

HVR80C/B



圆柱形 厚膜 无感 高压电阻器 Cylindrical Thick film Non inductive High voltage Resistor



HVR80B/C/D 无感厚膜高压电阻器 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： $\pm 0.1\%$ 、 $\pm 0.5\%$ 、 $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 5\%$ 。

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: $\pm 0.5\%$, $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$

2，功率范围，2.5W~500W，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, 0.5W ~ 25W, 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，引出端采用镀锡螺母或螺丝。

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

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.

注意事项 matters needing attention

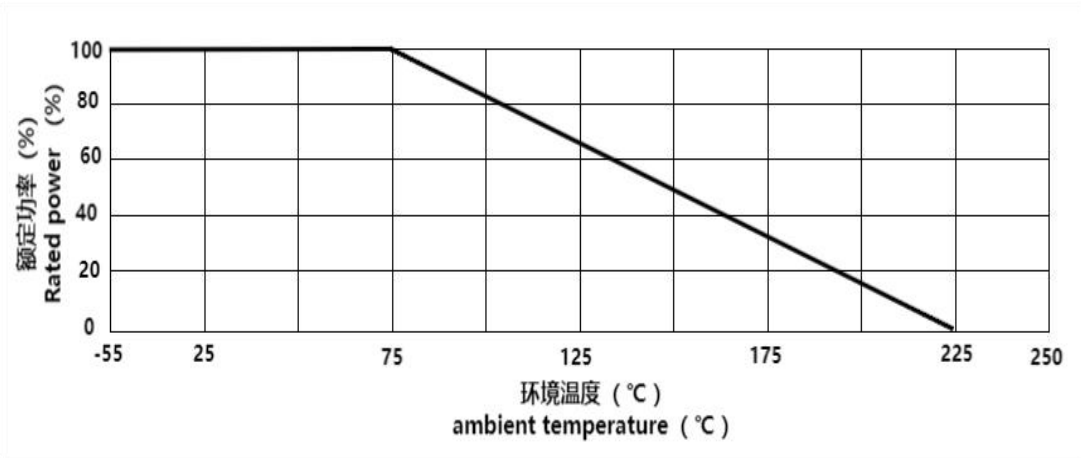
- ★各种尺寸，规格，电阻值可接受定制。 Various sizes, specifications, and resistance values can be customized
- ★额定功率将受到工作电压的影响。 The rated power will be affected by the working voltage.

材质类别 Material category	使用环境 Usage environment			ROHS
	空气中 In the air	油中 In oil	灌封中 Encapsulation	
大红袍 Red	√	✗	√	✗
黑色硅树脂 Black silicone resin	√	√	√	√
黑色/蓝色 环氧树脂 Black/Blue Epoxy Resin	√	√	√	√
陶瓷棒 Ceramic rod	√	√	√	√
陶瓷管 Ceramic tube	√	√	✗	√

性能指标 performance index

测试项目 Test items	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 5 秒钟 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） 1000h rated power (room temperature)	$\Delta R \leq \pm (0.5\%R + 0.1\Omega)$
冷热冲击 Load stability	Mil-Std-202,方法 107, 条件 C 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 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

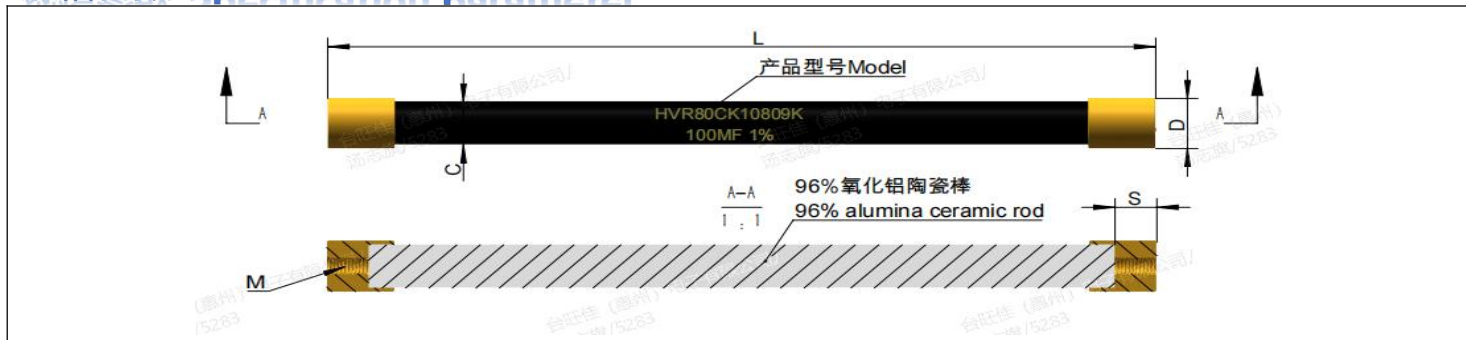


HVR80C

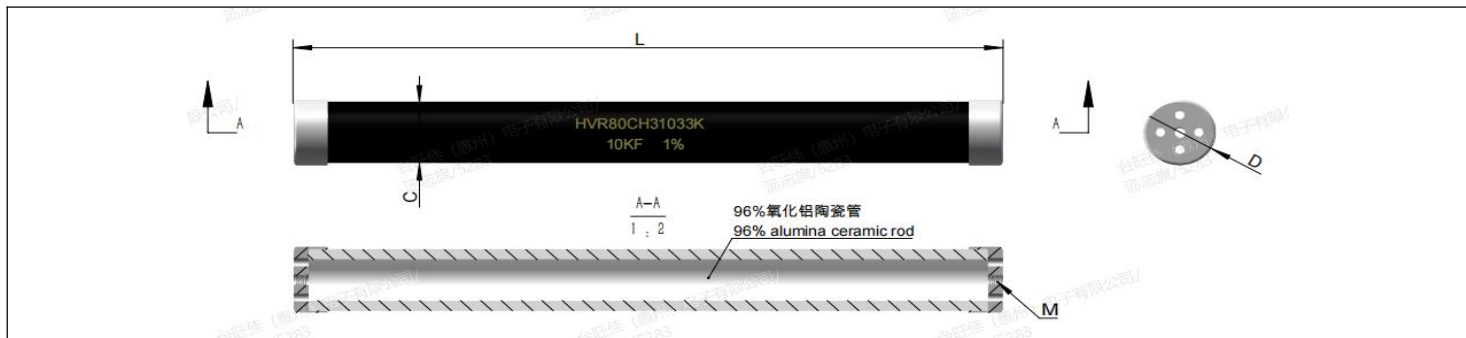


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规格参数 Specification parameter

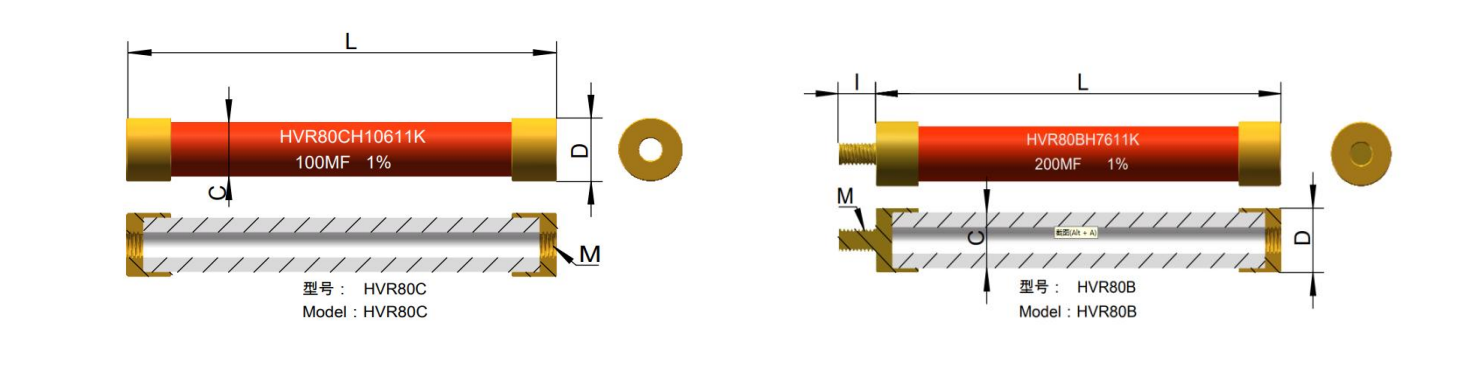


型号 Model	功率 Power 25℃ (W)	功率 Power 125℃ (W)	最大工作电压 Maximum working voltage (KV)	脉冲电压 Pulse voltage (KV) 1.2/50uS	可选精度范围 Optional precision range (%)	尺寸 dimensions (mm)				
HVR80C						L±2	D±1	C±0.5	S±1	M
10809	12	7	32	50	D: ±0.5% F: ±1% G: ±2% J: ±5%	108	9.5	8.5	5	M4
12309	14	8	35	60		123	9.5	8.5	5	
13309	15	9	37	65		133	9.5	8.5	5	
14509	17	10	40	70		145	9.5	8.5	5	
16109	20	12	48	77		161	9.5	8.5	5	
5611	8	5	20	35		56	11	10.3	8	
8611	13	8	20	35		86	11	10.3	8	
11611	15	9	32	50		116	11	10.3	8	
13611	18	11	35	60		136	11	10.3	8	
15911	20	12	45	70		159	11	10.3	8	



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HVR80C						L±2	D±1	C±0.5	M
11027	60	36	30	48	D: ±0.5% F: ±1% G: ±2% J: ±5%	110	27	25	M6
13027	80	48	37	65		130	27	25	
16027	100	60	50	92		160	27	25	
21027	150	90	55	100		210	27	25	
26027	200	120	65	115		260	27	25	
11033	100	60	32	50		110	33	30	
16033	150	90	50	92		160	33	30	
21033	200	120	65	100		210	33	30	
25033	240	140	75	120		250	33	30	
31033	300	180	80	150		310	33	30	
15037	180	108	48	77		150	37	35	M8
21037	250	150	65	115		210	37	35	
31037	400	240	80	150		310	37	35	
31052	500	300	80	150		310	52	50	M10

规格参数 Specification parameter



型号 Model	功率 Power	功率 Power	最大工作电压 Maximum working voltage	脉冲电压 Pulse voltage	可选精度范围 Optional precision range	尺寸 dimensions (mm)				
	25℃ (W)	125℃ (W)	(KV)	(KV) 1.2/50uS	(%)	L±2	D±1	C±0.5	I±1	M
HVR80B										
HVR80C										
4611	8	5	20	35	D: ±0.5% F: ±1% G: ±2% J: ±5%	46	11	10.3	7	M4
7611	13	8	20	35		76	11	10.3	7	M4
10611	15	9	32	50		106	11	10.3	7	M4
14911	18	11	35	60		149	11	10.3	7	M4
11618	20	12	30	48		116	18	16	10	M5/M6
11619	30	18	30	48		116	19	17	10	M5/M6
11621	50	30	30	48		116	21	19	10	M6

订购信息 ordering information

选型示例: HVR80CH14911K100MF (HVR80, 螺钉+螺母, 红色, 尺寸 149x11, ±100ppm/℃, 100M , ±1%)
Selection example: HVR80CH14911K100MF (HVR80, screw+nut, Red, Size 149x11, ± 100ppm/℃, 100M, ± 1%)

HVR80	C	H	14911	K	100M	F
系列型号 Series model	B=螺钉+螺母 Screw+Nut C=螺母+螺母 Nut+Nut	封装 Package K=黑色 black H=红色 red	尺寸 (长 X 直径) Dimensions (length×diameter) 14911=149x11	温度系数 Temperature coefficient J=±200ppm K=±100ppm	阻值 Resistance 10K2=10. 2K 1M=1MΩ 1G5=1. 5GΩ	精度 Accuracy D: ±0. 5% F: ±1% G: ±2% J: ±5%