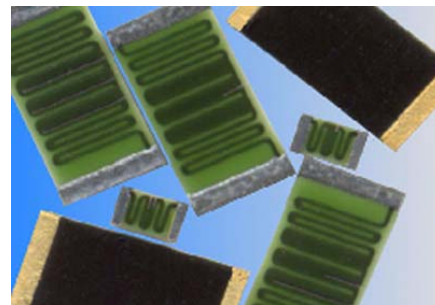


- Features:**
- Absolute voltage ratings up to 25,000 volts
 - Ohmic values to 50G
 - Available with wire bondable terminations
 - Tight tolerances to 0.5%
 - Utilizes fine film resistor deposition technology
 - Superior pulse handling capabilities
 - Low TCR to 25 ppm/°C
 - Low VCR to 1 ppm/volt
 - Very low noise
 - Ultra high stability
 - Custom sizes available
 - Standard HVC parts are unmarked
 - RoHS compliant / lead-free



Electrical Specifications										
Type	Package Type	Power Rating (3) (Watts) @ 70°C	Maximum Working Voltage (1)	Absolute Maximum Voltage (2)	Resistive Temperature Coefficient	Ohmic Range (Ω) and Tolerance				
						0.5%	1%	2%	5%	10%
HVC 0603	0603	0.100W	400V	5KV	± 50 ppm/°C	10K - 10M	10K - 10M	10K - 500M	10K - 500M	10K - 500M
					± 100 ppm/°C	10K - 10M	10K - 10M	10K - 1G	10K - 1G	10K - 1G
					± 200 ppm/°C	10K - 10M	10K - 10M	10K - 1G	10K - 1G	10K - 1G
					± 300 ppm/°C	10K - 10M	10K - 10M	10K - 1G	10K - 1G	10K - 1G
HVC 0805	0805	0.125W	600V	10KV	± 50 ppm/°C	10K - 10M	10K - 500M	10K - 500M	10K - 500M	10K - 500M
					± 100 ppm/°C	10K - 10M	10K - 1G	10K - 1G	10K - 1G	10K - 1G
					± 200 ppm/°C	10K - 10M	10K - 1G	10K - 1G	10K - 1G	10K - 10G
					± 300 ppm/°C	10K - 10M	10K - 1G	10K - 1G	10K - 1G	10K - 10G
HVC 1206	1206	0.250W	1000V	15KV	± 25 ppm/°C	1M - 100M	1M - 100M	1M - 100M	1M - 100M	1M - 100M
					± 50 ppm/°C	100K - 500M	100K - 500M	100K - 500M	100K - 500M	100K - 500M
					± 100 ppm/°C	100K - 500M	100K - 1G	100K - 1G	100K - 1G	100K - 1G
					± 200 ppm/°C	100K - 500M	100K - 1G	100K - 10G	100K - 10G	100K - 10G
HVC 2010	2010	0.500W	1,700V	20KV	± 25 ppm/°C	10M - 100M	10M - 100M	10M - 100M	10M - 100M	10M - 100M
					± 50 ppm/°C	100K - 500M	100K - 500M	100K - 500M	100K - 500M	100K - 500M
					± 100 ppm/°C	100K - 500M	100K - 1G	100K - 1G	100K - 1G	100K - 1G
					± 200 ppm/°C	100K - 500M	100K - 1G	100K - 10G	100K - 10G	100K - 10G
HVC 2512	2512	1.000W	2,500V	25KV	± 25 ppm/°C	1M - 500M	1M - 500M	1M - 500M	1M - 500M	1M - 500M
					± 50 ppm/°C	100K - 1G	100K - 1G	100K - 1G	100K - 1G	100K - 1G
					± 100 ppm/°C	10K - 1G	10K - 10G	10K - 10G	10K - 1G	100K - 50G
					± 200 ppm/°C	10K - 1G	10K - 10G	10K - 10G	10K - 10G	100K - 50G
HVC 3512	3512	1.000W	3,500V	40KV	± 25 ppm/°C	1M - 500M	1M - 500M	1M - 500M	1M - 500M	1M - 500M
					± 50 ppm/°C	100K - 1G	100K - 1G	100K - 1G	100K - 1G	100K - 1G
					± 100 ppm/°C	10K - 1G	10K - 10G	10K - 10G	10K - 1G	100K - 50G
					± 200 ppm/°C	10K - 1G	10K - 10G	10K - 10G	10K - 10G	100K - 50G
					± 300 ppm/°C	10K - 1G	10K - 10G	10K - 10G	10K - 10G	100K - 50G

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

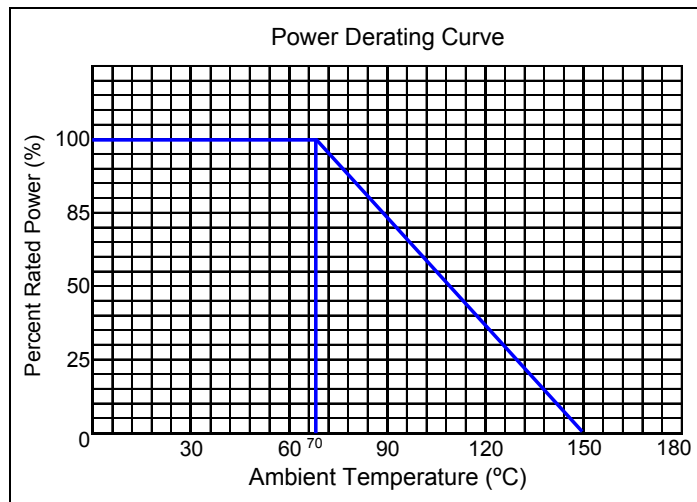
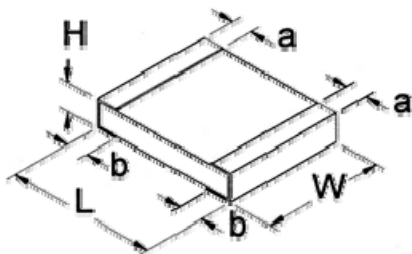
(2) To achieve, the terminals must be properly isolated from each other with appropriate potting material.

(3) Contact factory for higher power ratings: 0805: 0.2W 1206:0.33W 2010: 1W 2512: 2W

Note: Other case sizes and tolerances are available.

How to Order

SEI Type & Termination		Size	TCR	Nominal Resistance	Tolerance	Packaging			
HVCB		1206	T2	100M	5%	R			
Code	Termination		TCR		Tolerance	SEI Types	Pkg Qty	Description	Code
HVCG	Wire bondable (gold)		T0 = 200ppm		± 0.5%	0603, 0805	5,000	7" reel - Paper	R
HVCS	Solderable single surface		T1 = 100ppm		± 1%		10,000	10" reel - Paper	G
HVCB	100% matte tin		T2 = 50ppm		± 2%		1,000	Bulk	A
HVCZ	Solderable single surface matte tin		T9 = 25ppm		± 5%	1206, 2010, 2512	4,000	7" reel - Emboss	R
					± 10%	2512	1,000	7" reel - Paper	I



Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Units
HVC 0603	0.063 ± 0.01/-0.005 1.6 ± 0.25/-0.13	0.031 ± 0.005 0.8 ± 0.13	0.02 0.5	0.01 ± 0.01/-0.005 0.25 ± 0.25/-0.13	0.01 ± 0.01/-0.005 0.25 ± 0.25/-0.13	inches mm
HVC 0805	0.079 ± 0.01/-0.005 2 ± 0.25/-0.13	0.05 ± 0.005 1.25 ± 0.13	0.025 0.64	0.01 ± 0.01/-0.005 0.25 ± 0.25/-0.13	0.01 ± 0.01/-0.005 0.25 ± 0.25/-0.13	inches mm
HVC 1206	0.126 ± 0.01/-0.005 3.2 ± 0.25/0.13	0.061 ± 0.007 1.5 ± 0.18	0.03 0.76	0.015 ± 0.01/-0.005 0.38 ± 0.25/-0.13	0.015 ± 0.01/-0.005 0.38 ± 0.25/-0.13	inches mm
HVC 2010	0.2 ± 0.01/-0.005 5.08 ± 0.25/-0.13	0.100 ± 0.005 2.54 ± 0.13	0.03 0.76	0.02 ± 0.01/-0.005 0.51 ± 0.25/-0.13	0.02 ± 0.01/-0.005 0.51 ± 0.25/-0.13	inches mm
HVC 2512	0.25 ± 0.01/-0.005 6.35 ± 0.25/-0.13	0.125 ± 0.005 3.18 ± 0.13	0.03 0.76	0.02 ± 0.01/-0.005 0.51 ± 0.25/-0.13	0.02 ± 0.01/-0.005 0.51 ± 0.25/-0.13	inches mm
HVC 3512	0.35 ± 0.01/-0.005 8.89 ± 0.25/-0.13	0.125 ± 0.005 3.18 ± 0.13	0.03 0.76	0.02 ± 0.01/-0.005 0.51 ± 0.25/-0.13	0.02 ± 0.01/-0.005 0.51 ± 0.25/-0.13	inches mm

Performance Characteristics		
Test	Test Method	Acceptable Parameter
Load Life	MIL-STD-202G Method 108A Test Condition D	ΔR = 2%
Temperature Cycle (Thermal Shock)	MIL-STD-202G Method 107G Test Condition A	ΔR = 0.02%
Resistance to Soldering Heat	IPC/EIA J-STD-002A Paragraph 4.2.4	IPC/EIA J-STD-002A Paragraph 4.2.4.4
Solderability	IPC/EIA J-STD-002A Paragraph 4.2.2	IPC/EIA J-STD-002A Paragraph 4.2.2.4.2
Short Time Overload	MIL-PRF-55342H Pg. 32, Paragraph 4.8.6	MIL-PRF-55342H Pg 11, Paragraph 3.12

Operating Temperature Range: -55°C to +150°C