CDHV 2512



Vishay Techno

Thick Film Chip Dividers, High Voltage



ELECTRICAL SPECIFICATIONS

Resistance Range: 1 M Ω to 20 G Ω **Resistance Tolerance:** $\pm 1 \%$ to $\pm 20 \%$ 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

FEATURES

- High voltage up to 3000 V
- Typical resistance ratios of 250:1, 500:1, etc.
- Flow solderable
- Tape and reel packaging available
- RoHS • Available with either wraparound terminations COMPLIANT or as a single termination flip chip
- Suitable for solderable, epoxy bondable, or wire bondable applications
- Termination: Gold, palladium silver, platinum gold, platinum silver, platinum palladium gold or solder-coated nickel barrier available
- Multiple styles, termination materials and configurations, allow wide design flexibility
- Non-magnetic terminations available
- Lead (Pb)-free version is RoHS compliant

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: - 55 °C to + 150 °C

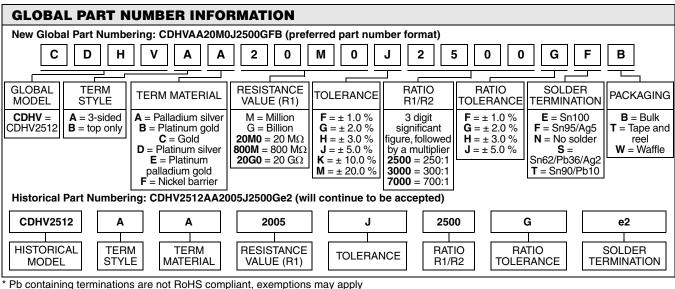
Life: Less than 0.5 % change when tested at full rated power (Reference only: Not for all values specified. Consult factory for your size and value.)

STANDARD ELECTRICAL SPECIFICATIONS				
RESISTANCE (Ω) ⁽¹⁾	POWER RATING (mW)	VOLTAGE RATING (V max.)		
20M to 20G	contact factory	3000		

Note

⁽¹⁾ Resistance values below 1 G Ω are calibrated at 100 V_{DC}, and values of 1 G Ω and above are calibrated at 1000 V_{DC}. Calibration at other voltages available upon request.

VOLTAGE AND TEMPERATURE COEFFICIENTS OF RESISTANCE CHART TYPICAL					
RESISTANCE (Ω)	RATIO (typical)	VCR (ppm/V)	TCR (ppm/°C) - 55 °C to + 150 °C		
20M	250:1	5	260		
150M	300:1	5	80		
800M	300:1	10	50		
20G	700:1	90	160		



For technical questions, contact: te1resistors@vishay.com



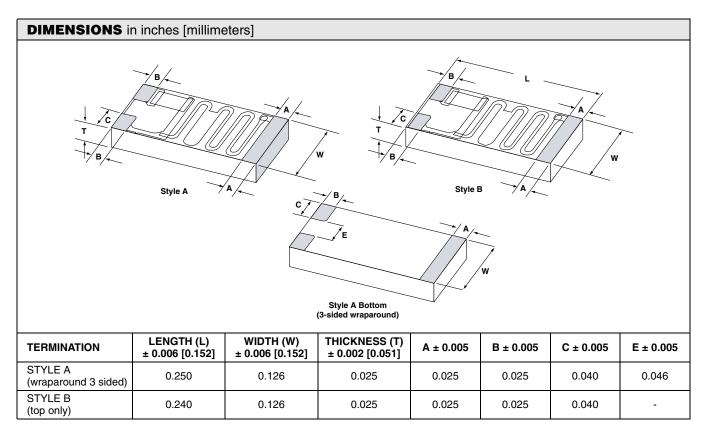
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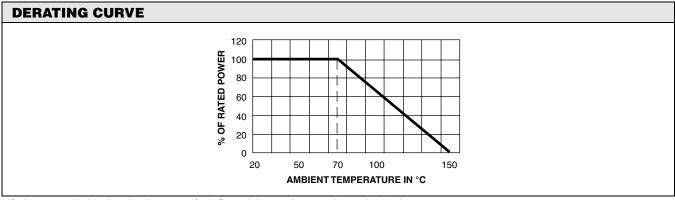


RATIO TRACKING (ppm/°C)					
RESISTANCE (Ω)	RATIO (typical)	COLD (+ 25 °C to - 50 °C)	HOT (+ 25 °C to + 150 °C)		
20M	250:1	5	260		
150M	300:1	5	80		
800M	300:1	10	50		
20G	700:1	90	160		

Note

• Contact factory for other ratios





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



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ТҮРЕ	TERMINATION MATERIAL	TERMINATION STYLE	TERMINATION STYLE/ MATERIAL CODE	SOLDER TERMINATION CODE
Solderable	Nickel barrier	3-sided (wraparound)	AF	E, F, S or T ⁽³⁾
		Top only (flip chip)	BF	
Wire bondable/ Solderable	Platinum palladium gold	3-sided (wraparound)	AE	N, F or S ⁽¹⁾
		Top only (flip chip)	BE	
Wire bondable/ Epoxy bondable	Gold	3-sided (wraparound)	AC	N
		Top only (flip chip)	BC	
Epoxy bondable	Palladium silver ⁽²⁾	3-sided (wraparound)	AA	- N
		Top only (flip chip)	BA	
	Platinum gold	3-sided (wraparound)	AB	
		Top only (flip chip)	BB	
	Distinum silver	3-sided (wraparound)	AD	
	Platinum silver	Top only (flip chip)	BD	

Notes

(1) Use solder termination N for applications requiring wire bondable mounting, and solder terminations F or S for applications requiring solderable mounting. ⁽²⁾ While not recommended, palladium silver terminations could be used for solderable applications when using a solder alloy containing silver.

⁽³⁾ Standard solder plating for the nickel barrier parts are solder terminations E or T. Hot solder dipped terminations F or S are also available.



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