

- Features:
- Gold terminations are completely impervious to sulfur
 - Zero ohm available (max resistance 0.05Ω)
 - RoHS compliant / lead-free



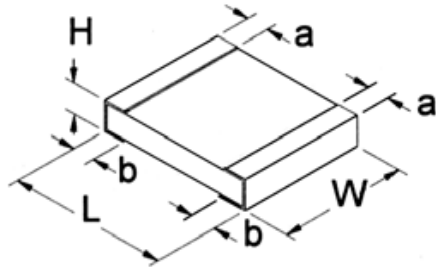
Electrical Specifications								
Type / Code	Package Size	Old Packaging	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance	
							1%	2%, 5%
RMCG0402	0402	1/16S	0.063W	50V	100V	-0/+600 ppm/°C ± 350 ppm/°C ± 200 ppm/°C ± 350 ppm/°C	1 - 3.6 3.9 - 9.1 10 - 1M 1.1M - 10M	1 - 3.6 3.9 - 9.1 10 - 1M 1.1M - 10M
RMCG0603	0603	1/16	0.100W	50V	100V	± 350 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 350 ppm/°C	1 - 9.1 - 10 - 1M 1.1M - 10M	1 - 9.1 10 - 1M - 1.1M - 10M
RMCG0805	0805	1/10	0.125W	150V	300V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1 - 3.6 3.9 - 9.1 - 10 - 1M 1.1M - 5.1M 5.6M - 10M	1 - 3.6 3.9 - 9.1 10 - 1M - 1.1M - 5.1M 5.6M - 10M
RMCG1206	1206	1/8	0.250W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1 - 3.6 3.9 - 9.1 - 10 - 1M 1.1M - 5.1M 5.6M - 10M	1 - 3.6 3.9 - 9.1 10 - 1M - 1.1M - 5.1M 5.6M - 10M
RMCG1210	1210	1/4	0.333W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1 - 3.6 3.9 - 9.1 - 10 - 1M 1.1M - 5.1M 5.6M - 10M	1 - 3.6 3.9 - 9.1 10 - 1M - 1.1M - 5.1M 5.6M - 10M
RMCG2010	2010	1/2	0.750W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1 - 2 2.2 - 9.1 - 10 - 1M 1.1M - 5.1M 5.6M - 10M	1 - 3.6 3.9 - 9.1 10 - 1M - 1.1M - 5.1M 5.6M - 10M
RMCG2512	2512	1	1.000W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1 - 3.6 3.9 - 9.1 - 10 - 1M 1.1M - 5.1M 5.6M - 10M	1 - 3.6 3.9 - 9.1 10 - 1M - 1.1M - 5.1M 5.6M - 10M

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

Performance Characteristics

Test	Test Conditions (JIS C 5202)	Test Results
Short Time Overload	2.5x rated voltage for 5 seconds	$\pm (2\% + 0.1\Omega)$
Dielectric Withstanding Voltage	100 VAC, 1 minute	$\pm (1\% + 0.05\Omega)$
Resistance to Soldering Heat	260°C $\pm 5^\circ\text{C}$, for 10 sec. ± 0.5 sec. (Solder Bath)	$\pm (1\% + 0.05\Omega)$
Solderability	245°C $\pm 5^\circ\text{C}$, for 3 sec. ± 0.5 sec. (Colophonium flux)	95% coverage, minimum
Temperature Cycle (100 cycles)	-55°C: 30 min. 25°C: 2 to 3 min. 125°C: 30 min. 25°C: 2 to 3 min.	$\pm (1\% + 0.05\Omega)$ Jumper ($<0.05\Omega$)
Endurance (Damp load)	60°C $\pm 2^\circ\text{C}$, 90% RH, Rated Load 90 min. On, 30 min. Off (1,000 hrs. -0hrs. +48hrs.)	$\pm (3\% + 0.1\Omega)$ Jumper ($<0.05\Omega$)
Endurance (Rated load)	70°C $\pm 2^\circ\text{C}$, Rated Load 90 min. On, 30 min. Off (1,000 hrs. -0hrs. +48hrs.)	$\pm (3\% + 0.1\Omega)$ Jumper ($<0.05\Omega$)
Voltage Coefficient	1/10 rated voltage for 3 sec. max. then rated voltage for 3 sec. max.	± 100 (ppm/V)
Robustness of Termination	Bend of 3mm for 5 $\pm$ 1 sec.	$\pm (1\% + 0.05 \text{ Ohm})$

Operating Temperature Range: -55°C to +125°C (0402)
-55°C to +155°C (0603 - 2512)



Mechanical Specifications

Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RMCG0402	0.039 $\pm$ 0.002 1.00 $\pm$ 0.05	0.020 $\pm$ 0.002 0.50 $\pm$ 0.05	0.014 $\pm$ 0.002 0.35 $\pm$ 0.05	0.008 $\pm$ 0.004 0.20 $\pm$ 0.10	0.010 $\pm$ 0.002 / -0.004 0.25 $\pm$ 0.05 / -0.10	inches mm
RMCG0603	0.063 $\pm$ 0.004 1.60 $\pm$ 0.10	0.031 $\pm$ 0.004 0.80 $\pm$ 0.10	0.018 $\pm$ 0.004 0.45 $\pm$ 0.10	0.012 $\pm$ 0.008 0.30 $\pm$ 0.20	0.012 $\pm$ 0.008 0.30 $\pm$ 0.20	inches mm
RMCG0805	0.079 $\pm$ 0.008 2.00 $\pm$ 0.20	0.049 $\pm$ 0.004 1.25 $\pm$ 0.10	0.020 $\pm$ 0.006 0.50 $\pm$ 0.15	0.016 $\pm$ 0.008 0.40 $\pm$ 0.20	0.016 $\pm$ 0.008 0.40 $\pm$ 0.20	inches mm
RMCG1206	0.126 $\pm$ 0.008 3.20 $\pm$ 0.20	0.063 $\pm$ 0.006 1.60 $\pm$ 0.15	0.022 $\pm$ 0.006 0.55 $\pm$ 0.15	0.020 $\pm$ 0.010 0.50 $\pm$ 0.25	0.020 $\pm$ 0.010 0.50 $\pm$ 0.25	inches mm
RMCG1210	0.126 $\pm$ 0.008 3.20 $\pm$ 0.20	0.098 $\pm$ 0.008 2.50 $\pm$ 0.20	0.022 $\pm$ 0.006 0.55 $\pm$ 0.15	0.020 $\pm$ 0.010 0.50 $\pm$ 0.25	0.020 $\pm$ 0.010 0.50 $\pm$ 0.25	inches mm
RMCG2010	0.197 $\pm$ 0.008 5.00 $\pm$ 0.20	0.098 $\pm$ 0.008 2.50 $\pm$ 0.20	0.022 $\pm$ 0.006 0.55 $\pm$ 0.15	0.024 $\pm$ 0.010 0.60 $\pm$ 0.25	0.024 $\pm$ 0.010 0.60 $\pm$ 0.25	inches mm
RMCG2512	0.248 $\pm$ 0.008 6.30 $\pm$ 0.20	0.126 $\pm$ 0.008 3.20 $\pm$ 0.20	0.022 $\pm$ 0.006 0.55 $\pm$ 0.15	0.024 $\pm$ 0.010 0.60 $\pm$ 0.25	0.024 $\pm$ 0.010 0.60 $\pm$ 0.25	inches mm

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13	14
R	M	C	G	0	4	0	2	J	T	4	K	7	0
Product Series		Size		Power		Tolerance		Packaging				Resistance Value	
RMCG	Gold Termination	0402	0.063W	Code	Tol	T	Description	Size		Quantity	Four characters with the multiplier used as the decimal holder. 3.9 ohm = 3R90 10 Kohm = 10K0 1.1 Mohm = 1M10		
		0603	0.100W	F	1%			0402		10,000			
		0805	0.125W	G	2%			0603, 0805 1206, 1210		5,000			
		1206	0.250W	J	5%			2010, 2512		4,000			
		1210	0.333W										
		2010	0.750W										
		2512	1.000W										

Legacy Part Number (before January 3, 2011):

SEI Type		Code			Nominal Resistance	Tolerance		Packaging				
RMCG		1/16			4.7K	5%		R				
Type	Description	Code	Wattage	Size			Tolerance	Values	SEI Types	Pkg Qty	Description	Code
RMCG	Gold Termination	1/16S	0.063W	0402			1%	E96, E24	1/16S	10,000	7" reel - paper tape	R
		1/16	0.100W	0603			2%	E24	1/16, 1/10, 1/8, 1/4	5,000		
		1/10	0.125W	0805			5%	E24	1/2, 1	4,000	7" reel - plastic tape	
		1/8	0.250W	1206								
		1/4	0.333W	1210								
		1/2	0.750W	2010								
		1	1.000W	2512								