

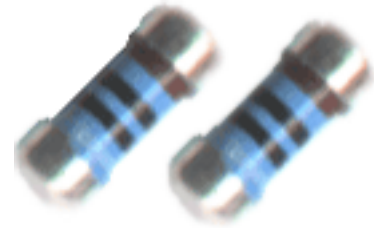


MELF Resistors

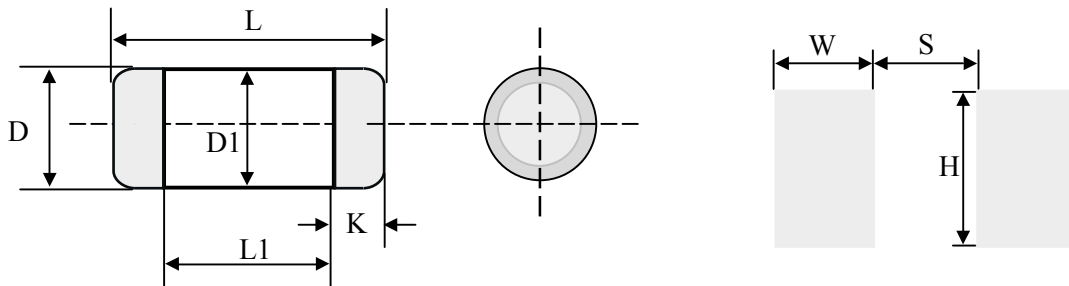
Metal Film RJM series - Melf Resistor / 超精密金属膜晶圓电阻

► Features

- Advanced thin film technology.
- Low TCR: lower than $\pm 5\text{ppm}/^\circ\text{C}$.
- Tolerance up to $\pm 0.05\%$.
- Power dissipation rating up to 5W.
- Excellent overall stability: Class 0.10.
- Wide resistance range: 0.1Ω to $22\text{M}\Omega$.
- Very high ratio of performance to price.



► RJM Resistor Quick Reference Data



| Type | RJM72P | RJM73S | RJM73P | RJM74S | RJM74P | RJM16M | RJM17M | RJM18M |
|--|--|----------------|------------|-----------|--------|---------------|---------------|---------------|
| Metric type | DIN: 0102 | DIN: 0204 | | DIN: 0207 | | | DIN: 0411 | |
| Rated dissipation P_{70} | 0.125W | 0.125W | 0.25W | 0.25W | 0.50W | 1.0W | 2.0W | 3.0W |
| Resistance range (Ω) | 10 ~ 1M | 0.1 ~ 10M | | 0.1 ~ 22M | | | 0.1 ~ 22M | |
| Resistance tolerance (%) | J (± 5); F (± 1); D (± 0.5); C (± 0.25); B (± 0.10); A5 (± 0.05) | | | | | | | |
| Temperature coefficient (ppm/ $^\circ\text{C}$) | C2 (± 50); C3 (± 25); C5 (± 15); C6 (± 10); C7 (± 5) | | | | | | | |
| Climatic category (LCT/UCT/days) | 55 / 125 / 56 | | | | | | | |
| Operating voltage U_{max} | 200V | 200V | 250V | 250V | 300V | 350V | 400V | 450V |
| Temperature range | -55 $^\circ\text{C}$ to 125 $^\circ\text{C}$ | | | | | | | |
| Insulation voltage (V) | 300 | 300 | 300 | 300 | 600 | 700 | 800 | 900 |
| Insulation resistance | >1G Ω | | | | | | | |
| Dimension (mm) | L(± 0.2) | 2.2 | 3.5 | 5.5 | | 5.9 | 8.6 | 11.6 |
| | L1(± 0.2) | 1.0 | 1.6 | 3.5 | | 3.9 | 6.2 | 8.8 |
| | D(± 0.2) | 1.3 | 1.3 | 2.1 | | 2.1 | 3.1 | 3.6 |
| | K(± 0.1) | 0.4 | 0.8 | 1.0 | | 1.2 | 1.5 | 1.6 |
| | D1(± 0.1) | 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 |

Notice • Resistance out of range, tolerance and temperature coefficient match are under request.

• RJM72 is still in trial production.



MELF Resistors

► How to Order

| | | | | |
|--------|-----|---|----|---|
| RJM74P | 10R | D | C6 | T |
| ① | ② | ③ | ④ | ⑤ |

① Product type: RJM72P, RJM73S, RJM73P, RJM74S, RJM74P, RJM16M, RJM17M, RJM18M

② Resistance Value : 10Ω ~ 1MΩ, 0.1Ω ~ 10MΩ, 0.1Ω~ 22MΩ, 0.1Ω~ 22MΩ

③ Resistance Tolerance (%)

| Code | Resistance Tolerance |
|------|----------------------|
| J | ±5% |
| F | ±1% |
| D | ±0.5% |
| C | ±0.25% |
| B | ±0.10% |
| A5 | ±0.05% |

④ Temperature coefficient (ppm/°C)

| Code | Temperature coefficient |
|------|-------------------------|
| C2 | ±50 ppm/°C |
| C3 | ±25 ppm/°C |
| C5 | ±15 ppm/°C |
| C6 | ±10 ppm/°C |
| C7 | ±5 ppm/°C |

⑤ Packaging

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