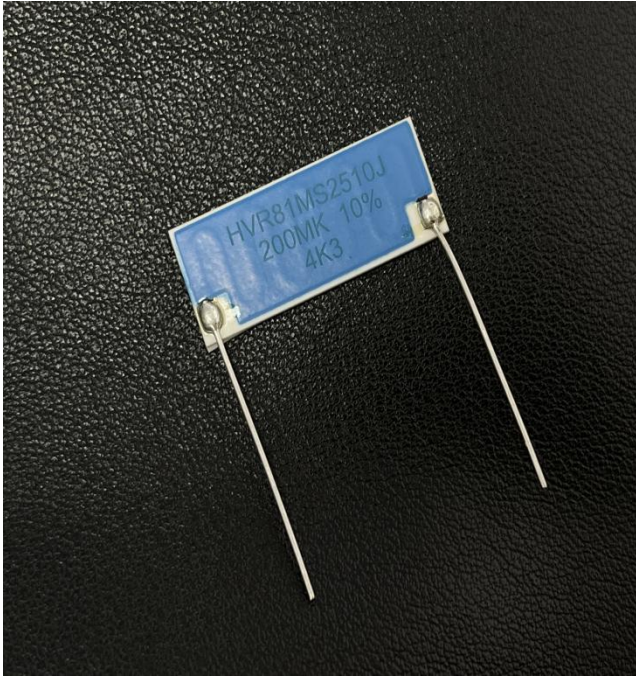




技术特点 FEATURES

- 片式（厚膜，无感设计）高压电阻器，采用 0.635mm/0.80mm/1.0mm 等厚度,96%含量的陶瓷基片
Chip (thick film, non inductive design) high-voltage resistor, using ceramic substrate with a thickness of 0.635mm/0.80mm/1.0mm and 96% content

外表面涂覆 External surface coating

- D 系列：高温漆(蓝)双面全包封，涂层厚度约 0.2mm，具有较好的密封保护性能。

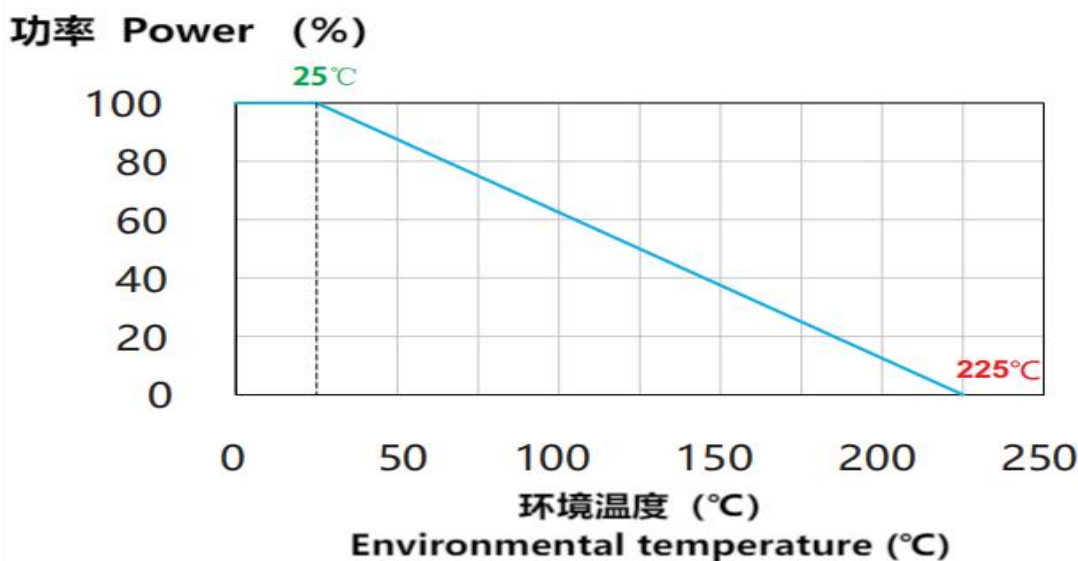
D series: High temperature paint (blue) double-sided fully enclosed, with a coating thickness of about 0.2mm, providing good sealing and protection performance.

- S 系列：表面印制硅，厚度约 0.01mm，仅覆盖电阻膜层，具有良好的散热性能，可以直接使用，也可以树脂或硅胶整体封装，以提高其绝缘密封性能。

S series: Surface printed silicon with a thickness of about 0.01mm, only covering the resistive film layer, has good heat dissipation performance, can be used directly, or can be encapsulated as a whole with resin or silicone to improve its insulation and sealing performance.

额定功率或电压/温度变化相关曲线

Rated power or voltage/temperature variation related curve

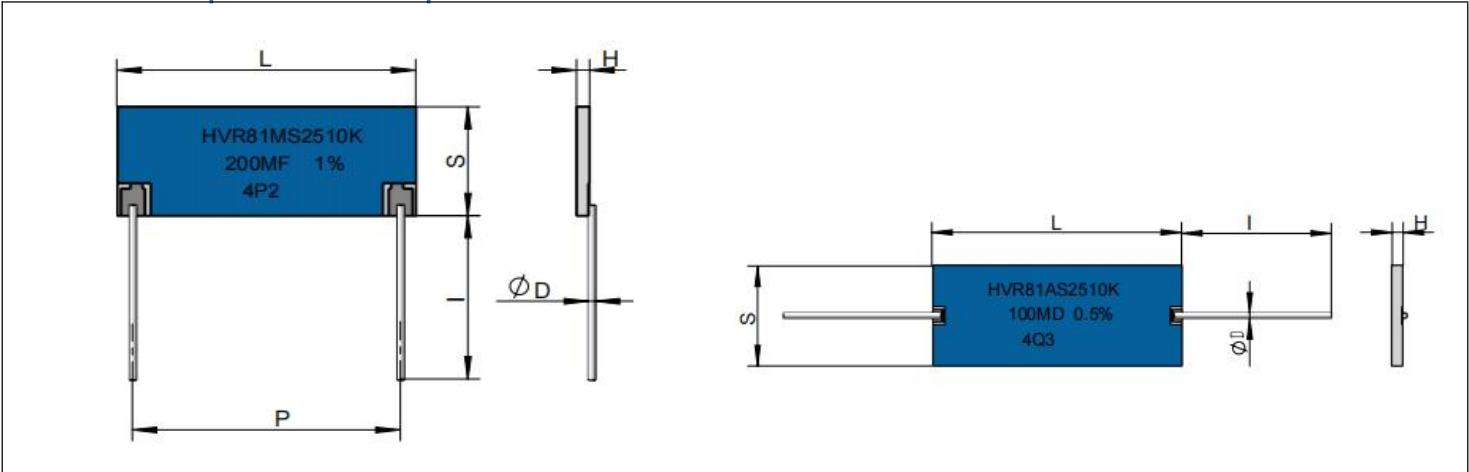


HVR81



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



型号 Model	功率 Power 25℃ (W)	最大工作电压 Maximum working voltage (KV)	可选精度范围 Optional accuracy range (%)	尺寸 dimensions (mm)					
HVR81				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

- 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.

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	

订购信息 **ordering information**

选型示例：HVR81MS2510K100MF(HVR81,门字型，单面涂层，尺寸 25X10,±100ppm/℃，100MΩ，±1%) Selection example:HVR81MS2510K100MF (HVR81, door shaped, Single sided coating, size 25X10, ± 100ppm/℃, 100MΩ, ± 1%)						
HVR81	M	S	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
HVR81	A=轴向 axial M=门字形 Gate shaped	S=单面涂层 Single sided coating D=双面包封 Double sided packaging	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%