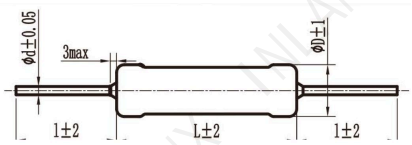
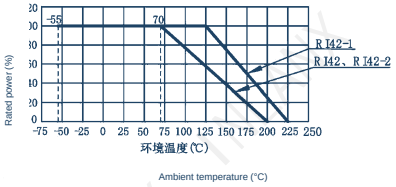
RI42 / RI42-1 / RI42-2 High Voltage Glass Glaze Film Resistors

Outline Drawing



Derating Curve





YG and J quality grades; QB available. Detail specification Q/RU 196-2015; YG grade additionally QZJ 84061. Generic specification GB/T 5729-2003. RI42, RI42-1 and RI42-2 are listed together as in the source.

Outline Dimensions • mm

Model	Power W	L	l	ΦD	Φd
RI42	5	40	30	9	1
RI42	10	52	30	9	1
RI42	12	77	30	9	1
RI42	15	102	30	12.5	1
RI42	20	148	30	12.5	1
RI42-1	5	52	50	9	1
RI42-1	10	127	38	9	1
RI42-1	20	153.7	38	8.2	1
RI42-2	12	102	30	9	1
RI42-2	15	127	30	9	1

Electrical Specifications

Tolerance: 10 kΩ–100 MΩ: ±0.5%, ±1%, ±2%, ±5%; >100–200 MΩ: ±1%, ±2%, ±5%; >200–500 MΩ: ±2%, ±5%; >500 MΩ–1 GΩ: ±5%.

Model	Power W	Resistance	Element limit V	Withstand	TCR ×10^-6/K
RI42	5	10 kΩ~1 GΩ	8k	1 kV	±100, ±200
RI42	10	10 kΩ~1 GΩ	15k	1 kV	±100, ±200
RI42	12	10 kΩ~1 GΩ	15k	1 kV	±100, ±200
RI42	15	10 kΩ~1 GΩ	20k	1 kV	±100, ±200
RI42	20	10 kΩ~1 GΩ	30k	1 kV	±100, ±200
RI42-1	5	10 kΩ~1 GΩ	15k	1 kV	±100, ±200
RI42-1	10	10 kΩ~1 GΩ	25k	1 kV	±100, ±200
RI42-1	20	10 kΩ~1 GΩ	30k	1 kV	±100, ±200
RI42-2	12	10 kΩ~1 GΩ	20k	1 kV	±100, ±200
RI42-2	15	10 kΩ~1 GΩ	25k	1 kV	±100, ±200

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Main Inspection Items

Item	Requirement	Test method
Overload	ΔR≤±(0.5%R+0.05Ω)	min(2.5UR,2Umax), (5±0.5)s
Soldering-heat resistance	ΔR≤±(1%R+0.1Ω)	(350±10)°C, (3.5±0.5)s
Rapid temperature change	ΔR≤±(1%R+0.1Ω)	RI42-1: -55 to 225°C; RI42/RI42-2: -55 to 200°C; 5 cycles each
Damp heat, steady	ΔR≤±(2%R+0.1Ω)	(40±2)°C, RH90–95%, 56 d
Climatic sequence	ΔR≤±(2%R+0.1Ω)	High temp RI42-1 225°C, others 200°C for 16 h; cyclic damp heat, -55°C, 8.5 kPa
Electrical endurance	ΔR≤±(5%R+0.1Ω)	RI42-1: min(1.1UR,Umax); others min(1.2UR,Umax); 1000 h
Upper-category endurance	ΔR≤±(2%R+0.1Ω)	U=0; RI42-1 225°C, others 200°C; 1000 h

Ordering Information

RI42-5W-10kΩ-J

Model RI42, RI42-1 or RI42-2 / Power / Nominal resistance / F±1%, G±2%, J±5%; high-resistance tolerance follows the table above.