HVR81 片式厚膜无感高压电阻器
HVR81 Slice style Thick film Non-inductive High-voltage resistor

产品特点（Product Features）



片式（厚膜，无感设计）高压电阻器，采用0.635mm/0 .80mm/1 .0 mm等厚度,96%含量的陶瓷基片

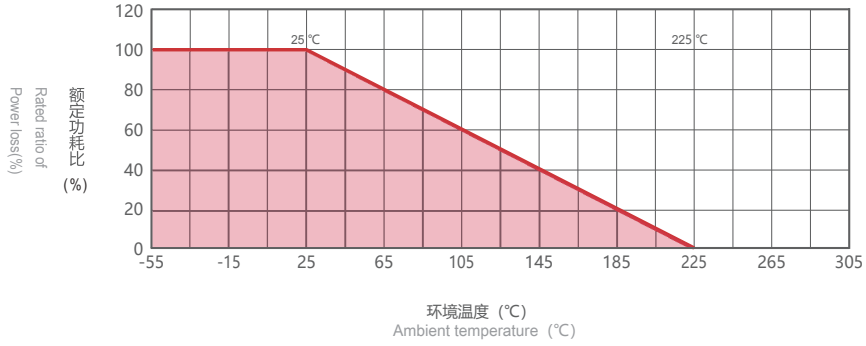
Chip (thick film, non inductive design) high-voltage resistor, using ceramic substrate with a thickness of0.635mm/0 .80mm/1 .0 mm and 96%content

外表面涂覆 (External surface coating)

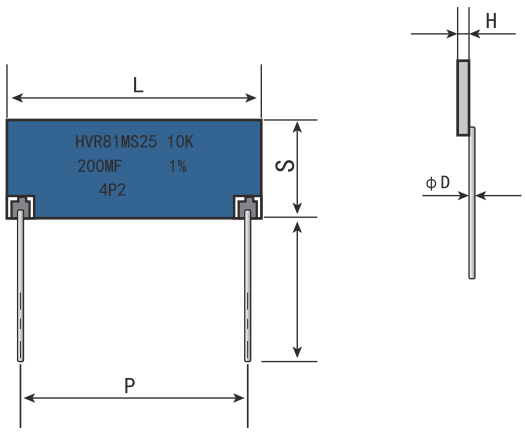
D 系列：高温漆(蓝)双面全包封，涂层厚度约0.2 mm，具有较好的密封保护性能。
S 系列：表面印制硅，厚度约0.01mm，仅覆盖电阻膜层，具有良好的散热性能，可以直接使用，也可以树脂或硅胶整体封装，以提高其绝缘密封性能。

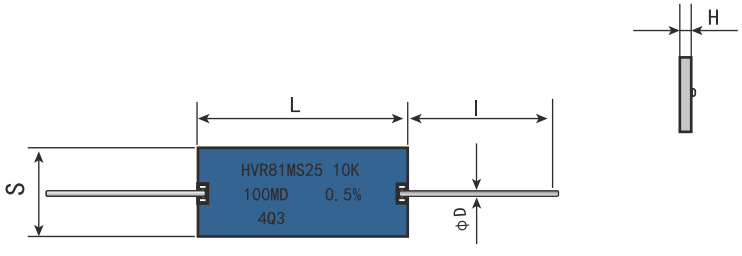
D series:High temperature paint (blue)double-sided fully enclosed,with a coating thickness of about 0.2mm,providing good sealing and protection performance.
S series:Surface printed silicon with a thickness of about0.01mm,only covering the resistive film layer,has good heat dissipation performance,can be used directly,or can be encapsulated as a whole with resin or silicone to improve its insulation and sealing performance.

降额曲线 (Deraing Curve)



规格参数 (Specifications)





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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		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	D：±0.5%	23	13	19	2.0	无	无
2505	1/2W	10	F:±1%	25	5	22	2.0	20	0.6
2510	1W	15	G：±2%	25	10	22	2.0	20	0.6
2806	1W	15	J：±5%	28	6	25	2.0	20	0.6
3005	1/2W	15	K：±10%	30	5	27	2.0	20	0.6
3010	1.2W	15	M：±20%	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

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1、各种尺寸，规格，电阻值可接受定制

2、额定功率将受到工作电压的影响

Various sizes,specifications,resistance values can be customized.

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	△R ≤±(0 .2%R +0.1Ω)
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)	△R ≤±(0 .5%R +0.1Ω)
冷热冲击 Thermal Shock	Mil-Std-202,方法107,条件C Mil-Std-202,Method 107,Condition C	△R ≤±(0 .2%R +0.1Ω)
防潮能力 Moisture resistance	Mil-Std-202,方法106 Mil-Std-202,Method 106	△R ≤±(0 .4%R +0.1Ω)
绝缘电阻 Insulation resistance	> 10000M	

选型示例 (Selection example)

HVR81	M	S	2510	K	100M	F
系列型号 Series model HVR81	外形结构 outline structure A =轴向axial M =门字形 Gate shaped	封装外观 Packaging appearance S =单面涂层 Single sided coating D =双面包封 Double sided packaging	尺寸 dimensions 5010 =51X 10 2510 =25X 10	温度系数 temperature coefficient J=±200ppm K=±100ppm L=±50ppm M=±25ppm	阻值 Resistance 1M=1MΩ 1G5=1.5GΩ 10 K2=10.2K	精度 Accuracy D:±0.5% F:±1% G:±2% J:±5% K:±10%

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/℃,100M Ω,±1%)