

Ri40 Metal Glazed Resistors

Power Rating: 0.25W-5W

Resistance Value: 10Ω-300MΩ

Resistance Tolerance: ±1%, ±2%, ±5%, ±10%



● Features:

- 1.High resistance Value, small size, endure high temperature, high voltage, good performance in enduring moisture, and good overload capability.
- 2.Large ration power,Withstand impulse surge.
- 3.Operating ambient temperature:-55℃ to +125℃.
- 4.Surafce is nonflammable, the normal size coats brick red and small size coating is gray white, that add a yellow ring at the behind of the precision color rings to distinguish the resistors type
- 5.Power: 1/4W, 1/2WS, 1/2W, 1WS, 1W, 2WS, 2W, 3WS, 5W
- 6.Conforms to the ROHS standard and the LEAD-FREE non-lead standard.
- 7.Delivery:7-10days

● How to order

RI40	1W	1MΩ	F
①	②	③	④

- ① Type: Ri40
- ② Rated Power(W): 0.25W-5W
- ③ Resistance Value(Ω):10Ω-300MΩ
- ④ Tolerance(%):±1%,±2%,±5%,±10%

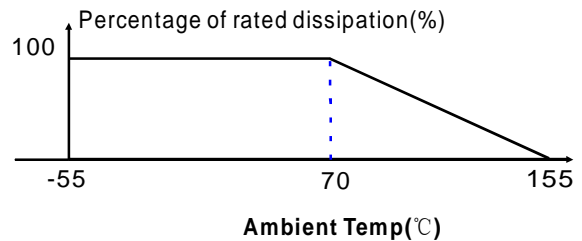
● **Dimensions**



Power Rating	Size (mm)			
	L±1	D±0.5	d±0.05	L1
0.25W	7	2.4	0.6	26±2
0.5W	9.3	3.4		
1W	12.5	4.2	0.8	
2W	15	5.8		
3W	16.5	6.9		
5W	24	8.3		
10-50W	~	~		

- A. Ceramic Core
- B. Glaze Film
- C. Iron Cap
- D. Silicon Resin Coating
- E. Color Ring
- F. Tinned Copper Lead Wire

● **Derating Curve**



● **Main Parameter**

Power Rating	Resistance (Ω)	Tolerance	Temp. Coefficient	Working V (V)	Owerload.V (V)	Voltage With standing(V)
0.25W	10-1000M	±1%(F)	±100	500	700	500
0.5W				1000	1500	600
1W				1500	2500	800
2W		±5%(J)	±200	2000	3000	10000
3W				2500	4000	
5W				3000	5000	
10-50W				~	~	

We can do the resistors following customer special requirement.

● Performance Specifications

Main function	Inspection Method	Function Requirement
Voltage proof	Wrapping foil method, applied voltage see above table, 1min±5S	no breakdown or flashover
Short-time overload	2.5×rated voltage or Max.overload voltage for 5seconds	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
Solderability	Immerge into the 260±10°C tin stove for 2-3seconds	The soldering area is over 90%
Robustness termination	Tensile: 10N、10±1S Bending: 2×90° Torsion: 2×180°	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
Resistance to soldering heat	Immerge into the 260±10°C tin stove for 10-11seconds	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
Rapid change temperature	-55±3°C、30min; 155±3°C、30min 5cycles	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
Vibration	10Hz~500Hz、0.75mm or 98m/S ² 、6h	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
Insulation resistor	500±50V、1min	Insulation resistance ≥ 1GΩ
Pulse overload	At 2.5×rated voltage or Max.pulse overload voltage(get the lower)cycle 1000±200 times(1 second on,25seconds off).	$\Delta R \leq \pm (2\%R + 0.1\Omega)$
Temperature coefficient	Room temperature ±100°C, and keep on 30-40min	TCR ≤ ±200PPM/°C
Endurance	70±2°C、1000h, rated DC voltage.	$\Delta R \leq \pm (5\%R + 0.1\Omega)$
Climatic sequence	Dry heat, Damp-heat(the first cycle), cold, Low air pressure, Damp-heat(remaining cycles), Direct current load	$\Delta R \leq \pm (5\%R + 0.1\Omega)$
Unexpected overload	At 16,25×rated voltage ,keep on 5±0.5min	net-shaped tube does not catch fire
Steady damp-heat	40±2°C ,90%-95% RH,56days	$\Delta R \leq \pm (5\%R + 0.1\Omega)$
Endurance upper category temperature	Max.155±2°C、1000h	$\Delta R \leq \pm (5\%R + 0.1\Omega)$