General Purpose Thick Film Standard Power and High-Power Chip Resistor

Stackpole Electronics, Inc.

Resistive Product Solutions

Features:

- RMCF standard power ratings
- RMCP high power ratings
- Nickel barrier terminations standard
- Power derating from 100% at 70°C to zero at +155°C
- AEC-Q200 compliant (except RMCP0201)
- RoHS compliant and halogen free



	Electrical Specifications - RMCF									
Type/Code	Power Rating (W)	Max. Working	Max. Overload	Max. Jumper Current	TCR (ppm/°C)	Ohmic Range (Ω)				
	@ 70°C	Voltage (V) ⁽¹⁾	Voltage (V)	(A)		1%	5%			
RMCF01005	0.03	15	30	0.5	± 300	10 -				
	0.00	.0		0.0	± 200	100				
RMCF0201	0.05	25	50	0.5	± 400	1 - 9				
14001 0201	0.00	20		0.0	± 200	10 -				
					± 200	1 - 9.				
RMCF0402	0.063	50	100	1	± 100	10 -	1M			
					± 200	1.02M - 10M	1.1M - 20M			
					± 500	0.1 - 0	0.499			
RMCF0603					± 400	0.5 -	0.976			
	0.1	75	150	1	± 200	1 - 9.76	1 - 20M			
					± 100	10 - 1M	-			
					± 200	1.02M - 10M	-			
					± 200	0.1 - 9.76	0.1 - 20M			
RMCF0805	0.125	150	300	2	± 100	10 - 1M	-			
					± 200	1.02M - 10M	-			
					± 200	0.1 - 9.76	0.1 - 20M			
RMCF1206	0.25	200	400	2	± 100	10 - 1M	-			
					± 200	1.02M - 10M	-			
					± 200	0.1 - (0.976			
RMCF1210	0.5	200	400	3	± 400	1 - 9	9.76			
					± 100	10 - 10M				
					± 200	0.1 - (0.976			
DMOFOOAO	0.75	000	400		± 400	1 - 9	9.76			
RMCF2010	0.75	200	400	3	± 200	-	10 - 10M			
					± 100	10 - 10M	-			
					± 200	0.1 - (0.976			
DMOE0510	_	000	400		± 400	1 - 9				
RMCF2512	1	200	400	3	± 200	-	10 - 10M			
					± 100	10 - 10M	-			

Notes: (1) Lesser of √P*R or maximum working voltage

(2) Contact Stackpole for extended ohmic values

(3) Contact Stackpole for lower ohmic values

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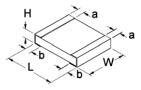
	Electrical Specifications - RMCP									
Type/Code	Power Rating (W)	Max. Working	Max. Overload	Max. Jumper Current	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance $^{(2)}$				
	@ 70°C	Voltage (V) ⁽¹⁾	Voltage (V)	(A)		1%, 5%				
RMCP0201	0.063	25	50	1	-200 / +400	1 - 9.76				
KWCF 0201	0.003	25	30	ı	± 200	10 - 10M				
RMCP0402	0.125	50	100	1.5	± 200	1 - 9.76				
KWCF 0402	0.123	30	100	1.5	± 100	10 - 10M				
RMCP0603	0.25	75	150	2	± 200	1 - 9.76				
RIVICEU003	0.25	75	150		± 100	10 - 10M				
RMCP0805	0.33	150	300	2.5	± 200	1 - 9.76				
RIVICEU000	0.33	150	300	2.5	± 100	10 - 10M				
RMCP1206	0.5	200	400	3.5	± 400	1 - 9.76				
RIVICE 1200	0.5	200	400	3.5	± 100	10 - 10M				
RMCP1210	0.66	200	400	5	± 400	1 - 9.76				
RIVICP1210	0.00	200	400	5	± 100	10 - 10M				
RMCP2010	1	200	400	6	± 200	1 - 9.76				
KIVICP2010	ļ 	200	400	0	± 100	10 - 10M				
RMCP2512	2	250	500	7	± 200	1 - 9.76				
KIVICP2512	2	230	300	'	± 100	10 - 10M				

Notes: (1) Lesser of √P*R or maximum working voltage (2) Contact Stackpole for extended ohmic values

Electrical Specifications - Jumper								
Type/Code	Jumper Rated Current (A)	Max Overload Current (A)*	Jumper Resistance Value (Ω)					
RMCF01005	0.5	1						
RMCF0201	0.5	1						
RMCF0402	1	3						
RMCF0603	1	5						
RMCF0805	2	5	0.05 max.					
RMCF1206	2	10						
RMCF1210	3	12						
RMCF2010	3	12						
RMCF2512	3	15						

^{* &}lt; 1 second and 1 time

Mechanical Specifications



Turno (Condo	Average Unit	L	W	Н	а	b	Limit
Type/Code Weight (mg)		Body Length	Body Width	Body Height	Top Termination	Bottom Termination	Unit
RMCF01005	0.07	0.016 ± 0.0008	0.008 ± 0.0008	0.005 ± 0.0008	0.004 ± 0.0012	0.004 ± 0.0012	inches
RIVICEUTUUS	0.07	0.40 ± 0.02	0.20 ± 0.02	0.13 ± 0.02	0.10 ± 0.03	0.10 ± 0.03	mm
RMCF0201	0.16	0.024 ± 0.0012	0.012 ± 0.0012	0.009 ± 0.0012	0.006 ± 0.002	0.006 ± 0.002	inches
RMCP0201	0.16	0.60 ± 0.03	0.30 ± 0.03	0.23 ± 0.03	0.15 ± 0.05	0.15 ± 0.05	mm
RMCF0402	0.57	0.039 ± 0.004	0.020 ± 0.002	0.012 ± 0.004	0.008 ± 0.004	0.010 ± 0.006	inches
RMCP0402	0.62	1.00 ± 0.10	0.50 ± 0.05	0.30 ± 0.10	0.20 ± 0.10	0.25 ± 0.15	mm
RMCF0603	1.88	0.061 ± 0.006	0.031 ± 0.006	0.018 ± 0.004	0.012 ± 0.008	0.012 ± 0.008	inches
RMCP0603	2.04	1.55 ± 0.15	0.80 ± 0.15	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20	mm
RMCF0805	5.00	0.079 ± 0.008	0.049 ± 0.004	0.020 ± 0.006	0.014 ± 0.010	0.014 ± 0.010	inches
RMCP0805	4.37	2.00 ± 0.20	1.25 ± 0.10	0.50 ± 0.15	0.35 ± 0.25	0.35 ± 0.25	mm

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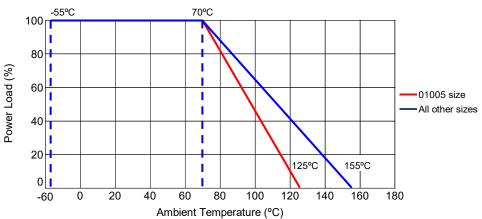
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Mechanical Specifications (cont.)									
Type/Code	Average Unit	L	W	Н	а	b	Unit		
Type/Code	Weight (mg)	Body Length	Body Width	Body Height	Top Termination	Bottom Termination	Offic		
RMCF1206	8.86	0.126 ± 0.010	0.063 ± 0.006	0.022 ± 0.006	0.020 ± 0.012	0.020 ± 0.012	inches		
RMCP1206	8.95	3.20 ± 0.25	1.60 ± 0.15	0.55 ± 0.15	0.50 ± 0.30	0.50 ± 0.30	mm		
RMCF1210	15.55	0.126 ± 0.010	0.098 ± 0.010	0.022 ± 0.006	0.020 ± 0.012	0.020 ± 0.012	inches		
RMCP1210	15.96	3.20 ± 0.25	2.50 ± 0.25	0.55 ± 0.15	0.50 ± 0.30	0.50 ± 0.30	mm		
RMCF2010	23.56	0.197 ± 0.008	0.098 ± 0.008	0.022 ± 0.006	0.024 ± 0.012	0.024 ± 0.014	inches		
RMCP2010	24.24	5.00 ± 0.20	2.50 ± 0.20	0.55 ± 0.15	0.60 ± 0.30	0.60 ± 0.35	mm		
RMCF2512	40.02	0.248 ± 0.008	0.126 ± 0.010	0.022 ± 0.008	0.024 ± 0.012	0.024 ± 0.014	inches		
RMCP2512	39.45	6.30 ± 0.20	3.20 ± 0.25	0.55 ± 0.20	0.60 ± 0.30	0.60 ± 0.35	mm		

	Performance C	Characteristics
Test	Test Specifications	Test Conditions (JIS-C 5202)
	± (2% + 0.1Ω)	2.5 X rated voltage for 5 seconds
Short Time Overload	Jumper: Max 0.05Ω after test	0201 = 1A 0402 / 0603 / 0805 = 2.5A 1206 / 1210 / 2010 / 2512 = 5A
Dielectric Withstanding Voltage	No flashover or breakdown	100 VAC, 1 minute
Resistance to Soldering Heat	± 1%	260°C ± 5°C, for 10 seconds ± 0.5 seconds (Solder Bath)
Solderability	95% coverage, minimum	235°C ± 5°C, for 2 seconds ± 0.5 seconds (Colophonium flux)
Temperature Cycle	\pm (1% + 0.05Ω) Jumper (< 0.05Ω)	-65°C: 30 minutes 25°C: 2 to 3 minutes 155°C: 30 minutes 25°C: 2 to 3 minutes (5 Cycles)
Load Life (Endurance)	1% and below: ± (1% + 0.05Ω) 2% and 5%: ± (3% + 0.1Ω) Value < 1Ω: ± (3% + 0.1Ω) Jumper: Max 0.1Ω after test.	70°C ± 2°C, RCWV or max. working voltage whichever is less for 1000 hours with 1.5 hours "ON" and 0.5 hour "OFF"
Voltage Coefficient	± 100 (ppm/V)	1/10 rated voltage for 3 seconds max. then rated voltage for 3 seconds max.
Robustness of Termination	± (1% + 0.05Ω)	Bend of 3 mm for 5 ± 1 seconds
Resistance to Solvent	1%: \pm (0.5% + 0.05Ω) 5%: \pm (0.5% + 0.05Ω) Jumper: Max. 0.05Ω after test	The tested resistor should be immersed into isopropyl alcohol of 20°C ~ 25°C for 60 seconds. Then the resitor is left in the room for 48 hours.
Damp Heat with Load	1%: \pm (1% + 0.05Ω) 5%: \pm (2% + 0.05Ω) Values < 1Ω: \pm (3% + 0.1Ω) Jumper: Max. 0.1Ω after test	40°C ± 2°C, 90%~95% R.H. RCWV or max. working voltage whichever is less for 1000 hours with 1.5 hours "ON" and 0.5 hours "OFF"

Operating temperature range is -55°C to +155°C for all sizes except for 01005 size Operating temperature range for 01005 is -55°C to +125°C

Power Derating Curve:



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Repetitive Pulse Information

(This information is for reference only and is not guaranteed performance.)

If repetitive pulses are applied to resistors, pulse wave form must be less than "Pulse limiting voltage", "Pulse limiting current" or "Pulse limiting wattage" calculated by the formula below.

$$Vp = K\sqrt{P \times R \times T/t}$$

$$Ip = K\sqrt{P/R \times T/t}$$

$$Pp = K^2 x P x T/t$$

Where: Vp: Pulse limiting voltage (V)

Ip: Pulse limiting current (A)

Pp: Pulse limiting wattage (W)

P: Power rating (W)

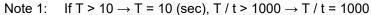
R: Nominal resistance (ohm)

T: Repetitive period (sec)

t: Pulse duration (sec)

K: Coefficient by resistors type (refer to below matrix)

[Vr: Rated Voltage (V), Ir: Rated Current (A)]



Note 2: If T > 10 and T / t > 1000, "Pulse Limiting power (Single pulse) is applied

Note 3: If Vp < Vr (lp < lr or Pp < P), Vr (lr, P) is Vp (lp, Pp)

Note 4: Pulse limiting voltage (current, wattage) is applied at less than rated ambient temperature. If ambient temperature is more than the rated temperature (70°C), please decrease power rating according to "Power Derating Curve"

Note 5: Please assure sufficient margin for use period and conditions for "Pulse limiting voltage"

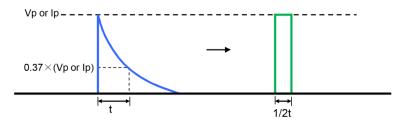
Note 6: If the pulse waveform is not square wave, please judge after transform the waveform into square wave according to the "Waveform Transformation to Square Wave".



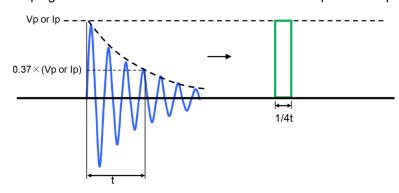
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Waveform Transformation to Square Wave

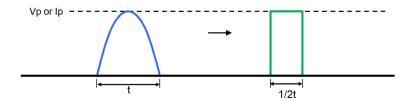
1. Discharge curve wave with time constant "t" → Square wave



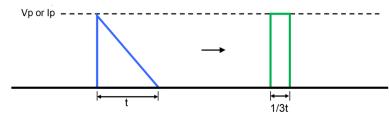
2. Damping oscillation wave with time constant of envelope "t" → Square wave



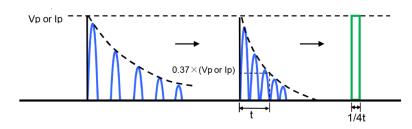
3. Half-wave rectification wave → Square wave



4. Triangular wave → Square wave



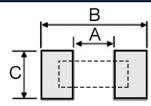
5. Special wave → Square wave



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Recommended Pad Layout



Type/Code	A	В	С	Unit
RMCF01005	0.008	0.020	0.008	inches
RIVICEUTUUS	0.20	0.50	0.20	mm
RMCF0201	0.012	0.039	0.016	inches
RMCP0201	0.30	1.00	0.40	mm
RMCF0402	0.020	0.059	0.024	inches
RMCP0402	0.50	1.50	0.60	mm
RMCF0603	0.031	0.083	0.035	inches
RMCP0603	0.80	2.10	0.90	mm
RMCF0805	0.047	0.118	0.051	inches
RMCP0805	1.20	3.00	1.30	mm
RMCF1206	0.087	0.165	0.063	inches
RMCP1206	2.20	4.20	1.60	mm
RMCF1210	0.087	0.165	0.110	inches
RMCP1210	2.20	4.20	2.80	mm
RMCF2010	0.138	0.240	0.110	inches
RMCP2010	3.50	6.10	2.80	mm
RMCF2512	0.193	0.315	0.138	inches
RMCP2512	4.90	8.00	3.50	mm

Recommended Solder Profile

This information is intended as a reference for solder profiles for Stackpole resistive components. These profiles should be compatible with most soldering processes. These are only recommendations. Actual numbers will depend on board density, geometry, packages used, etc., especially those cells labeled with "*".

100% Matte Tin / RoHS Compliant Terminations

Soldering iron recommended temperatures: 330°C to 350°C with minimum duration. Maximum number of reflow cycles: 3.

	Wave Soldering							
Description	Maximum	Recommended	Minimum					
Preheat Time	80 seconds	70 seconds	60 seconds					
Temperature Diff.	140°C	120°C	100°C					
Solder Temp.	260°C	250°C	240°C					
Dwell Time at Max.	10 seconds	5 seconds	*					
Ramp DN (°C/sec)	N/A	N/A	N/A					

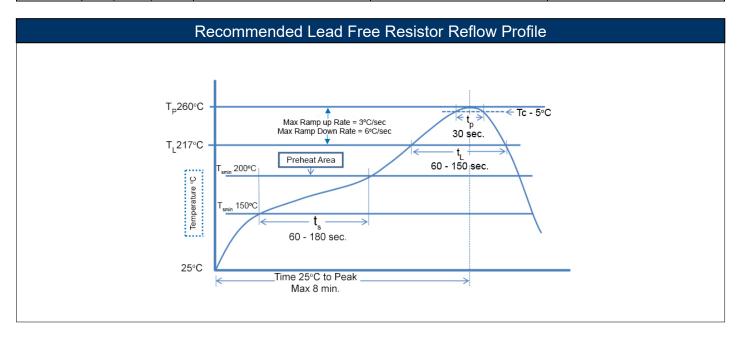
Temperature Diff. = Defference between final preheat stage and soldering stage.

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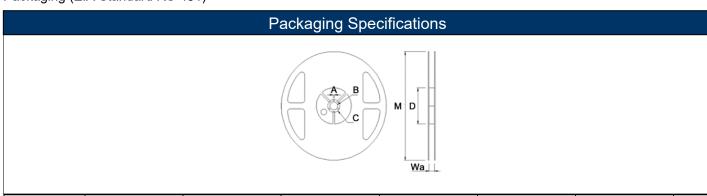
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	Convection IR Reflow							
Description	Maximum	Recommended	Minimum					
Ramp Up (°C/sec)	3°C/sec	2°C/sec	*					
Dwell Time > 217°C	150 seconds	90 seconds	60 seconds					
Solder Temp.	260°C	245°C	*					
Dwell Time at Max.	30 seconds	15 seconds	10 seconds					
Ramp DN (°C/sec)	6°C/sec	3°C/sec	*					



Packaging (EIA Standard RS-481)

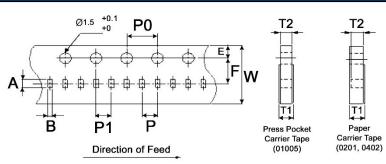


Reel Type	Wa	М	А	В	С	D	Unit
7" reel for	0.354 ± 0.020	7.008 ± 0.079				2.362 ± 0.039	inches
8 mm tape	9.00 ± 0.50	178.00 ± 2.00	0.079 ± 0.020	0.531 ± 0.020	0.827 ± 0.020	60.00 ± 1.00	mm
10" reel for	0.394 ± 0.020	10.000 ± 0.079	2.00 ± 0.50	13.50 ± 0.50	21.00 ± 0.50	3.937 ± 0.039	inches
8 mm tape	10.00 ± 0.50	254.00 ± 2.00				100.00 ± 1.00	mm

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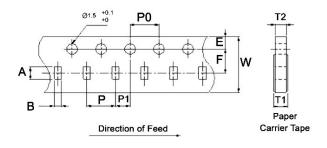
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Taping Specifications - 01005, 0201, 0402



Type/Code	7" Reel Quantity	, ,	ical Full Veight (g)	Tape Width	1 A		В	W		E	F	Unit
RMCF01005		127 3	± 12.0		0.018 ±	0.001	0.010 ± 0.001					inches
TAMO1 0 1000		127.0	12.0		0.45 ±	0.02	0.25 ± 0.02					mm
RMCF0201	10000	07.2	± 9.0	0.315	0.028 ±	0.006	0.016 ± 0.006	0.315 ± 0.008	0.069	± 0.004	0.138 ± 0.002	inches
RMCP0201	10000	91.2	± 9.0	8.00	0.70 ±	0.15	0.40 ± 0.15	8.00 ± 0.20	1.75	± 0.10	3.50 ± 0.05	mm
RMCF0402		04.5	± 9.0	Ī	0.047 ±	0.006	0.028 ± 0.006					inches
RMCP0402		94.5	± 9.0		1.20 ±	0.15	0.70 ± 0.15			_		mm
Type/Code	T1		T2		Р		P0	P1	Unit			
DMOFOAGOE	0.012 ±	0.001	0.007 ±	0.001					inches			
RMCF01005	0.31 ±	0.03	0.17 ±	0.03					mm			
RMCF0201	0.015 ±	0.006	0.011 ±	0.001	$0.079 \pm$	0.004	0.157 ± 0.004	0.079 ± 0.002	inches			
RMCP0201	0.38 ±	0.15	0.28 ±	0.02	$2.00 \pm$	0.10	4.00 ± 0.10	2.00 ± 0.05	mm			
RMCF0402	0.016 ±	0.008	0.016 ±	0.002					inches			
RMCP0402	0.40 ±	0.20	0.40 ±	0.05					mm			

Taping Specifications - 0603, 0805, 1206, 1210

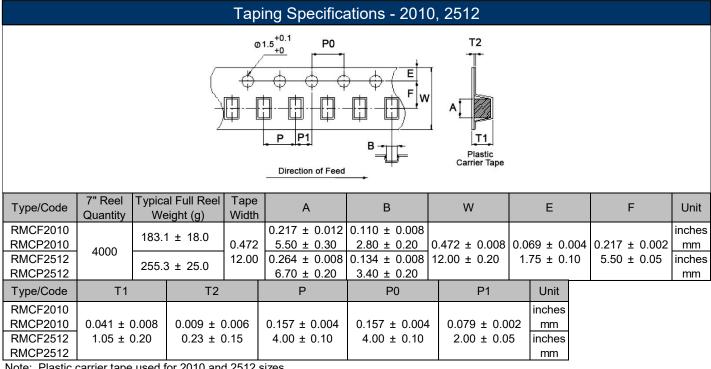


Type/Code	7" Reel Quantity (1)	Typical Full Reel Weight (g)	Tape Width	А	В	W	E	Unit
RMCF0603	5000	118.3 ± 11.0		0.071 ± 0.008	0.041 ± 0.008			inches
RMCP0603	3000	110.0 ± 11.0		1.80 ± 0.20	1.05 ± 0.20			mm
RMCF0805	5000	139.2 ± 13.0		0.093 ± 0.010	0.063 ± 0.010			inches
RMCP0805	3000	139.2 ± 13.0	0.315	2.35 ± 0.25	1.60 ± 0.25	0.315 ± 0.008	0.069 ± 0.004	mm
RMCF1206	5000	151.4 ± 15.0	8.00	0.140 ± 0.010	0.077 ± 0.010	8.00 ± 0.20	1.75 ± 0.10	inches
RMCP1206	3000	131.4 ± 13.0		3.55 ± 0.25	1.95 ± 0.25			mm
RMCF1210	4000	175.7 ± 17.0		0.138 ± 0.008	0.110 ± 0.010			inches
RMCP1210	4000	113.1 £ 11.0		3.50 ± 0.20	2.80 ± 0.25			mm

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Taping Specifications - 0603, 0805, 1206, 1210 (cont.)										
Type/Code	F	T1	T2	Р	P0	P1	Unit			
RMCF0603		0.024 ± 0.008	0.024 ± 0.004				inches			
RMCP0603		0.60 ± 0.20	0.60 ± 0.10				mm			
RMCF0805		0.030 ± 0.008	0.030 ± 0.004				inches			
RMCP0805	0.138 ± 0.002	0.75 ± 0.20	0.75 ± 0.10	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	mm			
RMCF1206	3.50 ± 0.05	0.030 ± 0.008	0.030 ± 0.004	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	inches			
RMCP1206		0.75 ± 0.20	0.75 ± 0.10				mm			
RMCF1210		0.030 ± 0.008	0.030 ± 0.004				inches			
RMCP1210		0.75 ± 0.20	0.75 ± 0.10				mm			

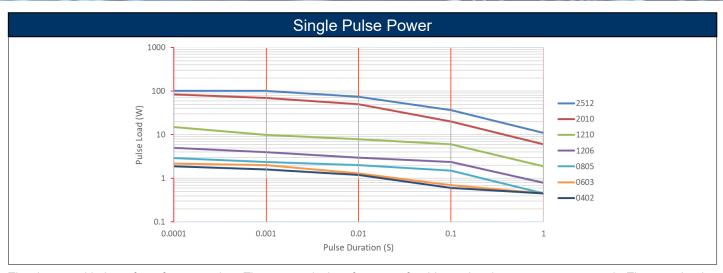


Note: Plastic carrier tape used for 2010 and 2512 sizes.

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The data provided are for reference only. They are typical performance for this product but are not guaranteed. The actual pulse handling of each individual resistor may vary depending on a variety of factors including resistance tolerance and resistance value. Stackpole Electronics, Inc. assumes no liability for the use of this information. Customers should validate the performance of these products in their applications. Contact Stackpole marketing to discuss specific pulse application requirements.

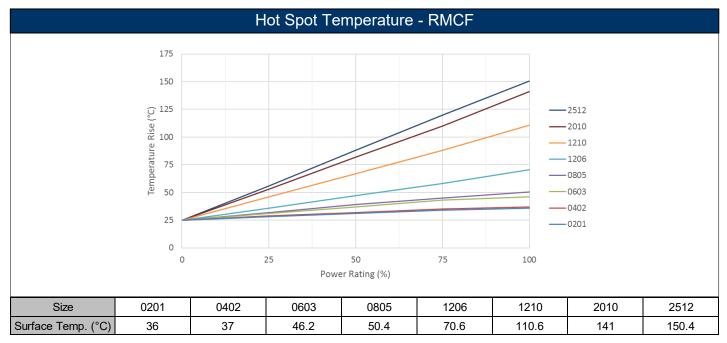
Temperature Measurement of Resistor Surface

Description: The resistor surface generated temperature variation after applied rated voltage. Products and power:

Size	0201	0402	0603	0805	1206	1210	2010	2512
R-V	15K	40.2K	57.6K	180K	182K	100K	100K	75K
Rated Power (W)	1/20	1/16	1/10	1/8	1/4	1/2	3.4	1
Max Rated Voltage (V)	25	50	75	150	200	200	200	200

Test method: Measure component surface temperature directly after the temperature stabilizes.

Test result: As per table below:



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The thermal resistance of the RMCP will be similar to the RMCF. For example, the RMCF2512 and the RMCP2512 will have similar surface temperatures at 1W; the RMCP is designed to withstand higher temperatures associated with high power levels.

Part Marking Specifications



1% Marking

The nominal resistance is marked on the surface of the overcoating with the use of 4 digit markings.

0201 and 0402 are not marked.



5% Marking

The nominal resistance is marked on the surface of the overcoating with the use of 3 digit markings.

0201 and 0402 are not marked.

For shared E24/E96 values, 1% tolerance product may be marked wit three digit marking instead of the standard four-digit marking for all other E96 values. All E24 values available in 1% tolerance are also marked with three-digit marking.

Marking Instructions for 0603 1% Chip Resistors (per EIA-J)

A two-digit number is assigned to each standard R-Value (E96) as shown in the chart below. This is followed by one alpha character which is used as a multiplier. Each letter represents a specific multiplier as follows:

Z = 0.01	A = 10	D = 10000
Y = 0.1	B = 100	E = 100000
X = 1	C = 1000	F = 1000000

EXAMPLE:

Chip Marking	Explanation	Value		
01B	01 means 10.0 and B = 100	10.0 x 100 = 1K ohm		
25C	25 means 17.8 and C = 1,000	17.8 x 1,000 = 17.8K ohm		
93D	93 means 90.9 and D = 10,000	90.9 x 10,000 = 909K ohm		

E96											
#	R-Value	#	R-Value	#	R-Value	#	R-Value	#	R-Value	#	R-Value
01	10.0	17	14.7	33	21.5	49	31.6	65	46.4	81	68.1
02	10.2	18	15.0	34	22.1	50	32.4	66	47.5	82	69.8
03	10.5	19	15.4	35	22.6	51	33.2	67	48.7	83	71.5
04	10.7	20	15.8	36	23.2	52	34.0	68	49.9	84	73.2
05	11.0	21	16.2	37	23.7	53	34.8	69	51.1	85	75.0
06	11.3	22	16.5	38	24.3	54	35.7	70	52.3	86	76.8
07	11.5	23	16.9	39	24.9	55	36.5	71	53.6	87	78.7
08	11.8	24	17.4	40	25.5	56	37.4	72	54.9	88	80.6
09	12.1	25	17.8	41	26.1	57	38.3	73	56.2	89	82.5
10	12.4	26	18.2	42	26.7	58	39.2	74	57.6	90	84.5
11	12.7	27	18.7	43	27.4	59	40.2	75	59.0	91	86.6
12	13.0	28	19.1	44	28.0	60	41.2	76	60.4	92	88.7
13	13.3	29	19.6	45	28.7	61	42.2	77	61.9	93	90.9
14	13.7	30	20.0	46	29.4	62	43.2	78	63.4	94	93.1
15	14.0	31	20.5	47	30.1	63	44.2	79	64.9	95	95.3
16	14.3	32	21.0	48	30.9	64	45.3	80	66.5	96	97.6

General Purpose Thick Film Standard Power and High-Power Chip Resistor

Stackpole Electronics, Inc.

Resistive Product Solutions

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)					
RMCF	General Purpose Thick Film Surface Mount Chip Resistor	SMD	YES ⁽¹⁾	100% Matte Sn over Ni	Jan-04 (Japan) Jan-05 (Taiwan, China)	04/01 05/01					
RMCP	General Purpose High Power Thick Film Chip Resistor	SMD	YES ⁽¹⁾	100% Matte Sn over Ni	Always	Always					

Note (1): RoHS Compliant by means of exemption 7c-I.

"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.

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www.seielect.com marketing@seielect.com

General Purpose Thick Film Standard Power and High-Power Chip Resistor

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