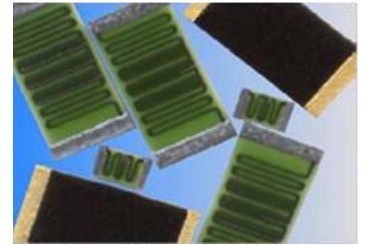


**Features:**

- Ultra high stability
- Very low noise
- Tolerances to 0.1%
- TCR down to 25 ppm/°C
- RoHS compliant and halogen free

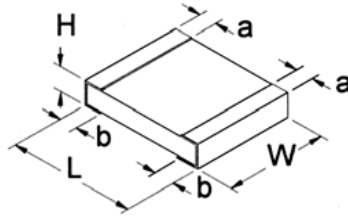


Electrical Specifications											
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Resistane Temperature Coefficient	Ohmic Range (Ω) and Tolerance							
				0.1%	0.25%	0.5%	1%	2%	5%	10%	20%
0402	0.04 W	50 V	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	-				10 K - 100 M			
								10 K - 500 M			
								10 K - 500 M	10 K - 1 G		
0603	0.06 W	100 V	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	-		10 K - 10 M	10 K - 100 M	10 K - 500 M			
							10 K - 500 M	10 K - 1 G		10 K - 10 G	10 K - 50 G
0805	0.2 W	125 V	± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	-		10 K - 10 M	10 K - 500 M				
							10 K - 1 G				
							10 K - 1 G	10 K - 10 G		10 K - 50 G	
1206	0.33 W	200 V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1 M - 10 M	1 M - 100 M						
				100 K - 10 M	100 K - 100 M	100 K - 500 M					
				10 K - 10 M	10 K - 100 M	10 K - 500 M	10 K - 1 G				
							10 K - 1 G	10 K - 10 G		10 K - 50 G	
2010	1 W	300 V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1 M - 10 M	1 M - 100 M						
				100 K - 10 M	100 K - 100 M	100 K - 500 M					
				10 K - 10 M	10 K - 100 M	10 K - 500 M	10 K - 1 G				
							10 K - 1 G	10 K - 10 G		10 K - 50 G	
2512	2 W	350 V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1 M - 100 M	1 M - 500 M						
				100 K - 100 M	100 K - 500 M	100 K - 1 G					
				10 K - 100 M	10 K - 500 M	10 K - 1 G	10 K - 10 G			100 K - 10 G	
									100 K - 50 G		
3512	3 W	600 V	± 25 ppm/°C ± 50 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	1 M - 100 M	1 M - 500 M						
				100 K - 100 M	100 K - 500 M	100 K - 1 G					
				10 K - 100 M	10 K - 500 M	10 K - 1 G	10 K - 10 G			100 K - 10 G	
									100 K - 50 G		

Performance Characteristics	
Test	Typical Delta R
Short Time Overload	0.1%
Load Life	0.1%
Temperature Cycle	0.1%
Moisture Resistance	0.1%
Shock	0.05%
Vibration	0.05%
Dielectric Withstanding Voltage	0.05%
Resistance to Soldering Heat	0.05%

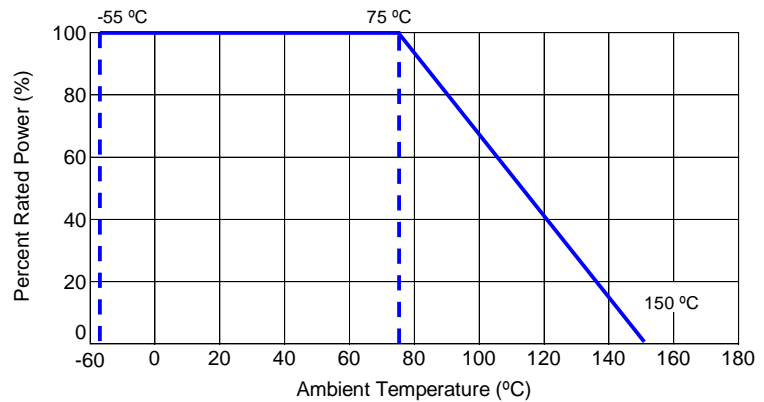
Operating Temperature Range: -55 °C to +150 °C

**Mechanical Specifications**



Type / Code	L Body Length	W Body Width	H Body Height (Max.)	a Top Termination	b Bottom Termination	Unit
0402	0.040 ± 0.005 1.02 ± 0.13	0.020 ± 0.003 0.51 ± 0.08	0.020 0.51	0.008 ± 0.004 0.20 ± 0.10	0.010 ± 0.004 0.25 ± 0.10	inches mm
0603	0.063 ± 0.010 1.60 ± 0.25	0.031 ± 0.005 0.79 ± 0.13	0.020 0.51	0.010 ± 0.005 0.25 ± 0.13	0.012 ± 0.008 0.30 ± 0.20	inches mm
0805	0.079 ± 0.010 2.01 ± 0.25	0.050 ± 0.005 1.27 ± 0.13	0.025 0.64	0.010 ± 0.005 0.25 ± 0.13	0.013 ± 0.008 0.33 ± 0.20	inches mm
1206	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.005 1.60 ± 0.13	0.030 0.76	0.010 ± 0.005 0.25 ± 0.13	0.020 ± 0.010 0.51 ± 0.25	inches mm
2010	0.200 ± 0.010 5.08 ± 0.25	0.100 ± 0.005 2.54 ± 0.13	0.030 0.76	0.018 ± 0.010 0.46 ± 0.25	0.020 ± 0.010 0.51 ± 0.25	inches mm
2512	0.250 ± 0.010 6.35 ± 0.25	0.125 ± 0.005 3.18 ± 0.13	0.030 0.76	0.020 ± 0.010 0.51 ± 0.25	0.024 ± 0.010 0.61 ± 0.25	inches mm
3512	0.350 ± 0.010 8.89 ± 0.25	0.125 ± 0.005 3.18 ± 0.13	0.030 0.76	0.020 ± 0.010 0.51 ± 0.25	0.024 ± 0.010 0.61 ± 0.25	inches mm

**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 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)
HGC	Thick Film Precision High Resistance Chip Resistor	SMD	YES(1)	100% Matte Sn over Ni	Always	Always

Note (1): RoHS Compliant by means of exemption 7c-l.

### “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

