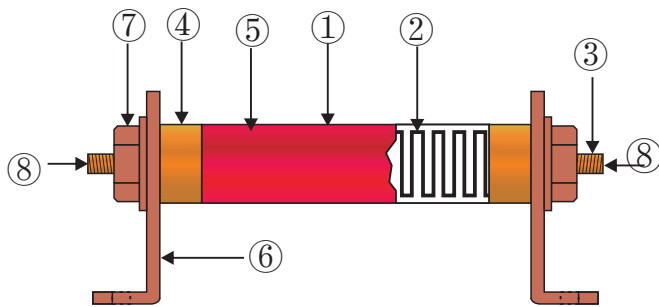


Body Color
Standard(Red)
Marking
Alphanumeric (20W~1000W)

Construction



- ① Ceramic core
- ② Glazed resistive film
- ③ Screw
- ④ Copper cap
- ⑤ Protective coating
- ⑥ Epoxy stents
- ⑦ Epoxy nut
- ⑧ Terminal

Feature

- No Inductance
- Excellent Tolerance
- Wider resistance values
- High Voltage ,High Power

Applications

- 1、 Impulse voltage generator
- 2、 Electric-arc furnace damping,
- 3、 Pulse modulator, radar pulse opens the network
- 4、 Arc suppression circuit of capacitor, high voltage buffer circuit
- 5、 X-ray/head portrait equipment and EMI/ lightning suppression

Ordering Information

Example

HVZ	20	J	100K	A
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	Resistance Value	Special forming

(1)Type: HVZ

(2)Power Rating:20=20W,50=50W,100=100W

(3) Resistance Tolerance :F($\pm 1\%$),G($\pm 2\%$),J($\pm 5\%$),K($\pm 10\%$)

(4)Resistance Value:1MK Ω ,100K Ω ,10K Ω ,1K Ω ...

(5)Special forming: A1 With brackets, A2 Without Brackets

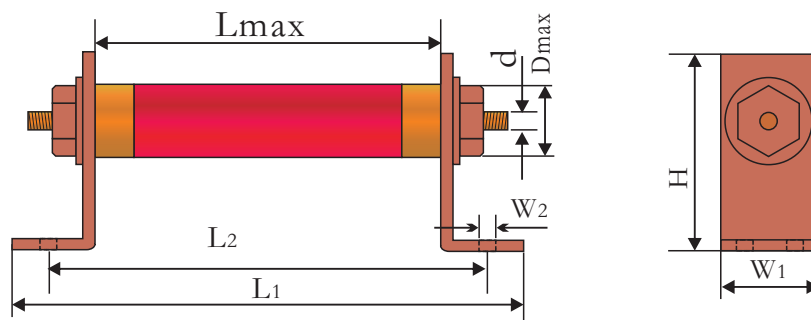
Reference Standards

JIS C 5201-1

Power And Resistance etc

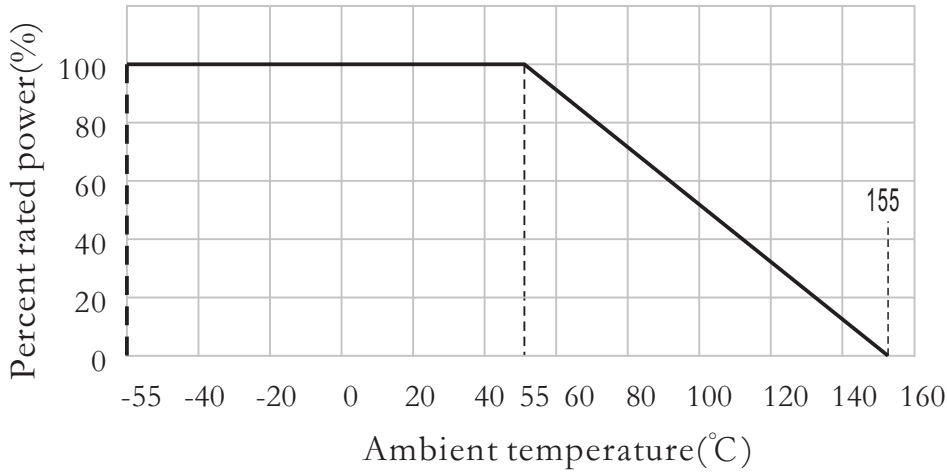
Rated Power(W)	Resistance Range(Ω)	TCR(PPM/ $^{\circ}$ C)	Max working Voltage(KV)	Applicable temperature	Tolerance
20W	1.0K-1000G	± 300	30	-55 $^{\circ}$ C ~ +70 $^{\circ}$ C	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)
25W	1.0K-1000G	± 300	30		
30W	1.0K-1000G	≤ 400	30		
50W	1.0K-1000G	≤ 400	30		
80W	1.0K-1000G	≤ 400	30		
100W	1.0K-1000G	≤ 400	30		
150W	1.0K-1000G	≤ 400	35		
200W	1.0K-1000G	≤ 400	35		
300W	1.0K-1000G	≤ 400	35		
400W	1.0K-1000G	≤ 400	35		
500W	1.0K-1000G	≤ 400	40		
600W	1.0K-1000G	≤ 400	50		
800W	1.0K-1000G	≤ 400	60		
1000W	1.0K-1000G	≤ 400	80		

Dimensions



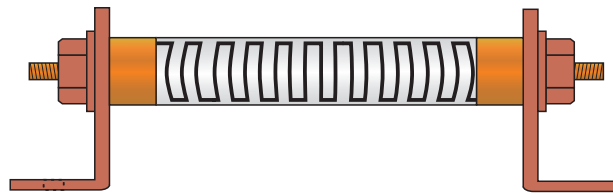
Type	Power	Dimensions(mm)							
		Lmax	Dmax	d ± 0.1	L1	L2	H	W1	W2
HVZ20W	20W	147 ± 2	11 ± 1	M6	167 ± 2	187 ± 2	40 ± 1	20 ± 1	10 ± 1
HVZ25W	25W	116 ± 2	17 ± 1	M6	156 ± 2	136 ± 2	50 ± 1	20 ± 1	10 ± 1
HVZ30W	30W	116 ± 2	19 ± 1	M6	156 ± 2	136 ± 2	50 ± 1	20 ± 1	10 ± 1
HVZ50W	50W	116 ± 2	19 ± 1	M6	156 ± 2	136 ± 2	50 ± 1	20 ± 1	10 ± 1
HVZ80W	80W	116 ± 2	21 ± 1	M6	156 ± 2	136 ± 2	50 ± 1	30 ± 1	10 ± 1
HVZ100W	100W	130 ± 2	27 ± 1	M6	170 ± 2	150 ± 2	60 ± 1	30 ± 1	10 ± 1
HVZ150W	150W	160 ± 2	27 ± 1	M6	200 ± 2	180 ± 2	60 ± 1	30 ± 1	10 ± 1
HVZ200W	200W	210 ± 2	27 ± 1	M6	250 ± 2	230 ± 2	60 ± 1	30 ± 1	10 ± 1
HVZ300W	300W	260 ± 2	27 ± 1	M6	310 ± 2	290 ± 2	60 ± 1	30 ± 1	10 ± 1
HVZ400W	400W	310 ± 2	33 ± 1	M6	350 ± 2	330 ± 2	65 ± 1	45 ± 1	15 ± 1
HVZ500W	500W	480 ± 2	27 ± 1	M6	530 ± 2	530 ± 2	60 ± 1	30 ± 1	10 ± 1
HVZ600W	600W	520 ± 2	27 ± 1	M6	560 ± 2	560 ± 2	60 ± 1	30 ± 1	10 ± 1
HVZ800W	800W	620 ± 2	33 ± 1	M6	660 ± 2	660 ± 2	65 ± 1	40 ± 1	10 ± 1
HVZ1000W	1000W	920 ± 2	33 ± 1	M6	980 ± 2	980 ± 2	65 ± 1	40 ± 1	10 ± 1

Derating Curve



Non-inductive Characteristics

HVZ 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
Resistance Tolerance	$\pm 1\%$ $\pm 5\%$ $\pm 10\%$, $\pm 0.5\%$ is available
Temperature Coefficient	100ppm/°C (Referenced to +25°C, R_{Δ} taken at +125°C and -55°C)
Load life	+125°C, 1000h $\Delta R \leq 0.5\%$
Insulate resistance	$\geq 1000\text{M}\Omega$
Encapsulation	High temperature silicone conformal
Overload	2.5 Rated 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	$30 \pm 3\text{mm}$