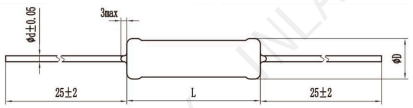
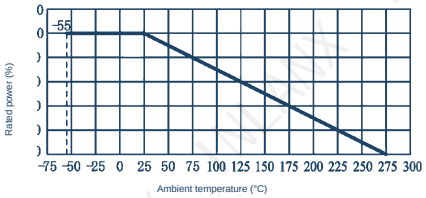
RXG712 Power Wirewound Fixed Resistor

Outline Drawing



Derating Curve





Grades YC、J、CAST C、SAST、SAST G、QJB/K; detail specification Q/RU 22828.4-2003; general specification GJB 2828-1997.

Dimensions • mm

Drawing also marks lead Φd±0.05 and 3max.

Power W	L	ΦD	Φd	Lead each side
1	7.5 max	3.3 max	0.7	25±2
2	11.5 max	3.3 max	0.7	25±2
3	16.0 max	6.0 max	0.8	25±2

Electrical Specifications

R>10Ω: TCR≤±50; 1Ω≤R≤10Ω: ≤±100 ×10□□/K; R<1Ω not assessed. Non-inductive N/NC only for CAST, LMS, YC; no suffix means inductive.

Power W	Resistance Ω	Tolerance %	Series	Temp. °C
1	0.1–150	±1, ±2, ±5	E48	-55–275
2	0.1–300	±1, ±2, ±5	E48	-55–275
3	0.1–500	±1, ±2, ±5	E48	-55–275

Main Inspection Items

Item	Test method	Requirement
Short-time overload	5PR, 5s	No arcing, burning or damage; ΔR≤±(0.5%R+0.05Ω)
Solderability	235±2°C, 5–10s, ~1.5mm from body	Tin coverage ≥95%
TCR characteristic	-55 to 275°C	By resistance band as rated
Dielectric withstand	1/2W 500VAC, 3W 1000VAC	No breakdown/arcing; ΔR≤±(0.2%R+0.05Ω)
Insulation resistance	100VDC	Ri≥1000MΩ
Lead strength	1/2W 25N, 3W 45N	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

RXG712-1W-10Ω-J-N

Model / power / nominal resistance / tolerance F±1%, G±2%, J±5% / winding code N or NC where applicable.