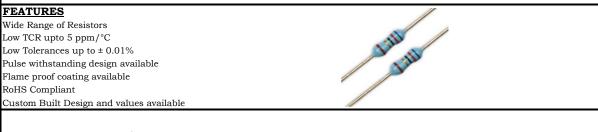
# OMEGA PRODUCTS PVT. LTD.

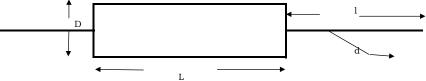
Unit No.50, SDF II, SEEPZ (SEZ ) Andheri ( East ), Mumbai 400 096

# Metal Film Resistors - OMF Series

### DESCRIPTION

A homogeneous Film of Nicrom alloy is sputtered deposited on 70 to 85% Alumina Ceramic Rods and conditioned to achieve the desired Temperature Coefficient. Nickel plated caps are fimly pressed on the metallised rods. A special Laser machine is used to achieve the highly precise resistance tolerance by cutting a helical groove in the nicrom film layer. Tin coated electrolytic copper wire are spot welded to the center of the termination caps. The resistor are coated with special flame proof epoxy for Electrical , Mechanical and climatic protection, colour codes are applied with respect to designated value on coated Resistor.All Resistors are subjected to tesing before final taping process.



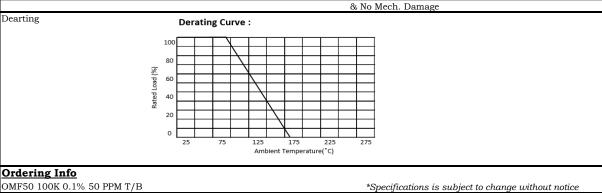


#### SPECIFICATION

TYPE	WATTAGE	L	D	1	đ	Working Voltage	Resistance Range	TCR
OMF25	0.25W	6.5±0.5	2.3±0.2	25 + 2	$0.55 \pm 0.02$	250V	10R to 1M	5,10,15,25, 50, 100 ppm
OMF50	0.5W	9.5 ± 0.5	$3.5 \pm 0.2$	25 + 2	$0.60 \pm 0.02$	350V	10R to 1M	5,10,15,25, 50, 100 ppm

## PERFORMANCE CHARACTERISTIC

	Requirement	Shall not Exceed		
Tolerance	±0.01%, ±0.1%	,±0.5% ,±1% ,±5%		
Short Term Overload (2.5 x Rated voltage - 5 Sec)	Delta R	± (0.1% +0.05 Ohms)		
Load Life (Rated at 70°C 1000 Hrs 1.5/0.5 Hr ON/OFF)	Delta R	± (0.5% +0.05 Ohms)		
Temperature Cycling (-55 /+155, 5 cycles )	Delta R	± (0.5% +0.05 Ohms)		
Insulation Resistance (at 500V for 1 Min)	Shall not be les	ss than 10 000 M Ohms		
DWV Test (2 x Limiting voltage - 1 Min)	Delta R	± (0.02% +0.05 Ohms)		
Resistance Soldering Heat (260°C 10 Sec)	Delta R	± (0.05% +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	± (0.05% +0.05 Ohms)		
Vibration (10 to 2000 Hz )	Delta R	± (0.1% +0.05 Ohms)		
Shock (1 Km/S <sup>2</sup> )	Delta R	± (0.1% +0.05 Ohms)		
Low Temp Operation (-55°C 2 Hrs without Loading)	Delta R	± (0.1% +0.05 Ohms)		
High Temp Operation(+155°C 16 Hrs without Loading)	Delta R	± (0.5% +0.05 Ohms)		
Terminal Strength (Bending, Tensile)	Delta R	± (0.1% +0.05 Ohms)		



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