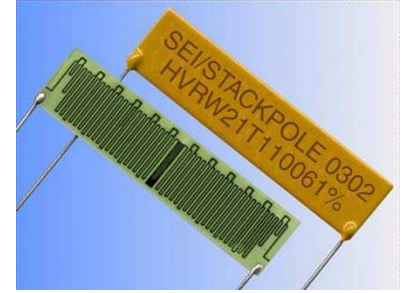


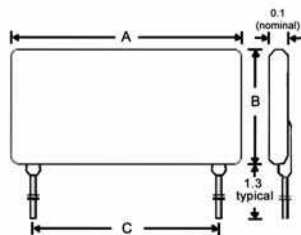
# HVR Series

## High Voltage Radial Leaded Plate Resistor

- Features:
- Ohmic values available up to 4,000G
  - Voltage ratings to 40,000 volts
  - Ultra-high stability
  - Tight tolerances to 0.1%
  - Low VCR to 0.05ppm/volt
  - Very low noise
  - Custom solutions available



Electrical Specifications								
Case Size	Power Rating (Watts) @ 25°C	Maximum Voltage Rating (kv)	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance				
				0.10%	0.25%	0.50%	1%	2%, 5%, 10%, 20%
HVR(W)39	0.5W	2KV	±25ppm/°C ±50ppm/°C ±100ppm/°C ±200ppm/°C	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 100M 100K - 1G 100K - 10G 100K - 10G	1M - 100M 100K - 1G 100K - 10G 100M - 50G	1M - 100M 100K - 1G 100K - 50G 100M - 50G
HVR(W)29	0.5W	4KV	±25ppm/°C ±50ppm/°C ±100ppm/°C ±200ppm/°C	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 100M 100K - 1G 100K - 10G 100K - 10G	1M - 100M 100K - 1G 100K - 10G 100M - 50G	1M - 100M 100K - 1G 100K - 50G 100M - 50G
HVR(W)21	1W	10KV	±25ppm/°C ±50ppm/°C ±100ppm/°C ±200ppm/°C	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 500M 100K - 500M 100K - 500M 100K - 100M	1M - 500M 100K - 10G 100K - 10G 100M - 10G	1M - 500M 100K - 10G 100K - 50G 100M - 50G	1M - 500M 100K - 10G 100K - 50G 100M - 50G
HVR(W)42	2W	20KV	±25ppm/°C ±50ppm/°C ±100ppm/°C ±200ppm/°C	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 500M 100K - 500M 100K - 500M 100K - 100M	1M - 500M 100K - 10G 100K - 10G 100M - 10G	1M - 500M 100K - 10G 100K - 50G 100M - 50G	1M - 500M 100K - 10G 100K - 50G 100M - 50G
HVR(W)43	3W	30KV	±25ppm/°C ±50ppm/°C ±100ppm/°C ±200ppm/°C	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 500M 100K - 500M 100K - 500M 100K - 100M	1M - 500M 100K - 10G 100K - 10G 100M - 10G	1M - 500M 100K - 10G 100K - 50G 100M - 50G	1M - 500M 100K - 10G 100K - 50G 100M - 50G
HVR(W)56	6W	40KV	±25ppm/°C ±50ppm/°C ±100ppm/°C ±200ppm/°C	1M - 100M 100K - 100M 100K - 100M 100K - 100M	1M - 500M 100K - 500M 100K - 500M 100K - 100M	1M - 500M 100K - 10G 100K - 10G 100M - 10G	1M - 500M 100K - 10G 100K - 50G 100M - 50G	1M - 500M 100K - 10G 100K - 50G 100M - 50G



Mechanical Specifications				
Size	A	B	C	Unit
HVR(W)39	0.3 + 0.08/-0.03 7.62 + 2.032/-0.762	0.4 ± 0.03 10.16 ± 0.762	0.2 5.08	inches mm
HVR(W)29	0.5 + 0.08/-0.03 12.7 + 2.032/-0.762	0.375 ± 0.03 9.525 ± 0.762	0.4 10.16	inches mm
HVR(W)21	1 + 0.08/-0.03 25.4 + 2.032/-0.762	0.375 ± 0.03 9.525 ± 0.762	0.9 22.86	inches mm
HVR(W)42	2 + 0.08/-0.03 50.8 + 2.032/-0.762	0.5 ± 0.03 12.7 ± 0.762	1.9 48.26	inches mm
HVR(W)43	3 + 0.08/-0.03 76.2 + 2.032/-0.762	0.5 ± 0.03 12.7 ± 0.762	2.9 73.66	inches mm
HVR(W)56	4 + 0.08/-0.03 101.6 + 2.032/-0.762	0.75 ± 0.03 19.05 ± 0.762	3.9 99.06	inches mm

**How to Order**

1	2	3	4	5	6	7	8	9	10	11	12	
<b>H</b>	<b>V</b>	<b>R</b>	<b>W</b>	<b>4</b>	<b>2</b>	<b>F</b>	<b>E</b>	<b>5</b>	<b>0</b>	<b>M</b>	<b>0</b>	
<b>Product Series</b>		<b>Lead Style</b>		<b>Size</b>		<b>Power</b>		<b>Tolerance</b>		<b>TCR</b>		<b>Resistance Value</b>
HVR	High Voltage Radial Leaded Plate Resistor		W	39	0.5W	Code	Tol	Code	ppm	Four characters with the multiplier used as the decimal holder. 30 Mohm = 30M0 100 Mohm = 100M 2 Gohm = 2G00		
				29	0.5W	B	0.1%	E	25			
				21	1W	C	0.25%	C	50			
				42	2W	D	0.5%	D	100			
				43	3W	F	1%	L	200			
				56	6W	G	2%					
						J	5%					
						K	10%					
						M	20%					

Legacy Part Number (before January 3, 2011):

<b>SEI Type</b>	<b>Lead Style</b>	<b>Case Size</b>	<b>TCR Rating (1)</b>	<b>Nominal Resistance</b>	<b>Tolerance (2)</b>
<b>HVR</b>	<b>W</b>	<b>42</b>	<b>T9</b>	<b>50M</b>	<b>1%</b>
<b>Type</b>	<b>Lead Style</b>	<b>Case Size</b>	<b>TCR Rating</b>		<b>Ratio Tolerance</b>
HVR	W	39	T9		±0.1%
		29	T2		±0.25%
		21	T1		±0.5%
		42	T0		±1%
		43			±2%
		56			±5%
					±10%
					±20%

Note (1): TCR is measured from 25°C to 75°C  
Note (2): Tolerance is dependent on case size and value