Tel: 82-32-817-4325
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Resistors And
Resistive Applications

ROP
CYLINDRICAL CEMENT RESISTORS

Differing from the more common rectangular type of cement resistor, these cylindrical types offer great dielectric withstanding voltage, insulation resistance anti-surge as well as low TCR. Low lead time and automatic insertion make these components particularly useful. Wire wound and power film elements available.

Applications: Power supplies, battery chargers, lighting, AC/DC converters, UPS, semicon burn-in boards, inrush prevention circuits,

GENERAL CHARACTERISTICS

Characteristic	Value
Resistance Range – Wire Wound	0.1-150R
Resistance Range – Power Film	151-50KR
Wattage	1, 2, 3, 5W
Maximum Working Voltage	350V

GENERAL SPECIFICATIONS

Test Items	Condition	Spec	Test Method
			JIS-C-5202
TCR	-55 to 155C	+-300ppm/C	5.2
Short Time Overload	10 X Rated Power, 5 sec.	+-2%	5.5
Rated Load	Rated Wattage, 30 min.	+-1%	5.4
Dielectric Withstanding Voltage	1000VAC, 1 min.	No change	5.7
Insulation Resistance	500V Megger	1000MR	5.6
Load Life	70C, ON/OFF cycle 1000hrs.	+-5%	7.1
Moisture Proof Load Life	40C, 95%RH, ON/OFF cycle 1000hrs.	+-5%	7.9
Non-Flammability	16 X Rated Wattage, 5 min.	No Flame	7.12

TECHNICAL NOTES:

1/ Working Voltage = root (rated power X resistance value) or 350V, whichever is less
2/ 1W, 2W, 3W versions also available
3/ Other ohmic values are also available, please check with RARA design team
4/ Max. Overload Voltage = 2 X max. working voltage
5/ Power film short time overload is 5 X rated wattage for 5 sec.

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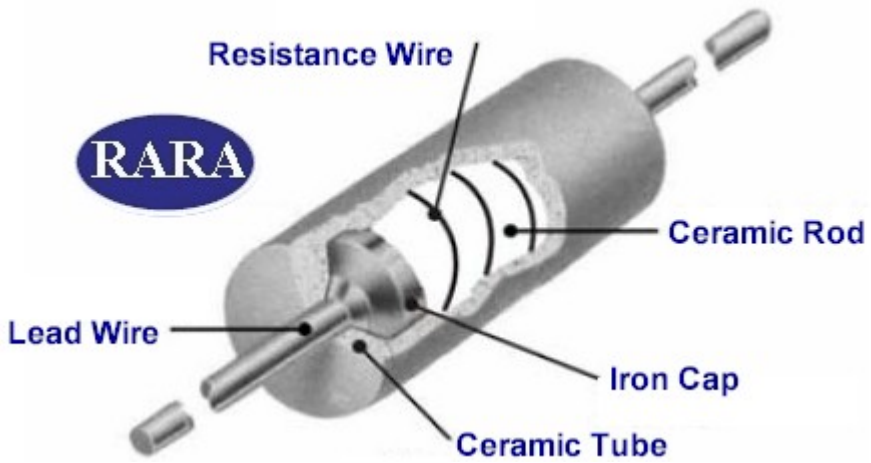
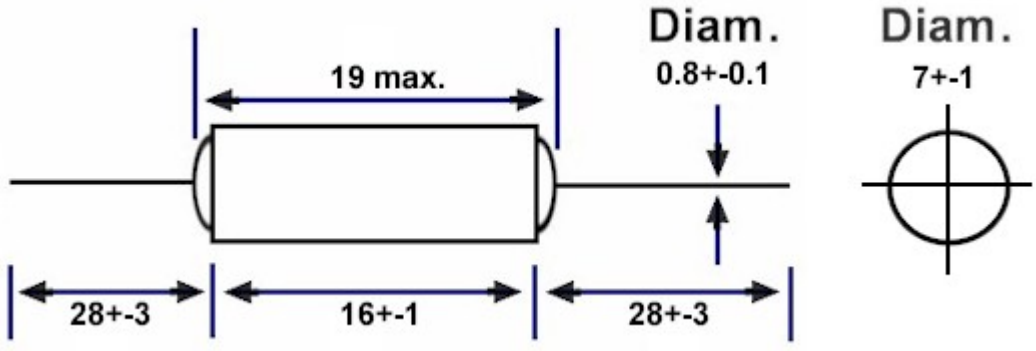
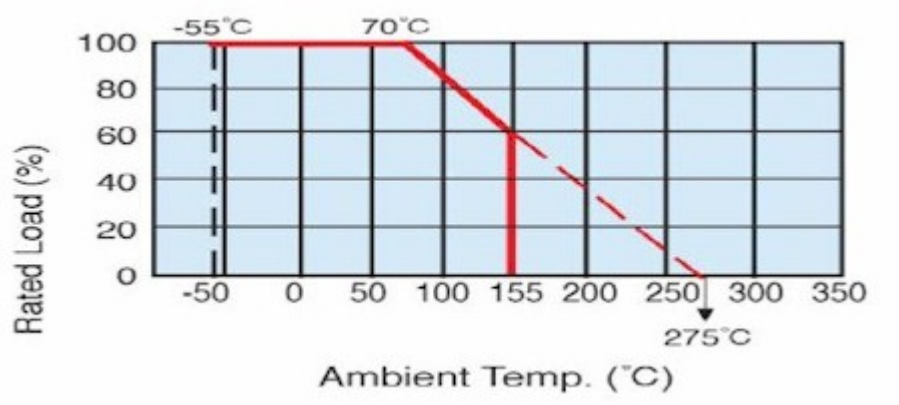
CONSTRUCTION DIAGRAM



DIMENSIONS [mm]



DERATING CURVE



ORDERING PROCEDURE EXAMPLE

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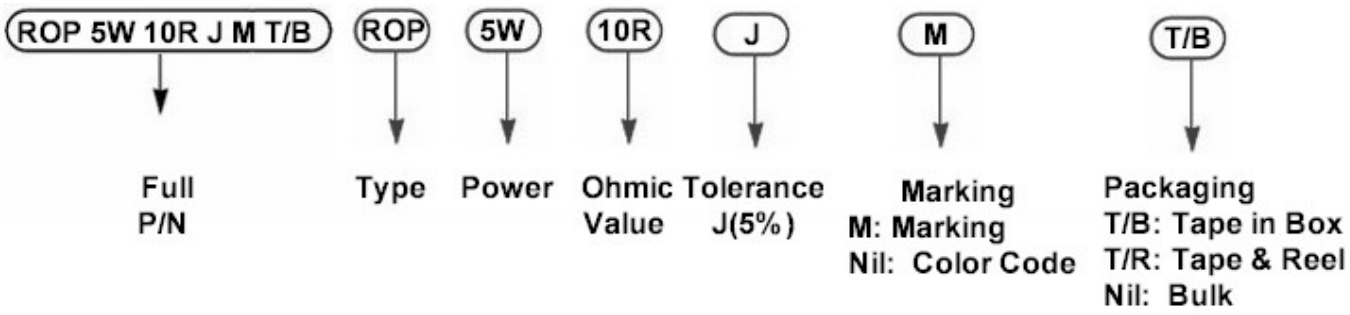

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