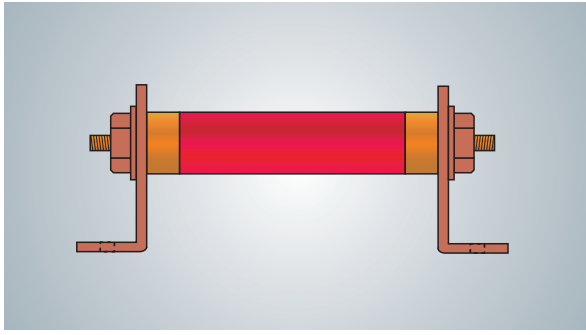
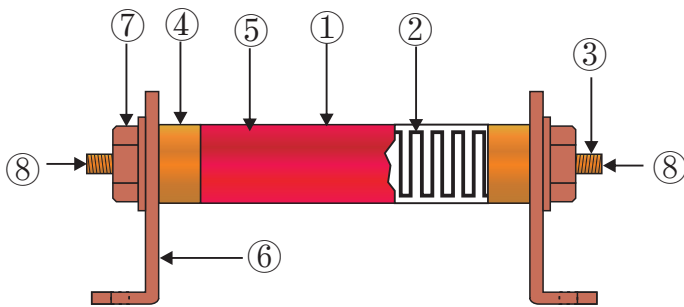


HVZ 高压玻璃釉电阻器 High Voltage Glaze Resistors



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)

● 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 铜帽 Copper cap
- ⑤ 保护膜 Protective coating
- ⑥ 环氧支架 Epoxy stents
- ⑦ 环氧螺母 Epoxy nut
- ⑧ 接线端 Terminal

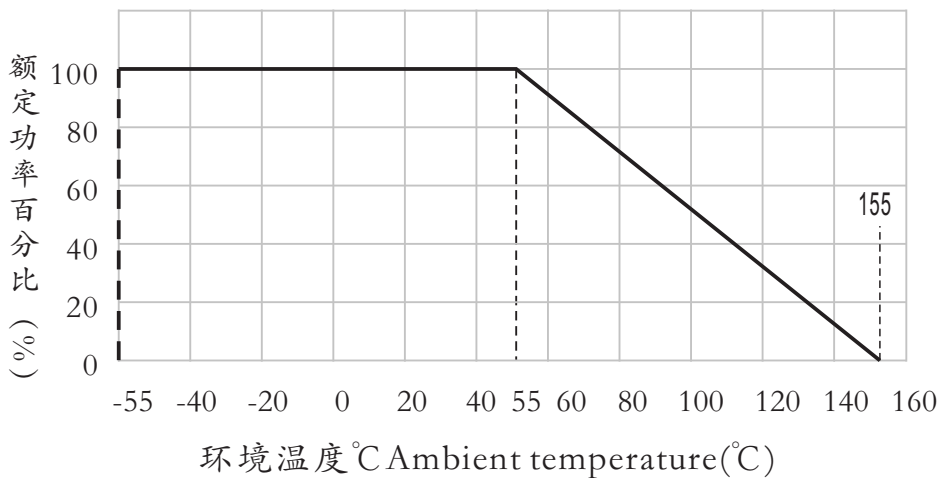
● 特性 Feature

- 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

- 1、冲击电压发生器
 - 2、电弧炉阻尼, 能源研究
 - 3、脉冲调制器, 雷达脉冲开成网络
 - 4、电容器的消弧电路, 高电压缓冲电路
 - 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 opens the network
 - 4、Arc suppression circuit of capacitor, high voltage buffer circuit
 - 5、X-ray/head portrait equipment and EMI/ lightning suppression

● 降功耗曲线 Derating Curve



● 参考规格 Reference Standards

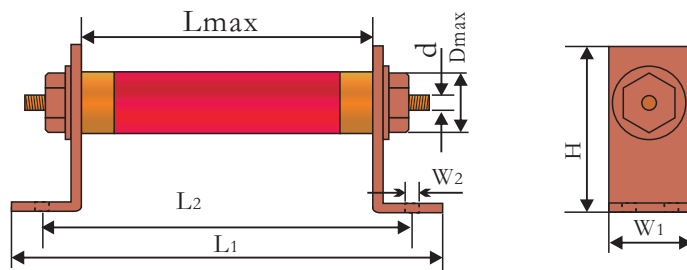
JIS C 5201-1

HVZ 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/ $^{\circ}$ C) | 最大工作 电压(KV) | 使用温度 | 阻值公差 |
|------------------------|--|-----------------------------|----------------|---|---|
| 20W | 1.0K-1000G | ± 300 | 30 | -55 $^{\circ}$ C ~ +70 $^{\circ}$ C | F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$) |
| 25W | 1.0K-1000G | ± 300 | 30 | | |
| 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



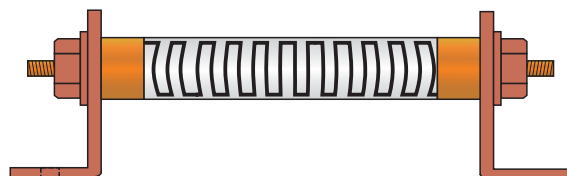
| 规格 Type | 功率 Power | 尺寸Dimensions(mm) | | | | | | | |
|------------|-------------|------------------|------------|-------------|-------------|-------------|------------|------------|------------|
| | | Lmax | Dmax | d ± 0.1 | L1 | L2 | H | W1 | W2 |
| HVZ20W | 20W | 147 ± 2 | 11 ± 1 | M6 | 167 ± 2 | 187 ± 2 | 40 ± 1 | 20 ± 1 | 10 ± 1 |
| HVZ25W | 25W | 116 ± 2 | 17 ± 1 | M6 | 156 ± 2 | 136 ± 2 | 50 ± 1 | 20 ± 1 | 10 ± 1 |
| HVZ30W | 30W | 116 ± 2 | 19 ± 1 | M6 | 156 ± 2 | 136 ± 2 | 50 ± 1 | 20 ± 1 | 10 ± 1 |
| HVZ50W | 50W | 116 ± 2 | 19 ± 1 | M6 | 156 ± 2 | 136 ± 2 | 50 ± 1 | 20 ± 1 | 10 ± 1 |
| HVZ80W | 80W | 116 ± 2 | 21 ± 1 | M6 | 156 ± 2 | 136 ± 2 | 50 ± 1 | 30 ± 1 | 10 ± 1 |
| HVZ100W | 100W | 130 ± 2 | 27 ± 1 | M6 | 170 ± 2 | 150 ± 2 | 60 ± 1 | 30 ± 1 | 10 ± 1 |
| HVZ150W | 150W | 160 ± 2 | 27 ± 1 | M6 | 200 ± 2 | 180 ± 2 | 60 ± 1 | 30 ± 1 | 10 ± 1 |
| HVZ200W | 200W | 210 ± 2 | 27 ± 1 | M6 | 250 ± 2 | 230 ± 2 | 60 ± 1 | 30 ± 1 | 10 ± 1 |
| HVZ300W | 300W | 260 ± 2 | 27 ± 1 | M6 | 310 ± 2 | 290 ± 2 | 60 ± 1 | 30 ± 1 | 10 ± 1 |
| HVZ400W | 400W | 310 ± 2 | 33 ± 1 | M6 | 350 ± 2 | 330 ± 2 | 65 ± 1 | 45 ± 1 | 15 ± 1 |
| HVZ500W | 500W | 480 ± 2 | 27 ± 1 | M6 | 530 ± 2 | 530 ± 2 | 60 ± 1 | 30 ± 1 | 10 ± 1 |
| HVZ600W | 600W | 520 ± 2 | 27 ± 1 | M6 | 560 ± 2 | 560 ± 2 | 60 ± 1 | 30 ± 1 | 10 ± 1 |
| HVZ800W | 800W | 620 ± 2 | 33 ± 1 | M6 | 660 ± 2 | 660 ± 2 | 65 ± 1 | 40 ± 1 | 10 ± 1 |
| HVZ1000W | 1000W | 920 ± 2 | 33 ± 1 | M6 | 980 ± 2 | 980 ± 2 | 65 ± 1 | 40 ± 1 | 10 ± 1 |

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

● 无电感性能特点

HVZ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 $0.1\mu\text{H}\sim 1\mu\text{H}$

HVZ use non-inductive design, special glazed film, distribute itself like the Great Wall pattern, 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 $0.1\mu\text{H}\sim 1\mu\text{H}$



● 性能Performance

| 试验项目 TEST ITEM | 性能要求 SPECIFICATIONS |
|---------------------------------|---|
| 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: $+25^{\circ}\text{C}\sim +125^{\circ}\text{C}$; $+25^{\circ}\text{C}\sim -55^{\circ}\text{C}$) 100ppm/ $^{\circ}\text{C}$ (Referenced to $+25^{\circ}\text{C}$, $R\Delta$ taken at $+125^{\circ}\text{C}$ and -55°C) |
| 寿命 Load life | $+125^{\circ}\text{C}$, 1000小时 $\Delta R \leq 0.5\%$ |
| 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 | $\Delta R \leq 0.25\%$ |
| 耐潮性能 Moisture resistance | $\Delta R \leq 0.4\%$ |
| 可焊引线 Solderable Lead | $30 \pm 3\text{mm}$ |

● 料号编号 ordering Information

例 Example

| HVZ | 20 | J | 100K0 | A |
|------------|---------------------------------|---|--|---|
| 型号 Type | 额定功率 Rated Power | 误差值 Tolerance | 电阻值 (Ω) Resistance | 特殊码 Special forming |
| | 20: 20W 50: 50W 100: 100W | F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$) | 100K0=100K Ω 1M0=1M Ω | A1配螺栓, 支架 A1With screw bracket A2不配螺栓, 无支架 A2Without screw bracket |