

Features:

- High resistance for high voltage circuits
- High voltage handling in small package size
- Metal film technology
- More economical than comparable high voltage resistors
- VCR less than 20 ppm/V
- RoHS compliant, and REACH compliant

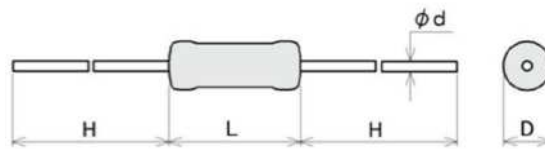


Electrical Specifications

Type/Code	Power Rating (W)	Maximum Working Voltage (V)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance		
				1%	5%	10%
HVA05	0.5	3500	± 200	1M - 500M		
HVA08	0.8	7000	± 200	1M - 500M	1M - 1G	
HVA12	1.2	8000	± 200	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	Typical Unit Wt. (mg)	L Body Length	D Body Diameter	d Lead Diameter	H Lead Length (bulk)	Unit
HVA05	210	0.236 ± 0.008 6.00 ± 0.20	0.098 ± 0.020 2.50 ± 0.50	0.022 ± 0.002 0.55 ± 0.05	1.102 ± 0.118 28.00 ± 3.00	inches mm
HVA08	330	0.354 ± 0.039 9.00 ± 1.00	0.118 ± 0.020 3.00 ± 0.50	0.022 ± 0.002 0.55 ± 0.05	1.102 ± 0.118 28.00 ± 3.00	inches mm
HVA12	570	0.433 ± 0.039 11.00 ± 1.00	0.157 ± 0.020 4.00 ± 0.50	0.022 ± 0.002 0.55 ± 0.05	1.102 ± 0.118 28.00 ± 3.00	inches mm

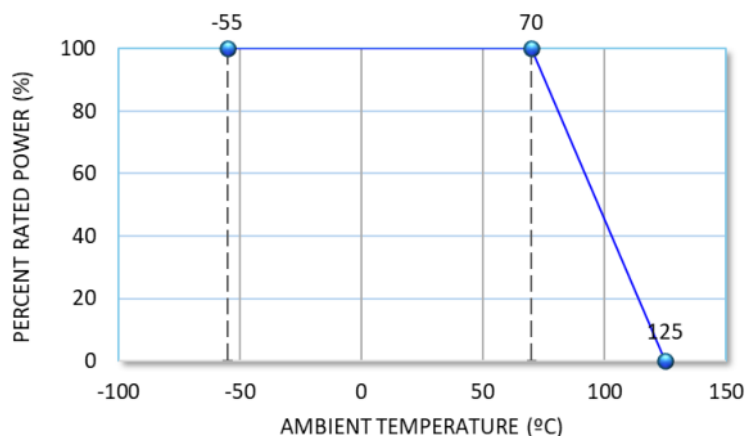
Performance Characteristics

Item	Specification	Test Condition and Method
Temperature Coefficient of Resistance (ppm/°C)	±200 ppm/°C	25 ~ 125°C
Rapid Change of Temperature	ΔR ±1%	-25°C (30 minutes) / +125°C (30 minutes) - 5 cycles
Damp Heat (steady state)	ΔR ±5%	40 ± 2°C 93 ± 3% R.H. 0.1 x Rated Voltage 90 minutes ON, 30 minutes OFF - 1000 hours
Endurance (at 70°C)	ΔR ±5%	Room temperature. Rated Voltage 90 minutes ON, 30 minutes OFF - 1000 hours
Resistance to Soldering Heat	ΔR ±1%	260 ± 5°C, 10 ± 1 seconds

Reference standards: JIS-C5201-1, IEC60115-1

Operating temperature range is -25 to +125°C

Power Derating Curve:



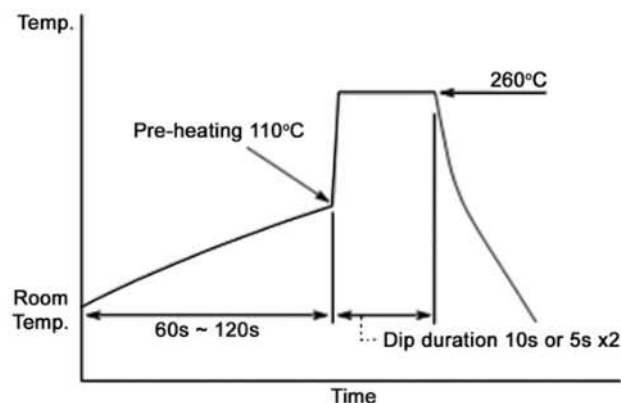
Recommended Resistor Reflow Profile

Flow Soldering:

- Pre-heating: 110°C MAX
- Peak temperature/duration: 260°C within 10 seconds (1st, 2nd wave total)
- Temperature profile (see chart on the right)

Iron Soldering:

- 380°C, 5 seconds, once/terminal



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
HVA	High Voltage Axial Leaded Resistor	Axial	YES ⁽¹⁾	100% Matte Sn

Note (1): RoHS compliant by means of exemption 7c-l.

“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

