Features:

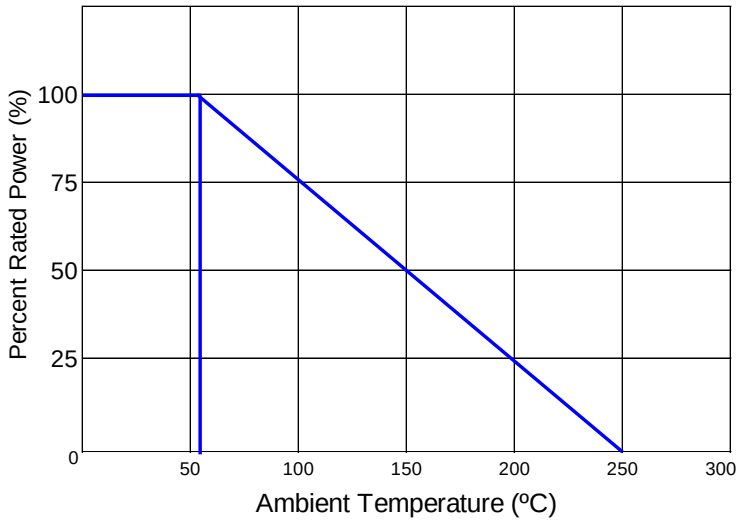
- Flameproof inorganic construction
- High temperature potting compound
- VM – Wirewound element
- MVM – Metal oxide element for higher values
- RoHS compliant / lead-free

Electrical Specifications					
Type / Code	Power Rating (Watts) @ 70ºC	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 √PR unless specified otherwise.

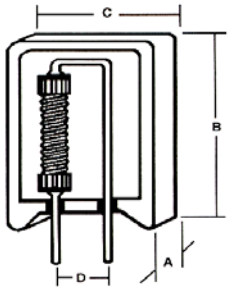
Performance Characteristics	
Test	Test Results
Moisture Resistance	± 5%
Thermal Shock	± 2%
Load Life @ 70°C - 1,000 hrs.	± 5%
Resistance to Soldering Heat	± 2%
Short Time Overload - 5xPn for 5sec	± 2%
Dielectric Withstanding Voltage	± 2%

Power Derating Curve:

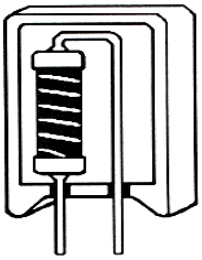


Mechanical Specifications

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

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