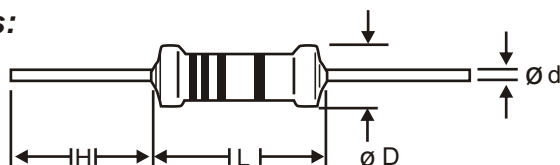


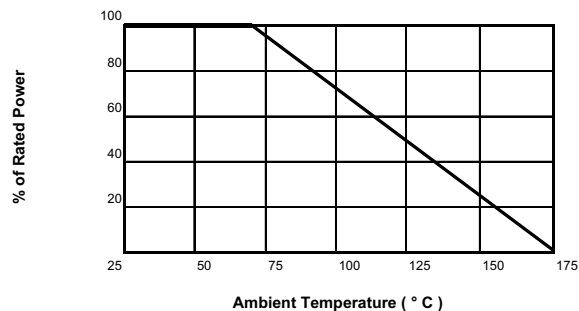
## METAL GLAZE RESISTORS

Series: MGR

Dimensions:



Derating Curve :



Physical Data :

TYPE	RATED POWER	DIMENSION mm				MAX. Working Voltage	Resistance Range
		L	D	H (min)	d		
MGR 25	0.25W	6.3 ± 0.5	2.3 ± 0.5	28.1 ± 0.2	0.6 ± 0.03	1600 V DC	100 K ~ 10 M
MGR 50	0.50W	9.0 ± 0.5	3.5 ± 0.5	26.5 ± 0.2	0.6 ± 0.03	3500 V DC	100 K ~ 10 M

Performance Data :

TEST	PROCEDURE	SPEC.
Dielectric Withstanding Voltage	V-Block Method, 3X Rated Voltage Duration : 1 Min.	$\Delta R < \pm (0.5\% + 0.05 \text{ Ohm})$ No Breakdown
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	$\Delta R < \pm (0.5\% + 0.05 \text{ Ohm})$
Short Time Overload	2.5X Rated Voltage Duration : 5 sec.	$\Delta R < \pm (1.5\% + 0.05 \text{ Ohm})$
Damp Heat Steady State	40°C/95% relative humidity, Duration : 56 Day.	$\Delta R < \pm (1.5\% + 0.05 \text{ Ohm})$
Load Life	Rated Voltage at 70°C ambient Duration : 2000 Hrs.	$\Delta R < \pm (1.5\% + 0.05 \text{ Ohm})$
Robustness of Terminations	Tensile: 10N Duration: 10 Sec. Bending : 180°, > 3 Bends Torsion : 3 Rotation of 360° Each	No Mechanical Damage
Resistance to Soldering Heat	Temp. 260°C ± 5°C Duration : 10 Sec.	$\Delta R < \pm (0.5\% + 0.05 \text{ Ohm})$
Bump	1500 Bump x 3 directions	$\Delta R < \pm (1.5\% + 0.05 \text{ Ohm})$
Vibration (High Frequency)	10 to 2000 Hz: m/S <sup>2</sup>	$\Delta R < \pm (1.5\% + 0.05 \text{ Ohm})$
Low Temp. Exposure	At - 65°C Duration : 2 Hrs.	$\Delta R < \pm (1.5\% + 0.05 \text{ Ohm})$
High Temp. Exposure	At +155°C Duration : 16 Hrs. No Load Condition	$\Delta R < \pm (1.5\% + 0.05 \text{ Ohm})$
Solderability	Dip Method, Solder Bath Temp. 230°C ± 5 °C. Duration 5 Sec.	95% Coverage
Resistance to Solvent	Solvent : Trichloroethylene Duration : 3 Min.	Marking should be legible