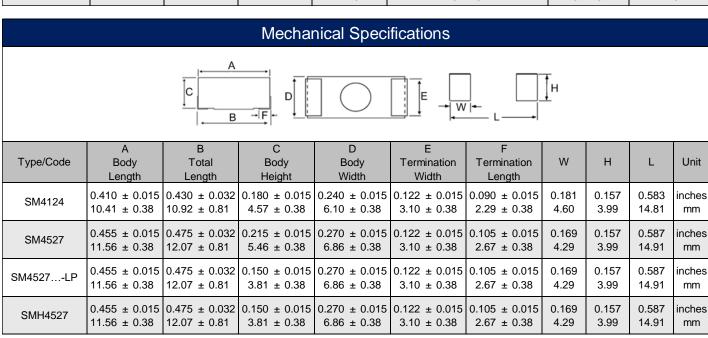
Resistive Product Solutions

Features:

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



Electrical Specifications									
Type/Code	Power Rating Maximum (W) Working @ 70°C Voltage	Dielectric Withstanding	TCR	Ohmic Range (Ω) and Tolerance					
		Voltage	Voltage (V)	(ppm/°C)	0.1%	0.5%	1%	5%	
		√(P*R)	> 500	± 75	-		0.051 - 0.098	0.01 - 0.091	
SM4124	2			± 100	5 - 10	3 -10	0.1	- 10	
				± 20	10.1 - 1K		10.2 - 1K	11 - 1K	
	2	√(P*R)	> 500	± 75		-	0.051- 0.091	0.01 - 0.091	
SM4527				± 100	5 - 10	3 - 10	0.1	- 10	
				± 20	10.1 - 1K		10.2 - 1K	11 - 1K	
SM4527LP	2	√(P*R)	> 500	± 75	-		0.01 - 0.05		
SMH4527	3	√(P*R)	> 500	± 75	- 0.01 - 0.05			- 0.05	
	3	√(P*R)	> 500	± 75	-		0.051 - 0.091		
SM6227				± 100	0.1 - 10		- 10		
				± 20	10.1	- 3K	10.2 - 3K	11 - 3K	
	4 √(P*R		√(P*R) > 500	± 75	-		0.051 - 0.091		
SM8035		√(P*R)		± 100	0.1 - 10		- 10		
				± 20	10.1 - 5K		10.2 - 5K	11 - 5K	

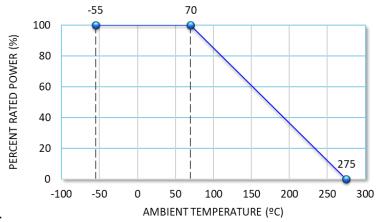


Mechanical Specifications (cont.)										
Type/Code	A Body Length	B Total Length	C Body Height	D Body Width	E Termination Width	F Termination Length	W	Н	L	Unit
SM6227		0.645 ± 0.032 16.38 ± 0.81	0.250 ± 0.015 6.35 ± 0.38	0.275 ± 0.015 6.99 ± 0.38		0.130 ± 0.015 3.30 ± 0.38	0.236 5.99	0.157 3.99	0.850 21.59	inches mm
SM8035		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

Performance Characteristics						
Test	Test Specification					
Moisture Resistance	± 1%					
Thermal Shock	± 0.5%					
Load Life @ 70°C - 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 to +275°C

Power Derating Curve:



Hot Spot Temperature:



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 "*".

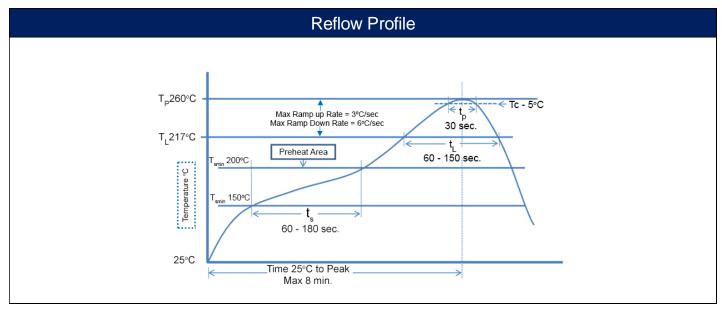
100% Matte Tin / RoHS Compliant Terminations

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

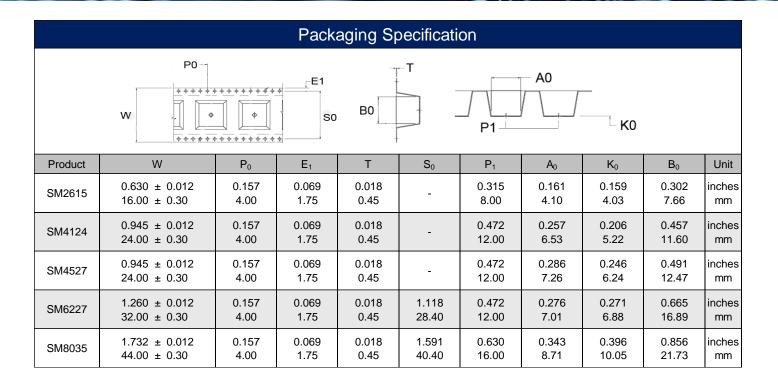
Wave Soldering							
Description	Maximum	Recommended	Minimum				
Preheat Time	80 seconds	70 seconds	60 seconds				
Temperature Diff.	140°C	120°C	100°C				
Solder Temp.	260°C	250°C	240°C				
Dwell Time at Max.	10 seconds	5 seconds	*				
Ramp DN (°C/sec)	N/A	N/A	N/A				

Temperature Diff. = Dlfference 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	*				



Resistive Product Solutions



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								
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 Wirewound Resistor (Standard)								
SMH	Surface Mount Wirewound Resistor (High Power)	SMD	YES	100% Matte Sn	Jan-06	06/01			
NSM	Surface Mount Wirewound Resistor (Non-inductive)								

"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.

Stackpole Electronics, Inc.

Surface Mount Wirewound Resistor

Resistive Product Solutions

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.

