

HVCV SERIES

High Voltage Low VCR Chip Resistors

Advantages

Our patented Micropen® precision printing technology provides superior precision, thick-film high voltage, low VCR surface mount resistors. Ohmcraft's Micropenned serpentine patterned resistors produce superior electrical characteristics:

- Voltage Ratings to 3,000 Volts
- Resistance Values to 100 Megaohms
- Ultra High Stability
- Very Low Noise
- Tolerances to 1%
- TCR to 100 ppm/°C
- VCR to 2 ppm/V
- Custom Configurations



Electrical Specifications

Case Size Ratings	TCR (±ppm/°C)	Tolerance				
		1%	2%	5%	10%	20%
1206 330mW 1500V 5ppm/V	100	10M-100M	10M-100M	10M-100M	10M-100M	10M-100M
	200	10M-100M	10M-100M	10M-100M	10M-100M	10M-100M
2512 2W 3000V 2ppm/V	100	10M-100M	10M-100M	10M-100M	10M-100M	10M-100M
	200	10M-100M	10M-100M	10M-100M	10M-100M	10M-100M

The continuous maximum applied voltage cannot exceed the maximum power rating and is resistance value dependent.
For custom configurations, consult ohmcraftsales@exxelia.com.

How to Order

HVCV	+		+		+		+		+	
Type		Case Size		TCR		Value		Tolerance		Termin. on
High-Voltage Low VCR Chips		See dimension table.		K ±100ppm/°C L ±200ppm/°C		Resistance value expressed as a four digit number, where the first three numbers are the significant value, and the fourth number is the number of zeroes.		F ±1.0% G ±2.0% J ±5.0% K ±10% L ±20%		T Solderable wraparound material Sn99.9 on Ni barrier, RoHS B Solderable wraparound Sn63Pb37 solder over Ni barrier

Packaging options: Bulk, Tape & Reel or Flat Pack

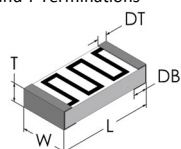
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Chip Dimensions

Wrap-around

B and T Terminations



Case Size	Length	Width	Thickness (Max.)	DT	DB	Units
1206	0.126 +0.01/-0.005	0.063 ±0.005	0.030	0.010 ±0.005	0.020 ±0.010	inches
	3.20 +0.25/-0.13	1.60 ±0.13	0.76	0.25 ±0.13	0.51 ±0.25	mm
2512	0.250 +0.01/-0.005	0.125 ±0.005	0.030	0.020 ±0.010	0.024 ±0.010	inches
	6.35 +0.25/-0.13	3.18 ±0.13	0.76	0.51 ±0.25	0.61 ±0.25	mm

Typical Performance Characteristics

Test	Maximum ΔR
Short Time Overload	TBD
Load Life	TBD
Thermal Shock	TBD
Resistance to Soldering Heat	TBD

Parameter	Typical
Operating Temperature	-55°C to 150°C
TCR	Measured from 25°C to 75°C
Resistance Value	Measured at 100 VDC
VCR	Measured between 100VDC and 1000VDC

Material Construction

Resistive Element	Thick Film
Substrate	96% Alumina
Encapsulation	Epoxy
Termination	Tin over nickel barrier or lead solder over nickel barrier.

Tape and Reel Specifications

Parts are packaged in accordance with EIA-481 tape and reel specifications.

Custom Configurations Available
Upon Request

Please consult with our knowledgeable sales staff for help specifying custom parts to meet your needs:

Power Derating Curve

