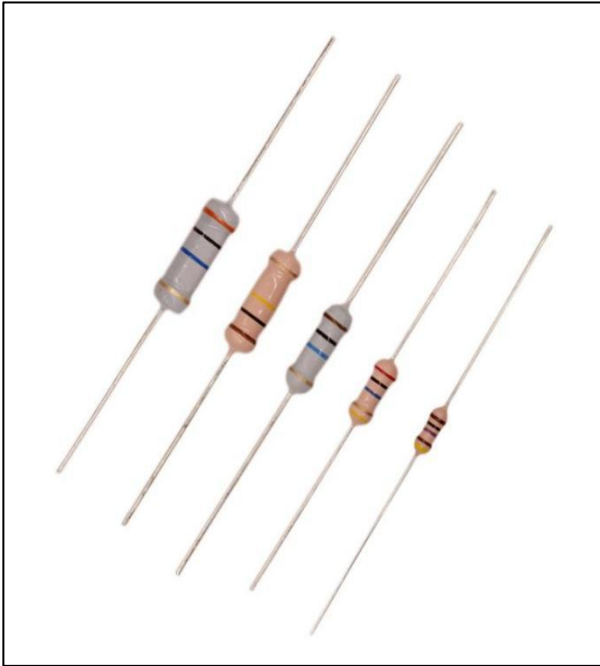




HVR40 玻璃釉厚膜高压电阻器

HVR40 Glass Glaze Thick Film High Voltage Resistors

1, 硅树脂封装, 可在空气、高压油、环氧树脂中使用, 电阻误差值提供以下四种选择: $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 5\%$ 。

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, 功率范围, 0.25W~5W, 具有耐高压、耐脉冲、高稳定性、耐潮湿。
Power range, 0.25W ~ 5W, with high voltage resistance, pulse resistance, high stability, and moisture resistance.

3, 基体采用 95%以上的高品质陶瓷 (Al_2O_3), 电阻膜层采用贵金属钌、钯等成分浆料, 导热好, 电性能稳定。

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.

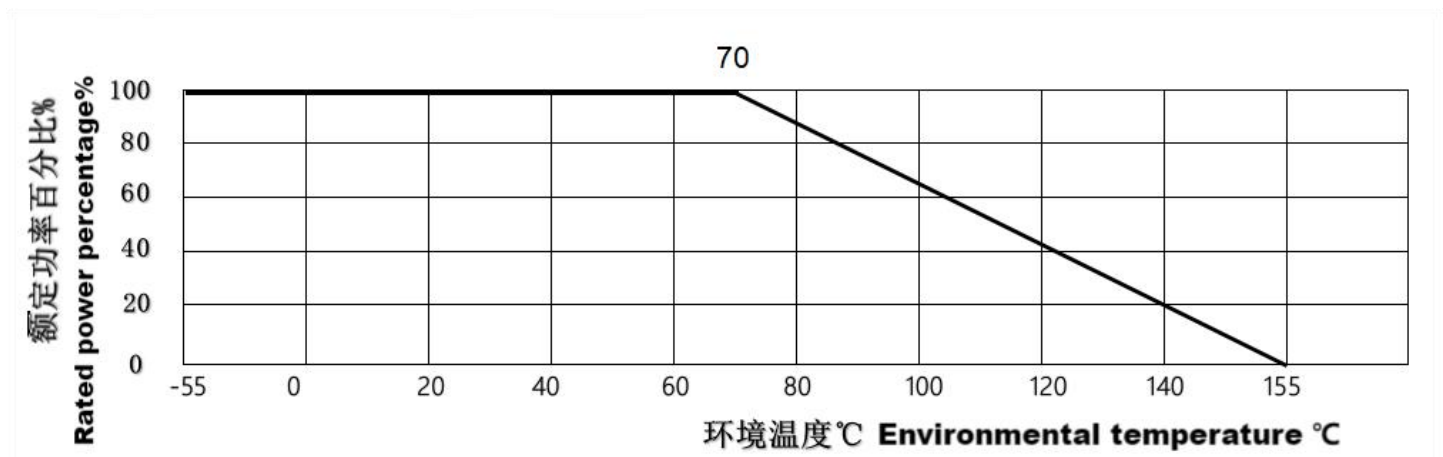
适用范围 Applicable scope

有高压和脉冲、浪涌的电路中都适用, 使用场合相当广泛, 如高压电力设备、高压电源、静电设备、喷涂设备、医疗 CT&X 光机、高压阻容器、真空设备、分压电路、高压测试设备、高压仪器仪表等。

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.

额定功率或电压/温度变化相关曲线

Rated power or voltage/temperature variation related curve



性能指标 Performance Parameters

特性 Features	参数 Parameters	试验条件 Test conditions
耐电压 Withstand voltage	应无击穿或飞弧现象 There should be no breakdown or arcing phenomenon	包箔法, 施加电压见规格参数, 1min Foil wrapping method, see specifications for applied voltage, 1min
过载 overload	$\Delta R \leq \pm (1\%R + 0.05 \Omega)$	2.5 倍额定电压 ($\leq$ 最高过负荷电压), 5S 2.5 times the rated voltage ($\leq$ maximum overload voltage), 5S
可焊性 Weldability	沾锡面积不小于 90% The area of tin dip is not less than 90%	$260 \pm 10^{\circ}\text{C}$ 、 $2 \pm 0.5\text{S}$
引出端强度 Terminal strength	$\Delta R \leq \pm (1\%R + 0.05 \Omega)$	拉力: 10N 、 $10 \pm 1\text{S}$ pull: 10N 、 $10 \pm 1\text{S}$ 弯曲: $2 \times 90^{\circ}$ bending: 2×900 扭转: $2 \times 180^{\circ}$ torsion: 2×1800
耐焊接热 Resistant to soldering heat	$\Delta R \leq \pm (1\%R + 0.05 \Omega)$	$260 \pm 10^{\circ}\text{C}$ $10 \pm 1\text{S}$
温度快速变化 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 次循环 (5 times Cyclic)
振动 vibration	$\Delta R \leq \pm (1\%R + 0.05 \Omega)$	$10\text{Hz} \sim 500\text{Hz}$ 、 0.75mm 或 98m/S^2 、 6h
绝缘电阻 Insulation resistance	绝缘阻值 $\geq 1\text{G} \Omega$ Insulation resistance value $\geq 1\text{G} \Omega$	$500 \pm 50\text{V}$ 、 1min
断续过负荷 intermittent overload	$\Delta R \leq \pm (2\%R + 0.1 \Omega)$	2.5 倍额定电压 通 1S、断 25S 1000 次 2.5 times rated voltage through 1S、broken 25S 1000 times
电阻温度系数 temperature coefficient	$\text{TCR} \leq \pm 200\text{PPM}/^{\circ}\text{C}$	高于室温 100°C 、恒温 $30 \sim 40\text{min}$ above room temperature 100°C 、constant temperature $30 \sim 40\text{min}$
耐久性 Durability	$\Delta R \leq \pm (5\%R + 0.1 \Omega)$	$70 \pm 2^{\circ}\text{C}$ 、 1000h ，额定直流电压 $70 \pm 2^{\circ}\text{C}$ 、 1000h ，Rated DC voltage.
气候顺序 Climate sequence	$\Delta R \leq \pm (5\%R + 0.1 \Omega)$	干热、寒冷、低气压、循环湿热、直流负荷 Dry heat, cold, low pressure, circulating damp heat, DC load
意外过载 Accidental overload	纱网圆筒不应燃烧 The gauze cylinder should not burn	16、25 倍额定功率电压，持续 $5 \pm 0.5\text{min}$ ； 或电阻器开路时为止； 16、25 times the rated power and voltage，Continuous $5 \pm 0.5\text{min}$ ； or until the resistor is open circuited；
稳态湿热 steady-state damp heat	$\Delta R \leq \pm (5\%R + 0.1 \Omega)$	$40 \pm 2^{\circ}\text{C}$ 、 $90 \sim 95\% \text{RH}$ 、56 天 $40 \pm 2^{\circ}\text{C}$ 、 $90 \sim 95\% \text{RH}$ 、56 days
上限类别温度耐久性 Upper Category Temperature Durability	$\Delta R \leq \pm (5\%R + 0.1 \Omega)$	$155 \pm 2^{\circ}\text{C}$ 、 1000h

规格参数 Specification parameter

型号 model	功率 Power	耐电压 Withstand voltage	最高使用电压 Maximum operating voltage[V]	最高过负荷电 The highest overload voltage[V]	封装颜色 Package color	可选精度范围 Optional accuracy range[%]	尺寸 Dimension (mm)				
							L±2	D±1	I±0.05	d	
RI40	1/4W	500	500	700	粉色 pink	±1%(F) ±2%(G) ±5%(J) ±10%(K)	6.0	2.4	26±2		0.55~0.6
	1/2W	600	1000	1500	粉色 pink		9.0	3.0			0.55~0.6
	1WS	700	1200	2000	粉色 pink		10	3.5			0.7~0.8
	1W	800	1500	2500	灰色 grey		12	4.0			0.75~0.8
	2W	800	2000	3000	粉色 pink		16	5.0			0.75~0.8
	3W	1000	2500	4000	灰色 grey		17	6.0			0.75~0.8
	5W	1000	3000	5000	灰色 grey		24	8.0			0.75~0.8

- 1.各种尺寸，规格，电阻值可接受定制。Various sizes, specifications, and resistance values can be customized.
- 2.额定功率将受到工作电压的影响。Power rating will be affected by operating voltage.

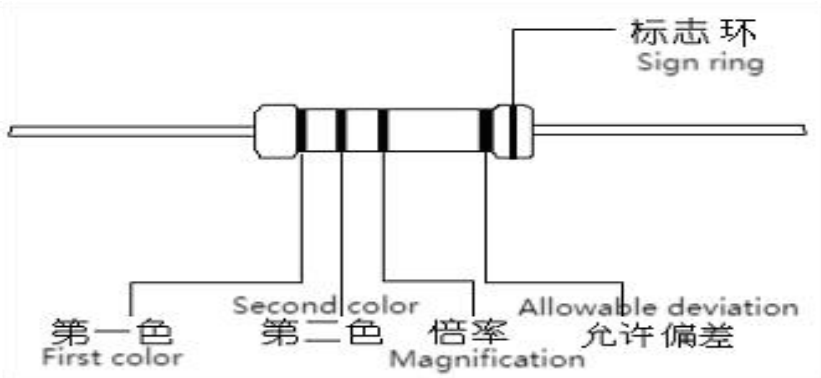
标志说明 Logo Description :

- 一、本电阻器采用色标法，色标的基本色码如下表：
- This resistor adopts the color code method, the basic color code of the color code is as follows

颜色 Color	数字一 digital one	数字二 digit two	倍率 Magnification	允许偏 Allowable deviation	偏差代码 Deviation code
黑 Black	0	0	10 ⁰		
棕 Brown	1	1	10 ¹	±1%	F
红 Red	2	2	10 ²	±2%	G
橙 Orange	3	3	10 ³		
黄 Yellow	4	4	10 ⁴		
绿 Green	5	5	10 ⁵	±0.5%	D
蓝 Blue	6	6	10 ⁶		
紫 purple	7	7	10 ⁷		
灰 grey	8	8	10 ⁸		
白 White	9	9	10 ⁹		
金 Gold			10 ⁻¹	±5%	J
银 Silver			10 ⁻²	±10%	K
无色 Colorless				±20%	M

- 二、本电阻器标准品采用四带色标法如图示：

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



三、包装数量 Packaging Quantity :

型号 Model Number	额定功率 Rated power	包装数量 (只/盒) Packaging Quantity (only/box)	包装数量 (只/箱) Packing quantity (Only / Crate)	备 注 Remark
RI40	0.25W	2000/4000	40000	T52 编带 T52 Taping
	0.5W	1000/2000	20000	散装/T52 编带 in bulk/T52 Taping
	1W	1000/2000	20000	散装/编带 in bulk/Taping
	2W	500/1000	10000	散装/编带 in bulk/Taping
	3W	500	5000	散装/编带 in bulk/Taping
	5W	250	2500	散装 in bulk

订购信息 ordering information

选型示例: RI40-1/2W-10M±5%T52 编带 Selection example: RI40-1/2W-10M±5%T52Taping				
RI40	1/2W	10M	±5%	T52
型号 Model Number	1/4W 1/2W 1WS 1W 2W 3W 5W	阻值 Resistance 10K2=10.2KΩ 1M=1MΩ 1G5=1.5GΩ	精度 Accuracy F:±1% J:±5% K:±10%	S:散装 S:in bulk T52 编带 T52Taping T63 编带 T63Taping