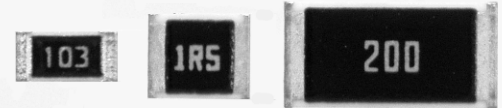


- Features:
- Gold terminations are completely impervious to sulfur
 - Zero ohm available (max resistance 0.05Ω)
 - RoHS compliant / lead-free



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	
						1%	2%, 5%
RMCG 1/16S	0402	0.063W	50V	100V	-0/+600 ppm/°C ± 350 ppm/°C ± 200 ppm/°C ± 350 ppm/°C	1Ω - 3.6Ω 3.9Ω - 9.1Ω 10Ω - 1MΩ 1.1MΩ - 10MΩ	1Ω - 3.6Ω 3.9Ω - 9.1Ω 10Ω - 1MΩ 1.1MΩ - 10MΩ
RMCG 1/16	0603	0.100W	50V	100V	± 350 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 350 ppm/°C	1Ω - 9.1Ω - 10Ω - 1MΩ 1.1MΩ - 10MΩ	1Ω - 9.1Ω 10Ω - 1MΩ - 1.1MΩ - 10MΩ
RMCG 1/10	0805	0.125W	150V	300V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1Ω - 3.6Ω 3.9Ω - 9.1Ω -- 10Ω - 1MΩ 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ	1Ω - 3.6Ω 3.9Ω - 9.1Ω 10Ω - 1MΩ - 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ
RMCG 1/8	1206	0.250W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1Ω - 3.6Ω 3.9Ω - 9.1Ω - 10Ω - 1MΩ 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ	1Ω - 3.6Ω 3.9Ω - 9.1Ω 10Ω - 1MΩ - 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ
RMCG 1/4	1210	0.333W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1Ω - 3.6Ω 3.9Ω - 9.1Ω - 10Ω - 1MΩ 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ	1Ω - 3.6Ω 3.9Ω - 9.1Ω 10Ω - 1MΩ - 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ
RMCG 1/2	2010	0.750W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1Ω - 2Ω 2.2Ω - 9.1Ω - 10Ω - 1MΩ 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ	1Ω - 3.6Ω 3.9Ω - 9.1Ω 10Ω - 1MΩ - 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ
RMCG 1	2512	1.000W	200V	400V	± 350 ppm/°C ± 250 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 250 ppm/°C ± 350 ppm/°C	1Ω - 3.6Ω 3.9Ω - 9.1Ω - 10Ω - 1MΩ 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ	1Ω - 3.6Ω 3.9Ω - 9.1Ω 10Ω - 1MΩ - 1.1MΩ - 5.1MΩ 5.6MΩ - 10MΩ

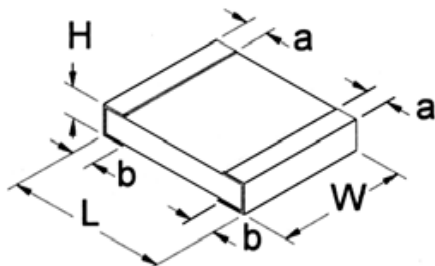
① Lesser of √PR or maximum working voltage.

How to Order

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 R
		1/16	0.100W	0603		2%	E24	1/16, 1/10, 1/8	5,000	
		1/10	0.125W	0805		5%	E24	1/4, 1/2, 1	4,000	
		1/8	0.250W	1206						
		1/4	0.333W	1210						
		1/2	0.750W	2010						
		1	1.000W	2512						

Performance Characteristics		
Test	Test Conditions (JIS C 5202)	Test Results
Short Time Overload	2.5x rated voltage for 5 seconds	± (2% + 0.1Ω)
Dielectric Withstanding Voltage	100 VAC, 1 minute	± (1% + 0.05Ω)
Resistance to Soldering Heat	260°C ±5°C, for 10 sec. ±0.5 sec. (Solder Bath)	± (1% + 0.05Ω)
Solderability	245°C ±5°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.	±(1% + 0.05Ω) Jumper (<0.05Ω)
Endurance (Damp load)	60°C ± 2°C, 90% RH, Rated Load 90 min. On, 30 min. Off (1,000 hrs. -0hrs. +48hrs.)	±(3% + 0.1Ω) Jumper (<0.05Ω)
Endurance (Rated load)	70°C ± 2°C, Rated Load 90 min. On, 30 min. Off (1,000 hrs. -0hrs. +48hrs.)	±(3% + 0.1Ω) Jumper (<0.05Ω)
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 ± 1 sec.	± (1% + 0.05 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	Units
RMCG 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
RMCG 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
RMCG 1/10	0.079 ± 0.008 2.00 ± 0.20	0.049 ± 0.004 1.25 ± 0.10	0.020 ± 0.006 0.50 ± 0.15	0.016 ± 0.008 0.40 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
RMCG 1/8	0.126 ± 0.008 3.20 ± 0.20	0.063 ± 0.006 1.60 ± 0.15	0.021 ± 0.006 0.55 ± 0.15	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.010 0.50 ± 0.25	inches mm
RMCG 1/4	0.126 ± 0.008 3.20 ± 0.20	0.098 ± 0.008 2.50 ± 0.20	0.021 ± 0.006 0.55 ± 0.15	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.010 0.50 ± 0.25	inches mm
RMCG 1/2	0.197 ± 0.008 5.00 ± 0.20	0.098 ± 0.008 2.5 ± 0.20	0.021 ± 0.006 0.55 ± 0.15	0.024 ± 0.010 0.60 ± 0.25	0.024 ± 0.010 0.60 ± 0.25	inches mm
RMCG 1	0.248 ± 0.008 6.30 ± 0.20	0.126 ± 0.008 3.20 ± 0.20	0.021 ± 0.006 0.55 ± 0.15	0.024 ± 0.010 0.60 ± 0.25	0.024 ± 0.010 0.60 ± 0.25	inches mm