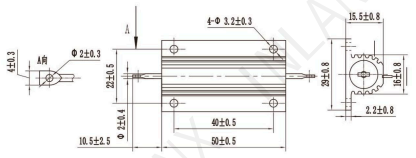
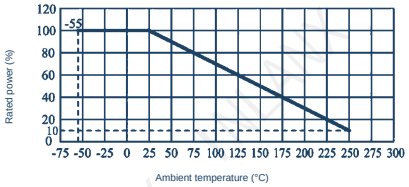
RXGK12 Including Space Grade Power Wirewound Fixed Resistor

Outline Drawing



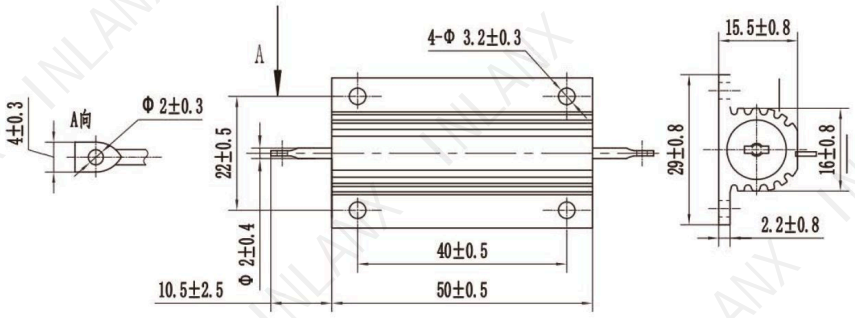
Derating Curve





Grade A. Detail specification ZZR-Q/RU 26786.2-2012; general specification GJB 6786-2009. Lead/winding code S denotes solderable, inductive construction.

Three-View Outline Drawing (enlarged)



Electrical Specifications

0.1Ω≤R≤0.499Ω: ≤±650; 0.499Ω<R≤1Ω: ≤±400; 1Ω<R≤10Ω: ≤±50; R>10Ω: ≤±30 ×10□□/K. At -55 to 25°C full load, heatsink 178×127×51mm, profile 1mm.

Model & power	Resistance Ω	Tolerance %	Series	Temp. °C	TCR ×10□□/K
RXGK12-50W	0.1–13.3k	±1	E96	-55 to 250	By band below

Main Inspection Items

Item	Test method	Requirement
Thermal shock	-65(+5/0) to 125(+3/0)°C, 50 cycles	No damage; ΔR<±(0.2%R+0.005Ω)
Low-temp storage	-55±2°C, 24±4h	No damage; ΔR<±(0.1%R+0.005Ω)
Lead strength	Pull 45N, 5–10s; bend 90°, rotate 360° 3 times	No damage; ΔR<±(0.1%R+0.005Ω)
Shock	1000m/s², 6ms, 2.96m/s, terminal-peak sawtooth	No damage; ΔR<±(0.1%R+0.005Ω)
High-frequency vibration	10–2000Hz, 0.75mm, 200m/s², 12h	No damage; ΔR<±(0.1%R+0.005Ω)
Random vibration	4(m/s²)²/Hz, 75.6m/s², 3 axes total 15min	No damage; ΔR<±(0.2%R+0.005Ω)
Life	25±5°C, UR, 1.5h on/0.5h off, 10000h	No damage; ΔR<±(1%R+0.005Ω)
High-temp exposure	250±7°C, 2000h (+72/-24h per source)	No damage; R>100Ω: ΔR<±1%R; otherwise ±(1%R+0.005Ω)
TCR characteristic	-55 to 250°C	TCR by resistance band as rated
Short-time overload	2UR,5s	No arcing/burning/damage; ΔR<±(0.2%R+0.005Ω)
Moisture resistance	Load UR; polarization 100VDC	No damage; ΔR<±(0.2%R+0.005Ω), Ri≥100MΩ
Dielectric withstand	Normal: 1500VAC; low pressure 100VAC at 1.06kPa; each 1min	No arcing/breakdown, leakage <0.5mA; ΔR<±(0.1%R+0.005Ω)
Insulation resistance	100VDC	Ri≥1GΩ

Ordering Information

RXGK12-S-1Ω-F

RXGK12 / lead and winding S (solderable, inductive) / nominal resistance / tolerance code F±1%.