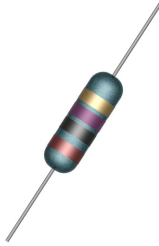


MG Series

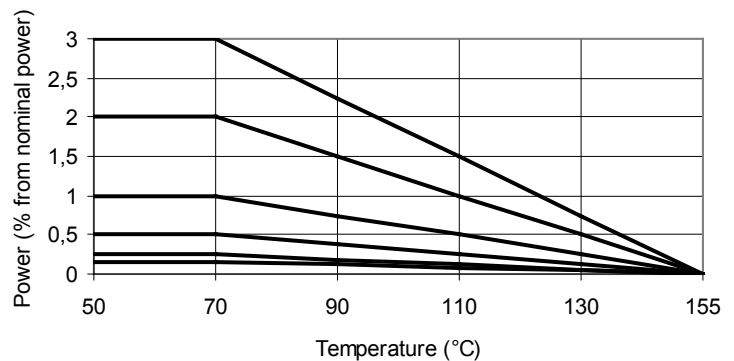
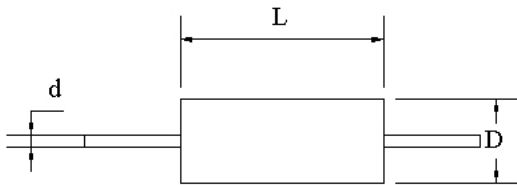
Metal Glaze Film Resistors



- 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 |
|---|----------------------|-------------------|-------------------|-------------------|
| 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 |
| Tolerances | 0.5% / 1% / 5% / 10% | | | |
| Temperature Coefficient | 50 / 100 / 200ppm/K | | | |
| Operating Voltage (Umax) | 1600V | 3500V | 7000V | 10000V |
| Short Time Overload Voltage | 3200V | 5000V | 10000V | 15000V |
| Operating Temperature Range | -55 to 155°C | | | |
| $\Delta R/R$ max after 1000h At Rated Power | $\leq 1.5\%$ | | | |
| $\Delta R/R$ max after 8000h At Rated Power | $\leq 2.5\%$ | | | |
| Insulation Resistance | $> 1G$ | | | |
| Insulation Voltage | $\geq 300V$ | $\geq 700V$ | $\geq 700V$ | $\geq 700V$ |
| Dimensions in mm [inches] | | | | |
| L | 6.0 [0.24] | 10.0 [0.39] | 13 [0.51] | 17.0 [0.67] |
| D | 2.5 [0.1] | 3.5 [0.14] | 4.5 [0.18] | 5.5 [0.22] |
| d | 0.6 [0.024] | 0.6 [0.024] | 0.7 [0.027] | 0.8 [0.031] |
| Tolerance | ± 0.1 [0.003] | ± 0.1 [0.003] | ± 0.1 [0.003] | ± 0.1 [0.003] |



Ordering Information

Part Number - 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°C ; 30 minutes at $+155^\circ\text{C}$; 5 cycles; $\Delta R/R_{\text{max}} \leq 0.5\%$ |