

Features:

- Small size and light weight
- Reliability and high quality
- “-HP” denotes high power
- “-UP” denotes ultra-high power
- Inner termination engineered to deter sulfur contamination
- AEC-Q200 qualified
- RoHS compliant and halogen free
- REACH compliant



Electrical Specifications - RMCA

Type/Code	Power Rating (W) @ 70°C	Maximum Working Voltage ⁽¹⁾ (V)	Maximum Overload Voltage (V)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance			
					0.1%, 0.5%	1%	5%	10%
RMCA0402	0.063	0.12 - 0.25	0.624	± 1000	-	0.22 - 0.45		-
				± 800	-	0.475 - 0.976	0.47 - 0.91	-
		50	100	± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
				± 100	10 - 1M	10 - 10M		-
RMCA0603	0.1	0.1 - 0.31	0.775	± 1000	-	0.075 - 0.976		-
				± 800	-	0.1 - 0.324	0.1 - 0.33	-
		75	150	± 600	-	0.332 - 0.976	0.36 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA0805	0.125	0.04 - 0.35	0.875	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		150	300	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA1206	0.25	0.05 - 0.5	1.25	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA1210	0.5	0.07 - 0.7	1.75	± 1800	-	0.01 - 0.05	0.01 - 0.05	-
				± 800	-	0.051 - 0.1	0.051 - 0.1	-
		200	400	± 600	-	0.102 - 0.976	0.11 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA2010	0.75	0.08 - 0.8	2.15	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA2010	0.75	0.08 - 0.8	2.15	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA2010	0.75	0.08 - 0.8	2.15	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA2010	0.75	0.08 - 0.8	2.15	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA2010	0.75	0.08 - 0.8	2.15	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA2010	0.75	0.08 - 0.8	2.15	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-
RMCA2010	0.75	0.08 - 0.8	2.15	± 1800	-	0.01 - 0.049		-
				± 800	-	0.05 - 0.976		-
		200	400	± 600	-	0.1 - 0.976	0.1 - 0.91	-
				± 400	-	1 - 9.76		-
				± 200	-	10.2M - 29.4M	11M - 30M	-

Electrical Specifications - RMCA (cont.)

Type/Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage ⁽¹⁾	Maximum Overload Voltage	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance			
					0.1%	1%	5%	10%
RMCA2512	1	0.1 - 0.99	2.475	± 1800	-	0.01 - 0.049		-
				± 800		0.05 - 0.976		
				± 600		0.1 - 0.976	0.1 - 0.91	
		200	400	± 400	-	1 - 9.76		-
				± 200		10.2M - 29.4M	11M - 30M	
				± 100		10 - 1M	10 - 10M	

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

Operating Temperature Range: -55°C ~ +155°C

Electrical Specifications – RMCA_-HP

Type/Code	Power Rating (W) @ 70°C	Maximum Working Voltage ⁽¹⁾ (V)	Maximum Overload Voltage (V)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance
					1% and 5%
RMCA0402_-HP	0.1	0.15 - 0.31	0.786	± 1000	0.22 - 0.45
				± 800	0.46 - 0.97
		50	100	± 400	1 - 9.76
				± 100	10 - 10M
				± 200	10.1M - 30M
RMCA0603_-HP	0.125	0.1 - 0.35	0.879	± 1000	0.075 - 0.097
				± 800	0.1 - 0.33
		75	150	± 600	0.34 - 0.97
				± 400	1 - 9.76
				± 100	10 - 10M
RMCA0805_-HP	0.25	0.05 - 0.5	1.244	± 200	10.1M - 30M
				± 1800	0.01 - 0.049
		150	300	± 800	0.05 - 0.097
				± 600	0.1 - 0.97
				± 400	1 - 9.76
RMCA1206_-HP	0.5	0.07 - 0.7	1.759	± 100	10 - 10M
				± 200	10.1M - 30M
		200	400	± 1800	0.01 - 0.049
				± 800	0.05 - 0.097
				± 600	0.1 - 0.97
RMCA1210_-HP	0.66	0.07 - 0.7	1.759	± 400	1 - 9.76
				± 100	10 - 10M
		200	400	± 200	10.1M - 30M
				± 1800	0.01 - 0.049
				± 800	0.05 - 0.097
RMCA2010_-HP	1	0.1 - 0.99	2.487	± 600	0.1 - 0.97
				± 400	1 - 9.76
		200	400	± 100	10 - 10M
				± 200	10.1M - 30M
				± 1800	0.01 - 0.049
RMCA2512_-HP	2	0.14 - 1.41	3.518	± 800	0.05 - 0.097
				± 600	0.1 - 0.97
		200	400	± 400	1 - 9.76
				± 100	10 - 10M
				± 200	10.1M - 30M

Electrical Specifications – Ultra-high Power

Type/Code	Power Rating (W) @ 70°C	Maximum Working Voltage ⁽¹⁾ (V)	Maximum Overload Voltage (V)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance	
					0.5%	1% and 5%
RMCA0402_-UP	0.2	50	100	± 400 ± 100	- 10 - 1M	1 - 9.76 10 - 10M
RMCA0603_-UP	0.33	75	125	± 400 ± 100	- 10 - 1M	1 - 9.76 10 - 10M
RMCA0805_-UP	0.5	200	300	± 400 ± 100	- 10 - 1M	1 - 9.76 10 - 10M
RMCA1206_-UP	0.75	200	400	± 400 ± 100	- 10 - 1M	1 - 9.76 10 - 10M
RMCA1210_-UP	1			± 400 ± 100	- 10 - 1M	1 - 9.76 10 - 10M
RMCA2010_-UP	1.5			± 400 ± 150	- 10 - 1M	1 - 9.76 10 - 10M
RMCA2512_-UP	3			± 400 ± 150	- 10 - 1M	1 - 9.76 10 - 10M

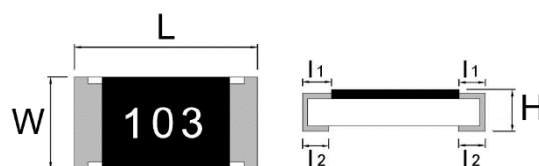
Electrical Specifications – RMCA Jumper

Type	0402	0603	0805	1206	1210	1812	2010	2512
Jumper Resistance Value (Ω)	0.05 Ω Max							
Jumper Rated Current (A)	1				2			

Electrical Specifications – High Power Jumper

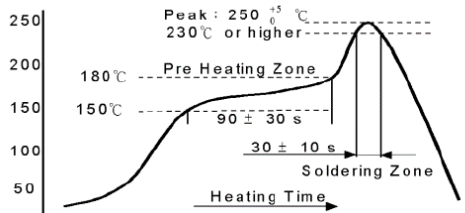
Type	0402	0603	0805	1206	1210	1812	2010	2512
Jumper Resistance Value (Ω)	0.02 Ω Max							
Jumper Rated Current (A)	2	2.5	3.5	5	6	7	7	10
Max. Overload Current (A) < 1 second and 1 time	6	9	13	16	19	22	22	30

Mechanical Specifications



Type/Code	L Body Length	W Body Width	H Body Height	l ₁ Top Termination	l ₂ Bottom Termination	Unit
RMCA0402	0.039 ± 0.004 1.00 ± 0.10	0.020 ± 0.002 0.50 ± 0.05	0.012 ± 0.002 0.30 ± 0.05	0.006 ± 0.004 0.15 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	inches mm
RMCA0603	0.063 ± 0.008 1.60 ± 0.20	0.031 ± 0.006 0.80 ± 0.15	0.016 ± 0.004 0.40 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.012 ± 0.004 0.30 ± 0.10	inches mm
RMCA0805	0.079 ± 0.008 2.00 ± 0.20	0.049 ± 0.006 1.25 ± 0.15	0.020 ± 0.006 0.50 ± 0.15	0.012 ± 0.006 0.30 ± 0.15	0.016 ± 0.006 0.40 ± 0.15	inches mm
RMCA1206	0.120 ± 0.004 3.05 ± 0.10	0.063 ± 0.008 1.60 ± 0.20	0.022 ± 0.006 0.55 ± 0.15	0.016 ± 0.008 0.40 ± 0.20	0.020 ± 0.008 0.50 ± 0.20	inches mm
RMCA1210	0.120 ± 0.004 3.05 ± 0.10	0.098 ± 0.008 2.50 ± 0.20	0.022 ± 0.006 0.55 ± 0.15	0.020 ± 0.008 0.50 ± 0.20	0.020 ± 0.008 0.50 ± 0.20	inches mm
RMCA2010	0.197 ± 0.008 5.00 ± 0.20	0.098 ± 0.008 2.50 ± 0.20	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.008 0.60 ± 0.20	0.024 ± 0.008 0.60 ± 0.20	inches mm
RMCA2512	0.248 ± 0.008 6.30 ± 0.20	0.126 ± 0.008 3.20 ± 0.20	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.008 0.60 ± 0.20	0.024 ± 0.008 0.60 ± 0.20	inches mm
RMCA2512_-HP	0.248 ± 0.008 6.30 ± 0.20	0.126 ± 0.008 3.20 ± 0.20	0.026 ± 0.006 0.65 ± 0.15	0.024 ± 0.008 0.60 ± 0.20	0.024 ± 0.008 0.60 ± 0.20	inches mm
RMCA2512_-UP	0.248 ± 0.008 6.30 ± 0.20	0.126 ± 0.008 3.20 ± 0.20	0.027 ± 0.006 0.68 ± 0.15	0.024 ± 0.008 0.60 ± 0.20	0.024 ± 0.008 0.60 ± 0.20	inches mm

Performance Characteristics

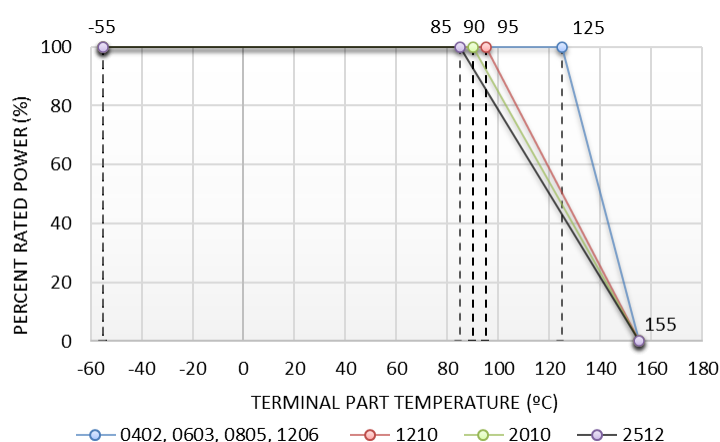
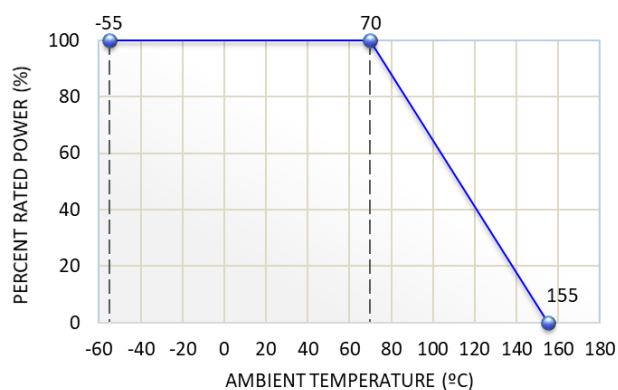
Test	Test Method	Test Specification	Test Condition
Temperature Coefficient of Resistance (TCR)	JIS C-5201-1 4.8 IEC-60115-1 4.8	Refer to Electrical Specifications table	At 25°C/-55°C and 25°C/+155°C, 25°C is the reference temperature
Short Time Overload	JIS-C-5201-1 4.13 IEC-60115-1 4.13	± 1 : $\pm(1\% + 0.05 \Omega)$ ± 5 : $\pm(2\% + 0.1 \Omega)$ Value $< 1 \Omega$: $\pm(2\% + 0.1 \Omega)$	RMCA: 2.5 times RCWV or Max. Overload voltage, whichever is less for 5 seconds
			RMCA-HP 2.5 times RCWV or Max. Overload voltage, whichever is less for 2 seconds
			RMCA-UP 5 times Rated Power or Max. Overload voltage, whichever is less for 5 seconds
IR Reflow		± 1 : $\pm(1\% + 0.05 \Omega)$ ± 5 : $\pm(1\% + 0.05 \Omega)$	 The graph shows a temperature profile for IR reflow. The y-axis is temperature in °C (50 to 250) and the x-axis is heating time in seconds (0 to 100). The profile starts at 150°C, rises to a pre-heating zone at 180°C, then to a peak of 250°C (with a tolerance of +5/-0°C) or higher. The peak is labeled '230°C or higher'. The time from 150°C to the peak is 90 ± 30 s. The time from the peak to the end of the heating time is 30 ± 10 s. The region between 180°C and the peak is labeled 'Pre Heating Zone', and the region after the peak is labeled 'Soldering Zone'.
Leaching	JIS-C-5201-1 4.18 IEC-60068-2-58 8.2.1	Individual leaching area $\leq 5\%$ Total leaching area $\leq 10\%$	260°C $\pm 5^\circ\text{C}$ for 30 seconds
Soldering Heat	JIS-C-5201-1 4.18 IEC-60068-2-58 8.2.1	± 1 : $\pm(0.5\% + 0.05 \Omega)$ ± 5 : $\pm(1\% + 0.05 \Omega)$ Value $< 1 \Omega$: $\pm(1\% + 0.05 \Omega)$	260°C $\pm 5^\circ\text{C}$ for 10 seconds
Temperature Cycling	JIS C-5201-1 clause 4.19	0.1%, 0.5%, 1%: $\pm(0.5\% + 0.05 \Omega)$ 5%: $\pm(1\% + 0.1 \Omega)$ Values $< 1 \Omega$: $\pm(1\% + 0.1 \Omega)$	-55°C to +155°C, 5 cycles
Electric Iron		± 1 : $\pm(1\% + 0.05 \Omega)$ ± 5 : $\pm(1\% + 0.05 \Omega)$ Values $< 1 \Omega$: $\pm(1\% + 0.05 \Omega)$	Preheating temperature: 350°C $\pm 10^\circ\text{C}$ Electric iron preheating time: 3 + 1/-0 seconds
Resistance to Solvent	JIS C-5201-1 clause 4.29	1%: $\pm(0.5\% + 0.05 \Omega)$ 5%: $\pm(0.5\% + 0.05 \Omega)$ Values $< 1 \Omega$: $\pm(1\% + 0.05 \Omega)$	The tested resistor shall be immersed into isopropyl alcohol at 20°C–25°C for 60 seconds. Then the resistor is left in the room for 48 hours.
Load Life and Moisture	JIS C-5201-1 clause 4.24	0.1%, 0.5%, 1%: $\pm(1\% + 0.05 \Omega)$ 5%: $\pm(2\% + 0.05 \Omega)$ Values $< 1 \Omega$: $\pm(2\% + 0.05 \Omega)$	40°C $\pm 2^\circ\text{C}$, 90–95% R.H. RCWV or Max. Working Voltage, whichever is less for 1000 hours, with 1.5 hours "ON" and 0.5 hour "OFF".
Load Life (Endurance)	JIS C-5201-1 clause 4.25	0.1%, 0.5%, 1%: $\pm(1\% + 0.05 \Omega)$ 5%: $\pm(3\% + 0.1 \Omega)$ Values $< 1 \Omega$: $\pm(3\% + 0.1 \Omega)$	70°C $\pm 2^\circ\text{C}$, RCWV or Max. Working Voltage, whichever is less for 1000 hours, with 1.5 hours "ON" and 0.5 hour "OFF".
Insulation Resistance	JIS C-5201-1 clause 4.6	$\geq 10 \text{ G} \Omega$	100V for 1 minute
Terminal Bending Strength	JIS C-5201-1 clause 4.33	± 1 : $\pm(1\% + 0.05 \Omega)$ ± 5 : $\pm(1\% + 0.05 \Omega)$	Bending once for 5 seconds D: 0402, 0603, 0805 = 5mm 1206, 1210 = 3mm 2010, 2512 = 2mm
Sulfur Test (FoS)	ATSM B809-95 ANSI/EIA-977	$\pm 1\% \pm 0.05 \Omega$	60 $\pm 2^\circ\text{C}$, no power rating for 1000 hours
		Standard and high power products Ultra high power products	105 $\pm 2^\circ\text{C}$, no power rating for 1000 hours

Operating temperature range is -55°C to +155°C

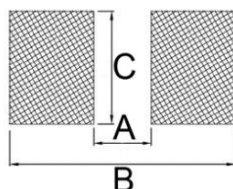
AEC-Q200 Test

Test	Test Method	Test Specification	Test Condition
Temperature Cycling	JESD22 Method JA-104	0.1%, 0.5%, 1%: $\pm(0.5\% + 0.05 \Omega)$ 5%: $\pm(1\% + 0.1 \Omega)$	1000 cycles (-55°C to +125°C) Measurement at 24 ± 4 hours after test conclusion.
Resistance to Solvent	MIL-STD-202 Method 215	1%: $\pm(0.5\% + 0.05 \Omega)$ 5%: $\pm(0.5\% + 0.05 \Omega)$	Add aqueous wash chemical - OKEM clean or equivalent
Biased Humidity	MIL-STD-202 Method 103	0.1%, 0.5%, 1%: $\pm(1\% + 0.05 \Omega)$ 5%: $\pm(3\% + 0.05 \Omega)$	1000 hours 85°C/85% R.H. 10% of operation power. Measurement at 24 ± 4 hours after test conclusion
High Temperature Exposure (Storage)	MIL-STD-202 Method 108	0.1%, 0.5%, 1%: $\pm(0.5\% + 0.05 \Omega)$ 5%: $\pm(2\% + 0.05 \Omega)$	1000 hours. T=155°C Unpowered. Measurement at 24 ± 4 hours after test conclusion
Operational Life	MIL-STD-202 Method 108	0.1%, 0.5%, 1%: $\pm(1\% + 0.05 \Omega)$ 5%: $\pm(3\% + 0.1 \Omega)$	Condition D steady state TA = 125°C at derated power. Measurement at 24 ± 4 hours after test
External Visual	MIL-STD-883 Method 2009	-	Electrical test not required. Inspect device construction, marking and workmanship.
Mechanical Shock	MIL-STD-202 Method 213	± 1 : $\pm(1\% + 0.05 \Omega)$ ± 5 : $\pm(2\% + 0.1 \Omega)$	Wafer Form: Tolerance for half sine shock pulse. Peak value is 100g. Normal duration is 6 minutes
Vibration	MIL-STD-202 Method 204	± 1 : $\pm(1\% + 0.05 \Omega)$ ± 5 : $\pm(2\% + 0.1 \Omega)$	5g for 20 minutes 12 cycles each of 3 orientations. Note: Test from 10-2000 hours
ESD	AEC-Q200-002 or ISO/DIS 10605	$\pm(3\% + 0.05 \Omega)$	Human body model 0402 / 0603: 1 KV 0805 and above: 2 KV
Solderability	J-STD-002	± 1 : $\pm(0.5\% + 0.05 \Omega)$ ± 5 : $\pm(1\% + 0.05 \Omega)$	(1) 4 hours 155°C, dry heat (2) 245°C $\pm 5^\circ\text{C}$, 3 seconds
Terminal Strength (SMD)	AEC Q200-006	No breakage	Pressurizing force for 60 seconds 0402 / 0603: 8 N 0805 and above: 17.7 N
Board Flex	AEC Q200-005	± 1 : $\pm(1\% + 0.05 \Omega)$ ± 5 : $\pm(1\% + 0.05 \Omega)$	Bending once for 60 seconds. 2010, 2512 sizes: 2 mm; other sizes: 3 mm

Power Derating Curve:

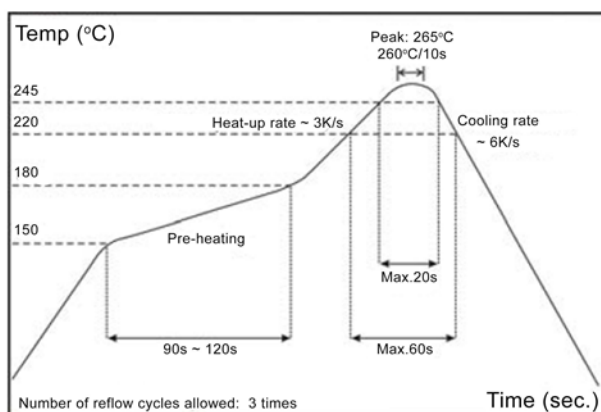


Recommended Pad Layout

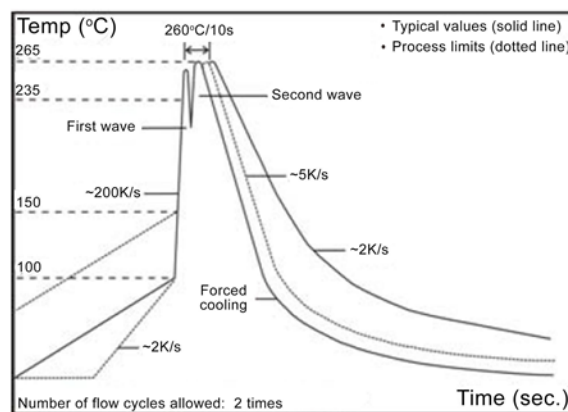


Type / Code	A	B	C	Unit
RMCA0402	0.024	0.063	0.028	inches
	0.60	1.60	0.70	mm
RMCA0603	0.031	0.094	0.039	inches
	0.80	2.40	1.00	mm
RMCA0805	0.051	0.114	0.055	inches
	1.30	2.90	1.40	mm
RMCA1206	0.087	0.165	0.067	inches
	2.20	4.20	1.70	mm
RMCA1210	0.079	0.173	0.106	inches
	2.00	4.40	2.70	mm
RMCA2010	0.150	0.260	0.106	inches
	3.80	6.60	2.70	mm
RMCA2512	0.193	0.319	0.134	inches
	4.90	8.10	3.40	mm

Recommended Soldering Profile



IR Reflow Soldering



Wave Soldering (Flow Soldering)

Rework temperature (hot air equipment): 350°C, 3 – 5 seconds

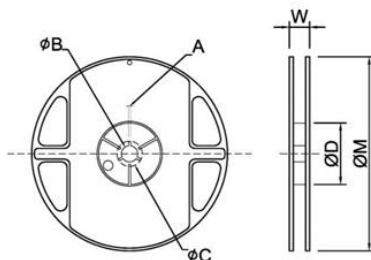
Recommended reflow methods:

- IR, vapor phase oven, hot air oven.

If reflow temperature exceed the recommended profile, devices may not meet the performance requirements.

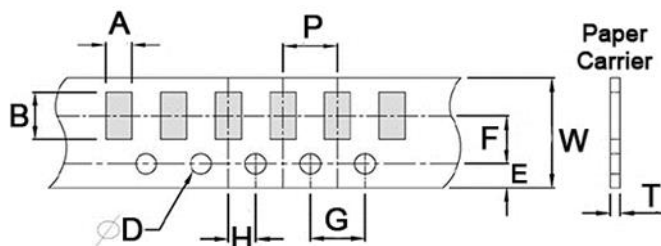
Packaging (EIA Standard RS-481)

Packaging Specifications



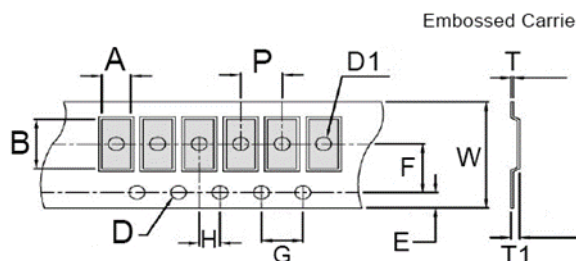
Size	Size	A	B	C	D	W	M	Unit
RMCA0402	7" 10K	0.079 ± 0.020 2.00 ± 0.50	0.531 ± 0.039 13.50 ± 1.00	0.827 ± 0.039 21.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	0.453 ± 0.079 11.50 ± 2.00	7.008 ± 0.079 178.00 ± 2.00	inches mm
RMCA0603 RMCA0805 RMCA1206 RMCA1210	7" 5K					0.453 ± 0.079 11.50 ± 2.00		inches mm
RMCA2010 RMCA2512	7" 4K					0.630 ± 0.079 16.00 ± 2.00		inches mm

Paper Tape Specifications



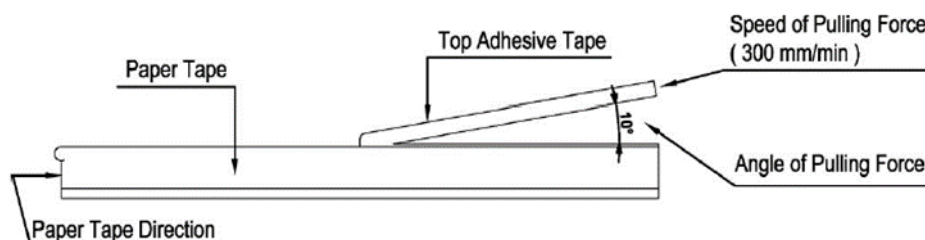
Size	A	B	W	E	F	Unit
RMCA0402	0.028 ± 0.004 0.70 ± 0.10	0.047 ± 0.004 1.20 ± 0.10	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCA0603	0.041 ± 0.008 1.05 ± 0.20	0.071 ± 0.008 1.80 ± 0.20				inches mm
RMCA0805	0.061 ± 0.008 1.55 ± 0.20	0.091 ± 0.008 2.30 ± 0.20				inches mm
RMCA1206	0.075 ± 0.008 1.90 ± 0.20	0.138 ± 0.008 3.50 ± 0.20				inches mm
RMCA1210	0.112 ± 0.008 2.85 ± 0.20	0.138 ± 0.008 3.50 ± 0.20				inches mm
Size	G	H	T	D	P	Unit
RMCA0402	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.018 ± 0.004 0.45 ± 0.10	0.059 ± 0.004/-0 1.50 ± 0.1/-0	0.079 ± 0.004 2.00 ± 0.10	inches mm
RMCA0603			0.024 ± 0.004 0.60 ± 0.10		0.157 ± 0.004 4.00 ± 0.10	inches mm
RMCA0805			0.030 ± 0.004 0.75 ± 0.10		0.157 ± 0.004 4.00 ± 0.10	inches mm
RMCA1206			0.030 ± 0.004 0.75 ± 0.10		0.157 ± 0.004 4.00 ± 0.10	inches mm
RMCA1210			0.030 ± 0.004 0.75 ± 0.10		0.157 ± 0.004 4.00 ± 0.10	inches mm

Embossed Tape Specifications



Size	A	B	W	E	F	G	Unit
RMCA2010	0.110 ± 0.008 2.80 ± 0.20	0.220 ± 0.008 5.60 ± 0.20	0.472 ± 0.004 12.00 ± 0.10	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.002 5.50 ± 0.05	0.157 ± 0.004 4.00 ± 0.10	inches
RMCA2512 (-HP and -UP)	0.134 ± 0.008 3.40 ± 0.20	0.264 ± 0.008 6.70 ± 0.20					mm
Size	H	T	D	D1	T1	P	Unit
RMCA2010	0.079 ± 0.002 2.00 ± 0.05	0.009 ± 0.004 0.23 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	0.059 ± 0.004 1.50 ± 0.10	0.033 ± 0.006 0.85 ± 0.15	0.157 ± 0.004 4.00 ± 0.10	inches
RMCA2512					0.033 ± 0.006 0.85 ± 0.15		mm
RMCA2512_-HP RMCA2512_-UP					0.037 ± 0.006 0.95 ± 0.15		mm

Peel-Off Strength Specifications



Top Adhesive Peel-off Strength: 10g~70g.

RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status

Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
RMCA	Automotive Grade Thick Film Chip Resistor	SMD	YES RoHS Compliant by means of exemption 7c-I	100% Matte Sn over Ni	Always	Always

“Conflict Metals” Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the “conflict region” of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to “REACH”

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, “The Registration, Evaluation, Authorization and Restriction of Chemicals”, otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order

R	M	C	A	0	4	0	2	F	T	1	R	0	0	-	H	P
Product Series		Size and Wattage				Tolerance		Packaging				Resistance Value		Special		
Code	Description	Code	Std W	-HP W	-UP W	Code	Tol	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder.		Code	Description	
RMCA	Automotive Grade Thick Film Chip Resistors	0402	0.063	0.1	0.2	B	0.1%	T	7" Reel Paper Tape	0402	10000			blank	Standard	
		0603	0.1	0.125	0.33	D	0.5%			0603, 0805	5000	3.9 ohm = 3R90 10 Kohm = 10K0 1.1 Mohm = 1M10 Zero ohm jumper = 0R00		-HP	High Power	
		0805	0.125	0.25	0.5	F	1%		7" Reel Plastic Tape	1206, 1210	4000			-UP	Ultra-high Power	
		1206	0.25	0.5	0.75	J	5%			2010, 2512						
		1210	0.5	0.66	1	K	10%									
		2010	0.75	1	1.5	Z	Jumper									
		2512	1	2	3											