

FEATURES

- Standard taping package can be for automatic insertion and forming.
- Fully automated process and strict quality control system result uniform quality and consistent performance in reliability.
- Small and lightweight body style save the PWB space considerably.
- High Dielectric Withstanding Voltage up to 1kV.
- Flameproof construction in a ceramic tube, resistant to humidity and insulation.

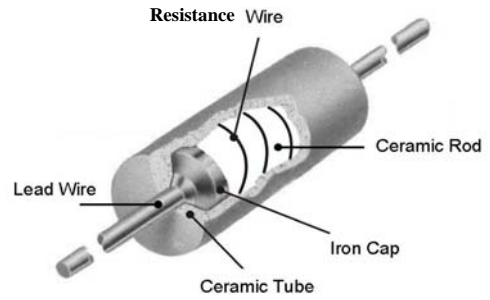
APPLICATIONS

- Power Supplies
- Charger of Consumer Appliances
- Lighting Products
- AC/DC Converters
- UPS
- Semiconductor Burn-in Boards
- Inrush Current Preventitive Circuits

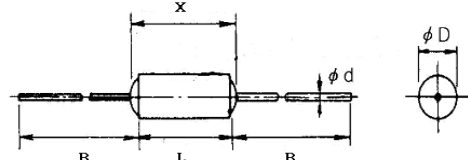
HOW TO ORDER

ROP 5W 10Ω J M T/B
 a b c d e f

- a. common code for cement resistors, cylindrical type
- b. rated power
- c. resistance value
- d. tolerance (J : ±5%)
- e. marking
 M: marking
 Nil: color coding
- f. package
 T/B: tape in box
 T/R: tape & reel
 Nil: bulk



DIMENSIONS



Unit: mm

TYPE	Dimension (mm)					Resistance Range (Ω)		Max Working Voltage
	D ± 1	L ± 1	X Max.	B ± 3	d ± 0.1	Wirewound	Power Film	
5W	7	16	19	28	0.8	0.1~150	151~50k	350V

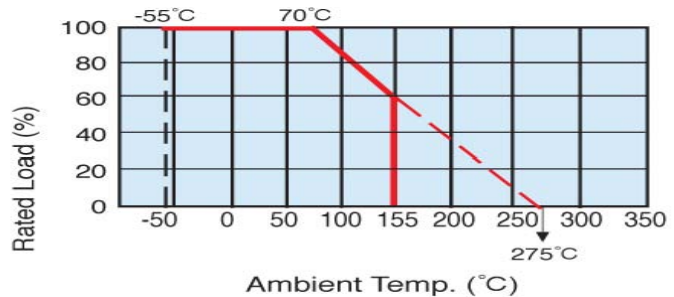
ROP 1W, 2W, 3W are available too.

Rated Continuous Working Voltage (RCWV) shall be determined from $RCWV = \sqrt{\text{Rated Power} \times \text{Resistance Value}}$ or Max. Working Voltage listed above, whichever less.

- Note:**
- Too low or too high ohmic values can be supplied only case by case
 - Max Overload Voltage is 2 times of Max Working Voltage
 - "Power Film" short time overload is 5 times of rated wattage for 5 sec.

DERATING CURVE

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.



ELECTRICAL PERFORMANCE

Test Items	Condition	Spec.	Test Method
			JIS-C-5202
Resistance Temp. Coeff.	-55°C ~ 155°C	±300ppm/°C	5.2
Short Time Overload	10 times of rated wattage for 5 sec.	±2%	5.5
Rated Load	Rated wattage for 30 min.	±1%	5.4
Dielectric Withstanding Voltage	1000V AC 1 min.	no change	5.7
Insulation Resistance	500V megger	1000MΩ	5.6
Load Life	70°C on-off cycle 1000 hours	±5%	7.1
Moisture-proof Load Life	40°C 95% RH on-off cycle 1000 hours	±5%	7.9
Nonflammability	16 times of rated wattage for 5 min.	not flamed	7.12