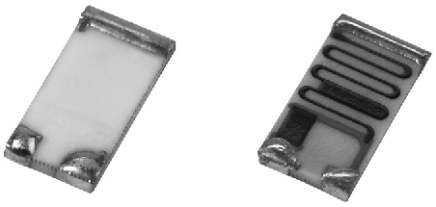
High Voltage Chip Divider



FEATURES

- High voltage up to 3000 volts
- Outstanding Stability
- Typical resistance ratios of 250:1, 500:1, etc
- Flow solderable
- Tape & Reel packaging available
- Top and Wraparound termination
- Nickel Barrier available

ELECTRICAL SPECIFICATIONS

Resistance range: 1 MΩ to 20 GΩ

Resistance tolerance: ± 1 % to ± 20 %

Power rating: See table

Voltage coefficient: See table

Temperature coefficient: See table

Ratio tracking: See table

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 value.)

STANDARD ELECTRICAL SPECIFICATIONS

RESISTANCE (OHMS)	POWER RATING (MW)	VOLTAGE RATING (V MAX)
20 M - 20 G	Contact Factory	3000

VOLTAGE & TEMPERATURE COEFFICIENTS OF RESISTANCE CHART TYPICAL

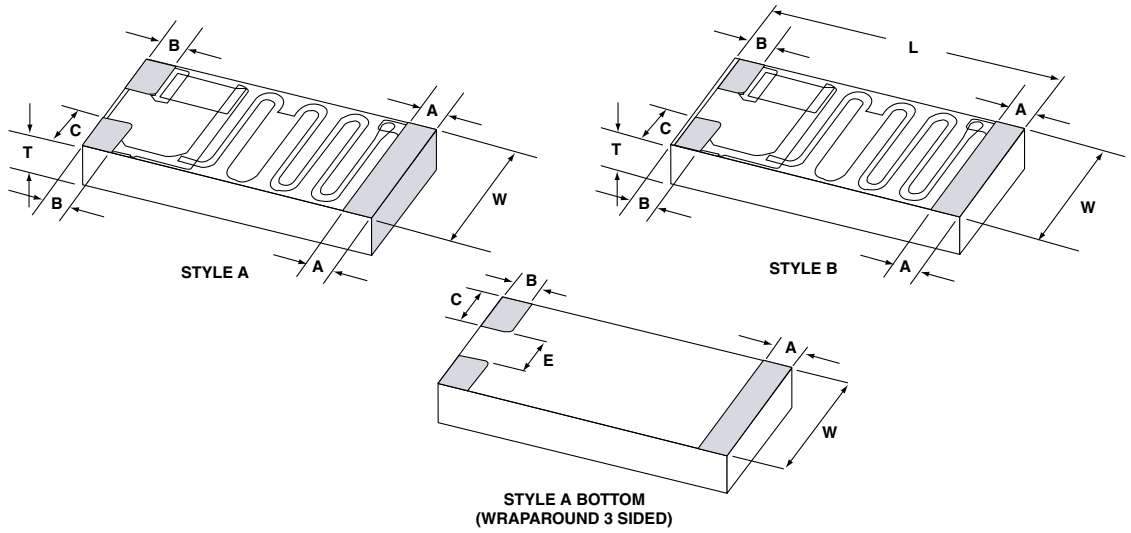
RESISTANCE (OHMS)	RATIO (TYPICAL)	VCR (PPM/V)	TCR (PPM/°C) - 55 °C to + 150 °C
20 M	250:1	5	260
150 M	300:1	5	80
800 M	300:1	10	50
20 G	700:1	90	160

RATIO TRACKING (PPM/°C)

RESISTANCE (OHMS)	RATIO (TYPICAL)	COLD (+ 25 °C to - 50 °C)	HOT (+ 25 °C to + 150 °C)
20 M	250:1	5	260
150 M	300:1	5	80
800 M	300:1	10	50
20 G	700:1	90	160

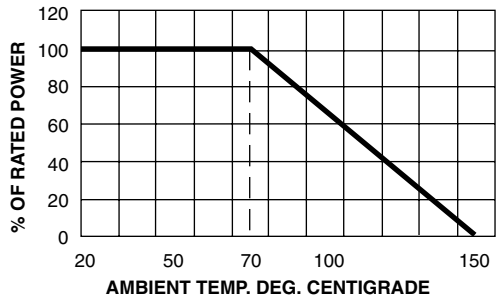
*** Contact Factory for other Ratio's

DIMENSIONAL CONFIGURATIONS in inches [millimeters]



TERMINATION	LENGTH (L) ± 0.006 [0.152]	WIDTH (W) ± 0.006 [0.152]	THICKNESS (T) ± 0.002 [0.051]	A ± 0.005	B ± 0.005	C ± 0.005	E ± 0.005
STYLE A (Wraparound 3 Sided)	0.250	0.126	0.025	0.025	0.025	0.040	0.046
STYLE B (Top only)	0.240	0.126	0.025	0.025	0.025	0.040	-

DERATING CURVE



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

ORDERING INFORMATION

CDHV2512	A	A	2005	J	2500	G	e1
MODEL	TERMINATION STYLE	TERMINATION MATERIAL	VALUE R1	ABSOLUTE TOLERANCE	RATIO R1/R2	RATIO TOLERANCE	TERMINATION MATERIAL
	A = Wraparound B = Top only	A = Palladium Silver B = Platinum Gold C = Gold D = Platinum Silver E = Palladium Gold F = Nickel Barrier	**Resistance Value of R1:** The first 3 digits are significant. The last digit specifies the number of zeros to follow.	F = 1 % G = 2 % H = 3 % J = 5 % K = 10 % M = 20 %	The first 3 digits are significant. The last digit specifies the number of zeros to follow.	F = 1 % G = 2 % H = 3 % J = 5 %	S2 = Sn62 e1 = Sn95/5

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