OMEGA PRODUCTS PVT. LTD.
Unit No.50,SDF II, SEEPZ (SEZ) Andheri (East), Mumbai 400 096

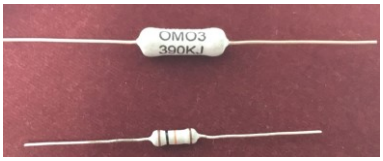
Metal Oxide Resistors - OMO Series

DESCRIPTION

A homogeneous Film of Nicrom alloy is sputtered deposited on 70 to 85% Alumina Ceramic Rods and conditioned to achieve the desired Temperature Coefficient. Nickel plated caps are fimly pressed on the metallised rods. A special Laser machine is used to achieve the highly precise resistance tolerance by cutting a helical groove in the nicrom film layer. Tin coated electrolytic copper wire are spot welded to the center of the termination caps. The resistor are coated with special epoxy or Flame proof Epoxy for Electrical , Mechanical and climatic protection,colour codes are applied with respect to designated value on coated Resistor.All Resistors are subjected to tesing before final taping process.

FEATURES

Wide Range of Resistors
Pulse withstanding design available
Flame proof coating available
RoHS Compliant
Custom Built Design and values available



SPECIFICATION

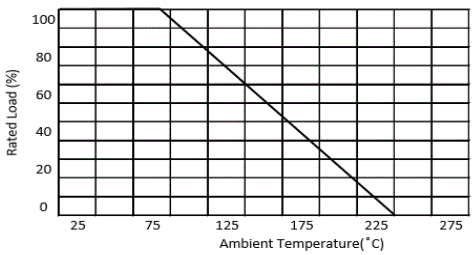
TYPE	WATTAGE	L	D	l	d	Working Voltage	Resistance Range	TCR
OMO 0.5	0.5 W	9.5 ± 0.5	3.5 ± 0.2	25 ± 0.2	0.60 ± 0.02	350V	10R to 1M	200 to 1200 ppm
OMO 1	1W	12.0 ± 1	4.5 ±0.5	25 ± 0.2	0.78 ± 0.02	500V	10R to 1M	200 to 1200 ppm
OMO 2	2W	16.0 ± 1	5.5 ± 0.5	25 ± 0.2	0.78 ± 0.02	500V	10R to 1M	200 to 1200 ppm
OMO 3	3W	17.5 ± 1	6.0 ± 0.5	31 ± 2	0.78 ± 0.02	700V	10R to 1M	200 to 1200 ppm
OMO 4	4W	22.0 ± 1	7.5 ± 0.5	31 ± 2	0.78 ± 0.02	1000V	10R to 1M	200 to 1200 ppm
OMO 5	5W	22.0 ± 1	7.5 ± 0.5	31 ± 2	0.78 ± 0.02	1000V	10R to 1M	200 to 1200 ppm
OMO 6	6W	25.0 ± 1	8.5 ± 0.5	31 ± 2	0.78 ± 0.02	1300V	10R to 1M	200 to 1200 ppm
OMO 7	7W	25.0 ± 1	8.5 ± 0.5	31 ± 2	0.78 ± 0.02	1300V	10R to 1M	200 to 1200 ppm
OMO 10	10W	42.0 ± 1	8.5 ± 0.5	31 ± 2	0.78 ± 0.02	1600V	10R to 1M	200 to 1200 ppm
OMO 12	12W	54.0 ± 1	8.5 ± 0.5	31 ± 2	0.78 ± 0.02	1700V	10R to 1M	200 to 1200 ppm
OMO 15	15W	67.0 ± 1	8.5 ± 0.5	31 ± 2	0.78 ± 0.02	1700V	10R to 1M	200 to 1200 ppm

PERFORMANCE CHARACTERISTIC

	Requirement Shall not Exceed	
Tolerances	±1%, ±5%	
Short Term Overload (2.5 x Rated voltage - 5 Sec)	Delta R	± (1.0% +0.05 Ohms)
Load Life (Rated at 70°C 1000 Hrs 1.5/0.5 Hr ON/OFF)	Delta R	± (5.0% +0.05 Ohms)
Temperature Cycling (-55 /+155, 5 cycles)	Delta R	± (0.5% +0.05 Ohms)
Insulation Resistance (at 500V for 1 Min)	Shall not be less than 10 000 M Ohms	
DWV Test	Delta R	± (0.5% +0.05 Ohms) & No Flash over at 500V
Resistance Soldering Heat (260°C 10 Sec)	Delta R	± (1.0% +0.05 Ohms)
Solderability (Solder bath dip - 5 Sec)	Greater than 95% Coverage	
Resistance to Solvents (Solvent dip - 3 min)	No effect of IPA /TCE Solvents	
Damp Heat Steady State (40°C/95% Rh - 56 days)	Delta R	± (5.0% +0.05 Ohms)
Vibration (10 to 2000 Hz)	Delta R	± (0.5% +0.05 Ohms)
Shock (1 Km/S^2)	Delta R	± (0.5% +0.05 Ohms)
Low Temp Operation (-55°C 2 Hrs without Loading)	Delta R	± (1% +0.05 Ohms)
High Temp Operation(+155°C 16 Hrs without Loading)	Delta R	± (1% +0.05 Ohms)
Terminal Strength (Bending, Tensile, Torsion)	Delta R	± (0.5% +0.05 Ohms) & No Mech. Damage

Derating

Derating Curve :



Ordering Info:

OMO100 100K 5% 200 PPM T/R

*Specifications is subject to change without notice