



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

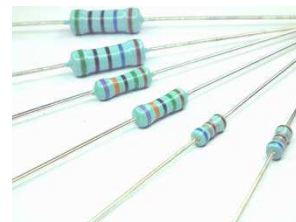
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- Features:
- High resistance for high voltage circuits
  - High voltage handling in small package size
  - More economical than comparable high voltage resistors
  - VCR less than 20 ppm/V
  - RoHS compliant



Electrical Specifications						
Type / Code	Power Rating (Watts)	Maximum Working Voltage	Resistance Temperature Coefficient	Ohmic Range ( $\Omega$ ) and Tolerance		
				1%	5%	10%
HVA05	0.5W	3500V	$\pm 200$ ppm/ $^{\circ}$ C	1M - 500M		
HVA08	0.8W	7000V		1M - 500M	1M - 1G	
HVA12	1.2W	8000V		1M - 500M	1M - 1G	

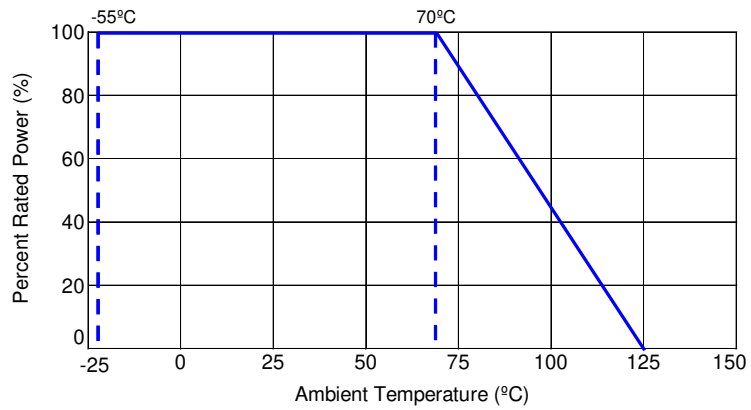
Rated voltage =  $\sqrt{\text{Power Rating} \times \text{Nominal Resistance}}$  or Maximum Working voltage, whichever is lower.

Mechanical Specifications					
Type / Code	Weight (mg)	L Body Length	D Body Diameter	d Lead Diameter	H Lead Length (bulk)
HVA05	210	0.236 $\pm$ 0.008 6.00 $\pm$ 0.20	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	0.022 $\pm$ 0.020 0.55 $\pm$ 0.50	1.102 $\pm$ 0.118 28.00 $\pm$ 3.00
HVA08	330	0.335 $\pm$ 0.039 8.50 $\pm$ 1.00	0.118 $\pm$ 0.020 3.00 $\pm$ 0.50	0.022 $\pm$ 0.020 0.55 $\pm$ 0.50	1.102 $\pm$ 0.118 28.00 $\pm$ 3.00
HVA12	570	0.433 $\pm$ 0.039 11.00 $\pm$ 1.00	0.157 $\pm$ 0.020 4.00 $\pm$ 0.50	0.022 $\pm$ 0.020 0.55 $\pm$ 0.50	1.102 $\pm$ 0.118 28.00 $\pm$ 3.00

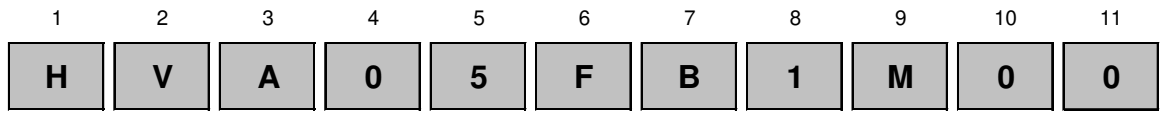
Performance Characteristics		
Item	Specification	Test Condition and Method
Temperature Coefficient of Resistance (ppm/ $^{\circ}$ C)	$\pm 200$ ppm/ $^{\circ}$ C	25 $^{\circ}$ C ~ 125 $^{\circ}$ C
Rapid Change of Temperature	$\pm 1\%$	-25 $^{\circ}$ C (30 m.)/+125 $^{\circ}$ C (30 m.) - 5 cycles
Damp Heat (steady state)	$\pm 5\%$	40 $\pm$ 2 $^{\circ}$ C 93 $\pm$ 3% R.H. 0.1 x Rated Voltage 90 m. ON, 30 m. OFF - 1000 hours
Endurance (at 70 $^{\circ}$ C)	$\pm 5\%$	Room temperature. Rated Voltage 90 m ON, 30 m. OFF - 1000 hours
Resistance to Soldering Heat	$\pm 1\%$	260 $\pm$ 5 $^{\circ}$ C, 10 $\pm$ 1 s.

Reference standards: JIS-C5201-1, IEC60115-1  
Operating Temperature Range: -25 $^{\circ}$ C to +125 $^{\circ}$ C

Power Derating Curve:



**How to Order**



Product Series		Size	Power Rating	Tolerance			Packaging				Resistance Value
Code	Description			Code	Tol	Value	Code	Description	Size	Quantity	
HVA	High voltage Axial Leaded Resistor	05	0.5W	F	1%	E24	A	Ammo	05, 08	2,000	Four characters with the multiplier used as the decimal holder. 1 Mohm = 1M00 50 Mohm = 50M0 1 Gohm = 1G00
		08	0.8W	J	5%		B	Bulk	12	1,000	
		12	1.2W	K	10%				all sizes	1,000	