HVR80A 无感厚膜高压电阻器
HVR80A Non-Inductive Thick Film High Voltage Resistor

产品简述 (Product Profile)

电阻基体采用 95% 以上的高品质陶瓷，电阻膜层采用贵金属银、钌、钯等成分浆料，硅树脂和玻璃介质封装，引出端采用镀锡螺母或螺丝；经 850 ℃高温烧结而成，导热好，电性能稳定，具有耐高压无感、耐脉冲、高稳定性、耐潮湿，可在空气、高压油、环氧树脂中使用。

The matrix adopts more than 95% of high-quality ceramics , the resistance film is made of precious metal silver, ruthenium, palladium and other components of the paste,silicone packaging and glass media packaging,leading-out terminal of the tin-plated copper needle,sintered at 850℃ high temperature,good thermal conductivity, stable electrical performance,with high pressure resistance,non-inductive, pulse resistance, high stability, moisture resistance,they can be used in air, high pressure oil, epoxy resin.

产品特点 (Product Features)

1. 额定功率范围： 0.5W~25W
2. 耐压范围: AC 2.5KV~AC 45KV 50Hz/5s
3. 精度范围： ± 0.5% ± 1% ± 2% ± 5% ± 10%

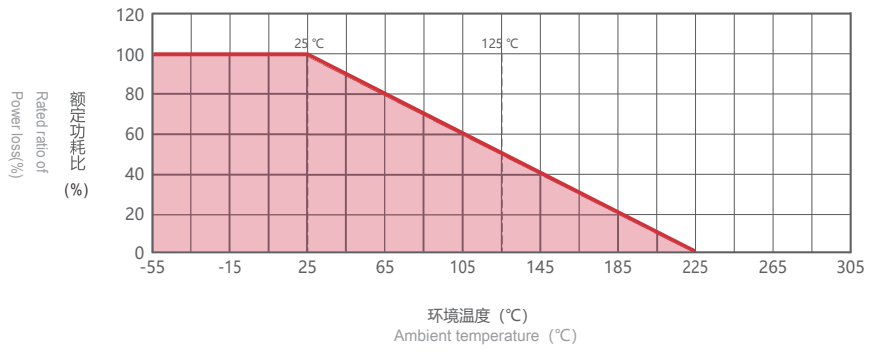
1.Rated power range: 0.5W~25W
2.Dielectric strength: AC 2.5KV~AC 45KV 50Hz/5s
3.Accuracy range: ± 0.5% ± 1% ± 2% ± 5% ± 10%



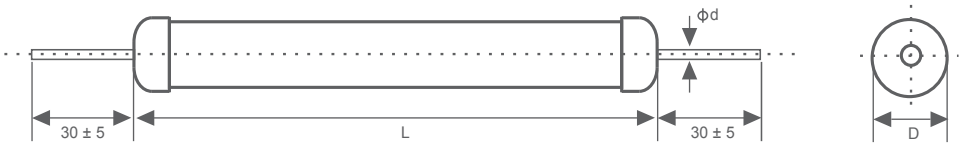
电气、机械特性 (Mechanical And Electrical Properties)

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	5倍额定功率，但不超过 1.5 倍最大持续工作电压，连续 5 秒钟 5 times the rated power, but not more than 1.5 times the maximum continuous operating voltagefor 5 seconds	R ≤± (0.2%±0.1Ω)	GB5729.4.13
绝缘电阻 Insulation resistance	DC 1000V	R≥1000 MΩ	GB5729.4.6
介质耐压 Dielectric withstand voltage	VDC 1000V 50Hz 5s	无击穿或飞弧 Free of breakage or flying arc	GB5729.4.7
负载稳定性 Load stability	1000 小时额定功率 (室温) 1000 h rated power(room temperature)	R ≤± (0.5%±0.1Ω)	GB5729.4.25
冷热冲击 Load stability	Mil-Std-202, 方法 107, 条件 C Method 107, Condition C	R ≤± (0.2%±0.1Ω)	
防潮能力 Moisture resistance	Mil-Std-202, 方法107 Method 107	R ≤± (0.4%±0.1Ω)	
工作环境温度 Operating ambient temperature	-55° C~ 225°C	R ≤± (0.2%±0.1Ω)	

降额曲线 (Derating Curve)



产品尺寸图 (Product Size)



产品尺寸表 (Product Size)

型号 Model HVR80A	功率 Power 25 ℃ (W)	功率 Power 125 ℃ (W)	尺寸 Size (MM)			最大工作电压 (KV) Maximum operating voltage	脉冲电压 (KV) Pulse voltage 1.2/50uS	阻值公差 Optional accuracy range
			L±2	D±1	Φd±0.05			
1505	0.5	0.3	15	5	0.8	2.5	4.0	D(±0.5%) F (±1%) G (±2%) J (±5%) K (±10%)
2205	0.8	0.5	22	5	0.8	3.5	5.0	
2505	1.0	0.6	25	5	0.8	5.5	9.0	
2905	1.2	0.8	29	5	0.8	6.3	10	
4205	1.7	1.2	42	5	0.8	11	15	
4805	2.0	1.4	48	5	0.8	13	28	
2008	2.5	1.5	20	8	1.0	4.0	6.0	
2408	3.0	2.0	24	8	1.0	5.0	8.0	
2608	3.5	2.5	26	8	1.0	6.0	9.0	
3009	4.5	3.0	30	9	1.0	10	15	
3909	5.0	3.5	39	9	1.0	10	20	
5208	7.0	4.5	52	8	1.0	15	30	
5009	7.5	5.0	50	9	1.0	15	30	
7709	11	7.5	77	9	1.0	22	40	
10209	12	8.0	102	9	1.0	32	50	
11709	14	9.0	117	9	1.0	35	60	
12709	15	10	127	9	1.0	37	65	
13709	17	12	137	9	1.0	40	70	
15209	20	15	152	9	1.0	48	77	
7211	13	8.5	72	11	1.0	20	35	
10211	18	12.5	102	11	1.0	32	50	
14511	25	17.5	145	11	1.0	45.0	74	

备注：各种尺寸，规格，电阻值可接受定制 。
Note: Various sizes, specifications, resistance values can be customized.

成品识别码 (Product Identification Code)

HVR80	A	K	15209	K	28M	F
产品型号 Model	A= 引线 (lead)	封装 Package K= 黑色 (black) L= 绿色 (green) H= 红色 (red) U= 蓝色 (blue)	尺寸(长×直径) Dimensions (length × diameter) 15209 =152×9 7211 =72×11 5208 =52×8	温度系数 Temperature coefficient J= ± 200ppm K= ± 100ppm L= ± 50ppm M= ± 25ppm	阻值Resistance 10K2= 10.2KΩ 1M=1MΩ 1G5=1. 5GΩ	精度 Accuracy D: ±0.5% F: ±1% G: ±2% J: ±5% K: ±10%

选型示例：HVR80AU15209K100MF(HVR80, 引线，蓝色，尺寸 152X9, ±100ppm/℃，100M ， ±1%)
Selection example: HVR80AU15209K100MF(HVR80, lead, blue, size 152X9,±100ppm/ ℃ ,100M, ±1%)