

Type HVR Series

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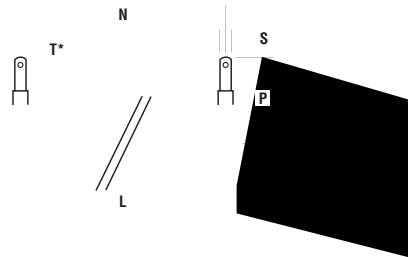


The Type HVR Series is a high voltage resistor designed for applications requiring high power dissipation and high voltage ratings. It is available in various power ratings from 5W to 100W and voltage ratings from 50V to 50kV. The resistor is constructed from a high purity ceramic material, providing excellent thermal stability and high resistance to environmental factors. It is designed to be mounted on a printed circuit board (PCB) using a standard through-hole mounting technique. The resistor is available in two types: Type HVR10 and Type HVR20. The Type HVR10 is a standard resistor with a power rating of 5W to 100W and a voltage rating of 50V to 50kV. The Type HVR20 is a high voltage resistor with a power rating of 5W to 100W and a voltage rating of 50V to 50kV. The resistor is designed to be used in a variety of applications, including power supplies, motor drives, and industrial heating systems. The resistor is designed to be used in a variety of environments, including high temperature, high humidity, and high vibration environments. The resistor is designed to be used in a variety of applications, including power supplies, motor drives, and industrial heating systems. The resistor is designed to be used in a variety of environments, including high temperature, high humidity, and high vibration environments.

Characteristics - Electrical

	HVR10	HVR20	HVR30	HVR50
Ohmic Value Min (Ω):	2.0	2.0	2.0	2.0
Max:	1.0	1.0	1.0	1.0
Resistance Tolerance - Standard (%):	10%	10%	10%	10%
Operation ($R < 400M$):	5%, 1%	5%, 1%	5%, 1%	5%, 1%
Power Dissipation at 20°C (W):	5	15	25	50
At 70°C:	3	10	15	25
In Oil at 20°C:	10	30	50	100
Continuous Operating Voltage Max (V):	10	20	30	50
Temperature Coefficient of Resistance				
20°C to 70°C (ppm/°C):	300, $\pm 1\%$	300, $\pm 1\%$	300, $\pm 1\%$	300, $\pm 1\%$
Voltage Coefficient of Resistance - $V > 100V$ (%):	2%	2%	2%	2%
Stability ΔR - 1000h Load Life (%):	2%	2%	2%	2%

Dimensions
Style B



Style C

Key Features

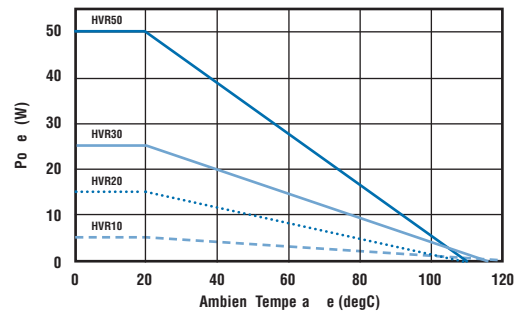
- High Voltage Power Resistor
 - 2k Ω to 1G Ω and a range of mounting options
- 50 kV Continuous Operating Voltage
 - Unique specification for the most demanding application
- Low Inductance and Capacitance
 - For high frequency application in the MHz range
- Enhanced Power
 - High stability in high power applications

Application

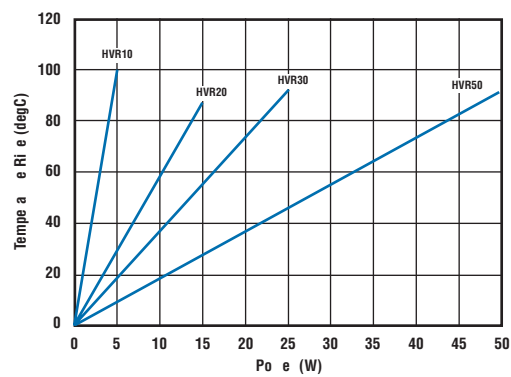
- High Frequency Switching (MHz)
- Balancing
- Voltage Divider
- High Voltage

Type HVR Series

Derating Curve



Surface Temperature Rise



How to Order

HVR	10	B	2K	J
Common Package	Voltage Rating	Terminal Style	Resistance Value	Tolerance
	10 - 10 20 - 20 30 - 30 50 - 50		2 Ω (2000Ω) 2 1 Ω (1 10 ³ Ω) 1 0 1 Ω (1 10 ³ Ω) 1 0	