

HVR 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 (20W~1000W)

(根据客户要求提供相应标识)

(According to the customer request to provide corresponding identification)

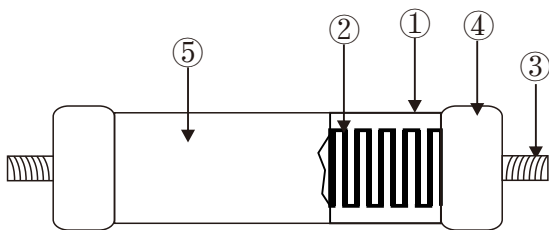
● 特性 Feature

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

● 应用 Application

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

● 结构图 Construction

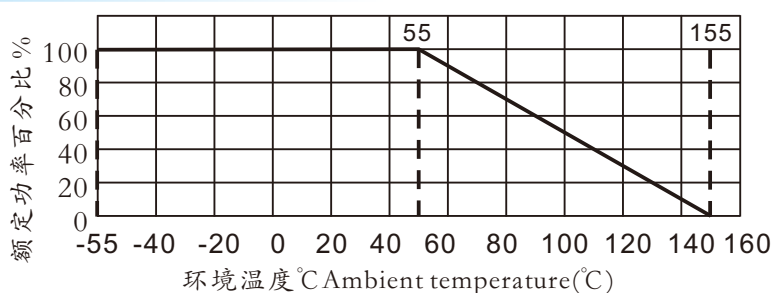


- ① 陶瓷基体 Ceramic core
- ② 玻璃釉质电阻膜层 Glazed resistive film
- ③ 螺杆 screw
- ④ 铁帽 Iron cap
- ⑤ 保护膜 Protective coating

● 参考规格 Reference Standards

JISC 5201-1

● 降功耗曲线 Derating Curve



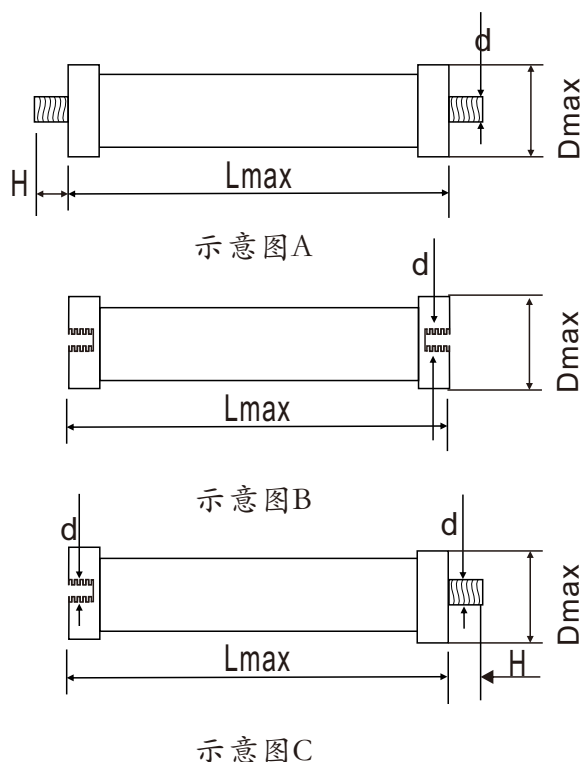
HVR 高压玻璃釉电阻器 High Voltage Glaze Resistors

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

额定功率 Rated Power(W)	阻值范围 Resistance Range (Ω)	温度系数 (PPM/ $^{\circ}\text{C}$)	最大工作 电压(KV)	使用温度	阻值公差
25W	1.0K-1000G	± 300	30	-55 $^{\circ}\text{C}$ ~ +70 $^{\circ}\text{C}$	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)
30W	1.0K-1000G	≤ 400	30		
50W	1.0K-1000G	≤ 400	30		
80W	1.0K-1000G	≤ 400	30		
100W	1.0K-1000G	≤ 400	30		
150W	1.0K-1000G	≤ 400	35		
200W	1.0K-1000G	≤ 400	35		
300W	1.0K-1000G	≤ 400	35		
400W	1.0K-1000G	≤ 400	35		
500W	1.0K-1000G	≤ 400	40		
600W	1.0K-1000G	≤ 400	50		
800W	1.0K-1000G	≤ 400	60		
1000W	1.0K-1000G	≤ 400	80		

● 外形尺寸 Dimensions

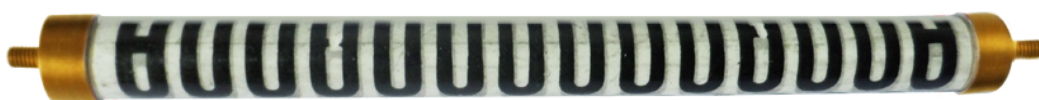
规格 Type	功率 Power	尺寸Dimensions(mm)			
		L	D	H ± 3	d ± 0.1
HVR25W	25W	116 ± 2	17 ± 1	10	M6
HVR30W	30W	116 ± 2	19 ± 1	10	M6
HVR50W	50W	116 ± 2	19 ± 1	10	M6
HVR80W	80W	116 ± 2	21 ± 1	10	M6
HVR100W	100W	130 ± 2	27 ± 1	10	M6
HVR150W	150W	160 ± 2	27 ± 1	10	M6
HVR200W	200W	210 ± 2	27 ± 1	10	M6
HVR300W	300W	260 ± 2	27 ± 1	10	M6
HVR400W	400W	310 ± 2	33 ± 1	10	M6
HVR500W	500W	480 ± 2	27 ± 1	10	M6
HVR600W	600W	520 ± 2	27 ± 1	10	M6
HVR800W	800W	620 ± 2	33 ± 1	10	M6
HVR1000W	1000W	920 ± 2	33 ± 1	10	M6



● 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/°C (测试区间: +25°C~+125°C; +25°C~-55°C) 100ppm/°C (Referenced to +25°C, ΔR taken at +125°C and -55°C)
寿命Load life	+125°C, 1000小时 $\Delta R \leq 0.4\%$
绝缘层电阻Insulate resistance	$\geq 1000M\Omega$
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	$\Delta R \leq 0.25\%$
耐潮性能Moisture resistance	$\Delta R \leq 0.4\%$
可焊引线Solderable Lead	30 $\pm$ 3mm

● 料号编号 Ordering Information

例 Example

HVR	20	J	100K	A
型号 Type	额定功率 Rated Power	误差值 Tolerance	电阻值(Ω) Resistance	示意图A 示意图B 示意图C
HVR	20:20W 100:100W 1000:1000W	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)	10K 100K	