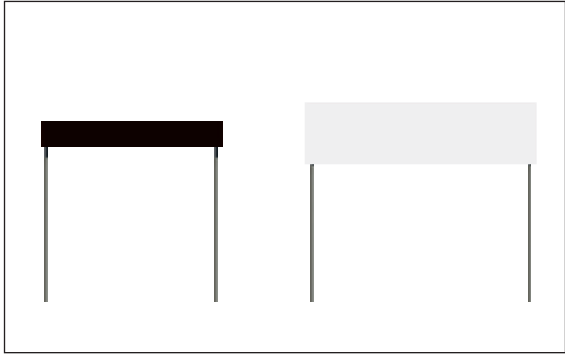


# HVU 高压电阻 HIGH VOLTAGE RESISTORS

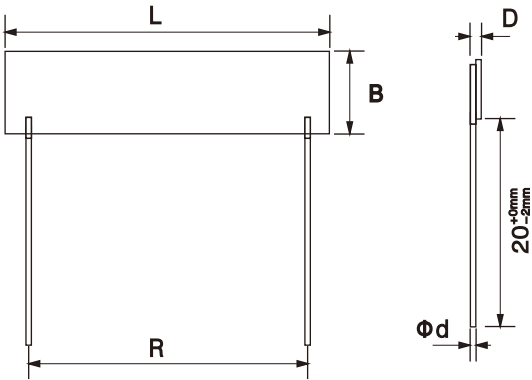


本体颜色: Body Color  
标准品: Standard  
标示: Marking  
文字: Alphanumeric(1W-3W)  
(根据客户要求提供相应标识)  
(According to the customer request to provide corresponding identification)

## 产品特点 Features

- 厚膜高压电阻 High voltage resistors in thick film
- 通过弯曲可改变引线跨距 Variable lead spacing by bending
- 阻值可达10TΩ Resistance values up to 10 Teraohm
- 低温度系数、低电压系数 Low values of TCR and VCR

## 外形尺寸 Dimensions



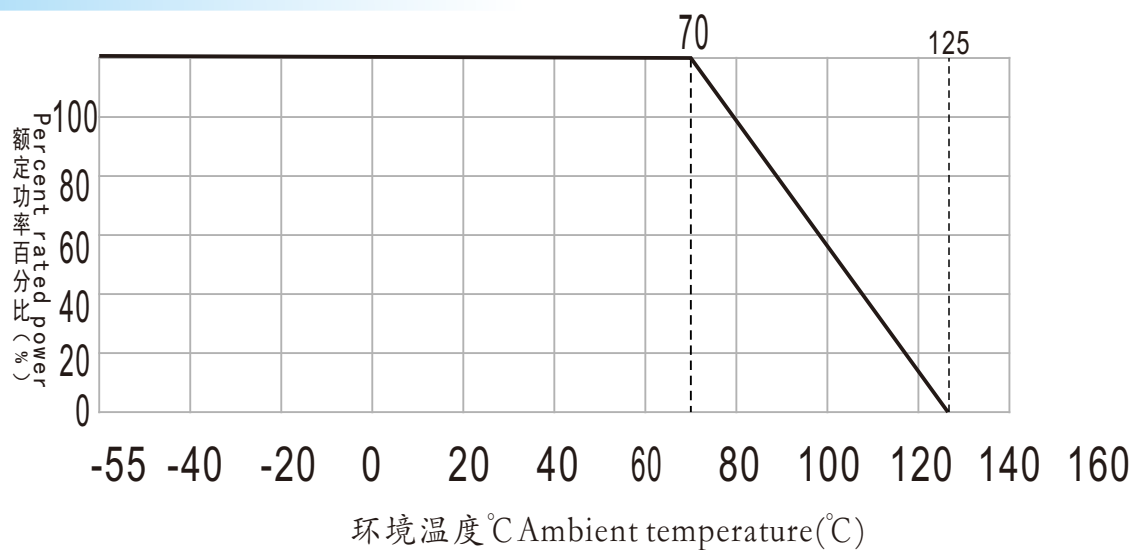
L=长度, B=宽度, D=厚度, d=引线直径 (mm)  
L=Length, B=Width, D=Thickness, d=wire diameter(in mm)  
R=标准引线间距 (通过弯曲可达到其他跨距)  
R=standard lead spacing(other spacing possible by bending)  
外形尺寸公差:  $\pm 0.5\text{mm}$   
Tolerance of dimensions:  $\pm 0.5\text{mm}$

| Type | Power(W)<br>@70° | Dimensions(mm) |      |        |      |             |
|------|------------------|----------------|------|--------|------|-------------|
|      |                  | L              | B    | D      | R    | d           |
| HVU  | 0.5W             | 3.2            | 2.5  | 0.9    | 2.0  | 0.40 ± 0.05 |
| HVU  | 1W               | 6.3            | 3.5  | 1.0    | 5.5  | 0.40 ± 0.05 |
| HVU  | 2W               | 1.05           | 5.1  | 1.0    | 9.5  | 0.40 ± 0.05 |
| HVU  | 1W               | 30.0           | 6.0  | 1.4    | 27.5 | 0.60 ± 0.05 |
| HVU  | 2W               | 40.0           | 6.0  | 1.4    | 37.8 | 0.60 ± 0.05 |
| HVU  | 3W               | 50.0           | 12.0 | 1.4    | 47.8 | 0.80 ± 0.05 |
| HVU  | 3W               | 38.0           | 15.0 | 3.0max | 35.8 | 0.80 ± 0.05 |

## 参考规格Reference Standards

IEC60115

## ● 降功耗曲线 Derating Curve



## ● 技术说明 Technical Specifications

| 型号<br>Type | 额定功率(w)<br>Rating Power(w) | 最大工作电压<br>Max. Working Voltage |           | 阻值范围/精度/温度系数/电压系数<br>Resistance Range/Tolerance/TCR (1) /VCR (2) |                                       |                                     |                                   |                                    |
|------------|----------------------------|--------------------------------|-----------|------------------------------------------------------------------|---------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
|            |                            | trimmed                        | untrimmed | 1M-100M                                                          | >100M-1G                              | >1G-100G                            | >100G-1T                          | >1T-10T                            |
| HVU        | 0.5W                       | 300V                           | 1000V     | 1/2/5/10%<br>TC/50/100<br><50ppm/V                               | 2/5/10/20%<br>TC/100/250<br><100ppm/V | 5/10/20%<br>TC/250/500<br><500ppm/V |                                   |                                    |
| HVU        | 1W                         | 1200V                          | 2500V     | 0.5-10%<br>TC/50/100<br><10ppm/V                                 | 1-20%<br>TC/50/100<br><25ppm/V        | 2-/20%<br>TC/100/250<br><100ppm/V   | 5-50%<br>TC/500/1000<br><50ppm/V  |                                    |
| HVU        | 2W                         | 4000V                          | 6000V     | 0.25-10%<br>TC/50/100<br><5ppm/V                                 | 0.5-20%<br>TC/25/50/100<br><10ppm/V   | 1-20%<br>TC/50/100<br><25ppm/V      | 5-30%<br>TC/250/500<br><250ppm/V  |                                    |
| HVU        | 1W                         | 10KV                           |           | 0.25-10%<br>TC/25/50/100<br><2ppm/V                              | 1-20%<br>TC/50/100/250<br><5ppm/V     | 5-30%<br>TC/250/500<br><20ppm/V     | 5-30%<br>TC/500/1000<br><100ppm/V |                                    |
| HVU        | 2W                         | 20KV                           |           | 0.25-10%<br>TC/25/50/100<br><1ppm/V                              | 1-20%<br>TC/50/100/250<br><2ppm/V     | 5-30%<br>TC/250/500<br><25ppm/V     | 5-30%<br>TC/500/1000<br><50ppm/V  |                                    |
| HVU        | 3W                         | 30KV                           |           | 0.25-10%<br>TC/25/50/100<br><1ppm/V                              | 0.5-20%<br>TC/25/50/100<br><1ppm/V    | 5-30%<br>TC/100/250<br><10ppm/V     | 5-30%<br>TC/250/500<br><25ppm/V   |                                    |
| HVU        | 3W                         | 30KV                           |           | 0.25-10%<br>TC/25/50/100<br><1ppm/V                              | 0.5-20%<br>TC/25/50/100<br><1ppm/V    | 5-30%<br>TC/100/250<br><10ppm/V     | 5-30%<br>TC/250/500<br><25ppm/V   | 10-30%<br>TC/500/1000<br><100ppm/V |

注：(1) 温度系数25/50:温度范围+25°C~+85°C

(1)TCR25/50:Temperature range+25°C~+85°C

(2) 电压系数在10V和100V之间测量

(2) VCR measured between 10V and 100V

更好的精度、温度系数和电压系数及其他外形尺寸或电压分流器可按要求和协议提供

Closed values of tolerance, TCR and VCR, other dimensions or voltage dividers on request and agreement

## 性能 Performance

| 试验项目<br>TEST ITEM                             | 性能要求<br>SPECIFICATIONS |      |
|-----------------------------------------------|------------------------|------|
| 温度范围<br>Temperature range                     | -55℃~+125℃             |      |
| 气候类型按IEC60068<br>Climatic category toIEC60068 | 55/125/56              |      |
| 湿度-/接触保护<br>Humidity-/contact protection      | 漆涂覆 Lacquer coating    |      |
| 长期稳定性<br>Long term stability                  | ≤10G                   | >10G |
| 高温贮存125℃/1000h<br>Storage125℃/1000h           | <1%                    | <2%  |
| 电大电压/1000h<br>Max. voltage/1000h              | <1%                    | <2%  |

## 料号编号 ordering Information

例 example

| HVU        | 3W                     | 100KO                  | J                | C2                                         | V1                                                     |
|------------|------------------------|------------------------|------------------|--------------------------------------------|--------------------------------------------------------|
| 型号<br>Type | 额定功率<br>Rated Power    | 电阻值 (Ω)<br>Resistance  | 误差值<br>Tolerance | 温度系数<br>TCR                                | VCR                                                    |
|            | 0.5W<br>1W<br>2W<br>3W | 100KO=100KΩ<br>1MO=1MΩ | F(±1%)<br>J(±5%) | C3:±25PPM/℃<br>C2:±50PPM/℃<br>C1:±100PPM/℃ | V1:±2PPM/V<br>V2:±5PPM/V<br>V3:±20PPM/V<br>V4:±50PPM/V |