

Type HVR Series

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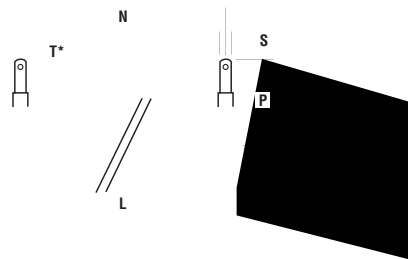


The Tyco Electronics HVR Series is a high voltage resistor designed for high power and high voltage applications. It is available in a variety of power ratings from 50W to 100W and voltage ratings from 50V to 100V. The HVR Series is designed to provide high reliability and long life in demanding environments. It is suitable for use in high voltage power supplies, industrial heating elements, and other high voltage applications. The HVR Series is available in a variety of resistance values from 2kΩ to 1GΩ. It is designed to provide high power and high voltage performance in a compact, rugged package. The HVR Series is suitable for use in high voltage power supplies, industrial heating elements, and other high voltage applications. It is designed to provide high reliability and long life in demanding environments. The HVR Series is available in a variety of resistance values from 2kΩ to 1GΩ. It is designed to provide high power and high voltage performance in a compact, rugged package.

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%
Option (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%

Dimension
Style B



Style C

Key Features

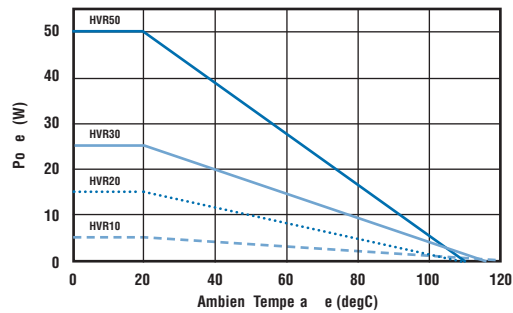
- High Voltage Power Resistor
 - 2kΩ to 1GΩ and a range of mounting options
- 50 kV Continuous Operating Voltage
 - Unique specification for the most demanding application
- Low Inductance and Capacitance
 - For high frequency application in the MHz range
- Enhanced Power
 - High stability in high power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

Application

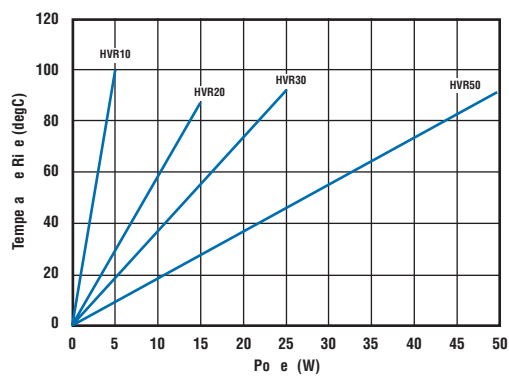
- High Frequency Switching (MHz)
- Balancing
- Voltage Divider
- High Voltage

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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	- 1% - 2% - 3% - 5% - 10%