HVR Series

High Voltage / Thick Film Leaded Resistors

- **Resistances from 1M to 10TOhms**
- **Power Rating 1 to 3Watts**
- **Resistance Tolerances to ± 0.25%**
- **TCR's to ±25ppm/°C**
- **Non-Magnetic**
- **High Value Thick Film Resistance Element**

SPECIFICATIONS

Type	HVR 25	HVR 30	HVR 40	HVR 50
Power Rating (W)[1]	1.0	1.0	1.2	3.0
Working Voltage (VAC)	15KV	10KV	20KV	30KV
Resistance Range Parts are not labeled (Ω)	Tolerances Available (%) Temperature Coefficients Available (± ppm/°C) [2] Voltage Coefficient (ppm / V) [3] Typical Values			
1M - 100M	0.25% to 10% 25 / 50 / 100 1ppm/V	0.25% to 10% 25 / 50 / 100 2ppm/V	0.25% to 10% 25 / 50 / 100 1ppm/V	0.25% to 10% 25 / 50 / 100 1ppm/V
>100M - 1G	1% to 20% 50 / 100 / 250 2ppm/V	1% to 20% 50 / 100 / 250 5ppm/V	1% to 20% 50 / 100 / 250 2ppm/V	1% to 20% 25 / 50 / 100 1ppm/V
>1G - 100G	5% to 30% 250 / 500 10ppm/V	5% to 30% 250 / 500 20ppm/V	5% to 30% 250 / 500 10ppm/V	5% to 30% 100 / 250 5ppm/V
>100G - 1T	5% to 30% 500 / 1000 50ppm/V	5% to 30% 500 / 1000 100ppm/V	5% to 30% 500 / 1000 50ppm/V	5% to 30% 250 / 500 25ppm/V
>1T - 10T	-	-	-	10% to 30% 500 / 1000 100ppm/V

[1] W @ 70 °C / 0W @ 125 °C | [2] 25 / 50 PPM : +25°C to +85°C | [3] measured between 10 and 100V

Ordering Information

Part Description: Part Type - Resistance - Tolerance - TCR
Example: HVR30 10GOhm 10% 250ppm

(Note: if no TCR is specified, the highest value will be supplied. Individual parts are not labeled.)

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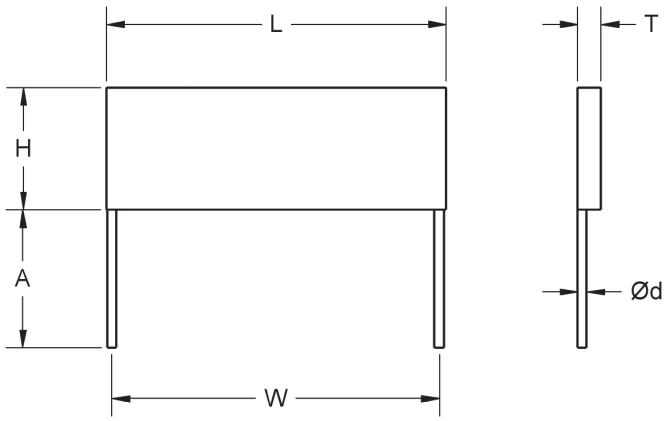
High Voltage / Thick Film Leaded Resistors

SPECIFICATIONS (continued)

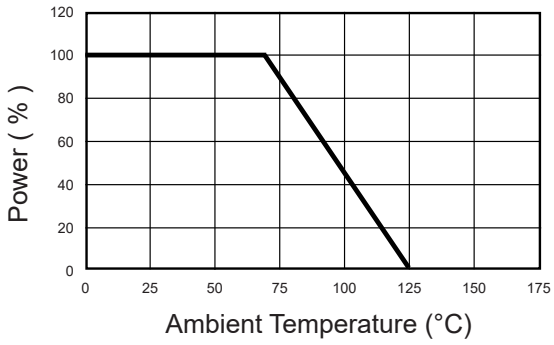
Specification	Value	
Temperature Range	-55°C to +125°C	
Climactic Cetegory	55 / 125 / 56	
Long Term Stability	Max ΔR	
	≤10 GΩ	>10 GΩ
Storage 125°C / 1000h	±1%	±2%
Maximum Voltage / 1000h	±1%	±2%



Type	Dimensions					
	L ±0.020 [±0.5]	**H** ±0.020 [±0.5]	**T** ±0.020 [±0.5]	**W** ±0.020 [±0.5]	**A** ±0.020 [±0.5]	**d** ±0.002 [±0.05]
HVR 25	0.99 [25.0]	0.35 [9.0]	0.055 [1.4]	0.90 [22.9]	0.79 [20]	0.016 [0.4]
HVR 30	0.787 [30.0]	0.236 [6.0]	0.055 [1.4]	1.083 [27.5]	0.79 [20]	0.016 [0.4]
HVR 40	1.574 [40.0]	0.236 [6.0]	0.055 [1.4]	1.488 [37.8]	0.79 [20]	0.016 [0.4]
HVR 50	1.968 [50.0]	0.492 [12.5]	0.055 [1.4]	1.882 [47.8]	0.79 [20]	0.016 [0.4]

Note: Do not use Acetone or Methylene Chloride for cleaning as they destroy coating. Parts are supplied unmarked.

Power Derating Curve



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