

OMEGA PRODUCTS PRIVATE LIMITED

Metal Oxide Resistors

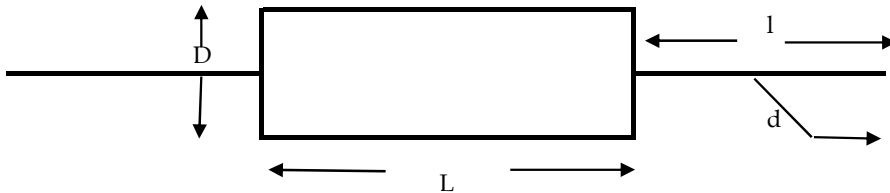
OOM Series

DESCRIPTION

A homogeneous Film deposited on 85 to 96% Alumina Ceramic Rods. Nickel plated caps are firmly pressed on the metallised rods. A special machine is used to achieve the highly precise resistance tolerance by cutting a helical groove in the film layer. Tin coated electrolytic copper wire are spot welded to the center of the termination caps. The resistor are coated with 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 testing before final taping process.

FEATURES :

Wide Range of Resistors
Pulse withstanding design available
RoHS Compliant



SPECIFICATION

Type	Wattage	L	D	l	d	Working Voltage	Resistance Range	TCR
OOM50	0.5W	6.5 ± 0.5	2.3 ± 0.2	25 min	0.60 ± 0.02	250V	1R to 220K	200 to 1200
OOM100	1W	9.5 ± 0.5	3.5 ± 0.2	25 min	0.60 ± 0.02	350V	1R to 220K	200 to 1200
OOM200	2W	9.5 ± 0.5	3.5 ± 0.2	25 min	0.60 ± 0.02	500V	1R to 220K	200 to 1200
OOM2	2W	12.0 ± 1	4.5 ± 0.5	25 min	0.78 ± 0.02	500V	1R to 220K	200 to 1200
OOM3	3W	16.0 ± 1	5.5 ± 0.5	25 min	0.78 ± 0.02	500V	1R to 220K	200 to 1200
OOM5	5W	17.5 ± 1	6.0 ± 0.5	31 min	0.78 ± 0.02	700V	1R to 220K	200 to 1200
OOM7	7W	22.0 ± 1	7.5 ± 0.5	31 min	0.78 ± 0.02	1000V	1R to 220K	200 to 1200
OOM10	10W	25.0 ± 1	8.5 ± 0.5	31 min	0.78 ± 0.02	1300V	1R to 220K	200 to 1200
OOM12	12W	42.0 ± 1	7.5 ± 0.5	31 min	0.78 ± 0.02	1600V	1R to 220K	200 to 1200
OOM 15	15W	54.0 ± 1	8.5 ± 0.5	31 min	0.78 ± 0.02	1700V	1R to 220K	200 to 1200
OOM 20	20W	67.0 ± 1	8.5 ± 0.5	31 min	0.78 ± 0.02	1700V	1R to 220K	200 to 1200

PERFORMANCE CHARACTERISTIC

Short Term Overload (2.5 x Rated voltage - 5 Sec)
Load Life (Rated at 70°C 1000 Hrs 1.5/0.5 Hr ON/OFF)
Temperature Cycling (-55 / +155, 5 cycles)
Insulation Resistance (at 500V for 1 Min)
DWV Test
Resistance Soldering Heat (260°C 10 Sec)
Solderability (Solder bath dip - 5 Sec)
Resistance to Solvents (Solvent dip - 3 min)
Damp Heat Steady State (40°C/95% Rh - 56 days)
Vibration (10 to 2000 Hz)
Shock (1 Km/S²)
Low Temp Operation (-55°C 2 Hrs without Loading)
High Temp Operation(+155°C 16 Hrs without Loading)
Terminal Strength (Bending, Tensile)

Requirement Shall not Exceed

Delta R ± (0.5% +0.05 Ohms)
Delta R ± (2.0% +0.05 Ohms)
Delta R ± (0.5% +0.05 Ohms)
Shall not be less than 10 000 M Ohms
Delta R ± (0.5% +0.1 & No Flash over at 500V)
Delta R ± (0.5% +0.05 Ohms)
Greater than 95% Coverage
No effect of IPA /TCE Solvents
Delta R ± (1.0% +0.05 Ohms)
Delta R ± (0.5% +0.05 Ohms)
Delta R ± (0.5% +0.05 Ohms)
Delta R ± (1% +0.05 Ohms)
Delta R ± (0.25% +C & No Mech. Damage)

Ordering Info:

OOM100 100K 5% 200 PPM T/R

*Specifications is subject to change without notice