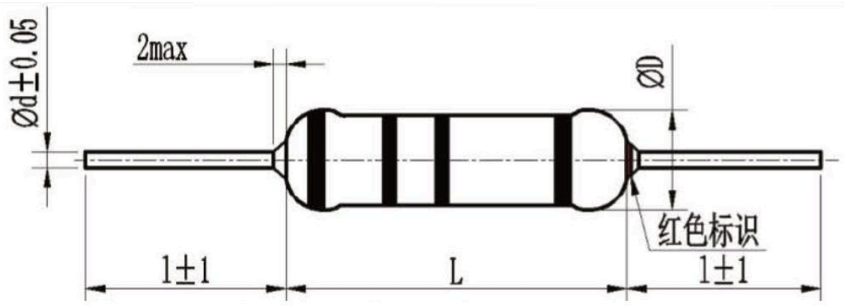
RI41 High Ohm Glass Glaze Film Resistors

Outline Drawing



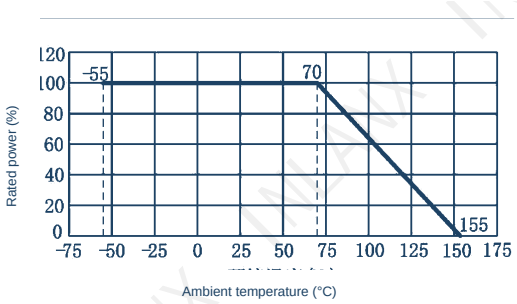


YG and J quality grades; QB available. Detail specification Q/RU 277-2004, YG grade additionally QZJ 84061; generic specification GB/T 5729-2003. Yellow marking indicates ±5% resistance tolerance.

Outline Dimensions • mm

Power W	L	l	ΦD	Φd
0.5	6.4±0.6	27	2.5±0.4	0.6
1	9.6±0.9	29	3.8±0.5	0.7
2	12.9±1.1	27	4.4±0.6	0.8
3	15.9±1.1	27	5.9±0.6	0.8
5	24.7±0.8	33	8.4±0.6	0.8

Derating Curve



Electrical Specifications

Power W	Resistance	Tolerance	Limit V	Withstand V	TCR ×10^-6/K
0.5	220 Ω~100 MΩ	±1%, ±2%, ±5%, ±10%	1000	500	±350
1	220 Ω~100 MΩ	±1%, ±2%, ±5%, ±10%	1500	500	±350
2	220 Ω~100 MΩ	±1%, ±2%, ±5%, ±10%	2000	700	±350
3	220 Ω~100 MΩ	±1%, ±2%, ±5%, ±10%	2500	700	±350
5	220 Ω~100 MΩ	±1%, ±2%, ±5%, ±10%	3000	800	±350

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Main Inspection Items

Item	Requirement	Test method
Voltage withstand	No breakdown or flashover	V-block, 60±5 s, voltage per table
Solderability	Good solder flow and wetting	(235±5)°C, (2±0.5)s
Overload	ΔR≤±(1%R+0.05Ω)	min(2.5UR,2Umax), 5 s
Lead strength	ΔR≤±(1%R+0.05Ω)	Pull 10 N; bend twice; twist 180° twice
Vibration	ΔR≤±(1%R+0.05Ω)	10–500 Hz, min(0.75 mm, 98 m/s²), 6 h
Soldering-heat resistance	ΔR≤±(1%R+0.05Ω)	(350±10)°C, (3.5±0.5)s
Rapid temperature change	ΔR≤±(1%R+0.05Ω)	-55 to 155°C, 5 cycles
Damp heat, steady	ΔR≤±(2%R+0.1Ω)	(40±2)°C, RH(93±3)%, 240 h
Climatic sequence	ΔR≤±(1%R+0.05Ω)	High temp 155°C 16 h; cyclic damp heat, -55°C and 8.5 kPa
Electrical endurance	ΔR≤±(2%R+0.1Ω)	Room temp, min(1.2UR,Umax), 240 h
Upper-category endurance	ΔR≤±(2%R+0.1Ω)	U=0, 155°C, 1000 h
Flammability	After-flame time <10 s	Flame method, 15 s, 5 times
Surge test	ΔR≤±50%R	U=10 kV (0.5 W ≤1 MΩ; 1 W ≤1 MΩ, 5 kV), 5 s cycle, 50 times

Ordering Information

RI41-0.5W-220Ω-J

Model / Power / Nominal resistance / F±1%, G±2%, J±5%, K±10%.