



# OMEGA PRODUCTS PVT. LTD.

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

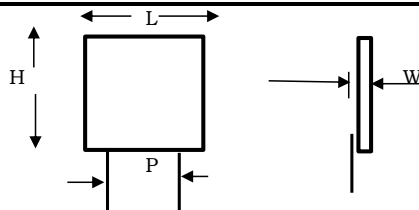
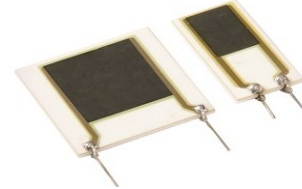
## Thick Film Resistors Power (Non Inductive) ONR Series

### 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 trimming. 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

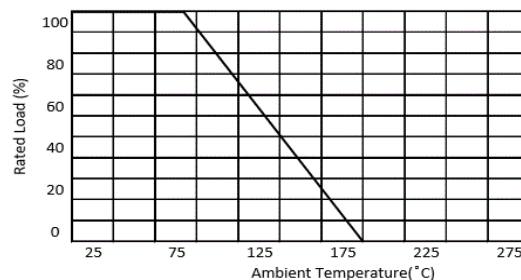
TYPE	Wattage	L ( ±0.13 mm)	H ( ±0.13 mm)	W ( ±0.05 mm)	P ( ±0.38 mm)	Working Voltage	Resistance Range	TCR
ONR3	3W	10.16	25.4	2.50	3.50	200V	1R to 200K	± 100 ppm
ONR5	5W	12.7	25.4	2.50	5.08	300V	1R to 200K	± 100 ppm
ONR7	7W	19.05	25.4	2.50	12.7	400V	1R to 200K	± 100 ppm
ONR10	10W	25.4	25.4	2.50	20.32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

### PERFORMANCE CHARACTERISTIC

	Requirement Shall not Exceed
Tolerance	±0.5% , ±1%
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

### Derating

Derating Curve :



### Ordering Info:

ONR3 100K J 100 ppm

\*Specifications is subject to change without notice