

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

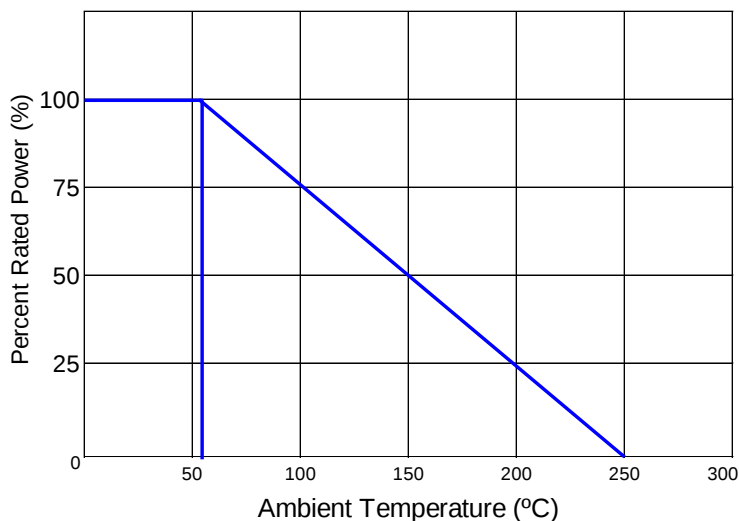


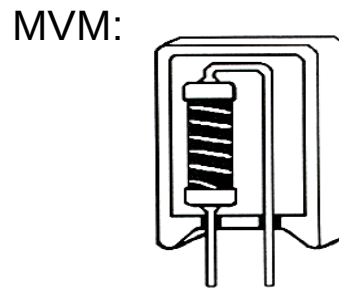
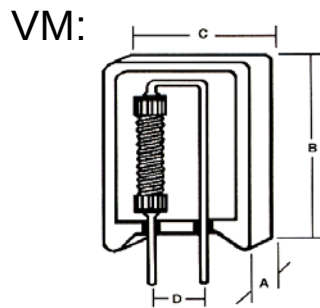
Electrical Specifications					
Type / Code	Power Rating (Watts) @ 70°C	Voltage Rating (Volts)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance	
				5%	10%
VM2	2W	250V	<1Ω=±800ppm >1Ω=±300ppm	0.056 - 100	0.056 - 100
VM3	3W	300V		0.1 - 100	0.1 - 100
VM5	5W	350V		0.1 - 100	0.1 - 100
VM7	7W	500V		0.39 - 470	0.39 - 470
VM10	10W	700V		0.56 - 680	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	0.807 ± 0.039	0.433 ± 0.039	0.197 ± 0.039	0.031 ± 0.002	0.138 ± 0.020	inches
	7.00 ± 1.00	20.50 ± 1.00	11.00 ± 1.00	5.00 ± 1.00	0.80 ± 0.05	3.50 ± 0.50	mm
VM3/MVM3	0.335 ± 0.039	0.984 ± 0.039	0.492 ± 0.039	0.197 ± 0.039	0.031 ± 0.002	0.138 ± 0.020	inches
	8.50 ± 1.00	25.00 ± 1.00	12.50 ± 1.00	5.00 ± 1.00	0.80 ± 0.05	3.50 ± 0.50	mm
VM5/MVM5	0.374 ± 0.039	0.984 ± 0.039	0.512 ± 0.039	0.197 ± 0.039	0.031 ± 0.002	0.138 ± 0.020	inches
	9.50 ± 1.00	25.00 ± 1.00	13.00 ± 1.00	5.00 ± 1.00	0.80 ± 0.05	3.50 ± 0.50	mm
VM7/MVM7	0.374 ± 0.039	1.535 ± 0.059	0.512 ± 0.039	0.197 ± 0.039	0.031 ± 0.002	0.138 ± 0.020	inches
	9.50 ± 1.00	39.00 ± 1.50	13.00 ± 1.00	5.00 ± 1.00	0.80 ± 0.05	3.50 ± 0.50	mm
VM10/MVM10	0.472 ± 0.039	1.378 ± 0.039	0.630 ± 0.039	0.295 ± 0.039	0.031 ± 0.002	0.138 ± 0.020	inches
	12.00 ± 1.00	35.00 ± 1.00	16.00 ± 1.00	7.50 ± 1.00	0.80 ± 0.05	3.50 ± 0.50	mm

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	1,000
		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	

Legacy Part Number (before January 3, 2011):

SEI Type		Code	Nominal Resistance	Tolerance	Packaging			
VM		3	2.2	5%	B			
Type	Description	Code			Types	Qty	Description	Code
VM	Standard WW	2			VM2, MVM2	1,800	Bulk	B
MVM	Metal Oxide	3			VM3, MVM3	1,500		
		5			VM5, MVM5	1,000		
		7			VM7, MVM7	800		
		10			VM10, MVM10	600		