

# Thick Film Resistors Power (Non Inductive)

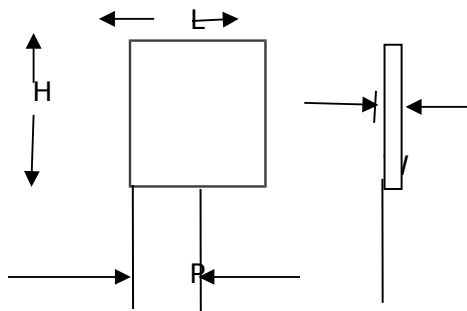
## ONR Series

### DESCRIPTION

A homogeneous Film of Resistive Ink is Screen Printed high Alumina Substrates. A special Laser machine is used to achieve the highly precise resistance tolerance by trimming . Lead Frames are soldered after applying protective encapsulant coat. Marking is done with respect to designated value on coated Resistor.

### FEATURES :

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



### SPECIFICATION

TYPE	WATTAGE	L	H	W	P	Working Voltage	Resistance Range	TCR
ONR3	3W	10.2	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	19.01	25.4	2.50	12.7	400V	1R to 200K	± 100 ppm
ONR10	10W	25.4	25.4	2.50	20.3	500V	1R to 200K	± 100 ppm

### PERFORMANCE CHARACTERISTIC

#### **Requirement Shall not Exceed**

- Short Term Overload (5 x Rated power - 5 Sec)  $\Delta R \pm (1.0\% +0.05 \text{ Ohms})$
- Load Life (Rated 1000 Hrs 1.5/0.5 Hr ON/OFF)  $\Delta R \pm (2.0\% +0.05 \text{ Ohms})$
- Temperature Cycling (-55 /+155, 5 cycles )  $\Delta R \pm (0.5\% +0.05 \text{ Ohms})$
- Insulation Resistance (at 500V for 1 Min) Shall not be less than 10 000 M Ohms
- DWV Test No Flash over at 5KV
- Resistance Soldering Heat (260°C 10 Sec)  $\Delta R \pm (0.5\% +0.05 \text{ Ohms})$
- 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 d Delta R ± (2.0% +0.05 Ohms)  
Terminal Strength (Bending, Tensile, Torsion) No Mechanical Damage

**Ordering Info:**

ONR3 100K G 100 ppm

\*Specifications is subject to change without notice