

High Voltage Resistors

HVZ Series

Non-Inductive, Resistance-high voltage, Anti-impulse, ideally suited for High Voltage circuit application

Features

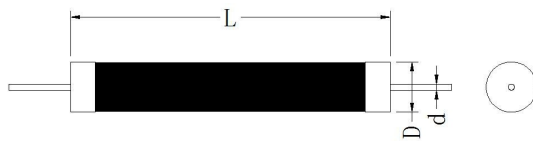
- Thick Film and Non-Inductive
- Wide Resistance Range
- High Power Capacity
- Good Wet and Heat Resistance
- Good Resistance to Electrical Impulses
- Stable and Reliable Performance



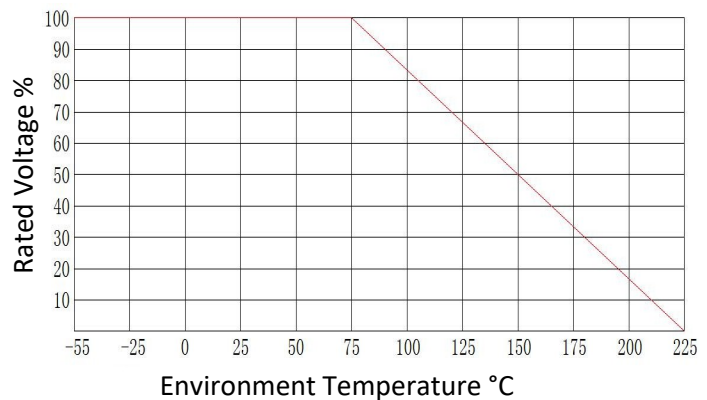
Technical Specifications

- Ceramic Core : $96\% \text{Al}_2\text{O}_3$
- Material of Film : Pulp of Ruthenium
- Resistance value : $1 \Omega \leq 1\text{G}\Omega$ (higher values on special request)
- Resistance tolerance : $\pm 0.5\%$ to $\pm 10\%$
- Temperature coefficient : $\geq \pm 15 \text{ ppm}(25 \sim 105^\circ\text{C})$ ($100\text{K}\Omega \leq 1\text{M}\Omega$)
- Max. operating temperature : -55°C to $+225^\circ\text{C}$
- Coating : Silicone Resin

Dimension (Refer to Table1)



Derating Curve



High Voltage Products. High Voltage Experts.

Ver 1.0 (250422)

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Performance

Item	Inspection Method	Performance Requirement
Short time overload	500% rated power, but not over 150% max. continuous working voltage, for 5 sec.	$\Delta R \leq \pm 0.2\%R$
Service Life	At rated power for 1000hour	$\Delta R \leq \pm 0.5\%R$
Wet Resistance	40°C, RH≥95%, 56days	$\Delta R \leq \pm 0.25\%R$
Thermal Shock	-55~155°C, 5cycles	$\Delta R \leq \pm 0.4\%R$

Products Specification (Table1)

Model	Rated Power (W)	Dimensions(mm)			Max Voltage (kV)
		L±0.5	D±0.5	d±0.1	
HVZ20	2.5	20	8	1.0	4.8
HVZ26	3.7	27	8	1.0	6.4
HVZ32	4.5	33	8	1.0	8.0
HVZ39	5.2	39	8	1.0	13
HVZ52	7.5	52	8	1.0	16
HVZ78	11	78	8	1.0	24
HVZ103	12.5	103	8	1.0	32
HVZ124	15	124	8	1.0	40
HVZ154	20	154	8	1.0	48

Note : Rated Continuous Working Voltage = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$ or Max Working Voltage listed above
(The lower of the two values)

How to Order

Model	Rated Power	Nominal Resistance	Tolerance	TCR
HVZ20	2.5W	30K	J	±100 ppm

Note: B: ±0.1%, C: ±0.25%, D: ±0.5%, F: ±1%, G: ±2%, J: ±5%, K: ±10%, M: ±15%, p: ±20%.



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