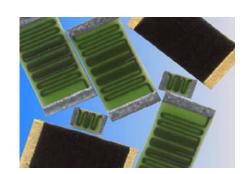
Features:

- Ohmic values to 50G
- Available with wire bondable terminations
- Tight tolerances to 0.1%
- Utilizes fine film resistor deposition technology
- Superior pulse handling capabilities
- Low TCR to 25 ppm/°C
- Low VCR to 1 ppm/volt
- Very low noise
- · Ultra high stability
- Custom sizes available
- Higher (up to 1Tohm) or lower resistance values may be available (contact Stackpole)
- Standard HVC parts are unmarked
- RoHS compliant and halogen free



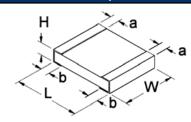
Electrical Specifications												
Type / Code	Power Rating (W) @ 70°C	Maximum Working Voltage (V)	TCR	Ohmic Range (Ω) and Tolerance								
				(ppm/ºC)	0.1%	0.25%	0.5%	1%	2%	5%	10%	20%
			±50			10K - 100M 10K - 500M						
HVC0603	0.06	400	±100] .	-	10K - 10M	10K - 500M	10K - 1G		10K	- 1G	
			±200					TUK	- 10	10K - 10G	10K - 50G	
			±50]					10K - 500M			
HVC0805	0.2	600	±100		-	10K - 10M	10K	- 10		10K - 1G	10K - 1G	
			±200				TOR	10K		· 10G	10K - 50G	
		1500	±25	1M - 100M		1M - 100M						
HVC1206	0.33		±50	100K - 100M	100K - 100M	1 100K - 500M						
11001200			±100	10K - 100M	10K - 100M	10K - 500M	10K - 1G	10K - 1G				
			±200	1011 10011	1011 10011	1011 000111			10K - 10G		10K - 50G	
			±25	1M - 100M		•		1M - 100M				
HVC2010	1	2000	±50	100K - 100M	100K - 100M	11 111						
			±100	10K - 100M	10K - 100M 1	10K - 500M	10K - 1G	10K - 1G				
			±200						10K - 10G		10K - 50G	
			±25	1M - 100M				1M - 500M				
HVC2512	2	3000	±50	100K - 100M	100K - 500M		100K - 1G					
			±100	10K - 100M	10K - 500M	10K - 1G		10K - 10G)K - 10G		- 10G	
			±200							100K	- 50G	
	3	3500	±25	1M - 100M				1M - 500M				
HVC3512			±50	100K - 100M 100K - 500M	<u> </u>	100K - 1G						
			±100	10K - 100M	10K - 500M	10K - 1G		10K - 10G		100K - 10G		
			±200							100K	- 50G	

Proper terminal isolation is required to achieve the voltage ratings for each given size.

(1) The continuous maximum voltage applied cannot exceed the maximum power rating and is ohmic value dependent.

Note: Other case sizes and tolerances are available.

Mechanical Specifications

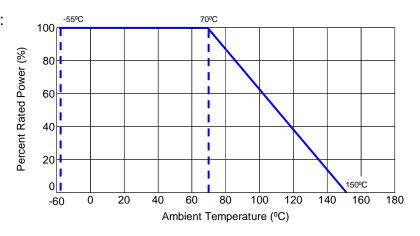


Type / Code	L	W	Н	а	b	Unit
Type / Code	Body Length	Body Width	Body Height (Max.)	Top Termination	Bottom Termination	Unit
HVC0603	0.063 ± 0.01	0.031 ± 0.005	0.020	0.010 ± 0.005	0.012 ± 0.008	inches
HVC0003	1.60 ± 0.25	0.79 ± 0.13	0.51	0.25 ± 0.13	0.30 ± 0.20	mm
HVC0805	0.079 ± 0.01	0.050 ± 0.005	0.025	0.010 ± 0.005	0.013 ± 0.008	inches
HVC0603	2.01 ± 0.25	1.27 ± 0.13	0.64	0.25 ± 0.13	0.33 ± 0.20	mm
HVC1206	0.126 ± 0.01	0.063 ± 0.005	0.030	0.010 ± 0.005	0.020 ± 0.010	inches
HVC1200	3.20 ± 0.25	1.60 ± 0.13	0.76	0.25 ± 0.13	0.51 ± 0.25	mm
HVC2010	0.200 ± 0.01	0.100 ± 0.005	0.030	0.018 ± 0.010	0.020 ± 0.010	inches
HVC2010	5.08 ± 0.25	2.54 ± 0.13	0.76	0.46 ± 0.25	0.51 ± 0.25	mm
HVC2512	0.250 ± 0.01	0.125 ± 0.005	0.030	0.020 ± 0.010	0.024 ± 0.010	inches
HVC2312	6.35 ± 0.25	3.18 ± 0.13	0.76	0.51 ± 0.25	0.61 ± 0.25	mm
HVC3512	0.350 ± 0.01	0.125 ± 0.005	0.030	0.020 ± 0.010	0.024 ± 0.010	inches
11003312	8.89 ± 0.25	3.18 ± 0.13	0.76	0.51 ± 0.25	0.61 ± 0.25	mm

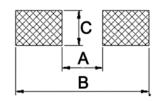
Performance Characteristics					
Test	Typical Performance				
Short Time Overload	0.1%				
Load Life	0.1%				
Temperature Cycle	0.1%				
Moisture Resistance	0.1%				
Shock	0.05%				
Vibration	0.05%				
Dielectric Withstanding Voltage	0.05%				
Resistance to Soldering Heat	0.05%				

Parameter	Typical		
Operating Temperature	-55°C to 150°C		
TCR	measured from 25°C to 75°C		
Pulse Capability	10X rated wattage		
Fulse Capability	Consult Stackpole for custom pulse applications		
Resistance Value	Measured at 100V		
Resistance value	Consult Stackpole for custom test voltages		

Power Derating Curve:



Recommended Pad Layouts



Type / Code	A	В	С	Unit
HVC0603	0.031	0.083	0.035	inches
HVC0603	0.80	2.10	0.90	mm
HVC0805	0.047	0.118	0.051	inches
1100803	1.20	3.00	1.30	mm
HVC1206	0.087	0.165	0.063	inches
11001200	2.20	4.20	1.60	mm
HVC2010	0.138	0.240	0.110	inches
11002010	3.50	6.10	2.80	mm
HVC2512	0.150	0.315	0.138	inches
11002312	3.80	8.00	3.50	mm

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)	
HVC	High Voltage Thick Film Surface Mount Chip Resistor	SMD	YES(1)	100% Matte Sn ("T")	Always	Always	

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

Resistive Product Solutions

"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.

