

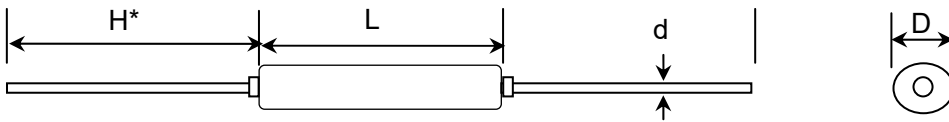
METAL OXIDE RESISTORS, 1/2W to 9W  
CPR SERIES



Features and Applications

- Low cost. Quick delivery.
- Flameproof construction (UL94V-0)
- 0.1Ω to 1 MΩ, standard tolerance: ±1%, ±2%, ±5%
- Options include increased voltages cut & formed leads, high pulse(Opt. P), etc.

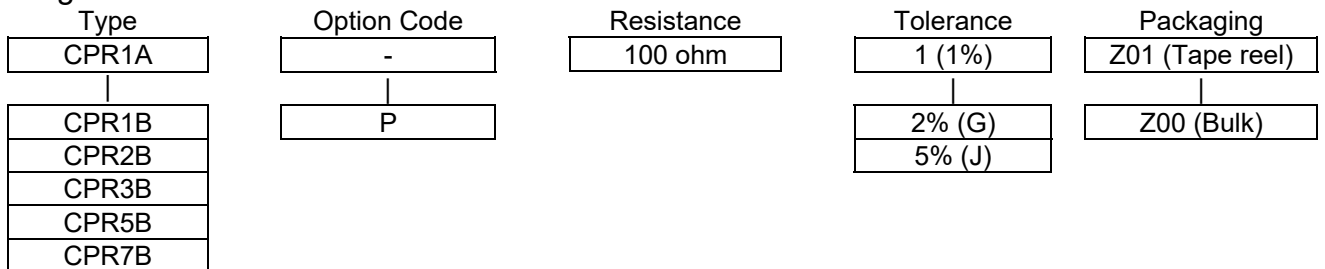
Dimensional Specifications (mm)



H\* is for bulk pack, taped leads may be shorter (refer to taping spec). Non-std length and cut & form avail.

	Power rating		Max Voltage Rating	Opt. P peak pulse voltage	Standard resistance range	L ±0.8	D ±0.6	d ±0.1	H*(Min)
	25°C	70°C							
CPR1A	1W	0.7W	300V	2KV	0.1Ω-1M	9	3.4	0.65	24
CPR1B	1.5W	1W	350V	2.5KV	0.1Ω-1M	11	4.2	0.8	24
CPR2B	3W	2W	350V	3KV	0.1Ω-1M	15	5.4	0.8	27
CPR3B	5W	3W	500V	4.5KV	0.47Ω-1M	24.1	8.1	0.8	31.7
CPR5B	7W	5W	750V	6KV	0.5Ω-240K	40.3	8.1	0.8	35
CPR7B	9W	7W	800V	8KV	2.0Ω-510K	52.8	8.1	0.8	35

Ordering Information

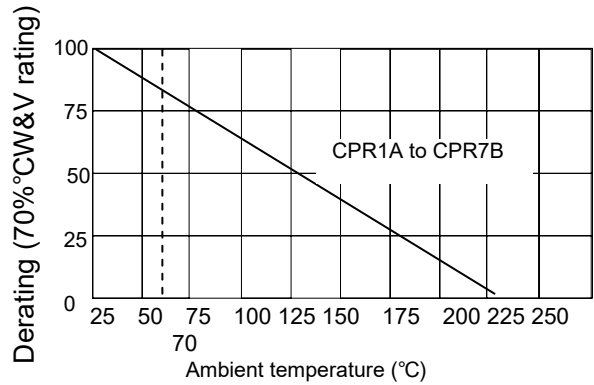
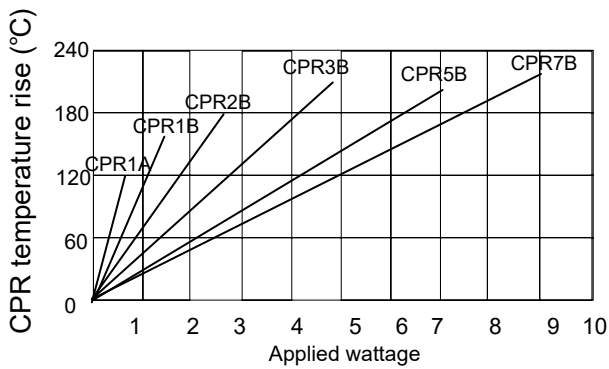


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Typical Performance Characteristics

Temperature Coefficient	±100ppm, Typ., ±200 max
Insulation Resistance	10,000MΩ Min.
Load Life (100 hours)	±3%
Short time overload	2.5x rated W, 5S, nte 2x rated V
Temperature cycling	±1%
Moisture resistance	±2%
Shock and Vibration	±0.2%
Effect of Soldering	±0.5%
Voltage Coefficient	0.001%/V
Current Noise	<0.1uV/V/decade
Dielectric Strength	500V (350V sizes <2W)
Terminal strength	5 pound pull
Standard marking	Color banded or stamped with resistance value & tolerance as minimum
Operating Temperature range	-55 to +200°C

\*1. Rated continuous working voltage determined by  $E=(PR)^{1/2}$ , E not to exceed max voltage rating. Increased ratings avail.  
 \*2. Peak voltage is for Opt.P (derate 50% for std parts), single & infrequent pulses (derate 30-50% for frequent pulses), based on 1uS pulse duration (derate 10-30% for longer pulses). Pulse to be  $\leq$  peak wattage and  $\leq$  peak voltage rating. Average pulse power to be  $\leq$  watt rating.



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