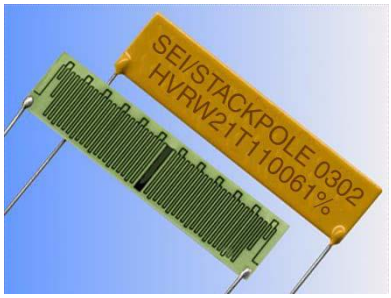
Features:

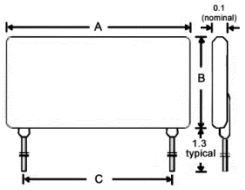
- Ohmic values available up to 50G
- Voltage ratings to 40K volts
- Ultra-high stability
- Tight tolerances to 0.1%
- Low VCR to 0.05 ppm/volt
- Very low noise
- Custom solutions available
- RoHS compliant, REACH compliant, and halogen free



Electrical Specifications

Case Size	Power Rating (W) @ 75ºC	Maximum Voltage Rating (KV)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance				
				0.1%	0.25%	0.5%	1%	2%, 5%, 10%, 20%
HVR(W)39	0.5	2	±25	1M - 100M	1M - 100M	1M - 100M	1M - 100M	1M - 100M
			±50	100K - 100M	100K - 100M	100K - 1G	100K - 1G	100K - 1G
			±100	100K - 100M	100K - 100M	100K - 10G	100K - 10G	100K - 50G
			±200	100K - 100M	100K - 100M	100K - 10G	100M - 50G	100M - 50G
HVR(W)29	0.5	4	±25	1M - 100M	1M - 100M	1M - 100M	1M - 100M	1M - 100M
			±50	100K - 100M	100K - 100M	100K - 1G	100K - 1G	100K - 1G
			±100	100K - 100M	100K - 100M	100K - 10G	100K - 10G	100K - 50G
			±200	100K - 100M	100K - 100M	100K - 10G	100M - 50G	100M - 50G
HVR(W)21	1	10	±25	1M - 100M	1M - 500M	1M - 500M	1M - 500M	1M - 500M
			±50	100K - 100M	100K - 500M	100K - 10G	100K - 10G	100K - 10G
			±100	100K - 100M	100K - 500M	100K - 10G	100K - 50G	100K - 50G
			±200	100K - 100M	100K - 100M	100M - 10G	100M - 50G	100M - 50G
HVR(W)42	2	20	±25	1M - 100M	1M - 500M	1M - 500M	1M - 500M	1M - 500M
			±50	100K - 100M	100K - 500M	100K - 10G	100K - 10G	100K - 10G
			±100	100K - 100M	100K - 500M	100K - 10G	100K - 50G	100K - 50G
			±200	100K - 100M	100K - 100M	100M - 10G	100M - 50G	100M - 50G
HVR(W)43	3	30	±25	1M - 100M	1M - 500M	1M - 500M	1M - 500M	1M - 500M
			±50	100K - 100M	100K - 500M	100K - 10G	100K - 10G	100K - 10G
			±100	100K - 100M	100K - 500M	100K - 10G	100K - 50G	100K - 50G
			±200	100K - 100M	100K - 100M	100M - 10G	100M - 50G	100M - 50G
HVR(W)56	6	40	±25	1M - 100M	1M - 500M	1M - 500M	1M - 500M	1M - 500M
			±50	100K - 100M	100K - 500M	100K - 10G	100K - 10G	100K - 10G
			±100	100K - 100M	100K - 500M	100K - 10G	100K - 50G	100K - 50G
			±200	100K - 100M	100K - 100M	100M - 10G	100M - 50G	100M - 50G

Mechanical Specifications

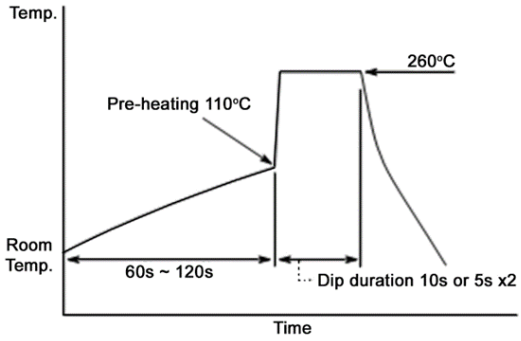


Size	A	B	C	Unit
HVR(W)39	0.300 ± 0.080 7.62 ± 2.03	0.400 ± 0.030 10.16 ± 0.76	0.200 5.08	inches mm
HVR(W)29	0.500 ± 0.080 12.70 ± 2.03	0.375 ± 0.030 9.53 ± 0.76	0.400 10.16	inches mm
HVR(W)21	1.000 ± 0.080 25.40 ± 2.03	0.375 ± 0.030 9.53 ± 0.76	0.900 22.86	inches mm
HVR(W)42	2.000 ± 0.080 50.80 ± 2.03	0.500 ± 0.030 12.70 ± 0.76	1.900 48.26	inches mm
HVR(W)43	3.000 ± 0.080 76.20 ± 2.03	0.500 ± 0.030 12.70 ± 0.76	2.900 73.66	inches mm
HVR(W)56	4.000 ± 0.080 101.60 ± 2.03	0.750 ± 0.030 19.05 ± 0.76	3.900 99.06	inches mm

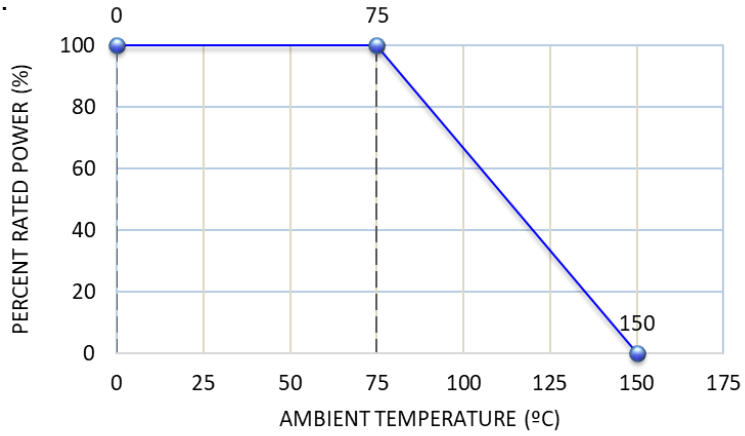
Recommended Soldering Condition

Flow Soldering:
- Pre-heating: 110°C MAX
- Peak temperature/duration: 260°C within 10 seconds (1st, 2nd wave total)
- Temperature profile (see chart on the right)

Iron Soldering:
- 380°C, 5 seconds, once/terminal



Power Derating Curve:



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status

Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
HVR	High Voltage Radial Leaded Plate Resistor	Radial Special	YES(1)	100% Matte Sn	Always	Always

Note (1): RoHS Compliant by means of exemption 7c-I.

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order

H	V	R	W	4	2	F	E	5	0	M	0

Product Series

Code	Description
HVR	High Voltage Radial Leaded Plate Resistor

Lead Style

Code	Description
W	100% matte Sn lead

Power Rating

Code	W
39	0.5
29	0.5
21	1
42	2
43	3
56	6

Tolerance

Code	Tol
B	0.1%
C	0.25%
D	0.5%
F	1%
G	2%
J	5%
K	10%
M	20%

TCR

Code	ppm
E	25
C	50
D	100
L	200

Resistance Value

Four characters with the multiplier used as the decimal holder.

30 Mohm = 30M0
100 Mohm = 100M
2 Gohm = 2G00