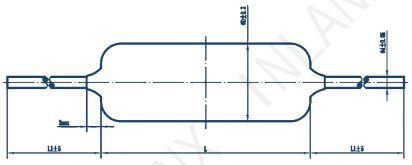
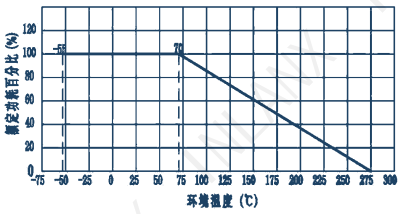
# RXG91-3A Current Limiting Wirewound Resistor

## Outline Drawing



## Derating Curve







Quality grade J; detail specification Q/RU 606-2019; general specification GJB 2828-1997.

## Dimensions • mm

| Model | Lmax | ΦDmax | L1 | Φdmax |
|---|---|---|---|---|
| RXG91-3A | 17 | 7.5 | 25 | 0.9 |

## Electrical Specifications

| Model | Rated W | Resistance Ω | Tolerance | TCR ×10□□/K |
|---|---|---|---|---|
| RXG91-3A | 3 | 1~10 | ±1%, ±2%, ±5% | ≤±100 |

## Main Inspection Items

| Item | Test method | Requirement |
|---|---|---|
| Continuous pulses | 400W, 100ms, 2.5min interval, 20000 pulses | ΔR≤±(5%R+0.05Ω), no damage |
| Thermal shock | Apply UR until thermal steady state | ΔR≤±(0.5%R+0.05Ω), no damage |
| Temperature shock | -55/125°C, 30min each, transfer <1min, 5 cycles | ΔR≤±(0.5%R+0.05Ω), no damage |
| Short-time overload | 5PR, 5s | ΔR≤±(0.5%R+0.05Ω), no damage |
| Solderability | 245±2°C, 5s, immerse to within 1.6mm of body | Tin coverage ≥95% |
| High-temp exposure | 275(+5/-0)°C, 250±8h | ΔR≤±(1%R+0.05Ω), no damage |
| Moisture resistance | DC load at 85% rated power; 100VDC polarization | ΔR≤±(0.5%R+0.05Ω); Ri≥100MΩ; no lead corrosion |
| High-frequency vibration | 10–2000Hz, 0.75mm, 200m/s², 6 per each of 2 axes | ΔR≤±(0.2%R+0.05Ω), no damage |
| Random vibration | 20(m/s²)²/Hz, 169.1m/s², 5min per each of 3 axes | ΔR≤±(0.2%R+0.05Ω), no damage |
| Life | 70(+5/-0)°C, rated-power DC, 1.5h on/0.5h off, 2000h | ΔR≤±(1%R+0.05Ω), no damage |

## Ordering Information

### RXG91-3A-5Ω-F

Model RXG91 / variant 3A / nominal resistance / tolerance: F±1%, G±2%, J±5%.