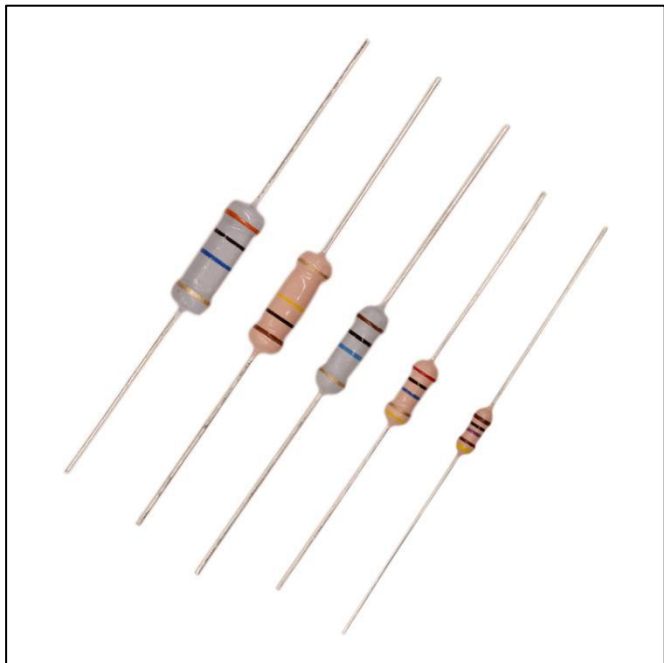


Cylindrical Color Ring Glass Glaze High Voltage Resistor

HVR40 Glass Glaze Thick Film High Voltage Resistors



1, Silicone resin package, can be used in air, high pressure oil, epoxy resin, the resistance error value provides the following four options: $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 5\%$.

2, Power range, 0.25W~5W, with high voltage resistance, pulse resistance, high stability, moisture resistance.

3, The substrate is made of high-quality ceramics (Al_2O_3) with more than 95%, and the resistive film layer is made of noble metal ruthenium, palladium and other components, which have good thermal conductivity and stable electrical properties.

Applicable scope

It is suitable for circuits with high voltage, pulse and surge, and is widely used, such as high-voltage power equipment, high-voltage power supply, electrostatic equipment, spraying equipment, medical CT&X-ray machine, high-voltage resistance container, vacuum equipment, voltage divider circuit, high-voltage test equipment, high-voltage instruments, etc.

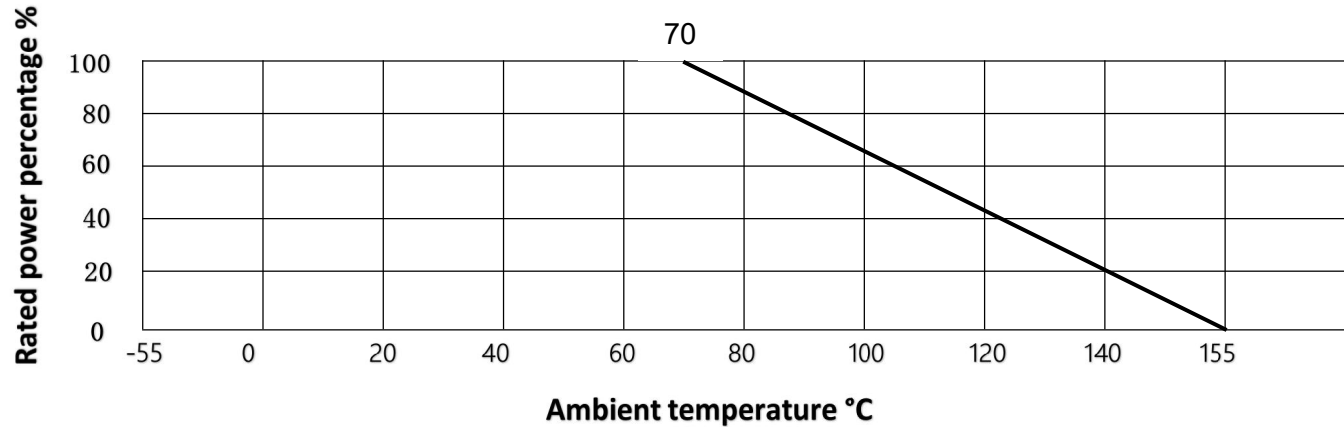
Performance Parameters

Features	Parameters	Test conditions
Withstand voltage	There should be no breakdown or arcing phenomenon	Foil wrapping method, see specifications for applied voltage, 1min
overload	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	2.5times the rated voltage ($\leq$ maximum overload voltage), 5S
Weldability	The area of tin dip is not less than 90%	$260 \pm 10^\circ\text{C}$ 、 $2 \pm 0.5\text{S}$
Terminal strength	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	pull: 10N、 $10 \pm 1\text{S}$ bending: $2 \times 90^\circ$ torsion: $2 \times 180^\circ$
Resistant to soldering heat	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	$260 \pm 10^\circ\text{C}$ $10 \pm 1\text{S}$
rapid changes in temperature	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	$-55 \pm 3^\circ\text{C}$ 、30min; $155 \pm 3^\circ\text{C}$ 、30min 5 times Cyclic
vibration	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	10Hz~500Hz、0.75mm或98m/S ² 、6h
Insulation resistance	Insulation resistance value $\geq 1\text{G}\Omega$	$500 \pm 50\text{V}$ 、1min
intermittent overload	$\Delta R \leq \pm (2\%R + 0.1\Omega)$	2.5 times rated voltage through 1S、broken 25S 1000次
temperature	$\text{TCR} \leq \pm 200\text{PPM}/^\circ\text{C}$	above room temperature 100°C 、constant

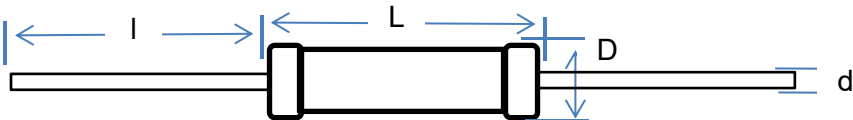
Cylindrical Color Ring Glass Glaze High Voltage Resistor

coefficient of resistance		temperature 30~40min
Durability	$\Delta R \leq \pm (5\%R + 0.1\Omega)$	70 $\pm$ 2 $^{\circ}$ C、1000h, Rated DC voltage.
climate sequence	$\Delta R \leq \pm (5\%R + 0.1\Omega)$	Dry heat, cold, low pressure, circulating damp heat, DC load
accidental overload	The gauze cylinder should not burn	16、25 times the rated power and voltage, Continuous 5 $\pm$ 0.5min; or until the resistor is open circuited;
steady-state damp heat	$\Delta R \leq \pm (5\%R + 0.1\Omega)$	40 $\pm$ 2 $^{\circ}$ C、90~95%RH、56 days
Upper Category Temperature Durability	$\Delta R \leq \pm (5\%R + 0.1\Omega)$	155 $\pm$ 2 $^{\circ}$ C、1000h

Rated power or voltage/temperature variation correlation curve



Specifications



Model Number HVR40	Power	Withstand voltage	Maximum operating voltage[KV]	The highest overload voltage[KV]	Optional accuracy range[%]	Dimension (mm)			
						L $\pm$ 2	D $\pm$ 1	I $\pm$ 0.05	d
0603	1/4W	500	500	700	$\pm$ 1%(F) $\pm$ 2%(G) $\pm$ 5%(J) $\pm$ 10%(K)	6.0	2.4	26 $\pm$ 2	0.55~0.6
0903	1/2W	600	1000	1500		9.0	3.0		0.55~0.6
1204	1W	800	1500	2500		12	4.0		0.75~0.8
1605	2W	800	2000	3000		16	5.0		0.75~0.8
1706	3W	1000	2500	4000		17	6.0		0.75~0.8
2408	5W	1000	3000	5000		24	8.0		0.75~0.8

1.Various sizes, specifications, and resistance values can be customized.
2.Power rating will be affected by operating voltage.

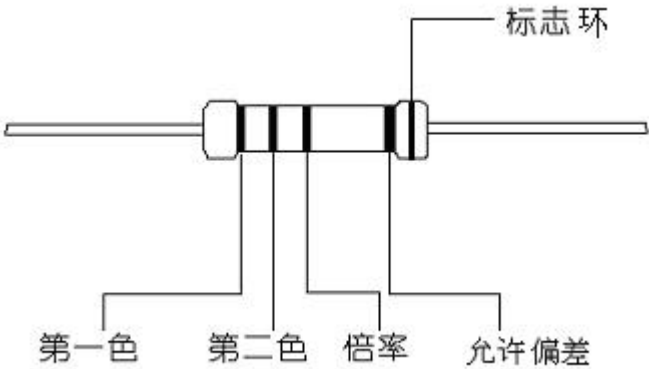
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一、Logo Description:

This resistor adopts the color code method, the basic color code of the color code is as follows:

Color	digital one	digit two	Magnification	Allowable deviation	Deviation code
Black	0	0	10 ⁰		
Brown	1	1	10 ¹	±1%	F
Red	2	2	10 ²	±2%	G
Orange	3	3	10 ³		
Yellow	4	4	10 ⁴		
Green	5	5	10 ⁵	±0.5%	D
Blue	6	6	10 ⁶		
purple	7	7	10 ⁷		
Ash	8	8	10 ⁸		
White	9	9	10 ⁹		
Gold			10 ⁻¹	±5%	J
Silver			10 ⁻²	±10%	K
Colorless				±20%	M

二、 This resistor standard product adopts the four-band color-coding method
As shown :



三、Packaging Quantity:

Model Number	Rated power	Packaging Quantity (only/box)	Packing quantity (Only / Crate)	Remark
RI40	0.25W	2000/4000	40000	T52 Taping
	0.5W	1000/2000	20000	in bulk/T52 Taping
	1W	1000/2000	20000	in bulk/Taping
	2W	500/1000	10000	in bulk/Taping
	3W	500	5000	in bulk/Taping
	5W	250	2500	in bulk