Metal Glaze Resistors - MG Series

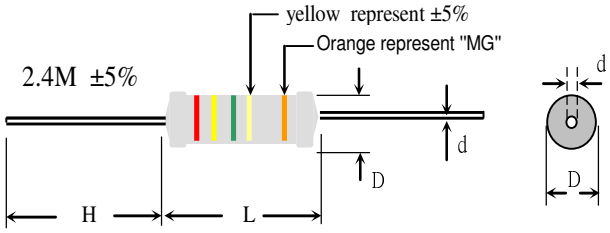
FEATURES

- Power rating: 1/4W to 2W at 70℃
- Superior performance against environmental condition and overload
- Flameproof body coating
- Standard tolerance: ±5%, (±1% available)
- Standard value: 100K-100Meg in E24 series
- Color band marking, but yellow and grey color are used to subsitute gold and silver because of high voltage properties in metal lacquer
- Identify "MG" by orange color of the 5th band

MATERIAL

- Element: super grade glazed film
- Core: high purity ceramic Al2O3
- Termination: standard solder-plated cooper lead
- Body Coating: silicone, grey color

DIMENSION



GENERAL SPECIFICATION

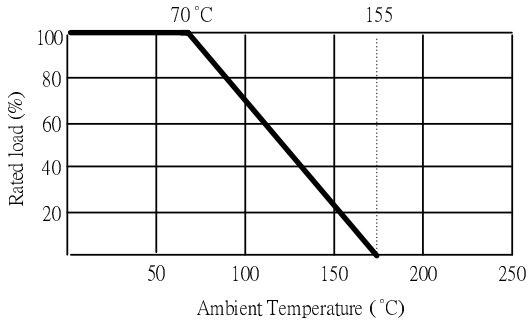
TYPE	DIMENSION (mm)				POWER	MAXIMUM VOLTAGE ★		RESISTANCE ★★
	L	D	H	d ± 0.05	RATING	WORKING	OVERLOAD	RANGE ±5%
MG1/4W	6.0±0.5	2.3±0.3	28 ±1.0	0.55	1/4W	1600V	1600V	100KΩ~ 100MΩ
MG1/2W	9.0±0.5	3.0±05	28 ±1.0	0.65	1/2W	3500V	3500V	100KΩ~ 100MΩ
MG1W	11±1.0	4.0±0.5	35 ±3.0	0.80	1W	3500V	3500V	100KΩ~ 100MΩ
MG2W	15±1.0	5.0±0.5	35 ±3.0	0.80	2W	3500V	3500V	100KΩ~ 100MΩ

★ Maximum working voltage (E) determined by $E=\sqrt{PxR}$, but not exceed the value listed in above column.

Maximum overload voltage determined by 2.0xE, but not exceed the value listed in above column.

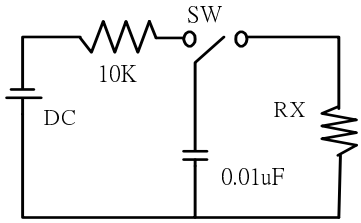
★★ Resistance values out of the standard range is available on request

DERATING CURVE



SURGE WITHSTANDING VOLTAGE

Discharge circuits



Pulse Load 10KV max.

2.5 seconds "ON"
2.5 seconds "OFF"
10 cycles

CHARACTERISTIC

Operating temperature	-55ºC ~+155ºC
Temperature Coefficient	±200ppm max.
Insulation Resistance	1000MΩ Min.
Load Life (1000 hours)	<±1.5% typical, (±5% in humidity)
Shorttime Overload	±0.5% Max.
Temperature Cycling	±1.0% Max.
Effect of Soldering	±1.0% Max.
Dielectric Withstanding Volt	700V
Pulse withstanding	±20% Max.

* Total maximum resistance change is △R+0.01R

HOW TO ORDER :

MG1/2W	1M	J	T
Type/Power/size	Resistance Value	Tolerance	Package
MG1/4W	470K = 470KΩ	J= ±5%	B=axial bulk
MG1/2W	5M6 = 5.6MΩ	F=±1%	T=tape/box
MG1W			R=tape/ reel
MG2W			Lead-Forming
			M
			MK
			MB
			FK

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