HVR40A 无感厚膜高压电阻器
HVR40A 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，引出端采用镀锡铜针；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： 0.25W~5W
2. 耐压范围: AC 1KV~AC 5KV 50Hz/5s
3. 精度范围： ± 1% ± 2% ± 5% ± 10%

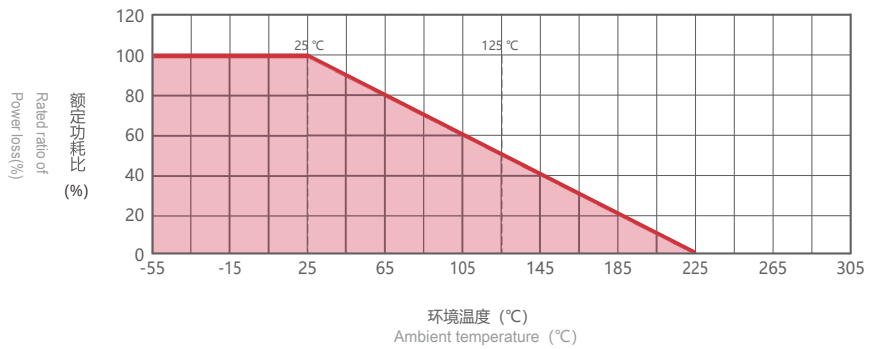
1.Rated power range: 0.25W~5W
2.Dielectric strength: AC 1KV~AC 5KV 50Hz/5s
3.Accuracy range: ± 1% ± 2% ± 5% ± 10%



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 rat ed pow er (roo m tempe rature)	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106 Method 106	R ≤±(0.4%±0.1Ω)	
工作环境温度 Operating ambient temperature	-55 °C~225°C	R ≤±(0.2%±0.1Ω)	

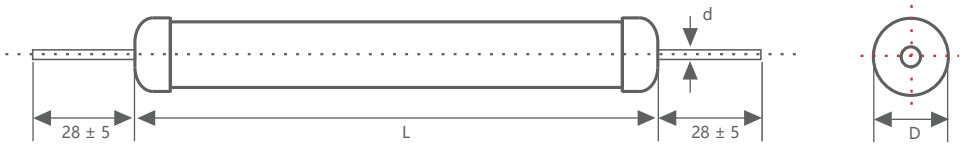
降额曲线 (Derating Curve)



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产品尺寸图 (Product Size)

A 型
Type A



C9503 型
Type 9503



产品尺寸表 (Product Size)

型号 Model HVR40A	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	d±0.05			
0602	0.25	0.15	6.0	2.5	0.5	1.0	1.5	F (± 1%) G (± 2%) J (±5%) K (±10%)
0903	0.5	0.3	9.0	3.0	0.55	1.5	2.0	
2903	1.5	0.45	29	3.0	0.75	6.0	10	
C9503	5.0	1.5	95	2.5	8.0	20	40	
1204	1.0	0.3	12	4.0	0.7	2.0	3.0	
1505	2.0	0.6	15	5.0	0.7	2.5	4.0	
2205	2.5	0.75	22	5.0	0.8	3.5	5.0	
2505	3.0	0.9	25	5.0	0.8	5.5	9.0	
2905	3.5	1.05	29	5.0	0.8	6.0	10	
3905	5.0	1.5	39	5.0	0.8	8.0	12	
4205	5.5	1.65	42	5.0	0.8	11	15	
4805	6.0	1.8	48	5.0	0.8	13	28	
1706	3.0	0.9	17	6.0	0.7	3.0	4.5	
2408	5.0	1.5	24	8.0	0.8	5.0	8.0	

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

成品识别码 (Product Identification Code)

HVR40	A	4205	K	100M	F
产品型号 Model	A= 引线 (lead)	尺寸 (长×直径) Dimensions (length × diameter) 4205 =42×5 2408 =24×8	温度系数 Tem perature coefficient J= ± 200ppm K= ± 100ppm L= ± 50ppm M= ± 25ppm	阻值Resistance 10K2=10.2KΩ 1M=1MΩ 1G5=1. 5GΩ	精度Accuracy F:+ 1% G: +2% J:+ 5% K:+10%

选型示例：HVR40A4205K200M J(HVR40, 引线，尺寸 42X5, ±100ppm/℃，200M，± 5%)
Selection example: HVR40A4205K200M J(HVR40, lead, size 42X5, ±100ppm/℃ ,200M, ±5%)