High Voltage Chip Resistors

FEATURES

- High voltage up to 3000 volts
- Outstanding stability < 0.5 %
- Flow solderable
- Custom sizes available
- Automatic placement capability
- Top and wraparound terminations
- Tape and reel packaging available
- Internationally standardized sizes
- Nickel barrier available

STANDARD ELECTRICAL SPECIFICATIONS

MODEL*	RESISTANCE RANGE* (Ohms)	POWER RATING* (MW)	VOLTAGE RATING (V) (Max.)
CRHV1206	2M - 8G	300	1500
CRHV1210	4M - 10G	450	1750
CRHV2010	6M - 35G	500	2000
CRHV2510	10M - 40G	600	2500
CRHV2512	12M - 50G	700	3000

*For non-standard sizes, lower values or higher power rating requirement, contact factory at +1-909-923-3313.

ELECTRICAL SPECIFICATIONS

(Reference only: Not for all values specified. Consult factory for your size and value.)

Resistance Range: 2 MΩ to 50 GΩ
Resistance Tolerance: ± 1 %, ± 2 %, ± 5 %, ± 10 %, ± 20 %.
Temperature Coefficient: ± 100 ppm/°C. (- 55 °C to + 150 °C)
Voltage Rating: 1500 V - 3000 V.
Short Time Overload: Less than 0.5 % ΔR.

MECHANICAL SPECIFICATIONS

Construction: 96 % alumina substrate with proprietary cermet resistance element and specified termination material.

ENVIRONMENTAL SPECIFICATIONS

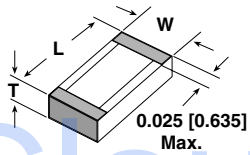
Operating Temperature: - 55 °C to + 150 °C
Life: Less than 0.5 % change when tested at full rated power
(Reference only: Not for all values specified. Consult factory for your size and value.)

VOLTAGE COEFFICIENT OF RESISTANCE CHART

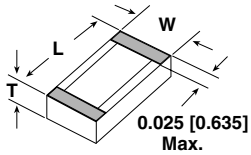
SIZE	VALUE (Ohms)	VCR (PPM/V)	FURTHER INSTRUCTIONS
CRHV1206	2M - 199M	25	Values over 200M, consult factory.
CRHV1210	4M - 200M	25	Values over 200M, consult factory.
CRHV2010	6M - 99M	15	Values over 1G, consult factory.
	100M - 1G	20	
CRHV2510	10M - 99M	10	Values over 1G, consult factory.
	100M - 1G	15	
CRHV2512	12M - 999M	10	Values over 5G, consult factory.
	1G - 5G	25	

DIMENSIONS in inches [millimeters]

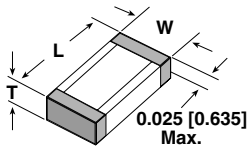
Termination Style A
(3-sided wraparound)



Termination Style B
(Top conductor only)

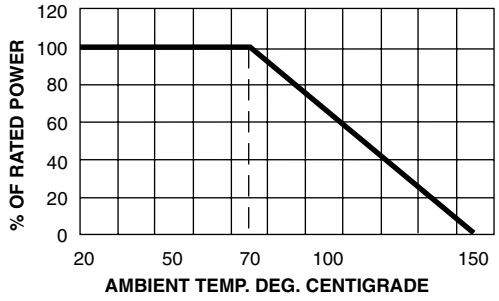


Termination Style C
(5-sided wraparound)



MODEL	LENGTH (L) ± 0.006 [0.152]	WIDTH (W) ± 0.006 [0.152]	THICKNESS (T) ± 0.002 [0.051]
CRHV1206	0.125	0.063	0.025
CRHV1210	0.125	0.100	0.025
CRHV2010	0.200	0.100	0.025
CRHV2510	0.250	0.100	0.025
CRHV2512	0.250	0.126	0.025

DERATING CURVE



(Reference only: Not for all values specified. Consult factory for your size and value.)

ORDERING INFORMATION

CRHV	**1206**	**A**	**F**	**1006**	**F**	**100**	**e1**
MODEL	SIZE	TERMINATION STYLE	TERMINATION MATERIAL	VALUE	TOLERANCE	TCR	SOLDER TERMINATION
		A = 3 sided B = Top only C = 5 sided	A = Palladium Silver B = Platinum Gold C = Gold D = Platinum Silver E = Palladium Gold F = Nickel Barrier	The first 3 digits are significant figures. Last digit specifies the number of zeros to follow. **Example:** 1008 = 10 Gigohms.	F = ± 1 % G = ± 2 % J = ± 5 % K = ± 10 % M = ± 20 %	100 = ± 100 ppm/°C 200 = ± 200 ppm/°C 350 = ± 350 ppm/°C 500 = ± 500 ppm/°C	S2 = Sn62 e1 = Sn95/5

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