

# Thick Film Resistors

## High Value Resistors

### OTF Series

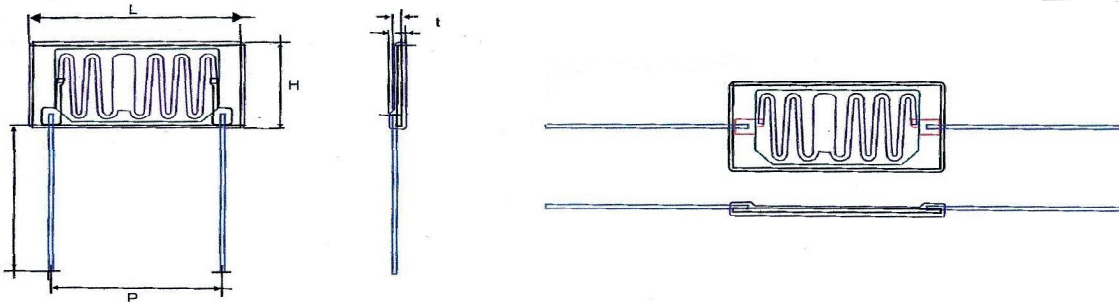
#### DESCRIPTION

A homogeneous Film of Resistive Ink is Screen Printed 96%Alumina Ceramic Substrates . A special Laser machine is used to achieve the highly precise resistance tolerance by cutting . 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,Marking is done with respect to designated value on coated Resistor.

#### FEATURES :

High Power Density  
Wide Range of Resistors  
Pulse withstanding design available  
Flame proof coating available  
RoHS Compliant  
Easy to Mount

Custom Built Design and values available



#### SPECIFICATION

TYPE	WATTAGE	L	H	W	P	Max Voltage Air (KV)	Max Voltage Epoxy (KV)	Resistance Range
OTF15	2.3 W	19.00	12.70	1.50	15.00	5	10	1K to 1G
OTF25	5.8 W	28.00	14.00	1.50	22.90	9	15	1K to 1G
OTF35	8.0 W	52.00	8.20	1.50	48.30	19	20	1K to 1G
OTF45	6.6 W	39.00	18.00	1.50	33.00	13	15	1K to 1G
OTF50	12.5W	50.80	25.40	1.50	48.30	19	30	1K to 1G

#### PERFORMANCE CHARACTERISTIC

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

Short Term Overload (2.5 x Rated voltage - 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)
Voltage Coefficient Resistance (VCR)	2 ppm/°C
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 ± (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 ± (2.0% +0.05 Ohms)
Terminal Strength (Bending, Tensile, Torsion)	No Mechanical Damage
Derating	Linearly from Rated Dessipation at 70°C C

#### **Ordering Info:**

to Zero at 125°

\*Specifications is subject to change without notice