



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:
- Flameproof inorganic construction
 - High temperature potting compound
 - VM – Wirewound element
 - MVM – Metal oxide element for higher values
 - RoHS compliant / lead-free

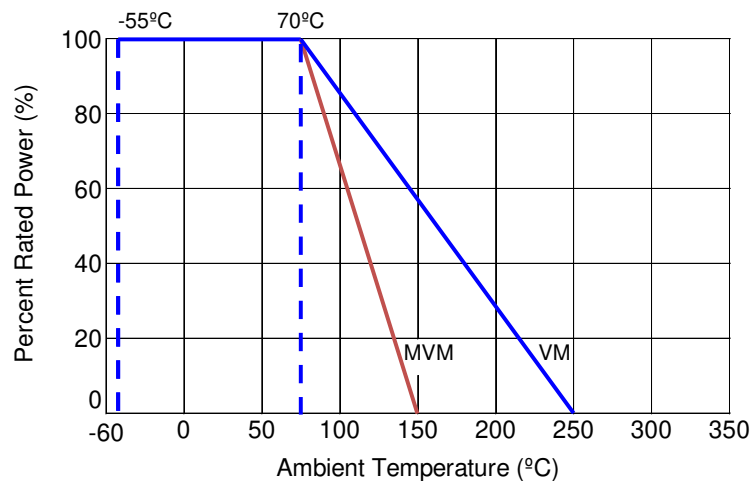


Electrical Specifications					
Type / Code	Power Rating (Watts) @ 70°C	Voltage Rating (Volts)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance	
				5%	10%
VM2	2W	250V	<1Ω=±800ppm >1Ω=±300ppm	0.056 - 100	
VM3	3W	300V		0.1 - 100	
VM5	5W	350V		0.1 - 100	
VM7	7W	500V		0.39 - 470	
VM10	10W	700V		0.56 - 680	
MVM2	2W	250V	±200ppm	0.1 - 51K	-
MVM3	3W	300V		0.1 - 51K	-
MVM5	5W	350V		0.1 - 51K	-
MVM7	7W	500V		510 - 51K	-
MVM10	10W	700V		750 - 51K	-

Maximum Working Voltage is limited by \sqrt{PR} unless specified otherwise.

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
VM2/MVM2	0.276 ± 0.039 7.00 ± 1.00	0.807 ± 0.039 20.50 ± 1.00	0.433 ± 0.039 11.00 ± 1.00	0.197 ± 0.039 5.00 ± 1.00	0.031 ± 0.002 0.80 ± 0.05	0.138 ± 0.020 3.50 ± 0.50	inches mm
VM3/MVM3	0.335 ± 0.039 8.50 ± 1.00	0.984 ± 0.039 25.00 ± 1.00	0.492 ± 0.039 12.50 ± 1.00	0.197 ± 0.039 5.00 ± 1.00	0.031 ± 0.002 0.80 ± 0.05	0.138 ± 0.020 3.50 ± 0.50	inches mm
VM5/MVM5	0.374 ± 0.039 9.50 ± 1.00	0.984 ± 0.039 25.00 ± 1.00	0.512 ± 0.039 13.00 ± 1.00	0.197 ± 0.039 5.00 ± 1.00	0.031 ± 0.002 0.80 ± 0.05	0.138 ± 0.020 3.50 ± 0.50	inches mm
VM7/MVM7	0.374 ± 0.039 9.50 ± 1.00	1.535 ± 0.059 39.00 ± 1.50	0.512 ± 0.039 13.00 ± 1.00	0.197 ± 0.039 5.00 ± 1.00	0.031 ± 0.002 0.80 ± 0.05	0.138 ± 0.020 3.50 ± 0.50	inches mm
VM10/MVM10	0.472 ± 0.039 12.00 ± 1.00	1.378 ± 0.039 35.00 ± 1.00	0.630 ± 0.039 16.00 ± 1.00	0.295 ± 0.039 7.50 ± 1.00	0.031 ± 0.002 0.80 ± 0.05	0.138 ± 0.020 3.50 ± 0.50	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)
VM	Ceramic Housed Vertical Mount Wirewound Resistor (Standard WW)	Radial	YES	100% Matte Sn	Jan-06	06/01
MVM	Ceramic Housed Vertical Mount Wirewound Resistor (Metal Oxide)	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

1	2	3	4	5	6	7	8	9
V	M	3	J	B	2	R	2	0

Product Series	
VM	Standard WW
MVM	Metal Oxide

Size	Power
2	2W
3	3W
5	5W
7	7W
10	10W

Tolerance	
Code	Tol
J	5%
K	10%

Packaging			
Code	Description	Size	Quantity
B	Bulk	VM2, MVM2	1,800
		VM3, MVM3	1,500
		VM5, MVM5	1,500
		VM7, MVM7	800
		VM10, MVM10	600

Resistance Value
Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10 ⁻³ for any value under 0.1 ohm.
0.056 ohm = 56L0
0.1 ohm = R100
680 ohm = 680R
51 Kohm = 51K0