

HVR Series

High Voltage / Thick Film Leaded Resistors



- Resistances from 1M to 10TOhms
- Power Rating 1 to 3Watts
- Resistance Tolerances to $\pm 0.25\%$
- TCR's to $\pm 25\text{ppm}/^\circ\text{C}$
- 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 (Ω)	Tolerances Available (%) Temperature Coefficients Available ($\pm \text{ppm}/^\circ\text{C}$) 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

¹W @ 70 °C / 0W @ 125 °C

²25 / 50 PPM : +25°C to +85°C

³ measured between 10 and 100V

Labeling on parts available upon request

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

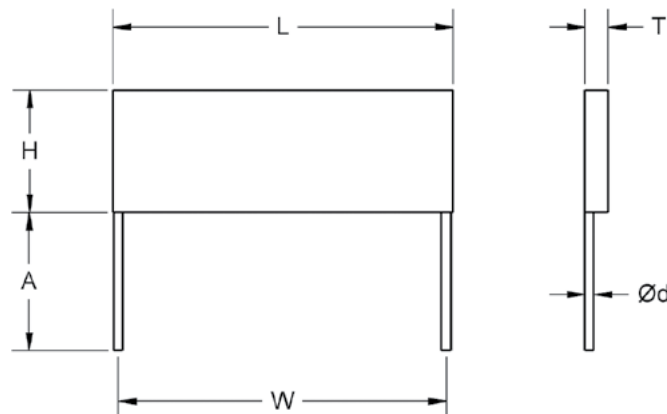
HVR Series

High Voltage / Thick Film Leded Resistors



SPECIFICATIONS (continued)

Specification	Value	
Temperature Range	-55°C to +125°C	
Climactic Categy	55 / 125 / 56	
Long Term Stability	Max ΔR	
	$\leq 10 \text{ G}\Omega$	$> 10 \text{ G}\Omega$
Storage 125°C / 1000h	$\pm 1\%$	$\pm 2\%$
Maximum Voltage / 1000h	$\pm 1\%$	$\pm 2\%$



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]

Ordering Information

Part Description: Part Type - Resistance - Tolerance - TCR

Example: HVR 30 10GOhm 10% 250ppm

(Note: if no TCR is specified, the highest value will be supplied)

Power Derating Curve

