

METAL GLAZE RESISTOR - MG series

FEATURES

- Power rating: 1/4W to 2W at 70°C
- Superior performance against environmental condition and overload
- Flameproof body coating
- Standard tolerance: $\pm 5\%$, ($\pm 1\%$ available)
- Standard value: 100K-33Meg in E24 series
- Color band marking,

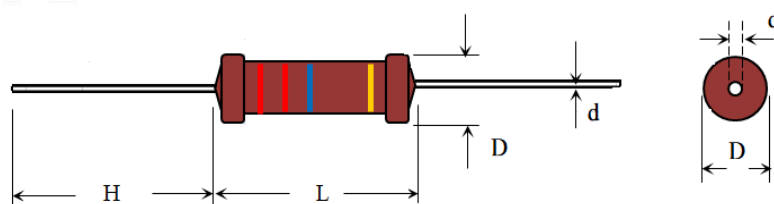


MATERIAL

- Element: super grade glazed film
- Core: high purity ceramic Al_2O_3
- Termination: standard solder-plated cooper lead
- Coating: Grey silicone



GENERAL SPECIFICATION



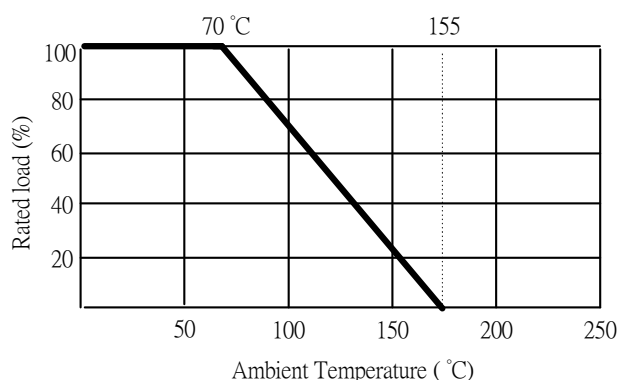
TYPE	DIMENSION (mm)				POWER RATING	MAXIMUM VOLTAGE *		STANDARD RESISTANCE (5%)**
	L	D	H	$d \pm 0.05$		WORKING	OVERLOAD	
MG1/4W	6.0 ± 0.5	2.3 ± 0.5	28 ± 1.0	0.60	1/4W	1600V	1600V	100K~33M
MG1/2W	9.0 ± 0.5	3.0 ± 0.5	28 ± 1.0	0.70	1/2W	3500V	3500V	100K~33M
MG1W	11 ± 1.0	4.0 ± 1	35 ± 3.0	0.80	1W	3500V	3500V	100K~33M
MG2W	15 ± 1.0	5.0 ± 1	35 ± 3.0	0.80	2W	3500V	3500V	100K~33M

* Maximum working voltage (E) determined by $E = \sqrt{PxR}$, but $\leq$ the value listed in above column.

Maximum overload voltage determined by $2.0 \times E$, but $\leq$ the value listed in above column.

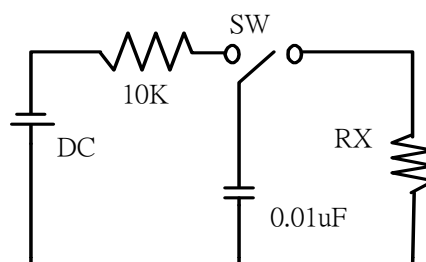
** Resistance out of the standard range is available on request

DERATING CURVE



SURGE WITHSTANDING '

Discharge circuit



Pulse Load 10KV max.

2.5 seconds "ON"

2.5 seconds "OFF"

10 cycles

CHARACTERISTIC

TEST	TEST METHOD		APPRAISE
Temperature Coefficient	IEC 60115-1 4.8	-55°C~155°C	±200ppm max.
Load Life (1000 hours)	IEC 60115-1 4.25	70±2°C at RCWV for 1000 hours (1.5 Hr. on , 0.5 Hr. off)	<±1.5% typical , (±5% in humidity)
Shorttime Overload	IEC 60115-1 4.13	2.5 times rated power for 5 sec.	±2.5% Max.
Temperature Cycling	IEC 60115-1 4.19	-55°C → room temp. → +155°C → room temp. (5 cycles)	±1.0% Max.
Solderability	IEC 60115-1 4.17	235±5°C for 3±0.5 sec.	95% min. coverage
Effect of Soldering	IEC 60115-1 4.18	260±3°C for 10±1 sec. immersed to point 3±0.5mm from the body	±1.0% Max.

HOW TO ORDER :

<u>SERIES</u>	<u>WATTAGE</u>	<u>RESISTANCE</u>	<u>TOLERANCE</u>	<u>PACKAGE</u>
MG	1/4W	470K=470KΩ	5%	T=TAPING BOX
	1/2W	5M6=5.6MΩ	1%	R=TAPING REEL
	1W			B=BULK
	2W			

PACKAGE STANDARD PACKAGE QUANTITY :

TYPE	T=TAPING BOX	R=TAPING REEL	B=BULK	FORMING
1/4W	5000	5000	1000 pcs/bag , 10kpcs/box	By request
1/2W	2000	2500	500 pcs/bag , 5kpcs/box	By request
1W	1000	2000	500 pcs/bag , 2kpcs/box	By request
2W	1000	1000	500 pcs/bag , 1kpcs/box	By request