

- Features:
- Conformal coating
  - Flameproof construction
  - Cut and formed product is available on select sizes  
Contact factory for details
  - RoHS compliant / lead-free
  - Bulk packaging available – contact Stackpole for package quantities

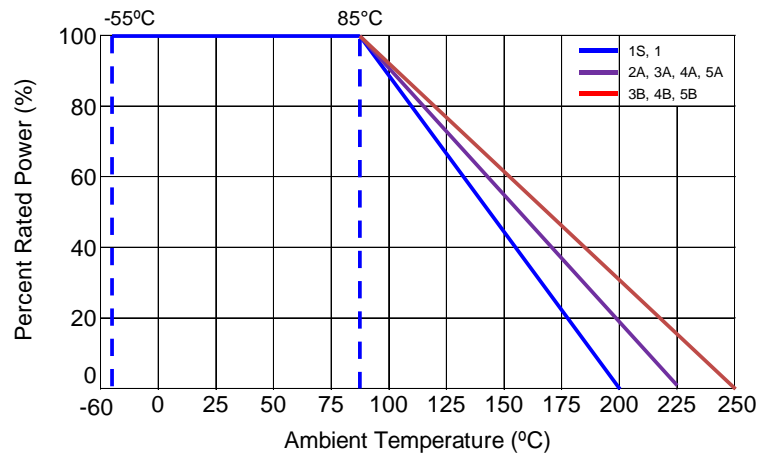
Electrical Specifications						
Type / Code	Size	Power Rating (Watts) @ 85°C	Maximum Working Voltage	Dielectric Withstanding Voltage (RMS)	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance
						5%
WRC1S	0309	1W	√PR	700V	-80 ppm/°C ~ +900 ppm/°C	0.1 - 100
WRC1	0410	1W	√PR	700V	-80 ppm/°C ~ +900 ppm/°C	0.1 - 470
WRC2A	0416	2W				
WRC3A	0416	3W				
WRC4A	0416	4W				
WRC5A	0416	5W				
WRC3B	0617	3W	√PR	700V	-80 ppm/°C ~ +900 ppm/°C	0.1 - 680
WRC4B	0617	4W	√PR	700V	-80 ppm/°C ~ +900 ppm/°C	0.01 - 680
WRC5B	0617	5.5W				

Mechanical Specifications					
Type / Code	A Body Length	B Body Width	C Lead Length (Bulk) (1)	D Lead Diameter	Unit
WRC1S	0.354 max 9.00 max	0.138 max 3.50 max	1.102 ± 0.079 28.00 ± 2.00	0.024 ± 0.002 0.60 ± 0.05	inches mm
WRC1	0.394 max 10.00 max	0.161 max 4.10 max	1.102 ± 0.079 28.00 ± 2.00	0.028 ± 0.002 0.72 ± 0.05	inches mm
WRC2A, WRC3A WRC4A, WRC5A	0.492 max 12.50 max	0.217 max 5.50 max	1.102 ± 0.118 28.00 ± 3.00	0.028 ± 0.002 0.72 ± 0.05	inches mm
WRC3B, WRC4B WRC5B	0.630 max 16.00 max	0.236 max 6.00 max	1.102 ± 0.118 28.00 ± 3.00	0.028 ± 0.002 0.72 ± 0.05	inches mm

(1) See "Resistor Packaging Specification Document" for lead length dimension for tape and reel packaged product.

Performance Characteristics	
Test	Test Results
Moisture Resistance	± 5% + 0.05Ω
Thermal Shock	± 2% + 0.05Ω
Load Life @ 70°C - 1,000 hrs.	± 5% + 0.05Ω
Shock and Vibration	± 1% + 0.05Ω
Resistance to Soldering Heat	± 2% + 0.05Ω
Short Time Overload	± 3% + 0.05Ω
Operating Temperature Range	-55°C to +250°C

**Power Derating Curve:**



**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 2). 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.

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)
WRC	Conformal Coated Welded Wirewound Resistor	Axial	YES	100% Matte Sn	Always	Always

**“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 Easter 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
<b>W</b>	<b>R</b>	<b>C</b>	<b>2</b>	<b>A</b>	<b>J</b>	<b>A</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>R</b>

Product Series	Size	Power	Tolerance		Packaging				Resistance Value	
WRC	Standard	1S	1W	Code	Tol	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10 <sup>-3</sup> for any value under 0.1 ohm. 0.01 ohm = 10L0 0.1 ohm = R100 1 ohm = 1R00 10 ohm = 10R0
		1	1W	J	5%	T	Tape & Reel	1S	5,000	
		2A	2W					1, 2A, 3A, 4A, 5A	2,000	
		3A	3W					3B, 4B, 5B	1,000	
		4A	4W			A	Ammo	1S, 1	2,000	
		5A	5W					2A, 3A, 4A, 5A, 3B, 4B, 5B	1,000	
		3B	3W							
		4B	4W							
		5B	5.5W							