

- Features:
- Inner terminations engineered to deter sulfur contamination
  - Non-standard resistance values available
  - Operating temp range from -55°C to +155°C
  - Zero ohm available (max resistance 0.05Ω)
  - RoHS compliant

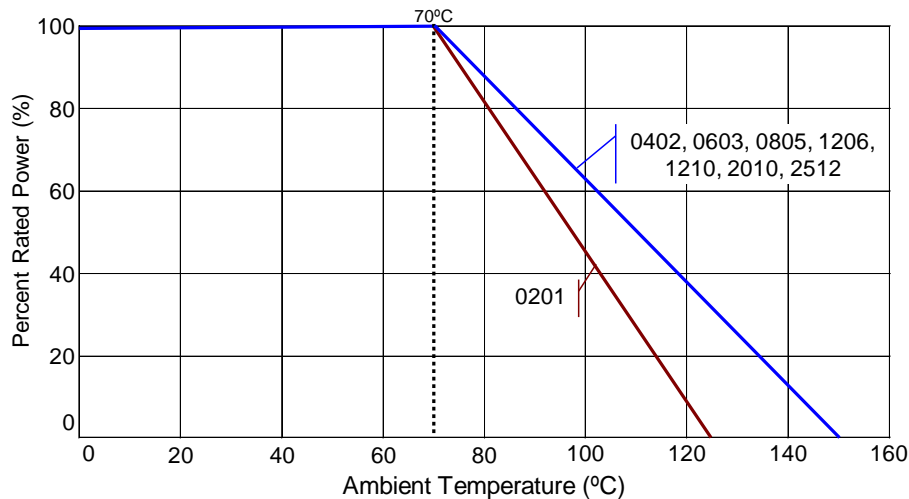


Electrical Specifications								
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage <sup>(1)</sup>	Maximum Overload Voltage <sup>(2)</sup>	Maximum Current Jumper (Amp)	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
						0.5%	1%	5%
RMCS0201	0.05W	25V	50V	1 amp	± 200 ppm/°C	-	1 - 10M	
RMCS0402	0.063W	50V	100V	1 amp	± 200 ppm/°C	1 - 9.76		
					± 100 ppm/°C	10 - 1M		
					± 200 ppm/°C	1.02M - 10M		
RMCS0603	0.1W	50V	100V	1 amp	± 200 ppm/°C	1 - 9.76		
					± 100 ppm/°C	10 - 1M		
					± 200 ppm/°C	1.02M - 10M		
RMCS0805	0.125W	150V	300V	2 amps	± 200 ppm/°C	1 - 9.76		
					± 100 ppm/°C	10 - 1M		
					± 200 ppm/°C	1.02M - 10M		
RMCS1206	0.25W	200V	400V	2 amps	± 200 ppm/°C	1 - 9.76		
					± 100 ppm/°C	10 - 1M		
					± 200 ppm/°C	1.02M - 10M		
RMCS1210	0.33W	200V	400V	2.5 amps	± 200 ppm/°C	1 - 9.76		
					± 100 ppm/°C	10 - 1M		
					± 200 ppm/°C	1.02M - 10M		
RMCS2010	0.75W	200V	400V	3.5 amps	± 200 ppm/°C	1 - 9.76		
					± 100 ppm/°C	10 - 1M		
					± 200 ppm/°C	1.02M - 10M		
RMCS2512	1W	250V	500V	4 amps	± 200 ppm/°C	1 - 9.76		
					± 100 ppm/°C	10 - 1M		
					± 200 ppm/°C	1.02M - 10M		

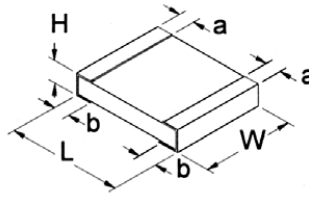
(1) Lesser of  $\sqrt{P \cdot R}$  or maximum working voltage

(2)  $2.5 \cdot \sqrt{P \cdot R}$  or Max. Overload Voltage listed above, whichever is lower.

**Power Derating Curve:**



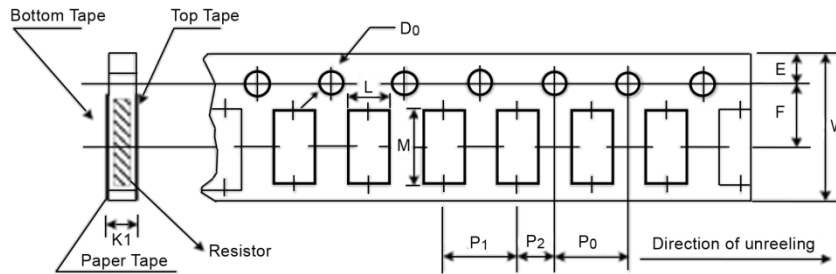
**Mechanical Specifications**



Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RMCS0201	0.024 ± 0.001 0.60 ± 0.03	0.012 ± 0.001 0.30 ± 0.03	0.009 ± 0.001 0.23 ± 0.03	0.006 ± 0.002 0.15 ± 0.05	0.006 ± 0.002 0.15 ± 0.05	inches mm
RMCS0402	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	0.008 ± 0.004 0.20 ± 0.10	inches mm
RMCS0603	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
RMCS0805	0.079 ± 0.004 2.00 ± 0.10	0.049 ± 0.004 1.25 ± 0.10	0.020 ± 0.004 0.50 ± 0.10	0.014 ± 0.008 0.35 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
RMCS1206	0.122 ± 0.004 3.10 ± 0.10	0.061 ± 0.004 1.55 ± 0.10	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
RMCS1210	0.122 ± 0.004 3.10 ± 0.10	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
RMCS2010	0.197 ± 0.004 5.00 ± 0.10	0.098 ± 0.006 2.50 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RMCS2512	0.250 ± 0.004 6.35 ± 0.10	0.122 ± 0.006 3.10 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm

**Packaging Specifications**

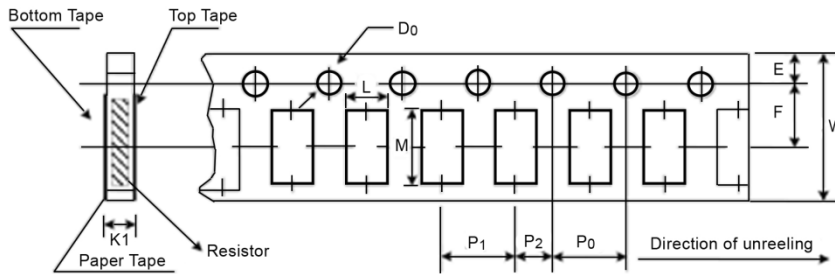
Paper Tape



Type	L	M	W	E	F	Unit
RMCS0201	0.015 ± 0.002 0.38 ± 0.05	0.027 ± 0.002 0.68 ± 0.05	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCS0402	0.026 ± 0.004 0.65 ± 0.10	0.045 ± 0.004 1.15 ± 0.10	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCS0603	0.043 ± 0.004 1.10 ± 0.10	0.075 ± 0.004 1.90 ± 0.10	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCS0805	0.063 ± 0.004 1.60 ± 0.10	0.094 ± 0.008 2.40 ± 0.20	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCS1206	0.075 ± 0.004 1.90 ± 0.10	0.138 ± 0.008 3.50 ± 0.20	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCS1210	0.110 ± 0.004 2.80 ± 0.10	0.138 ± 0.008 3.50 ± 0.20	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm

**Packaging Specifications**

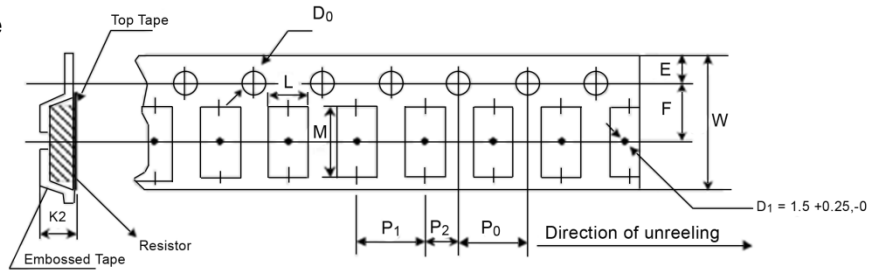
Paper Tape



Type	$P_0$	$P_1$	$P_2$	$\varnothing D_0$	$K1/K2$	Unit
RMCS0201	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.017 \pm 0.008$ $0.42 \pm 0.20$	inches mm
RMCS0402	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.018 \pm 0.004$ $0.45 \pm 0.10$	inches mm
RMCS0603	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.028 \pm 0.004$ $0.70 \pm 0.10$	inches mm
RMCS0805	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.033 \pm 0.004$ $0.85 \pm 0.10$	inches mm
RMCS1206	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.033 \pm 0.004$ $0.85 \pm 0.10$	inches mm
RMCS1210	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.033 \pm 0.004$ $0.85 \pm 0.10$	inches mm

**Packaging Specifications**

Embossed Plastic Tape

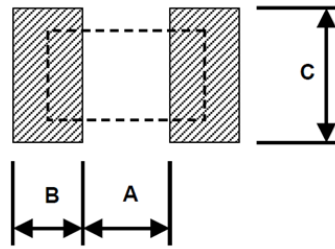


Type	$L$	$M$	$W$	$E$	$F$	Unit
RMCS2010	$0.110 \pm 0.008$ $2.80 \pm 0.20$	$0.217 \pm 0.008$ $5.50 \pm 0.20$	$0.472 \pm 0.012$ $12.00 \pm 0.30$	$0.069 \pm 0.004$ $1.75 \pm 0.10$	$0.217 \pm 0.002$ $5.50 \pm 0.05$	inches mm
RMCS2512	$0.138 \pm 0.008$ $3.50 \pm 0.20$	$0.264 \pm 0.008$ $6.70 \pm 0.20$	$0.472 \pm 0.012$ $12.00 \pm 0.30$	$0.069 \pm 0.004$ $1.75 \pm 0.10$	$0.217 \pm 0.002$ $5.50 \pm 0.05$	inches mm

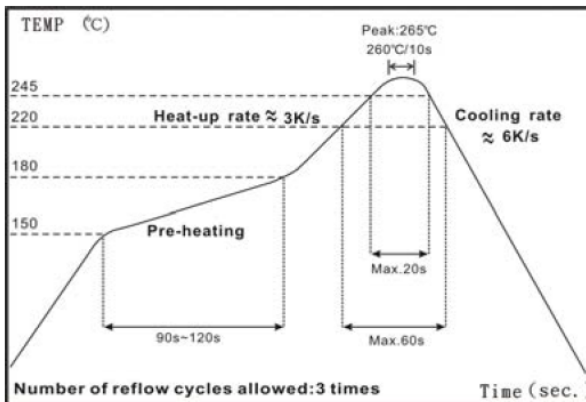
Type	$P_0$	$P_1$	$P_2$	$\varnothing D_0$	$K1/K2$	Unit
RMCS2010	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.047 - 0$ $1.20 - 0$	inches mm
RMCS2512	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.157 \pm 0.004$ $4.00 \pm 0.10$	$0.079 \pm 0.002$ $2.00 \pm 0.05$	$0.059 \pm 0.004$ $1.50 \pm 0.10$	$0.047 - 0$ $1.20 - 0$	inches mm

**Solder Land Pattern**

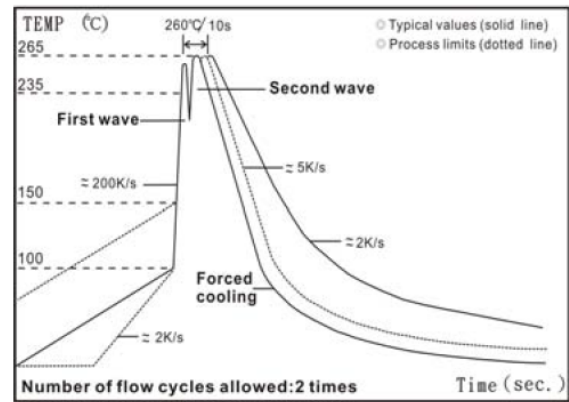


Type / Code	A	B	C	Unit
RMCS0201	0.012 0.30	0.010 0.25	0.012 0.30	inches mm
RMCS0402	0.020 0.50	0.018 0.45	0.024 0.60	inches mm
RMCS0603	0.035 0.90	0.024 0.60	0.035 0.90	inches mm
RMCS0805	0.047 1.20	0.028 0.70	0.051 1.30	inches mm
RMCS1206	0.079 2.00	0.035 0.90	0.063 1.60	inches mm
RMCS1210	0.079 2.00	0.035 0.90	0.110 2.80	inches mm
RMCS2010	0.150 3.80	0.035 0.90	0.110 2.80	inches mm
RMCS2512	0.150 3.80	0.063 1.60	0.138 3.50	inches mm

**Soldering Condition**



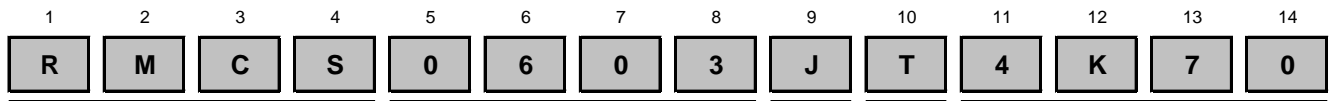
IR Reflow Soldering



Wave Soldering (Flow Soldering)

- (1) Time of IR reflow soldering at maximum temperature point 260°C:10s
- (2) Time of wave soldering at maximum temperature point 260°C:10s
- (3) Time of soldering iron at maximum temperature point 410°C:5s

**How to Order**



Product Series		Size	Power	Tolerance			Packaging				Resistance Value	
RMCS	Sulfur Resistant			Code	Tol	Value	Code	Description	Size	Quantity		
		0201	0.05W	D	0.5%	E96, E24	G	10" Reel - Paper Tape	0201, 0402	15,000	Four characters with the multiplier used as the decimal holder. 1 ohm = 1R00 100 Kohm = 100K 1.02 Mohm = 1M02 Zero ohm jumper = 0R00	
		0402	0.063W	F	1%					0201, 0402		10,000
		0603	0.1W	J	5%	E24	T	7" Reel - Paper Tape	0603, 0805	5,000		
		0805	0.125W	Z	Jumper				1206, 1210			
		1206	0.25W					7" Reel - Plastic Tape	2010, 2512	4,000		
		1210	0.33W									
		2010	0.75W									
		2512	1W									