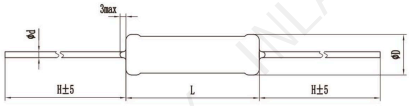
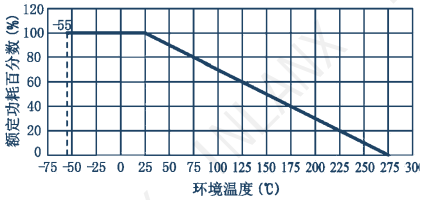
RXG21 Power Wirewound Fixed Resistor

Outline Drawing



Derating Curve





Grades YC, J, CAST C, SAST, GJB/K and GJB/K+; general specification GJB 2828-1997. CAST, SAST and YC products also require their procurement specifications.

Applicable Standards

Grade	Detail spec.
YC	Q/QJA 20088/1A-2019
J	ZZR-Q/RU 22828.1A-2008
CAST C	CASTPS 01/023-2006
SAST	SASTYPS 0501/0007-2015
GJB/K	Q/RU 22828.6-2006; Q/RU 22828.3-2002
GJB/K+	ZZR(Z)-Q/RU 22828.1B-2010

Dimensions • mm

Original drawing also marks H±5 and end section 3max.

Power W	Lmax	ΦDmax	H	Φdmax
0.5	15	5	25	0.8
1	17	7	25	0.9
2	19	7.5	25	0.9
3	20	8	25	0.9
4	27	11	30	1.1
6	30	11	30	1.1
8	36	11	30	1.1
10	41	11	30	1.1
12	55	11	30	1.1

Electrical Specifications

Tolerance ±1%, ±2%, ±5%; E96 series; -55 to 275°C; TCR≤±50×10□□/K for R>10Ω, ≤±100×10□□/K for 1Ω≤R≤10Ω, below 1Ω not assessed.

Power W	Resistance Ω
0.5	1–150
1	0.1–332
2	0.1–511
3	0.1–536
4	0.1–1 (GJB); 1–1.5k
6	0.1–1 (GJB); 1–3.01k
8	0.1–1 (GJB); 1–3.32k
10	1–3.6k
12	1–6.2k

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Main Inspection Items

Item	Method	Requirement
High-temperature exposure	275(+5/-0)°C, 250±8h	ΔR≤±(1%R+0.05Ω); no damage
Life	25(+10/-5)°C, UR, 1.5h on/0.5h off, 2000h	ΔR≤±(1%R+0.05Ω); no damage
Low-temperature storage	-65±2°C, 24±4h	ΔR≤±(0.5%R+0.05Ω); no damage
Thermal shock	Apply PR to steady state, unload and place at -55°C within 8–12s for 15min	ΔR≤±(0.5%R+0.05Ω); no damage
Shock	1000m/s², 6ms half-sine	ΔR≤±(0.2%R+0.05Ω); no damage
High-frequency vibration	10–2000Hz, 0.75mm or 200m/s², 12h	ΔR≤±(0.2%R+0.05Ω); no damage
Terminal strength	0.5W 10N, 1W 25N, 2W 22.5N, 3–12W 45N, 30s	ΔR≤±(0.2%R+0.05Ω); no damage
Short-time overload	0.5–3W 5PR; 4–12W 10PR; 5s	ΔR≤±(0.5%R+0.05Ω)
Solderability	235±2°C, 5–10s, ~1.5mm from body	Tin coverage ≥95%
Insulation resistance	100VDC	Ri≥1000MΩ
TCR characteristic	-55 to 275°C	R>10Ω≤±50; 1Ω≤R≤10Ω≤±100 ×10□□/K
Dielectric withstand	0.5W 300VAC; 1–2W 500VAC; 3–12W 1000VAC	No breakdown/flashover; ΔR≤±(0.2%R+0.05Ω)
Moisture resistance	a load 85%PR; b polarization 100VDC	ΔR≤±(0.5%R+0.05Ω); no damage

Ordering Information

RXG21-1W-U-10Ω-J

Model / power / U characteristic (zero-power ambient maximum 275°C) / nominal resistance / tolerance F±1%, G±2%, J±5%.