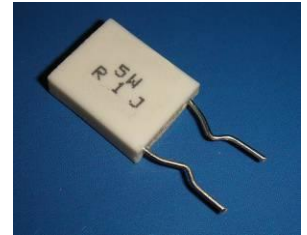


**Features:**

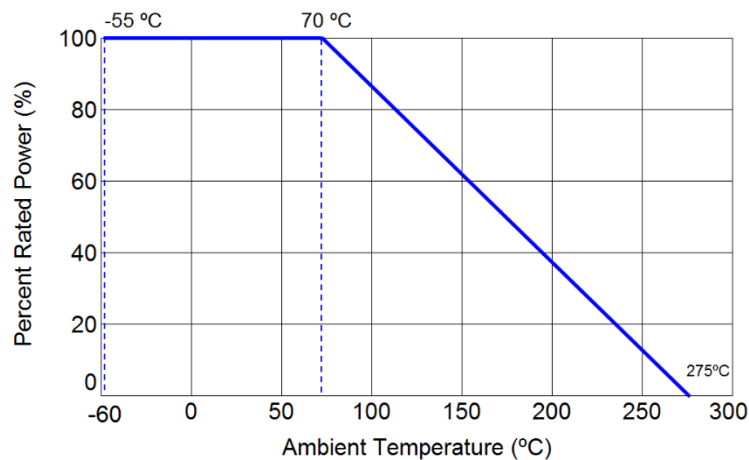
- Small size with high power ratio
- Low resistance values and low inductance
- Crimped leads keep circuit board temperatures cooler
- RoHS compliant, lead free and halogen free



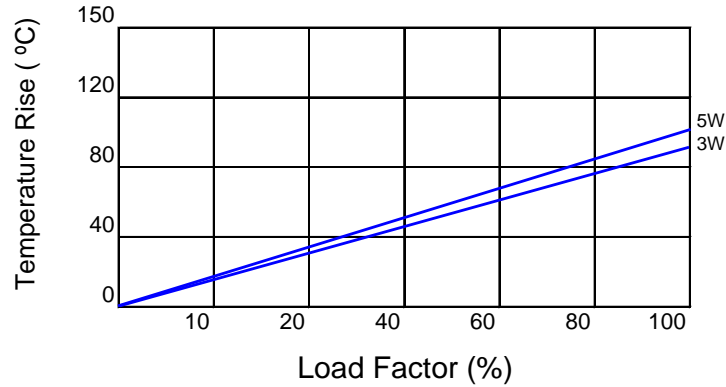
Electrical Specifications					
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance
					5%, 10%
MPR3	3W	350V	700V	±350 ppm/°C	0.01 - 0.47
MPR5	5W				

Mechanical Specifications						
Type / Code	L	W	H	d	P	Unit
MPR3	0.551 ± 0.059	0.197 ± 0.039	0.394 ± 0.039	0.031 ± 0.004	0.394 ± 0.039	inches
	14.00 ± 1.50	5.00 ± 1.00	10.00 ± 1.00	0.80 ± 0.10	10.00 ± 1.00	mm
MPR5	0.551 ± 0.059	0.197 ± 0.039	0.709 ± 0.039	0.031 ± 0.004	0.394 ± 0.039	inches
	14.00 ± 1.50	5.00 ± 1.00	18.00 ± 1.00	0.80 ± 0.10	10.00 ± 1.00	mm

**Power Derating Curve:**



Load Factor:



Performance Characteristics		
Test	Test Limit	Test Method (JIS C 5201-1)
Short Time Overload	$\Delta R \leq (2\% R_o + 0.05\Omega)$	2.5X, 5 sec.
Dielectric Withstanding Voltage	500V	5.7
Thermal Shock	$\Delta R \leq (2\% R_o + 0.05\Omega)$	4.19
Temperature Coefficient	$\pm 350\text{PPM}/^\circ\text{C}$	4.8
Load Life	$\Delta R \leq (3\% R_o + 0.05\Omega)$	4.25
Load Life w/Humidity	$\Delta R \leq (3\% R_o + 0.05\Omega)$	4.23

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)
MPR	Flameproof Rectangular Type Metal Plate Resistor	Radial Special	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 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**

