



# OMEGA PRODUCTS PVT. LTD.

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

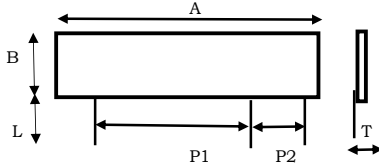
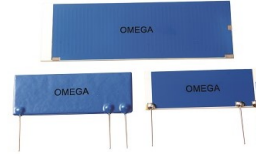
## High Voltage Thick Film Resistors ODFS Series

### 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

- High Power Density
- Wide Range of Resistors
- Pulse withstanding design available
- RoHS Compliant
- Custom Built Design and values available
- Low Tol & TCR available



### SPECIFICATION

All dimensions in mm

TYPE	WATT	A (±0.5 mm)	B (±0.5 mm)	P 1 (±0.5 mm)	P 2 (±0.5 mm)	T (±0.5 mm)	Max Voltage Air (KV)	Resistance Range
ODFS 0.5	0.5W	12.70	5.08	10.16	2.54	2.00	4	1K to 1G
ODFS 0.75	0.75W	20.32	5.08	17.78	5.08	2.50	8	1K to 1G
ODFS 1	1W	25.40	7.62	22.86	5.08	2.50	12	1K to 1G
ODFS 1.5	1.5W	38.10	12.70	35.56	7.62	2.50	18	1K to 1G
ODFS 2.5	2.5W	50.80	15.24	35.00	10.16	2.50	24	1K to 1G
ODFS 3	3W	50.80	25.40	35.00	10.16	2.50	32	1K to 1G
ODFS 3.5	3.5W	76.20	15.24	73.66	10.16	2.50	40	1K to 1G

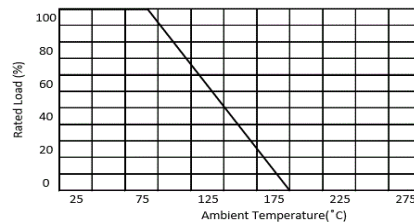
### PERFORMANCE CHARACTERISTIC

#### Requirement Shall not Exceed

Absolute Tolerance	0.1%, 0.5%, 1%, 5%, 10%
Ratio Tolerance	0.1%, 0.5%, 1%, 5%, 10%
Absolute TCR	25, 50, 100 ppm/°C
Ratio TCR	10, 15, 25, 50, 100 ppm/°C
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

Derating Curve :



### ORDERING INFO:

OTFS - Screen printed.

OTFS50 12.5W 100M F

\*Specifications is subject to change without notice