MHz, 0.4V/ μ s Over-The-Top Micropower, 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	3x3 DFN-8	
LT1112MPS8	Dual 0.75MHz Low Power Precision, Picoamp Input Op Amp	M	n/a	yes	yes	SO-8	
LT1498MPS8	Dual 10MHz, 6V/ μ s, 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	
LT6107MPS5	High Side Current Sense Amplifier	M	n/a	yes	yes	TSOT-23	
DC/DC μModule Regulators							
LTM8020MPV#PBF	V_{IN} DC/DC μ Module	M	yes	n/a	n/a	LGA 6.25x6.25x2.3	
LTM8022MPV#PBF	1A, 36V V_{IN} , DC/DC μ Module	M	yes	n/a	n/a	LGA 9x11.25x2.8	
LTM8023MPV#PBF	2A, 36V V_{IN} , DC/DC μ Module	M	yes	n/a	n/a	LGA 9x11.25x2.8	
LTM8032MPV#PBF	2A, 36V V_{IN} , DC/DC μ Module, Ultralow Noise, EMC Compliant	M	yes	n/a	n/a	LGA 9x15x2.8mm	
LTM8025MPV#PBF	3A, 36V V_{IN} , DC/DC μ Module	M	yes	n/a	n/a	LGA 9x15x4.32mm	
LTM4606MP#PBF	6A Ultralow Noise 18V V_{IN} 5V $_{OUT}$, DC/DC μ Module	M	yes	n/a	n/a	LGA 15x15x2.8	
LTM4612MP#PBF	6A Ultralow Noise 36V V_{IN} 12V $_{OUT}$, DC/DC μ Module	M	yes	n/a	n/a	LGA 15x15x2.8	
LTM4608AMPV#PBF	8A, 2.4V to 5.5V V_{IN} DC/DC μ Module with Tracking, Margining, Multiphase	M	yes	n/a	n/a	LGA 9x15x2.8	
LTM4600HVM#PBF	10A, 28V V_{IN} , DC/DC μ Module	M	yes	n/a	n/a	LGA 15x15x2.8	
LTM4601AHVM#PBF	12A, 28V V_{IN} , DC/DC μ Module, with PLL, Tracking & Margining	M	yes	n/a	n/a	LGA 15x15x2.8	
DC/DC Regulators and Controllers							
LTC340AMPMS8	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	
LTC3414AMPFE	4A, 4MHz, Monolithic Synchronous Step-Down Regulator	M	n/a	yes	yes	TSSOP-20	
LT3724MPFE	4V to 60V V_{IN} Current Mode Switching Regulator Controller	M	n/a	yes	yes	TSSOP-16	
LT3845MPFE	60V Sync Current Mode Step-Down Controller (Adj Freq)	M	n/a	yes	yes	TSSOP-16	
LT3803MPS6	200kHz Fixed Frequency Current Mode Flyback DC/DC Controller, 8.7V Turn On	M	n/a	yes	yes	SOT-23	
LT3803MPS6-3	300kHz Fixed Frequency Current Mode Flyback DC/DC Controller, 8.7V Turn On	M	n/a	yes	yes	SOT-23	
LT3803MPS6-5	200kHz Fixed Frequency Current Mode Flyback DC/DC Controller, 4.8V Turn On	M	n/a	yes	yes	SOT-23	
LTC3824MPMSE	High Voltage Step-Down Controller with 40 μ A 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	5x5 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	2x3 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	
LT1963AMP8	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							
LT3092MPST	40V 200mA Two-Terminal Programmable Current Source	M	n/a	yes	yes	SOT-223	
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	6.5 μ A, 18 μ s Low Voltage, Dual Comparator with 400mV Ref., 1 Inv Input, 1 Non-Inv Input	M	n/a	yes	yes	2x3 DFN-6	
LT6700MPDCB-2	Micropower, Low Voltage, Dual Comparator with 400mV Ref., 2 Inv Inputs	M	n/a	yes	yes	2x3 DFN-6	
LT6700MPDCB-3	Micropower, Low Voltage, Dual Comparator with 400mV Ref., 2 Non-Inv Inputs	M	n/a	yes	yes	2x3 DFN-6	

Amps, Refs,
Filters, CompsPower
ManagementData
Conversion

Interface

RF/Wireless

Space, Military,
Harsh Envir.Reference
Material

MILITARY HERMETIC ICs

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 $\pm 15V$ FET Input Op Amp, Internal Compensation Capacitor	M	n/a	yes	n/a	TO-5, 8-Lead	
LM307H		0.25MHz $\pm 15V$ 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 $\pm 15V$ 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	TO-5, 8-Lead	
LM108AH/883		1MHz $\pm 15V$ 0.5mV V_{OS} Op Amp	M	n/a	yes	n/a	TO-5, 8-Lead	
LM108AJ8		1MHz $\pm 15V$ 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	
LF155H/883		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 $\pm 150mA$ Power Buffer	M	n/a	yes	n/a	TO-39, 4-Lead	
LT1193MJ8		26MHz Video Difference Amplifier	M	n/a	yes	n/a	CERDIP-8	
LT1037MH/883		60MHz Low Noise, Precision Op Amp	M	n/a	yes	n/a	TO-5, 8-Lead	
LT1227MJ8		140MHz Video Current Feedback Amplifier	M	n/a	yes	n/a	CERDIP-8	
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		Dual 0.5MHz Precision Op Amp	M	n/a	yes	n/a	CERDIP-8	
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	
LT1213MJ8		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								
LT1016MH		Ultrafast 10ns Precision Comparator	M	n/a	yes	n/a	TO-5, 10-Lead	
LT1016MH/883		Ultrafast 10ns Precision Comparator	M	n/a	yes	n/a	TO-5, 10-Lead	
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	
LT1018MH		6μs Dual Micropower Comparator	M	n/a	yes	n/a	TO-5, 8-Lead	
LT1018MJ8/883	5962-8650402PA	6μs Dual Micropower Comparator	M	n/a	yes	n/a	CERDIP-8	DSCC or LT Versions Available
LT1017MH/883		10μs Dual Micropower Comparator	M	n/a	yes	n/a	TO-5, 8-Lead	
LT1017MJ8/883	5962-8650401PA	10μs Dual Micropower Comparator	M	n/a	yes	n/a	CERDIP-8	DSCC or LT Versions Available
LTC1041MJ8		80 μs BANG-BANG Controller	M	n/a	yes	n/a	CERDIP-8	
LTC1042MJ8		80 μs Window Comparator	M	n/a	yes	n/a	CERDIP-8	
LM119J/883		80ns Dual Comparator	M	n/a	yes	n/a	TO-5, 10-Lead	
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	
LTC1290CMJ/883		12-Bit, 8-Channel, 50ksps Serial I/O Data Acquisition System	M	n/a	yes	n/a	CERDIP-20	Gain error $\pm 1.0LSB$, Linearity error $\pm 0.5LSB$
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	

Part Number	DSCC SMD#	Description	Temp Range	Gold Terminal Finish	SnPb Terminal Finish	Matte Tin Terminal Finish	Package	Comments ⁽²⁾
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	300 μ A 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	
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	
LT1524J		Regulating Pulse Width Modulator	M	n/a	yes	n/a	CERDIP-16	
Filters								
LTC1061CJ		High Performance Triple Universal Filter Building Block	M	n/a	yes	n/a	CERDIP-20	
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								
LT1020MJ		125mA Micropower Regulator with Comparator	M	n/a	yes	n/a	CERDIP-14	
LT1020MJ/883		125mA Micropower Regulator with Comparator	M	n/a	yes	n/a	CERDIP-14	
LT1120MJ8		125mA Micropower Regulator with Comparator and Shutdown	M	n/a	yes	n/a	CERDIP-8	
LT1120MJ8/883	5962-9322401MPX	125mA Micropower Regulator with Comparator and Shutdown	M	n/a	yes	n/a	CERDIP-8	DSCC or LT Versions Available
LT1086MH		0.5A Positive Regulator, Adjustable, Low Dropout	M	n/a	yes	n/a	TO-39, 3-Lead	
LT1086MH/883		0.5A Positive Regulator, Adjustable, 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⁾								
LT1004MH-1.2		1.2V Micropower Voltage Reference, 1.2% Initial Accuracy, 20ppm/°C (typ) Drift	M	n/a	yes	n/a	TO-46, 2-Lead	
LT1431MJ8		Prog Reference, 2.5 to 36V Output, 0.4% Initial Accuracy, 50ppm/°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	yes	n/a	n/a	TO-46, 4-Lead	
LM399H		6.95V Shunt Reference, 2.2% Initial Accuracy, 15ppm/°C	C	yes	n/a	n/a	TO-46, 4-Lead	
LM129BH		Precision 6.9 Volt 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:

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

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

Amps, Refs,
Filters, Comps

Power
Management

Data
Conversion

Interface

RF/Wireless

Space, Military,
Harsh Envir.

Reference
Material

† 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	T0-5, 8 Lead	
References								
LT580XH		2.5V Precision Voltage Reference	X	n/a	n/a	Yes	T0-52, 3 Lead	
LT581XH		10V Precision Voltage Reference	X	n/a	n/a	Yes	T0-39, 3 Lead	
LT582XH		5V Precision Voltage Reference	X	n/a	n/a	Yes	T0-39, 3 Lead	

† Primary Sort Column
 X temperature grade products are tested at -55°C, 25°C and 200°C

Reference Material

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Top Markings
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Data Conversion Values
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Standard 1% & 5% Resistor Values
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Passive Component Suppliers
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Amps, Refs,
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Space, Military,
Harsh Envir.

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:

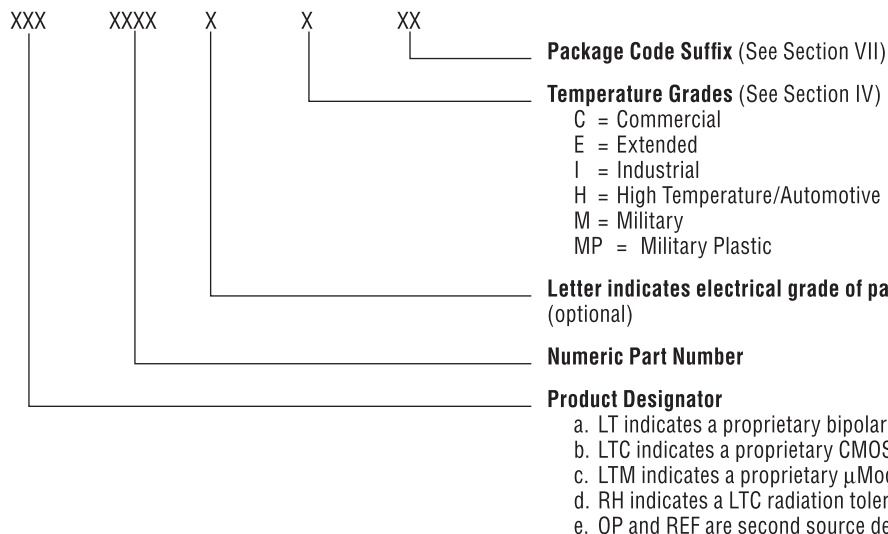
Ordering a part in tape and reel with a Lead (Pb) Free lead finish:

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.

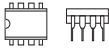
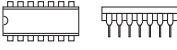
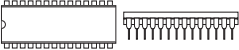

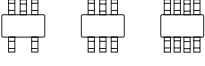


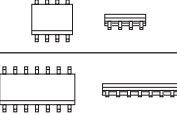
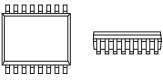
VII. PACKAGE CODE SUFFIXES

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	8.6mm × 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	eMSOP, Exposed Pad	8, 10	3mm × 3mm
MSE	eMSOP, 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

Suffix Designator	Package Name	Number of Leads	Package Dimensions, Body
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	


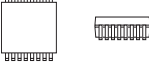
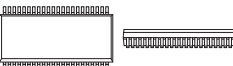
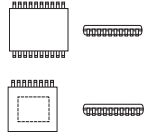

Note 1: See individual data sheet or LTC website
*Includes Leads

PACKAGING INFORMATION

PACKAGE TYPE	PACKAGE OUTLINE ⁽¹⁾	DESCRIPTION	PACKAGE CODE	PACKAGE STYLE ⁽²⁾	PACKAGE BODY mm (INCH)		LEAD PITCH mm (INCH)	QUANTITY	
					WIDTH	HEIGHT ⁽³⁾		RAIL/BULK	REEL ⁽⁴⁾
PDIP (Dual In-Line) Plastic		8-Lead PDIP	N8	N8				50	N/A
PDIP (Dual In-Line) Plastic		14-Lead PDIP	N	N14	7.62 (0.300)	3.30 (0.130)	2.54 (0.100)	25	N/A
		16-Lead PDIP		N16				25	
		18-Lead PDIP		N18				20	
		20-Lead PDIP		N20				18	
		24-Lead PDIP		N24				15	
		28-Lead PDIP		N28				14	
PDIP, Wide (0.600) Plastic		28-Lead Wide PDIP	NW	NW28	15.24 (0.600)	3.81 (0.150)	2.54 (0.100)	14	N/A
SOT-23 Plastic		3-Lead SOT-23	S3	S3 (1 pin fused) ⁽⁵⁾	1.3 (0.051)	1.12 (0.044) Max	1.92	N/A	500 & 2500
TSOT (SOT-23) (Thin Small Outline Transistor) Plastic		5-Lead TSOT	S5	S5 (1 pin fused) ⁽⁵⁾	1.6 (0.063)	1.0 (0.039) Max	0.95	N/A	500 & 2500
		6-Lead TSOT	S6	S6 (1 pin fused) ⁽⁵⁾				N/A	500 & 2500
		8-Lead TSOT	TS8	TS8 (1 pin fused) ⁽⁵⁾			0.65	N/A	500 & 2500
SOT-223 (Small Outline Transistor) Plastic		3-Lead SOT-223	ST	ST3	3.5 (0.138)	1.80 (0.071) Max	2.30 (0.0905)	78	2000
SC-70 Plastic		6-Lead SC-70	SC6	SC6 (1 or 2 pins fused) ⁽⁵⁾	1.25 (0.049)	1.0 (0.039) Max	0.65	N/A	500 & 2500
		8-Lead SC-70	SC8	SC8 (3 pins fused) ⁽⁵⁾			0.5		
SOIC, Narrow (0.150) Plastic		8-Lead SOIC	S	S8	3.81 (0.150)	1.75 (0.069) Max	1.27 (0.050)	100	2500
		14-Lead SOIC		S14				55	2500
		16-Lead SOIC		S16				50	2500
SOIC, Wide (0.300) Plastic		16-Lead SOIC	SW	SW16	7.62 (0.300)	2.62 (0.104) Max	1.27 (0.050)	47	1000
		18-Lead SOIC		SW18				40	1000
		20-Lead SOIC		SW20				38	1000
		24-Lead SOIC		SW24				32	1000
		28-Lead SOIC		SW28				27	1000

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


Amps, Refs, Filters, Comps
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PACKAGE TYPE	PACKAGE OUTLINE ⁽¹⁾	DESCRIPTION	PACKAGE CODE	PACKAGE STYLE ⁽²⁾	PACKAGE BODY mm (INCH)		LEAD PITCH mm (INCH)	QUANTITY			
					WIDTH	HEIGHT ⁽³⁾		RAIL/BULK	REEL ⁽⁴⁾		
MSOP & eMSOP⁽⁶⁾ (Micro Small Outline Package) Plastic		8- and 10-Lead MSOP & eMSOP	MS8/MS8E	MS8	3.00 (0.118)	1.10 (0.043) Max	0.65 (0.0256)	50	2500		
				MS8E							
		12- and 16-Lead MSOP & eMSOP	MS/MSE	MS10							
				MSE10							
				MS12							
				MSE12							
			MS/MSE	MS16							
				MSE16							
				MS16							
				MSE16							
SSOP (Shrink Small Outline Package) 5.3mm Wide Plastic		16-Lead SSOP	G	G16	5.3 (0.209)	2.0 (0.079) Max	0.65 (0.0256)	77	2000		
		20-Lead SSOP		G20				66	1800		
		24-Lead SSOP		G24				59	1800		
		28-Lead SSOP		G28				47	2000		
		36- and 44-Lead SSOP		G36				37	2000		
				G44	0.50 (0.0197)	37	2000				
				16-Lead SSOP	GN	GN16	3.81 (0.150)	1.75 (0.069) Max	0.635 (0.025)	100	2500
				20-Lead SSOP		GN20				55	2500
				24-Lead SSOP		GN24				55	2500
28-Lead SSOP	GN28	49	2500								
SSOP, Wide (0.300) Plastic		36-Lead SSOP	GW	GW36	7.62 (0.300)	2.64 (0.104) Max	0.80 (0.0315)	32	1000		
		44-Lead SSOP		GW44				27	1000		
TSSOP & eTSSOP⁽⁶⁾ (Thin Shrink Small Outline Package) 4.4mm Wide Plastic		14-, 16-Lead TSSOP & eTSSOP	F/FE	F14	4.4 (0.173)	1.1 (0.043) Max	0.65 (0.0256)	95	2500		
				20-Lead TSSOP & eTSSOP				FE16	1.2 (0.047) Max	74	2500
		24-Lead TSSOP & eTSSOP	FE20					1.2 (0.047) Max		0.65 (0.0256)	62
			28-, 38-Lead TSSOP & eTSSOP	FE24					0.65 (0.0256)	50	2000
FE28	0.50 (0.0196)										
FE38											
TSSOP (Thin Shrink Small Outline Package) 6.1mm Wide Plastic		48-Lead TSSOP	FW	FW48	6.1 (0.240)	1.1 (0.043) Max	0.50 (0.0197)	39	1800		

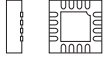
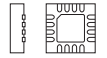
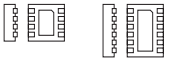
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

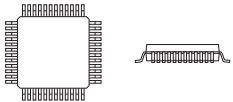

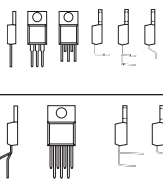
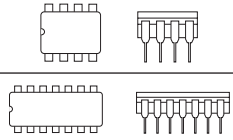
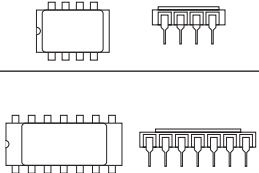
PACKAGE TYPE	PACKAGE OUTLINE ⁽¹⁾	DESCRIPTION	PACKAGE CODE	PACKAGE STYLE ⁽²⁾	PACKAGE BODY mm (INCH)		LEAD PITCH mm (INCH)	QUANTITY	
					WIDTH	HEIGHT ⁽³⁾		RAIL/BULK	REEL ⁽⁴⁾
QFN (Quad Flat No Leads) Exposed Pad Pkg. code prefix = U Plastic		16-Lead QFN	UD	UD16	3×3	0.80 (0.0315) Max	0.50	121	2500
		20-Lead QFN		UD20			0.40		
		20-Lead QFN	UDC	UDC20	3×4		0.50	91	2500
		24-Lead QFN		UDC20MA			0.40		
		24-Lead QFN	UDD	UDD24	3×5		0.50	73	2500
		16-Lead QFN	UF	UF16	4×4		0.65	91	2500
		20-Lead QFN		UF20			0.50		
		24-Lead QFN		UF24			0.40		
		28-Lead QFN		UF28			0.50		
		20-, 24- and 28-Lead QFN	UFD	UFD20	4×5		0.50	73	2500
				UFD24					
				UFD28					
		26-Lead QFN	UFE	UFE26	4×6		0.50	61	2500
		38-Lead QFN		UFE38			0.40		
		34-Lead QFN	UFF	UFF34	4×7		0.50	52	2500
		44-Lead QFN		UFF44			0.40		
		44-Lead QFN	UFH	UFH44	4×9		0.50	40	2500
		20-Lead QFN	UH	UH20	5×5		0.65	73	2500
		24-Lead QFN		UH24					
		32-Lead QFN		UH32					
		40-Lead QFN		UH40					
		28- and 36-Lead QFN	UHE	UHE28	5×6		0.50	61	2500
				UHE36					
		38-Lead QFN	UHF	UHF38	5×7		0.40	45	2500
		39- and 52-Lead QFN	UHG	UHG39 / UHG52	5×8		0.50	40	2500
		48-Lead QFN	UHH	UHH48	5×9		0.40	40	2500
		56-Lead QFN	UHH	UHH56	5×9		0.40	40	2500
		40-Lead QFN	UJ	UJ40	6×6		0.50	61	2000
		44- and 48-Lead QFN	UK	UK44 / UK48	7×7			52	2000
		52-Lead QFN	UKG	UKG52	7×8		45	2000	
64-Lead QFN	UKH	UKH64	7×9	0.40	40	2000			
56-Lead QFN	UL	UL56	8×8	0.50	45	2000			
64-Lead QFN	UP	UP64	9×9		40	2000			

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

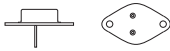


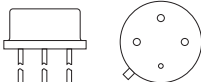
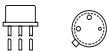
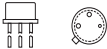
PACKAGE TYPE	PACKAGE OUTLINE ⁽¹⁾	DESCRIPTION	PACKAGE CODE	PACKAGE STYLE ⁽²⁾	PACKAGE BODY mm (INCH)		LEAD PITCH mm (INCH)	QUANTITY	
					WIDTH	HEIGHT ⁽³⁾		RAIL/BULK	REEL ⁽⁴⁾
QFN (Quad Flat No-Leads) Exposed Pad Pkg. code prefix = W Plastic		52-Lead MultiPAD QFN	WKG	WKG52	7×8	1.00 (0.0394) Max	0.50	45	2000
		64-Lead MultiPAD QFN	WP	WP64	9×9		0.50	40	2000
UTQFN (Ultra-Thin QFN) Exposed Pad Pkg. code prefix = P Plastic		16-Lead UTQFN	PD	PD16	3×3	0.60 (0.0236) Max	0.50	121	2500
		20-Lead UTQFN		PD20			0.40		
		20-Lead UTQFN	PDC	PDC20	3×4		0.50	91	2500
		24-Lead UTQFN	PF	PF24	4×4		0.50	91	2500
		28-Lead UTQFN		PF28			0.40		
DFN (Dual Flat No-Leads) Exposed Pad Pkg. code prefix = D except UE12 Plastic		3-Lead DFN	DC	DC3	2×2	0.80 (0.0315) Max	0.50	142	500 & 2500
		4-Lead DFN		DC4			0.45		
		6-Lead DFN		DC6			0.50		
		8-Lead DFN		DC8			0.45		
		6-Lead DFN	DCB	DCB6	2×3		0.50	95	500 & 2500
		8-Lead DFN		DCB8			0.45		
		8-Lead DFN	DDB	DDB8	3×2		0.50	95	500 & 2500
		10-Lead DFN		DDB10			0.50		
		12-Lead DFN		DDB12			0.45		
		8-Lead DFN	DD	DD8	3×3		0.50	121	2500
		10-Lead DFN		DD10			0.50		
		12-Lead DFN		DD12			0.45		
		12-Lead DFN	DE	DE12	4×3		0.50	91	2500
		12-Lead DFN		UE12			0.50		
		14-Lead DFN	DE	DE14	4×3		0.50	91	2500
		14-Lead DFN		DE14MA					
		16-Lead DFN	DE	DE16	4×3		0.45	91	2500
		16-Lead DFN		DE16MA					
		12-Lead DFN	DF	DF12	4×4		0.50	91	2500
		16-Lead DFN	DHC	DHC16	5×3		0.50	73	2500
16-Lead DFN	DHD	DHD16	5×4	0.50	73	2500			
16-Lead DFN	DH	DH16	5×5	0.50	73	2500			
22-Lead DFN	DJC	DJC22	6×3	0.50	61	2500			
32-Lead DFN	DKD	DKD32	7×4	0.40	52	2500			

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

PACKAGING INFORMATION

PACKAGE TYPE	PACKAGE OUTLINE ⁽¹⁾	DESCRIPTION	PACKAGE CODE	PACKAGE STYLE ⁽²⁾	PACKAGE BODY mm (INCH)		LEAD PITCH mm (INCH)	QUANTITY	
					WIDTH	HEIGHT ⁽³⁾		RAIL/BULK	REEL ⁽⁴⁾
UTDFN (Ultra-Thin DFN) Exposed Pad Pkg. code prefix = K Plastic		8-Lead UTDFN	KC	KC8	2x2	0.60 (0.0236) Max	0.45	142	500 & 2500
		10-Lead UTDFN	KD	KD10	3x3		0.50	121	2500
		14-Lead UTDFN	KE	KE14	4x3		0.50	91	2500
DD Pak Plastic		3-Lead DD	M	M3	10.16 (0.400) Body Width	4.88 (0.192)	2.54 (0.100)	50	750
		5-Lead DD	Q	Q5			1.70 (0.067)	50	750
		7-Lead DD	R	R7			1.27 (0.05)	50	750
LGA (Land Grid Array) Plastic	Various	Various	V	Various ⁽⁷⁾	Various	Various	-	Various/ Tray	N/A
LQFP / eLQFP⁽⁶⁾ (Low Profile Quad Flatpack) Plastic		48-Lead LQFP/ eLQFP	LX	LX48	7x7	1.60 (0.063) Max	0.50	250/Tray	N/A
			LXE	LXE48					
TO-92 (Similar to TO-226) Plastic		3-Lead TO-92	Z	Z3	3.55x4.75 (0.140x0.180)	4.75 (0.180)	1.27 (0.05)	100/bag	2000
TO-220 Plastic		3-Lead TO-220	T	T3	10.16 (0.400) Body Width	4.44 0.175) Body Width	2.54 (0.100)	50	N/A
		5-Lead TO-220		T5			1.70 (0.067)	50	
		7-Lead TO-220 (Formerly Y Package)	T7	T7			1.27 (0.05)	50	
CERDIP Ceramic		8-Lead CERDIP	J8	J8	7.62 (0.300)	(0.200) Max	2.54 (0.100)	50	N/A
		14-Lead CERDIP	J	J14				25	
		20-Lead CERDIP	J	J20				18	
Sidebraced DIP Ceramic		8-Lead SB	D8	D8	7.62 (0.300)	5.71 (0.225) Max	2.54 (0.100)	35	N/A
		14-Lead SB	D	D14				25	
		16-Lead SB		D16				25	
		18-Lead SB		D18				20	
		20-Lead SB		D20				20	

Amps, Refs, Filters, Comps
 Power Management
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PACKAGE TYPE	PACKAGE OUTLINE ⁽¹⁾	DESCRIPTION	PACKAGE CODE	PACKAGE STYLE ⁽²⁾	PACKAGE BODY mm (INCH)		LEAD PITCH mm (INCH)	QUANTITY	
					WIDTH	HEIGHT ⁽³⁾		RAIL/BULK	REEL ⁽⁴⁾
TO-3 Metal Can		2-Lead TO-3	K	K2	12.70 (0.500)	8.51 (0.335)	–	20/Rail	N/A
TO-3P (Similar to TO-247) Plastic		3-Lead TO-3P	P	P3	16.00 (0.630)	26.42 (1.04) Max	5.46 (0.215)	30	N/A
TO-5 Metal Can		8-Lead TO-5	H	H8	8.97 (0.353)	5.84 (0.230) Max	–	20/Tray; 200/Bag	N/A
		10-Lead TO-5		H10					
TO-39 Metal Can		3-Lead TO-39	H	H3	9.14 (0.360)	4.70 (0.185) Max	–	20/Tray; 200/Bag	N/A
		4-Lead TO-39		H4					
TO-46 Metal Can		2-Lead TO-46	H	H2	5.44 (0.214)	2.67 (0.105) Max	–	20/Tray; 500/Bag	N/A
		3-Lead TO-46		H3					
		4-Lead TO-46		H4					
TO-52 Metal Can		3-Lead TO-52	E	E3	5.44 (0.214)	3.81 (0.150) Max	–		

Package information is for general guidance only. Please refer to the specific device data sheet for detailed package information, including thermal specifications.

Notes:

1. Package outlines not to scale
2. Package style = package code + lead count. The “MA” suffix signifies multi-exposed pads
3. Unless otherwise stated, package height is nominal from the seating/reference plane to the top of the package. Consult device package drawing for details.
4. Mini-reel (where available) is 500 pieces
5. Fused pins are common to the substrate (die backside)
6. Package code suffixes ending in “E” or beginning with “e” are exposed pad packages
7. See individual data sheet for specific information

TOP MARKINGS (TOP MARK TO PART NUMBER)

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	1067	LTC1067CGN	111828	LT1118CST-2.85	11721	LT1172IS8	1222H	LT1222HS8	1304	LT1304CS8	1374IFE	LT1374IFE
019A5	LT1019AIS8-5	106750	LTC1067-50CGN	11185	LT1118CS8-5	1173	LT1173CS8	1222I	LT1222IS8	130433	LT1304CS8-3.3	1374SN	LT1374CS8-SYNC
0412	LT1004CS8-1.2	106751	LTC1067-50IGN	11185	LT1118CST-5	117312	LT1173CS8-12	1223	LT1223CS8	13045	LT1304CS8-5	1375	LT1375CS8
0412I	LT1004IS8-1.2	10671	LTC1067IGN	1120	LT1120CS8	11735	LT1173CS8-5	1224	LT1224CS8	1305	LT1305CS8	13755	LT1375CS8-5
0425	LT1004CS8-2.5	10691	LTC1069-1CS8	1120A	LT1120ACS8	1174	LTC1174CS8	1225	LT1225CS8	1306	LT1306CS8	1375HV	LT1375HVCS8
0425I	LT1004IS8-2.5	106911	LTC1069-1IS8	1120AI	LT1120AIS8	117433	LTC1174CS8-3.3	1226	LT1226CS8	1307	LT1307CS8	1375I	LT1375IS8
04AI33	LTC1504AIS8-3.3	10696	LTC1069-6CS8	1120I	LT1120IS8	117450	LTC1174CS8-5	1227	LT1227CS8	1307B	LT1307BCS8	1375I5	LT1375I5S8-5
050HVH	LTC2050HVHS8	10696I	LTC1069-6IS8	1121	LT1121CS8	1174H	LTC1174HVCS8	1228	LT1228CS8	1307BI	LT1307BIS8	1376	LT1376CS8
050HVI	LTC2050HVIS8	10697	LTC1069-7CS8	11213	LT1121CS8-3.3	1174H3	LTC1174HVCS8-3.3	1228I	LT1228IS8	1307I	LT1307IS8	13765	LT1376CS8-5
051HVH	LTC2051HVHS8	10697I	LTC1069-7IS8	11213	LT1121CST-3.3	1174H5	LTC1174HVCS8-5	1229	LT1229CS8	1308	LT1308CS8	1376HV	LT1376HVCS8
051HVI	LTC2051HVIS8	1072	LT1072CS8	11215	LT1121CS8-5	1174HI	LTC1174HVIS8	1232	LTC1232CS8	1308A	LT1308ACS8	1376I	LT1376IS8
052HVH	LTC2052HVHGN	1073	LT1073CS8	11215	LT1121CST-5	1174I	LTC1174IS8	1232I	LTC1232IS8	1308AI	LT1308AIS8	1376I5	LT1376I5S8-5
052HVI	LTC2052HVIGN	1073I	LT1073CS8-12	1121A	LT1121ACS8	1175	LT1175CS8	1241	LT1241CS8	1308B	LT1308BCS8	1377	LT1377CS8
083MP	LT3083MPDF	10735	LT1073CS8-5	1121A3	LT1121ACS8-3.3	11755	LT1175CS8-5	1241I	LT1241IS8	1308BI	LT1308BIS8	1377I	LT1377IS8
1001	LT1001CS8	1077	LT1077S8	1121A5	LT1121ACS8-5	11755	LT1175CST-5	1242	LT1242CS8	1308I	LT1308IS8	1380	LTC1380CGN
1006	LT1006S8	1077I	LT1077IS8	1121HV	LT1121HVCS8	1175I	LT1175IS8	1242I	LT1242IS8	1312	LT1312CS8	1380I	LTC1380IGN
1007	LT1007CS8	1078	LT1078S8	1121I	LT1121IS8	1175I5	LT1175I5S8-5	1243	LT1243CS8	1316	LT1316CS8	1389B4	LT1389BCS8-4.096
1007I	LT1007IS8	1078I	LT1078IS8	1121I5	LT1121I5S8	1175I5	LT1175I5S8-5	1243I	LT1243IS8	1316I	LT1316IS8	1389B5	LT1389BCS8-5
1008	LT1008S8	10905	LT1109CS8-5	1122C	LT1122CS8	1178	LT1178S8	1244	LT1244CS8	1317	LT1317CS8	1391	LTC1391CGN
1009	LT1009S8	10912	LT1109CS8-12	1122D	LT1122DS8	1187	LT1187CS8	1244I	LT1244IS8	1317B	LT1317BCS8	1391I	LTC1391IGN
1009I	LT1009IS8	1096	LTC1096CS8	1123	LT1123CST	1189	LTC1189CS8	1245	LT1245CS8	1317BI	LT1317BIS8	1392	LTC1392CS8
1011	LT1011CS8	1096A	LTC1096ACS8	11232	LT1123CS8-2.85	1190	LT1190CS8	1245I	LT1245IS8	1317I	LT1317IS8	1392I	LTC1392IS8
1011AI	LT1011AIS8	1096AI	LTC1096AIS8	1124	LT1124CS8	1191	LT1191CS8	1246	LT1246CS8	1326	LTC1326CS8	1393	LTC1393CGN
1011I	LT1011IS8	1096I	LTC1096IS8	1124AI	LT1124AIS8	1192	LT1192CS8	1247	LT1247CS8	132625	LTC1326CS8-2.5	1393I	LTC1393IGN
1012	LT1012S8	1096L	LTC1096LCS8	1124I	LT1124IS8	1193	LT1193CS8	1249	LT1249CS8	1326I	LTC1326IS8	1394	LT1394CS8
1012A	LT1012ACS8	1097	LTC1097S8	1124I5	LT1124I5S8	1193I	LT1193IS8	1249I	LT1249IS8	1328	LT1328CS8	1394I	LT1394IS8
1012AI	LT1012AIS8	1098	LTC1098CS8	1128	LT1128CS8	1194	LT1194CS8	1250	LTC1250CS8	1328I	LT1328IS8	1395	LT1395CS8
1012I	LT1012IS8	1098A	LTC1098ACS8	1129	LT1129CS8	1195	LT1195CS8	1252	LT1252CS8	1329I	LTC1329CS8-10	1395I	LT1395IS8
1013	LT1013DS8	1098AI	LTC1098AIS8	11293	LT1129CS8-3.3	11961A	LTC1196-1ACS8	1253	LT1253CS8	13295	LTC1329CS8-50	1396	LT1396CS8
1013I	LT1013IS8	1098AI	LTC1098AIS8	11293	LT1129CST-3.3	11961B	LTC1196-1BCS8	1255	LTC1255CS8	1329A5	LTC1329ACS8-50	1397	LT1397CDE
1016	LT1016CS8	1098I	LTC1098IS8	11295	LT1129CS8-5	11962A	LTC1196-2ACS8	1255I	LTC1255IS8	1329I5	LTC1329ACS8-50	1397I	LT1397IGN
1016I	LT1016IS8	1098L	LTC1098LCS8	11295	LT1129CST-5	11962B	LTC1196-2BCS8	1257	LTC1257CS8	1351	LT1351CS8	1397	LT1397HDE
1017	LT1017CS8	1098LI	LTC1098LIS8	1129I	LT1129IS8	1197	LTC1197CS8	1257I	LTC1257IS8	1352	LT1352CS8	1397I	LT1397IGN
1017I	LT1017IS8	11012	LT1110CS8-12	1129I3	LT1129IS8-3.3	1197I	LTC1197IS8	1258	LTC1258CS8	1352I	LT1352IS8	1399	LT1399CGN
1018	LT1018CS8	1107	LT1107CS8	1129I5	LT1129IS8-5	1197L	LTC1197LCS8	12582	LTC1258CS8-2.5	1354	LT1354CS8	1399I	LT1399IGN
1018I	LT1018IS8	1107I2	LT1107CS8-12	1144	LTC1144CS8	1197LI	LTC1197LIS8	12583	LTC1258CS8-3	1354I	LT1354IS8	1400	LTC1400CS8
1019A5	LT1019ACS8-5	11075	LT1107CS8-5	1144I	LTC1144IS8	11981A	LTC1198-1ACS8	12584I	LTC1258CS8-4.1	1355	LT1355CS8	1400I	LTC1400IS8
1025	LT1025CS8	1107I	LT1107IS8	11473	LTC1147CS8-3.3	11981B	LTC1198-1BCS8	12585	LTC1258CS8-5	1355I	LT1355IS8	1401	LTC1401CS8
1026	LT1026CS8	1108	LT1108CS8	11475	LTC1147CS8-5	11982A	LTC1198-2ACS8	1261	LTC1261CS8	1355MP	LT1355MPS8	1401I	LTC1401IS8
1026I	LT1026IS8	1108I	LT1108IS8	11473I3	LTC1147HVCS8-3.3	11982B	LTC1198-2BCS8	12614	LTC1261CS8-4	1357	LT1357CS8	1402	LTC1402CGN
1027C5	LT1027CS8-5	11085	LT1108CS8-5	11473I5	LTC1147IS8-3.3	1199	LTC1199CS8	126145	LTC1261CS8-4.5	1358	LT1358CS8	1402I	LTC1402IGN
1027D5	LT1027CS8-5	1109	LT1109CS8	11475I	LTC1147IS8-5	1199I	LTC1199IS8	1261I	LTC1261CS8-4.5	1358I	LT1358IS8	1404	LTC1404CS8
1027E5	LT1027CS8-5	1109A	LT1109ACS8	1147L	LTC1147LCS8	1199L	LTC1199LCS8	1261L	LTC1261LCS8	1360	LT1360CS8	1404I	LTC1404IS8
1028	LT1028CS8	1109AI	LT1109ACS8-12	1147L3	LTC1147LCS8-3.3	1199LI	LTC1199LIS8	1261L4	LTC1261LCS8-4	1361	LT1361CS8	1408	LTC1408CUH
1034I12	LT1034IS8-1.2	1109A5	LT1109ACS8-5	1147LI	LTC1147LIS8	1203	LT1203CS8	1262	LTC1262CS8	1363	LT1363CS8	1408	LTC1408IUH
1037	LT1037CS8	1110	LT1110CS8	1150	LTC1150CS8	1206	LT1206CS8	1262I	LTC1262IS8	1364	LT1364CS8	1408I2	LTC1408IUH-12
1037I	LT1037IS8	11105	LT1110CS8-5	1152	LTC1152CS8	1208	LT1208CS8	1263	LTC1263CS8	1366	LTC1366CS8	1408I2	LTC1408IUH-12
1041	LTC1041CS8	1111	LT1111CS8	1152I	LTC1152IS8	1211	LT1211CS8	1263I	LTC1263IS8	1366I	LT1366IS8	1413	LT1413S8
1044	LTC1044CS8	11111	LT1111CS8-12	1153	LTC1153CS8	1211A	LT1211ACS8	1263I	LTC1263IS8	1366I	LT1366IS8	1413	LT1413S8
1044/R	LTC1044CS8/R	11115	LT1111CS8-5	1153I	LTC1153IS8	1211AI	LT1211AIS8	1285	LTC1285CS8	1368	LT1368CS8	1417	LTC1417CGN
1044A	LTC1044ACS8	11115	LT1111CS8-5	1153I	LTC1153IS8	1211AI	LT1211AIS8	12853	LTC1285CS-3.0	1372	LT1372CGN	1417A	LTC1417ACGN
1044AI	LTC1044ACS8	1111I	LT1111IS8	1154	LTC1154CS8	1211I	LT1211IS8	1285I	LTC1285IS8	1372	LT1372CS8	1417AI	LTC1417AIGN
1046	LTC1046CS8	1112	LT1112CS8	1154H	LTC1154HS8	1213	LT1213CS8	1286	LTC1286CS8	1372H	LT1372HVCGN	1417I	LTC1417IGN
1046I	LTC1046IS8	1112	LT1112S8	1155	LTC1155CS8	1215	LT1215CS8	1286I	LTC1286IS8	1372HI	LT1372HVCS8	1422	LTC1422CS8
1049	LTC1049CS8	1112I	LT1112IS8	1155I	LTC1155IS8	1217	LT1217CS8	1288	LTC1288CS8	1372HI	LT1372HVIGN	1422I	LTC1422IS8
1050	LTC1050CS8	1112MP	LT1112MPS8	1157	LTC1157CS8	1218	LT1218CS8	1288I	LTC1288IS8	1372HI	LT1372HVIS8	14245	LT1424CS8-5
1050H	LTC1050HS8	1113	LT1113CS8	1163	LTC1163CS8	1218L	LT1218LCS8	1298	LTC1298CS8	1372I	LT1372IGN	14249	LT1424CS8-9
1054	LT1054CS8	1116	LTC1163CS8	1165	LTC1165CS8	1219	LTC1219CS8	1298I	LTC1298IS8	1372I	LT1372IGN	1424I5	LT1424IS8-5
1054A	LT1054ACS8	1117	LT1117CST	1166	LTC1166CS8	1219L	LTC1219LCS8	129I3	LT129I3CS8	1373	LT1373CS8	1424I9	LT1424IS8-9
1054I	LT1054IS8	11172	LT1117CST-2.85	1167	LT1167CS8	121AHV	LT1121AHVCS8	129I5	LT129I5CS8	1373H	LT1373HVCS8	1426	LTC1426CS8
1054L	LT1054LCS8	11173	LT1117CST-3.3	1167A	LT1167ACS8	121AI	LT1121ACS8	129MP3	LT129MP3CS8	1373HI	LT1373HVIS8	1426I	LTC1426IS8
1055	LT1055S8	11175	LT1117CST-5	1167AI	LT1167AIS8	121AI3	LT1121AIS8-3.3	1300	LT1300CS8	1373I	LT1373IS8	142750	LTC1427CS8-50
1056	LT1056S8	1117I	LT1117IST	1167I	LT1167IS8	121AI5	LT1121AIS8-5	1301	LT1301CS8	1374	LT1374CS8	142850	LTC1428CS8-50
1057	LT1057S8	1117I2	LT1117IST-2.85	1168	LT1168CS8	121HVI	LT1121HVIS8	1301I	LT1301IS8	13745	LT1374CS8-5	14294	LTC1429CS8-4
1057I	LT1057IS8	1117I3	LT1117IST-3.3	1168A	LT1168ACS8	1213	LT1121IS8-3.3	1302	LT1302CS8	1374CFE	LT1374CFE	1430	LTC1430CS8
		1117I5	LT1117IST-5	1168AI	LT1168AIS8	1213I	LT1121IS8-3.3	13025	LT1302CS8-5	1374HV	LT1374HVCS8	1430A	LTC1430ACGN
		1118	LT1118CS8	1168I	LT1168IS8	1215	LT1121IS8-5	1303	LT1303CS8	1374HVCFE	LT1374HVCFE	1430A	LTC1430ACGS8
		111825	LT1118CS8-2.5	1169	LT1169CS8	1220	LT1220CS8	13035	LT1303CS8-5	1374HVIFE	LT1374HVIFE	1430AI	LTC1430AIGN
		111825	LT1118CST-2.5	1172	LT1172CS8	1221	LT1221CS8	1303I	LT1303IS8	1374I	LT1374IS8	1430I	LTC1430IS8
		111828	LT1118CS8-2.85	1172HI	LT1172HVIS8	1222	LT1222CS8	1303I5	LT1303I5S8-5	1374I5	LT1374I5S8-5	1431	LTC1431CS8

TOP MARKINGS (TOP MARK TO PART NUMBER)

14311	LT1431IS8	1470BE	LTC1470BES8	151051	LT1510-SIGN	156916	LTC1569IS8-6	1634B1	LT1634BCS8-1.25	16731	LT1673IS8	1735	LTC1735CGN
1433	LTC1433CGN	1470E	LTC1470ES8	15101	LT1510IGN	156917	LTC1569IS8-7	1634B2	LT1634BCS8-2.5	1675	LT1675CGN	17351	LTC1735CGN-1
14331	LTC1433IGN	1473	LTC1473CGN	15101	LT1510IS8	15715	LT1571EGN-5	1634B4	LT1634BCS8-4.096	16751	LT1675CS8-1	1735E	LTC1735IGN
1440	LTC1440CS8	14731	LTC14731IGN	1512	LT1512CGN	1573	LT1573CS8	1634B5	LT1634BCS8-5	167511	LT1675IS8-1	17351	LTC1735IGN
14401	LTC1440IS8	1473L	LTC1473LIGN	1512	LT1512CS8	157325	LT1573CS8-2.5	1635	LT1635CS8	1676	LT1676CS8	173511	LTC1735IGN-1
1441	LTC1441CS8	1473LI	LTC1473LIIGN	15121	LT15121IGN	157328	LT1573CS8-2.8	16351	LT1635IS8	16761	LT1676IS8	1737	LTC1737CGN
14411	LTC1441IS8	1474	LTC1474CS8	15121	LT15121S8	157333	LT1573CS8-3.3	1636	LT1636CS8	1677	LT1677CS8	17371	LT1737IGN
1442	LTC1442CS8	147433	LTC1474CS8-3.3	15143	LTC1514CS8-3	15731	LT1573IS8	1636H	LT1636HS8	16771	LT1677IS8	1739	LT1739CUE
14421	LTC1442IS8	14745	LTC1474CS8-5	151433	LTC1514CS8-3.3	1575	LT1575CS8	1636I	LT1636IS8	1678	LT1678CS8	17391	LT1739UE
1443	LTC1443CDHD	14741	LTC1474IS8	15145	LTC1514CS8-5	157515	LT1575CS8-1.5	1637	LT1637CS8	16781	LT1678IS8	1756	LTC1756IGN
1443	LTC1443DHD	147415	LTC1474IS8-5	151413	LTC1514IS8-3	157528	LT1575CS8-2.8	1637H	LT1637HS8	1682	LTC1682CS8	17561	LTC1756IGN
1444	LTC1444CDHD	1475	LTC1475CS8	151415	LTC1514IS8-5	157533	LT1575CS8-3.3	1637I	LT1637IS8	168233	LTC1682CS8-3.3	1763	LT1763CDE
1444	LTC1444DHD	147533	LTC1475CS8-3.3	1515	LTC1515CS8	157535	LT1575CS8-3.5	1637MP	LT1637MPS8	16825	LTC1682CS8-5	1763	LT1763CS8
1445	LTC1445CDHD	14755	LTC1475CS8-5	151535	LTC1515CS8-3/5	15755	LT1575CS8-5	1638	LT1638CS8	16821	LTC1682IS8-5	1763	LT1763IDE
1445	LTC1445DHD	14751	LTC1475IS8	15151	LTC1515IS8	1576	LT1576CS8	1638H	LT1638HS8	168215	LTC1682IS8-5	1763	LT1763IS8
1446	LTC1446CS8	1477	LTC1477CS8	1516	LTC1516CS8	15765	LT1576CS8-5	1638I	LT1638IS8	1685	LTC1685CS8	176315	LT1763CS8-1.5
14461	LTC1446IS8	1480	LTC1480CS8	15161	LTC1516IS8	15761	LT1576IS8	16401	LT1640-1CS8	16851	LTC1685IS8	176315	LT1763IS8-1.5
1446L	LTC1446LCS8	14801	LTC1480IS8	1521	LT1521CS8	157615	LT1576IS8-5	16402	LT1640-2CS8	1686	LTC1686CS8	176318	LT1763CS8-1.8
1446LI	LTC1446LIS8	1481	LTC1481CS8	15213	LT1521CS8-3	15765N	LT1576CS8-SYNC	1640AH	LT1640AHC8	16861	LTC1686IS8	176318	LT1763IS8-1.8
1448	LTC1448CS8	14811	LTC1481IS8	15213	LT1521CST-3	1578	LT1578CS8	1640AL	LT1640ALCS8	1690	LTC1690CS8	176325	LT1763CS8-2.5
14481	LTC1448IS8	1482	LTC1482CS8	152133	LT1521CS8-3.3	157825	LT1578CS8-2.5	1640H	LT1640HCS8	16901	LTC1690HCS8	176325	LT1763IS8-2.5
1451	LTC1451CS8	14821	LTC1482IS8	152133	LT1521CST-3.3	15781	LT1578IS8	1640HI	LT1640HIS8	16931	LTC1693-1CS8	17633	LT1763CDE-3
14511	LTC1451IS8	1483	LTC1483CS8	15215	LT1521CS8-5	1579	LT1579CGN	1640HV	LT1640HVC8	169311	LTC1693-1IS8	17633	LT1763CS8-3
1452	LTC1452CDHD	14831	LTC1483IS8	15215	LT1521CST-5	1579	LT1579CS8	1640L	LT1640LCS8	16932	LTC1693-2CS8	17633	LT1763IDE-3
14521	LTC1452IS8	1484	LTC1484CS8	15211	LT1521IS8	15793	LT1579CGN-3	1640LI	LT1640LIS8	169321	LTC1693-2IS8	17633	LT1763IS8-3
1453	LTC1453CS8	14841	LTC1484IS8	152113	LT1521IS8-3	15793	LT1579CS8-3	1640LV	LT1640LVC8	1698	LTC1698CGN	176333	LT1763CS8-3.3
14531	LTC1453IS8	1485	LTC1485CS8	152113	LT1521IST-3	157933	LT1579CGN-3.3	1641	LT1641CS8	16981	LTC1698IGN	176333	LT1763IS8-3.3
1456	LTC1456CS8	14851	LTC1485IS8	1521133	LT1521IS8-3.3	157933	LT1579CS8-3.3	16411	LT1641-1CS8	169980	LTC1699EGN-80	17635	LT1763CDE-5
14561	LTC1456IS8	1487	LTC1487CS8	1521133	LT1521IST-3.3	15795	LT1579CGN-5	164111	LT1641-1IS8	169981	LTC1699EGN-81	17635	LT1763CS8-5
1457	LT1457S8	14871	LTC1487IS8	152115	LT1521IS8-5	15795	LT1579CS8-5	16412	LT1641-2CS8	169982	LTC1699EGN-82	17635	LT1763IDE-5
1460A1	LT1460ACS8-10	1490	LT1490CS8	152115	LT1521IST-5	15791	LT1579IGN	164121	LT1641-2IS8	1701	LTC1701CS8	17635	LT1763IS8-5
1460A2	LT1460ACS8-2.5	1490A	LT1490ACS8	1522	LTC1522CS8	157913	LT1579IGN-3	16411	LT1641IS8	1704	LTC1704EGN	1763MP	LT1763MPS8
1460A5	LT1460ACS8-5	1490AH	LT1490AHS8	15221	LTC1522IS8	157915	LT1579IGN-5	1642	LTC1642CGN	1704B	LT1704BEGN	1764A	LT1764A
1460D1	LT1460DCS8-10	1490AI	LT1490AIS8	1530	LTC1530CS8	1595A	LT1595ACS8	1642A	LTC1642ACGN	170619	LTC1706CS8-19	1764A	LT1764A
1460D2	LT1460DCS8-2.5	14901	LT1490IS8	153019	LTC1530CS8-1.9	1595AI	LT1595AIS8	1642AI	LTC1642AIGN	1707	LTC1707CS8	1764A	LT1764A
1460D5	LT1460DCS8-5	1491A	LT1491ACDHC	153025	LTC1530CS8-2.5	1595B	LTC1595BCS8	1642I	LT1642IGN	17071	LTC1707IS8	1764A	LT1764A
1461A3	LT1461ACS8-3	1491A	LT1491AIDHC	153028	LTC1530CS8-2.8	1595BI	LTC1595BIS8	1643AH	LTC1643AHC8	1710	LTC1710CS8	1764A	LT1764A
1461A4	LT1461ACS8-4	1492	LT1492CS8	153033	LTC1530CS8-3.3	1595C	LTC1595CCS8	1643AL	LTC1643ALCGN	17101	LTC1710IS8	1764E	LT1764E
1461A5	LT1461ACS8-5	1494	LT1494CS8	15301	LTC1530IS8	1595CI	LTC1595CIS8	1643H	LTC1643HCGN	1712	LT1712CGN	1764E	LT1764E
1461B3	LT1461BCS8-3	1494H	LT1494HS8	1536	LTC1536CS8	15335	LTC1515IS8-3.3/5	1643HI	LTC1643HIGN	17121	LT1712IGN	1764E	LT1764E
1461B4	LT1461BCS8-4	14941	LT1494IS8	15361	LTC1536IS8	1610	LT1610CS8	1643L	LTC1643LCS8	1714	LT1714CGN	1764E	LT1764E
1461B5	LT1461BCS8-5	1495	LT1495CS8	1540	LTC1540CS8	16101	LT1610IS8	1643L1	LTC1643L-1CGN	17141	LT1714IGN	1764E	LT1764E
1461C3	LT1461CCS8-3	1495H	LT1495HS8	15401	LTC1540IS8	1612	LT1612ES8	1643L1	LTC1643LIGN	1719	LT1719CS8	1765	LT1765ES8
1461C4	LT1461CCS8-4	14951	LT1495IS8	1541	LTC1541CS8	1614	LT1614CS8	1645	LTC1645CS8	17191	LT1719IS8	1765E	LT1765E
1461C5	LT1461CCS8-5	1497	LT1497CS8	15411	LTC1541IS8	16141	LT1614IS8	16451	LTC1645IS8	1720	LT1720CS8	1765E	LT1765E
1462	LT1462CS8	1498	LT1498CS8	1542	LTC1542CS8	1618	LT1618ES8	1646	LTC1646CGN	17201	LT1720IS8	1765E	LT1765E
1462A	LT1462ACS8	14981	LT1498IS8	15421	LTC1542IS8	1619	LT1619ES8	16461	LTC1646IGN	1721	LT1721CGN	1765E	LT1765E
1464	LT1464CS8	1498MP	LT1498MPS8	1550	LTC1550CGN	16191	LT1619IS8	16471	LTC1647-1CS8	17211	LT1721IGN	1765E	LT1765E
1464A	LT1464ACS8	1501	LT1501CS8	155041	LTC1550CS8-4.1	1620	LT1620CGN	164711	LT1647-1IS8	1722	LT1722CS8	1766	LT1766CS8
1466L	LT1466LCS8	150133	LT1501CS8-3.3	15501	LTC1550IGN	1620	LT1620CS8	16472	LTC1647-2CS8	17221	LT1722IS8	1766	LT1766EGN
1468	LT1468CS8	15015	LT1501CS8-5	1550L	LTC1550LIGN	16201	LT1620IGN	164721	LT1647-2IS8	1723	LT1723CS8	17665	LT1766EGN-5
14682	LT1468CS8-2	15011	LT1501IS8	1550L	LTC1550LCS8	16201	LT1620IS8	16473	LTC1647-3CGN	17231	LT1723IS8	1766E	LT1766E
14682	LT1468IS8-2	150113	LT1501IS8-3.3	1550L2	LTC1550LCS8-2	1621	LT1621CGN	164731	LTC1647-3IGN	1725	LT1725CGN	1766E	LT1766E
14684	LT1468CS8-4	150115	LT1501IS8-5	1550L1	LTC1550LIGN	16211	LT1621IGN	1654	LTC1654CGN	17251	LT1725IGN	1766E	LT1766E
14684	LT1468IS8-4	150233	LTC1502CS8-3.3	155141	LTC1551CS8-4.1	1622	LTC1622CS8	16541	LTC1654IGN	172625	LTC1726ES8-2.5	1766E	LT1766E
14681	LT1468IS8	150318	LTC1503CS8-1.8	1551L	LTC1551LCS8	16221	LTC1622IGN	1655	LTC1655CS8	17265	LTC1726ES8-5	17661	LT1766IGN
1469	LT1469ACDF	15032	LTC1503CS8-2	1551L2	LTC1551LCS8-2	1623	LTC1623CS8	16551	LTC1655IS8	172615	LTC1726IS8-5	17661	LT1766IS8
1469	LT1469AIDF	150312	LTC1503IS8-2	1555	LTC1555CGN	16231	LTC1623IS8	1655L	LTC1655LCS8	172725	LTC1727ES8-2.5	176615	LT1766IS8-5
1469	LT1469CDF	1504	LTC1504CS8	15551	LTC1555IGN	1624	LTC1624CS8	1658	LTC1658IS8	17275	LTC1727ES8-5	17661E	LT1766IS8
1469	LT1469CS8	150433	LTC1504CS8-3.3	1555L	LTC1555LEGN	16241	LTC1624IS8	16581	LTC1658CS8	172715	LTC1727IS8-5	17661E	LT1766IS8
1469	LT1469IDF	1504A	LTC1504ACS8	15601	LTC1560-1CS8	1625	LTC1625CGN	16581	LTC1658IS8	172941	LTC1729CS8-4.1	17661E	LT1766IS8
14692	LT1469ACDF-2	1504AI	LTC1504AIS8	156011	LTC1560-1IS8	16251	LTC1625IGN	1659	LTC1659CS8	172942	LTC1729CS8-4.2	1767	LT1767ES8
14692	LT1469AIDF-2	15041	LTC1504IS8	15632	LTC1563-2CGN	1627	LTC1627CS8	16591	LTC1659IS8	172982	LTC1729CS8-8.2	1768	LT1768CGN
14692	LT1469CDF-2	150413	LTC1504IS8-3.3	156321	LTC1563-2IGN	16271	LT1627IS8	1660	LTC1660CGN	172984	LTC1729CS8-8.4	17681	LT1768IGN
14692	LT1469CS8-2	1506	LTC1506CS8	15633	LTC1563-3CGN	1628	LTC1628CUH	16601	LTC1660IGN	17304	LTC1730EGN-4	1770	LTC1770CS8
14692	LT1469IDF-2	150633	LTC1506CS8-3.3	156331	LTC1563-3IGN	16281	LTC1628IUIH	1664	LTC1664CGN	173041	LTC1730ES8-4.1	17701	LTC1770IS8
14692	LT1469IS8-2	15061	LT1506IS8	156531	LTC1565-31CS8	1630	LT1630CS8	16641	LTC1664IGN	173042	LTC1730ES8-4.2	1771	LTC1771ES8
14694	LT1469CDF-4	1507	LT1507CS8	156573	LTC1565-73CS8	16301	LT1630IS8	1665	LTC1665CGN	173082	LTC1730ES8-8.2	17711	LTC1771IS8
14694	LT1469CS8-4	15073	LT1507CS8-3.3	15661	LTC1566-1CS8	1632	LT1632CS8	16651	LTC1665IGN	173084	LTC1730ES8-8.4	1772	LTC1772CS8
14694	LT1469IDF-4	15071	LT1507IS8	156611	LTC1566-1IS8	16321	LT1632IS8	1671	LT1671CS8	173141	LTC1731ES8-4.1	1775	LTC1775CGN
14694	LT1469IS8-4	150713	LT1507IS8-3.3	1568	LT1568CGN	1634A1	LT1634ACS8-1.25	16711	LT1671IS8	173142	LTC1731ES8-4.2	17751	LTC1775IGN
14691	LT1469IS8	1510	LT1510CGN	15681	LT1568IGN	1634A2	LT1634ACS8-2.5	1672	LT1672CS8	173184	LTC1731ES8-8.4	1776	LT1776CS8
1470	LTC1470CS8	1510	LT1510CS8	15696	LTC1569CS8-6	1634A4	LT1634ACS8-4.096	16721	LT1672IS8	1733	LTC1733CS8	17761	LT1776IS8

TOP MARKINGS (TOP MARK TO PART NUMBER)

- Amps, Refs, Filters, Comps
- Power Management
- Data Conversion
- Interface
- RF/Wireless
- Space, Military, Harsh Envir.
- Reference Material

1778	LTC1778EGN	1818	LT1818CS8	1940EFE	LT1940EFE	2050	LTC2050CS8	2305	LTC2305CDE	2461	LTC2461CMS	26145	LTC1261LCS8-4.5
17781	LTC1778EGN-1	1818I	LT1818IS8	1940LEFE	LT1940LEFE	2050H	LTC2050HS8	2305	LTC2305CMS	2461	LTC2461IMS	2620	LTC2620CGN
1778A	LTC1778AIGN	1819	LT1819CS8	1942	LT1942EUF	2050HV	LTC2050HVC88	2305	LTC2305HMS	2462	LTC2462CMS	2620	LTC2620CUFD
1778H	LTC1778HGN	1819I	LT1819IS8	1945	LT1945CS8-4.5	2050I	LTC2050IS8	2305	LTC2305IDE	2462	LTC2462IMS	2620	LTC2620IUF
1778I	LTC1778IGN	1840	LTC1840CGN	1946	LT1946EUF	2051	LTC2051CS8	2305	LTC2305IMS	2463	LTC2463CMS	2620I	LTC2620IGN
1779	LTC1779ES8	1840I	LTC1840IGN	1946A	LT1946AEUF	2051H	LTC2051HS8	2306	LTC2306CUF	2463	LTC2463IMS	2624	LTC2624CGN
1785	LT1785CS8	1841	LTC1841CS8	1949	LT1949ES8	2051HV	LTC2051HVC88	2306	LTC2306IUF	2466	LTC2466CDE	2624I	LTC2624CGN-1
1785A	LT1785ACS8	1841I	LTC1841IS8	1949I	LT1949IS8	2051I	LTC2051IS8	2308	LTC2308CUF	2486	LTC2486IDE	2624I	LTC2624IGN
1785AH	LT1785AHS8	1842	LTC1842CS8	1950	LT1950EEN	2052	LTC2052CGN	2308	LTC2308IUF	2487	LTC2487CDE	2624I	LTC2624IGN-1
1785AI	LT1785AIS8	1842I	LTC1842IS8	1950I	LT1950IGN	2052H	LTC2052HGN	2309	LTC2309CUF	2487	LTC2487IDE	2625	LTC2625CGN
1785H	LT1785HS8	1843	LTC1843CS8	1952	LT1952EEN	2052HV	LTC2052HVC88	2309	LTC2309IUF	2488	LTC2488CDE	2625I	LTC2625CGN-1
1785I	LT1785IS8	1843I	LTC1843IS8	1952I	LT1952EEN-1	2052I	LTC2052IGN	234	LM234S8	2488	LTC2488IDE	2625I	LTC2625IGN
1787	LT1787CS8	184433	LTC1844ES8-3.3	1952I	LT1952IGN	2078	LT2078CS8	235112	LTC2351CUH-12	2489	LTC2489CDE	2625I	LTC2625IGN-1
1787H	LT1787HS8	1860	LTC1860CS8	1952I1	LT1952IGN-1	2078A	LT2078ACS8	235112	LTC2351HUH-12	2489	LTC2489IDE	2627	LTC2627CDE
1787HV	LT1787HVC88	1860I	LTC1860IS8	1955	LTC1955EUF	2078AI	LT2078AIS8	235112	LTC2351IUF-12	2490	LTC2490CS8	2627	LTC2627IDE
1787I	LT1787IS8	1860L	LTC1860LCS8	1955	LT1955IUF	2078B	LT2078BIS8	235114	LTC2351CUH-14	2490I	LTC2490IS8	2627I	LTC2627IDE-1
17891	LT1789CGN-1	1860LI	LTC1860LIS8	1956	LT1956EEN	2105	LT2105DCS8-5	235114	LTC2351HUH-14	2492	LTC2492CDE	2627I	LTC2627IDE-1
17891I	LT1789CS8-1	1861	LTC1861CS8	19565	LT1956EEN-5	2107	LT2107DCS8-7	235114	LTC2351IUF-14	2492	LTC2492IDE	2629	LTC2629CGN
17891O	LT1789CS8-1O	1861I	LTC1861IS8	1956EFE	LT1956EFE-5	2110	LT2110DCS8-10	236AC1	LTC236ACS8-10	2493	LT2493CDE	2629I	LTC2629CGN-1
1789H1	LT1789HS8-1	1861L1	LTC1861LCS8	1956FEF-5	LT1956FEF-5	2178	LT2178CS8	236AC5	LT1236ACS8-5	2493	LTC2493IDE	2629I	LTC2629IGN
1789I1	LT1789IGN-1	1863	LTC1863CGN	1956I	LT1956IGN	2178A	LT2178ACS8	236A15	LT1236AIS8-5	2494	LTC2494CUHF	2629I	LTC2629IGN-1
1789I1I	LT1789IS8-1	1863I	LTC1863IGN	1956IFE	LT1956IFE-5	2178AI	LT2178AIS8	236A15	LT1236AIS8-5	2494	LTC2494IUF	2629I	LTC2629IGN-1
1792	LT1792CS8	1863L	LTC1863LCS8	1956IFE-5	LT1956IFE-5	2181	LT2181CS8	236BC1	LT1236BCS8-5	2495	LTC2495CUHF	264116	LTC2641CS8-16
1792A	LT1792ACS8	1863LI	LTC1863LIGN	1959	LT1959CS8	21AHSV	LT1121AHVIS8	236BC5	LT1236BCS8-5	2495	LTC2495IUF	275112	LTC2751IUFH-12
1792AI	LT1792AIS8	1864	LTC1864CS8	1959I	LT1959IS8	2201T	LTC2201PF-1	236B1I	LT1236BIS8-10	2496	LTC2496CUHF	275112	LTC2751IUFH-12
1792I	LT1792IS8	1864A	LTC1864ACS8	1960	LTC1960CUHF	2201T	LTC2201PF-1	236B15	LT1236BIS8-5	2496	LTC2496IUF	275114	LTC2751IUFH-14
1793	LT1793CS8	1864AI	LTC1864AIS8	1961	LT1961ES8	2225	LTC2225CUH	236CC1	LT1236CCS8-10	2497	LTC2497CUHF	275114	LTC2751IUFH-14
1793A	LT1793ACS8	1864I	LTC1864IS8	1961	LT1961ES8	2225	LTC2225IUF	236CC5	LT1236CCS8-5	2497	LTC2497IUF	275116	LTC2751ACUHF-16
1793AI	LT1793AIS8	1864L	LTC1864LCS8	1963	LT1963ES8	2226	LTC2226CUH	236C11	LT1236CIS8-10	2498	LTC2498CUHF	275116	LTC2751IUFH-16
1793I	LT1793IS8	1864LI	LTC1864LIS8	1963I	LT1963EST	2226	LTC2226IUF	236C15	LT1236CIS8-5	2498	LTC2498IUF	275116	LTC2751IUFH-16
1794	LT1794CS8	1864L1	LTC1864LCS8	196315	LT1963ES8-1.5	2226H	LTC2226HCUH	2400	LTC2400CS8	2499	LTC2499CUHF	275116	LTC2751IUFH-16
1794A	LT1794ACS8	1864LI	LTC1864LIS8	196315	LT1963EST-1.5	2227	LTC2227CUH	2400I	LTC2400IS8	2499	LTC2499IUF	275116	LTC2751IUFH-16
1796	LT1796CS8	1865	LTC1865CS8	196318	LT1963ES8-1.8	2227	LTC2227IUF	2400HVH	LTC6240HVHS8	253AJ	LTC4253ACUF-ADJ	275116	LTC2751IUFH-16
1796I	LT1796IS8	1865A	LTC1865ACS8	196318	LT1963EST-1.8	2228	LTC2228CUH	240HVI	LTC6240HVIS8	253AJ	LTC4253AIUF-ADJ	275118	LTC2751ACUHF-18
1798	LTC1798CS8	1865AI	LTC1865AIS8	196325	LT1963ES8-2.5	2228	LTC2228IUF	2410	LTC2410CGN	2600	LTC2600CGN	275118	LTC2751IUFH-18
179825	LTC1798CS8-2.5	1865I	LTC1865IS8	196325	LT1963EST-2.5	2229	LTC2229CUH	2410I	LTC2410IGN	2600	LTC2600CUFD	275118	LTC2751BCUHF-18
17983	LTC1798CS8-3	1865LA	LTC1865LCS8	196333	LT1963ES8-3.3	2229	LTC2229IUF	2412	LTC2412CGN	2600	LTC2600IUF	275118	LTC2751BIUHF-18
179841	LTC1798CS8-4.1	1865LI	LTC1865LCS8	196333	LT1963EST-3.3	2229I1	LTC2229CUH-11	2412I	LTC2412IGN	2600I	LTC2600IGN	2801	LTC2801CDE
17985	LTC1798CS8-5	1867	LTC1867ACGN	1963A	LT1963AES8	2236	LTC2236CUH	2413	LTC2413CGN	2604	LTC2604CGN	2801	LTC2801IDE
1798I	LTC1798IS8	1867I	LTC1867ACS8	1963AI	LT1963AES8	2236	LTC2236IUF	2413I	LTC2413IGN	2604I	LTC2604CGN-1	2802	LTC2802CDE
17983I	LTC1798IS8-3	1867L	LTC1867LCS8	1963AEFE	LT1963AEFE	2237	LTC2237CUH	2415	LTC2415CGN	2604I	LTC2604IGN-1	2802	LTC2802IDE
17985I	LTC1798IS8-5	1867L1	LTC1867LCS8	1963AEFE15	LT1963AEFE-1.5	2237	LTC2237IUF	2415I	LTC2415-1CGN	2604I1	LTC2604IGN-1	2803	LTC2803CDE
1800	LT1800CS8	1867L	LTC1867LCS8	1963AEFE15	LT1963AEFE-1.5	2238	LTC2238CUH	2415I1	LTC2415-1IGN	2605	LTC2605CGN	2803	LTC2803IDHC
1800I	LT1800IS8	1867LI	LTC1867LCS8	1963AEFE25	LT1963AEFE-2.5	2238	LTC2238IUF	2415I1	LTC2415IGN	2605I	LTC2605CGN-1	2803I	LTC2803CGN-1
1801	LT1801CS8	1867L1	LTC1867LCS8	1963AEFE33	LT1963AEFE-3.3	2239	LTC2239CUH	241HVH	LTC6241HVHS8	2605I	LTC2605IGN	2803I1	LTC2803IGN-1
1801I	LT1801IS8	1867L1	LTC1867LCS8	1963AIFE	LT1963AIFE	2239	LTC2239IUF	241HVI	LTC6241HVIS8	2605I1	LTC2605IGN-1	2804	LTC2804CDE
1803	LT1803CS8	1867L	LTC1867LCS8	1963EFE	LT1963EFE	2245	LTC2245CUH	2420	LTC2420CS8	2607	LTC2607CDE	2804	LTC2804IDHC
1803I	LT1803IS8	1874	LTC1874EEN	1963EFE15	LT1963EFE-1.5	2245	LTC2245IUF	2420I	LTC2420IS8	2607	LTC2607IDE	2804I	LTC2804CGN-1
1804	LT1804CS8	1875	LTC1875EEN	1963EFE18	LT1963EFE-1.8	2246	LTC2246CUH	242HVH	LTC6242HVH88	2607I	LTC2607CDE-1	2804I1	LTC2804IGN-1
1804I	LT1804IS8	1879	LTC1879EEN	1963EFE25	LT1963EFE-2.5	2246	LTC2246IUF	242HVI	LTC6242HVIS8	2607I	LTC2607IDE-1	2845	LTC2845CUHF
1806	LT1806CS8	1881	LT1881CS8	1963EFE33	LT1963EFE-3.3	2246H	LTC2246HCUH	2430	LTC2430CGN	2609	LTC2609CGN	2845I	LTC2845IUFH
1806I	LT1806IS8	1881A	LT1881ACS8	1963I	LT1963IS8	2247	LTC2247CUH	2430I	LTC2430IGN	2609I	LTC2609CGN-1	2847	LTC2847CUHF
1807	LT1807CS8	1881AI	LT1881AIS8	1976BEFE	LT1976BEFE	2247	LTC2247IUF	2435	LTC2435CGN	2609I	LTC2609IGN	2847I	LTC2847IUFH
1807H	LT1807HS8	1881I	LT1881IS8	1976BIFE	LT1976BIFE	2248	LTC2248CUH	2435I	LTC2435-1CGN	2609I1	LTC2609IGN-1	2850	LTC2850CS8
1807I	LT1807IS8	1884	LT1884CS8	1976EFE	LT1976EFE	2248	LTC2248IUF	2435I1	LTC2435-1IGN	2610	LTC2610CGN	2850H	LTC2850HS8
1809	LT1809CS8	1884A	LT1884ACS8	1976HFE	LT1976HFE	2249	LTC2249CUH	2435I	LTC2435IGN	2610	LTC2610CUFD	2850I	LTC2850IS8
1809I	LT1809IS8	1884AI	LT1884AIS8	1976IFE	LT1976IFE	2249	LTC2249IUF	2436I	LTC2436-1CGN	2610	LTC2610IUF	2851	LM285S8-1.2
1810	LT1810CS8	1884I	LT1884IS8	1977BEFE	LT1977BEFE	2250	LTC2250CUH	2436I1	LTC2436-1IGN	2610I	LTC2610IGN	2851	LTC2851CS8
1810I	LT1810IS8	1886	LT1886CS8	1977BIFE	LT1977BIFE	2250	LTC2250IUF	2440	LTC2440CGN	2614	LTC2614CGN	2851H	LTC2851HS8
1812	LT1812CS8	1886I	LT1886IS8	1977EFE	LT1977EFE	2251	LTC2251CUH	2440I	LTC2440IGN	2614I	LTC2614CGN-1	2851I	LTC2851IS8
1812I	LT1812IS8	1905	LT1905CS8-5	1977IFE	LT1977IFE	2251	LTC2251IUF	2444	LTC2444CUHF	2614I	LTC2614IGN	2852	LM285S8-2.5
1813	LT1813CS8	1910	LT1910CS8-10	1990	LT1990CS8	2252	LTC2252CUH	2444	LTC2444IUFH	2614I1	LTC2614IGN-1	2855	LTC2855CDE
1813D	LT1813DS8	1910E	LT1910ES8	1990I	LT1990CS8-10	2252	LTC2252IUF	2445	LTC2445CUHF	2615	LTC2615CGN	2855	LTC2855CGN
1813HV	LT1813HVC88	1910I	LT1910IS8	1990A	LT1990ACS8	2253	LTC2253CUH	2445	LTC2445IUFH	2615I	LTC2615CGN-1	2855	LTC2855HDE
1813I	LT1813CS8	191118	LTC1911ES8-1.8	1990AH	LT1990AHS8	2253	LTC2253IUF	2446	LTC2446CUHF	2615I	LTC2615IGN	2855	LTC2855IDE
1814	LT1814CGN	1920	LT1920CS8	1990AI	LT1990AIS8	2254	LTC2254CUH	2446	LTC2446IUFH	2615I1	LTC2615IGN-1	2855H	LTC2855HGN
1814I	LT1814IGN	1920I	LT1920IS8	1990H	LT1990HS8	2254	LTC2254IUFH	2447	LTC2447CUHF	2617	LTC2617CDE	2855I	LTC2855IGN
1815	LT1815CS8	1921	LTC1921CS8	1990I	LT1990IS8	2255	LTC2255CUH	2447	LTC2447IUFH	2617	LTC2617IDE	2860	LTC2860CDE
1815I	LT1815IS8	1921I	LTC1921IS8	1994	LT1994CS8	2255	L						

TOP MARKINGS (TOP MARK TO PART NUMBER)

28611	LTC2861IGN	2952	LTC2952CUF	3071	LT3071MPUFD	3443	LTC3443EDE	3517FE	LT3517IFE	3599H	LT3599HUH	36LM18	LTC2636HMS-LM18
2865	LTC2865CDE	2952	LTC2952IUF	3080	LT3080EST	3445	LTC3445EUF	3518	LT3518EUF	3601	LTC3601EMSE	36LM18	LTC2636IMS-LM18
2865	LTC2865CMSE	2953Z	LTC2953IMS-2	3080EFE	LT3080EFE	3446	LTC3446EDE	3518FE	LT3518IFE	3601FE	LTC3601EMSE	36LMX8	LTC2636CMS-LMX8
2865	LTC2865IDE	2970	LTC2970CUF	3082	LT3082EST	3446	LTC3446IDE	3518FE	LT3518FE	3602	LTC3602EUF	36LMX8	LTC2636HMS-LMX8
2865	LTC2865IMSE	2970	LTC2970IUF	3082MP	LT3082MPST	3452	LTC3452EUF	3518FE	LT3518FE	3602	LTC3602EUF	36LZ10	LTC2636CMS-LZ10
2870	LTC2870CUFD	29701	LTC2970CUFD-1	3082MP	LT3082MPST	3453	LTC3453EUF	3518FE	LT3518IFE	36021	LTC3602EUF-1	36LZ10	LTC2636HMS-LZ10
2870	LTC2870CUHF	29701	LTC2970IUF-1	3092	LT3092EST	3455	LTC3455EUF	3519	LT3519EMS	36021	LTC3602EUF-1	36LZ10	LTC2636HMS-LZ10
2870	LTC2870IUF	2981	LTC2981ACGN	3092	LT3092IST	34551	LTC3455EUF-1	3519	LT3519IMS	36022	LTC3602EUF-2	36LZ10	LTC2636IMS-LZ10
2870	LTC2870IUHF	2981	LTC2981AIGN	3092MP	LT3092MPST	3456	LTC3456EUF	35191	LT3519EMS-1	3602EFE1	LTC3602EFE-1	36LZ12	LTC2636CMS-LZ12
2871	LTC2871CUHF	2981	LTC2981BCGN	3101	LT3101EUF	3458	LTC3458EDE	35191	LT3519IMS-1	3602EFE2	LTC3602EFE-2	36LZ12	LTC2636HMS-LZ12
2871	LTC2871IUHF	2981	LTC2981BIGN	3150	LT3150CGN	3458EFE	LTC3458EFE	35192	LT3519EMS-2	3602FE	LTC3602EFE	36LZ12	LTC2636IMS-LZ12
29011	LTC2901-1CGN	29811	LTC2981ACGN-1	318	LM318S8	3458L	LTC3458LEDE	35192	LT3519IMS-2	3602FE	LTC3602IFE	36LZ8	LTC2636CDE-LZ8
290111	LTC2901-1IGN	29811	LTC2981AIGN-1	3205	LTC3205EUF	3458LEFE	LTC3458LEFE	3520	LTC3520EUF	3603	LTC3603EMSE	36LZ8	LTC2636HDE-LZ8
29012	LTC2901-2CGN	2981A	LTC2981ACUFD	3205X	LTC3205XEUF	3459	LTC3459ES8	3520	LTC3520IUF	3603	LTC3603EUF	36LZ8	LTC2636IDE-LZ8
290121	LTC2901-2IGN	2981A	LTC2981AIUFD	3206	LTC3206EUF	3466EFE	LTC3466EFE	3524	LTC3524EUF	3603	LTC3603IMSE	3701	LTC3701EGN
29013	LTC2901-3CGN	2981B	LTC2981BCUFD	3207	LTC3207EUF	3469	LTC3469ES8	352533	LTC3525ES8-3.3	3603	LTC3603IUF	3703	LTC3703EGN
290131	LTC2901-3IGN	2981B	LTC2981BIUFD	32071	LTC3207EUF-1	3473A	LT3473AEDE	3533	LTC3533EDE	36031	LTC3603EMSE-1	37035	LTC3703EGN-5
29014	LTC2901-4CGN	3011	LT3011EMSE	3208	LTC3208EUF	3474EFE	LT3474EFE	3534	LTC3534EDE	3603FE	LTC3603EFE	3703H	LTC3703HGN
290141	LTC2901-4IGN	3011	LT3011HMSE	32091	LTC3209EUF-1	3474EFE-1	LT3474EFE-1	3534	LTC3534EDHC	3603FE	LTC3603IFE	37031	LTC3703IGN
29021	LTC2902-1CGN	3011	LT3011IMSE	32092	LTC3209EUF-2	3474IFE	LT3474IFE	3534	LTC3534EGN	3605	LTC3605EUF	370315	LTC3703IGN-5
290211	LTC2902-1IGN	3012	LT3012EDE	3216	LTC3216EDE	3474IFE-1	LT3474IFE-1	3534	LTC3534IDE	36051	LTC3605EUF-1	3705	LTC3705EGN
29022	LTC2902-2CGN	3012B	LT3012BEDE	3220	LTC3220EUF	3476	LT3476EUF	3534	LTC3534IDHC	365041	LTC3650EMSE-4.1	37051	LTC3705IGN
290221	LTC2902-2IGN	3012BEFE	LT3012BEFE	32201	LTC3220EUF-1	3477	LT3477EUF	3534	LTC3534IGN	365041	LTC3650IMSE-4.1	3708	LTC3708EUF
2910	LTC2910CDHC	3012EFE	LT3012EFE	3220T	LTC3220EPF	3477	LT3477IUF	3546	LTC3546EUF	365042	LTC3650EMSE-4.2	3709	LTC3709EUF
2910	LTC2910CGN	3012HFE	LT3012HFE	3220T	LTC3220IPF	3478FE	LT3478FE	3546	LTC3546IUF	365042	LTC3650IMSE-4.2	3710EFE	LTC3710EFE
2910	LTC2910HDHC	3012I	LT3012IDE	3252	LTC3252EDE	3478FE	LT3478IFE	3550	LTC3550IDHC	365082	LTC3650EMSE-8.2	3717	LTC3717EGN
2910	LTC2910IDHC	3012IFE	LT3012IFE	326125	LTC1326IS8-2.5	3478FE-1	LT3478FE-1	35501	LTC3550EDHC-1	365082	LTC3650IMSE-8.2	37171	LTC3717EUF-1
2910H	LTC2910HGN	3013	LT3013EDE	334	LM334S8	3478FE-1	LT3478FE-1	3552	LTC3552EDHC	365084	LTC3650EMSE-8.4	37211	LTC3721EGN-1
29101	LTC2910IGN	3013B	LT3013BEDE	3401	LT1034CS8-1.2	3479	LT3479EDE	35521	LTC3552EDHC-1	365142	LTC3651EUHE-4.2	37231	LTC3723EGN-1
29141	LTC2914CDHC-1	3013BEFE	LT3013BEFE	3402	LT1034CS8-2.5	3479EFE	LT3479EFE	3553	LTC3553EDE	365142	LTC3651EUHE-4.2	37231	LTC3723EGN-1
291411	LTC2914CGN-1	3013FE	LT3013FE	3412	LTC3412EDE	3486	LT3486EDHC	35531	LTC3553IDE	365142	LTC3651EUHE-8.2	37232	LTC3723EGN-2
291411	LTC2914HDHC-1	3013HFE	LT3013HFE	3412A	LTC3412AEUF	3486EFE	LT3486EFE	3555	LTC3555EUF	365182	LTC3651EUHE-8.2	3724EFE	LTC3724EFE
291411	LTC2914IDHC-1	3013I	LT3013IDE	3412A	LTC3412AIUF	3486IFE	LT3486IFE	35551	LTC3555EUF-1	365182	LTC3651EUHE-8.2	3724IFE	LTC3724IFE
29142	LTC2914CDHC-2	3013IFE	LT3013IFE	3412AEFE	LTC3412AEFE	3490	LTC3490ES8	35551	LTC3555IUF-1	3652	LTC3652EMSE	3724MPFE	LTC3724MPFE
29142	LTC2914CGN-2	3013MPFE	LT3013MPFE	3412AIFE	LTC3412AIFE	3493ES	LTC3493ES8	35553	LTC3555EUF-3	3652	LTC3652IMSE	3726	LTC3726EGN
29142	LTC2914HDHC-2	3021	LT3021EDH	3412AMPE	LTC3412AMPE	3496	LTC3496EUF	35553	LTC3555IUF-3	3681	LTC3681EDE	37261	LTC3726IGN
29142	LTC2914IDHC-2	3021	LT3021ES8	3412EFE	LTC3412EFE	3496	LTC3496IUF	35551	LTC3555IUF	3682	LTC3682EDE	37271	LTC3727EUF-1
2914H1	LTC2914HGN-1	302112	LT3021EDH-1.2	3412IFE	LTC3412IFE	34102	LT1034IS8-2.5	3556	LTC3556EUF	3682	LTC3682IDE	3728	LTC3728EUF
2914H2	LTC2914HGN-2	302112	LT3021ES8-1.2	3413EFE	LTC3413EFE	3500	LT3500EMSE	3557	LTC3557EUF	3682H	LTC3682HDE	3728	LTC3728IUF
291411	LTC2914IGN-1	302115	LT3021EDH-1.5	3413IFE	LTC3413IFE	3500	LT3500HMSE	35571	LTC3557EUF-1	3683	LTC3683EDE	3728L	LTC3728LCUH
291412	LTC2914IGN-2	302115	LT3021ES8-1.5	3415	LTC3415EUF	3500	LT3500HMSE	3566	LTC3566EUF	3689	LTC3689EMSE	3728L1	LTC3728LCUH-1
2921	LTC2921CGN	302118	LT3021EDH-1.8	3417	LTC3417EDHC	3504	LTC3504EUF	3566	LTC3566IUF	3689	LTC3689HMSE	3728L1	LTC3728LIUH-1
292125	LTC2921CGN-2.5	302118	LT3021ES8-1.8	3417A	LTC3417AEDHC	3504	LTC3504IUF	35662	LTC3566EUF-2	3689	LTC3689IMSE	3728LE	LTC3728LEUH
292133	LTC2921CGN-3.3	302118	LT3021IS8-1.8	3417A1	LTC3417AEDHC-1	3506	LT3506EDHD	3567	LTC3567EUF	36895	LTC3689EMSE-5	3728L1	LTC3728L1UH
29211	LTC2921IGN	3022	LT3022EDHC	3417A1	LTC3417AIDHC-1	3506	LT3506IDHD	3569FE	LTC3569EUF	36895	LTC3689HMSE-5	3728LX	LTC3728LXCUH
29221	LTC2922-1CGN	3022	LT3022EMSE	3417A2	LTC3417AEDHC-2	3506A	LTC3506AEDHD	3569FE	LTC3569IFE	36895	LTC3689IMSE-5	3728L2	LTC3728L2EUF
292211	LTC2922-1IGN	3022	LT3022IDHC	3417A2	LTC3417AIDHC-2	3506A	LTC3506AIDHD	3570	LT3570EUF	3689FE	LTC3689FE	3729	LTC3729EUF
2923	LTC2923CDE	3022	LT3022IMSE	3417AL	LTC3417ALEDDHC	3506AEFE	LTC3506AEFE	3570	LT3570IUF	3689FE	LTC3689HFE	37296	LTC3729EUF-6
2923	LTC2923IDE	3022EFE	LT3022EFE	3417AL	LTC3417ALIDHC	3506AIFE	LTC3506AIFE	3571	LT3571EMSE	3689FE	LTC3689IFE	37296L	LTC3729EUF-6
2924	LTC2924CGN	3024	LT3024EDE	3417S	LTC3417SEDDHC	3506EFE	LTC3506EFE	3571	LT3571IMSE	3695	LTC3695EMSE	3731	LTC3731CUH
29241	LTC2924IGN	3024	LT3024IDE	3418	LTC3418EUF	3506IFE	LTC3506IFE	3572	LT3572EUF	3695	LTC3695HMSE	37311	LTC3731IUF
2925	LTC2925CUF	3024EFE	LT3024EFE	3421	LTC3421EUF	3506L	LTC3506LEDHD	3572	LT3572IUF	3695	LTC3695IMSE	3732	LTC3732CUHF
2925	LTC2925IUF	3024IFE	LT3024IFE	3425	LTC3425EUF	3506LEFE	LTC3506LEFE	3573	LT3573EMSE	369533	LTC3695EMSE-3.3	37331	LTC3733CUHF-1
2926	LTC2926CUF	3028	LT3028EDHC	3430EFE	LTC3430EFE	3507	LT3507EUF	3573	LT3573IMSE	369533	LTC3695HMSE-3.3	3734	LTC3734EUF
2926	LTC2926CUFD	3028EFE	LT3028EFE	3430EFE-1	LTC3430EFE-1	3507	LT3507IUF	3574	LT3574EMSE	369533	LTC3695IMSE-3.3	3735	LTC3735EUF
2926	LTC2926IUF	30281	LT3028IDHC	3430IFE	LTC3430IFE	3507	LT3507IUF	3574	LT3574IMS	36955	LTC3695EMSE-5	3736	LTC3736EUF
2926	LTC2926IUF	3028IFE	LT3028IFE	3430IFE-1	LTC3430IFE-1	3508	LT3508EUF	3576	LTC3576EUF	36955	LTC3695HMSE-5	37361	LTC3736EUF-1
2928	LTC2928CUHF	3029	LT3029EDE	3431EFE	LT3431EFE	3508	LT3508IUF	3576	LTC3576IUF	36955	LTC3695IMSE-5	37362	LTC3736EUF-2
2928	LTC2928IUF	30291	LT3029EMSE	3431IFE	LT3431IFE	3508FE	LTC3508FE	35761	LTC3576EUF-1	36HM18	LTC2636CMS-HM18	3737	LTC3737EUF
2933	LTC2933CDHC	3029	LT3029HMSE	3433	LTC3433EGN	3508FE	LTC3508FE	35761	LTC3576IUF-1	36HM18	LTC2636HMS-HM18	3738	LTC3738CUHF
2933	LTC2933CGN	3029	LT3029IDE	3433EFE	LTC3433EFE	3508H	LTC3508HUF	3577	LTC3577EUF	36HM18	LTC2636IMS-HM18	3740	LTC3740EDHC
2933	LTC2933IDHC	3029	LT3029IMSE	3433IFE	LTC3433IGN	3508HFE	LTC3508HFE	35771	LTC3577EUFF-1	36HM18	LTC2636CMS-HM18	3742	LTC3742EUF
29331	LTC2933IGN	3029MP	LT3029MPMSE	3433IFE	LTC3433IFE	3509	LT3509EDE	35773	LTC3577EUFF-3	36HM18	LTC2636HMS-HM18	37421	LTC3742EUF-1
2936	LTC2936CUFD	3032	LT3032EDE	3434EFE	LTC3434EFE	3509	LT3509EMSE	35774	LTC3577EUFF-4	36HM18	LTC2636IMS-HM18	3745N	LT1374CS8-5 SYNC
2936	LTC2936IUF	3032	LT3032IDE	3434IFE	LTC3434IFE	3509	LT3509EDE	3586	LTC3586EUF	36HZ10	LTC2636CMS-HZ10	3745V	LT1374HVS8
2938	LTC2938CDE	3035	LTC3035ES8	3435EFE	LTC3435EFE	3509	LT3509HMSE	35861	LTC3586EUF-1	36HZ10	LTC2636HMS-HZ10	3745N	LT1374IS8-SYNC
2938	LTC2938CMS	3050	LT3050EMSE	3435IFE	LTC3435IFE	3509	LT3509IDE	3595	LT3595EUF	36HZ10	LTC2636IMS-HZ10	3751	LTC3751EUF
2938	LTC2938HDE	3050	LT3050IMSE	3436EFE	LTC3436EFE	3509	LT3509IMSE	3595A	LT3595AUF	36HZ12	LTC2636CMS-HZ12	3751	LTC3751IUF
2938	LTC2938HMS	3050MP	LT3050MPMSE	3437EFE	LTC3437EFE	3513	LT3513EUF	3597	LT3597EUF	36HZ12	LTC2636IMS-HZ12	3754	LTC3754EUF
2938	LTC2938IDE	3070	LT3070EUF	3437HFE	LTC3437HFE	3513	LT3513IUF	3597	LT3597IUF	36HZ12	LTC2636IMS-HZ12	3754	LTC3754IUF
2938	LTC2938IMS	3070	LT3070IUF	3437IFE	LTC3437IFE	3517	LT3517EUF	3598	LT3598EUF	36HZ8	LTC2636CDE-HZ8	3755	LTC3755EMSE
2939	LTC2939HMS	3070	LT3070MPUFD	3439EFE	LTC3439EFE	3517	LT3517IUF	3598	LT3598IUF	36HZ8	LTC2636HDE-HZ8	3755	LTC3755IMSE
2939	LTC2939IMS	3071	LT3071EUF	3441	LTC3441EDE	3517FE	LT3517FE	3599	LT3599EUF	36HZ8	LTC2636IDE-HZ8	37551	LTC3755EMSE-1
2939	LTC2939CMS	3071	LT3071IUF	3442	LTC3442EDE	3517FE	LT3517HFE	3599	LT3599IUF	36LM18	LTC2636CMS-LM18	37551	LTC3755IMSE-1

Amps, Refs, Filters, Comps
 Power Management
 Data Conversion
 Interface
 RF/Wireless
 Space, Military, Harsh Envir.
 Reference Material

TOP MARKINGS (TOP MARK TO PART NUMBER)

Reference Material	Space, Military, Harsh Envir.	RF/Wireless	Interface	Data Conversion	Power Management	Amps, Refs, Filters, Comps							
37552	LT3755EMSE-2	3808	LTC3808EDE	3855	LTC3855IUH	40121	LTC4012CUF-1	4242	LTC4242CUHF	4305	LTC4305CDHD	461B4	LT1461BIS8-4
37552	LT3755HMSE-2	3808	LTC3808EEN	3855	LTC3855IUH40	40121	LTC4012EUF-1	4242	LTC4242IUHF	4305	LTC4305CGN	461B5	LT1461BIS8-5
37552	LT3755IMSE-2	3810	LTC3810EEN	3855	LTC3855EUF-1	40122	LTC4012CUF-2	4245	LTC4245CUHF	4305	LTC4305IDHD	461C25	LT1461CCS8-2.5
3755A	LT3755AEMSE	3810	LTC3810EUF-5	3855	LTC3855IUH-1	40122	LTC4012EUF-2	4245	LTC4245IUHF	4305	LTC4305IGN	461C33	LT1461CCS8-3.3
3755A	LT3755AIMSE	38105	LTC3810EUF-5	3857	LTC3857EUF	40123	LTC4012CUF-3	4250H	LT4250HGS8	4306	LTC4306CUFD	461C33	LT1461CCS8-3
3756	LT3756EMSE	38105	LTC3810EUF-5	3857	LTC3857IUH	4055	LTC4055EUF	4250HI	LT4250HIS8	4306	LTC4306IUFD	461C33	LT1461CCS8-3
3756	LT3756IMSE	3811	LTC3811EUFH	38571	LTC3857EUF0-1	40551	LTC4055EUF-1	4250LI	LT4250LCS8	4309	LTC4309CFD	461C33	LT1461CCS8-3
37561	LT3756EMSE-1	3812EFE-5	LTC3812EFE-5	38571	LTC3857IUFD-1	4060	LTC4060EUF	4250LI	LT4250LIS8	4309	LTC4309CGN	461DH3	LT1461DHS8-3
37561	LT3756IMSE-1	3812IFE-5	LTC3812IFE-5	3858	LTC3858EUF	4060EFE	LTC4060EUF	4251	LT4251CS8	4309	LTC4309IDE	461DH4	LT1461DHS8-4
37562	LT3756EMSE-2	3813	LTC3813EUF	3858	LTC3858IUH	4066	LTC4066EUF	42511	LT4251IS8	43091	LTC4309IGN	461DH5	LT1461DHS8-5
37562	LT3756IMSE-2	3813	LTC3813IUF	38581	LTC3858EUF0-1	40661	LTC4066EUF-1	42521	LTC4252-1CS8	4350	LTC4350CGN	474133	LT1461DHS8-3.3
37562	LT3756EMSE-2	38135	LTC3813EUF-5	38581	LTC3858IUFD-1	4066T	LTC4066EUF	42522	LTC4252-2CS8	43501	LTC4350IGN	485	LTC485CS8
3756A	LT3756AEMSE	3814EFE-5	LTC3814EFE-5	3859	LTC3859EUF	4067	LTC4067EUF	4253	LTC4253CGN	4351	LT4351CS8	4851	LTC485IS8
3756A	LT3756AIMSE	3814IFE-5	LTC3814IFE-5	3859	LTC3859IUHF	4085	LTC4085EUF	4253A	LTC4253ACGN	43511	LT4351IS8	490	LTC490CS8
375HVI	LT1375HVIS8	38221	LTC3822EUF-1	385IMP	LTC3851MPMSE	4085	LTC4085EUF	4253AI	LTC4253AIGN	4352	LTC4352CMS	4901	LTC490IS8
376HVI	LT1376HVIS8	3823	LTC3823EUF	3860	LTC3860EUF	40851	LTC4085EUF-1	4253AI	LTC4253AIGN	4352	LTC4352CMS	502133	LT1502IS8-3.3
3770	LTC3770EUF	3825EFE	LTC3825EUF	3860	LTC3860EUF	4088	LTC4088EUF	4253J	LTC4253CUF-ADJ	4354	LTC4354CS8	503118	LT1503IS8-1.8
3773	LTC3773CUHF	3826	LTC3826EUF	3862	LTC3862EUF	40881	LTC4088EUF-1	4253J	LTC4253IUF-ADJ	43541	LTC4354CS8-1	504A33	LTC1504ACS8-3.3
3773E	LTC3773EUFH	3826	LTC3826IUF	3862	LTC3862EUF	40882	LTC4088EUF-2	4254	LTC4254CGN	43542	LTC4354CS8-2	506133	LT1506IS8-3.3
37731	LTC3773IUFH	3827	LTC3827EUF	3862	LTC3862EUF	4089	LTC4089EUF	42541	LT4254-1CGN	43541	LTC4354CS8	5100	LTC5100EUF
3775	LTC3775EMSE	3827	LTC3827IUF	3862	LTC3862IUF	40891	LTC4089EUF-1	425411	LT4254-1IGN	4355	LTC4355CDE	514133	LTC1514IS8-3.3
3775FE	LTC3775FE	3827H	LTC3827IUFH	3862	LTC3862IUF	40895	LTC4089EUF-5	42542	LT4254-2CGN	4355	LTC4355CMS	515335	LT1515CS8-3.3/5
3776	LTC3776EUF	3828	LTC3828EUF	38621	LTC3862EUF-1	4090	LTC4090EUF	425421	LT4254-2IGN	4355	LTC4355EMS	515135	LTC1515IS8-3.5
3780	LTC3780EUF	3830	LTC3830EUF	38621	LTC3862EUF-1	40905	LTC4090EUF-5	42541	LTC4254IGN	4355	LTC4355IDE	530119	LTC1530IS8-1.9
37801	LTC3780IUF	3830	LTC3830EUF	38621	LTC3862EUF-1	4110	LTC4110EUF	42561	LTC4256-1CS8	4355	LTC4355IMS	530125	LTC1530IS8-2.5
3780MP	LTC3780MPUH	38301	LTC3830-1E58	38621	LTC3862IUF-1	417AL1	LTC3417ALDHC-1	425611	LT4256-1IS8	4356	LTC4356IDE	530128	LTC1530IS8-2.8
3782	LTC3782EUF	38308	LTC3830EUF-8	38621	LTC3862IUF-1	417AL1	LTC3417ALDHC-1	42562	LT4256-2CS8	4356	LT4356HDE	530133	LT1530IS8-3.3
3782	LT3782IUF	3831	LTC3831EUF	3862H	LTC3862HUF	4210	LTC4210CS8	425621	LT4256-2IS8	4356	LT4356IDE	54H12	LTC2654CUF-H12
3782A	LT3782AEUF	3831	LTC3831IUF	3868	LTC3868EUF	42101	LTC4210-1CS8	425623	LTC4256-3CGN	43561	LTC4356CDE-1	54H12	LTC2654HUF-H12
3782A	LT3782AHUF	38311	LTC3831EUF-1	3868	LTC3868IUF	421011	LTC4210-1IS8	425631	LTC4256-3IGN	43561	LTC4356HDE-1	54H16	LTC2654IUF-H12
3782A	LT3782AIUF	3832	LTC3832EUF	38681	LTC3868EUF0-1	42102	LTC4210-2CS8	4257	LTC4257CS8	43561	LTC4356HDE-2	54H16	LTC2654IUF-H16
3782H	LT3782HUF	38321	LTC3832-1E58	38681	LTC3868IUF0-1	421021	LTC4210-2IS8	42571	LTC4257CS8-1	43562	LTC4356HDE-2	54H16	LTC2654HUF-H16
3783	LTC3783EDHD	3834	LTC3834EUF	3878	LTC3878EUF	42103	LTC4210-3CS8	425711	LTC4257IS8	43562	LTC4356HDE-2	54H12	LTC2654IUF-H12
3783	LTC3783IDHD	3834	LTC3834IUF	3878	LTC3878IUF	421031	LTC4210-3IS8	42572	LTC4257IS8-1	43562	LTC4356HDE-2	54H12	LTC2654IUF-H12
3783EFE	LTC3783EFE	38341	LTC3834EUF-DHC-1	3879	LTC3879EUF	42104	LTC4210-4CS8	425721	LTC4257IUF-2	43563	LTC4356HDE-3	54L12	LTC2654HUF-L12
3783IFE	LTC3783IFE	38341	LTC3834EUF-1	3879	LTC3879EUF	421041	LTC4210-4IS8	425722	LTC4257IUF-2	43563	LTC4356HDE-3	54L12	LTC2654HUF-L12
3785	LTC3785EUF	38341	LTC3834IDHC-1	3879	LTC3879EMSE	4211	LTC4211CS8	4260	LTC4260CUH	43563	LT4356IDE-3	54L16	LTC2654CUF-L16
3785	LTC3785IUF	38341	LTC3834IGN-1	3879	LTC3879IGN	42111	LTC4211IS8	4260	LTC4260IUF	435611	LT4356IGN-1	54L16	LTC2654HUF-L16
37851	LTC3785EUF-1	3835	LTC3835EUF	3879	LTC3879IMS	4213	LTC4213CS8	4261	LTC4261CUFD	4358	LTC4358CDE	5506	LTC5506EUF
37HMI8	LTC2637CMS-HMI8	3835	LTC3835IUF	3879	LTC3879IMSE	42131	LTC4213IS8	4261	LTC4261IUF	4358	LTC4358IDE	5506A	LT5506AEUF
37HMI8	LTC2637HMS-HMI8	38351	LTC3835EUF-DHC-1	389A12	LT1389ACS8-1.25	4215	LTC4215CGN	42612	LTC4261CUFD-2	4358FE	LTC4358CDE	5506A	LT5506AEUF
37HMI8	LTC2637IMS-HMI8	38351	LTC3835EUF-1	389B12	LT1389BCS8-1.25	4215	LTC4215CUFD	42612	LTC4261IUF0-2	4358FE	LTC4358CDE	5506A	LT5506AEUF
37HMX8	LTC2637CMS-HMX8	38351	LTC3835IDHC-1	389B25	LT1389BCS8-2.5	4215	LTC4215IUF	4263	LTC4263CDE	4358FE	LTC4358CDE	5506A	LT5506AEUF
37HMX8	LTC2637HMS-HMX8	3900	LTC3835IUF	3900	LTC3900EUF	42151	LTC4215IUF-1	4263	LTC4263CDE	4358FE	LTC4358CDE	5506A	LT5506AEUF
37HMX8	LTC2637IMS-HMX8	3900	LTC3836EUF	3900	LTC3900IS8	42151	LTC4215IUF-2	42631	LTC4263CDE-1	4358FE	LTC4358CDE	5506A	LT5506AEUF
37H210	LTC2637CMS-HZ10	3837EFE	LTC3837EUF	3901	LTC3901EUF	42152	LTC4215CUFD-2	426311	LTC4263IUF-1	4412E	LTC4412EUF	5512	LT5512EUF
37H210	LTC2637HMS-HZ10	3837FE	LTC3837IUF	3901EFE	LTC3901EFE	42152	LTC4215IUF0-2	4264	LTC4264CDE	4425	LTC4425EMSE	5515	LT5515EUF
37H210	LTC2637IMS-HZ10	3844EFE	LTC3844EUF	398	LF398S8	42153	LTC4215IUF0-3	4264	LTC4264CDE	4440	LTC4440ES8	5516	LT5516EUF
37H212	LTC2637CMS-HZ12	3844IFE	LTC3844IUF	3980	LTC3980EUF	42153	LTC4215IUF0-3	4265	LTC4265CDE	4441	LTC4441EUF	5517	LT5517EUF
37H212	LTC2637HMS-HZ12	3845FE	LTC3845EUF	3980	LTC3980EMSE	42151	LTC4215IUF	4265	LTC4265CDE	44411	LTC4441ES8-1	5518	LT5518EUF
37H212	LTC2637IMS-HZ12	3845FE	LTC3845IUF	3980	LTC3980HMSE	4216	LTC4216CDE	4266	LTC4266CUHF	44411	LTC4441ES8-1	5518	LT5518EUF
37H28	LTC2637CDE-HZ8	3845FE	LTC3845EUF	3980	LTC3980IUF	4216	LTC4216IDE	4266	LTC4266IUFH	444111	LTC4441IS8-1	55125	LTC1551LCS8-2.5
37H28	LTC2637HDE-HZ8	3850	LTC3850EUF	3980	LTC3980IMSE	4217	LTC4217CDE	4267	LTC4267CUHF	4445	LTC4445EUF	551L41	LTC1551LCS8-4.1
37H28	LTC2637IDE-HZ8	3850	LTC3850IUF	4001	LTC4001EUF	4217	LTC4217IDHC	4267	LTC4267CGN	4445	LTC4445IDE	5520	LTC5520EUF
37LMi8	LTC2637CMS-LMi8	3850	LTC3850EUF	40011	LTC4001EUF-1	421712	LTC4217CDHC-12	4267	LTC4267IDHC	44451	LTC4445IDE-1	5521	LTC5521EUF
37LMi8	LTC2637HMS-LMi8	3850	LTC3850IUF	400242	LTC4002EUF-4.2	421712	LTC4217IDHC-12	42671	LTC4267IDHC-12	44451	LTC4445IDE-1	5521A	LTC5521AEUF
37LMi8	LTC2637IMS-LMi8	3850	LTC3850IUF	400284	LTC4002ES8-8.4	4218	LTC4218CGN	42673	LTC4267IDHC-3	4556	LTC4556EUF	5522	LTC5522EUF
37LMX8	LTC2637CMS-LMX8	3851	LTC3851EUF	40062	LTC4006EUF	421812	LTC4218CDHC-12	42673	LTC4267IDHC-3	460B11	LT1460BIS8-10	5522T	LT5522TLNEUF
37LMX8	LTC2637HMS-LMX8	3851	LTC3851EUF	40064	LTC4006EUF-4	421812	LTC4218IDHC-12	42673	LTC4267IDHC-3	460B12	LT1460BIS8-2.5	5525	LTC5525EUF
37LMX8	LTC2637IMS-LMX8	3851	LTC3851EMSE-1	40066	LTC4006EUF-6	42181	LTC4218IGN	42671	LTC4267IGN	460B15	LT1460BIS8-5	5526	LTC5526EUF
37LZ10	LTC2637CMS-LZ10	3851	LTC3851IUF	4007	LTC4007EUF	4220	LTC4220CGN	426711	LTC4267IGN-1	460E11	LT1460EIS8-10	5527	LTC5527EUF
37LZ10	LTC2637HMS-LZ10	3851	LTC3851IUF	40071	LTC4007EUF0-1	42201	LTC4220IGN	426713	LTC4267IGN-3	460E12	LT1460EIS8-2.5	5528A	LTC5528EUF
37LZ10	LTC2637IMS-LZ10	3851 B	LTC3851BS8-1.2	4008	LTC4008EUF	4221	LTC4221CGN	42681	LTC4268CDK-1	460E15	LT1460EIS8-5	5533	LTC5533EUF
37LZ12	LTC2637CMS-LZ12	385111	LTC3851EUF-1	4009	LTC4009EUF	42211	LTC4221IGN	426811	LTC4268IDHC-1	460LH5	LT1460LH58-5	5535	LTC5535EUF
37LZ12	LTC2637HMS-LZ12	385111	LTC3851EUF-1	4009	LTC4009EUF	4222	LTC4222CUH	42691	LTC4269CDK-1	460MH5	LT1460MH58-5	5536	LTC5536EUF
37LZ12	LTC2637IMS-LZ12	385111	LTC3851EUF-1	40091	LTC4009EUF-1	4222	LTC4222IUF	426911	LTC4269IDHC-1	461A10	LT1461ACS8-10	5537	LTC5537EUF
37LZ8	LTC2637CDE-LZ8	385111	LTC3851EUF-1	40091	LTC4009EUF-1	42231	LTC4223CDHC-1	42692	LTC4269CDK-2	461A25	LT1461ACS8-2.5	5538	LTC5538EUF
37LZ8	LTC2637HDE-LZ8	3852	LTC3852EUF	40092	LTC4009EUF-2	42231	LTC4223CGN-1	42692	LTC4269IDK-2	461A33	LT1461ACS8-3.3	5540	LTC5540CUH
37LZ8	LTC2637IDE-LZ8	3852 B	LTC3852EUF	40092	LTC4009EUF-2	42231	LTC4223IDHC-1	42692	LTC4269IDK-4	461A33	LT1461ACS8-3.3	5540	LTC5540IUF
3800EFE	LTC3800EFE	3853	LTC3853EUF	40093	LTC4009EUF-3	42232	LTC4223CDHC-2	42694	LTC4269IDK-4	461A14	LT1461AIS8-4	5541	LTC5541CUH
3800IFE	LTC3800IFE	3854	LTC3854EMSE	4010CFE	LTC4010CFE	42232	LTC4223CGN-2	4274	LTC4274CUHF	461A15	LT1461AIS8-5	5541	LTC5541IUF
3802	LTC3802EUF	3854	LTC3854EMSE	4010EFE	LTC4010EFE	42232	LTC4223IDHC-2	4274	LTC4274IUFH	461B25	LT1461BCS8-2.5	5543	LTC5543CUH
3806	LTC3806EUF	3855	LTC3855EUF	4012	LTC4012CUF	422311	LTC4223IGN-1	4278	LTC4278CDK	461B33	LT1461BCS8-3.3	5543	LTC5543IUF
3806	LTC3806EEN	3855	LTC3855EUF40	4012	LTC4012EUF	422312	LTC4223IGN-2						

TOP MARKINGS (TOP MARK TO PART NUMBER)

5554	LT5554IUH	600110	LT6600IS8-10	6203I	LT6203IS8	654H16	LTC2654HGN-H16	6909	LTC6909CMS	6LMX12	LTC2636IMS-LMX12	7HZ12	LTC2637IDE-HZ12
5557	LT5557EUF	600115	LT6600IS8-15	6204	LT6204CGN	654H16	LTC2654IGN-H16	6909	LTC6909HMS	6LMX8	LTC2636CDE-LMX8	7LM11	LTC2637CDE-LM110
5558	LT5558EUF	600120	LT6600IS8-20	6204I	LT6204IGN	654L12	LTC2654CGN-L12	6909	LTC6909IMS	6LMX8	LTC2636HDE-LMX8	7LM11	LTC2637HDE-LM110
555L18	LTC1555LEGN-1.8	600125	LT6600IS8-2.5	6207	LT6207CGN	654L12	LTC2654HGN-L12	6901	LTC6901S8	6LMX8	LTC2636IDE-LMX8	7LM11	LTC2637IDE-LM110
5568	LT5568EUF	6010	LT6010CS8	6207I	LT6207IGN	654L12	LTC2654IGN-L12	69121	LTC6912CDE-1	6LZ10	LTC2636CDE-LZ10	7LM10	LTC2637CMS-LM110
55682	LT5568-2EUF	6010A	LT6010ACS8	6220	LT6220CS8	654L16	LTC2654CGN-16	69121	LTC6912CGN-1	6LZ10	LTC2636HDE-LZ10	7LM10	LTC2637HMS-LM110
5571	LT5571EUF	6010AI	LT6010AIS8	6220I	LT6220IS8	654L16	LTC2654HGN-L16	69121	LTC6912HDE-1	6LZ10	LTC2636IDE-LZ10	7LM10	LTC2637IMS-LM110
5572	LT5572EUF	6010I	LT6010IS8	6221	LT6221CS8	654L16	LTC2654IGN-L16	69121	LTC6912IDE-1	6LZ12	LTC2636CDE-LZ12	7LM12	LTC2637CMS-LM112
5575	LT5575EUF	6011	LT6011CS8	6221I	LT6221IS8	6552	LT6552CS8	69122	LTC6912CDE-2	6LZ12	LTC2636HDE-LZ12	7LM12	LTC2637HMS-LM112
5578	LT5578IUH	6011A	LT6011ACS8	6222	LT6222CGN	6552I	LT6552IS8	69122	LTC6912CGN-2	6LZ12	LTC2636IDE-LZ12	7LM12	LTC2637IMS-LM112
5579	LT5579IUH	6011AI	LT6011AIS8	6222I	LT6222IGN	6553	LT6553CGN	69122	LTC6912HDE-2	706119	LTC1706IS8-19	7LM12	LTC2637CDE-LM112
5598	LTC5598CUF	6011I	LT6011IS8	6231	LT6231CS8	6553I	LT6553IGN	69122	LTC6912IDE-2	726125	LTC1726IS8-2.5	7LM12	LTC2637HDE-LM112
5598	LTC5598IUF	6012	LT6012CGN	6231I	LT6231IS8	6554	LT6554CGN	6912H1	LTC6912HGN-1	727125	LTC1727IS8-2.5	7LM12	LTC2637IDE-LM112
55H12	LTC2655CUF-H12	6012A	LT6012ACGN	6232	LT6232CGN	6554I	LT6554IGN	6912H2	LTC6912HGN-2	727LX1	LTC3727LXEUH-1	7LM18	LTC2637CDE-LM18
55H12	LTC2655IUF-H12	6012AI	LT6012AIGN	6232I	LT6232IGN	6555	LT6555CUF	6912I1	LTC6912IGN-1	728LE1	LTC3728LXEUH-1	7LM18	LTC2637HDE-LM18
55H12	LTC2655HUF-H12	6012I	LT6012IGN	6234	LT6234CS8	6555	LT6555IUF	6912I2	LTC6912IGN-2	728LX1	LTC3728LXCUH-1	7LM18	LTC2637IDE-LM18
55H16	LTC2655CUF-H16	6013	LT6013CS8	6234I	LT6234IS8	6556	LT6556CUF	6915	LTC6915CDE	728LX1	LTC3728LXIUH	7LMX1	LTC2637CDE-LMX10
55H16	LTC2655HUF-H16	6013A	LT6013ACS8	6235	LT6235CGN	6556	LT6556IUF	6915	LTC6915CGN	728LZE	LTC3728LXZEUH	7LMX1	LTC2637HDE-LMX10
55H16	LTC2655IUF-H16	6013AI	LT6013AIS8	6235I	LT6235IGN	6557	LT6557CDHC	6915H	LTC6915HGN	731E82	LTC1731ES8-8.2	7LMX1	LTC2637IDE-LMX10
55L12	LTC2655CUF-L12	6013I	LT6013IS8	6240	LT6240CS8	6557	LT6557CGN	6915I	LTC6915IDE	7415SN	LTC1374IS8-5 SYNC	7LMX10	LTC2637CMS-LMX10
55L12	LTC2655HUF-L12	6014	LT6014CS8	6240H	LT6240HS8	6557	LT6557DHC	6915I	LTC6915IGN	7510	LTC7510EUH	7LMX10	LTC2637HMS-LMX10
55L12	LTC2655IUF-L12	6014A	LT6014ACS8	6240HV	LT6240HVC8	6557I	LT6557IGN	692	LTC692CS8	7510	LTC7510IUH	7LMX10	LTC2637IMS-LMX10
55L16	LTC2655CUF-L16	6014AI	LT6014AIS8	6240I	LT6240IS8	6558	LT6558CDHC	692I	LTC692I8	7510D	LTC7510DEUH	7LMX12	LTC2637CMS-LMX12
55L16	LTC2655HUF-L16	6014I	LT6014IS8	6241	LT6241CS8	6558	LT6558CGN	694	LTC694CS8	76315	LT1763CDE-1.5	7LMX12	LTC2637HMS-LMX12
55L16	LTC2655IUF-L16	60410	LT6604CUFF-10	6241H	LT6241HS8	6558	LT6558DHC	6943	LTC694CS8-3.3	76315	LT1763IDE-1.5	7LMX12	LTC2637IMS-LMX12
56331I	LTC1565-31IS8	60410I	LT6604IUFF-10	6241HV	LT6241HVC8	6558I	LT6558IGN	6943C	LTC6943CGN	76318	LT1763CDE-1.8	7LMX2	LTC2637CDE-LMX12
56H12	LTC2656CUF-H12	60415	LT6604CUFF-15	6241I	LT6241IS8	655H12	LTC2655CGN-H12	6943H	LTC6943HGN	76318	LT1763IDE-1.8	7LMX2	LTC2637HDE-LMX12
56H12	LTC2656IUF-H12	60415I	LT6604IUFF-15	6242	LT6242CDHC	655H12	LTC2655HGN-H12	6943I	LTC6943IGN	76325	LT1763CDE-2.5	7LMX2	LTC2637IDE-LMX12
56H16	LTC2656ACUFD-H16	60425	LT6604CUFF-2.5	6242	LT6242CGN	655H12	LTC2655IGN-H12	694I	LTC694IS8	76325	LT1763IDE-2.5	7LMX8	LTC2637CDE-LMX8
56H16	LTC2656AIUFD-H16	60425I	LT6604IUFF-2.5	6242	LT6242IDHC	655H16	LTC2655CGN-H16	694I3	LTC694IS8-3.3	76333	LT1763CDE-3.3	7LMX8	LTC2637HDE-LMX8
56H16	LTC2656BCUFD-H16	6079	LTC6079ACDHC	6242H	LT6242HGN	655H16	LTC2655HGN-H16	699	LTC699CS8	76333	LT1763IDE-3.3	7LMX8	LTC2637CDE-LMX8
56H16	LTC2656BIUFD-H16	6079I	LTC6079AIDHC	6242HV	LT6242HVCDHC	655H16	LTC2655IGN-H16	699I	LTC699IS8	763MP5	LT1763MPS8-5	7LZ10	LTC2637CDE-LZ10
56L12	LTC2656CUFD-L12	6079	LTC6079CDHC	6242HV	LT6242HVCDHC	655L12	LTC2655CGN-L12	6CH16	LTC2656CCUFD-H16	7661SN	LT1766IS8-SYNC	7LZ10	LTC2637HDE-LZ10
56L12	LTC2656IUF-L12	6079I	LTC6079CIGN	6242HV	LT6242HVCDHC	655L12	LTC2655HGN-L12	6CH16	LTC2656CUFD-H16	7615SN	LT1576IS8-5SYNC	7LZ10	LTC2637IDE-LZ10
56L16	LTC2656ACUFD-L16	6079	LTC6079IDHC	6242I	LT6242IGN	655L12	LTC2655IGN-L12	6CL16	LTC2656CCUFD-L16	787HVV	LT1787HVS8	7LZ12	LTC2637CDE-LZ12
56L16	LTC2656AIUFD-L16	6079A	LTC6079ACGN	6248	LT6248CMS	655L16	LTC2655CGN-L16	6CL16	LTC2656CUFD-L16	787HVI	LT1787HVIS8	7LZ12	LTC2637HDE-LZ12
56L16	LTC2656BCUFD-L16	6079AH	LTC6079AHGN	6248	LT6248HMS	655L16	LTC2655HGN-L16	6HM110	LTC2636CMS-HM110	789110	LT1789IS8-10	7LZ12	LTC2637IDE-LZ12
56L16	LTC2656BIUFD-L16	6079AI	LTC6079AIGN	6248	LT6248IMS	655L16	LTC2655IGN-L16	6HM110	LTC2636HMS-HM110	798125	LTC1798IS8-2.5	8043E	LTC8043ES8
571325	LT1573IS8-2.5	6079H	LTC6079HGN	6300	LT6300CGN	6560	LTC6560IUF	6HM110	LTC2636IMS-HM110	798141	LTC1798IS8-4.1	8043F	LTC8043FS8
573128	LT1573IS8-2.8	6079I	LTC6079IGN	6300I	LT6300IGN	65612	LTC2656CUFD-12	6HM112	LTC2636CMS-HM112	7HM11	LTC2637CDE-HM110	813HV	LT1813HVS8
573133	LT1573IS8-3.3	6082	LTC6082CDHC	634A1I	LT1634AIS8-1.25	65612	LTC2656IUF-12	6HM112	LTC2636HMS-HM112	7HM11	LTC2637HDE-HM110	813HVI	LT1813HVIS8
5765SN	LT1576CS8-5SYNC	6082	LTC6082CGN	634A12	LT1634AIS8-2.5	65616	LTC2656CUFD-16	6HM112	LTC2636IMS-HM112	7HM11	LTC2637IDE-HM110	8581	LT8581EDE
5761SN	LT1576IS8-SYNC	6082	LTC6082IDHC	634A14	LT1634AIS8-4.096	65616	LTC2656IUF-16	6HM18	LTC2636CDE-HM18	7HM110	LTC2637CMS-HM110	8581	LT8581EMSE
578125	LT1578IS8-2.5	6082H	LTC6082HGN	634A15	LT1634AIS8-5	65712	LTC2657CUFD-12	7HM10	LTC2636HDE-HM18	7HM110	LTC2637HMS-HM110	8581	LT8581IDE
579133	LT1579IGN-3.3	6082I	LTC6082IGN	634B1I	LT1634BIS8-1.25	65712	LTC2657HUF-12	7HM10	LTC2636IDE-HM18	7HM110	LTC2637IMS-HM110	8581	LT8581IMSE
57H12	LTC2657CUFD-H12	6085	LTC6085CDHC	634B12	LT1634BIS8-2.5	65712	LTC2657IUF-12	6HMX10	LTC2636CMS-HMX10	7HM112	LTC2637CMS-HM112	862H1	LTC3862HUF-1
57H12	LTC2657HUF-H12	6085	LTC6085CGN	634B14	LT1634BIS8-4.096	65716	LTC2657CUFD-16	6HMX10	LTC2636HMS-HMX10	7HM112	LTC2637HMS-HM112	864LA	LTC1864LAIS8
57H12	LTC2657IUF-H12	6085	LTC6085HDHC	634B15	LT1634BIS8-5	65716	LTC2657HUF-16	6HMX10	LTC2636IMS-HMX10	7HM112	LTC2637IMS-HM112	865LA	LTC1865LAIS8
57H16	LTC2657CUFD-H16	6085	LTC6085HGN	636HZ8	LTC2636CMS-HZ8	660	LTC660CS8	6HMX12	LTC2636CMS-HMX12	7HM12	LTC2637CDE-HM112	921125	LTC2921IGN-2.5
57H16	LTC2657HUF-H16	6088	LTC6088CDHC	636HZ8	LTC2636HMS-HZ8	660010	LTC6600CS8-10	6HMX12	LTC2636HMS-HMX12	7HM12	LTC2637HDE-HM112	921133	LTC2921IGN-3.3
57H16	LTC2657IUF-H16	6088	LTC6088CGN	636HZ8	LTC2636IMS-HZ8	660015	LTC6600CS8-15	6HMX12	LTC2636IMS-HMX12	7HM12	LTC2637IDE-HM112	963A15	LT1963AES8-1.5
57L12	LTC2657CUFD-L12	6088	LTC6088HDHC	636LZ8	LTC2636CMS-LZ8	660015	LTC6600CS8-15	6HMX8	LTC2636CDE-HMX8	7HM18	LTC2637CDE-HM18	963A15	LT1963AEST-1.5
57L12	LTC2657HUF-L12	6088H	LTC6088HGN	636LZ8	LTC2636HMS-LZ8	660020	LTC6600CS8-20	6HMX8	LTC2636HDE-HMX8	7HM18	LTC2637HDE-HM18	963A18	LT1963AEST-1.8
57L12	LTC2657IUF-L12	60LH25	LT1460LH58-2.5	636LZ8	LTC2636IMS-LZ8	660025	LTC6600CS8-25	6HMX8	LTC2636IDE-HMX8	7HM18	LTC2637IDE-HM18	963A18	LT1963AEST-1.8
57L16	LTC2657CUFD-L16	60MH25	LT1460MH58-2.5	637HZ8	LTC2637CMS-HZ8	66005	LTC6600CS8-5	6HZ10	LTC2636CDE-HZ10	7HMX1	LTC2637CDE-HMX10	963A25	LT1963AEST-2.5
57L16	LTC2657HUF-L16	61A110	LT1461AIS8-10	637HZ8	LTC2637HMS-HZ8	660015	LTC6600IS8-5	6HZ10	LTC2636HDE-HZ10	7HMX1	LTC2637HDE-HMX10	963A25	LT1963AEST-2.5
57L16	LTC2657IUF-L16	61A125	LT1461AIS8-2.5	637HZ8	LTC2637IMS-HZ8	66011	LTC6601CUF-1	6HZ10	LTC2636IDE-HZ10	7HMX1	LTC2637IDE-HMX10	963A33	LT1963AES8-3.3
57L16	LTC2657CUFD-H16	61A133	LT1461AIS8-3.3	637LZ8	LTC2637CMS-LZ8	66011	LTC6601IUF-1	6HZ12	LTC2636CDE-HZ12	7HMX10	LTC2637CMS-HMX10	963A33	LT1963AEST-3.3
57L16	LTC2657HUF-H16	61B125	LT1461BIS8-2.5	637LZ8	LTC2637HMS-LZ8	66012	LTC6601CUF-2	6HZ12	LTC2636HDE-HZ12	7HMX10	LTC2637HMS-HMX10	963AMP	LT1963AMPS8
57L16	LTC2657IUF-H16	61B133	LT1461BIS8-3.3	637LZ8	LTC2637IMS-LZ8	66012	LTC6601IUF-2	6HM12	LTC2636IDE-HZ12	7HMX10	LTC2637IMS-HMX10	96318	LT1963IS8-1.8
60010	LT6600CDF-10	61C125	LT1461CIS8-2.5	640AH	LT1640AHIS8	6602	LTC6602CUF	6LMI10	LTC2636CMS-LM110	7HMX12	LTC2637CMS-HMX12	963125	LT1963IS88-2.5
60010	LT6600IDF-10	61C133	LT1461CIS8-3.3	640AL1	LT1640ALIS8	6602	LTC6602IUF	6LMI10	LTC2636HMS-LM110	7HMX12	LTC2637HMS-HMX12	963133	LT1963IS8-3.3
6002	LT6600CDHC	61DH25	LT1461DHS8-2.5	6412	LT6412CUF	6603	LTC6603CUF	6LMI10	LTC2636IMS-LM110	7HMX12	LTC2637IMS-HMX12	990110	LT1990IS810
6002	LT6600CGN	61DH33	LT1461DHS8-3.3	6412	LT6412IUF	6603	LTC6603IUF	6LMI12	LTC2636CMS-LM112	7HMX2	LTC2637CDE-HMX12	CXVT	LTC3548EKD-10
6002	LT6600IDHC	6200	LT6200CS8	641A16	LTC2641ACS8-16	66045	LT6604CUFF-5	6LMI12	LTC2636HMS-LM112	7HMX2	LTC2637HDE-HMX12	DBCT	LTC3502AEKC-3
60025	LT6600CDF-2.5	620010	LT6200CS8-10	641A16	LTC2641ACS8-16	66045	LT6604IUFF-5	6LMI12	LTC2636IMS-LM112	7HMX2	LTC2637IDE-HMX12	DBVT	LTC4098EPDC
60025	LT6600IDF-2.5	62005	LT6200CS8-5	643AH1	LTC1643AHIGN	660510	LTC6605CDJ-10	6LM18	LTC2636CDE-LM18	7HMX8	LTC2637CDE-HMX8	DNQT	LTC3582EPDC
6002I	LT66002IGN	6200I	LT6200IS8	643AL1	LTC1643AL-1CGN	660510	LTC6605IDJ-10	6LM18	LTC2636HDE-LM18	7HMX8	LTC2637HDE-HMX8	DQKT	LTC4098EPDC
6005	LT6005CDHC	6200I5	LT6200IS8-5	643AL1	LTC1643ALIGN	660514	LTC6605CDJ-14	6LM18	LTC2636IDE-LM18	7HMX8	LTC2637IDE-HMX8	DSZT	LTC4098EPDC-1
6005	LT6005CGN	6201	LT6201CS8	643L11	LTC1643L-1IGN	660514	LTC6605IDJ-14	6LMX10	LTC2636CMS-LMX10	7HZ10	LTC2637CDE-HZ10	DWJT	LTC6247CKC
6005	LT6005DHC	6201I	LT6201IS8	654H12	LTC2654CGN-H12	66057	LTC6605CDJ-7	6LMX10	LTC2636IMS-LMX10	7HZ10	LTC2637HDE-HZ10	DWJT	LTC6247KIC
6005	LT6005IDHC	6202	LT6202CS8</										

TOP MARKINGS (TOP MARK TO PART NUMBER)

LCFV	LTC2908CDD-B1	LCKF	LT6003HDC	LCNB	LTC3410ESC6-1.5	LCSG	LTC2630CDC-LZ12	LCWS	LTC2630HDC-HM12	LCZB	LTC2630CSC6-LM12	LDCQ	LT3592EDDB
LCFX	LTC2908IDDB-B1	LCKF	LT6003IDC	LCNC	LTC3410ESC6-1.8	LCSG	LTC2630HDC-LZ12	LCWS	LTC2630IDC-HM12	LCZB	LTC2630HSC6-LM12	LDCQ	LT3592IDDB
LCFZ	LT1934EDCB	LCKH	LT66102CDD	LCND	LT3539EDD-1	LCSG	LTC2630IDC-LZ12	LCWT	LTC2953CDD-1	LCZC	LTC2630ISC6-LM12	LDCS	LTC3539EDCB
LCFZ	LT1934IDCB	LCKH	LT66102HDD	LCNF	LTC4311CSC6	LCSD	LTC6410UCD-10	LCWT	LTC2953IDD-1	LCZC	LTC2630AISC6-HZ12	LDCV	LTC2918CDD-B1
LCGB	LTC3872ETS8	LCKH	LT66102IDD	LCNF	LTC4311SC6	LCSD	LTC6410IUD-10	LCWW	LTC3419EDD-1	LCZC	LTC2630AISC6-HZ12	LDCV	LTC2918HDD-B1
LCGB	LTC3872ITS8	LCKN	LTC2913CDD-1	LCNG	LTC4311CDC	LCSF	LT3480EED-1	LCWW	LTC3419IDD-1	LCZC	LTC2630AISC6-HZ12	LDCV	LTC2918IDDB-B1
LCGD	LTC6244HVCDD	LCKN	LTC2913HDD-1	LCNG	LTC4311IDC	LCSG	LTC3568EUD	LCWZ	LTC4151CDD	LCZC	LTC2630CSC6-HZ12	LDCX	LTC2916CDD-B1
LCGD	LT6244HVHDD	LCKN	LTC2913IDD-1	LCNJ	LTC2954CDD-B2	LCSH	LTC4558EUD	LCWZ	LTC4151IDD-1	LCZC	LTC2630HSC6-HZ12	LDCX	LTC2916HDD-B1
LCGD	LTC6244HVIDD	LCKP	LTC2913CDD-2	LCNJ	LTC2954IDD-B2	LCSJ	LTC4098EUD	LCCX	LTC4151CDD-1	LCZD	LTC2630AISC6-LZ10	LDCY	LTC3500HDD
LCGG	LTC3493EDCB	LCKP	LTC2913HDD-2	LCNM	LTC3526EUD-2	LCSK	LTC3873EDDB	LCCX	LTC4151IDD-1	LCZD	LTC2630AISC6-LZ10	LDDB	LT3582EUD
LCGH	LT3493IDCB	LCKP	LTC2913IDD-2	LCNN	LTC3526EDC-2	LCSM	LTC3873EDDB-5	LCCF	LTC4357CDD-B	LCZD	LTC2630AISC6-LZ10	LDDC	LT3495EDDB-1D
LCGJ	LT3493EDCB-3	LCKQ	LTC4069EDC-4.4	LCNP	LTC3526EDC-2	LCSM	LTC3873IDDB-5	LCCF	LTC4357HDCB	LCZD	LTC2630AISC6-LZ10	LDDC	LT3495EDDB-1D
LCGK	LT3493IDCB-3	LCKR	LTC4065EDC-4.4	LCON	LT3470HDD-B	LCSQ	LT3591EDDB-2	LCCF	LTC4357IDCB	LCZD	LTC2630CSC6-LZ10	LDDD	LT3495EDDB-1D
LCGM	LT1933IDCB	LCKS	LTC4065LXEDC	LCONV	LTC2491CDC	LCSR	LTC3545EUD	LCCX	LTC4443EUD	LCZD	LTC2630AISC6-LZ10	LDDF	LT3495EDDB-D
LCGN	LT1933IDCB	LCKT	LTC6930CDCB-4.19	LCONV	LTC2491IDC	LCSR	LTC3545IUD	LCCX	LTC4443IDD	LCZD	LTC2630ISC6-LZ10	LDDG	LTC3528EDDB
LCGP	LT6411CUD	LCKT	LTC6930HDCB-8.00	LCONW	LTC2491CDD-B	LCSS	LTC3526LEDC	LCCJ	LTC4500CDD-B	LCZF	LTC2630AISC6-LM10	LDDH	LTC3407AIDD-2
LCGP	LT6411IUD	LCKT	LTC6930IDCB-4.19	LCONW	LTC2491IDDB	LCSM	LTC3526LEDC	LCCJ	LTC4500IDB	LCZF	LTC2630AISC6-LM10	LDDH	LTC3407AIDD-2
LCGR	LTC2858CDD-1	LCKV	LTC6930CDCB-5.00	LCNZ	LT3590EDC	LCSV	LTC5575EUD-2	LCCM	LTC3544EUD	LCZF	LTC2630AISC6-LM10	LDDK	LTC3527EUD
LCGR	LTC2858HDD-1	LCKV	LTC6930HDCB-5.00	LCNB	LTC3590ESC8	LCSW	LT5575EUD-5	LCCM	LTC3544IUD	LCZF	LTC2630CSC6-LM10	LDDM	LTC6420CUDC-20
LCGR	LTC2858IDD-1	LCKV	LTC6930IDCB-5.00	LCPC	LTC3547EDDB-1	LCSX	LT5575EUD-7	LCCN	LTC3851EUD	LCZF	LTC2630HSC6-LM10	LDDM	LTC6420IUDC-20
LCGS	LT3493AIDCB	LCKW	LTC6930CDDC-7.37	LCPC	LTC3547IDDB-1	LCSY	LT5575EUD-9	LCCN	LTC3851IUD	LCZF	LTC2630ISC6-LM10	LDDN	LTC6421CUDC-20
LCGT	LT3497EDDB	LCKW	LTC6930HDCB-7.37	LCPD	LTC3547BEDDB	LCSZ	LTC3563EUD	LCCP	LTC3527EUD-1	LCZG	LTC2630AISC6-HZ10	LDDN	LTC6421IUDC-20
LCGV	LT3493EDCB-4	LCKX	LTC6930IDCB-8.00	LCPD	LTC3547BIDD	LCTC	LTC6406EUD	LCCQ	LTC4442EDCB-1	LCZG	LTC2630AISC6-HZ10	LDDP	LTC3545EUD-1
LCGW	LT3503EDCB	LCKX	LTC6930HDCB-8.00	LCPF	LTC3547BEDDB-1	LCTC	LTC6406IUD	LCCQ	LTC4442IDCB-1	LCZG	LTC2630AISC6-HZ10	LDDP	LTC3545EUD-1
LCGX	LTC3203BEDD	LCKX	LTC6930HDCB-8.00	LCPF	LTC3547HIDDB-1	LCTF	LT6105CDDC	LCCX	LTC3210EPP-1	LCZG	LTC2630CSC6-HZ10	LDDR	LTC3528EUD-2
LCGY	LTC3203BEDD-1	LCKX	LTC6930IDCB-8.00	LCPG	LT3591EDDB	LCTF	LT6105HDCB	LCCW	LT1965EUD	LCZG	LTC2630HSC6-HZ10	LDDR	LT3650EUD-4.2
LCHB	LT3505EUD	LCKY	LTC6930CDDC-8.19	LCPP	LTC4413EED-1	LCTF	LT6105IDCB	LCCW	LT1965IDC	LCZG	LTC2630ISC6-HZ10	LDDS	LT3650IDD-4.2
LCHC	LT3505IDD	LCKY	LTC6930HDCB-8.19	LCQP	LTC4413EED-2	LCTG	LTC4442EDCB	LCCY	LTC3580EUD	LCZH	LTC2630AISC6-HM10	LDDT	LTC4098EUDC
LCHD	LT3505EDCB	LCLG	LTC4095EDC	LCPV	LTC3562EUD	LCTG	LTC4442IDCB	LCCY	LT3580IDD	LCZH	LTC2630AISC6-HM10	LDDW	LTC3025EDC-1
LCHF	LT3505IDCB	LCLH	LT3585EDDB-2	LCPW	LTC3217EUD-1	LCTH	LTC4442HDCB	LCYB	LTC3230EUD	LCZH	LTC2630AISC6-HM10	LDDW	LTC3025IDC-1
LCHG	LT6559CUD	LCLH	LT3585EDDB-2	LCPX	LT3467EUD	LCTP	LT3480EUD	LCYB	LTC3230IUD	LCZH	LTC2630CSC6-HM10	LDDX	LTC4447EUD-1
LCHG	LT6559IUD	LCLJ	LT3585EDDB-1	LCPX	LT3467IDD	LCTP	LT3480IDD	LCYC	LTC3523EUD	LCZH	LTC2630HSC6-HM10	LDDX	LTC4447IDD-1
LCHH	LT6559HVDCDD	LCLK	LT3585EDDB-0	LCPY	LTC3525LESC6-3	LCTQ	LT3480HDD	LCYD	LTC3528EDDB	LCZH	LTC2630ISC6-HM10	LDDY	LTC6416CDD-B
LCHH	LT6559HVDCDD	LCLM	LTC4096KEDD	LCQZ	LTC3525LESC6-3.3	LCTR	LTC2450CDD	LCYD	LTC3685EUD	LCZJ	LTC6702IDC	LDDY	LTC6416IDD
LCHJ	LT3491EUD	LCLN	LTC3544BEUD	LCLT	LTC3502AEDC	LCTR	LTC2450IDC	LCYD	LTC3685IDD	LCZJ	LTC6702HDC	LDFG	LTC6412IUD-01
LCHM	LT3014BEDD	LCLT	LT3502AEDC	LCLT	LT3502AIDC	LCTS	LTC4097XEDDB	LCYH	LTC3685IUD	LCZJ	LTC6702IDC	LDFH	LTC6412IUD-02
LCHM	LT3014BIDD	LCLT	LT3502EDC	LCLV	LT3502IDC	LCTW	LT6703CDD-3	LCYH	LTC3685IUD	LCZM	LTC2641CDD-12	LDFJ	LTC6412IUD-03
LCHP	LT3014BHVEDD	LCLV	LT3502IDC	LCLV	LT3502IDC	LCTW	LT6703HDC-3	LCYK	LTC3680EUD	LCZM	LTC2641IDD-12	LDFJ	LT1938EDD
LCHP	LT3014BHVIDD	LCLV	LT3502IDD	LCLV	LT3502IDC	LCTW	LT6703IDC-3	LCYK	LTC3680IDD	LCZN	LTC2641CDD-14	LDFJ	LT1938IDD
LCHQ	LTC3541EED-2	LCLW	LTC6404HUD-1	LCLW	LTC6404HUD-1	LCTX	LTC6087CDD	LCYN	LTC4443EED-1	LCZN	LTC2641IDD-14	LDBG	LTC3693EUD
LCHR	LTC3541EED-3	LCLW	LTC6404HUD-1	LCLW	LTC6404HUD-1	LCTX	LTC6087HDD	LCYN	LTC4443IDD-1	LCPZ	LTC2641ACDD-16	LDBG	LTC3693IDD
LCHS	LTC3218EDDB	LCLX	LTC6404IUD-1	LCLX	LTC6404IUD-1	LCTZ	LTC6087HDD	LCYP	LTC4078XEDD	LCZP	LTC2641AIDD-16	LDBG	LT3755EUD
LCHT	LTC3872EDDB	LCLX	LTC6404IUD-2	LCLX	LTC6404IUD-2	LCCV	LTC6102HVHDD	LCYQ	LTC2304CDD	LCZP	LTC2641CDD-16	LDBG	LT3755IUD
LCHV	LTC3410ESC6-1.2	LCLX	LTC6404IUD-2	LCLX	LTC6404IUD-2	LCCV	LTC6102HVHDD	LCYQ	LTC2304IDD	LCZP	LTC2641IDD-16	LDFG	LTC2917CDD-B1
LCHW	LTC3526EDC	LCLY	LTC6404HUD-4	LCLY	LTC6404HUD-4	LCVC	LTC6102HVIDD	LCYR	LTC3225EDDB	LCZT	LTC2642CDD-12	LDFG	LTC2917HDD-B1
LCHX	LTC3210EUD-2	LCLY	LTC6404IUD-4	LCLY	LTC6404IUD-4	LCVG	LTC5538EUD	LCYT	LTC3483EUD	LCZT	LTC2642IDD-12	LDFG	LTC2917IDDB-A1
LCHY	LTC3210EUD-3	LCLZ	LTC6404CUD-1M4	LCLZ	LTC6404CUD-1M4	LCVG	LTC5538IDD	LCYT	LTC3483IDD	LCZV	LTC2642CDD-14	LDFG	LTC2918CDD-B1
LCHZ	LTC3410BESC6-1.875	LCLZ	LTC6404CUD-1M4	LCLZ	LTC6404CUD-1M4	LCVR	LTC2915CDD-B1	LCYV	LTC2630AISC6-LZ8	LCZV	LTC2642IDD-14	LDFG	LTC2918HDD-B1
LCLB	LTC3407EED-3	LCLZ	LTC6404IUD-1M4	LCLZ	LTC6404IUD-1M4	LCVR	LTC2915HDD-B1	LCYV	LTC2630AISC6-LZ8	LCZW	LTC2642ACDD-16	LDFG	LTC2918IDDB-A1
LCLD	LTC3407EED-4	LCMB	LTC3559EUD	LCMB	LTC3559EUD	LCVT	LTC3684EUD	LCYV	LTC2630CSC6-LZ8	LCZW	LTC2642AIDD-16	LDFG	LTC2451CDD-B
LCLF	LTC3410ESC6-1.65	LCMD	LTC2857CDD-1	LCMD	LTC2857CDD-1	LCVT	LTC3684IDD	LCYV	LTC2630HSC6-LZ8	LCZW	LTC2642IDD-16	LDFG	LTC2451IDDB
LCLG	LTC2954CDD-B1	LCMD	LTC2857HDD-1	LCMD	LTC2857HDD-1	LCVV	LTC4080XEDD	LCYV	LTC2630ISC6-LZ8	LCZV	LTC2642IDD-16	LDFG	LTC2919CDD-B2.5
LCLG	LT2954IADD-B1	LCMD	LTC2857IDD-1	LCMD	LTC2857IDD-1	LCVV	LTC4080XEDD	LCYV	LTC2630AISC6-LM8	LCZV	LTC2642IDD-16	LDFG	LTC2919HDD-B2.5
LCLJ	LTC2954IADD-1	LCMG	LTC2856CDD-1	LCMG	LTC2856CDD-1	LCWD	LTC2851CDD	LCYW	LTC2630AISC6-LM8	LCZV	LTC2642IDD-16	LDFG	LTC2919IDD-B2.5
LCLJ	LTC3561EED	LCMG	LTC2856HDD-1	LCMG	LTC2856HDD-1	LCWD	LTC2851HDD	LCYW	LTC2630AISC6-LM8	LCZT	LTC2642CDD-12	LDFG	LTC2917HDD-B1
LCLJ	LTC3805EUD	LCMG	LTC2856IDD-1	LCMG	LTC2856IDD-1	LCWD	LTC2851IDD	LCYW	LTC2630AISC6-LM8	LCZT	LTC2642IDD-12	LDFG	LTC2917IDDB-A1
LCLM	LTC3805IDD	LCMJ	LTC2856IDD-2	LCMJ	LTC2856IDD-2	LCWG	LTC3580EDCB	LCYX	LTC2630CSC6-LM8	LCZV	LTC2642CDD-14	LDFG	LTC2918CDD-B1
LCLM	LTC3805IUD	LCMJ	LTC2856CDD-2	LCMJ	LTC2856CDD-2	LCWG	LTC3580IDCB	LCYX	LTC2630HSC6-LM8	LCZV	LTC2642CDD-14	LDFG	LTC2918HDD-B1
LCLP	LTC6081CDD	LCMJ	LTC2856HDD-2	LCMJ	LTC2856HDD-2	LCWH	LTC3500EUD	LCYX	LTC2630AISC6-LM8	LCZV	LTC2642CDD-14	LDFG	LTC2918IDDB-A1
LCLP	LTC6081IDD	LCMJ	LTC2856IDD-2	LCMJ	LTC2856IDD-2	LCWH	LTC3500EUD	LCYX	LTC2630AISC6-LM8	LCZV	LTC2642CDD-14	LDFG	LTC2918IDDB-A1
LCLQ	LT5570IDD	LCMM	LTC2857CDD-2	LCMM	LTC2857CDD-2	LCWM	LTC3500IDD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2451CDD-B
LCLV	LTC3219EUD	LCMM	LTC2857HDD-2	LCMM	LTC2857HDD-2	LCWP	LTC3500EUD	LCYX	LTC2630CSC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2451IDDB
LCLV	LTC2912CDD-B1	LCMM	LTC2857IDD-2	LCMM	LTC2857IDD-2	LCWP	LTC3500EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919CDD-B2.5
LCLZ	LTC2912HDD-B1	LCMR	LTC2858CDD-2	LCMR	LTC2858CDD-2	LCYV	LTC3684EUD	LCYX	LTC2630HSC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919HDD-B2.5
LCLZ	LTC2912IDDB-1	LCMR	LTC2858HDD-2	LCMR	LTC2858HDD-2	LCYV	LTC3684IDD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKB	LTC2912CDD-B2	LCMR	LTC2858IDD-2	LCMR	LTC2858IDD-2	LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKB	LTC2912HDD-B2	LCMS	LTC3822EDD-1	LCMS	LTC3822EDD-1	LCYV	LTC3684IDD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKB	LTC2912IDDB-2	LCMV	LTC3502AEDB	LCMV	LTC3502AEDB	LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKC	LTC2912CDD-B3	LCMV	LTC3502AIDD-B	LCMV	LTC3502AIDD-B	LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKC	LTC2912HDD-B3	LCMW	LTC3502IDDB	LCMW	LTC3502IDDB	LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKD	LT3467AEDDB	LCMX	LTC3410BESC6-1.2	LCMX	LTC3410BESC6-1.2	LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKD	LT3467AIDD-B	LCMY	LTC3410BESC6-1.5	LCMY	LTC3410BESC6-1.5	LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
LCKF	LT6003CDD	LCMZ	LTC3410BESC6-1.8	LCMZ	LTC3410BESC6-1.8	LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5
						LCYV	LTC3684EUD	LCYX	LTC2630AISC6-HZ8	LCZV	LTC2642CDD-16	LDFG	LTC2919IDDB-B2.5

Amps, Refs, Filters, Comps
Power Management
Data Conversion
Interface
RF/Wireless
Space, Military, Harsh Envir.
Reference Material



TOP MARKINGS (TOP MARK TO PART NUMBER)

Reference Material	LDJW	LT1913EDD	LDNV	LTC4224CDDB-2	LDRH	LTC2634IUD-HMX10	LDWG	LTC6246IDC	LDZS	LTC2635IUD-HZ8	LFHF	LT3008EDC-1.5	LFNY	LT6656BCDC-5
	LDJW	LT1913IDD	LDNV	LTC4224IDDB-2	LDRJ	LTC2634CUD-HMI10	LDWP	LTC4361CDC-1	LDZT	LTC2635CUD-HMX8	LFHF	LT3008IDC-1.5	LFNY	LT6656BIDC-5
	LDJX	LT1468ACDD	LDNZ	LTC3528EDDB-2	LDRJ	LTC2634HUD-HMI10	LDWP	LTC4361IDC-1	LDZT	LTC2635HUD-HMX8	LFHH	LT3008EDC-1.8	LFNY	LT6656EDDB
	LDJX	LT1468AIDD	LDPB	LTC3528BEDDB-2	LDRJ	LTC2634HUD-HMI10	LDWR	LTC3085MPDCB	LDZT	LTC2635HUD-HMX8	LFHH	LT3008IDC-1.8	LFPD	LT4070IDDB
	LDJX	LT1468CDD	LDPK	LTC3854EDDB	LDRK	LTC2634CUD-LZ8	LDWV	LTC3535EDD	LDZV	LTC2635CUD-HMI8	LFHK	LT3008EDC-2.5	LFPT	LTC3604EUD
	LDJX	LT1468IDD	LDPK	LTC3854IDDB	LDRK	LTC2634HUD-LZ8	LDXM	LTC2462CDD	LDZV	LTC2635HUD-HMI8	LFHK	LT3008IDC-2.5	LFM10	LTC2636CDE-LMI10
	LDJY	LTC4078EED	LDPD	LT3587EUDC-1	LDRK	LTC2634IUD-LZ8	LDXM	LTC2462IDD	LDZV	LTC2635IUD-HMI8	LFHN	LT3008EDC-3.3	LFM10	LTC2636HDE-LMI10
	LDJZ	LT1939EDD	LDPF	LTC3459EDC-1	LDRM	LTC2634CUD-LMX8	LDXQ	LT1994MPDD	LFBT	LTC2635CUD-LMO12	LFHN	LT3008IDC-3.3	LFM10	LTC2636IDE-LMI10
	LDJZ	LT1939IDD	LDPF	LTC3459IDC-1	LDRM	LTC2634IUD-LMX8	LDXR	LT3972EDD	LFBT	LTC2635HUD-LMO12	LFHQ	LT3008EDC-5	LFM12	LTC2636CDE-LMI12
	LDKB	LTC3561AEDD	LDPG	LTC3459EDCB-1	LDRM	LTC2634IUD-LMX8	LDXR	LT3972IDD	LFBT	LTC2635IUD-LMO12	LFHQ	LT3008IDC-5	LFM12	LTC2636HDE-LMI12
	LDKB	LTC3561AIDD	LDPG	LTC3459IDCB-2	LDRN	LTC2634HUD-LM18	LDRN	LTC3459EDD-8.2	LFBV	LTC2635CUD-LMO10	LFHT	LT3652EDD	LFM12	LTC2636IDE-LMI12
	LDKC	LT3009EDC-1.8	LDPH	LTC3539EDCB-2	LDRN	LTC2634HUD-LM18	LDRN	LTC3650IDD-8.2	LFHT	LTC2635HUD-LMO10	LFHT	LT3652IDD	LFM12	LTC2636CDE-LMX10
	LDKC	LT3009IDC-1.8	LDPJ	LTC4352CDD	LDRN	LTC2634IUD-LM18	LDRN	LTC6102CDD-1	LFHW	LTC2635IUD-LMO10	LFHW	LTC2935CDC-3	LFM10	LTC2636HDE-LMX10
	LDKD	LT3009EDC-3.3	LDPJ	LTC4352IDD	LDRP	LTC2634CUD-HZ8	LDRP	LTC6102HDD-1	LFHW	LTC2635CUD-LMO8	LFHW	LT3008EDC-3	LFM10	LTC2636IDE-LMX10
	LDKD	LT3009IDC-3.3	LDPM	LT3080EDD-1	LDRP	LTC2634HUD-HZ8	LDRP	LTC6102IDD-1	LFHY	LTC2635HUD-LMO8	LFHY	LT3008IDC-5	LFM12	LTC2636CDE-LMX12
LDKF	LT3009EDC-5	LDPP	LT2940CDD	LDRP	LTC2634IUD-HZ8	LDYD	LTC3127EDD	LFHW	LTC2635IUD-LMO8	LFHY	LT3009IDC-4	LFM12	LTC2636HDE-LMX12	
LDKF	LT3009IDC-5	LDPP	LT2940IDD	LDRQ	LTC2634CUD-HMX8	LDYK	LT3582EDDB	LFCB	LT3582AEDDB	LFJC	LTC3601EUD	LFM12	LTC2636IDE-LMX12	
LDKG	LT3009ESC8-1.8	LDQP	LTC3025EDC-4	LDRQ	LTC2634HUD-HMX8	LDYM	LTC3642EDD-3.3	LFCF	LT8410EDC-1	LFJC	LTC3601IUD	LTA1	LT4351IMS	
LDKH	LT3009ESC8-3.3	LDPQ	LTC3025IDD-4	LDRQ	LTC3025IDC-4	LDYM	LTC3642IDD-3.3	LFCF	LT8410IDC-1	LFJD	LT3092EDD	LTA2	LT4412ES6	
LDKJ	LT3009ESC8-5	LDRP	LT3470EAEDDB	LDRR	LTC2634CUD-HMI8	LDYP	LTC3642EDD-5	LFCZ	LT3970EDDB	LFJD	LT3092IDD	LTA2	LT4412IS6	
LDKM	LT5581IDDB	LDRR	LT3470AIDDB	LDRR	LTC2634HUD-HMI8	LDYP	LTC3642IDD-5	LFCZ	LT3970IDDB	LFJJ	LTC3620EDC	LTA3	LT6210CS6	
LDKP	LTC6405CUD	LDRR	LT3008EDC	LDRR	LTC2634IUD-HMI8	LDYS	LTC3554EUD	LFDC	LT8415EDDB	LFJK	LTC3620EDC-1	LTA3	LT6210IS6	
LDKP	LTC6405IUD	LDRS	LTC3008IDC	LDRS	LTC4082EDD10	LDYS	LTC3554IUD	LFDC	LT8415IDDB	LFJN	LTC4362CDCB-2	LTA4	LTC2920-2IMS8	
LDKQ	LT3011EDD	LDS	LTC2935CDC-1	LDS	LT3495EDD	LDYT	LTC3082EDD	LFDQ	LTC2460CDD	LFJN	LTC4362IDCB-2	LTA5	LTC3406ES5	
LDKQ	LT3011HDD	LDS	LTC2935IDC-1	LDS	LT3495BEDDB	LDYT	LT3082IDD	LFDQ	LTC2460IDD	LFJP	LT3580EDD-1	LTA6	LTC1663-8CMS8	
LDKQ	LT3011IDD	LDS	LTC2935CDC-2	LDSV	LT3495EDDB	LDYW	LT3757EDD	LFDV	LTC3631EDD	LFJP	LT3580IDD-1	LTA7	LTC1663-BIMS8	
LDKT	LTC2934CDC-1	LDSV	LTC2935IDC-2	LDSW	LT3495BEDDB-1	LDYW	LT3757IDD	LFDV	LTC3631IDD	LFJT	LT6350CDD	LTA8	LTC1694IS5	
LDKT	LTC2934IDC-1	LDSY	LTC3559EUD-1	LDSY	LT1468ACDD-2	LDYY	LTC2635CUD-LZ12	LFDW	LTC3682EDD	LFJT	LT6350HDD	LTA9	LTC1694-1IS5	
LDKV	LTC2934CDC-2	LDSY	LTC3569EUD	LDSY	LT1468AIDD-2	LDYY	LTC2635HUD-LZ12	LFDW	LT3682IDD	LFJZ	LT6350IDD	LTA9	LT1460CCMS8-2.5	
LDKV	LTC2934IDC-2	LDSY	LTC3569IUD	LDSY	LT1468CDD-2	LDYY	LTC2635IUD-LZ12	LFDZ	LT3592HVEDDB	LFJZ	LTC4082EDD	LTA9	LT6221CMS8	
LDKW	LT1965EDD-1.5	LDSY	LTC4360CDD	LDSY	LT1468IDD-2	LDYZ	LTC2635CUD-LMX12	LFDZ	LT3592HVIDDB	LFJZ	LT3755EUD-2	LTA9	LTC4251-2IS6	
LDKW	LT1965IDD-1.5	LDSY	LTC4360IDD	LDSY	LT3060EDC	LDYZ	LTC2635HUD-LMX12	LFFC	LTC3526LED-2	LFJZ	LT3755IUD-2	LTA9	LT1460FCMS8-2.5	
LDKY	LT1965EDD-1.8	LDSY	LTC4078EDD-2	LDT	LTC3060IDC	LDYZ	LTC2635IUD-LMX12	LFFD	LTC3526BEDC-2	LFKB	LT3756EUD-2	LTAB	LTC3407EMSE	
LDKY	LT1965IDD-1.8	LDSY	LT3495EDDB12	LDT	LTC3495EDC	LDBZ	LTC2635CUD-LMI12	LFH	LTC3619BEDD	LFKB	LT3756IUD-2	LTAB	LTC4056EMS8-4.2	
LDMB	LT1965EDD-2.5	LDDQ	LTC3085EDCB	LDTG	LTC3459IDC	LDBZ	LTC2635HUD-LMI12	LFH	LTC3619BEDD	LFKC	LTC4449EDCB	LTAB	LTC3251EMSE-1.5	
LDMB	LT1965IDD-2.5	LDDQ	LT3085IDCB	LDTJ	LTC3642EDD	LDBZ	LTC2635IUD-LMI12	LFHM	LTC3689EUD-5	LFKC	LT3689EUD-5	LTABF	LTC4300A-1CMS8	
LDMC	LT1965EDD-3.3	LDDQ	LT8410EDC	LDTJ	LTC3642IDD	LDBZ	LTC2635CUD-HZ12	LFHM	LTC3689HUD-5	LFKM	LT3689HUD-5	LTABG	LTC4300A-1IMS8	
LDMC	LT1965IDD-3.3	LDDQ	LT8410IDC	LDTK	LTC3878EUD	LDBZ	LTC2635HUD-HZ12	LFHM	LTC3689IUD-5	LFKM	LTC3619IUD	LTABH	LTC4300A-1CMS	
LDMC	LTC2930CDD	LDDQ	LTC3025EDC-3	LDTM	LTC3878IUD	LDBZ	LTC2635IUD-HZ12	LFHN	LTC3631EDD-3.3	LFKR	LTC3851EUD-2	LTABH	LTC4214-1IMS	
LDMC	LTC2930HDD	LDDQ	LTC3025IDC-3	LDTM	LTC3879EUD	LDBZ	LTC2635CUD-HMX12	LFHN	LTC3631IDD-3.3	LFKV	LTC3548AEDD	LTABK	LTC4214-2CMS	
LDMC	LTC2930IDD	LDDQ	LTC3612EUDC	LDTN	LTC3879IUD	LDBZ	LTC2635HUD-HMX12	LFHO	LTC3631EDD-5	LFKV	LTC3548IUD	LTABL	LTC4214-2IMS	
LDMK	LTC3025EDC-2	LDDQ	LTC3612IUDC	LDTN	LT3571EUD	LDBZ	LTC2635IUD-HMX12	LFHO	LTC3631IDD-5	LFMP	LTC4361CDC-2	LTABN	LTC6903CMS8	
LDMK	LTC3025IDC-2	LDDQ	LTC2634CUD-LZ12	LDTN	LT3571IUD	LDBZ	LTC2635CUD-HMI12	LFHS	LTC3225EDDB-1	LFMP	LTC4361IDC-2	LTABN	LTC6903HMS8	
LDMK	LTC3459EDCB	LDDQ	LTC2634HUD-LZ12	LDTQ	LTC3564EDCB	LDBZ	LTC2635HUD-HMI12	LFGB	LTC3632EDD	LFMQ	LT4425EDD	LTABN	LTC6903IMS8	
LDMQ	LT3756EUD	LDDQ	LTC2634IUD-LZ12	LDTQ	LTC3564IDCB	LDBZ	LTC2635IUD-HMI12	LFGB	LTC3632IDD	LFMS	LTC4070EDC	LTABY	LTC4257IMS8	
LDMQ	LT3756IUD	LDDQ	LTC2634CUD-LMX12	LDTT	LTC4224CDDB-1	LDBZ	LTC2635CUD-LZ10	LFGC	LT3050EDDB	LFMS	LTC4070IDD	LTABY	LTC4302CMS-2	
LDMR	LT3756EUD-1	LDDQ	LTC2634IUD-LMX12	LDTT	LTC4224IDDB-1	LDBZ	LTC2635IUD-LZ10	LFGC	LT3050IDDB	LFMW	LT3663EDCB-3.3	LTA9	LTC4302IMS-2	
LDMR	LT3756IUD-1	LDDQ	LTC2634CUD-LMX12	LDTW	LT3009EDC-1.2	LDBZ	LTC2635IUD-LZ10	LFGG	LTC2461IDD	LFMW	LT3663IDCB-3.3	LTA9	LT3469ETS8	
LDMS	LT3755EUD-1	LDDQ	LTC2634HUD-LMI12	LDTW	LTC3009IDC-1.2	LDBZ	LTC2635CUD-LMX10	LFGF	LT2461IDD	LFMY	LT3663IDCB-5	LTA9	LT6200CS6-5	
LDMS	LT3755IUD-1	LDDQ	LTC2634IUD-LMI12	LDTX	LT3009ESC8-1.2	LDBZ	LTC2635HUD-LMX10	LFGG	LTC2463CDD	LFMY	LT3663IDCB-5	LTA9	LT6200S6-5	
LDMW	LTC2919CDDDB-3.3	LDDY	LTC2634CUD-HZ12	LDTY	LT3009EDC-2.5	LDBZ	LTC2635IUD-LMX10	LFGG	LTC2463IDD	LFNC	LTC4362CDCB-1	LTA9	LT6200CS6-10	
LDMW	LTC2919HDDDB-3.3	LDDY	LTC2634HUD-HZ12	LDTY	LT3009IDC-2.5	LDBZ	LTC2635CUD-LMI10	LFGH	LT3755AEDD	LFNC	LTC4362IDCB-1	LTA9	LT6200S6-10	
LDMX	LTC2919CDDDB-5	LDDY	LTC2634IUD-HZ12	LDTZ	LT3009ESC8-2.5	LDBZ	LTC2635HUD-LMI10	LFHG	LTC3755AID	LFNM	LT6656ACDC-1.25	LTA9	LTC4300A-2CMS8	
LDMX	LTC2919HDDDB-5	LDDY	LTC2634IUD-HZ12	LDBV	LT3009EDC-1.5	LDBZ	LTC2635IUD-LMI10	LFHJ	LT3756AEDD	LFNM	LT6656AIDC-1.25	LTA9	LTC4300A-2IMS8	
LDMX	LTC2919IDDB-5	LDDQ	LTC2634CUD-HMX12	LDBV	LT3009IDC-1.5	LDBZ	LTC2635CUD-HZ10	LFHJ	LT3756IUD	LFNM	LT6656BDC-1.25	LTA9	LTC3467IS6	
LDMX	LTC2919IDDB-5	LDDQ	LTC2634HUD-HMX12	LDBV	LT3009ESC8-1.5	LDBZ	LTC2635IUD-HZ10	LFHJ	LT3756IUD	LFNM	LT6656BDC-1.25	LTA9	LT3467IS6	
LDMZ	LTC4310CDD	LDDQ	LTC2634IUD-HMX12	LDBV	LTC3582EUD-5	LDBZ	LTC2635IUD-HZ10	LFHJ	LT3756IUD	LFNP	LT6656ACDC-2.048	LTA9	LTC1992-1CMS8	
LDMZ	LTC4310IDD	LDRB	LTC2634CUD-HMI12	LDBVH	LT3582EUD-12	LDBZ	LTC2635CUD-HMX10	LFGR	LT3650EDD-8.4	LFNP	LT6656AIDC-2.048	LTA9	LTC1992-5CMS8	
LDNB	LT3460EDC-1	LDRB	LTC2634IUD-HMI12	LDBK	LTC3663EDCB	LDBZ	LTC2635HUD-HMX10	LFGR	LT3650IDD-8.4	LFNP	LT6656BDC-2.048	LTA9	LTC1992-10CMS8	
LDNC	LT3587EUD	LDRB	LTC2634IUD-HMI12	LDBK	LTC3663IDCB	LDBZ	LTC2635IUD-HMX10	LFGS	LTC3833EUD	LFNP	LT6656BIDC-2.048	LTA9	LTC1992-1IMS8	
LDND	LT3689EUD	LDRB	LTC2634CUD-LZ10	LDBM	LT1964EDD	LDBZ	LTC2635CUD-HMI10	LFGS	LTC3833IUD	LFNR	LT6656AIDC-3	LTA9	LTC1992-5IMS8	
LDND	LT3689IUD	LDRB	LTC2634HUD-LZ10	LDBM	LT1964IDD	LDBZ	LTC2635IUD-HMI10	LFGT	LTC3833EUDC	LFNR	LT6656AIDC-3	LTA9	LTC1992-10IMS8	
LDND	LT3689IUD	LDRB	LTC2634CUD-LMX10	LDBN	LTC2942CDCB	LDBZ	LTC2635IUD-HMI10	LFGT	LTC3833IUDC	LFNR	LT6656BDC-3	LTA9	LTC6910-2CTS8	
LDNH	LTC6084CDD	LDRB	LTC2634IUD-LMI10	LDBN	LTC2942IDCB	LDBZ	LTC2635CUD-LZ8	LFHV	LT2472IDD	LFNR	LT6656BDC-3	LTA9	LTC6910-2HTS8	
LDNH	LTC6084HDD	LDRD	LTC2634HUD-LMX10	LDBP	LT3495BEDDB12	LDBZ	LTC2635IUD-LZ8	LFHX	LT6656ACDC-2.5	LFNT	LT6656ACDC-3.3	LTA9	LTC6910-2IS8	
LDNJ	LTC2452CDD	LDRD	LTC2634IUD-LMX10	LDBP	LT3495BEDDB12-1	LDBZ	LTC2635CUD-LZ8	LFHX	LT6656BDC-2.5	LFNT	LT6656ACDC-3.3	LTA9	LTC3801ES6	
LDNJ	LTC2452IDD	LDRF	LTC2634CUD-LMI10	LDBV	LT6700MPDCB-1	LDBZ	LTC2635IUD-LMX8	LFHY	LT6656BIDC-2.5	LFNT	LT6656BDC-3.3	LTA9	LTC6910-3CTS8	
LDNK	LT3758EDD	LDRF	LTC2634IUD-LMI10	LDBV	LT6700MPDCB-2	LDBZ	LTC2635HUD-LMX8	LFHY	LT6656BIDC-2.5	LFNT	LT6656BIDC-3.3	LTA9	LTC6910-3HTS8	
LDNK	LT3758IDD	LDRG	LTC2634CUD-HZ10	LDBV	LT6700MPDCB-3	LDBZ	LTC2635IUD-LMX8	LFHY	LT6656BIDC-2.5	LFNV	LT6656AIDC-4.096	LTA9	LTC3803ES6	
LDNR	LTC3565EDD	LDRG	LTC2634HUD-HZ10	LDBX	LTC1540MPDD	LDBZ	LTC2635CUD-LMI8	LFHZ	LTC3409AEDD	LFNV	LT6656AIDC-4.096	LTA9	LT1720IMS8	
LDNR	LTC3565IDD	LDRG	LTC2634IUD-HZ10	LDBX	LTC1540PDD	LDBZ	LTC2635IUD-LM18	LFHB	LT6656AIDC-4.096	LFNV	LT6656AIDC-4.096	LTA9	LTC2602CMS8	
LDNT	LTC3851EUD-1	LDRH	LTC2634CUD-HMX10	LDBX	LTC3542EDC-1	LDBZ	LTC2635CUD-HZ8	LFHC	LT3008EDC-1.2	LFNY	LT6656ACDC-5	LTA9	LTC2602IMS8	
LDNT	LTC3851IUD-1	LDRH	LTC2634HUD-HMX10	LDBX	LTC6246CDC	LDBZ	LTC2635IUD-HZ8	LFHC	LT3008IDC-1.2	LFNY	LT6656AIDC-5	LTA9	LTC2621CMS8	



TOP MARKINGS (TOP MARK TO PART NUMBER)

LTADA LTC2612IMS8	LTAFAW LTC2903IS6-A1	LTB4 LTC3251EMSE	LTBJ LT1394IMS8	LTBPF LTC3803ES6-5	LTBVK LT3485EMSE-1	LTCD5 LT1761IS5-1.2
LTADB LTC2622CMS8	LTAFAF LTC4252A-1CMS	LTB5 LTC6910-1CTS8	LTBJB LTC3026EMSE	LTBPH LTC6905CS5-80	LTBVM LT3485EMSE-2	LTCDW LTC2641ACMS8
LTADC LTC2622IMS8	LTAFAFX LTC4252A-1IMS	LTB5 LTC6910-1HTS8	LTBJC LTC6905ACS5	LTBPB LTC6905HS5-80	LTBVT LT3481EMSE	LTCDW LTC2641ACMS8
LTADE LTC6900HMS8	LTAFAZ LTC1992-1HMS8	LTB6 LTC6910-1TMS8	LTBJC LTC6905AHS5	LTBPH LTC6905IS5-80	LTBVT LT3481EMSE	LTCDW LTC2641BCMS8
LTADF LTC1403ACMSE	LTAG LTC1460FOMS8-5	LTB6 LTC2920-2CMS8	LTBJC LTC6905AIS5	LTBPJ LTC6905CS5-96	LTBVM LT3481EMSE	LTCDW LTC2641BCMS8
LTADL LT6700CS6-2	LTAGA LTC1992-2HMS8	LTB7 LTC1772IS6	LTBJC LTC6905CS5	LTBPJ LTC6905HS5-96	LTBVX LTC4412CMS8	LTCDY LTC2642ACMS
LTADL LT6700HS6-2	LTAGB LTC2054CS5	LTB9 LT6550CMS	LTBJC LTC6905HS5	LTBPJ LTC6905IS5-96	LTBW LTC1474CMS8	LTCDY LTC2642AIMS
LTADL LT6700HVC56-2	LTAGB LTC2054HS5	LTBA LTC1326CMS8	LTBJC LTC6905IS5	LTBPJ LTC6905CS5-100	LTBW LTC1474IMS8	LTCDY LTC2642BCMS
LTADL LT6700HVHS6-2	LTAGB LTC2054S5	LTBB LT1490CMS8	LTBJD LTC1995CMS	LTBPK LTC6905HS5-100	LTBWB LT1936HMS8E	LTCDY LTC2642BIMS
LTADL LT6700HVIS6-2	LTAGD LTC2054HVC55	LTBB LTC4304CMS	LTBJD LTC1995IMS	LTBPK LTC6905IS5-100	LTBWF LT3493AES6	LTCE LTC1540CMS8
LTADL LT6700CS6-2	LTAGD LTC2054HVHS5	LTBB LTC4304IMS	LTBJM LTC3400ES6-1	LTBPM LTC6905CS5-133	LTBWK LTC3531IS6-3.3	LTCE LTC1258CMS8-2.5
LTADM LT6700CS6-3	LTAGD LTC2054HVIS5	LTBBM LTC4354CTS8	LTBJN LTC6906CS6	LTBPM LTC6905HS5-133	LTBWM LTC3531ES6-3.3	LTCE LTC3499BEMS8
LTADM LT6700HS6-3	LTAKE LTC4252A-2CMS	LTBBN LT6211CMS	LTBJN LTC6906HS6	LTBPM LTC6905IS5-133	LTBWN LTC3772BETS8	LTCE LTC4416EMS
LTADM LT6700HVC56-3	LTAKE LTC4252A-2IMS	LTBBP LTC6211IMS	LTBBN LTC6906HS6	LTBPM LTC6905IS5-133	LTBWX LTC3448EMS8E-1.5	LTCE LTC4416IMS
LTADM LT6700HVHS6-3	LTAGH LTC3406B-2ES5	LTBBQ LTC5531ES6	LTBBN LTC6906HS6	LTBPY LTC4303CMS8	LTBWX LTC3448EMS8E-1.8	LTCE LTC3003EMSE
LTADM LT6700HVIS6-3	LTAGJ LTC3250ES6-1.2	LTBBV LTC3462ES6	LTBBP LTC6906HS6	LTBPY LTC4303IMS8	LTBWY LTC14400CMS8	LTCE LTC3872ETS8-1
LTADM LT6700IS6-3	LTAGL LTC3020EMS8	LTBBW LTC4301CMS8	LTBBP LTC6906HS6	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTADS LT6221IMS8	LTAGM LTC3251EMSE-1.2	LTBBW LTC4301IMS8	LTBBP LTC6906HS6	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTADV LTC1540IMS8	LTAGN LT1933ES6	LTBBW LTC4301IMS8	LTBBQ LTC6906HS6	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTADW LTC1541IMS8	LTAGP LT1933IS6	LTBC LTC6200CMS8	LTBBQ LTC5531ES6	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTADX LTC1542IMS8	LTAGQ LT3468ES5-1	LTBC LTC1933ES6	LTBBV LTC3462ES6	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTADY LTC4054XES5-4.2	LTAGR LTC1992HMS8	LTCC LTC3467AES6	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEB LT3461ES6	LTAGU LTC2601CMS	LTCC LTC3467AIS6	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEC LT3468ES5	LTAGV LTC2601IMS	LTCC LTC6911HMS-1	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAED LTC2923CMS	LTAGW LTC2601CMS8	LTCC LTC3468ES5-2	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEE LTC2923IMS	LTAGX LTC2601IMS8	LTCC LTC2904CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEF LTC3010EMS8E-5	LTAGY LTC2601CTS8	LTCC LTC2904CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEG LTC2050CS5	LTAGZ LTC2601ITS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEG LTC2050HS5	LTAH LT1460CCMS8-10	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEG LTC2050IS5	LTAHA LTC3459ES6	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEH LTC2050HVCS5	LTAHC LTC3459EMS8E	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEH LTC2050HVHS5	LTAHD LTC3459IMS8E	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEH LTC2050HVIS5	LTAHG LT3461AES6	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEJ LTC2050HS6	LTAHH LTC6911CMS-2	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEJ LTC2050IS6	LTAHJ LTC6911IMS-2	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEK LTC2050HVCS6	LTAHK LTC6911CMS-1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEK LTC2050HVHS6	LTAHM LTC6911IMS-1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEK LTC2050HVIS6	LTAHN LTC3801BES6	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEM LT6205CS5	LTAHQ LTC4064EMSE	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEM LT6205HS5	LTAHR LTC1669-1CS5	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEM LT6205IS5	LTAHS LTC1669-2CS5	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEN LTC4411ES5	LTAHT LTC1669-8CMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAES LTC6904CMS8	LTAHU LTC1669-8IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAES LTC6904HMS8	LTAHV LTC1669CS5	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAES LTC6904IMS8	LTAHW LTC1669CS5	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEW LTC4057ES5-4.2	LTAHX LTC1669IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEX LTC2433-1CMS	LTAHY LTC1669IS5	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAEZ LTC2433-1IMS	LTAHZ LTC3023EMSE	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFA LT1460CCMS8-5	LTAJ LTC3023IMS	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFA LTC4054LES5-4.2	LTAJ LTC1460FOMS8-10	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFB LTC2053HMS8	LTAJB LTC1934IS6	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFD LTC1403AHMSE	LTAJC LTC1934IS6-1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFF LTC1407ACMSE	LTAJD LTC2905CTS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFF LTC1407AHMSE	LTAJE LTC2905ITS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFF LTC1407AIMSE	LTAJG LTC3420EMS-1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFG LTC1968CMS8	LTAJH LTC1992-5HMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFG LTC1968IMS8	LTAJK LTC1992-10HMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFG LTC1968IMS8	LTAJL LTC3411AEMS	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAJG LTC230CS6	LTAJM LTC3411IMS	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAJG LTC230CS6	LTAJN LTC2903CS6-B1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAJG LTC230CS6-10	LTAJP LTC2903IS6-B1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAJK LTC230IS6-10	LTAJQ LTC2903CS6-C1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6	LTAJR LTC2903IS6-C1	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJS LTC3426ES6	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJU LT1937CES5	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078ACMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078AHMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078AIMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078CMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078HMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230IS6	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC4301CMS8	LTBQ LTC1426CMS8	LTBX LTC14400IMS8	LTCE LTC3872ETS8-1
LTAFL LTC230CS6-10	LTAJZ LTC6078IMS8	LTCC LTC2907CTS8	LTBBW LTC430			

TOP MARKINGS (TOP MARK TO PART NUMBER)

LTDWF	LTC6246CS6	LT2F	LTC1844ES5-1.8	LTFDGD	LTC6655AHMS8-1.25	LTFM	LTC1261LCSM8	LTGU	LTC1682IMS8-3.3	LTJ1	LT1460KCS3-3.3	LTJG	LT1783IS5
LTDWF	LTC6246HS6	LT3F	LTC1844ES5-2.5	LTFDGH	LTC6655BHMS8-1.25	LTFMNM	LTC4361CTS8-2	LTGV	LTC1682CMS8-5	LTJ2	LT1460HCS3-5	LTJH	LT1812CS5
LTDWF	LTC6246IS6	LT4F	LTC1844ES5-3.3	LTFDHI	LTC6655AHMS8-2.048	LTFMNM	LTC4361ITS8-2	LTGW	LTC1682IMS8-5	LTJ2	LT1460JCS3-5	LTJH	LT1812IS5
LTDWH	LTC6247CMS8	LT5F	LTC4210-11S6	LTFDHD	LTC6655BHMS8-2.048	LTFMT	LTC4070EIMS8E	LTGX	LT1675CMS8-1	LTJ3	LT1460KCS3-5	LTJH	LT1812CS6
LTDWH	LTC6247IMS8	LT6F	LTC4210-21S6	LTFDJD	LTC6655AHMS8-3	LTFMT	LTC4070IMS8E	LTGY	LT1675IMS8-1	LTJ3	LT1460HCS3-10	LTJH	LT1812IS6
LTDWK	LTC6247CTS8	LT7F	LT1818CS5	LTFDJD	LTC6655BHMS8-3	LTFMV	LT3060MPTS8	LTGZ	LT1813DMS8	LTJ3	LT1460JCS3-10	LTJH	LT1797CS5
LTDWK	LTC6247HTS8	LT7F	LT1818IS5	LTFDJK	LTC6655AHMS8-3.3	LTFMX	LTC3663EMS8E-3.3	LTH2	LT3465ES6	LTJ3	LT1460KCS3-10	LTJH	LT1797CS6
LTDWK	LTC6247ITS8	LT8F	LT1934ES6-1	LTFDK	LTC6655BHMS8-3.3	LTFMX	LTC3663HMS8E-3.3	LTH3	LT6206CMS8	LTJ4	LT1865LACMS	LTJH	LTC17179E56
LTDWM	LTC6247CMS	LT9F	LTC4440EMS8E	LTFDM	LTC6655AHMS8-4.096	LTFMX	LTC3663HMS8E-3.3	LTH4	LT2061MS8	LTJ4	LTC1706EIMS-81	LTJH	LT1767EMS8
LTDWM	LTC6247IMS	LTFA	LT1521CMS8-5	LTFDM	LTC6655BHMS8-4.096	LTFMZ	LTC3663EMS8E-5	LTH5	LT3429ES6	LTJ4	LTC1865LMS	LTJH	LTC1696ES6
LTDWN	LTC4361CTS8-1	LTFB	LT1521CMS8-3	LTFDN	LTC6655AHMS8-5	LTFMZ	LTC3663HMS8E-5	LTH6	LTC4257CMS8	LTJ4	LTC1865LIMS	LTJH	LTC1877EMS8
LTDWN	LTC4361ITS8-1	LTFBB	LTC2635CMSE-HMX12	LTFDN	LTC6655BHMS8-5	LTFMZ	LTC3663IMS8E-5	LTH7	LTC4054ES5-4.2	LTJ8	LT1937BE5S	LTJH	LTC1877IMS8
LTDWO	LT3085MPMS8E	LTFBB	LTC2635HMSE-HMX12	LTFDT	LTC3631EMS8E	LTFN	LTC1261LCSM8-4	LTH8	LT1460HCS3-2.5	LTJ9	LTC6991CMS	LTJH	LTC1877IMS8
LTDWT	LT3663EMS8E	LTFBB	LT2635IMSE-HMX12	LTFDT	LTC3631IMS8E	LTFNK	LT6656ACS6-1.25	LTH8	LT1460JCS3-2.5	LTJA	LTC1197LIMS8	LTJH	LTC1754ES6-5
LTDWT	LT3663HMS8E	LTFBC	LTC2635CMSE-HMI12	LTFDX	LTC6940MPMS8	LTFNK	LT6656AIS6-1.25	LTH8	LT1460KCS3-2.5	LTJB	LT1614IMS8	LTJH	LT1733EMSE
LTDWT	LT3663IMS8E	LTFBC	LTC2635HMSE-HMI12	LTFDX	LTC2635HMSE-HMI12	LTFNK	LT6656BCS6-1.25	LTH9	LT1460HCS3-3	LTJC	LT1949EM8S	LTJH	LTC1729CMS8-4.1
LTDX	LTC1484CMS8	LTFBC	LTC2635IMSE-HMI12	LTFDX	LTC3592HVEMSE	LTFNK	LT6656BIS6-1.25	LTH9	LT1460JCS3-3	LTJD	LT1784CS5	LTJH	LTC1729CMS8-8.2
LTDXS	LT3972EMSE	LTFBD	LTC2635CMSE-LZ10	LTFFB	LT3592HVHMSE	LTFNN	LT6656ACS6-2.048	LTH9	LT1460KCS3-3	LTJE	LT1761ES5-2	LTJH	LT1395CS5
LTDXS	LT3972HMSE	LTFBD	LTC2635HMSE-LZ10	LTFFB	LTC2635HVIMSE	LTFNN	LT6656AIS6-2.048	LTHA	LT1317CMS8	LTJE	LT1761IS5-2	LTJH	LTC2401CMS
LTDXS	LT3972IMSE	LTFBD	LTC2635IMSE-LZ10	LTFFF	LTC2054MPMS8	LTFNN	LT6656BCS6-2.048	LTHB	LT1317BCM8S	LTJF	LT1719IS6	LTJH	LTC2401IMS
LTDXZ	LTC6102CMS8-1	LTFBF	LTC2635CMSE-LMX10	LTFFG	LTC2054HVMP55	LTFNN	LT6656BIS6-2.048	LTHB	LT1619EMS8	LTJG	LTC1729CMS8-8.4	LTJH	LTC2402CMS
LTDXZ	LTC6102HMS8-1	LTFBF	LTC2635HMSE-LMX10	LTFFG	LTC3619BEMSE	LTFNQ	LT6656ACS6-3	LTHD	LT1734ES6-4.1	LTJH	LTC1729CMS8-4.2	LTJH	LTC2402IMS
LTDXZ	LTC6102IMS8-1	LTFBF	LTC2635IMSE-LMX10	LTFJJ	LTC3619BIMSE	LTFNQ	LT6656AIS6-3	LTHE	LTC1694-1CS5	LTJJ	LTC1663IMS8	LTJH	LTC1395CS6
LTDY	LT1396CMS8	LTFBG	LTC2635CMSE-LMI10	LTFJK	LT4356CMS-3	LTFNQ	LT6656BCS6-3	LTHF	LT1762EMS8	LTJK	LTC1731EMS8-4.1	LTJH	LTC1706EMS-82
LTDYF	LTC3127EMSE	LTFBG	LTC2635HMSE-LMI10	LTFJK	LT4356HMS-3	LTFNQ	LT6656BIS6-3	LTHG	LT1762EMS8-2.5	LTJM	LT1761ES5-1.8	LTJH	LTC1872ES6
LTDYN	LTC3642EMS8E-3.3	LTFBG	LTC2635IMSE-LMI10	LTFJK	LT4356IMS-3	LTFNS	LT6656ACS6-3.3	LTHH	LT1762EMS8-3	LTJM	LT1761IS5-1.8	LTJH	LTC1792IMS8
LTDYN	LTC3642IMS8E-3.3	LTFBH	LTC2635CMSE-HZ10	LTFPP	LTC3631EMS8E-3.3	LTFNS	LT6656AIS6-3.3	LTHJ	LT1762EMS8-3.3	LTJY	LTC2053IMS8	LTJH	LT1962IMS8
LTDYQ	LTC3642EMS8E-5	LTFBH	LTC2635HMSE-HZ10	LTFPP	LTC3631IMS8E-3.3	LTFNS	LT6656BCS6-3.3	LTHK	LT1762EMS8-5	LTJZ	LT6200CS6	LTJH	LTC2051CMS8
LTDYQ	LT3082ETS8	LTFBH	LTC2635IMSE-HZ10	LTFRR	LTC3631EMS8E-5	LTFNS	LT6656BIS6-3.3	LTHL	LTC1502IMS8-3.3	LTJZ	LTC2620IS6	LTJH	LTC2051IMS8
LTDYV	LT3082ITS8	LTFBJ	LTC2635CMSE-HMX10	LTFRR	LTC3631IMS8E-5	LTFNV	LT6656ACS6-4.096	LTHM	LTC1682IMS8	LTK1	LTC6901IMS	LTJH	LTC2051CMS10
LTDYV	LT3757EMSE	LTFBJ	LTC2635HMSE-HMX10	LTFZZ	LTC3632EMS8E	LTFNV	LT6656BCS6-4.096	LTHN	LTC1503CMS8-2	LTK2	LTC6902CMS	LTJH	LTC2051IMS10
LTDYX	LT3757HMSE	LTFBJ	LTC2635IMSE-HMX10	LTFZZ	LTC3632IMS8E	LTFNV	LT6656BIS6-4.096	LTHQ	LTC1864ACMS8	LTK3	LTC6902IMS	LTJH	LT1612EMS8
LTDYX	LT3757IMSE	LTFBK	LTC2635CMSE-HMI10	LTFFG	LT1494IMS8	LTFNV	LT6656BIS6-4.096	LTHQ	LTC1864HMS8	LTK4	LTC6200IMS	LTJH	LT1761ES5-1.5
LTDZ	LTC1710CMS8	LTFBK	LTC2635HMSE-HMI10	LTFFG	LTC4356MPMS-1	LTFNX	LT6656ACS6-5	LTHQ	LTC1864IMS8	LTK5	LTC6200IMS	LTJH	LT1761IS5-1.5
LTDZ	LTC2635CMSE-LZ12	LTFBK	LTC2635IMSE-HMI10	LTFFGW	LT6656ACS6-2.5	LTFNX	LT6656AIS6-5	LTHQ	LTC1864CMS8	LTK6	LTC4251-2CS6	LTJH	LTC1536IMS8
LTDZ	LTC2635HMSE-LZ12	LTFBM	LTC2635CMSE-LZ8	LTFFGW	LT6656AIS6-2.5	LTFNX	LT6656BCS6-5	LTHQ	LTC1864HMS8	LTK7	LT6700CS6-1	LTJH	LTC1773EMS
LTDZ	LTC2635IMSE-LZ12	LTFBM	LTC2635HMSE-LZ8	LTFFGW	LT6656BIS6-2.5	LTFNX	LT6656BIS6-5	LTHQ	LTC1864IMS8	LTK7	LT6700HVS6-1	LTJH	LTC1911EMS8-1.5
LTDZ	LTC2635CMSE-LMX12	LTFBN	LTC2635CMSE-LMX8	LTFFH	LT1672CMS8	LTFP	LTC1261LCSM8-4.5	LTHS	LTC1865ACMS	LTK7	LT6700HVS6-1	LTJH	LT1616ES6
LTDZ	LTC2635HMSE-LMX12	LTFBN	LTC2635IMSE-LMX8	LTFFHD	LT3008ETS8-1.2	LTFQ	LTC1551LCSM8	LTHS	LTC1865AHMS	LTK7	LT6700HVS6-1	LTJH	LT1616IS6
LTDZ	LTC2635IMSE-LMX12	LTFBN	LTC2635HMSE-LMX8	LTFFHD	LT3008IMS8-1.2	LTFR	LTC1551LCSM8-2.5	LTHS	LTC1865AIMS	LTK7	LT6700HVS6-1	LTJH	LTC1799CS5
LTDZY	LTC2635CMSE-LMI12	LTFBP	LTC2635CMSE-LMI8	LTFFHD	LT3008MPTS8-1.2	LTFR	LTC1551LCSM8-4.1	LTHS	LTC1865HMS	LTK7	LT6700HVS6-1	LTJH	LTC1799H5S
LTDZY	LTC2635HMSE-LMI12	LTFBP	LTC2635HMSE-LMI8	LTFFHG	LT3008ETS8-1.5	LTFV	LTC1551LCSM8-2.5	LTHS	LTC1865IMS	LTK8	LT6700HVS6-1	LTJH	LTC1799IS5
LTDZY	LTC2635IMSE-LMI12	LTFBP	LTC2635IMSE-LMI8	LTFFHG	LT3008IMS8-1.5	LTFW	LTC1551LCSM8	LTHS	LTC1865IMS	LTK8	LTC1706EMS-61	LTJH	LT1490ACMS8
LTDZZ	LTC2635CMSE-HZ12	LTFBQ	LTC2635CMSE-HZ8	LTFFHJ	LT3008MPTS8-1.5	LTFX	LTC1503CMS8-1.8	LTHU	LTC1647-1CMS8	LTKA	LT1761ES5-1	LTJH	LT1618EMS
LTDZZ	LTC2635HMSE-HZ12	LTFBQ	LTC2635HMSE-HZ8	LTFFHJ	LT3008ETS8-1.8	LTFF	LTC1503CMS8-1.8	LTHV	LTC1647-2CMS8	LTKB	LTC1662CMS8	LTJH	LTC1732EMS-4
LTDZZ	LTC2635IMSE-HZ12	LTFBQ	LTC2635IMSE-HZ8	LTFFHJ	LT3008MPTS8-1.8	LTFF	LTC1503CMS	LTHW	LT1719CS6	LTKC	LTC1662IMS8	LTJH	LT1806CS6
LTE2	LTC3406BE5S	LTFBR	LTC2635CMSE-HMX8	LTFFHJ	LT3008ETS8-1.8	LTFFZ	LTC1503CMS	LTHX	LTC1727EMS8-5	LTKD	LTC1771EMS8	LTJH	LT1806IS6
LTE3	LTC3406BE5S-1.5	LTFBR	LTC2635HMSE-HMX8	LTFFHM	LT3008MPTS8-2.5	LTGG	LTC3464ETS8	LTHY	LTC1727EMS8-2.5	LTKE	LTC1771IMS8	LTJH	LTC1985ES5-1.8
LTE4	LTC3406BE5S-1.8	LTFBS	LTC2635CMSE-HMX8	LTFFHM	LT3008IMS8-2.5	LTG4	LTC1871EMS-7	LTHZ	LTC1728ES5-5	LTKF	LT1617ES5	LTJH	LTC2411-1IMS
LTE5	LT1819IMS8	LTFBS	LTC2635HMSE-HMI8	LTFFHP	LT3008ETS8-3.3	LTG6	LTC4056ETS8-4.2	LTHZ	LTC1728H5S-5	LTKG	LTC1701ES5	LTJH	LTC3440EMS
LTE6	LTC1734LES6-4.2	LTFBS	LTC2635IMSE-HMI8	LTFFHP	LT3008MPTS8-3.3	LTG6	LT6202CS5	LTHA	LTC1728ES5-2.5	LTKH	LT1617ES5-1	LTJH	LT1816IMS8
LTE7	LT1819CMS8	LTFBS	LTC2635CMSE-LMO12	LTFFHP	LT3008ETS8-3.3	LTGA	LT6202IS5	LTHB	LTC1728ES5-2.5	LTKI	LT1787HVCM8S	LTJH	LT1948EMS8
LTE8	LTC1844ES5-SD	LTFBX	LTC2635HMSE-LMO12	LTFFHP	LT3008MPTS8-3.3	LTCG	LTC1503IMS	LTHC	LTC1707CMS8	LTKK	LTC1787HVCM8S	LTJH	LTC2411CMS
LTE9	LTC1844ES5-BYP	LTFBX	LTC2635IMSE-LMO12	LTFFHR	LT3008ETS8-5	LTDG	LT1761ES5-BYP	LTHD	LT1614CMS8	LTKL	LTC1751EMS8-3	LTJH	LTC2411IMS
LTEB	LTC1693-3CMS8	LTFBX	LTC2635HMSE-LMO12	LTFFHR	LT3008IMS8-5	LTGD	LT1761ES5-2.5	LTHI	LT1637CMS8	LTKM	LTC1751EMS8-3	LTJH	LTC1911EMS8-1.8
LTEC	LTC1502CMS8-3.3	LTFBY	LTC2635CMSE-LMO10	LTFFHR	LT3008MPTS8-5	LTGD	LT1761IS5-2.5	LTHI	LT1637IMS8	LTKN	LTC1751EMS8-3.3	LTJH	LTC3200EMS8
LTED	LT1613CS5	LTFBY	LTC2635HMSE-LMO10	LTFFHV	LTC2935CTS8-3	LTGE	LTC1503CMS	LTHI	LT1757-2EMS8	LTKP	LTC1751EMS8-5	LTJH	LTC1878EMS8
LTEE	LTC1694CS5	LTFBZ	LTC2635IMSE-LMO10	LTFFHV	LTC2935CTS8-4	LTGE	LT1761ES5-3	LTHI	LTC1757-1EMS8	LTKQ	LTC1731EMS8-4.2	LTJH	LTC1983ES6-3
LTEF	LTC1517CS5-3.3	LTFBZ	LTC2635CMSE-LMO8	LTFFHX	LTC2935CTS8-4	LTFG	LT1761ES5-3.3	LTHI	LTC3404EMS8	LTKR	LTC1731EMS8-4.2	LTJH	LTC1983EMS8-3
LTEG	LTC1550LCSM8	LTFBZ	LTC2635HMSE-LMO8	LTFJ	LT1672IMS8	LTFG	LT1761ES5-3.3	LTHI	LTC1930ES5	LTKS	LTC1928ES6-5	LTJH	LTC1731EMS8-8.4
LTEH	LTC1550LCSM8-4.1	LTFBZ	LTC2635IMSE-LMO8	LTFJQ	LTC4310CMS-1	LTGG	LT1761ES5-5	LTHI	LTC172ES6	LTKT	LTC1928ES6	LTJH	LTC1982ES6
LTEK	LTC1326CMS8-2.5	LTFCG	LTC4310CMS-1	LTFJQ	LTC4310IMS-1	LTHG	LT1761IS5-5	LTHI	LTC172ES6	LTKU	LTC1663IS5	LTJH	LTC3401EMS
LTEL	LTC1258CMS8	LTFCJ	LTC4310CMS-2	LTFJQ	LTC4310IMS-2	LTHG	LT1761IS5-SD	LTHI	LTC2050CMS8	LTKV	LTC1197CMS8	LTJH	LTC1728ES5-1.8
LTEM	LTC1258CMS8-5	LTFCJ	LTC4310IMS-2	LTFJQ	LTC4310IMS-2	LTHG	LT1761IS5-SD	LTHI	LTC2050IMS8	LTKW	LTC1404EMS8	LTJH	LTC2051HVMCM8
LTEN	LTC1258CMS8-4.1	LTFCJ	LTC6655AHMS8-2.5	LTFJV	LT6350IMS8	LTHG	LT1761IS5-SD	LTHI	LTC1782CS6	LTKX	LTC1896ES6	LTJH	LTC2051HVMCM8
LTEP	LTC1663CS5	LTFCY	LTC6655BHMS8-2.5	LTFJV	LT6350IMS8	LTHI	LT1761IS5-5	LTHI	LTC1782CS6	LTKY	LTC1896CS6	LTJH	LTC1757A-1EMS8
LTEP	LTC1663ES5	LTFCY	LTC6655GHMS8-2.5	LTFJV	LT3092ETS8	LTHI	LT1761ES5-5	LTHI	LTC1782CS6	LTKZ	LTC1728EMS8-2.5	LTJH	LTC1757A-2EMS
LTEQ	LTC1663CMS8	LTFCY	LTC6655GHMS8-2.5	LTFJW	LT3092IMS8	LTGL	LTC1754IS6-3.3	LTHI	LTC1783CS6	LTAL	LTC1728EMS8-2.5	LTJH	LTC1990CMS8
LTER	LTC1682CMS8	LTFDB	LT3970EMS	LTFJW	LT3092IMS8	LTGM	LT1787CMS8	LTHI	LTC1783CS6	LTLB	LTC1761ES5-2.8	LTJH	LT1990IMS8
LTES	LT1611CS5	LTFDB	LT3970HMS	LTFKN	LTC3619EMSE	LTHI	LT1787CMS8	LTHI	LTC1783CS6	LTLB	LT1761IS5-2.8	LTJH	LT1962EMS8-3
LTEU	LTC1258CMS8-3	LTFDB	LT3970IMS	LTFKN	LTC3619IMS8	LTHI	LT5504EMS8	LTHI	LTC1783CS6	LTLB	LTC1761IS5-2.8	LTJH	LT1962EMS8-5
LTEZ	LT1521CMS8	LTFDD	LTC3824MPMSE	LTFKW	LTC3548AIMSE	LTHR	LTC1550LCSM8-2	LTHI	LTC1783CS6	LTLB	LTC1761IS5-2.8	LTJH	LT1962EMS8-3.3
LTF1	LTC1844ES5-1.5	LTFDF	LTC4444MPMS8E-5	LTFKW	LTC3548AIMSE	LTHS	LT1610IMS8	LTHI	LTC1783CS6	LTLB	LTC1761IS5-2.8	LTJH	LT1962EMS8-2.5
		LTFDF	LTC4444MPMS8E-5	LTLF	LTC1199CMS8	LTGT	LTC1682CMS8-3.3	LTHI	LT1460HCS3-3.3	LTLF	LT1783CS5	LTJH	LT1490AEMS8
						LTGT	LTC1682CMS8-3.3	LTHI	LT1460HCS3-3.3				

TOP MARKINGS (TOP MARK TO PART NUMBER)

Reference Material	Space, Military, Harsh Envir.	RF/Wireless	Interface	Data Conversion	Power Management	Amps, Refs, Filters, Comps	
LTPV	LTC1699EMS8-80	LTSQ	LT1930AES5	LTIVY	LT1964IS5-BYP	LTYN	LT1937ES5
LTPW	LTC1699EMS8-81	LTSR	LT1932ES6	LTIVZ	LT1964ES5-5	LTYP	LTC1728ES5-3.3
LTPZ	LT1790ACS6-2.5	LTSU	LTC4211CMS	LTIVZ	LT1964IS5-5	LTYP	LTC1706EMS-85
LTPZ	LT1790AIS6-2.5	LTSV	LTC4211IMS	LTWA	LT1816CMS8	LTZR	LT1801CMS8
LTPZ	LT1790BCS6-2.5	LTSW	LTC1731EMS8-8.2	LTWB	LTC1199IMS8	LTYS	LT1801IMS8
LTPZ	LT1790BIS6-2.5	LTSX	LTC1871EMS	LWGC	LTC1199LIMS8	LYT	LTC3704EMS
LTOA	LT1790ACS6-3	LTSZ	LT1962EMS8-1.5	LWGD	LT1767EMS8-2.5	LTYS	LTC1992CMS8
LTOA	LT1790AIS6-3	LTTA	LT1962EMS8-1.8	LWGE	LT1767EMS8-3.3	LTYS	LTC1992-2CMS8
LTOA	LT1790BCS6-3	LTTB	LTC1699EMS8-82	LWGF	LT1767EMS8-5	LYW	LTC4210-1CS6
LTOA	LT1790BIS6-3	LTTD	LT1711CMS8	LWVG	LT1767EMS8-1.8	LYX	LTC4210-2CS6
LTOB	LT1790ACS6-4.096	LTTD	LT1711IMS8	LWVH	LT1567CMS8	LYY	LTC4052EMS8E-4.2
LTOB	LT1790AIS6-4.096	LTTD	LTC1517ES5-3.3	LWVJ	LT1567IMS8	LYZ	LT1946AEMS8E
LTOB	LT1790BCS6-4.096	LTTF	LTC1517ES5-5	LWVK	LTC3400ES6	LTZA	LT1723IMS8
LTOB	LT1790BIS6-4.096	LTTG	LTC1966CMS8	LWVL	LTC3202EMS	LTZB	LT1722CS5
LTOC	LT1790ACS6-5	LTTG	LTC1966CMS8	LTWL	LTC4252-1CMS8	LTZB	LT1722IS5
LTOC	LT1790AIS6-5	LTTJ	LTC1967CMS8	LWVN	LTC4252-1CMS	LTZC	LTC1992IMS8
LTOC	LT1790BCS6-5	LTTJ	LTC1967IMS8	LWVW	LTC4252-2CMS8	LTZD	LTC1992-2IMS8
LTOC	LT1790BIS6-5	LTLT	LT1797IS5	LWVX	LTC4252-2CMS	LTZE	LTC3250ES6-1.5
LTDQ	LT1991ACMS	LTTM	LT1797IS6	LWVY	LTC1860CMS8	LTZF	LT3010EMS8E
LTDQ	LT1991AIMS	LTTN	LT1969CMS	LWVZ	LTC1860HMS8	LTZG	LT1767EMS8E
LTDQ	LT1991CMS	LTPP	LT1969IMS	LWVZ	LTC1860IMS8	LTZH	LT1767EMS8E-1.8
LTDQ	LT1991HMS	LTPQ	LT1810IMS8	LWVZ	LTC1861CMS	LTZJ	LT1767EMS8E-2.5
LTDQ	LT1991IMS	LTPR	LT1944EMS	LWVZ	LTC1861HMS	LTZK	LT1767EMS8E-3.3
LTDQ	LTC1844ES5-2.8	LTPS	LT1945EMS	LWVZ	LTC1861IMS	LTZL	LT1767EMS8E-5
LTDQ	LTC3423EMS	LTPS	LT1945IMS	LWVZ	LTC2411-1CMS	LTZM	LTC6900CS5
LTDQ	LTC3424EMS	LTPS	LT1807CMS8	LWVZ	LTC1732EMS-8.4	LTZM	LTC6900IS5
LTDQ	LTC4301-1CMS	LTPS	LT1944-1EMS	LWVZ	LTC1983CS6-5	LTZP	LTC3405AES6-1.8
LTDQ	LTC4301-1IMS	LTPS	LT1807IMS8	LWVZ	LTC4400-1ES6	LTZQ	LTC3405AES6-1.5
LTDQ	LTC2490CS6	LTPS	LTC4050EMS-4.1	LWVZ	LTC4401-1ES6	LTZR	LTC1697EMS
LTDQ	LTC2490CS6	LTPS	LTC4050EMS-4.2	LWVZ	LTC4400-2EMS8	LTZS	LTC4053EMSE-4.1
LTDQ	LTC2490CS6	LTPS	LTC1998CS6	LWVZ	LTC4401-2EMS8	LTZT	LTC4053EMSE-4.2
LTDQ	LTC3411EMS	LTPS	LTC1998IS6	LWVZ	LTC2431CMS	LTZU	LTC1921IMS8
LTDQ	LTC3411IMS	LTPS	LTC1732EMS-4.2	LWVZ	LTC2431IMS	LTZV	LTC1921CMS8
LTDQ	LTC4251-1CS6	LTPS	LTC4300-1CMS8	LWVZ	LTC4402-1EMS8	LTZW	LTC3405AES6
LTDQ	LTC4251-1IS6	LTPS	LTC4300-1IMS8	LWVZ	LTC4403-1EMS8	LTZX	LTC5507ES6
LTDQ	LTC4150CMS	LTPS	LTC1701BES5	LWVZ	LTC4402-2EMS	LTZY	LTC4440ES6
LTDQ	LTC4150IMS	LTPS	LT1947EMS	LWVZ	LTC4403-2EMS	LTZZ	LT4351CMS
LTDQ	LT1949-1EMS8	LTPS	LT1809IS6	LWVZ	LT1782HS5	OP07	OP07CS8
LTDQ	LT1961EMS8E	LTPS	LT1946EMS8	LWVZ	LT1782HS6	OP27G	OP27GS8
LTDQ	LT1961IMS8E	LTPS	LTC1326IMS8	LWVZ	LTC1442IMS8	OP37G	OP37GS8
LTDQ	LT1009CMS8	LTPS	LTC1326IMS8-2.5	LWVZ	LTC3700EMS		
LTDQ	LT1009IMS8	LTPS	LT1713IMS8	LWVZ	LT1934ES6		
LTRA	LT1931ES5	LTPS	LT1815CS6	LWVZ	LTC3405ES6		
LTRB	LTC2051HVCMS10	LTPS	LT1880CS5	LWVZ	LT1783HS5		
LTRC	LTC2051HVIMS10	LTPS	LTC3400BES6	LWVZ	LT1783HS6		
LTRD	LT1713CMS8	LTPS	LT1815CS5	LWVZ	LT1790ACS6-1.25		
LTRF	LT1810CMS8	LTPS	LTC4251CS6	LWVZ	LT1790AIS6-1.25		
LTRG	LTC1734ES6-4.2	LTPS	LTC4251IS6	LWVZ	LT1790BCS6-1.25		
LTRH	LTC1957-1EMS8	LTPS	LT4352CMS8	LWVZ	LT1790BIS6-1.25		
LTRJ	LTC1957-2EMS	LTPS	LT4352IMS8	LWVZ	LT1790ACS6-2.048		
LTRK	LT1490AHMS8	LTPS	LT4352CMS10	LWVZ	LT1790AIS6-2.048		
LTRL	LT1946-2EMS8	LTPS	LT4352IMS10	LWVZ	LT1790BCS6-2.048		
LTRM	LT1946-2CMS8	LTPS	LTC2421CMS	LWVZ	LT1790BIS6-2.048		
LTRN	LT1800CS5	LTPS	LTC2421IMS	LWVZ	LTC5505-1ES5		
LTRP	LT1800IS5	LTPS	LTC2422CMS	LWVZ	LT1790ACS6-3.3		
LTRQ	LTC4252-1IMS8	LTPS	LTC2422IMS	LWVZ	LT1790AIS6-3.3		
LTRR	LTC4252-2IMS8	LTPS	LTC3201EMS	LWVZ	LT1790BCS6-3.3		
LTRS	LTC4252-1IMS	LTPS	LT1815IS5	LWVZ	LT1790BIS6-3.3		
LTRT	LTC4252-2IMS	LTPS	LT1815IS6	LWVZ	LT1816AIMS		
LTRW	LTC5505-2ES5	LTPS	LTC2051HMS8	LWVZ	LTC1872BES6		
LTRX	LT1935ES5	LTPS	LTC2051HVHMS8	LWVZ	LT1615IS5		
LTRY	LT1936CS5	LTPS	LTC4300-2CMS8	LWVZ	LT1816ACMS		
LTRZ	LT1310EMSE	LTPS	LTC4300-2IMS8	LWVZ	LTC1983ES6-5		
LTSB	LTC1663-1CS5	LTPS	LT1715CMS	LWVZ	LT1723CMS8		
LTSB	LTC1663-2CS5	LTPS	LTC1983CS6-3	LWVZ	LT1716CS5		
LTSB	LTC4211CMS8	LTPS	LTC2053CMS8	LWVZ	LT1716HS5		
LTSB	LTC4211IMS8	LTPS	LTC1772BES6	LWVZ	LT1716IS5		
LTSB	LTC1981ES5	LTPS	LTC1772BIS6	LWVZ	LTC4302CMS-1		
LTSB	LTC1693-5CMS8	LTPS	LT1715HMS	LWVZ	LTC4302IMS-1		
LTSB	LTC3200ES6-5	LTPS	LT1715IMS	LWVZ	LT3420EMS		
LTSB	LTC3402EMS	LTPS	LT1880IS5	LWVZ	LTC2900-1CMS		
LTSB	LTC1758-1EMS8	LTPS	LT1964ES5-SD	LWVZ	LTC2900-1IMS		
LTSB	LTC1758-2EMS	LTPS	LT1964IS5-SD	LWVZ	LTC2900-2CMS		
LTSB	LT1784IS5	LTPS	LT1964ES5-BYP	LWVZ	LTC2900-2IMS		
LTSB	LT1931AES5	LTPS		LWVZ			

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	

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 useful 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, step-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 backlight liquid crystal displays. The backlight 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, backlight 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 is 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 chipsets 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 overdrive 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 100 μ V 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 <100 μ V 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 overvoltage 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 rise times as low as 20ps. Five signal conditioners appear; a unique, single positive rail powered amplifier with output to (and below) zero volts, a milliohmeter, 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 μ Module in LGA Package

AN100 describes the best practice approach for the use of the LTC μ Module. 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 μ Module. 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 μ Module® Thermal Performance

This application note provides an extensive guideline for the thermal performance of the LTM4600 μ Module. The LTM4600 is characterized with and without heatsinking over an extended operating temperature range. Derating 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 I²C 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 I²C traffic.

AN110 LTM4601 DC/DC μ Module Thermal Performance

This application note provides an extensive guideline for the thermal performance of the LTM4601 μ Module. The LTM4601 is characterized with and without heatsinking over an extended operating temperature range. Derating 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 I²C 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 I²C 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 electrosociologists, 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 μ Module 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 of 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, I²C traffic and even battery power.

AN117 DC/DC μ Module Regulator Printed Circuit Board Design Guidelines

The LTM8020, LTM8021, LTM8022 and LTM8023 μ Modules 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 μ Module, 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 μ Module 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 μ Module 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 μ Module 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 μ Module regulators to prevent hot spots by dissipating the heat evenly over a compact surface area. Each DC/DC μ Module is a complete power supply with onboard inductor, DC/DC controller, MOSFETs, compensation circuitry and input/output bypass capacitors. It occupies only 15mm \times 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-and-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 1.8 μ s. 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 ultrasensitive 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 $\Delta\Sigma$ ADC in an SO-8**
This application note describes six low power differential-to-single-ended signal conditioning circuits for the LTC2400 No Latency $\Delta\Sigma$ 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 $\pm 2.5V$, as well as operation on a single 5V or $\pm 5V$ 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 $\Delta\Sigma$ 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 electrosociologists, 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 thermodynamic 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**
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**
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 and 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-and-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 stage 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 is 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 Wien bridge oscillators.
- AN45 Measurement and Control Circuit Collection**
A variety of measurement and control circuits is 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/ μ s. 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 subnanosecond pulse generators with rise times as low as 20ps. Five signal conditioners appear; a unique, single positive rail powered amplifier with output to (and below) zero volts, a milliohmeter, 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 \rightarrow 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 \rightarrow 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 preamplifiers, 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 electrosociologists, 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.

AN124 775 Nanovolt Noise Measurement for A Low Noise Voltage Reference

Frequently, voltage reference stability and noise define measurement limits in instrumentation systems. In particular, reference noise often sets stable resolution limits. Reference voltages have decreased with the continuing drop in system power supply voltages, making reference noise increasingly important. The compressed signal processing range mandates a commensurate reduction in reference noise to maintain resolution. Noise ultimately translates into quantization uncertainty in A to D converters, introducing jitter in applications such as scales, inertial navigation systems, infrared thermography, DVMs and medical imaging apparatus. A new low voltage reference, the LTC6655, has only 0.3ppm (775nV) noise at 2.5V_{OUT}.

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.
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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 $0.4\text{pF} \pm 0.05\text{pF}$ 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.

Amps, Refs, Filters, Comps	DN1	New Data Acquisition Systems Communicate with Microprocessors over Four Wires	DN48	No Design Switching Regulator 5V, 5A Buck (Step-Down) Regulator	DN91	5V to 3.3V Circuit Collection
	DN2	Sampling of Signals for Digital Filtering and Gate Measurements	DN49	No Design Switching Regulator 5V Buck-Boost (Positive-to-Negative) Regulator	DN92	An Adjustable Video Cable Equalizer using the LT1256
	DN3	Operational Amplifier Selection Guide for Optimum Noise Performance	DN50	High Frequency Amplifier Evaluation Board	DN93	PCMCIA Socket Voltage Switching (Why Your Portable System Needs SafeSlot™ Protection)
	DN4	New Developments in RS232 Interfaces	DN51	Gain Trimming in Instrumentation Amplifier Based Systems	DN94	Interfacing to V.35 Networks
	DN5	Temperature Measurement Using the LTC1090/91/92 Series of Data Acquisition Systems	DN52	DC/DC Converters for Portable Computers	DN95	Capacitor and EMI Considerations for New High Frequency Switching Regulators
	DN6	Operational Amplifier Selection Guide for Optimum Noise Performance	DN53	High Performance Frequency Compensation Gives DC-to-DC Converter 75µs Response with High Stability	DN96	LTC1451/52/53: 12-Bit Rail-to-Rail Micropower DACs in an SO-8
	DN7	DC Accurate Filter Eases PLL Design	DN54	A 4-Cell Ni-Cad Regulator/Charger for Notebook Computers	DN97	Flash Memory VPP Generator Reference Designs
	DN8	Inductor Selection for LT1070 Switching Regulators	DN55	New Low Cost Differential Input Video Amplifiers Simplify Designs and Improve Performance	DN98	Highly Integrated High Efficiency DC/DC Conversion
	DN9	Chopper Amplifiers Complement a DC Accurate Lowpass Filter	DN56	3V Operation of Linear Technology Op Amps	DN99	LT1182 Floating CCFL with Dual Polarity Contrast
	DN10	Electrically Isolating Data Acquisition Systems	DN57	Video Circuits Collection	DN100	Dual Output Regulator Uses Only One Inductor
Power Management	DN11	Achieving Microamp Quiescent Current in Switching Regulators	DN58	A Simple, Surface Mount Flash Memory V _{P-P} Generator	DN101	A Precision Wideband Current Probe for LCD Backlight Measurement
	DN12	An LT1013 and LT1014 Op Amp SPICE MacroModel	DN59	5V High Current Step-Down Switchers	DN102	RS485 Transceivers Reduce Power and EMI
	DN13	Closed-Loop Control with the LTC1090 Series of Data Acquisition Systems	DN60	The LTC1096 and 1097: Micropower, SO-8, 8-Bit A/Ds Sample at 1kHz on 3µA of Supply Current	DN103	New LTC1266 Switching Regulator Provides High Efficiency at 10A Loads
	DN14	Extending the Applications of 5V Powered RS232 Transceivers	DN61	Peak Detectors Gain in Speed and Performance	DN104	LTC1410: 1.25Mps 12-Bit A/D Converter Cuts Power Dissipation and Size
	DN15	Noise Calculations in Op Amp Circuits	DN62	No Design Offline Power Supply	DN105	LTC1265: A New, High Efficiency Monolithic Buck Converter
	DN16	Switched-Capacitor Lowpass Filters for Anti-Aliasing Applications	DN63	2 AA Cells Replace 9V Battery, Extend Operating Life	DN106	The LTC1392: Temperature and Voltage Measurement in a Single Chip
	DN17	Programming Pulse Generators for Flash EPROMs	DN64	RS232 Transceivers for Handheld Computers Withstand 10kV ESD	DN107	C-Load™ Op Amps Conquer Instabilities
	DN18	A Battery-Powered Laptop Computer Power Supply	DN65	Send Color Video 1000 Feet Over Low Cost Twisted-Pair	DN108	250kHz, 1mA I _Q Constant Frequency Switcher Tames Portable Systems Power
	DN19	A Two-Wire Isolated and Powered 10-Bit Data Acquisition System	DN66	New 5V and 3V, 12-Bit ADCs Sample at 300kHz on 75mW and 140kHz on 12mW	DN109	Micropower Buck/Boost Circuits, Part 1: Converting Three Cells to 3.3V
	DN20	Hex Level Shift Shrinks Board Space	DN67	A 1mV Offset, Clock-Tunable, Monolithic 5-Pole Lowpass Filter	DN110	Micropower Buck/Boost Circuits, Part 2: Converting Four Cells to 5V
Data Conversion	DN21	Floating Input Extends Regulator Capabilities	DN68	New Synchronous Step-Down Switching Regulators Achieve 95% Efficiency	DN111	LT1510 High Efficiency Lithium-Ion Battery Charger
	DN22	New 12-Bit Data Acquisition Systems Communicate with Microprocessors over Four Wires	DN69	Low Parts Count DC/DC Converter Circuit with 3.3V and 5V Outputs	DN112	LTC1390: A Versatile 8-Channel Multiplexer
	DN23	Micropower, Single Supply Applications: (1) A Self-Biased, Buffered Reference (2) Megaohm Input Impedance Difference Amplifier	DN70	A Broadband Random Noise Generator	DN113	Big Power for Big Processors: The LTC1430 Synchronous Regulator
	DN24	Complex Data Acquisition System Uses Few Components	DN71	Regulator Circuit Generates Both 3.3V and 5V Outputs from 3.3V or 5V to Run Computers and RS232	DN114	The LTC1267 Dual Switching Regulator Controller Operates from High Input Voltages
	DN25	A Single Amplifier, Precision High Voltage Instrument Amp	DN72	Single LTC1149 Delivers 3.3V and 5V at 17W	DN115	Create a Virtual Ground with the LT1118-2.5 Sink/Source Voltage Regulator
	DN26	Auto-Zeroing A/D Offset Voltage	DN73	A Simple High Efficiency, Step-Down Switching Regulator	DN116	Micropower 12-Bit ADCs Shrink Board Space
	DN27	Design Considerations for RS232 Interfaces	DN74	Techniques for Deriving 3.3V from 5V Supplies	DN117	70mΩ Protected Load Management Switch
	DN28	A SPICE Op Amp Macromodel for the LT1012	DN75	RS232 Interface Circuits for 3.3V Systems	DN118	IR LocalTalk Link has Superior Range and Ambient Rejection
	DN29	A Single Supply RS232 Interface for Bipolar A/D Converters	DN76	PC Card Power Management Techniques	DN119	LT1580 Fast Response Low Dropout Regulator Achieves 0.4 Dropout at 4 Amps
	DN30	RS232 Transceiver with Automatic Power Shutdown Control	DN77	Single LTC1149 Provides 3.3V and 5V in Surface Mount	DN120	The LT1304: Micropower DC/DC Converter with Independent Low Battery Detector
Interface	DN31	Isolated Power Supplies for Local Area Networks	DN78	Triple Output 3.3V, 5V, and 12V High Efficiency Notebook Power Supply	DN121	New Micropower, Low Dropout Regulators Ease Battery Supply Designs
	DN32	A Simple Ultralow Dropout Regulator	DN79	Single 4-Input IC Gives Over 90dB Crosstalk Rejection at 10MHz and is Expandable	DN122	Dual Regulators Power Pentium Processor or Upgrade CPU
	DN33	Powering 3.3V Digital Systems	DN80	ESD Testing for RS232 Interface Circuits	DN123	Ultralow Power Comparators Include Reference
	DN34	Active Termination for SCSI-2 Bus	DN81	4 × 4 Video Crosspoint has 100MHz Bandwidth and 85dB Rejection at 10MHz	DN124	Fused Lead Battery Charger ICs Need No Heat Sinks
	DN35	12-Bit 8-Channel Data Acquisition System Interface to IBM PC Serial Port	DN82	5V to 3.3V Regulator with Fail-Safe Switchover	DN125	Monolithic DC/DC Converters Break Speed Limits to Shrink Board Space
	DN36	Ultralow Noise Op Amp Combines Chopper and Bipolar Op Amps	DN83	C-Load™ Op Amps Tame Instabilities	DN126	The LT1166: Power Output Stage Automatic Bias System Control IC
	DN37	High Dynamic Range Bandpass Filters for Communication	DN84	Source Resistance Induced Distortion in Op Amps	DN127	3V and 5V 12-Bit Rail-to-Rail Micropower DACs Combine Flexibility and Performance
	DN38	Applications for a New Micropower, Low Charge Injection Analog Switch	DN85	Interfacing to Apple LocalTalk Networks	DN128	LT1307 Single-Cell Micropower Fixed-Frequency DC/DC Converter Needs No Electrolytic Capacitors
	DN39	Low Power CMOS RS485 Transceiver	DN86	Ultralow Power, High Efficiency DC/DC Converter Operates Outside the Audio Band	DN129	Precision Receiver Delay Improves Data Transmission
	DN40	Designing with a New Family of Instrumentation Amplifiers	DN87	Fast Regulator Paces High Performance Processors	DN130	Power Supplies for Subscriber Line Interface Circuits
RF/Wireless	DN41	Switching Regulator Allows Alkalines to Replace NiCads	DN88	New 500ksp/s and 600ksp/s ADCs Match Needs of High Speed Applications	DN131	The LTC1446/LTC1446L: World's First Dual 12-Bit DACs in SO-8
	DN42	Chopper vs Bipolar Op Amps – An Unbiased Comparison	DN89	Applications of the LT1366 Rail-to-Rail Amplifier	DN132	Fast Current Feedback Amplifiers Tame Low Impedance Loads
	DN43	LT1056 Improved JFET Op Amp Macromodel Slews Asymmetrically	DN90	High Efficiency Power Sources for Pentium Processors	DN133	Low Input Voltage CCFL Power Supply
	DN44	A Single Ultralow Dropout Regulator			DN134	Telephone Ring-Tone Generation
	DN45	Signal Conditioning for Platinum Temperature Transducers			DN135	Efficient Processor Power System Needs no Heat Sink
	DN46	Current Feedback Amplifier "Do's and Don'ts"				
	DN47	Switching Regulator Generates Both Positive and Negative Supply with a Single Inductor				
Space, Military, Harsh Envir.						
Reference Material						

DN136	LT1462/LT1463/LT1464/LT1465: Micropower Dual and Quad JFET Op Amps Feature pA Input Bias Currents and C-Load Drive Capability	DN175	Off-Line Power Supply Does Not Require Filtering to Meet FCC Emission Requirements	DN216	PolyPhase Surface Mount Power Supply Meets AMD Athlon Processor Requirements with no Heat Sink
DN137	New Comparators Feature Micropower Operation Under All Conditions	DN176	LTC1387: 5V RS232/RS485 Multiprotocol Transceiver	DN217	LTC1645 Dual Channel Hot Swap Controller/Power Sequencer Allows Insertion Into a Live Backplane
DN138	Micropower ADC and DAC in SO-8 Give PCs a 12-Bit Analog Interface	DN177	16-Bit, 333ksps ADC Achieves 90dB SINAD, -100dB THD and No Missing Codes	DN218	High Current Dual DC/DC Converter Operates from 3.3V Input
DN139	Safe Hot Swapping Using the LTC1421	DN178	LT1534 Ultralow Noise Switching Regulator Controls EMI	DN219	24-Bit ADC Measures from DC to Daylight
DN140	Updated Operational Amplifier Selection Guide for Optimum Noise Performance	DN179	Micropower 600kHz Step-Up DC/DC Converter Delivers 5V at 1A from a Li-Ion Cell	DN220	Lowest Noise SOT-23 LDOs have 20 μ A Quiescent Current, 20 μ V _{RMS} Noise
DN141	LTC1436-PLL Low Noise Switching Regulator Helps Control EMI	DN180	16mW, Serial/Parallel 14-Bit ADC Samples at 200ksps	DN221	SOT-23 Micropower, Rail-to-Rail Op Amps Operate with Inputs Above the Positive Supply
DN142	Ultralow Quiescent Current DC/DC Converters for Light Load Applications	DN181	A High Efficiency 500kHz, 4.5A Step-Down Converter in an SO-8 Package	DN222	High Efficiency PolyPhase Converter Uses Two Inputs for Single Output
DN143	Single IC, Power Factor Corrected, Off-Line Supply	DN182	The LT1167: Single Resistor Sets the Gain of the Best Instrumentation Amplifier	DN223	SOT-23 DC/DC Converters Generate Up to \pm 35V Outputs and Consume only 20 μ A of Quiescent Current
DN144	LT1511 Low Dropout, Constant-Current/Constant-Voltage 3A Battery Charger	DN183	The LT1370: A 500kHz, 6A Monolithic Boost Converter	DN224	Active Voltage Positioning Reduces Output Capacitors
DN145	New Voltage References Are Smaller and More Precise	DN184	Micropower MSOP 10-Bit ADC Samples at 500ksps	DN225	Low Cost, High Efficiency 42A DC/DC Converter
DN146	LTC1415: 1.25MSPS, 12-Bit ADC Conserves Power and Signal Integrity on a Single 5V Supply	DN185	A Seven Nanosecond Comparator for Single-Supply Operation	DN226	A 24V/48V Hot Swap™ Controller
DN147	LTC1069-X: A New Family of 8th Order Monolithic Filters in an SO-8 Package	DN186	Optimized DC/DC Converter Loop Compensation Minimizes Number of Large Output Capacitors	DN227	Sense Milliamps to Kiloamps and Digitize to 12 Bits
DN148	Low Power, Fast Op Amps Have Low Distortion	DN187	A New Low Power, High Output Current Dual CFA Makes xDSL Line Driving Clean and Easy	DN228	Isolated RS485 Transceiver Breaks Ground Loops
DN149	LTC1392 Monitors System Temperature and Multiple Supply Voltages and Currents	DN188	Inexpensive Circuit Charges Lithium-Ion Cells	DN229	Don't be Fooled by Voltage Reference Long-Term Drift and Hysteresis
DN150	Single IC, Five Output Switching Power Supply System for Portable Electronics	DN189	Step-Up/Step-Down DC/DC Conversion without Inductors	DN230	Rail-to-Rail Amplifiers Operate on 2.7V with 20 μ V Offset
DN151	The LT1500/LT1501 Low Noise Micropower DC/DC Converters	DN190	Op Amp, Comparator and Reference IC Provides Micropower Monitoring Capability	DN231	Tiny Regulators Drive White LED Backlights
DN152	The LT1328: A Low Cost 4Mbps IrDA Receiver in MS8 and SO-8 Packages	DN191	The LT1776 Provides Power for the IEEE1394 "Fire Wire"	DN232	SOT-23 Switching Regulator with Integrated 1A Switch Delivers High Current Outputs in a Small Footprint
DN153	Micropower 4- and 8-Channel, 12-Bit ADCs Save Power and Space	DN192	12-Bit 3MSPS SAR ADC Solves Pipeline Problems	DN233	Unique High Efficiency 12V Converter Operates with Inputs from 6V to 28V
DN154	Short-Circuit Protection for Boost Regulators	DN193	SMBus Accelerator Improves Data Integrity	DN234	Low Cost PolyPhase DC/DC Converter Delivers High Current
DN155	Hot Swapping the PCI Bus	DN194	New Charger Topology Maximizes Battery Charging Speed	DN235	10 μ A Quiescent Current Step-Down Regulators Extend Standby Time in Handheld Products
DN156	High Power Synchronous Buck Converter Delivers Up to 50A	DN195	Get 100dB Stopband Attenuation with the LTC1562 Universal Filter Family	DN236	1- and 2-Channel No Latency $\Delta\Sigma$, 24-Bit ADCs Easily Digitize a Variety of Sensors, Part 1
DN157	UltraFast Linear Regulator Eliminates All Bulk Tantalum and Electrolytic Output Capacitors	DN196	LTC1626: Step-Down Converter Operates from Single Li-Ion Cell	DN237	1- and 2-Channel No Latency $\Delta\Sigma$, 24-Bit ADCs Easily Digitize a Variety of Sensors, Part 2
DN158	Isolated DC/DC Conversion with the LT1425	DN197	Power Solutions for the Device Bay	DN238	SOT-23 SMBus Fan Speed Controller Extends Battery Life and Reduces Noise
DN159	New 14-Bit, 800ksps ADC Upgrades 12-Bit Systems with 81.5dB SINAD, 95dB SFDR	DN198	Optimizing a DC/DC Converter's Output Capacitors with the LTC1435A	DN239	A Miniature, Low Dropout Battery Charger for Lithium-Ion Batteries
DN160	Dual PowerPath™ Controller Simplifies Power Management	DN199	LTC1735 Provides Low Cost, Efficient Mobile CPU Power	DN240	ADSL Modems That Use the LT1886 as a Line Driver Yield Long Reach and Fast Data Rates
DN161	The "Smart Rock": A Micropower Transponder	DN200	Hot Swapping the CompactPCI Bus	DN241	Fast Op Amps Operate Rail-to-Rail on 2.7V
DN162	LTC1474/LTC1475 High Efficiency Switching Regulators Draw Only 10 μ A Supply Current	DN201	A New, High Efficiency, Monolithic Synchronous Step-Down Regulator Works with Single or Dual Li-Ion Batteries	DN242	Li-Ion Charge Termination IC Interfaces with PWM Switchers
DN163	1 μ A Op Amp Permits Precision Portable Circuitry	DN202	60V, High Efficiency Buck Switching Regulators in SO-8	DN243	New Charge Pumps Offer Low Input and Output Noise
DN164	High Power CCFL Backlight Inverter for Desktop LCD Displays	DN203	RS485 Transceivers Sustain \pm 60V Faults	DN244	Simple Li-Ion Charge Termination Using the LT1505
DN165	New 16-Bit, 100ksps A/D Converter Runs on 5V Supply	DN204	UL Isolated Self-Powered Sensing	DN245	Free FilterCAD 3.0 Software Designs Filters Quickly and Easily
DN166	"LCD Bias" and "Backup Supply" Applications for the LT1316 Micropower DC/DC Converter	DN205	Tiny RGB Video Multiplexer Switches Pixels at 100MHz	DN246	3MHz Micropower Synchronous Boost Converters Deliver 3W From Two Cells in a Tiny MSOP Package
DN167	The LTC1590: Applications Versatility of Dual 12-Bit DAC	DN206	LTC1702/LTC1703 Switching Regulator Controllers Set a New Standard for Transient Response	DN247	Dual-Phase High Efficiency Mobile CPU Power Supply Minimizes Size and Thermal Stress
DN168	RS485 Transceivers Operate at 52Mbps Over 100 Feet of Unshielded Twisted Pair	DN207	LTC2400 High Accuracy Differential to Single-Ended Converter for \pm 5V Supplies	DN248	Rail-to-Rail I/O and 2.4V Operation Allow Ultrafast Comparators to be Used on Low Voltage Supplies
DN169	LTC1560-1 Tiny 1MHz Lowpass Filter Uses No Inductors	DN208	Low Dropout 550kHz DC/DC Controller Operates from Inputs as Low as 2V	DN249	LTC1628-SYNC Minimizes Input Capacitors in Multioutput, High Current Power Supplies
DN170	Battery Backup Regulator is Glitch-Free and Low Dropout	DN209	2-Step Voltage Regulation Improves Performance and Decreases CPU Temperature in Portable Computers	DN250	A Very Low Cost SOT-23 Li-Ion Battery Charger Requires Little Area and Few Components
DN171	Maximize Dynamic Range with the LT1466L Micropower Rail-to-Rail Op Amp	DN210	2-Phase, Dual Switching Regulator Fits in Tight Places	DN251	Replace Discrete Lowpass Filters with the LTC1563 Zero Design Effort, Two Item BoM and No Surprises
DN172	High Efficiency Linear and Switching Solutions for Splitting a Digital Supply	DN211	Low Cost, High Efficiency 30A Low Profile PolyPhase Converter	DN252	Current-Limited DC/DC Converter Simplifies USB Power Supplies
DN173	New 16-Bit SO-8 DAC Has 1LSB (Max) INL and DNL Over Industrial Temperature Range	DN212	LT1777 High Voltage, Low Noise Buck Switching Regulator		
DN174	10Mbps Multiple Protocol Serial Chip Set: Net1 and Net2 Compliance by Design	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		

Amps, Refs, Filters, Comps	DN253 LTC1646: Power Supply Isolation Controller Simplifies Hot Swapping the CompactPCI Bus for 5V/-3.3V-Only Applications	DN289 Single Interface Chip Controls Two Smart Cards	DN323 New Instrumentation Amplifiers Maximize Output Swing on Low Voltage Supplies
	DN254 LT1806: 325MHz Low Noise Rail-to-Rail SOT-23 Op Amp Saves Board Space	DN290 Monitor Network Compliant -48V Power Supplies	DN324 A Precision Active Filter Block with Repeatable Performance to 10MHz
	DN255 LT1619: Tiny Boost Controller Provides Efficient Solutions for Low Voltage Inputs	DN291 Design Low Noise Differential Circuits Using the LT1567 Dual Amplifier Building Block	DN325 High Efficiency ThinSOT White LED Driver Features Internal Switch and Schottky Diode
Power Management	DN256 1.4MHz Switching Regulator Draws only 10µA Supply Current	DN292 Very Low Dropout (VLD0™) Linear Regulators Supply Low Voltage Outputs	DN326 3-Phase LTC3733 Provides High Performance Power Solutions for AMD Opteron and Athlon 64 Processors
	DN257 Resolving Very Small Temperature Differences with the LTC2402	DN293 Using the LTC6900 Low Power SOT-23 Oscillator as a VCO	DN327 Video Signal Distribution using Low Supply Voltage Amplifiers
	DN258 High Efficiency I/O Power Generation for Mobile Pentium III Microprocessors	DN294 250ksp/s, 16-Bit Micropower ADC Offers an Excellent Combination of Size, Power and Speed	DN328 Monolithic Synchronous Regulator Drives 4A Loads with Few External Components
Data Conversion	DN259 A-to-D Converter Does Frequency Translation	DN295 High Efficiency Adaptable Power Supply for XENPAK 10Gb/s Ethernet Transceivers	DN329 Addressable I ² C Bus Buffer Provides Capacitance Buffering, Live Insertion and Nested Addressing in 2-Wire Bus Systems
	DN260 Isolated Flyback Converter Regulates without an Optocoupler	DN296 LTC1871 No R _{SENSE} Controller is Small and Efficient in Boost, Flyback and SEPIC Applications	DN330A High Input Voltage Monolithic Switcher Steps Up and Down Using a Single Inductor
	DN261 Chip Set Offers Low Cost Alternative to 48V Telecom Modules	DN297 16-Channel, 24-Bit ΔΣ ADC Provides Small, Flexible and Accurate Solutions for Data Acquisition	DN331 Dual 25µV Micropower Op Amp Fits in 3mm × 3mm Package
Interface	DN262 SOT-23 1kHz to 30MHz Oscillator with Single Resistor Frequency Set	DN298 The LT1970 Power Op Amp Provides On-the-Fly Adjustable Current Limit for Flexibility and Load Protection in High Current Applications	DN332 4-Phase Monolithic Synchronous Boost Converter Delivers 2.5A with Output Disconnect in a 5mm × 5mm QFN Package
	DN263 LTC4300-1 Provides Data and Clock Hot Swapping and Capacitance Buffering in 2-Wire Bus Systems	DN299 Multiple Output Isolated Power Supply Achieves High Efficiency with Secondary Side Synchronous Post Regulator	DN333 Easy-to-Use Differential Amplifiers Simplify Balanced Signal Designs
	DN264 High Power Desktop LCD Backlight Controller Supports Wide Dimming Ratios while Maximizing Lamp Lifetime	DN300 Monolithic Synchronous Step-Down Regulators Pack 600mA Current Rating in a ThinSOT™ Package	DN334 2-Phase DC/DC Controller Makes Fast, Efficient and Compact Power Supplies
RF/Wireless	DN265 Hot Swap Circuit Meets InfiniBand Specification	DN301 60V/3A Step-Down DC/DC Converter Maintains High Efficiency Over a Wide Input Range	DN335 Wideband RF ICs for Power Detection and Control
	DN266 LT1880 SOT-23 Superbeta Op Amp Saves Board Space in Precision Applications	DN302 Ultraprecise Instrumentation Amplifier Makes Robust Thermocouple Interface	DN336 Advanced Topology USB Battery Charger Optimizes Power Utilization for Faster Charging
	DN267 High Efficiency White LED Driver Guarantees Matching LED Brightness	DN303 Photoflash Capacitor Charger Has Fast Efficient Charging and Low Battery Drain	DN337 Multiple Output Range 16-Bit DAC Design Made Simple
Space, Military, Harsh Envir.	DN268 Tiny Buck Regulator Accepts Inputs from 3.6V to 25V and Eliminates Heat Sink	DN304 4MHz Monolithic Synchronous Step-Down Regulators Bring High Efficiency to Space-Sensitive Applications	DN338 Power over Ethernet Isolated Power Supply Delivers 11.5W at 90% Efficiency
	DN269 60V Step-Down DC/DC Converter Maintains High Efficiency	DN305 Dual Monolithic Buck Regulator Provides Two 1.4A Outputs with 2-Phase Switching to Reduce EMI	DN339 An Autoranging True RMS Converter
	DN270 LTC1840: I ² C Fan Control Ensures Continuous System Cooling	DN306 High Performance Op Amps Deliver Precision Waveform Synthesis	DN340 DC/DC Converter Drives Lumileds White LEDs From a Variety of Power Sources
Reference Material	DN271 Tiny Step-Up/Step-Down Power Supply Delivers 3.3V at 1.3A in Battery-Powered Devices	DN307 Supply 2A Pulses for GSM Transmission From 500mA USB or PCMCIA Ports	DN341 16-Bit ADC Simplifies Current Measurements
	DN272 Multiple Power Supplies Track During Power Up	DN308 100MHz Op Amp Features Low Noise Rail-to-Rail Performance While Consuming only 2.5mA	DN342 Dual Smart Battery Charger Simplifies Battery Backup for Servers
	DN273 Fiber Optic Communication Systems Benefit from Tiny, Low Noise Avalanche Photodiode Bias Supply	DN309 3A, 2MHz Monolithic Synchronous Step-Down Regulator Provides a Compact Solution for DDR Memory Termination	DN343 Video Difference Amplifier Brings Versatility to Low Voltage Applications
	DN274 12-Bit ADC with Sequencer Simplifies Multiple-Input Applications	DN310 New Step-Down Charge Pumps are Tiny, Efficient and Very Low Noise	DN344 Flyback Controller Improves Cross Regulation for Multiple Output Applications
	DN275 Single Inductor, Tiny Buck-Boost Converter Provides 95% Efficiency in Lithium-Ion to 3.3V Applications	DN311 Dual Output Supply Powers FPGAs from 3.3V and 5V Inputs	DN345 Basic Flashlamp Illumination Circuitry for Cellular Telephones/Cameras
	DN276 LTC1564: A Digitally Tuned Antialiasing/Reconstruction Filter Simplifies High Performance DSP Design	DN312 High Performance 3-Phase Power Supply Delivers 65A and High Efficiency Over the Entire Load Range	DN346 PCI Express Power and Mini Card Solutions
	DN277 Dual Battery Power Manager Increases Run Time by 12% and Cuts Charge Time in Half	DN313 High Frequency Active Antialiasing Filters	DN347 Simple Circuit Replaces and Improves on Power Modules at Less than Half the Price
	DN278 Efficient DC/DC Converter Provides Two 15A Outputs From a 3.3V Backplane	DN314 80V Linear Regulator is Micropower	DN348 Precise Gain without External Resistors
	DN279 Microprocessor Core Supply Voltage Set by I ² C™ Bus without VID Lines	DN315 White LED Driver in Tiny SC70 Package Delivers High Efficiency and Uniform LED Brightness	DN349 Quad Output Switching Converter Provides Power for Large TFT LCD Panels
	DN280 Tiny and Efficient Boost Converter Generates 5V at 3A from 3.3V Bus	DN316 Ultralow Noise Switching Power Supplies Simplify EMI Compliance	DN350 Fully Autonomous IEEE 802.3af Power over Ethernet Midspan PSE Requires No Microcontroller
	DN281 Wide Input Range, High Efficiency DDR Termination Power Supply Achieves Fast Transient Response	DN317 Boost Regulator Makes Low Profile SEPIC with Both Step-Up and Step-Down Capability	DN351 Versatile Micropower Voltage Reference Provides Resistor Programmable Output From 0.4V to 18V
	DN282 Reduce Component Count and Improve Efficiency in SLIC and RF Power Supplies	DN318 Efficient Dual Polarity Output Converter Fits into Tight Spaces	DN352 60V, 3A Step-Down DC/DC Converter Has Low Dropout and 100µA Quiescent Current
	DN283 Li-Ion Linear Charger Allows Fast, Full Current Charging While Limiting PC Board Temperature to 85°C	DN319 Low Voltage Hot Swap Controller Ignores Backplane Noise and Surges	DN353 AdvancedTCA Hot Swap Controller Eases Power Distribution
	DN284 Efficient, Compact 2-Phase Power Supply Delivers 40A to Intel Mobile CPUs	DN320 New ICs Simplify Battery Charging from the USB	DN354 2-Phase Boost Converter Delivers 10W from a 3mm × 3mm DFN Package
	DN285 Cost Effective, Low Profile, High Efficiency 42A Supply Powers AMD Hammer Processors	DN321 Dual Micropower Comparator with Integrated 400mV Reference Simplifies Monitor and Control Functions	DN355 Op Amp Selection Guide for Optimum Noise Performance
	DN286 Fast and Accurate 80MHz Amplifier Draws Only 2mA	DN322 High Current Step-Down Controller Regulates to 0.6V Output from 3V Input	DN356 Dual Monolithic Ideal Diode Manages Multiple Power Inputs
	DN287 High Voltage Buck Regulators Provide High Current, Low Profile Power Solutions for FireWire Peripherals		DN357 Tiny, Highly Flexible, Dual Boost/Inverter Tracks Supplies
	DN288 RMS-to-DC Conversion Just Got Easy		DN358 Compact Step-Up Converter Conserves Battery Power
			DN359 Dual DC/DC Converter with Integrated Schottkys Generates ±40V Outputs and Consumes only 40µA Quiescent Current

DN360	Protecting and Monitoring Hot Swappable Cards in High Availability Systems	DN402	Electronic Circuit Breaker in Small DFN Package Eliminates Sense Resistor	DN440	Versatile TFT LCD Bias Supply and White LED Driver in a 4mm × 4mm QFN
DN361	Simple Battery Circuit Extends Power over Ethernet (PoE) Peak Current	DN403	A Compact Dual Step-Down Converter with V_{OUT} Tracking and Sequencing	DN441	Compact Triple Step-Down Regulator Offers LDO Driver and Output Tracking and Sequencing
DN362	Precision LVDT Signal Conditioning using Direct RMS to DC Conversion	DN404	Dual Monolithic Step-Down Switching Regulator Provides 1.6A Outputs with Reduced EMI and V_{OUT} as Low as 0.8V	DN442	Compact I ² C-Controllable Quad Synchronous Step-Down DC/DC Regulator for Power-Conscious Portable Processors
DN363	Replace ORing Diodes with MOSFETs to Reduce Heat and Save Space	DN405	Versatile Current Source Safely and Quickly Charges Everything from Large Capacitors to Batteries	DN443	Step-Down Synchronous Controller Operates from Inputs Down to 2.2V
DN364	High Accuracy Synchronous Step-Down Controller Provides Output Tracking and Programmable Margining	DN406	Versatile High Power LED Driver Controller Simplifies Design	DN444	Ideal Diodes Protect Against Power Supply Wiring Errors
DN365	ThinSOT Switching Regulator Controls Inrush Current	DN407	Dual Current-Sense Amplifiers Simplify H-Bridge Load Monitoring	DN445	μModule LED Driver Integrates All Circuitry, Including the Inductor, in a Surface Mount Package
DN366	Low Distortion, Low Noise Differential Amplifier Drives High Speed ADCs in Demanding Communications Transceivers	DN408	Versatile Voltage Monitors Simplify Detection of Overvoltage and Undervoltage Faults	DN446	Dual 8A DC/DC μModule Regulator is Easily Paralleled for 16A
DN367	Tiny Versatile Buck Regulators Operate from 3.6V to 36V Input	DN409	Triple Output 3-Phase Controller Saves Space and Improves Performance in High Density Power Converters	DN447	A Complete Compact APD Bias Solution for a 10Gbits/s GPON System
DN368	“Easy Drive” Delta-Sigma Analog-to-Digital Converters Cancel Input Current Errors	DN410	Flyback Controller Simplifies Design of Low Input Voltage DC/DC Converters	DN448	12-Bit DAC in TSOT-23 Includes Bidirectional REF Pin for Connection to Op Amp or External High Precision Reference
DN369	Industry’s First 4-Switch Buck-Boost Controller Achieves Highest Efficiency Using a Single Inductor	DN411	Simple and Compact 4-Output Point-of-Load DC/DC μModule System	DN449	Triple LED Driver in 4mm × 5mm QFN Supports LCD Backlights in Buck, Boost or Buck-Boost Modes and Delivers 3000:1 PWM Dimming Ratio
DN370	Buck or Boost: Rugged, Fast 60V Synchronous Controller Does Both	DN412	36V 2A Buck Regulator Integrates Power Schottky	DN450	Supercapacitors Can Replace a Backup Battery for Power Ride-Through Applications
DN371	High Efficiency 2-Phase Boost Converter Minimizes Input and Output Current Ripple	DN413	Wide Input Voltage Range Buck-Boost Converter Simplifies Design of Variable Input Supplies	DN451	Current Sense Amp Inputs Work from -0.3V to 44V Independent of Supply
DN372	Power Supply Tracker Can Also Margin Supplies	DN414	Micropower Op Amps Work Down to 1.8V Total Supply, Guaranteed over Temperature	DN452	Power Monitor for Automotive and Telecom Applications Includes ADC and I ² C Interface
DN373	ThinSOT Micropower Buck Regulator Has Low Output Ripple	DN415	Switching USB Power Manager with PowerPath Control Offers Fastest Charge Time with Lowest Heat	DN453	4-Phase Boost Converter Delivers 384W with no Heat Sink
DN374	Monitor and Protect Automotive Systems with Integrated Current Sensing	DN417	Drive Large TFT-LCD Displays with a Space-Saving Triple-Output Regulator	DN454	Single-Ended to Differential Amplifier Design Tips
DN375	LT5528 WCDMA ACPR and AltCPR Measurements	DN418	High Linearity Components Simplify Direct Conversion Receiver Designs	DN455	Low Profile Synchronous, 2-Phase Boost Converter Produces 200W with 98% Efficiency
DN376	Monolithic Converter Drives High Power LEDs	DN419	One IC Generates Three Sub-2V Power Rails from a Li-Ion Cell	DN456	Digitize a \$1000 Sensor with a \$1 Analog-to-Digital Converter
DN377	Isolated Converters have Buck Simplicity and Performance	DN420	USB Power Solution Includes Switching Power Manager, Battery Charger, Three Synchronous Buck Regulators and LDO	DN457	Monolithic Synchronous Step-Down Regulator Delivers up to 12A from a Wide Input Voltage Range
DN378	Monolithic Step-Down Regulator Withstands the Rigors of Automotive Environments and Consumes Only 100μA of Quiescent Current	DN421	An Easy Way to Add Auxiliary Control Functions to Hot Swap Cards	DN458	Buck Converter Eases the Task of Designing Auxiliary Low Voltage Negative Rails
DN379	Easy Drive™ ADCs Simplify Measurement of High Impedance Sensors	DN422	Tiny Universal LED Driver Can Gradate, Blink or Turn On Nine Individual LEDs with Minimal External Control	DN459	Triple Buck Regulator Features 1-Wire Dynamically Programmable Output Voltages
DN380	Fast, High Efficiency, Standalone NiMH/NiCd Battery Charging	DN423	Ultraprecise Current Sense Amplifier Dramatically Enhances Efficiency and Dynamic Range	DN460	Dual Output Buck Regulator with Current Partitioning Optimizes Efficiency in Space-Sensitive Applications
DN381	Baseband Circuits for an RFID Receiver	DN424	Buck-Boost Controller Simplifies Design of DC/DC Converters for Handheld Products	DN461	100V Controller Drives High Power LED Strings from Just about Any Input
DN382	Low EMI Synchronous DC/DC Step-Down Controllers Offer Programmable Output Tracking	DN425	High Power PoE PD Interface with Integrated Flyback Controller	DN462	Reduce the Cost and Complexity of Medium LCD LED Backlights with a Single Inductor LED Driver for 60 LEDs
DN383	High Voltage Current Mode Step-Down Converter with Low Power Standby Capability	DN426	6-Channel SAR ADCs for Industrial Monitoring and Portable Instruments	DN463	Upgrade Your Microcontroller ADC to True 12-Bit Performance
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