

Omega Products Pvt. Ltd.

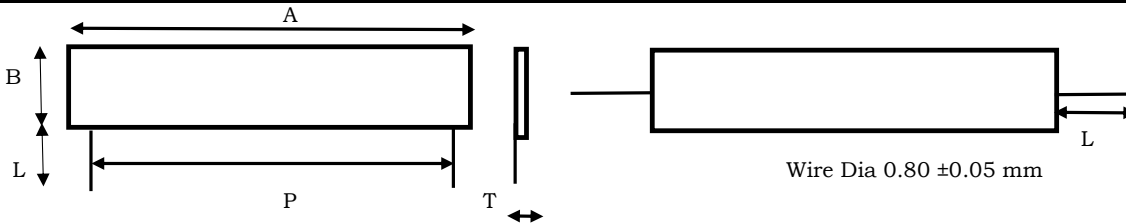
High Voltage Thick Film Planar Resistors OTFS Series

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 screen printed with 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

Low Tol & TCR available
Wide Range of Resistors
Pulse withstanding design available
RoHS Compliant



SPECIFICATION

All dimensions in mm

TYPE	WATT	A (±0.5 mm)	B (±0.5 mm)	L (max)	P (±0.5 mm)	T (±0.5 mm)	Max Voltage Air (KV)	Resistance Range
OTFS 1	1 W	12.70	5.08	10	10.16	2	5	1K to 1G
OTFS 2	2 W	25.40	7.62	35	22.86	2.5	11	1K to 1G
OTFS 3	3 W	38.10	12.70	35	35.56	2.5	20	1K to 1G
OTFS 4.5	4.5 W	50.80	15.24	35	48.26	2.5	30	1K to 1G
OTFS 5.5	5.5 W	50.80	25.40	35	48.26	2.5	35	1K to 1G
OTFS 6.5	6.5 W	76.20	15.24	35	73.66	3	45	1K to 1G

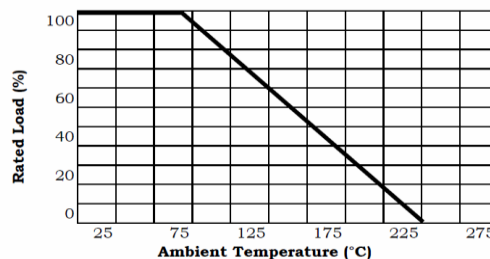
PERFORMANCE CHARACTERISTIC

Requirement Shall not Exceed

Tolerances	0.10%, 0.25%, 0.5%, 1%, 5% & 10%
Overload (1.5 x power OR Max voltage - 5 Sec)	Delta R ± (0.25% +0.05 Ohms)
Load Life (Rated 1000 Hrs 1.5/0.5 Hr On/Off)	Delta R ± (0.25% +0.05 Ohms)
Thermal Shock (MIL Std.202, method 107 cond C)	Delta R ± (0.20% +0.05 Ohms)
Voltage Coefficient Resistance (VCR)	2 ppm/°C
Temperature Coefficient of Resistance (TCR)	25, 50 & 100 ppm/°C
Resistance to soldering Heat (260°C 10 Sec)	Delta R ± (0.50% +0.05 Ohms)
Insulation Resistance (at 500V for 1 Min)	Shall not be less than 10 000 M Ohms
Dielectric Strength Test	No Flash over at 1KV
Resistance to Solvents (Solvent dip - 3 min)	No effect of IPA /TCE Solvents
Moisture Resistance (MIL Std 202 method 106)	Delta R ± 0.25% +0.05 Ohms)
Terminal Strength (Bending, Tensile, Torsion)	No Mechanical Damage
Solderability (Solder bath dip - 5 Sec)	> 95% Coverage

Derating

Derating Curve:



ORDERING INFO:

OTFS 2 2W 100M F

*Specifications is subject to change without notice