

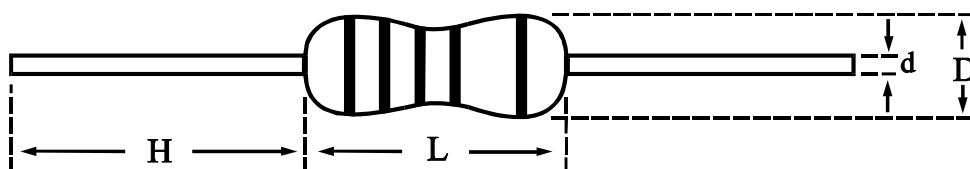
## MGL series Metal Glazed Resistors

### ◆ Features

- » Higher working voltage
- » High pulse loading capability
- » Resistance to high Temp/humidity
- » Highly stable performance and highly reliable

### ◆ Power Ratings Dimensions

- » Body Color :Silicone Resin is Brown (Flame-Proof), Epoxy Resin is Light Blue(Standard)



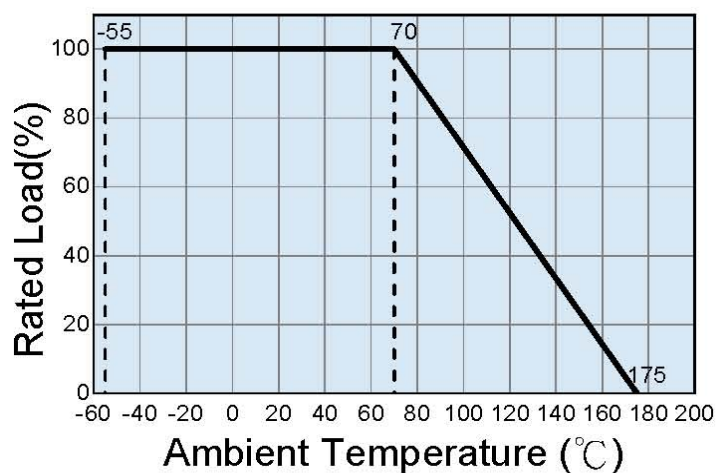
STYLE	DIMENSION (mm)				VALUE RANGE
	L	ØD	H	Ød	
1/4W 1/2WS	6.3±0.5	2.3±0.3	28±2	0.55±0.03	1K-10G
1/2W 1WS	9.0±0.5	3.2±0.5	26±2	0.65±0.03	
1W 2WS	11.5±1.0	4.5±0.5	35±2	0.78±0.03	
2W 3WS	15.5±1.0	5.0±0.5	32±2	0.78±0.03	



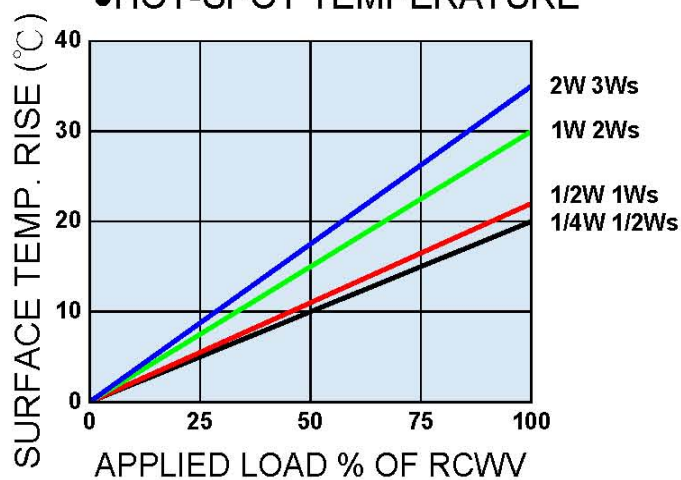
## ◆ Part Number

MGL	25	J	10M	T
Type	Watt	Tolerance	R value	Packing
MGL=Standard MGLS=Miniature	1/4W = 25	K = $\pm 10\%$	51K=51K ohm	T = Taped
MGLC=Flame-Proof	1/2W = 50	J = $\pm 5\%$	2M2=2.2M ohm	B = Bulk
	1W = 100	G = $\pm 2\%$	1G=1G ohm	
	2W= 200	F = $\pm 1\%$		
	3W=300	D = $\pm 0.5\%$		
		C = $\pm 0.25\%$		

●POWER GRAPH



●HOT-SPOT TEMPERATURE



## ◆ Electrical Characteristics

Power Rating	MAX. WORKING VOL	MAX. OVERLOAD VOL	Dielectric Withstanding VOL.		RESISTANCE TOLERANCE	T.C.R	Measured
			Silicone Resin (MGLC)	Epoxy Resin (MGL)			
1/4W	DC1600V	DC2000V	400V	500V	R>1G	Standard: 1K<=R<=1G	DC 100volts
	AC1150V	AC1500V			K(+/-10%) E12		
1/2WS	DC1700V	2500V	400V	500V	R<=1G	+/-200ppm	DC 1000volts
1/2W	DC3500V	4000V	500V	700V	K(+/-10%) E12	R>G	
1WS	DC4000V	4500V	500V	700V	J(+/-5%) E24	+/-500ppm	DC 1000volts
1W	DC4500V	5000V	500V	1000V	F(+/-1%) E24	Special: +/-100ppm	
2WS	DC5000V	10000V	500V	1000V	1M<=R<=100M	+/-50ppm	1M<=R
2W	DC7000V	14000V	700V	1200V	(0.5%) E24		
3WS	DC10000V	14000V	700V	1200V			

Operating Temperature Range -55℃ ~ +175℃

Rated continuous Working Voltage (RCWV) =  $\sqrt{POWER RATING * RESISTANCE VALUE}$

Value range for standard resistance, below or over this resistance on request.

## ◆ Environmental Characteristics

TEST ITEMS	Test Methods	SPECIFICATIONS
Short time overload	Rated Voltage X 2.5 or Max. overload Vol., whichever is lower, for 5sec.	± ( 1.0%+0.05Ω )
Moisture resistance	40℃±2℃, 90%~95%RH,1000h 90 min 【ON】 30 min 【OFF】	± ( 5.0%+0.05Ω )
Load life	1000hours at rated voltage, 70℃ 90 min 【ON】 30 min 【OFF】	± ( 3.0%+0.05Ω )
Insulation resistance	500±50V DC During 1 min V-Block method	±10,000MΩ Over
Dielectric withstanding voltage	In V-Block for 60 seconds	By Type
Resistance to soldering heat	260℃±5℃,10s±1s or 350℃±10℃, 3.5s±0.5s	± ( 1.0%+0.05Ω )
Terminal strength	Direct load for 10 sec. In the direction off the terminal leads.	Tensile: ≥ 2.5kg
Intermittent overload	4 times RCWV for10000cycles(1sec.on · 25secs.off)	±(1%+0.05Ω)