Omega Products Pvt. Ltd.

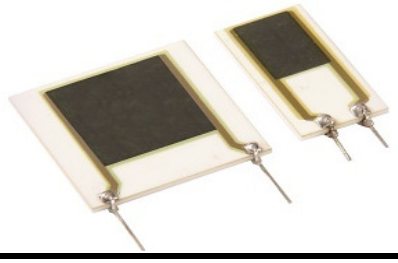
Thick Film Resistors Power (Non Inductive) ONR Series

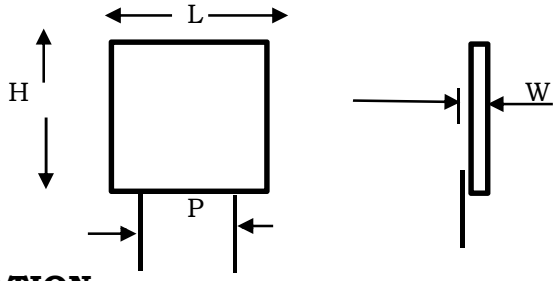
DESCRIPTION

Homogeneous film of conductive & resistive ink is screen printed on 96% alumina ceramic substrates . Laser machine is used to achieve the highly precise resistance tolerance by triming. The resistor are coated /screen printed with silicon or powder epoxy/polymer coating for mechanical and climatic protection. Marking is done with respect to designated value, tolerance, type no, date code on coated resistor. Tin coated electrolytic copper wire are soldered to the center of the termination pads.

FEATURES

Non Inductive
High Power Density
Wide Range of tolerances
Easy to Mount
Custom Built Design and values available





SPECIFICATION

TYPE	Wattage	L (±0.13 mm)	H (±0.13 mm)	W (±0.05 mm)	P (±0.38 mm)	Working Voltage	Resistance Range	TCR
ONR3	3W	10.16	25.4	2.50	3.50	200V	1R to 200K	± 100 ppm
ONR5	5W	12.7	25.4	2.50	5.08	300V	1R to 200K	± 100 ppm
ONR7	7W	19.05	25.4	2.50	12.7	400V	1R to 200K	± 100 ppm
ONR10	10W	25.4	25.4	2.50	20.32	500V	1R to 200K	± 100 ppm

PERFORMANCE CHARACTERISTIC

	Requirement Shall not Exceed
Short Term Overload (5 x Rated power - 5 Sec)	Delta R ± (1.0% +0.05 Ohms)
Load Life (Rated 1000 Hrs 1.5/0.5 Hr ON/OFF)	Delta R ± (2.0% +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
Dielectric Test	No Flash over at 5KV
Resistance Soldering Heat (260°C 10 Sec)	Delta R ± (0.5% +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 ± (0.5% +0.05 Ohms)
Terminal Strength (Bending, Tensile, Torsion)	No Mechanical Damage

Ordering Info:

ONR3 100K J 100 ppm