THICK FILM CHIP RESISTORS

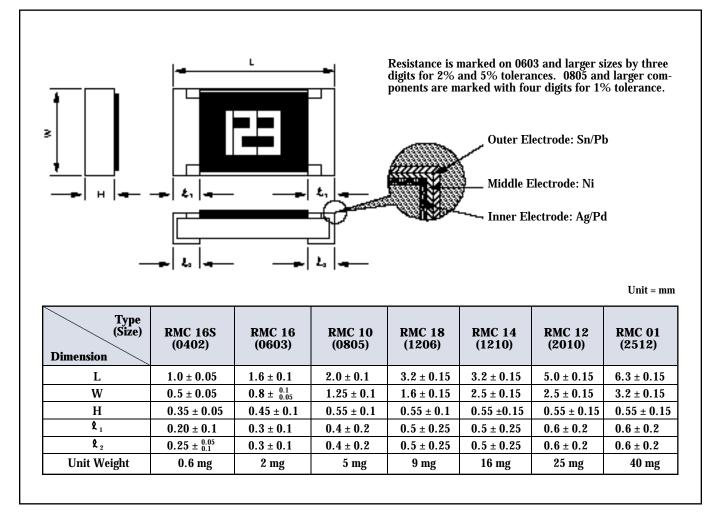
RMC 16S, 16, 10, 18, 14, 12, 01

Rugged and easy to use, Kamaya thick film chip resistors are suitable for a wide range of soldering methods and are ideal for use with high-speed automatic insertion machinery. They are best suited for commercial, industrial and automotive applications.

FEATURES

- 1. A wide range of values and power ratings for design flexibility.
- 2. Excellent solderability for all soldering methods due to superior termination composition/construction.
- 3. Thick film Ruthenium Oxide element for excellent stability.
- 4. Operating temperatures range from -55 to 125°C.

DIMENSIONS AND STRUCTURE



RATINGS

Type (Size)	Rated Power @ 70°C W	Maximum Working Voltage V	Maximum Overload Voltage V	Resistance Temp. Coefficient ppm/°C	Resistance Range And T olerance			
					± 1% (F) E ₉₆ Series	± 2% (G) E ₂₄ Series	± 5% (J) E ₂₄ Series	
RMC 16S (0402)	0.063	50	100	± 100 ± 200	100 to 1 M 10 to 97.6	— 10 to 1 M	— 10 to 5.6 M	
				+ 500/- 200	—		1 to 9.1	
RMC 16 (0603)	0.063	50	100	± 100 ± 200	100 to 1 M 10 to 97.6	— 10 to 1 M	— 10 to 10 M	
RMC 10	0.10			+ 500/- 200 ± 100	— 10 to 1 M	—	1 to 9.1 —	
(0805)	0.125	150	300	± 200 + 500/- 200	1.02 M to 10 M —	10 to 10 M 1 to 9.1	10 to 22 M 1 to 9.1	
RMC 18 (1206)	0.125	200	400	± 100 ± 200	10 to 1 M 1.02 M to 10 M		— 10 to 22 M	
RMC 14 (1210)	0.25	200	400	+ 500/- 200 ± 100 ± 200	1 to 9.76 10 to 1 M	1 to 9.1 — 10 to 1 M	1 to 9.1 — 10 to 20 M	
				+ 500/- 200		<u> </u>	1 to 9.1	
RMC 12 (2010) RMC 01 (2512)	0.50	200	400	± 100 ± 200	10 to 1 M —	— 10 to 1 M	— 10 to 20 M	
				+ 500/- 200 ± 100			1 to 9.1	
	1.0	200	400	± 200		10 to 1 M	10 to 20 M	
				+ 500/- 200	—	—	1 to 9.1	

1) T.C.R. less than 100 ppm and resistance tolerances less than 1% available in RGC and RNC series.

2) Resistance values less than 1.0 available in RLC series.

3) For use as jumper, RMC 16S and RMC 16 rated at 1.0 amp maximum, all others 2 amps maximum. Maximum DCR of 50 m

4) RMC 10 can be operated up to 1/8 watt @ 70°C and RMC 18 can be operated up to 1/4 watt @ 70°C provided the surface temperature of the resistor does not exceed 125°C.

PERFORMANCE CHARACTERISTICS

DESCRIPTION	DESCRIPTION PERFORMANCE		TEST METHOD JIS C5202		
Resistance Temperature Coefficient	As specified in table	section 5.2	Measuring temperature +25°C/-55°C/+25°C/+125°C		
Short-time Overload	± 1.0% maximum	section 5.5	Rated voltage x2.5, 5 seconds		
Terminal Strength	± 1.0% maximum	section 6.1.4	Install a sample on the board and bend board 5/45mm for 10 seconds (1/2 and 1 are 3/45mm)		
Solder-Heat Resistance	± 1.0% maximum	section 6.10	Dip into 260°C solder bath for 10 seconds		
Solderability	95% minimum coverage	section 6.11	After dipping into flux dip into 235°C solder bath for 2 seconds		
Temperature Cycle	± 1.0% maximum	section 7.4	Cycle between -55°C and + 125°C for 5 cycles		
Load Life in Moistur e	± 2.0% maximum	section 7.9	Rated voltage 1.5 hours "ON" 0.5 hours "OFF" 40°C 95%RH 1,000 Hours		
Load Life	± 2.0% maximum	section 7.10	Rated voltage 1.5 hours "ON" 0.5 hours "OFF" 70°C. 1,000 Hours		

PART NUMBER SYSTEM

