

Features:

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

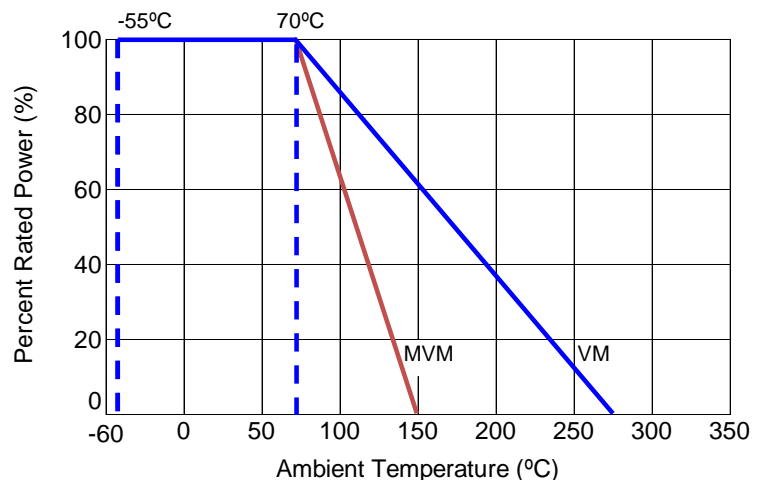


Electrical Specifications					
Type / Code	Power Rating @ 70°C (Watts)	Voltage Rating (Volts)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance	
				5%	10%
VM2	2	250	< 1 Ω = ± 800 ppm > 1 Ω = ± 300 ppm	0.056 - 100	
VM3	3	300		0.1 - 100	
VM5	5	350		0.1 - 100	
VM7	7	500		0.39 - 470	
VM10	10	700		0.56 - 680	
MVM2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

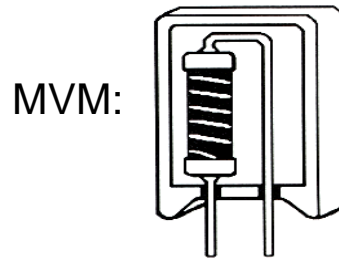
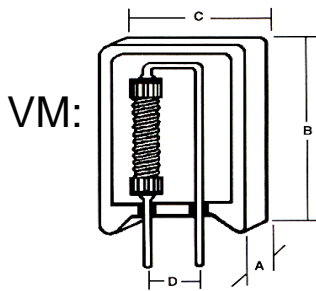
Maximum Working Voltage is limited by \sqrt{PR} unless specified otherwise.

Performance Characteristics	
Test	Test Results
Moisture Resistance	± 5%
Thermal Shock	± 2%
Load Life @ 70 °C - 1000 hours	± 5%
Resistance to Soldering Heat	± 2%
Short Time Overload - 5 X Pn for 5 seconds	± 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 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	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

Product Series

VM

Standard WW

MVM

Metal Oxide

Size

2

3

5

7

10

Power

2 W

3 W

5 W

7 W

10 W

Tolerance

Code

Tol

J

5%

K

10%

Packaging

Code

Description

Size

Quantity

B

Bulk

VM2, MVM2

VM3, MVM3

VM5, MVM5

VM7, MVM7

VM10, MVM10

1800

1500

1500

800

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