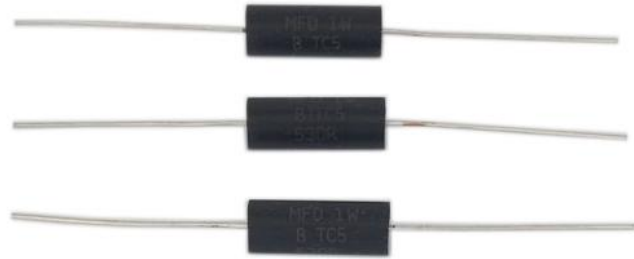


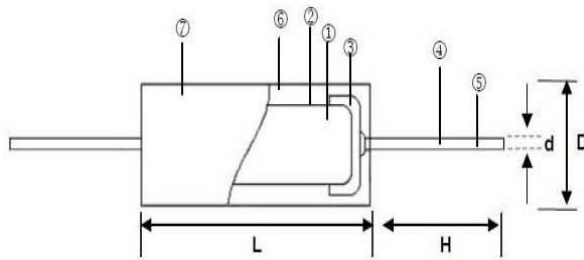
FEATURES

- High thermal conductivity and specific gravity rods.
- Power Rating: 0.25W ~ 0.5W
- Precision tolerance tight to $\pm 0.02\%$
- Superior electrical TCR performances narrowed to $\pm 5 \text{ ppm}/^{\circ}\text{C}$
- Lead (Pb)-free and RoHS compliant, covers all general type resistors.



DRAWING and DIMENSIONS (mm)

- ① Ceramic Core (Alumina ceramic)
- ② Resistor Element(Nickel alloy)
- ③ Terminal(Tinned iron cap)
- ④ Connection
- ⑤ Lead Wire (Tinned annealed copper wire)
- ⑥ Molding (Epoxy)
- ⑦ Marking (Epoxy)



Type	L	D	H	d	Weight(g) (1000 PCS)
MFD 0727	7.0 ± 0.3	2.7 ± 0.4	26 ± 3.0	0.6 ± 0.05	230
MFD 1040	10.2 ± 0.3	4.0 ± 0.4	25 ± 3.0	0.6 ± 0.05	430

STANDARD ELECTRICAL SPECIFICATIONS

Item Type	Power Rating 70 °C	Operating Temp.Rang	Max. Operating Voltage	Max. Overload Voltage	Resistance Range			TCR (PPM/°C)
					$\pm 0.02\%$	$\pm 0.05\%$	$\pm 0.1\%$	
0727	1/4W	-55~+125°C	250V	500V	10Ω-1MΩ			±5
1040	1/2W		300V	600V				±10 ±15 ±25

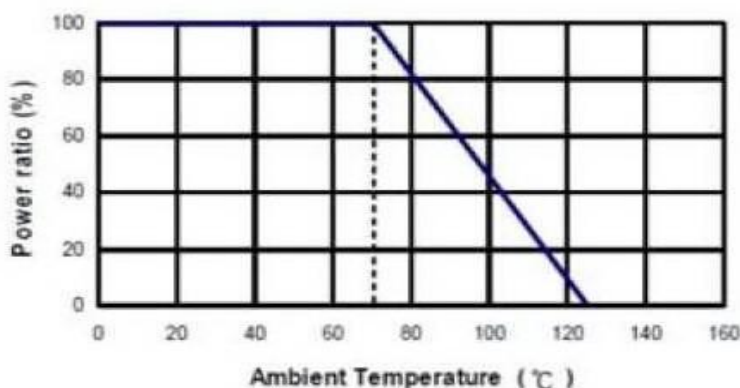


ENVIRONMENTAL CHARACTERISTICS

Item	Requirement	Test Method
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	Resistance value at temperature and room temperature +60°C
Short Time Overload	$\pm(0.15\%+0.05\Omega)$	RCWV*2.5 or Max. overload voltage for 5 seconds
Insulation Resistance	$>1,000M\Omega$	Apply 500VDC for 1 minute
Endurance	$\pm(0.5\%+0.05\Omega)$	70 \pm 2°C, Max. working voltage for 1000 hrs with 1.5hrs "ON" and 0.5hrs "OFF"
Damp Heat with Load	$\pm(0.5\%+0.05\Omega)$	40 \pm 2°C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5hrs "ON" and 0.5hrs "OFF"
Solderability	95% min. Coverage	245 \pm 5°C for 5 seconds
Resistance to Soldering Heat	$\pm(0.1\%+0.01\Omega)$	350 \pm 10°C for 3 seconds after test leave for 3 hours
Terminal Strength	Tensile: $\geq 2.5kg$	Tensile strength: for 10 sec. Torsional strength: Rotated through 360°, 5 rotations.
Pulse Overload	$\pm(0.1\%+0.01\Omega)$	4 times RCWV for 10000 cycles with 1second "ON" and 25 seconds "OFF"
Temperature Cycle	$\pm(0.5\%+0.05\Omega)$	Low side: -55°C/30min., Room temp.: 10 to 15min. High side: 85°C/30min., Room temp.: 10 to 15min. 5 cycles
Resistance to Solvent	No deterioration of coatings and markings	Trichroethane for 3 min. with ultrasonic

- Reference Standards: MIL-STD-202, JIS-C 5201-1
- Storage Temperature: 25 \pm 3°C; Humidity<80%RH

DERATING CURVE:



Note: Other resistance is available on request. WEET is capable of doing custom service for you.



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