HVD82U 厚膜无感高压分压电阻器
HVD82U Thick Film Non-inductive High Voltage Divider Resistor

产品简述（Product Profile)

采用 96% 含量的陶瓷基片，片式 (厚膜，无感设计) 高压分压电阻器， HVD82U 系列是一个三引出端的片式分压网络，其分压比为 (R1+R2)/R2 。 (分压比可按客户要求定做，如 1000:1 、 100:1 等) 。

广泛使用于行波管电源、雷达系统、 X 射线系统、分析设备和高分辨率 CRT 显示器等。

Using ceramic substrates with a 96% content, with a chip style (thick film, non inductive design) high voltage divider,The HVD82U series resistor is a three terminal chip voltage divider network with a voltage ratio ofFor (R1+R2)/R2. The pressure ratio can be customized according to customer requirements, such as 1000:1 , 100:1 Etc.

Widely used in traveling wave tube power supplies, radar systems, X-ray systems, analytical equipment, and high-resolution CRT displays.

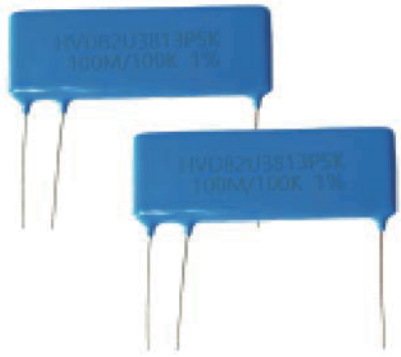
产品特点（Product Features)

1. 额定功率范围： 0.3W~5.5W
2. 耐压范围: AC 5KV~AC 25KV 50Hz/5s
3. 精度范围： ± 1% ± 5%

1.Rated power range: 0.3W~5.5W

2.Dielectric strength: AC 5KV~AC 25KV 50Hz/5s

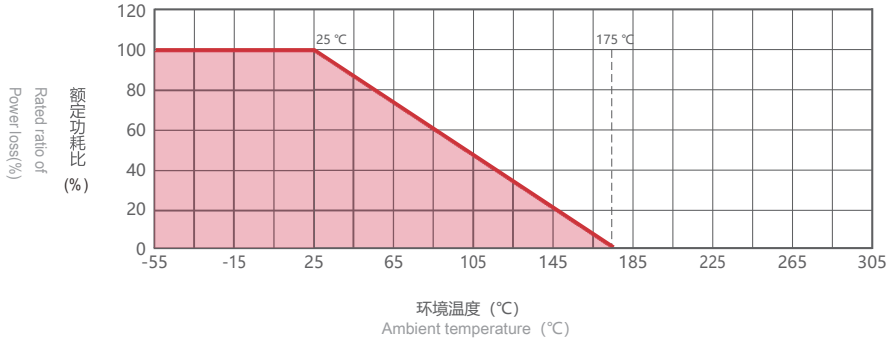
3.Accuracy range: ± 1% ± 5%



电气、机械特性 (Mechanical And Electrical Properties)

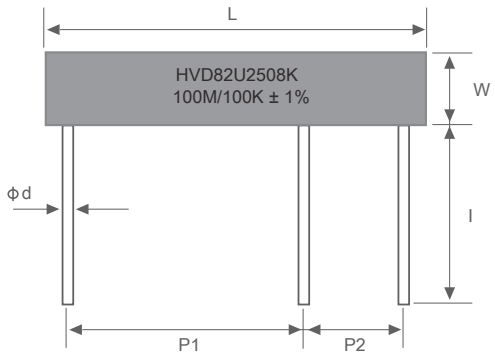
特 性 Property	检查方法 Inspection method	性能要求 Performance requirements	试验标准 Test method
过负荷特性 Overload characteristic	1.5 倍额定电压，连续 5 秒钟 1.5 times the rated voltage, for 5 seconds	R ≤±0.5%	GB5729.4.13
绝缘电阻 Insulation resistance	DC 1000V	R ≥1000MΩ	GB5729.4.6
相对温度系数 Relative temperature coefficient		50PPM/°C(根据要求可达15PPM/°C) 50PPM/ ℃ (up to 15PPM/ ℃ according to requirements)	GB5729.4.7
负载稳定性 Load stability	1000 小时额定功率 (室温) 1000h rated power (room temperature)	R ≤± 0.4%	GB5729.4.25
工作环境温度 Operating ambient temperature	-55 ° C~ 175 ° C	R ≤±0.5%	
防潮能力 Moisture resistance	Mil-Std-202, 方法 106 Method 106	R ≤±0.5%	
绝对温度系数 Absolute temperature coefficient		± 100PPM/ ℃ (25 ℃ ~85 ℃) (其它温度系数要求可协商) ± 100PPM/℃(25 ℃~85 ℃) (Other temperature coefficient requirements can be negotiated)	

降额曲线（Deraing Curve)



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产品尺寸图 (Product Size)



产品尺寸表 (Derating Curve)

型号 Model HVD82U	功率 Power 25 ℃ (W)	尺寸 Size (MM)						最大工作电压 (KV) Maximum operating voltage	阻值公差 Optional accuracy range
		L± 2	W± 2	P1± 0.5	P2± 0.5	I± 5	Φd± 0.2		
2508	0.3	25.4	7.62	17.78	5.08	20	0.55	5.0	F (± 1%) J (± 5%)
2513	0.5	25.4	12.7	17.78	5.08	20	0.55	7.0	
3813P5	1.5	38.1	12.7	27.94	5.08	20	0.55	10	
3813P7	1.5	38.1	12.7	27.94	7.62	20	0.55	10	
5113	2.5	50.8	12.7	38.1	10.16	20	0.75	12	
7615	3.5	76.2	15.24	63.5	10.16	20	0.75	15	
10215	4.5	101.6	15.24	88.9	10.16	20	0.75	20	
9020	5.0	90	20	76.9	10.16	20	0.75	18	
12220	5.5	122	20	111.3	5.6	20	0.75	25	

1. 各种尺寸，规格，电阻值可接受定制。 (Vs, specifications, rarious sizeesistance values can be customized.)
2. 额定功率将受到工作电压的影响。 (The rated power will be affected by the working voltage.)

成品识别码 (Product Identification Code)

HVD82U	2508	K	100M/100K	F
产品型号 Model	尺寸 (长×直径) Dimensions(length × diameter) 2508=25 × 5 2513=25 × 13	温度系数 Temperature coefficient K= ± 100ppm	阻值Resistance 100M/100K=100M Ω /100K Ω	精度 Accuracy F (± 1%) J (± 5%)

选型示例： HVD82U2508K100M/100K ± 1%(HVD82U ， 尺寸 25X8, ± 100ppm/ ℃,100M Ω /100K Ω ± 1%)
Selection example: HVD82U2508K100M/100K ± 1%(HVD82U, size 25X8, ± 100ppm/ ℃ , 100M Ω /100K Ω± 1%)