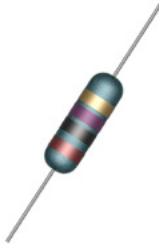


# MG Series

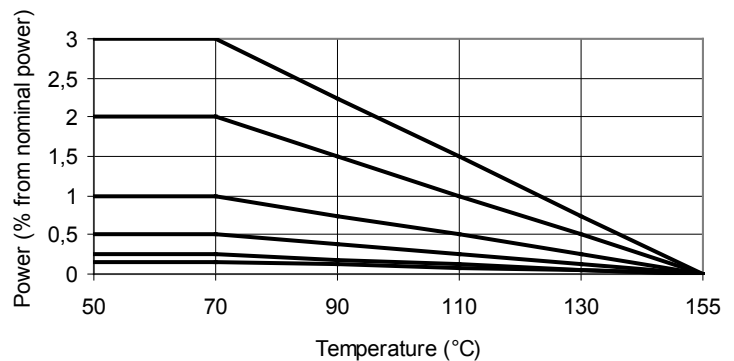
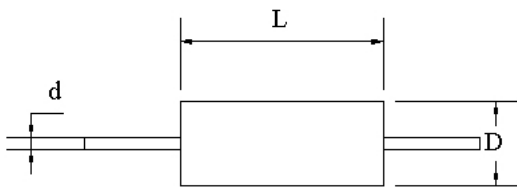
Metal Glaze Film Resistors



- Resistances from 1kOhm to 2GOhms
- Power Rating to 2 Watts
- Resistance Tolerances to  $\pm 0.5\%$
- Max. working voltage to 10kV
- Convenient RN Type Package Styles

## SPECIFICATIONS

Type	MG55	MG60	MG65	MG70	MG75
DIN-44061 Type	0207	0414	0617	0719	-
Resistance Range	1kOhms to 1GOhms			1kOhms to 2GOhms	
Power rating (70°C)	0.25W	0.50W	1.0W	2.0W	3.0W
Tolerances	0.5% / 1% / 5% / 10%				
Temperature Coefficient	50 / 100 / 200ppm/°C				
Operating Voltage (Umax)	1600V	3500V	5000V	7000V	10000V
Short Time Overload Voltage	3500V	3500V	7000V	10000V	10000V
Operating Temperature Range	-55 to 155°C				
Insulation Resistance	>1G				
Insulation Voltage	$\geq 300V$	$\geq 700V$	$\geq 700V$	$\geq 700V$	$\geq 1000V$
Max. Dimensions in mm [inches]					
L	6.0 [0.24]	10.0 [0.39]	13 [0.51]	17.0 [0.67]	24.0 [0.94]
D	2.5 [0.1]	3.5 [0.14]	4.5 [0.18]	5.5 [0.22]	8.0 [0.31]
d	0.6 [0.024]	0.6 [0.024]	0.7 [0.027]	0.8 [0.031]	0.8 [0.031]
Tolerance	$\pm 0.1$ [0.003]	$\pm 0.1$ [0.003]	$\pm 0.1$ [0.003]	$\pm 0.1$ [0.003]	$\pm 0.1$ [0.003]



## Ordering Information

Part Description: Part type - Resistance - Tolerance  
 MG55 100 kOhms 0.5%

# MG Series

Metal Glaze Film Resistors



## Environmental Specifications

Test	Results
$\Delta R/R$ max after 1000h At Rated Power	$\leq 1.5\%$
$\Delta R/R$ max after 8000h At Rated Power	$\leq 2.5\%$
Damp Heat Steady State	0.01xP70, less than 100VDC; $40 \pm 2^\circ\text{C}$ ; 56 days, 90~95% RH; $\Delta R/R_{\text{max}} \leq 1.5\%$
Rapid Change of Temperature	30 minutes at $-55^\circ\text{C}$ ; 30 minutes at $+155^\circ\text{C}$ ; 5 cycles; $\Delta R/R_{\text{max}} \leq 0.5\%$