Resistive Product Solutions

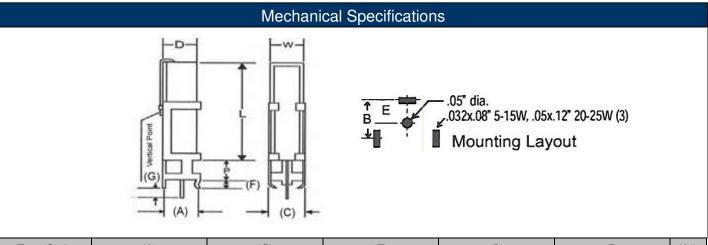
Features:

- Flameproof inorganic construction
- High temperature potting compound
- Non-inductive available up to 50Ω
- 100% RoHS compliant and lead free without exemption
- Halogen free
- REACH compliant



Electrical Specifications							
Type/Code	Power Rating (W) @ 70ºC	o · / I o I II.B (nnm/±i.)		Ohmic Range (Ω) and Tolerance Wirewound 5% Metal Oxide 5%			
BVM5	5	350	± 300	0.1 - 200	200 - 50K		
BVM7	7	500	± 300	0.1 - 300	300 - 50K		
BVM10	10	500	± 300	0.1 - 500	500 - 50K		
BVM15	15	540	± 300	0.1 - 680	680 - 50K		
BVM20	20	600	± 300	0.1 - 820	820 - 50K		
BVM25	25	600	± 300	0.1 - 820	820 - 15K		

Maximum Working voltage is limited by √P*R



Type/Code	(A)	(C)	(F)	(G)	В	Unit
BVM5	0.433 ± 0.039	0.433 ± 0.039	0.157 ± 0.024	0.197 ± 0.118	0.394 ± 0.039	inches
CINIA	11.00 ± 1.00	11.00 ± 1.00	4.00 ± 0.60	5.00 ± 3.00	10.00 ± 1.00	mm
BVM7	0.433 ± 0.039	0.433 ± 0.039	0.157 ± 0.024	0.197 ± 0.118	0.394 ± 0.039	inches
	11.00 ± 1.00	11.00 ± 1.00	4.00 ± 0.60	5.00 ± 3.00	10.00 ± 1.00	mm
BVM10	0.433 ± 0.039	0.433 ± 0.039	0.157 ± 0.024	0.197 ± 0.118	0.394 ± 0.039	inches
	11.00 ± 1.00	11.00 ± 1.00	4.00 ± 0.60	5.00 ± 3.00	10.00 ± 1.00	mm
BVM15	0.571 ± 0.039	0.571 ± 0.039	0.157 ± 0.024	0.197 ± 0.118	0.500 ± 0.039	inches
	14.50 ± 1.00	14.50 ± 1.00	4.00 ± 0.60	5.00 ± 3.00	12.70 ± 1.00	mm
BVM20	0.591 ± 0.039	0.591 ± 0.039	0.157 ± 0.024	0.197 ± 0.118	0.500 ± 0.039	inches
	15.00 ± 1.00	15.00 ± 1.00	4.00 ± 0.60	5.00 ± 3.00	12.70 ± 1.00	mm
BVM25	0.591 ± 0.039	0.591 ± 0.039	0.157 ± 0.024	0.197 ± 0.118	0.500 ± 0.039	inches
	15.00 ± 1.00	15.00 ± 1.00	4.00 ± 0.60	5.00 ± 3.00	12.70 ± 1.00	mm

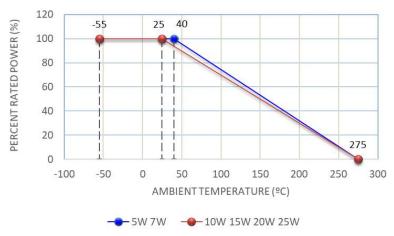
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Mechanical Specifications (cont.)						
Type/Code	E	D	L	Р	W	Unit
D\/ME	0.197 ± 0.059	0.354 ± 0.039	0.866 ± 0.039	0.197 ± 0.079	0.394 ± 0.079	inches
BVM5	5.00 ± 1.50	9.00 ± 1.00	22.00 ± 1.00	5.00 ± 2.00	10.00 ± 2.00	mm
BVM7	0.197 ± 0.059	0.354 ± 0.039	1.378 ± 0.039	0.394 ± 0.079	0.394 ± 0.079	inches
	5.00 ± 1.50	9.00 ± 1.00	35.00 ± 1.00	10.00 ± 2.00	10.00 ± 2.00	mm
BVM10	0.197 ± 0.059	0.354 ± 0.039	1.890 ± 0.039	0.394 ± 0.079	0.394 ± 0.079	inches
BVIVITO	5.00 ± 1.50	9.00 ± 1.00	48.00 ± 1.00	10.00 ± 2.00	10.00 ± 2.00	mm
BVM15	0.264 ± 0.059	0.492 ± 0.039	1.929 ± 0.039	0.394 ± 0.079	0.492 ± 0.079	inches
	6.70 ± 1.50	12.50 ± 1.00	49.00 ± 1.00	10.00 ± 2.00	12.50 ± 2.00	mm
BVM20	0.276 ± 0.059	0.512 ± 0.039	2.362 ± 0.039	0.394 ± 0.079	0.512 ± 0.079	inches
	7.00 ± 1.50	13.00 ± 1.00	60.00 ± 1.00	10.00 ± 2.00	13.00 ± 2.00	mm
BVM25	0.276 ± 0.059	0.512 ± 0.039	2.362 ± 0.039	0.394 ± 0.079	0.512 ± 0.079	inches
BVIVI25	7.00 ± 1.50	13.00 ± 1.00	60.00 ± 1.00	10.00 ± 2.00	13.00 ± 2.00	mm

Performance Characteristics					
Test	Test Specification				
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%				

Operating temperature range is -55°C to +275°C

Power Derating Curve:



Recommended Solder Profile

This information is intended as a reference for solder profiles for Stackpole resistive components. These profiles should be compatible with most soldering processes. These are only recommendations. Actual numbers will depend on board density, geometry, packages used, etc., especially those cells labeled with "*".

100% Matte Tin / RoHS Compliant Terminations

Soldering iron recommended temperatures: 330°C to 350°C with minimum duration. Maximum number of reflow cycles: 3.

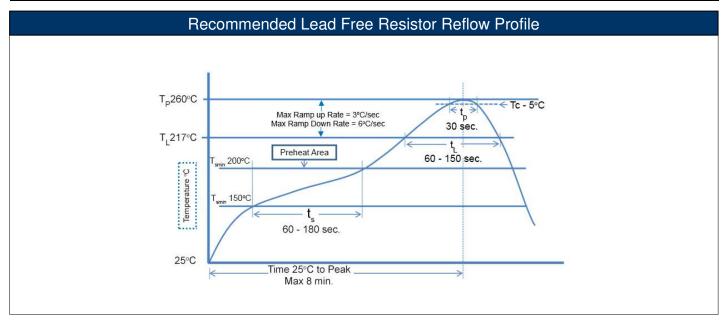
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Wave Soldering								
Description	Description Maximum Recommended Minimum							
Preheat Time 80 seconds		70 seconds	60 seconds					
Temperature Diff.	140°C	120°C	100°C					
Solder Temp.	260°C	250°C	240°C					
Dwell Time at Max.	10 seconds	5 seconds	*					
Ramp DN (°C/sec)	N/A	N/A	N/A					

Temperature Diff. = Defference between final preheat stage and soldering stage.

Convection IR Reflow						
Description Maximum Recommended Minimum						
Ramp Up (°C/sec) 3°C/sec		2°C/sec	*			
Dwell Time > 217°C 150 seconds		90 seconds	60 seconds			
Solder Temp.	260°C	245°C	*			
Dwell Time at Max.	30 seconds	15 seconds	10 seconds			
Ramp DN (°C/sec)	6°C/sec	3°C/sec	*			



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	Product Description Termination Series Lead				Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)		
BVM	Ceramic Housed Vertical Wirewound Bracket Mount Resistor	Special	YES	100% Matte Sn	Always	Always		

Stackpole Electronics, Inc.

Resistive Product Solutions

"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.

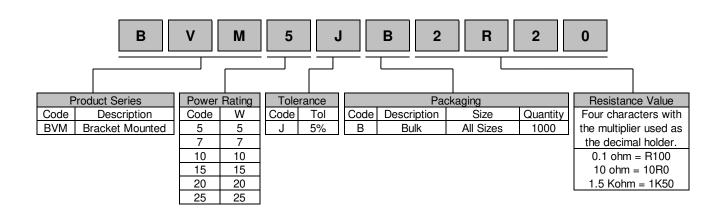
Compliance to "REACH"

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



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Rev Date: 11/30/2020