

OMEGA PRODUCTS PRIVATE LIMITED.

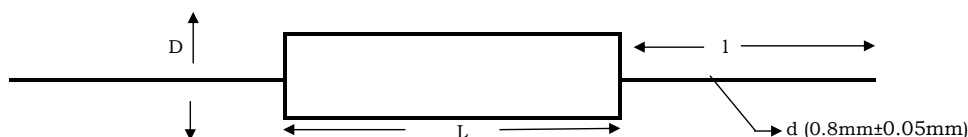
Thick Film Resistors High Voltage OHVS Series

DESCRIPTION

Homogeneous film of conductive & Ruthenium oxide resistive ink is screen printed 96% 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 screen printed 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

Type (Polymer Coat)	Wattage	L ($\pm 1mm$)	D ($\pm 0.5mm$)	l (Min)	Max Voltage (KV)	Resistance Range
OHVS 4	4W	26.3	7.5	30	10	500K - 10G
OHVS 5	5W	39	7.5	30	15	500K - 50G
OHVS 8	8W	51	7.5	30	20	500K - 50G
OHVS 10	10W	65.5	7.5	30	25	500K - 50G
OHVS 12	12W	77	7.5	30	30	500K - 50G
OHVS 13.5	13.5W	102.5	7.5	30	40	500K - 50G
OHVS 15	15W	123	7.5	30	50	1M - 50G
OHVS 20	20W	153.5	7.5	30	60	1M - 50G

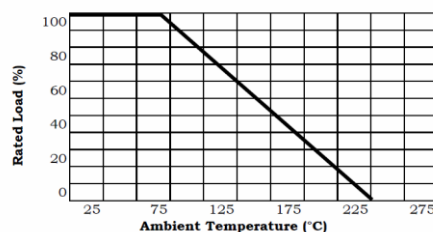
** Brass cap available for terminations on request.

PERFORMANCE CHARACTERISTIC

	Requirement Shall not Exceed
Tolerances	0.10%, 0.25%, 0.5%, 1%, 5%
Operating Temperature	-55°C to 225°C
Short Term Overload (1.5 x Rated power - 5 Sec) (Do not exceed max. voltage)	Delta R $\pm 0.25\%$ Max.
Load Life (Rated 1000 Hrs 1.5/0.5 Hr ON/OFF)	Delta R $\pm 0.5\%$ Max.
Thermal Shock (MIL Std. 202, method 107 Cond. C)	Delta R $\pm 0.2\%$ Max.
Voltage Coefficient Resistance (VCR)	< 0.5 ppm/volt
Temperature Coefficient Resistance (TCR)	$\pm 25, \pm 50$ & ± 100 ppm/°C
Moisture Resistance (MIL Std 202, method 106)	Delta R $\pm (0.25\% + 0.05 \text{ Ohms})$
Insulation Resistance (at 500V for 1 Min)	> 10 G Ohms
Dielectric Strength >1KV at 25°C	No Flash over
Resistance Soldering Heat (260°C 10 Sec)	Delta R $\pm (0.5\% + 0.05 \text{ Ohms})$
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

Derating Curve:



Ordering Info:

OHVS	10	10M	J	BB	100 ppm
Type	Wattage	Resi. Value	Tolerance	Terminal	TCR
Screen printed			J for 5%	BB - Brass cap both side.	
Polymer coat			F for 1%	LB - Lead cap Assy & Brass cap at other side	
			D for 0.5%	LL - Lead cap assy on both side.	
			B for 0.1%		

*Specifications is subject to change without notice