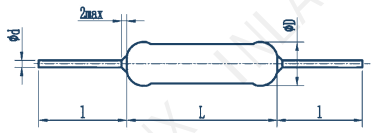
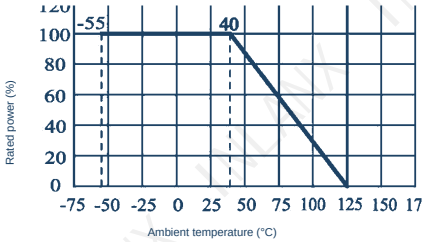
RY22 Metal Oxide Film Resistor

Outline Drawing



Derating Curve





Grades YG and J; QB available. Detail specification Q/RU 206-2014; YG additionally QZJ 84061; general specification GB/T 5729-2003.

Dimensions • mm

Original drawing marks 2max; dimensions in mm.

Power W	ΦD	L	Φd	Lead l
5	6.5 +0.5/-0.2	20 +1/-2	0.8±0.05	30±2

Electrical Specifications

Rated power 5W; resistance 4.7Ω–120kΩ.

Power W	Resistance Ω	Tolerance %	Limit V	Withstand V	TCR ×10□□/K
5	4.7–120k	±1, ±2, ±5	500	500	±500

Main Inspection Items

Item	Test method	Requirement
Solderability	(265±5)°C, (5±0.5)s	Free solder flow and lead wetting
Overload	min(2.5UR,2Umax), 5s	ΔR≤±(1%R+0.05Ω)
Lead strength	Pull 10N; bend 90° twice; twist 180° twice	ΔR≤±(1%R+0.05Ω)
Soldering heat	(350±10)°C, (3.5±0.5)s	ΔR≤±(1%R+0.05Ω)
Rapid temperature change	-55 to 125°C, 5 cycles	ΔR≤±(1%R+0.05Ω)
Bump	390m/s², 4000 times	ΔR≤±(1%R+0.05Ω)
Vibration	10–500Hz, min(0.75mm,98m/s²), 6h	ΔR≤±(1%R+0.05Ω)
Flame resistance	Flame method, 15s, 5 times	Afterflame ≤10s
Climatic sequence	GB/T 5729-2003 clause 4.23	ΔR≤±(5%R+0.1Ω), Ri≥100MΩ
Damp heat	40±2°C, RH93±3%, 21d	ΔR≤±(5%R+0.1Ω), Ri≥100MΩ
Endurance	40°C, UR, 1000h	ΔR≤±(10%R+0.2Ω), Ri≥1GΩ
Upper-category endurance	125°C, 1000h	ΔR≤±(5%R+0.1Ω), Ri≥1GΩ
Temperature rise	GB/T 5729-2003 clause 4.14	≤240°C

Ordering Information

RY22-5W-10Ω-G

RY22 / power 5W / nominal resistance / tolerance code F±1%, G±2%, J±5%.