

Features:

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



Electrical Specifications

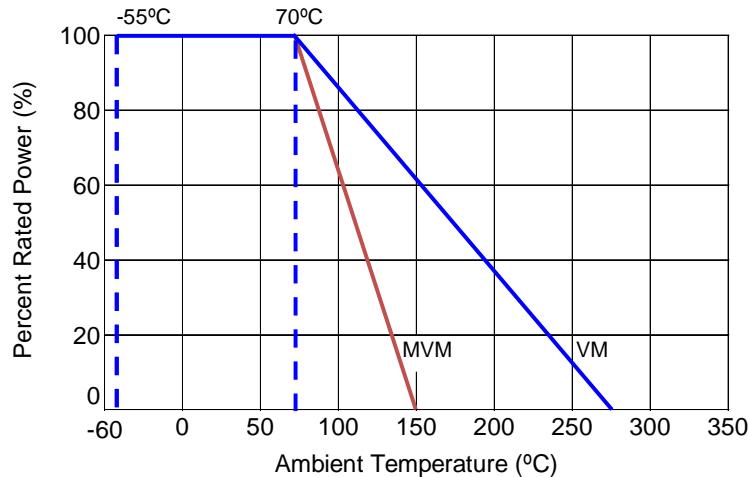
Type / Code	Power Rating (Watts) @ 70°C	Voltage Rating (Volts)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance	
				5%	10%
VM2	2W	250V	<1Ω=±800ppm >1Ω=±300ppm	0.056 - 100	
VM3	3W	300V		0.1 - 100	
VM5	5W	350V		0.1 - 100	
VM7	7W	500V		0.39 - 470	
VM10	10W	700V		0.56 - 680	
MVM2	2W	250V	±200ppm	0.1 - 51K	-
MVM3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

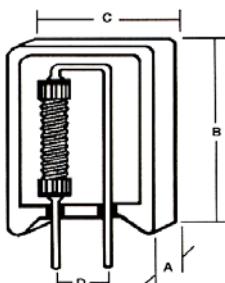
Test	Test Results
Moisture Resistance	± 5%
Thermal Shock	± 2%
Load Life @ 70°C - 1,000 hrs.	± 5%
Resistance to Soldering Heat	± 2%
Short Time Overload - 5xPn for 5sec	± 2%
Dielectric Withstanding Voltage	± 2%

Power Derating Curve:



Mechanical Specifications

VM:



MVM:



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 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
V	M	3	J	B	2	R	2	0
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Product Series	Size	Power	Tolerance	Code	Description	Size	Quantity	Resistance Value
VM	Standard WW	2	2W	Code	Tol	VM2, MVM2	1,800	Four characters with the multiplier used as the decimal holder.
MVM	Metal Oxide	3	3W	J	5%	VM3, MVM3	1,500	"L" used as multiplier of 10^{-3}
		5	5W	K	10%	VM5, MVM5	1,500	for any value under 0.1 ohm.
		7	7W			VM7, MVM7	800	0.056 ohm = 56L0
		10	10W			VM10, MVM10	600	0.1 ohm = R100
								680 ohm = 680R
								51 Kohm = 51K0