

THICK FILM RESISTOR



Thick Film Chip Resistors, High Voltage

MODEL	RESISTANCE RANGE (ohms)	POWER RATING (MW)	VOLTAGE RATING (V Max.)
CRHV1206	2 M - 8 G	300	1500
CRHV1210	4 M - 10 G	450	1750
CRHV2010	6 M - 35 G	500	2000
CRHV2510	10 M - 40 G	600	2500
CRHV2512	12 M - 50 G	700	3000
UQ.			

KEY BENEFITS

- High voltage: to 3000 volts
- High ohmic values/small packages: from 2 $M\Omega$ to 50 $G\Omega$
- Five industrial sizes
- Nickel barrier termination standard, other termination materials available
- Proprietary Cermet material

APPLICATIONS

- High-voltage power supplies
- Circuit breakers
- Lighting controls
- High-voltage applications

RESOURCES

- Datasheet: CRHV http://www.vishay.com/doc?68002
- For technical questions contact <u>te1resistors@vishay.com</u>

One of the World's Largest Manufacturers of

VMN-PT9048-1201

Discrete Semiconductors and Passive Components



CRHV





RoHS*

FREE

Thick Film Chip Resistors, High Voltage



FEATURES

- High voltage up to 3000 V Outstanding stability < 0.5 % Flow solderable

- Custom sizes available Automatic placement capability
- COMPLIANT Available with either wraparound terminations HALOGEN or as a single termination flip chip Tape and reel packaging available Internationally standardized sizes
- Suitable for solderable, epoxy bondable, or wire bondable applications
- platinum silver, platinum 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
- Compliant to RoHS Directive 2011/65/EU
 Halogen-free according to IEC 61249-2-21 definition
- Note
- Pb containing terminations are not RoHS compliant, exemptions may apply

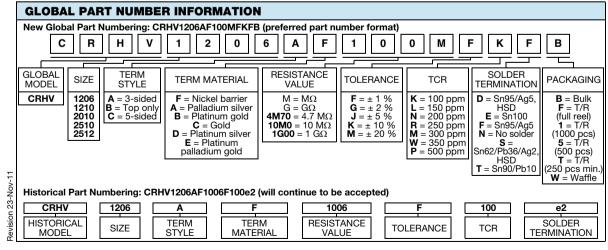
STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	CASE SIZE	POWER RATING P _{70 °C} W	MAXIMUM WORKING VOLTAGE ⁽¹⁾ V	RESISTANCE RANGE ⁽²⁾ Ω	TOLERANCE ⁽³⁾ ± %	TEMPERATURE COEFFICIENT ⁽⁴⁾ (- 55 °C to + 150 °C) ± ppm/°C		
CRHV1206 1206	1206	0.30	1500	2M to 1G	1, 2, 5, 10, 20	100		
	1200			1.1G to 8G	2, 5, 10, 20			
CRHV1210 12	1210	0.45	1750	4M to 1G	1, 2, 5, 10, 20	100		
	1210			1.1G to 10G	2, 5, 10, 20			
CRHV2010 2010				6M to 1G	1, 2, 5, 10, 20			
	0.50	2000	1.1G to 10G	2, 5, 10, 20	100			
			11G to 35G	5, 10, 20				
CRHV2510 2510				10M to 1G	1, 2, 5, 10, 20			
	0.60	2500	1.1G to 10G	2, 5, 10, 20	100			
				11G to 40G	5, 10, 20]		
CRHV2512		0.70	3000	12M to 1G	1, 2, 5, 10, 20	100		
	2512			1.1G to 10G	2, 5, 10, 20			
				11G to 50G	5, 10, 20			

Notes

For non-standard sizes, lower values o<u>r high</u>er power rating requirement, contact factory. Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less. Resistance values are calibrated at 100 V_{DC}. Calibration at other voltages available upon request. Contact factory for tighter tolerances. Reference only: Not for all values specified. Consult factory for your size and value.

• (1) (2) (3)

(4)



PRODUCT SHEET

VMN-PT9048-1201