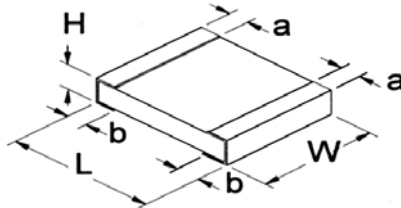


- Features:
- Precision performance
 - Tolerances of +0.5% and ±1%
 - RoHS compliant / lead-free
 - Less sensitive to ESD discharges than comparable thin film devices
 - Highly stable performance over time
 - Power derating from 100% at 70°C to zero at 150°C
 - Temperature coefficient of resistance of ±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	Tol	Code	Description	Size	Quantity	Code	ppm	
RGC	Semi-Precision Thick Film	0402	0.063W	D	0.5%	T	7" reel paper tape	0402	10,000	C	50	Four characters with the multiplier used as the decimal holder. 100 ohm = 100R 10.5 Kohm = 10K5 1 Mohm = 1M00
		0603	0.1W	F	1%				0603, 0805	5,000	D	
		0805	0.125W				7" reel plastic tape	1206, 1210				
		1206	0.25W						2010, 2512	4,000		
		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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