

RESISTOR DIVIDER

CDHV



High-Voltage Chip Resistor Divider

KEY BENEFITS

- High-voltage capability to 3000 Volts
- Small physical size (2512 case size)
- Outstanding ratio stability: < 0.3% at 70 °C at 2000 hours, full power
- Standard and custom ratio values covering multiple ratio dividers: 10:1 to 500:1

APPLICATIONS

- High-voltage power supplies
- Inverters
- Regulators
- High-voltage control circuits

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: $\pm 1\%$ to $\pm 20\%$
Power rating: See table

Voltage coefficient: See table

Temperature coefficient: See table

Ratio tracking: See table

STANDARD ELECTRICAL SPECIFICATIONS

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

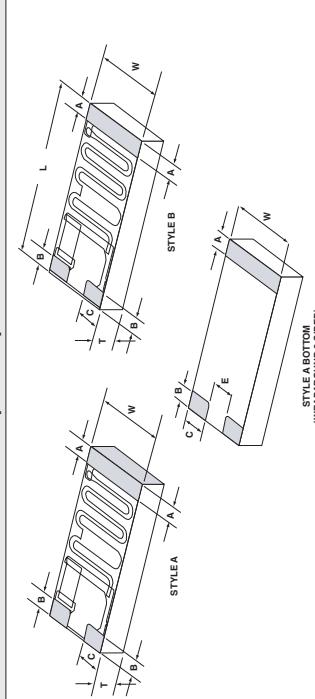
VOLTAGE & TEMPERATURE COEFFICIENTS OF RESISTANCE CHART TYPICAL

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

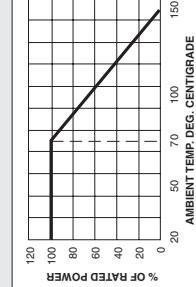
RATIO TRACKING (PPM/°C)

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]

**STYLE A BOTTOM
(WRAPAROUND SIDED)**

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 Sided)	0.250	0.126	0.025	0.025	0.040	0.046	-
STYLE B (Top only)	0.240	0.126	0.025	0.025	0.040	0.046	-

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	TERMINATION MATERIAL	

A = Wraparound
B = Top only
C = Gold
D = Palladium Silver
E = Platinum Silver
F = Palladium Gold
G = Nickel Barrier

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 last digit specifies the number of zeros to follow.

F = 1 %
G = 2 %
H = 3 %
J = 5 %
K = 10 %
M = 20 %

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