HVCD SERIES

High Voltage Chip Dividers

Advantages

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

- Voltage Ratings to 4000 Volts
- Resistance Values to 10 Gigohms
- Ratio Tolerances to 1%

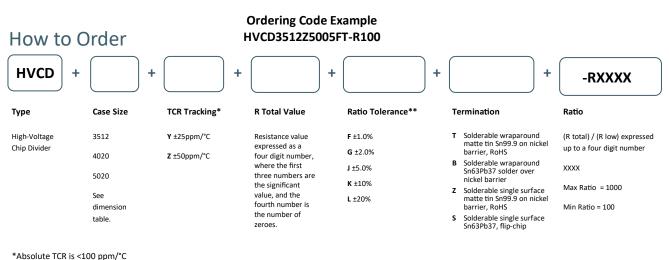
- Ultra High Stability
- Very Low Noise
- VCR to 1 ppm/V

- TCR to 100 ppm/°C
- TCR Tracking to 25 ppm/°C
- Custom Ratios and Configurations

Electrical Specifications

Case Size Ratings	TCR Tracking (±ppm/°C)	Ratio Tolerance 1%, 2%, 5%, 10%, 20%
3512	25	40M-10G
100 mW 2000V	50	< 40M Voltage is Wattage Limited
4020	25	90M-10G
100 mW 3000V	50	< 90M Voltage is Wattage Limited
5020	25	160M-10G
100 mW 4000V	50	< 160M Voltage is Wattage Limited

For custom sizes and configurations, consult us.



**Total Resistance Tolerance is $\pm 15\%$ (> $10G\Omega \pm 20\%$)

Packaging options: Bulk, Tape & Reel or Flat Pack

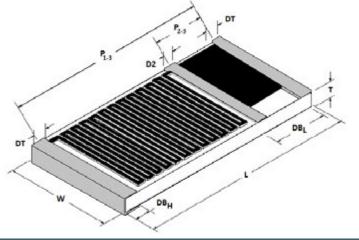
High Voltage Chip Resistors

HVCD SERIES

Chip Dimensions

Wrap-around

B and T Terminations



Case Size	Length	Width	Thickness (Max.)	DT	D2	DB _H	DBL	P ₁₋₃	P ₂₋₃	Units
3512	0.350 +0.01/-0.005	0.125 ±0.005	0.030	0.020 ±0.010	0.020 ±0.010	0.020 ±0.010	0.065 ±0.010	0.330 +0.010	0.085 ±0.010	inches
	8.89 +0.25/-0.13	3.18 ±0.13	0.76	0.51 ±0.25	0.51 ±0.25	0.51 ±0.25	1.65 ±0.25	8.38 +0.25	2.16 ±0.25	mm
4020	0.400 +0.01/-0.005	0.200 ±0.005	0.030	0.025 ±0.010	0.020 ±0.010	0.025 ±0.010	0.070 ±0.010	0.375 +0.010	0.095 ±0.010	inches
	10.16 +0.25/-0.13	5.08 ±0.13	0.76	0.64 ±0.25	0.51 ±0.25	0.64 ±0.25	1.78 ±0.25	9.53 +0.25	2.41 ±0.25	mm
5020	0.500 +0.01/-0.005	0.200 ±0.005	0.030	0.025 ±0.010	0.020 ±0.010	0.025 ±0.010	0.070 ±0.010	0.475 +0.010	0.120 ±0.010	inches
	12.70 +0.25/-0.13	5.08 ±0.13	0.76	0.64 ±0.25	0.51 ±0.25	0.64 ±0.25	1.78 ±0.25	12.07 +0.25	3.05 ±0.25	mm

Typical Performance Characteristics

Test	Maximum ΔR
Short Time Overload	0.1%
Load Life	0.1%
Thermal Shock	0.1%
Resistance to Soldering Heat	0.05%

Material Construction

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

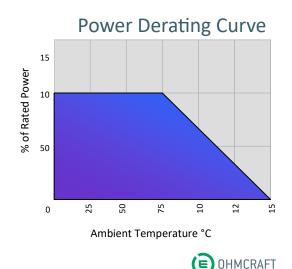
Custom Configurations Available Upon Request

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

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

Tape and Reel Specifications

Parts are packaged in accordance with EIA-481 tape and reel specifications. T&R White Side Up, Narrow DB_H Pad Towards Sprocket Holes



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