



MELF Resistors

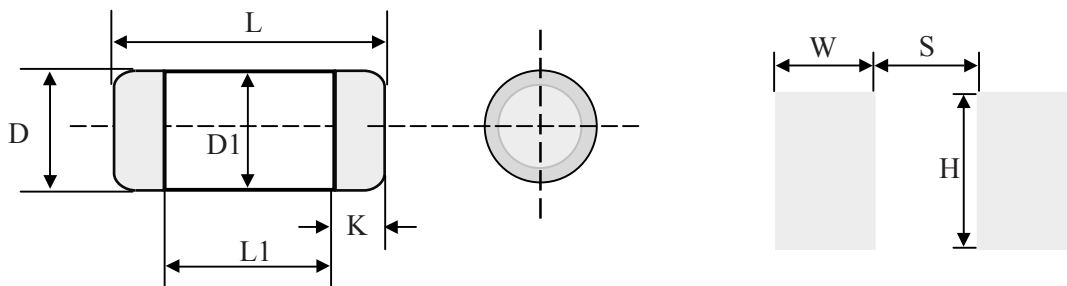
Metal Glaze Film - RGM series Pulse Melf Resistors / 玻璃釉膜晶圓电阻

► Features

- Advanced metal glaze film technology.
- High pulse loading capability.
- Wide resistance range: 50kΩ to 1GΩ.
- Tolerance up to ±0.5%.
- Power dissipation rating at 70°C up to 3W.
- Larger power dissipation under request.
- Maximum working voltage over 10000V.
- Small size.



► RGM Resistors Quick Reference Data



| Type | RGM72 | RGM73 | RGM74 | RGM16M | RGM17M | RGM18M | |
|---|-------------------------------------|---------------|---------------|---------------|---------------|---------------|-----------|
| Resistance range (Ω) | 50k ~ 200M | 50k ~ 200M | 50k ~ 1G | 50k ~ 1G | 100k ~ 2G | 50k ~ 2G | |
| Resistance Tolerance | D(±0.5%); F(±1%); J(±5.0%); K(±10%) | | | | | | |
| Temperature coefficient | ±100ppm/°C; ±200ppm/°C | | | | | | |
| Rated dissipation (W) P_{70} | 0.125 | 0.25 | 0.50 | 1.0 | 2.0 | 3.0 | |
| Operating voltage (V) U_{max} | 400 | 800 | 1500 | 3000 | 6000 | 10000 | |
| Short time over load voltage (V) | 800 | 1500 | 3000 | 6000 | 10000 | 20000 | |
| Operating Temperature range | -55°C ~ 155°C | | | | | | |
| Endurance, Max, resistance change at P_{70} $\Delta R/R$ max., after 1000h | 50k Ω ~ 10M Ω | 50k Ω ~ 10M Ω | 50k Ω ~ 22M Ω | 50k Ω ~ 22M Ω | 50k Ω ~ 22M Ω | 50k Ω ~ 22M Ω | |
| Insulation voltage | >500V | | | | | | |
| Insulation resistance | >1GΩ | | | | | | |
| Dimension Max.(mm) | L | 2.2 | 3.5 | 5.5 | 5.9 | 8.6 | 11.6 |
| | L1 | 1.0 | 1.6 | 3.5 | 3.9 | 6.2 | 8.8 |
| | D | 1.3 | 1.3 | 2.1 | 2.1 | 3.1 | 3.6 |
| | K | 0.4 | 0.8 | 1.0 | 1.2 | 1.5 | 1.6 |
| | D1 | D+0/D-0.15 | D+0/D-0.25 | D+0/D-0.5 | D+0/D-0.5 | D+0/D-0.5 | D+0/D-0.5 |
| Soldering bath (recommended) (mm) | S | 1.0 | 1.6 | 2.6 | 2.8 | 5.6 | 8.2 |
| | W | 2.0 | 2.5 | 2.5 | 2.8 | 3.2 | 4.0 |
| | H | 2.0 | 2.5 | 2.5 | 2.8 | 3.8 | 4.5 |



MELF Resistors

► How to Order

RGM16M

①

1MR

②

J

③

T

④

① Product type: RGM72, RGM73, RGM74, RGM16M, RGM17M, RGM18M

② Resistance Value: 50kΩ ~ 200MΩ, 50kΩ ~ 200MΩ, 50kΩ~ 1GΩ, 50kΩ~ 1GΩ, 100kΩ~ 2GΩ, 50kΩ~ 2GΩ

③ Resistance Tolerance (%)

| Code | Resistance Tolerance |
|------|----------------------|
| D | ±0.5% |
| F | ±1% |
| J | ±5.0% |
| K | ±10% |

④ Packaging

| Code | Packaging |
|------|-------------|
| T | Taping Reel |
| P | Bulk |

