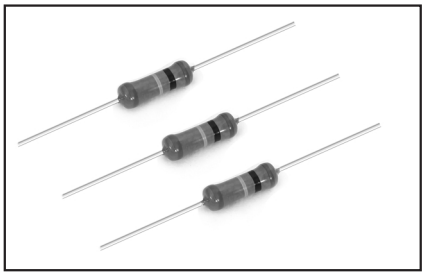
Metal Glazed Resistors

- High stable performance against environmental conditions and over load voltage.
- Wide resistance range.



GENERAL SPECIFICATIONS

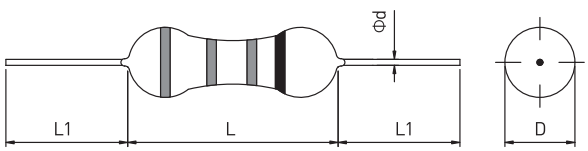
Model	Rated Power [W]	Maximum Working Voltage [V]	Surge Test	Resistance Range [Ω]	Resistance Tolerance [%]
MGR25	0.25W	500V	R≤100kΩ : 8kV/10nF R>100kΩ : 10kV/10Nf (2.5sec on/off 10cycle)	10kΩ ~ 33MΩ	F [±1] G [±2] J [±5] K [±10] M [±20]
MGR37	0.5W	1000V	R>100kΩ : 10kV/10nF (2.5sec on/off 10cycle)	10kΩ ~ 100MΩ	
MGR68	1W	3000V		10kΩ ~ 330MΩ	

CHARACTERISTICS

Values in [ ] mean change in Ω after test

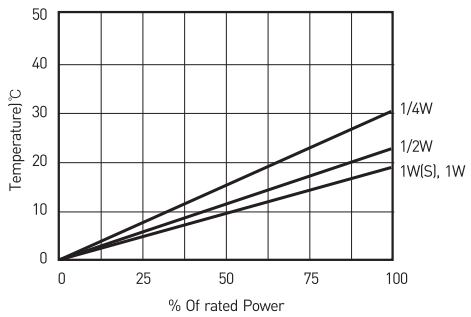
Operating Temperature Range		-55℃ ~ +155℃
Temperature coefficient	±200ppm/℃ maximum	-55℃-30minutes, +155℃-30minutes
Terminal Strength		2.5kgf, remains 5~10seconds
Dielectric Withstanding Voltage	±[1.0%+0.05Ω]	
Short Time Overload	±[2.5%+0.05Ω]	MGR25, MGR37 : 2.5 x Rated voltage, 5seconds on, 45seconds off, 10cycles MGR68 : 4 x Rated voltage, 5seconds on, 45seconds off, 10cycles
Load Life	±[5.0%+0.05Ω]	70±3℃, 0.5hours on 0.5hour off cycle, 1000±12hours, Pn or Vmax.
Rapid Change of Temperature	±[1%+0.05Ω]	30minutes -55℃, 30minutes +155℃, 5cycles
Over Load Test	±[5%+0.05Ω]	3.5 x Rated voltage , 1minute
Solderability	95% coverage	Solderability : 2seconds, 235±5℃, flux 600
Torsion	No damage	2.5kgf remains 5-10seconds

DIMENSIONS [mm]



Model	Dimensions (mm)			
	L	D	d±0.05	L1±3
MGR25	6.5±0.5	2.5±0.3	0.58	26
MGR37	9±1	3.5±0.3	0.7	26
MGR68	16±1	5.5±0.3	0.8	32

DERATING CURVES



ORDERING PROCEDURE EXAMPLE

MGR37 (Model #) — 1/2W (Rated Power) — 5MΩ (Resistance) — F (Tolerance) — TP (TP: Taping, BK: Bulk)