

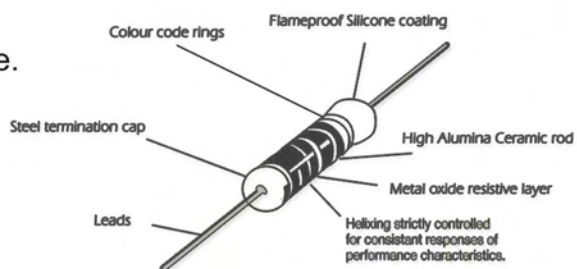
## METAL OXIDE RESISTORS

**Series:** MO / MOS

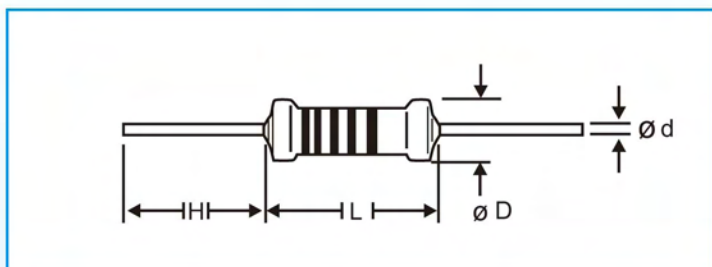
**Construction:**

**Features:**

- ▶ Small in Size.
- ▶ Electrical & mechanical stability & high reliability.
- ▶ Best resistive to heat, humidity and noncombustible.
- ▶ Low noise, with high resistance value which Wire Wound type can not be produced.
- ▶ Available ranges from 10 Ohm ~ 1M Ohms.
- ▶ TCR Available 200 , 350 ppm/° C.
- ▶ Miniature Size available for Space savings.



**Dimensions:**

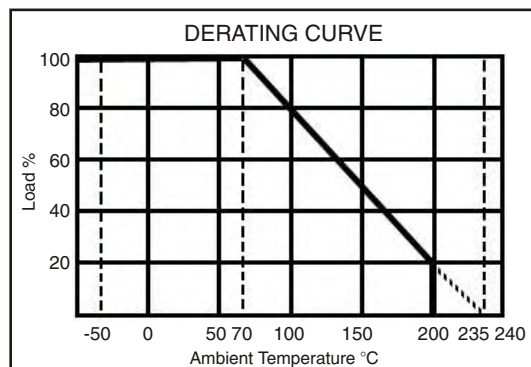


**Physical Data :**

TYPE	POWER RATING	TOL (±)	DIMENSION mm				Max. Working Voltage	Max.Overload Voltage
			L	D	H (min)	d		
MO 25	0.25W	5%	6.5 ± 0.5	2.3 ± 0.2	28	0.6 ± 0.05	250V	500V
MOS 50	0.5W	5%	6.5 ± 0.5	2.3 ± 0.2	28	0.6 ± 0.05	250V	500V
MO 50	0.5W	5%	9.5 ± 1	3.5 ± 0.5	25	0.6 ± 0.05	350V	700V
MOS 100	1W	5%	9.5 ± 1	3.5 ± 0.5	25	0.6 ± 0.05	350V	700V
MO100	1W	5%	12 ± 1	4.5 ± 0.5	25	0.8 ± 0.05	500V	1000V
MOS 200	2W	5%	12 ± 1	4.5 ± 0.5	25	0.8 ± 0.05	500V	1000V
MO 200	2W	5%	16 ± 1	5.5 ± 0.5	32	0.8 ± 0.05	500V	1000V
MOS 300	3W	5%	16 ± 1	5.5 ± 0.5	32	0.8 ± 0.05	500V	1000V

**Performance Data :**

TEST	PROCEDURE	SPEC.
Dielectric Withstanding Voltage	V- Block Method, 3X Rated Voltage Duration : 1 Min.	$\Delta R = ( 0.5\% + 0.05 \text{ Ohm } )$
Insulation Resistance	V- Block Method, DC 500V Duration : 1 Min.	>10,000 M Ohm
Temp. Cycling	5 cycles of - 65° C, 25° C, +155° C, 25° C	$\Delta R = ( 1\% + 0.05 \text{ Ohm } )$
Short Time Overload	2.5 X Rated Voltage Duration : 5 sec.	$\Delta R = ( 1\% + 0.05 \text{ Ohm } )$
Damp Heat Steady State	40°C 95% relative humidity, Duration : 56 Days.	$\Delta R = ( 5\% + 0.05 \text{ Ohm } )$
Load Life	Rated Voltage at 70°C ambient Duration : 2000 Hrs.	$\Delta R = ( 5\% + 0.05 \text{ Ohm } )$
Robustness of Terminations	Tensile :10N Duration: 10 Sec. Bending :180°, > 3 Bends Torsion :3 Rotation of 360° Each	$\Delta R = ( 0.5\% + 0.05 \text{ Ohm } )$
Resistance to Soldering Heat	Temp. 260° C $\pm$ 5° C Duration :10 Sec.	$\Delta R = ( 1\% + 0.05 \text{ Ohm } )$
Shock ( Medium Impact )	1 Km/S <sup>2</sup>	$\Delta R = ( 1\% + 0.05 \text{ Ohm } )$
Vibration ( High Frequency )	10 to 2000 Hz : m/S <sup>2</sup>	$\Delta R = ( 1\% + 0.05 \text{ Ohm } )$
Low Temp. Exposure	At -65° C Duration :2 Hrs.	$\Delta R = ( 1\% + 0.05 \text{ Ohm } )$
High Temp. Exposure	At +155° C Duration :16 Hrs.No Load Condition	$\Delta R = ( 5\% + 0.05 \text{ Ohm } )$
Solderability	Dip Method, Solder Bath Temp. 230° C $\pm$ 5° C. Duration 5 Sec.	95% Coverage
Resistance to Solvent	Solvent : Trichloroethylene Duration : 3 Min.	Marking should be legible



**SURFACE TEMP. RISE**

