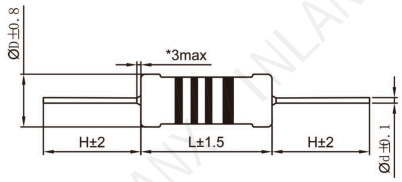
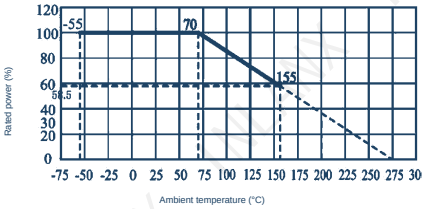
RX21P Power Wirewound Resistor

Outline Drawing



Derating Curve





Grade QB; detail specification Q/RU 629-2024; general specification GB/T 5729-2003.

Dimensions • mm

Source drawing also marks L±1.5, H±2, ΦD±0.8, Φd±0.1 and 3max.

Power W	L	ΦD	H	Φd
1	12.5	4.2	25	0.8
3	15.2	5.7	25	0.8
4	22.5	8.7	30	1.0
6	24.2	8.7	30	1.0
8	32.0	8.7	30	1.0
10	35.8	8.7	30	1.0
12	51.0	8.7	25	1.0

Electrical Specifications

Power W	Resistance Ω	Tolerance %	Temp. °C	TCR ×10□□/K
1	0.1–100	±5 / ±10	-55 to 155	R≥10Ω: ≤±500; R<10Ω: not assessed
3	0.1–180	±5 / ±10	-55 to 155	R≥10Ω: ≤±500; R<10Ω: not assessed
4	0.1–500	±5 / ±10	-55 to 155	R≥10Ω: ≤±500; R<10Ω: not assessed
6	0.15–600	±5 / ±10	-55 to 155	R≥10Ω: ≤±500; R<10Ω: not assessed
8	0.2–900	±5 / ±10	-55 to 155	R≥10Ω: ≤±500; R<10Ω: not assessed
10	0.2–1000	±5 / ±10	-55 to 155	R≥10Ω: ≤±500; R<10Ω: not assessed
12	0.4–1600	±5 / ±10	-55 to 155	R≥10Ω: ≤±500; R<10Ω: not assessed

Main Inspection Items

Color bands may discolor when product surface temperature exceeds 180°C.

Item	Method	Requirement
Solderability	265±5°C, 2±0.5s, 6–7mm from body	Tin coverage ≥90%; no concentrated nonwetting
Overload	V=√(10PR), 5s	No damage; ΔR≤±(1%R+0.5Ω)
Resistance versus temperature	-55 to 155°C	No damage; TCR≤±500×10□□/°C at R≥10Ω
Lead strength	Tension 20N for 5–10s; bend 90°, 10N, 3 times	No damage, looseness or detachment; ΔR≤±(1%R+0.5Ω)
Soldering heat	350±5°C, 3.5±0.5s, 6–7mm from body	No damage; ΔR≤±(1%R+0.5Ω)
Rapid temperature change	-55 to 155°C, 3 cycles	No damage; ΔR≤±(1%R+0.5Ω)
Shock	Half-sine, 490m/s², 11ms	No damage; ΔR≤±(1%R+0.5Ω)
Vibration	10–500Hz, 0.75mm or 98m/s², 2h per axis	No damage; ΔR≤±(1%R+0.5Ω)
Climatic sequence	Dry heat, cyclic damp heat, cold, low pressure, cyclic damp heat	No damage or color-band loss; ΔR≤±(5%R+0.1Ω)
Room-temperature endurance	15–35°C, 1.5h on/0.5h off, 1000h	No damage; ΔR≤±(10%R+0.1Ω)
Steady damp heat	40±2°C, RH93±3%, 21 days	No damage; ΔR≤±(5%R+0.1Ω)
155°C endurance	155°C, 58.5% rated power, 1.5h on/0.5h off, 1000h	No damage; ΔR≤±(10%R+0.1Ω)

Ordering Information

RX21P-1W-30Ω-J-T52

Model / power / resistance / tolerance J±5%, K±10% / packaging code. T+number means taped color-band; L0+number means loose lead length. 1–3W may be taped, 4W and above supplied loose.