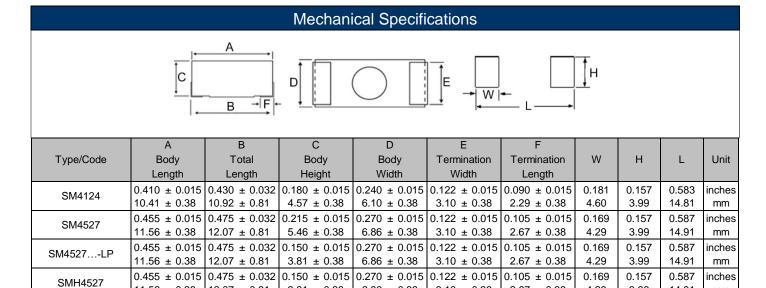
Resistive Product Solutions

#### Features:

- High temperature molded encapsulation
- Flex termination for absorbing thermal expansion
- All welded construction
- Non-inductive winding available (contact Stackpole with requirements)
- 100% RoHS compliant and lead free without exemption
- Halogen free
- REACH compliant
- Size 2615 discontinued on August 31, 2022 for more information, please see our PDN here



Electrical Specifications								
Type/Code	Power Rating Maximum (W) Working @ 70°C Voltage	Dielectric Withstanding	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance				
		Voltage	Voltage (V)	(ppn/°C)	0.1%	0.5%	1%	5%
SM4124 SM4527	2	√P*R	> 500	± 75		-	0.051 - 0.098	0.01 - 0.091
				± 100	5 - 10	3 - 10	0.1	- 10
				± 20	10.1 - 1 K		10.2 - 1 K	11 - 1 K
				± 75	-		0.051- 0091	0.01 - 0.091
				± 100	5 - 10	3 -10	0.1 - 10	
				± 20	10.1 - 1 K		10.2 - 1 K	11 - 1 K
SM4527LP	2			± 75	-		0.01 - 0.05	
SMH4527	3			± 75	-		0.01 - 0.05	
SM6227	3			± 75	-		0.051 - 0.091	
				± 100	0.1 - 10			
				± 20	10.1 - 3 K		10.2 - 3 K	11 - 3 K
SM8035				± 75	-		0.051 - 0.091	
				± 100	0.1 - 10		- 10	•
				± 20	10.1	- 5 K	10.2 - 5 K	11 - 5 K



 $6.86 \pm 0.38$ 

 $0.275 \pm 0.015$ 

 $6.99 \pm 0.38$ 

 $0.350 \pm 0.015$ 

 $8.89 \pm 0.38$ 

 $3.10 \pm 0.38$ 

 $0.122 \pm 0.015$ 

 $3.10 \pm 0.38$ 

 $0.115 \pm 0.015$ 

 $2.92 \pm 0.38$ 

 $2.67 \pm 0.38$ 

 $0.130 \pm 0.015$ 

 $3.30 \pm 0.38$ 

 $0.165 \pm 0.015$ 

 $4.19 \pm 0.38$ 

4.29

0.236

5.99

0.340

3.99

0.157

3.99

0.157

14.91

0.850

21.59

0.950

24.13

mm

inches

mm

inches

mm

SM6227

SM8035

 $11.56 \pm 0.38$ 

 $0.625 \pm 0.015$ 

 $15.88 \pm 0.38$ 

 $0.800 \pm 0.015$ 

 $20.32 \pm 0.38$ 

 $12.07 \pm 0.81$ 

 $0.645 \pm 0.032$ 

 $16.38 \pm 0.81$ 

 $0.830 \pm 0.032$ 

 $21.08 \pm 0.81$ 

 $3.81 \pm 0.38$ 

 $0.250 \pm 0.015$ 

 $6.35 \pm 0.38$ 

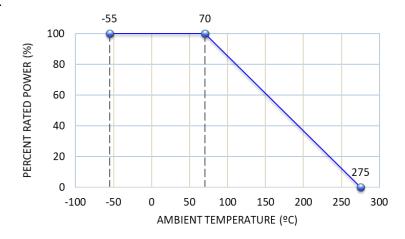
 $0.370 \pm 0.015$ 

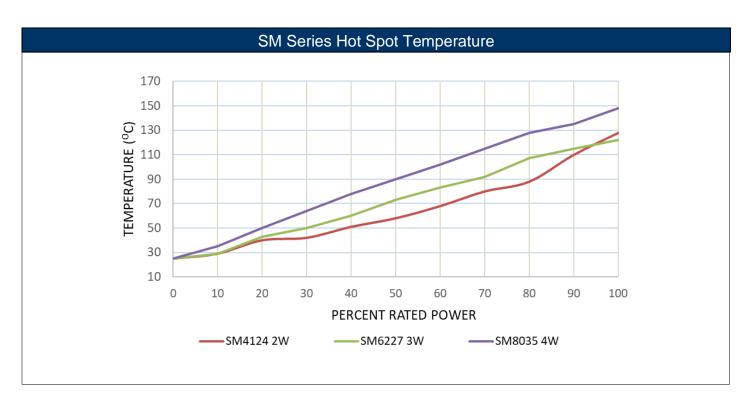
 $9.40 \pm 0.38$ 

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°C to +275°C

# Power Derating Curve:





Resistive Product Solutions

### 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 "\*".

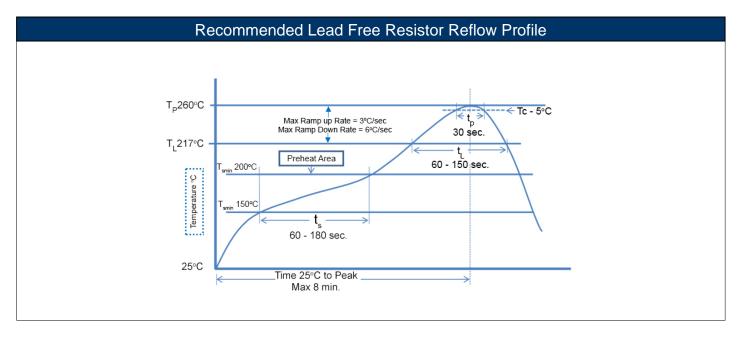
## 100% Matte Tin / RoHS Compliant Terminations

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

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. = 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	*		



# Stackpole Electronics, Inc.

Surface Mount Wirewound Resistor

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 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.

