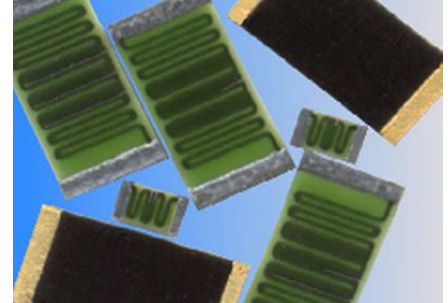


- Features:**
- Absolute voltage ratings up to 40,000 volts
  - Ohmic values to 50G
  - Available with wire bondable terminations
  - Tight tolerances to 0.1%
  - Utilizes fine film resistor deposition technology
  - Superior pulse handling capabilities
  - Low TCR to 25 ppm/°C
  - Low VCR to 1 ppm/volt
  - Very low noise
  - Ultra high stability
  - Custom sizes available
  - Higher or lower resistance values may be available (contact factory)
  - Standard HVC parts are unmarked
  - RoHS compliant



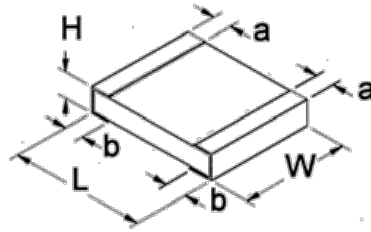
Electrical Specifications												
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Absolute Maximum Voltage (2)	Resistane Temperature Coefficient	Ohmic Range (Ω) and Tolerance							
					0.1%	0.25%	0.5%	1%	2%	5%	10%	20%
HVC0603	0.06W	400V	5KV	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	-		10K - 10M	10K - 100M	10K - 500M			
								10K - 500M	10K - 1G		10K - 1G	
									10K - 10G	10K - 50G		
HVC0805	0.2W	600V	10KV	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	-		10K - 10M	10K - 500M				
								10K - 1G	10K - 1G		10K - 1G	
									10K - 10G	10K - 50G		
HVC1206	0.33	1500V	15KV	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 10M	1M - 100M						
					100K - 10M	100K - 100M	100K - 500M					
					10K - 10M	10K - 100M	10K - 500M	10K - 1G	10K - 1G			
									10K - 10G	10K - 50G		
HVC2010	1W	2000V	20KV	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 10M	1M - 100M						
					100K - 10M	100K - 100M	100K - 500M					
					10K - 10M	10K - 100M	10K - 500M	10K - 1G	10K - 1G			
									10K - 10G	10K - 50G		
HVC2512	2W	3000V	25KV	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 100M	1M - 500M						
					100K - 100M	100K - 500M	100K - 1G					
					10K - 100M	10K - 500M	10K - 1G	10K - 10G			100K - 10G	
											100K - 50G	
HVC3512	3W	3500V	40KV	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1M - 100M	1M - 500M						
					100K - 100M	100K - 500M	100K - 1G					
					10K - 100M	10K - 500M	10K - 1G	10K - 10G			100K - 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.

Note: Other case sizes and tolerances are available.

**Mechanical Specifications**



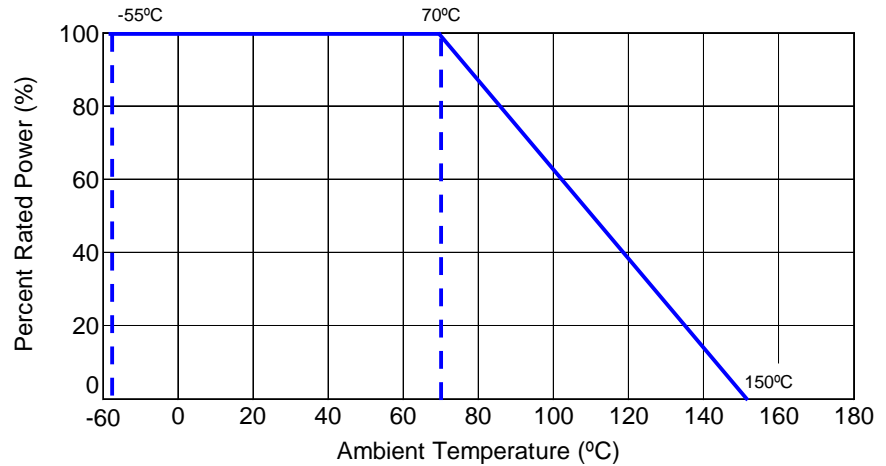
Type / Code	L Body Length	W Body Width	H Body Height (Max.)	a Top Termination	b Bottom Termination	Unit
HVC0603	0.063 ± 0.01	0.031 ± 0.005	0.020	0.010 ± 0.005	0.012 ± 0.008	inches
	1.60 ± 0.25	0.79 ± 0.13	0.51	0.25 ± 0.13	0.30 ± 0.20	mm
HVC0805	0.079 ± 0.01	0.050 ± 0.005	0.025	0.010 ± 0.005	0.013 ± 0.008	inches
	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
	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
	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
	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
	8.89 ± 0.25	3.18 ± 0.13	0.76	0.51 ± 0.25	0.61 ± 0.25	mm

**Performance Characteristics**

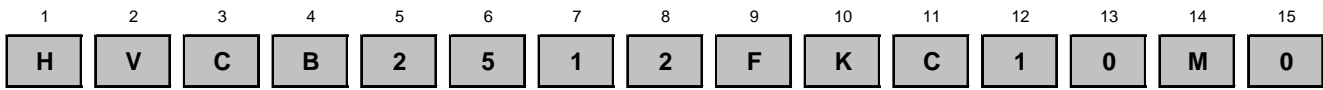
Test	Test Method	Acceptable Parameter
Load Life	MIL-STD-202G Method 108A Test Condition D	ΔR = 2%
Temperature Cycle (Thermal Shock)	MIL-STD-202G Method 107G Test Condition A	ΔR = 0.02%
Resistance to Soldering Heat	IPC/EIA J-STD-002A Paragraph 4.2.4	IPC/EIA J-STD-002A Paragraph 4.2.4.4
Solderability	IPC/EIA 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

Power Derating Curve:



**How to Order**



Product Series		Size	Power	Tolerance		Packaging				TCR		Resistance Value
Code	Description			Code	Tol	Code	Description	Size	Quantity	Code	ppm	
HVCB	Solderable wraparound (100% matte tin)	0603	0.06W	B	0.1%	T	7" Reel - Paper Tape	0603, 0805	5,000	E	25	Four characters with the multiplier used as the decimal holder. 10 Kohm = 10K0 1 Mohm = 1M00 10 Gohm = 10G0
		0805	0.2W	C	0.25%			1206, 2010	4,000	C	50	
HVCG	Wire bondable (gold)	1206	0.33W	D	0.5%	K	7" Reel - Plastic Tape	2512	2,000	D	100	
		2010	1W	F	1%			0603, 0805, 1206	1,000	L	200	
HVCS	Solderable single surface (Sn/Pb)	2512	2W	G	2%	D	7" Reel - Paper Tape	2010, 2512, 3512	500	M	300	
		3512	3W	J	5%			0603, 0805, 1206				
HVCZ	Solderable single surface (100% matte tin)			K	10%	B	Bulk	All Sizes	1,000			
				M	20%							