Features:

- High temperature molded encapsulation
- Flex termination for absorbing thermal expansion
- All welded construction
- Non-inductive winding available (contact Stackpole with requirements)
- RoHS compliant, lead free and halogen free
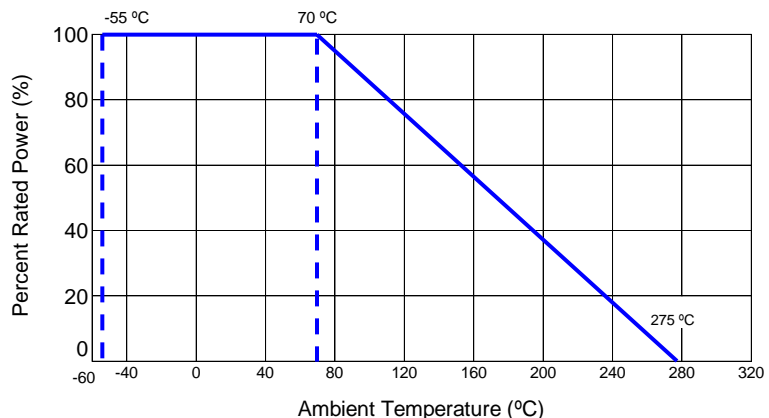
Electrical Specifications

Type / Code	Power Rating (W) @ 70 ºC	Maximum Working Voltage (V)	Dielectric Withstanding Voltage (V)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance			
					0.1%	0.5%	1%	5%
SM2615	1	25	> 500	± 75	-			0.01 - 0.098
				± 100	5 - 10	3 - 10	1 - 10	0.1 - 10
				± 20	10.1 - 400		10.2 - 400	11 - 400
SM4124	2	50	> 500	± 75	-		0.05 - 0.098	0.01 - 0.098
				± 100	5 - 10	3 - 10	0.1 - 10	
				± 20	10.1 - 1 K		10.2 - 1 K	11 - 1 K
SM4527	2	60	> 500	± 75	-		0.05 - 0.098	0.01 - 0.098
				± 100	5 - 10	3 -10	0.1 - 10	
				± 20	10.1 - 1 K		10.2 - 1 K	11 - 1 K
SM4527…-LP	2	60	> 500	± 75	-		0.01 - 0.05	
SMH4527	3	60	> 500	± 75	-		0.01 - 0.05	
SM6227	3	100	> 500	± 75	-		0.05 - 0.098	
				± 100	1 - 10			
				± 20	10.1 - 3 K		10.2 - 3 K	11 - 3 K
SM8035	4	100	> 500	± 75	-		0.05 - 0.098	
				± 100	1 - 10			
				± 20	10.1 - 5 K		10.2 - 5 K	11 - 5 K

Performance Characteristics

Test	Test Specification
Moisture Resistance	± 1%
Thermal Shock	± 0.5%
Load Life @ 70 ºC - 1000 hours	± 1%
Resistance to Soldering Heat	± 1%
Terminal Strength	± 0.5%
Dielectric Withstanding Voltage	± 0.001% / V
Short Time Overload	± 0.2%

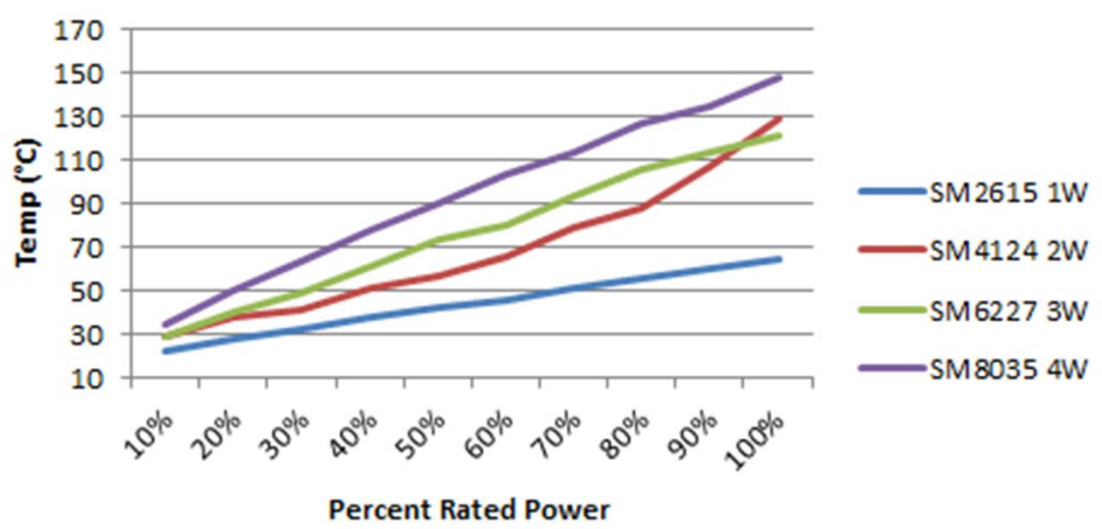Operating temperature range is -55 ºC to +275 ºC

Power Derating Curve:

Rev Date: 06/22/2020

1

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Mechanical Specifications

Type / Code	A Body Length	B Total Length	C Body Height	D Body Width	E Termination Width	F Termination Length	W	H	L	Unit
SM2615	0.260 ± 0.015 / 6.60 ± 0.38	0.280 ± 0.032 / 7.11 ± 0.81	0.140 ± 0.015 / 3.56 ± 0.38	0.150 ± 0.015 / 3.81 ± 0.38	0.100 ± 0.015 / 2.54 ± 0.38	0.090 ± 0.015 / 2.29 ± 0.38	0.138 / 3.51	0.130 / 3.30	0.350 / 8.89	inches / mm
SM4124	0.410 ± 0.015 / 10.41 ± 0.38	0.430 ± 0.032 / 10.92 ± 0.81	0.180 ± 0.015 / 4.57 ± 0.38	0.240 ± 0.015 / 6.10 ± 0.38	0.122 ± 0.015 / 3.10 ± 0.38	0.090 ± 0.015 / 2.29 ± 0.38	0.181 / 4.60	0.157 / 3.99	0.583 / 14.81	inches / mm
SM4527	0.455 ± 0.015 / 11.56 ± 0.38	0.475 ± 0.032 / 12.07 ± 0.81	0.215 ± 0.015 / 5.46 ± 0.38	0.270 ± 0.015 / 6.86 ± 0.38	0.122 ± 0.015 / 3.10 ± 0.38	0.105 ± 0.015 / 2.67 ± 0.38	0.169 / 4.29	0.157 / 3.99	0.587 / 14.91	inches / mm
SM4527…-LP	0.455 ± 0.015 / 11.56 ± 0.38	0.475 ± 0.032 / 12.07 ± 0.81	0.150 ± 0.015 / 3.81 ± 0.38	0.270 ± 0.015 / 6.86 ± 0.38	0.122 ± 0.015 / 3.10 ± 0.38	0.105 ± 0.015 / 2.67 ± 0.38	0.169 / 4.29	0.157 / 3.99	0.587 / 14.91	inches / mm
SMH4527	0.455 ± 0.015 / 11.56 ± 0.38	0.475 ± 0.032 / 12.07 ± 0.81	0.150 ± 0.015 / 3.81 ± 0.38	0.270 ± 0.015 / 6.86 ± 0.38	0.122 ± 0.015 / 3.10 ± 0.38	0.105 ± 0.015 / 2.67 ± 0.38	0.169 / 4.29	0.157 / 3.99	0.587 / 14.91	inches / mm
SM6227	0.625 ± 0.015 / 15.88 ± 0.38	0.645 ± 0.032 / 16.38 ± 0.81	0.250 ± 0.015 / 6.35 ± 0.38	0.275 ± 0.015 / 6.99 ± 0.38	0.122 ± 0.015 / 3.10 ± 0.38	0.130 ± 0.015 / 3.30 ± 0.38	0.236 / 5.99	0.157 / 3.99	0.850 / 21.59	inches / mm
SM8035	0.800 ± 0.015 / 20.32 ± 0.38	0.830 ± 0.032 / 21.08 ± 0.81	0.370 ± 0.015 / 9.40 ± 0.38	0.350 ± 0.015 / 8.89 ± 0.38	0.115 ± 0.015 / 2.92 ± 0.38	0.165 ± 0.015 / 4.19 ± 0.38	0.340 / 8.64	0.157 / 3.99	0.950 / 24.13	inches / mm

SM Series Hot Spot Temperature

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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)
SM	Surface Mount - General Purpose and Precision Wirewound Resistor	SMD	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	10	11	12	13	14	15
S	M	4	1	2	4	F	T	1	K	0	0	-	L	P

Product Series	
Code	Description
SM	Standard
SMH	High Power
NSM	Non-inductive

Power Rating	
Size	W
2615	1
4124	2
4527	2
(H)4527	3
6227	3
8035	4

Tolerance	
Code	Tol
B	0.1%
D	0.5%
F	1%
J	5%

Packaging			
Code	Description	Size	Quantity
T	13" Reel Plastic Tape	2615	1500
		4527(-LP), H4527	1200
		4527	900
		4124	800
		6227	750
		8035	350

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.
0.01 ohm = 10L0
0.1 ohm = R100
1 Kohm = 1K00

Special	
Code	Description
(blank)	Standard
-LP	Low Profile

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