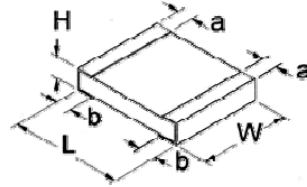


- Features:**
- ✓ Precision performance
  - ✓ Tolerances of +0.5% and ±1%
  - ✓ RoHS compliant / lead-free
  - ✓ Less sensitive to ESD discharges than comparable thin film devices
  - ✓ Highly stable performance over time
  - ✓ Power derating from 100% at 70°C to zero at 150°C
  - ✓ Temperature coefficient of resistance of ±50ppm/°C and ±100ppm/°C



Electrical Specifications							
Type / Code	Package Type	Power Rating (Watts) @ 70°C	Maximum Working Voltage ①	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance	
						0.5%	1%
RGC 1/16S	0402	0.063W	50V	100V	± 50 ppm/°C ± 100 ppm/°C	10Ω - 97.6Ω 100Ω - 1MΩ	10Ω - 97.6Ω 100Ω - 1MΩ
RGC 1/16	0603	0.100W	50V	100V	± 50 ppm/°C	100Ω - 1MΩ	100Ω - 1MΩ
RGC 1/10	0805	0.125W	150V	300V	± 50 ppm/°C	100Ω - 1MΩ	100Ω - 1MΩ
RGC 1/8	1206	0.250W	200V	400V	± 50 ppm/°C ± 350 ppm/°C	100Ω - 1MΩ	100Ω - 1MΩ

① Lesser of  $\sqrt{PR}$  or maximum working voltage.

Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Units
RGC 1/16S	0.039 ± 0.002 1.00 ± 0.05	0.020 ± 0.002 0.50 ± 0.05	0.014 ± 0.002 0.35 ± 0.05	0.008 ± 0.004 0.20 ± 0.10	0.010 + 0.002/-0.004 0.25 + 0.05/-0.10	inches mm
RGC 1/16	0.063 ± 0.004 1.60 ± 0.10	0.031 ± 0.004 0.80 ± 0.10	0.018 ± 0.004 0.45 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.012 ± 0.008 0.30 ± 0.20	inches mm
RGC 1/10	0.079 ± 0.004 2.00 ± 0.10	0.050 ± 0.004 1.25 ± 0.10	0.020 ± 0.004 0.50 ± 0.10	0.016 ± 0.008 0.40 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
RGC 1/8	0.126 + 0.002/-0.008 3.20 + 0.05/-0.20	0.063 + 0.002/-0.006 1.60 + 0.05/-0.15	0.024 ± 0.004 0.60 ± 0.10	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.08 0.50 ± 0.20	inches mm

Performance Characteristics		
Test	Test Conditions	Test Results
Endurance @ 125°C	125°C, No load, 1,000 hrs.	± 5%
Endurance @ 70°C	Rated Voltage, 1.5 hr. ON, 0.5 hr. OFF, 1,000 hrs. 70°C	± 5%
Resistance to Soldering Heat	260°C ± 5°C, 5 seconds +1/-0	± 1%
Short Time Overload	2 seconds at 2.5 times rated or limiting voltage	± 1%
Voltage Proof	100 volts AC, 60 seconds	No breakdown or flashover R ≥ 1GΩ

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

### How to Order

SEI Type	Code	TCR	Nominal Resistance	Tolerance	Packaging																																	
<b>RGC</b>	<b>1/16</b>	<b>T1</b>	<b>4.7K</b>	<b>1%</b>	<b>R</b>																																	
	<table border="1"> <thead> <tr> <th>Code</th> <th>Wattage</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>1/16S</td> <td>0.063W</td> <td>0402</td> </tr> <tr> <td>1/16</td> <td>0.100W</td> <td>0603</td> </tr> <tr> <td>1/10</td> <td>0.125W</td> <td>0805</td> </tr> <tr> <td>1/8</td> <td>0.250W</td> <td>1206</td> </tr> </tbody> </table>	Code	Wattage	Size	1/16S	0.063W	0402	1/16	0.100W	0603	1/10	0.125W	0805	1/8	0.250W	1206	<table border="1"> <thead> <tr> <th>TCR</th> </tr> </thead> <tbody> <tr> <td>T1 = 100ppm</td> </tr> <tr> <td>T2 = 50ppm</td> </tr> </tbody> </table>	TCR	T1 = 100ppm	T2 = 50ppm	<table border="1"> <thead> <tr> <th>Tolerance</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>0.5%</td> <td>E96</td> </tr> <tr> <td>1%</td> <td>E96</td> </tr> </tbody> </table>	Tolerance	Values	0.5%	E96	1%	E96	<table border="1"> <thead> <tr> <th>SEI Types</th> <th>Pkg Qty</th> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>1/16S</td> <td>10,000</td> <td rowspan="2">Paper</td> <td rowspan="2">R</td> </tr> <tr> <td>1/16, 1/10, 1/8</td> <td>5,000</td> </tr> </tbody> </table>	SEI Types	Pkg Qty	Description	Code	1/16S	10,000	Paper	R	1/16, 1/10, 1/8	5,000
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