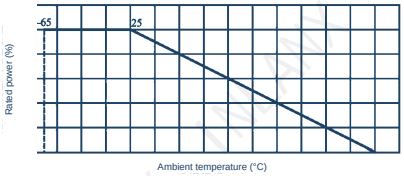
RXG712A Power Wirewound Fixed Resistor

Outline Drawing



Derating Curve





Grades J; detail specification Q/RU 26009-2020; general specification GJB 2828-1997.

Dimensions • mm

Power W	L	ΦD	Φd	L1
1	6.3±0.1	2.4±0.05	0.5 +0/-0.05	25±2
1.5	7±0.1	2.8±0.05	0.6 +0/-0.05	25±2
2	10.9±0.1	2.8±0.05	0.6 +0/-0.05	25±2
3	15.4±0.1	5.3±0.05	0.8 +0/-0.05	25±2

Electrical Specifications

R<10Ω: TCR not assessed; R≥10Ω: ≤100×10□□/K. R≥1Ω tolerance ±1, ±2, ±5%; R<1Ω ±2, ±5%.

Power W	Resistance Ω	Tolerance %	Series	Temp. °C
1	1–150	±1, ±2, ±5	—	-65–275
1.5	0.1–1k	±1, ±2, ±5	—	-65–275
2	0.1–2k	±2, ±5	—	-65–275
3	0.1–3.9k	±2, ±5	—	-65–275

Main Inspection Items

Item	Test method	Requirement
Short-time overload	5PR, 5s	No arcing, burning or damage; ΔR≤±(0.5%R+0.05Ω)
Solderability	245±2°C, 5–10s, ~1.5mm from body	Tin coverage ≥95%
TCR characteristic	-55 to 275°C	By resistance band as rated
Dielectric withstand	500VAC	No breakdown/arcing; ΔR≤±(0.2%R+0.05Ω)
Insulation resistance	100VDC	Ri≥1000MΩ
Lead strength	25N, 30s	No damage; ΔR≤±(0.2%R+0.05Ω)
Shock	1000m/s², 6ms, half-sine	No damage; ΔR≤±(0.2%R+0.05Ω)
High-frequency vibration	10–2000Hz, 0.75mm or 200m/s², 12h	No damage; ΔR≤±(0.2%R+0.05Ω)
High-temp exposure	275(+5/-0)°C, 250±8h	No damage; ΔR≤±(1%R+0.05Ω)
Life	25(+10/-5)°C, UR, 1.5h on/0.5h off, 2000h	No damage; ΔR≤±(1%R+0.05Ω)
Moisture resistance	RH90–100%, load 85%UR, polarization 100VDC	No damage; ΔR≤±(0.5%R+0.05Ω), Ri≥100MΩ
Low-temp storage	-65±2°C, 24±4h	No damage; ΔR≤±(0.5%R+0.05Ω)
Thermal shock	Apply PR to steady state; remove load and place in -55(+5/0)°C chamber within 8–12s for 15min	No damage; ΔR≤±(0.5%R+0.05Ω)

Ordering Information

RXG712A-1W-10Ω-J

Model / power / nominal resistance / tolerance F±1%, G±2%, J±5%.