

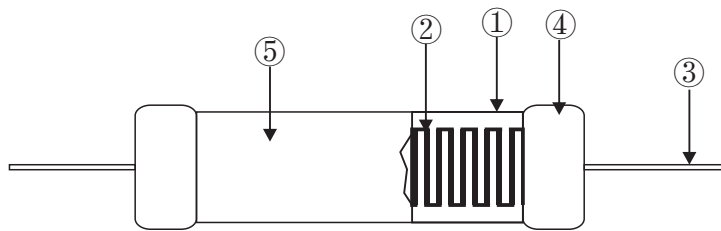


Body Color
Standard (Red 红色)
Marking
Alphanumeric (5W~20W)
(According to the customer request to provide corresponding identification)

● Feature

- I No Inductance
- II Excellent Tolerance
- III Wider resistance values
- IV High Voltage, High Power

● Construction

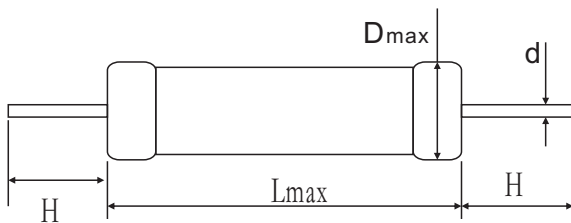


● Application

- I Impulse voltage generator
- II Electric-arc furnace damping,
- III Pulse modulator, radar pulse opens the network
- IV Arc suppression circuit of capacitor, high voltage buffer circuit
- V X-ray/head portrait equipment and EMI/ lightning suppression

①	②	③	④	⑤
Ceramic core	Glazed resistive film	Lead	Iron cap	Protective coating

● Dimensions



Type	Power (W)	Dimensions (mm)			
		Lmax	Dmax	H ± 3	d ± 0.1
HVR1	1W	11 ± 2	5 ± 1	30	0.8
HVR1	2W	16 ± 2	6 ± 1	30	0.8
HVR1	3W	24 ± 2	9 ± 1	30	0.8
HVR1	5W	30 ± 2	9 ± 1	30	1.0
HVR1	7W	50 ± 2	9 ± 1	30	1.0
HVR1	10W	65 ± 2	9 ± 1	30	1.0
HVR1	15W	100 ± 2	9 ± 1	30	1.0
HVR1	20W	147 ± 2	11 ± 1	30 或 10	1.0 或 M4

● Reference Standards

JISC 5201-1

● Ordering Information

Example

HVR1	5	F	1K
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1) Type: HVR1

(2) Power Rating: 1=1W, 2=2W, 3=3W, 5=5W, 7=7W, 10=10W, 15=15W, 20=20W

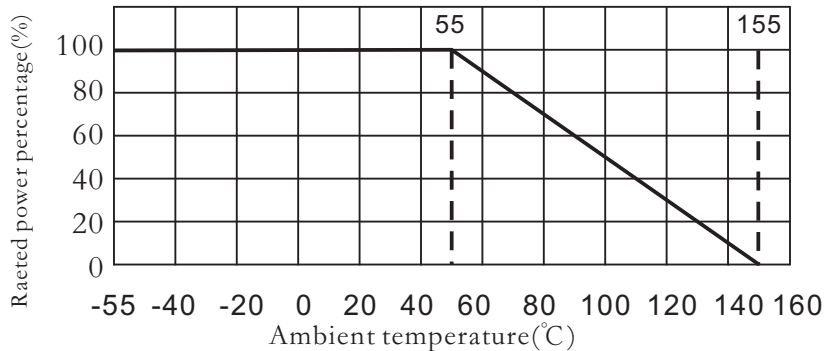
(3) Tolerance: F=±1%, G=±2%, J=±5%, K=±10%

(4) Resistance Value: 1KΩ, 5KΩ, 10KΩ, 100KΩ...

Power And Resistance etc

Rated Power (W)	Resistance Range(Ω)	(PPM/ $^{\circ}$ C)	Max. Power Voltage(KV)	Applicable temperature	Tolerance
1W	1.0K-1000G	± 200	10	-55 $^{\circ}$ C ~ +70 $^{\circ}$ C	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)
2W			10		
3W			10		
5W			10		
7W			15		
10W			15		
15W			25		
20W			30		

Derating Curve



Non-inductive Characteristics

HVR use non-inductive design, special glazed film , distribute itself like the Great Wall $\square\square\square\square$, this high efficiency and non-inductive design will not cut any advantages of the resistor's function. It is perfect for products which request high frequency . Inductor value keeps at $0.1\mu\text{H}\sim 1\mu\text{H}$.



Performance

Test Item	Specifications(JISC 5201-1)
Resistance Tolerance	$\pm 1\%$ $\pm 5\%$ $\pm 10\%$ (tolerance to 0.5% on special order)
Temperature Coefficient	100ppm/ $^{\circ}$ C (Referanced to +25 $^{\circ}$ C, ΔR taken at +125 $^{\circ}$ C and -55 $^{\circ}$ C)
Load life	+125 $^{\circ}$ C, 1000小时 $\Delta R \leq 0.4\%$
Insulate resistance	$\geq 1000\text{M}\Omega$
Encapsulation	High temperature silicone conformal
Overload	2.5reted power(≤ 1.5 Max. operating voltage)5s $\Delta R \leq 0.5\%$
Thermal shock	$\Delta R \leq 0.25\%$
Moisture resistance	$\Delta R \leq 0.4\%$
Solderable Lead	$30 \pm 3\text{mm}$