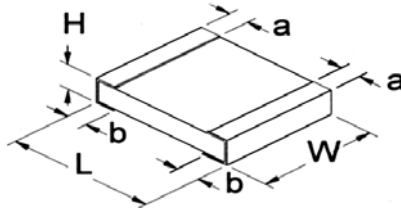


- Features:
- Precision performance
 - Tolerances of +0.5% and ±1%
 - RoHS compliant / lead-free
 - Less sensitive to ESD discharges than comparable thin film devices
 - Highly stable performance over time
 - Power derating from 100% at 70°C to zero at 150°C
 - Temperature coefficient of resistance of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



Electrical Specifications							
Type / Code	Old Package Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance	
						0.5%	1%
RGC0402	1/16S	0.063W	50V	100V	± 50 ppm/°C ± 100 ppm/°C	100 - 1M 4.02 - 97.6	100 - 1M 4.02 - 97.6
RGC0603	1/16	0.1W	50V	100V	± 50 ppm/°C	100 - 1M	100 - 1M
RGC0805	1/10	0.125W	150V	300V	± 50 ppm/°C	100 - 1M	100 - 1M
RGC1206	1/8	0.25W	200V	400V	± 50 ppm/°C ± 100 ppm/°C	100 - 1M	100 - 1M
RGC1210	1/4	0.33W	200V	400V	± 50 ppm/°C ± 100 ppm/°C	10 - 10M 10 - 1M	10 - 10M 10 - 1M
RGC2010	1/2	0.75W	200V	400V	± 50 ppm/°C ± 100 ppm/°C	10 - 10M 10 - 1M	10 - 10M 10 - 1M
RGC2512	1	1W	200V	400V	± 50 ppm/°C ± 100 ppm/°C	10 - 10M 10 - 1M	10 - 10M 10 - 1M

(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	Unit
RGC0402	0.039 ± 0.004 1.00 ± 0.10	0.020 ± 0.002 0.50 ± 0.05	0.012 ± 0.004 0.30 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	0.010 ± 0.006 0.25 ± 0.15	inches mm
RGC0603	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
RGC0805	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 ± 0.010 0.40 ± 0.25	0.016 ± 0.008 0.40 ± 0.20	inches mm
RGC1206	0.122 ± 0.006 3.10 ± 0.15	0.061 ± 0.004 1.55 ± 0.10	0.024 ± 0.006 0.60 ± 0.15	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.012 0.50 ± 0.30	inches mm
RGC1210	0.126 ± 0.010 3.20 ± 0.25	0.102 ± 0.006 2.60 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RGC2010	0.197 ± 0.008 5.00 ± 0.20	0.098 ± 0.006 2.50 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.024 ± 0.008 0.60 ± 0.20	inches mm
RGC2512	0.250 ± 0.008 6.35 ± 0.20	0.126 ± 0.008 3.20 ± 0.20	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.024 ± 0.012 0.60 ± 0.30	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

1 2 3 4 5 6 7 8 9 10 11 12 13 14

R G C 0 6 0 3 F T C 4 K 7 0

Product Series		Size		Power		Tolerance			Packaging				TCR		Resistance Value
Code	Description	Code	Value	Code	Tol	Value	Code	Description	Size	Quantity	Code	ppm	Four characters with the multiplier used as the decimal holder.		
RGC	Semi-Precision Thick Film	0402	0.063W	D	0.5%	E96	T	7" Reel Paper Tape	0402	10,000	C	50	100 ohm = 100R		
		0603	0.1W	F	1%			7" Reel Paper Tape	0603, 0805	5,000	D	100	10.5 Kohm = 10K5		
		0805	0.125W					7" Reel Plastic Tape	2010, 2512	4,000			1 Mohm = 1M00		
		1206	0.25W												
		1210	0.33W												
		2010	0.75W												
		2512	1W												

Legacy Part Number (before January 3, 2011):

SEI Type	Code	TCR	Nominal Resistance	Tolerance	Packaging																																													
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