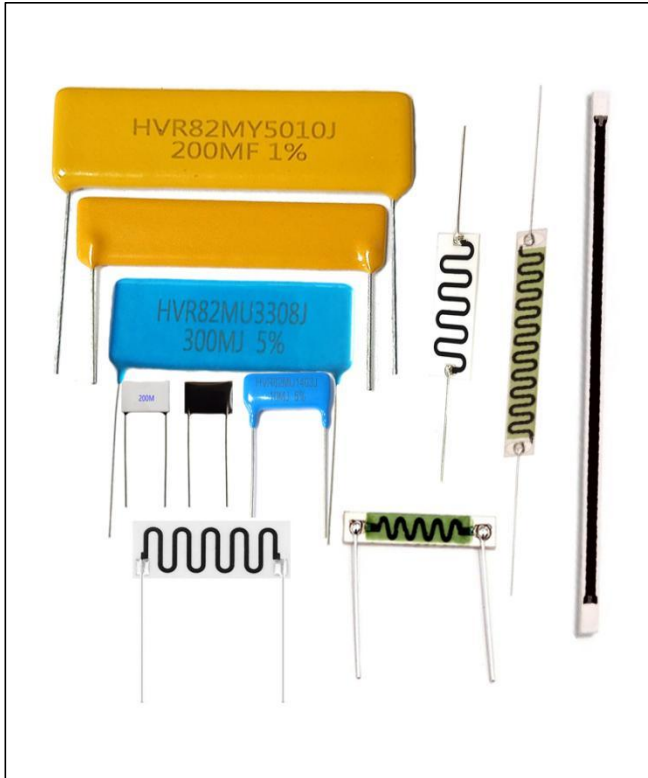


HVR82 无感厚膜高压电阻

HVR82 non inductive thick film high-voltage resistor



1、硅树脂封装和玻璃介质封装，可在空气、高压油、环氧树脂中使用，电阻误差值提供以下四种选择：±0.5%、±1%、±2%、±5%、±10%。

silicone packaging and glass media packaging, they can be used in air, high pressure oil, epoxy resin, resistance error value to provide the following four options: ±0.5%、±1%、±2%、±5%、±10%.

2、功率范围，0.25W~12W，具有耐高压、无感、耐脉冲、高稳定性、耐潮湿。引出端采用镀锡铜。

Power range, 0.25W ~ 12W, with high pressure resistance, Non-inductive, pulse resistance, high stability, moisture resistance. Leading-out terminal adopts tinned copper needle.

3、基体采用95%以上的高品质陶瓷（ Al_2O_3 ），电阻膜层采用贵金属银、钌、钯等成分浆料，经850℃高温烧结而成，导热好，电性能稳定。

the matrix adopts more than 95% of high-quality ceramics (Al_2O_3), the resistance film is made of precious metal silver, ruthenium, palladium and other components of the paste, sintered at 850℃ high temperature, good thermal conductivity, stable electrical performance, leading-out terminal of the tin-plated copper needle.

适用范围 scope of application

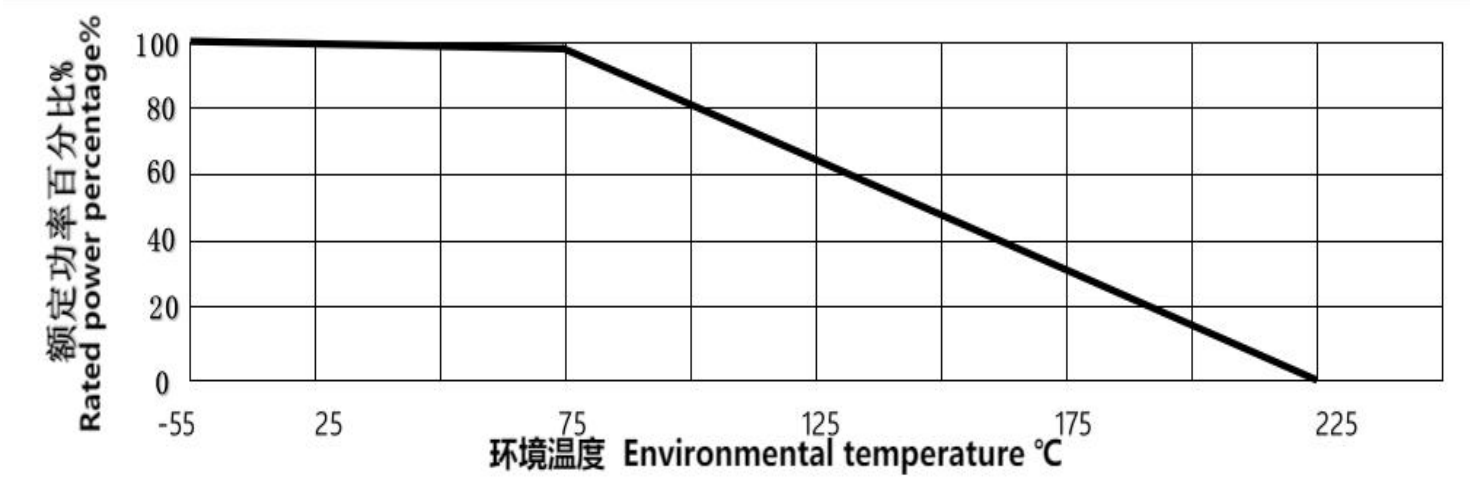
有高压和脉冲、浪涌的电路中都适用，使用场合相当广泛，如高压电力设备、高压电源、静电设备、喷涂设备、医疗CT&X光机、高压阻容器、真空设备、分压电路、高压测试设备、高压仪器仪表等。
There are high voltage and pulse, surge circuit is suitable for a wide range of applications, such as high voltage power equipment, high voltage power supply, electrostatic equipment, spraying equipment, medical CT&X-ray machine, high voltage resistance container, vacuum equipment, pressure circuit, high voltage test equipment, high voltage instrumentation.

性能指标 Performance evaluation

测试项目 Test Item	测试方法 Test method	性能指标 Performance indicators
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，连续五秒 5 times the rated power, but not more than 1.5 times the maximum continuous operating voltage for 5 seconds	$\Delta R \leq \pm(0.2\%R + 0.1\Omega)$
工作环境温度 Operating ambient temperature	-55℃ ~225℃	空白 blank
介质耐压 Dielectric withstand voltage	1000VDC，60秒钟 1000VDC，60second	空白 blank
负载稳定性 Load stability	1000 小时额定功率（室温） 1000 hour rated power (room temperature)	$\Delta R \leq \pm(0.5\%R + 0.1\Omega)$
冷热冲击 Thermal Shock	Mil-Std-202,方法 107,条件C Mil-Std-202,Method 107, Condition C	$\Delta R \leq \pm(0.2\%R + 0.1\Omega)$
防潮能力 Moisture resistance	Mil-Std-202,方法 106 Mil-Std- 202,Method 106	$\Delta R \leq \pm(0.4\%R + 0.1\Omega)$
绝缘电阻 Insulation resistance	> 10000M	

额定功率或电压/温度变化相关曲线

Rated power or voltage/temperature variation related curve



HVR82



片式 厚膜 无感 高压电阻器 Slice style Thick film Non-inductive High-voltage resistor

规格参数 Specification parameter

Type: M									
型号 Model	功率 Power	最大工作电压 Maximum working voltage	可选精度范围 Optional accuracy range	尺寸 dimensions (mm)					
HVR82	25℃ (W)	(KV)	(%)	L±2	S±2	P±0.5	H±1	I±5	D±0.2
0510	1/4W	7	D: ±0.5% F: ±1% G: ±2% J: ±5% K: ±10% M: ±20%	5	10	3	2.0	10	0.6
0704	1/4W	5		7	4	6	2.0	10	0.6
0903	1/4W	6		9	3	7	2.0	10	0.6
0906	1/4W	6		9	6	7	2.0	10	0.6
1005	1/4W	6.5		10	5	8	2.0	10	0.6
1203	1/4W	7		12	3	10	2.0	10	0.6
1205	1/4W	8		12	5	10	2.0	10	0.6
1903	0.5W	9		19	3	17	2.0	10	0.6
2010	0.8W	10		20	10	17	2.0	15	0.6
2015	1W	10		20	15	17	2.0	15	0.6
2204	1/4W	8		22	4	19	2.0	15	0.6
2213	1W	10		23	13	19	2.0	无	无
2505	1/2W	10		25	5	22	2.0	20	0.6
2510	1W	15		25	10	22	2.0	20	0.6
2806	1W	15		28	6	25	2.0	20	0.6
3005	1/2W	15		30	5	27	2.0	20	0.6
3010	1.2W	15		30	10	27	2.0	20	0.6
3015	1.8W	15		30	15	27	2.0	20	0.6
3308	1.3W	15		33	8	30	2.0	20	0.6
3810	2W	20		38	10	35	2.0	20	0.6
4105	1.2W	20		41	5	38	2.0	20	0.6
4510	3W	20		45	10	42	2.0	20	0.6
5010	3.5W	25		50	10	46	2.0	20	0.6
5107	4W	20		51	7	47	2.0	20	0.6
6005	2W	22		60	5	56	2.0	20	0.6
6010	5W	25		60	10	56	2.0	20	0.6
7003	1.5W	28		70	3	66	2.0	无	无
9020	12W	32		90	20	86	2.0	40	0.6

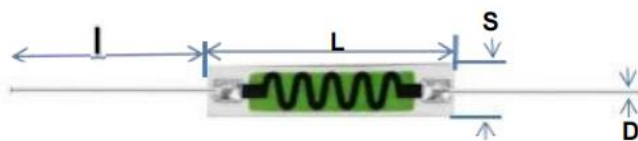
注意事项 points for attention:

- 1、各种尺寸，规格，电阻值可接受定制 Various sizes, specifications, resistance 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.
- 3、可定制以下C型、A型 The following C and A types can be customized.

Type: C



Type: A

(封装外观仅为L)
(The packaging appearance is only L)

订购信息 ordering information

选型示例: HVR82MU2510K100MF(HVR82,门字型, 蓝色, 尺寸 25X10,±100ppm/°C, 100MΩ, ±1%)

Selection example: HVR82MU2510K100MF (HVR82, portal, blue, size 25X10, ±100ppm/°C, 100MΩ, ±1%)

HVR82	M	U	2510	K	100M	F
系列型号 Series model	外形结构 outline structure	封装外观 Packaging appearance	尺寸 dimensions	温度系数 temperature coefficient	阻值 Resistance	精度 Accuracy
HVR82	A=轴向 axial C=无引线 Leadless M=门字形 Gate shaped	L=绿介质 Green medium U=蓝环氧 Blue epoxy Z=单环氧 Single epoxy	5010=51X10 2510=25X10	J=±200ppm K=±100ppm L=±50ppm M=±25ppm	1M=1MΩ 1G5=1.5GΩ 10K2=10.2KΩ	D:±0.5% F:±1% G:±2% J:±5% K:±10%