

Type HVR Series

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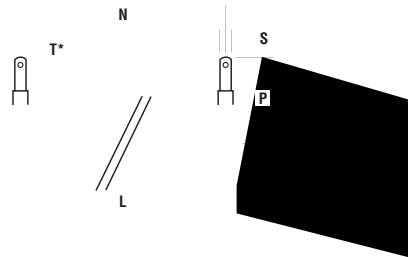


The Tyco Electronics HVR series is a high voltage resistor designed for high power and high voltage applications. It is available in a variety of power ratings from 5W to 100W and voltage ratings from 50V to 50kV. The HVR series is designed to provide high reliability and long life in demanding environments. It is suitable for use in a wide range of applications, including power supplies, motor drives, and industrial heating. The HVR series is available in a variety of packages, including through-hole and surface mount. The HVR series is designed to provide high reliability and long life in demanding environments. It is suitable for use in a wide range of applications, including power supplies, motor drives, and industrial heating. The HVR series is available in a variety of packages, including through-hole and surface mount.

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%

Dimensions
Style B



Style C

Key Features

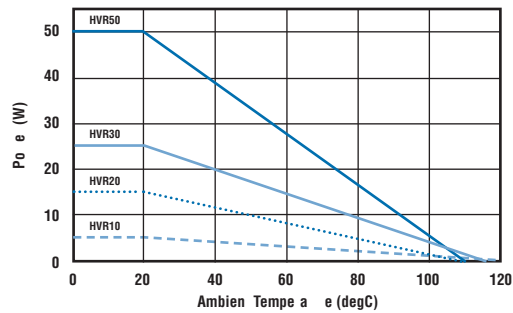
- High Voltage and Power
Resistance values from
2k Ω to 1G Ω and a range
of mounting options
- 50 kV Continuous
Operating Voltage
Unique specification for
the most demanding
application
- Low Inductance and
Capacitance
For high frequency
application in the
MHz range
- Enhanced Power
High reliability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

Application

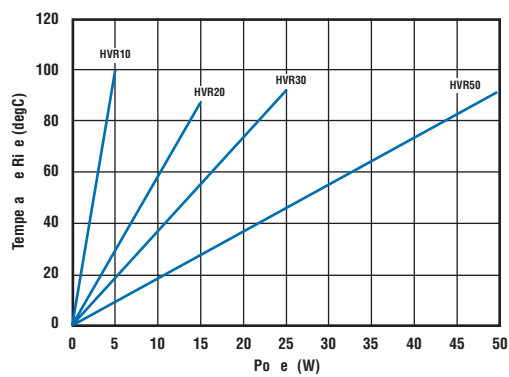
- High Frequency Switching
(MHz)
- Balancing
- Voltage Divider
- High Voltage

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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%