



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

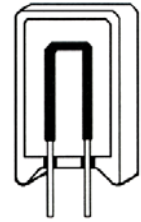
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



- Features:
- Flameproof inorganic construction
  - High temperature potting compound
  - LVM – Low resistance wire or ribbon element
  - NVM – Non-inductively Ayrton Perry winding
  - WVM – Precision wirewound element
  - RoHS compliant / lead-free

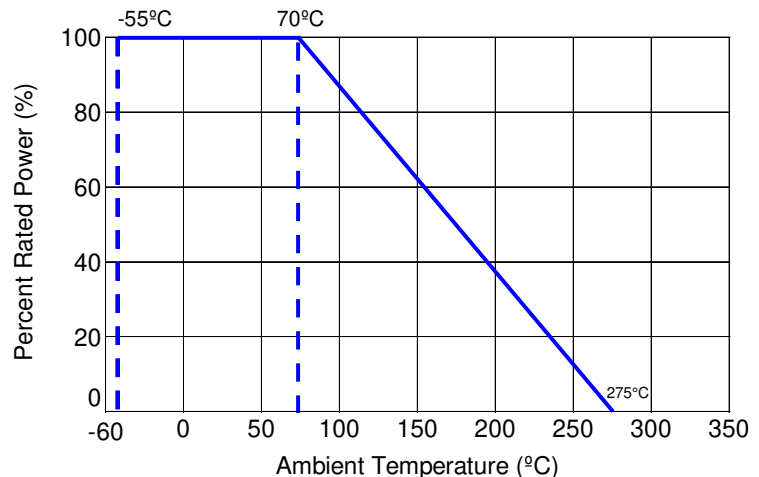


Electrical Specifications							
Type / Code	Power Rating (Watts) @ 70°C	Voltage Rating	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance			
				0.5%	1%	5%	10%
LVM5	5W	√PR	±50ppm to ±400ppm depending on value	-	0.01 - 0.1		
LVM7	7W	√PR		-	0.02 - 0.15		
LVM10	10W	√PR		-	0.02 - 0.15		
NVM5	5W	350	<1Ω=±90ppm	-	0.1 - 2.4K		-
NVM7	7W	500	1Ω to 10Ω=±50ppm	-	0.1 - 3.9K		-
NVM10	10W	700	>10Ω=±20ppm	-	0.1 - 3.9K		-
WVM5	5W	350	<1Ω=±90ppm	0.1 - 5K			-
WVM7	7W	500	1Ω to 10Ω=±50ppm	0.1 - 8K			-
WVM10	10W	700	>10Ω=±20ppm	0.1 - 8K			-

Maximum Working Voltage is limited by √PR unless specified otherwise.  
Resistance Temperature Coefficient Standard

Performance Characteristics	
Test	Test Results
Moisture Resistance	± 5%
Thermal Shock	± 2%
Load Life @ 70°C - 1,000 hrs.	± 5%
Resistance to Soldering Heat	± 2%
Short Time Overload - 5xPn for 5sec	± 2%
Dielectric Withstanding Voltage	± 2%

Power Derating Curve:



**Mechanical Specifications**



Type / Code	A	B	C	D	Lead Diameter	Lead Length	Unit
LVM5, NVM5, WVM5	0.382 ± 0.039 9.70 ± 0.99	0.988 ± 0.059 25.10 ± 1.50	0.520 ± 0.039 13.21 ± 0.99	0.201 ± 0.059 5.11 ± 1.50	0.031 ± 0.002 0.79 ± 0.05	0.138 ± 0.020 3.51 ± 0.51	inches mm
LVM7, NVM7, WVM7	0.382 ± 0.039 9.70 ± 0.99	1.520 ± 0.059 38.61 ± 1.50	0.520 ± 0.039 13.21 ± 0.99	0.201 ± 0.059 5.11 ± 1.50	0.036 ± 0.002 0.91 ± 0.05	0.138 ± 0.020 3.51 ± 0.51	inches mm
LVM10, NVM10, WVM10	0.480 ± 0.039 12.19 ± 0.99	1.374 ± 0.059 34.90 ± 1.50	0.634 ± 0.039 16.10 ± 0.99	0.299 ± 0.059 7.59 ± 1.50	0.036 ± 0.002 0.91 ± 0.05	0.138 ± 0.020 3.51 ± 0.51	inches mm

**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)
LVM	Ceramic Housed Vertical Mount Low Resistance Resistor (Ribbon Element)	Radial	YES	100% Matte SN	Jan-06	06/01
NVM	Ceramic Housed Vertical Mount Wirewound Resistor (Standard WW)	Radial	YES	100% Matte Sn	Always	Always
WVM	Ceramic Housed Vertical Mount Wirewound Resistor (Precision Wirewound)	Radial	YES	100% Matte Sn	Jan-06	06/01

**“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 Easter 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

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Product Series		Size	Power	Tolerance		Packaging				Resistance Value
LVM	Ribbon Element	5	5W	Code	Tol	B	Bulk	Size	Quantity	Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10 <sup>-3</sup> for any value under 0.1 ohm. 0.01 ohm = 10L0 0.1 ohm = R100 100 ohm = 100R 5 Kohm = 5K00
NVM	Non-inductive	7	7W	D	0.5%			LVM5, NVM5, WVM5	1,000	
WVM	Precision WW	10	10W	F	1%			LVM7, NVM7, WVM7	800	
				J	5%			LVM10, NVM10, WVM10	600	
				K	10%					