

Omega Products Pvt. Ltd.

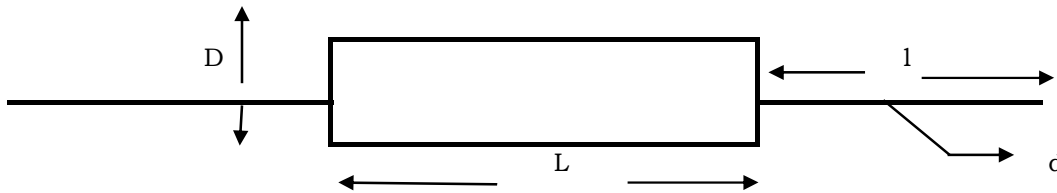
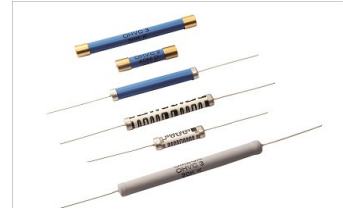
Thick Film Resistors High Voltage OPHC/OPHS/OPHP Series

DESCRIPTION

Homogeneous film of conductive & resistive ink is screen printed high alumina rods. Pre-welded tin coated electrolytic copper wire spot welded on center of the end caps are force fitted from both sides. Trimming machine is used to achieve the highly precise resistance tolerance by trimming. The resistor are coated with powder coating or screen printed with polymer coat for electrical, mechanical and climatic protection. Marking is done with respect to type, designated value, tolerance and date code on coated Resistor.

FEATURES

High impulse load & stability
 Low Inductance.
 Pulse withstanding design available



SPECIFICATION

Conformal coating	Powder coated	Screen printed	Wattage	L	D	l (Min)	Max Voltage (KV)	Resistance Range
OPHC1	OPHP1	OPHS1	1 W	12.00	4.50	30.00	1.5	Up to 1G
OPHC2.5	OPHP2.5	OPHS2.5	2.5 W	16.00	5.50	30.00	2.5	Up to 2G
OPHC5	OPHP5	OPHS5	5.0 W	21.00	7.50	30.00	5	Up to 2G
OPHC7.5	OPHP7.5	OPHS7.5	7.5 W	52.00	8.50	30.00	15	Up to 10G
OPHC10	OPHP10	OPHS10	10.0 W	66.00	8.50	30.00	22.5	Up to 10G
OPHC12.5	OPHP12.5	OPHS12.5	12.5 W	82.00	25	30.00	25	Up to 10G

PERFORMANCE CHARACTERISTIC

Requirement Shall not Exceed

Short Term Overload (5 x Rated power - 5 Sec)	Delta R ± (0.5% +0.05 Ohms)
Load Life (Rated 1000 Hrs 1.5/0.5 Hr ON/OFF)	Delta R ± (1.0% +0.05 Ohms)
Temperature Cycling (-55 /+155, 5 cycles)	Delta R ± (0.25% +0.05 Ohms)
Voltage Coefficient Resistance (VCR)	< 5 ppm/°volt
Temperature Coefficient Resistance (TCR)	± 25, 50, 100 ppm/°C
Damp Heat-Steady State (40°C at 95% Rh - 56days)	Delta R ± (1.0% +0.05 Ohms)
Insulation Resistance (at 500V for 1 Min)	> 10 000 M Ohms
DWV Test	No Flash over at 1KV
Resistance Soldering Heat (260°C 10 Sec)	Delta R ± (0.25% +0.05 Ohms)
Solderability (Solder bath dip - 5 Sec)	> 95% Coverage
Resistance to Solvents (Solvent dip - 3 min)	No deterioration
Terminal Strength (Bending, Tensile, Torsion)	No Mechanical Damage
Derating	Linearly from Rated Dissipation at 70°C to Zero at 175°C

Ordering Info

OPHP5 10M J 100 ppm

*Specifications is subject to change without notice