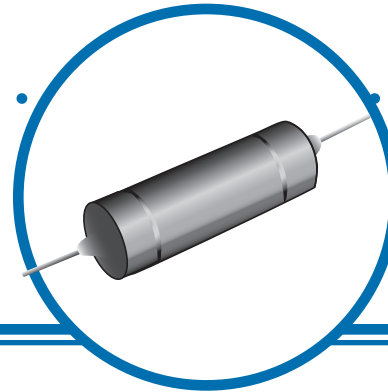


High Voltage Metal Film Resistor

MH Series

- Value up to 2M2
- High stability metal film
- High working voltage to 3.5kV



Electrical Data

IRC Type	Power Rating @ 70°C (watts)	Resistance Range (ohms)	Limiting Element Voltage (volts dc or ac peak)	TCR (ppm/°C)	Isolation Voltage (volts)	Resistance Tolerance (%)	Standard Values	Thermal Impedance (°C/watt)	Operating Temperature Range (°C)
MH25	0.25	100K - 2M2	1600	100	700	1, 2, 5	E24 & E96 Preferred	140	-55 to 155
MH37	0.50	100K - 1M0	3500					112	

Environmental Data

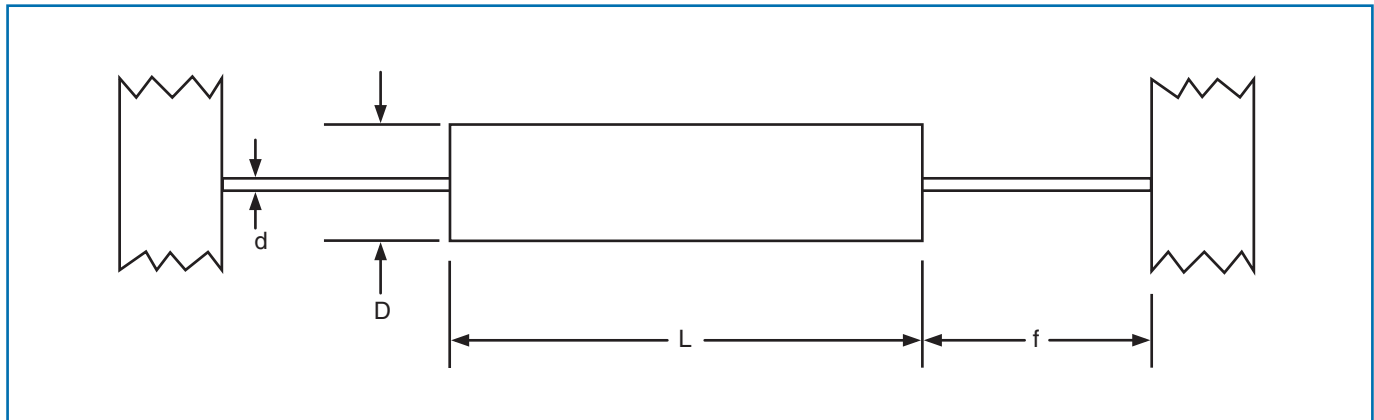
	Performance	
	Maximum	Typical
Load at Rated Voltage: 1000 hrs at 70°C	1.5	0.47
Derating	Zero at 155°C	
Short Time Overload	1.0	0.25
Dry Heat: 16 hrs @ 155°C	1.5	0.2
56 days DHSS	1.5	0.2
Climatic	1.5	0.2
Climatic Category	55/155/56	
Temperature Rapid Change	0.5	0.05
Resistance to Solder heat	0.5	0.05
Vibration and Bump	0.5	0.05
Voltage Proof	700 min	

General Note

IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

High Voltage Metal Film Resistor

Physical Data



Dimensions (mm) & Weight (g)

IRC Type	L max	D max	f min	d nom	PCB Mounting Centers	Min Bend Radius
MH25	6.2	2.3	21.0	0.6	10.2	0.6
MH37	9.0	3.7	19.6	0.8	12.7	1.2

Construction

Thin film material is sputtered onto high grade ceramic rods. Nickel plated steel caps are force fitted and the termination wires are welded to the caps. The value is obtained by a helical cut in the film and finally the resistor body is protected by a cement protection applied so that the terminations remain completely clear.

Terminations

Material Solder-coated copper wire.

Strength The terminations meet the requirements of IEC 68.21.

Solderability The terminations meet the requirements of IEC 115-1, Clause 4.17.3.2.

Marking

1% tolerance resistors are color coded with 5 bands. 2% and 5% tolerance have 4. IEC 62 colors are used.

Solvent Resistance

The body protection and marking are resistant to all normal industrial cleaning solvents suitable for printed circuits.