

HVR1 高压玻璃釉电阻器 High Voltage Glaze Resistors



本体颜色: Body Color

标准品: Standard (Red 红色)

标示: Marking

印字: Alphanumeric (5W~20W)

(根据客户要求提供相应标识)

(According to the customer request to provide corresponding identification)

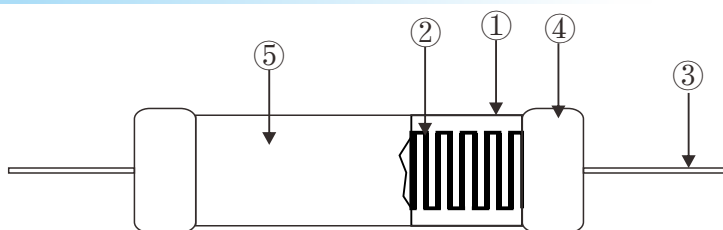
特性 Feature

- 无感设计
- 高精度
- 阻值范围宽
- 高耐压、高功率
- No Inductance
- Excellent Tolerance
- Wider resistance values
- High Voltage、High Power

应用 Application

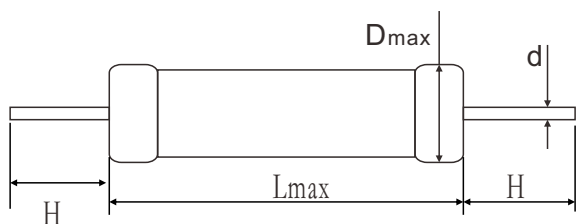
- 1、冲击电压发生器
 - 2、电弧炉阻尼, 能源研究
 - 3、脉冲调制器, 雷达脉冲电路
 - 4、电容器的消弧电路, 高压缓冲电路
 - 5、X-ray/头像设备和EMI/闪电抑制
- 1、Impulse voltage generator
 - 2、Electric-arc furnace damping,
 - 3、Pulse modulator, radar pulse circuit
 - 4、Arc suppression circuit of capacitor, high voltage buffer circuit
 - 5、X-ray/head portrait equipment and EMI/ lightning suppression

结构图 Construction



- ① 陶瓷基体 Ceramic core
- ② 玻璃釉质电阻膜层 Glazed resistive film
- ③ 引线 Lead
- ④ 铁帽 Iron cap
- ⑤ 保护膜 Protective coating

外形尺寸 Dimensions

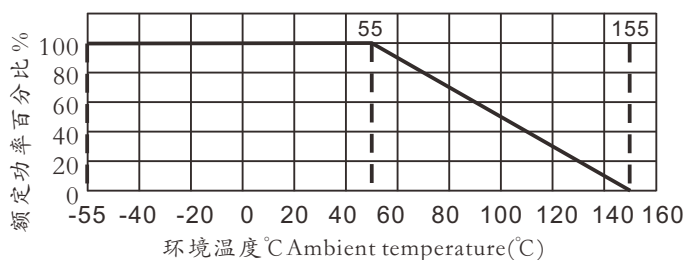


规格 Type	功率 Power	尺寸 Dimensions (mm)			
		Lmax	Dmax	H ± 3	d ± 0.1
HVR1	1W	11 ± 2	5 ± 1	30	0.8
HVR1	2W	16 ± 2	6 ± 1	30	0.8
HVR1	3W	24 ± 2	9 ± 1	30	0.8
HVR1	5W	30 ± 2	9 ± 1	30	1.0
HVR1	7W	50 ± 2	9 ± 1	30	1.0
HVR1	10W	65 ± 2	9 ± 1	30	1.0
HVR1	15W	100 ± 2	9 ± 1	30	1.0
HVR1	20W	147 ± 2	11 ± 1	30 或 10	1.0 或 M4

参考规格

JISC 5201-1

降功耗曲线 Derating Curve



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● 功率、阻值范围与耐电压 Power And Resistance etc

额定功率(W)	阻值范围(Ω)	温度系数 (PPM/ $^{\circ}\text{C}$)	最大工作 电压(KV)	使用温度	阻值公差
1W	1.0K-1000G	± 200	10	-55 $^{\circ}\text{C}$ ~ +70 $^{\circ}\text{C}$	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)
2W			10		
3W			10		
5W			10		
7W			15		
10W			15		
15W			25		
20W			30		

● 无电感性能特点

HVR采用无感设计，独特的玻璃釉膜按照类似"长城"图案分布,这种高效率的无电感量设计,不会降低任何电阻性能优势，非常适合要求高频率的产品应用。电感量在0.1 μH ~1 μH

HVR use non-inductive design, special glazed film, distribute itself like the Great Wall, this high efficiency and non-inductive design will not cut any advantages of the resistor's function. It is perfect for products which request high frequency. Inductor value keeps at 0.1 μH ~1 μH



● 性能 Performance

试验项目 Test Item	性能要求 Specifications (JISC 5201-1)
阻值精度 Resistance Tolerance	$\pm 1\%$ $\pm 5\%$ $\pm 10\%$ (如有特殊需要可提供0.5%) (tolerance to 0.5% on special order)
温度系数 Temperature Coefficient	100ppm/ $^{\circ}\text{C}$ (测试区间: +25 $^{\circ}\text{C}$ ~+125 $^{\circ}\text{C}$; +25 $^{\circ}\text{C}$ ~-55 $^{\circ}\text{C}$) 100ppm/ $^{\circ}\text{C}$ (Referenced to +25 $^{\circ}\text{C}$, ΔR taken at +125 $^{\circ}\text{C}$ and -55 $^{\circ}\text{C}$)
寿命 Load life	+125 $^{\circ}\text{C}$, 1000小时 $\Delta R \leq 0.4\%$
绝缘层电阻 Insulate resistance	$\geq 1000\text{M}\Omega$
涂覆层 Encapsulation	高温硅树脂 High temperature silicone conformal
过载 Overload	2.5额定功率 (≤ 1.5 Max. operating voltage) 5s $\Delta R \leq 0.5\%$
热冲击 Thermal shock	$\Delta R \leq 0.25\%$
防潮性能 Moisture resistance	$\Delta R \leq 0.4\%$
可焊引线 Solderable Lead	30 $\pm$ 3mm

● 料号编号 Ordering Information

例 example

HVR1	05	J	1K
型号 Type	额定功率 Rated Power	误差值 Tolerance	电阻值(Ω) Resistance
HVR1	01: 1W 05: 5W 07: 7W 10: 10W	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)	1K Ω 5K Ω 10K Ω 100K Ω