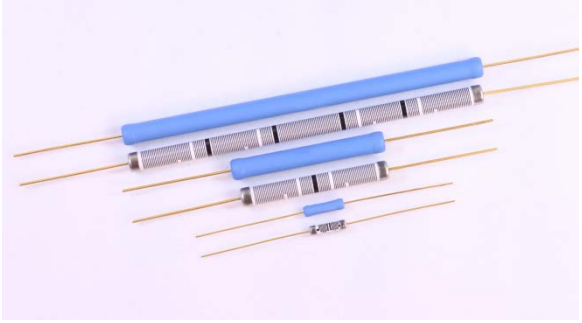
Features:

- Ultra-high stability
- Very low noise
- Voltage ratings to 50,000V
- Tolerances to 0.1%
- Resistance values to 10 Gigohms
- TCR to 50 ppm/ºC
- VCR to 0.1 ppm/V
- Non-inductive
- RoHS compliant and halogen-free

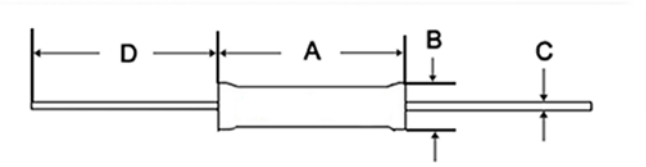


Electrical Specifications

Type/Code	Power Rating (Watts)	Maximum Working Voltage (*)	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
				0.1%	0.25%	0.5%, 1%, 2%, 5%, 10%, 20%
HVAM20	2W	15000V	±50 ppm/ºC ±100 ppm/ºC	500K - 100M	500K - 500M	500K - 2G
HVAM36	3.6W	15000V		500K - 100M	500K - 500M	500K - 2G
HVAM50	5W	20000V		500K - 100M	500K - 500M	500K - 4G
HVAM75	7.5W	30000V		500K - 100M	500K - 500M	500K - 6G
HVAM100	10W	50000V		500K - 100M	500K - 500M	500K - 10G

(*) Rated voltage = √Power Rating x Nominal Resistance or Maximum Working voltage, whichever is lower.
For parts below 500K ohms, consult factory.

Mechanical Specifications

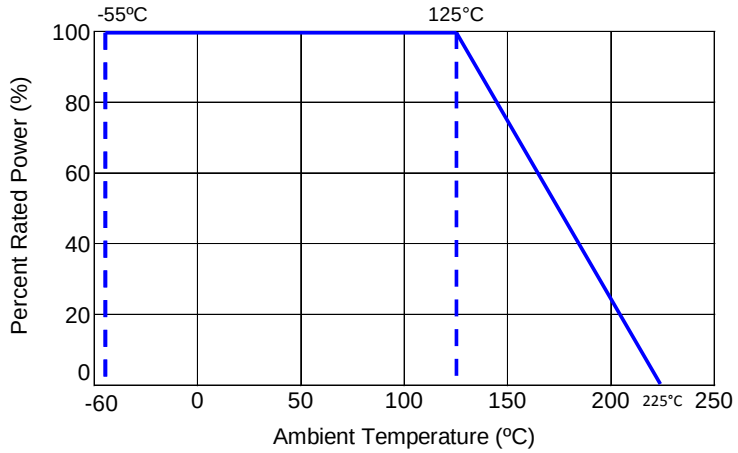


Type/Code	A Body Length	B Body Diameter	C Lead Diameter	D Lead Length	Unit
HVAM20	1.500 ± 0.030 38.10 ± 0.76	0.180 ± 0.015 4.57 ± 0.38	0.025 ± 0.020 0.64 ± 0.50	1.500 ± 0.125 38.10 ± 3.18	inches mm
HVAM36	1.500 ± 0.030 38.10 ± 0.76	0.310 ± 0.015 7.87 ± 0.38	0.040 ± 0.020 1.02 ± 0.50	1.500 ± 0.125 38.10 ± 3.18	inches mm
HVAM50	2.125 ± 0.030 53.98 ± 0.76	0.310 ± 0.015 7.87 ± 0.38	0.040 ± 0.020 1.02 ± 0.50	1.500 ± 0.125 38.10 ± 3.18	inches mm
HVAM75	3.125 ± 0.030 79.38 ± 0.76	0.310 ± 0.015 7.87 ± 0.38	0.040 ± 0.020 1.02 ± 0.50	1.500 ± 0.125 38.10 ± 3.18	inches mm
HVAM100	5.000 ± 0.030 127.00 ± 0.76	0.310 ± 0.015 7.87 ± 0.38	0.040 ± 0.020 1.02 ± 0.50	1.500 ± 0.125 38.10 ± 3.18	inches mm

Performance Characteristics	
Test	Test Specification
Short Term Overload/Overvoltage	ΔR 0.5% max.
Thermal Shock	ΔR 0.25% max.
Moisture Resistance	ΔR 0.4% max.
Load Life (1000 hours)	ΔR 0.5% max.
Insulation Resistance	10,000 Megohms min.

Operating Temperature Range: -55°C to 225°C
Temperature Coefficient: Measured from 25°C to 75°C

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 2). 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.

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)
HVAM	Precision High Voltage Leaded Resistor	Axial	YES	100% Matte Sn	Always	Always

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

1	2	3	4	5	6	7	8	9	10	11	12	13
H	**V**	**A**	**M**	**5**	**0**	**D**	**B**	**C**	**5**	**0**	**0**	**K**

Product Series	
HVAM	Precision High Voltage Leaded Resistor

Power Rating	
Size	Power
20	2W
36	3.6W
50	5W
75	7.5W
100	10W

Tolerance		
Code	Tol	Value
B	0.1%	E24 E96
C	0.25%	
D	0.5%	
F	1%	
G	2%	
J	5%	
K	10%	
M	20%	

Packaging			
Code	Description	Size	Quantity
B	Bulk	20, 36, 50	25
		75, 100	10

TCR	
Code	ppm/ºC
C	50
D	100

Resistance Value
Four characters with the multiplier used as the decimal holder.
500K = 500 K Ohm
1M00 = 10 Meg Ohm
100M = 100 Meg Ohm
1G00 = 1 Gig Ohm