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)	Maximum Working	Maximum Overload	Max. Jumper Current	Resistance Temperature	Ohmic Range (Ω)	and Tolerance (2)			
	@ 70°C	Voltage (1)	Voltage	(Amp)	Coefficient	1%	5%			
RMCF01005	0.03	15	30	0.5	± 300 ppm/°C	10 -	97.6			
KIVICF01005	0.03	15	30	0.5	± 200 ppm/°C	100 -	· 1 M			
RMCF0201	0.05	25	50	0.5	± 400 ppm/°C	1 - 9	9.76			
RIVICEUZUT	0.05	25	50	0.5	± 200 ppm/°C	10 -	10 M			
					± 200 ppm/°C	1 - 9	.76 ⁽⁴⁾			
RMCF0402	0.063	50	100	1	± 100 ppm/°C	10 -	1 M			
					± 200 ppm/°C	1.02 M - 10 M	1.1 M - 20 M			
					± 500 ppm/°C	0.1 - (0.499			
		0.1 75			± 400 ppm/°C	0.5 -	0.976			
RMCF0603	0.1		150	1	± 200 ppm/°C	1 - 9.76	1 - 20 M			
					± 100 ppm/°C	10 - 1 M	-			
					± 200 ppm/°C	1.02 M - 10 M	-			
				300 2	± 200 ppm/°C	0.1 - 9.76	0.1 - 20 M			
RMCF0805	0.125	150	300		± 100 ppm/°C	10 - 1 M	-			
					± 200 ppm/°C	1.02 M - 10 M	-			
					± 200 ppm/°C	0.1 - 9.76	0.1 - 20 M			
RMCF1206	0.25	200	400	2	± 100 ppm/°C	10 - 1 M	-			
					± 200 ppm/°C	1.02 M - 10 M	-			
					± 200 ppm/°C	0.1 - (0.976			
DMCE4040	0.33 (3)	200	400	3	± 400 ppm/°C	1 - 9	9.76			
RMCF1210	0.33 (*)	200	400	3	± 200 ppm/°C	-	10 - 20 M			
					± 100 ppm/°C	10 - 10 M	-			
					± 200 ppm/°C	0.1 - (0.976			
DMOFOOAO	0.75	000	400	0	± 400 ppm/°C	1 - 9	9.76			
RMCF2010	0.75	200	400	3	± 200 ppm/°C	-	10 - 10 M			
					± 100 ppm/°C	10 - 10 M	-			
					± 200 ppm/°C	0.1 - (0.976			
DMOESEAS		000	400		± 400 ppm/°C	1 - 9	9.76			
RMCF2512	1	200	400	3	± 200 ppm/°C	-	10 - 10 M			
					± 100 ppm/°C	10 - 10 M	-			

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

- (2) Contact factory for extended ohmic values
- (3) Power rating is 0.5 W for ohmic values 1 K Ω and below
- (4) Contact factory for lower ohmic values

1

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

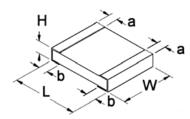
Stackpole Electronics, Inc. Resistive Product Solutions

	Electrical Specifications - RMCP											
Type / Code	Power Rating (W)	Maximum Working	Maximum Overload	Max. Jumper Current	Resistance Temperature	Ohmic Range (Ω) and Tolerance $^{(2)}$						
	@ 70°C	Voltage (1)	Voltage	(Amp)	Coefficient	1%, 5%						
RMCP0201	0.063	25	50	4	-200/+400 ppm/°C	1 - 9.76						
RIVICP0201	0.063	25	50	ı	± 200 ppm/°C	10 - 1 M						
RMCP0402	0.125	50	100	1.5	± 200 ppm/°C	1 - 9.76						
KIVICF0402	0.125	30	100	1.5	± 100 ppm/°C	10 - 1 M						
RMCP0603	0.25	75	150	2	± 200 ppm/°C	1 - 9.76						
KIVICE U003	0.25	73	130		± 100 ppm/°C	10 - 1 M						
RMCP0805	0.33	150	300	2.5	± 200 ppm/°C	1 - 9.76						
RIVICEU003	0.33	150	300	2.5	± 100 ppm/°C	10 - 1 M						
RMCP1206	0.33	200	400	3.5	± 200 ppm/°C	1 - 9.76						
RIVICE 1206	0.33	200	400	3.5	± 100 ppm/°C	10 - 1 M						
RMCP1210	0.5	200	400	5	± 200 ppm/°C	1 - 9.76						
RIVICE 1210	0.5	200	400	5	± 100 ppm/°C	10 - 1 M						
RMCP2010	1	200	400	6	± 200 ppm/°C	1 - 9.76						
INIVICI-2010	1	200	400	U	± 100 ppm/°C	10 - 1 M						
RMCP2512	2	250	500	7	± 200 ppm/°C	1 - 9.76						
KIVICP2512	2	230	500	/	± 100 ppm/°C	10 - 1 M						

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

(2) Contact factory for extended ohmic values

Mechanical Specifications



T / O I -	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 ± 0.002	0.008 ± 0.004	0.010 ± 0.006	inches
RMCP0402	0.62	1.00 ± 0.10	0.50 ± 0.05	0.30 ± 0.05	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
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 ± 0.006	0.024 ± 0.012	0.024 ± 0.014	inches
RMCP2512	39.45	6.30 ± 0.20	3.20 ± 0.25	0.55 ± 0.15	0.60 ± 0.30	0.60 ± 0.35	mm

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

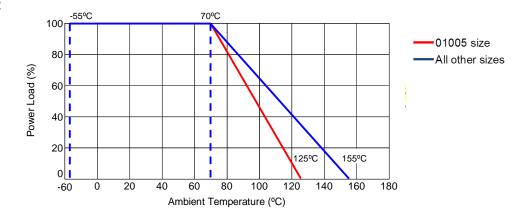
Stackpole Electronics, Inc.

Resistive Product Solutions

	Performance Characteristics								
Test	Test Specifications	Test Conditions (JIS-C 5202)							
Short Time Overload	± (2% + 0.1 Ω)	2.5 X rated voltage for 5 seconds							
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% + 0.05 Ω) Jumper (< 0.05 Ω)	-65 °C: 30 minutes 25 °C: 2 to 3 minutes 155 °C: 30 minutes 25 °C: 2 to 3 minutes (5 Cycles)							
Endurance (Damp load)	± (3% + 0.1 Ω) Jumper (<0.05 Ω)	40 °C ± 2 °C, 90% RH, Rated Load 90 minutes On, 30 minutes Off for 1000 hours -0 hour / +48 hours							
Load Life (Endurance)	Values < 1 Ω: \pm (3% + 0.1 Ω)	70 ± 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% + 0.05 Ω)	Bend of 3 mm for 5 ± 1 seconds							

Operating Temperature Range: -55 °C to +125 °C (01005 size) -55 °C to +155 °C (all others)

Power Derating Curve:



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.

 $Vp = K \sqrt{P \times R \times T/t}$ $Ip = K \sqrt{P/R \times T/t}$ $Pp = K^2 \times P \times T/t$

Where: Vp: Pulse limiting voltage (V)

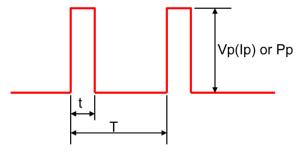
Ip: Pulse limiting current (A)Pp: Pulse limiting wattage (W)

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)]

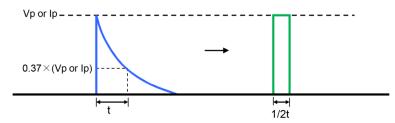


Resistive Product Solutions

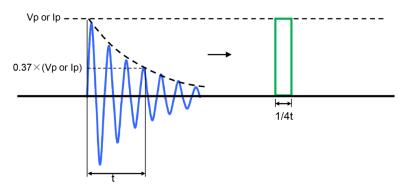
RMCF Coefficient (K) Matrix							
Resistor Type	К						
R < 10 Ω	0.50						
10 Ω ≤ R < 100 Ω	0.45						
100 Ω ≤ R < 1 K Ω	0.35						
1 K Ω ≤ R < 10 K Ω	0.25						
10 K Ω ≤ R	0.20						

Waveform Transformation to Square Wave

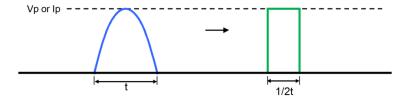
1. Discharge curve wave with time constant "t" → Square wave



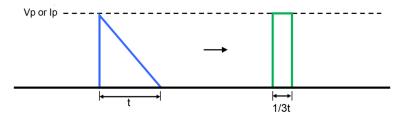
2. Damping oscillation wave with time constant of envelope "t" → Square wave



3. Half-wave rectification wave → Square wave



4. Triangular wave → Square wave

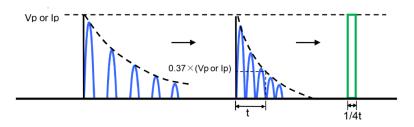


General Purpose Thick Film Standard Power and High-Power Chip Resistor

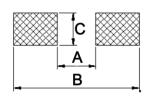
Stackpole Electronics, Inc.

Resistive Product Solutions

5. Special wave → Square wave



Recommended Pad Layout



Size	А	В	С	Unit
01005	0.008	0.020	0.008	inches
01005	0.20	0.50	0.20	mm
0201	0.012	0.039	0.016	inches
0201	0.30	1.00	0.40	mm
0402	0.020	0.059	0.024	inches
	0.50	1.50	0.60	mm
0603	0.031	0.083	0.035	inches
	0.80	2.10	0.90	mm
0005	0.047	0.118	0.051	inches
0805	1.20	3.00	1.30	mm
1206	0.087	0.165	0.063	inches
1206	2.20	4.20	1.60	mm
1210	0.087	0.165	0.110	inches
1210	2.20	4.20	2.80	mm
2010	0.138	0.240	0.110	inches
2010	3.50	6.10	2.80	mm
2512	0.193	0.315	0.138	inches
2512	4.90	8.00	3.50	mm

Packaging (EIA Standard RS-481)



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

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

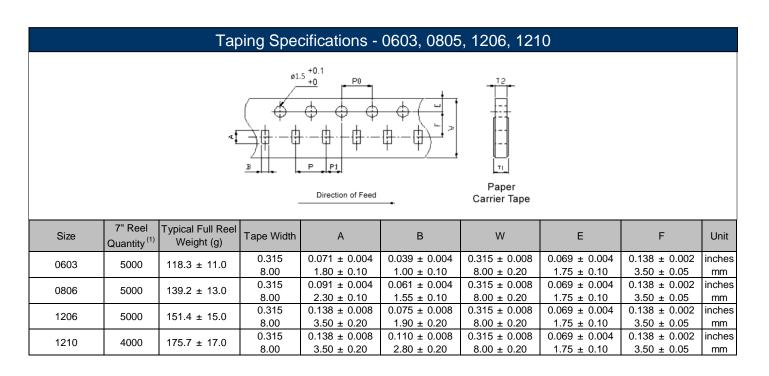
Stackpole Electronics, Inc.

Resistive Product Solutions

Taping Specifications - 01005, 0201, 0402 Taping Specifications - 01005, 0201, 0402 Direction of Feed Press Pocket Carrier Tape (01005) (0201, 0402)

Size	7" Reel Quantity	, , ,	ical Full Veight (g)	Tape Width	А	В	W	Е	F	Unit
01005	10000	127.3	± 12.0	0.315 8.00	0.018 ± 0.001 0.45 ± 0.02	0.010 ± 0.001 0.25 ± 0.02	0.315 ± 0.012 8.00 ± 0.30	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
0201	10000	97.2	97.2 ± 9.0		0.027 ± 0.002 0.68 ± 0.05	0.015 ± 0.001 0.38 ± 0.03	0.315 ± 0.004 8.00 ± 0.10	0.069 ± 0.004 1.75 ± 0.10	0.138 ± 0.002 3.50 ± 0.05	inches mm
0402	10000	94.5	5 ± 9.0	0.315 8.00	0.045 ± 0.002 1.15 ± 0.05	0.026 ± 0.002 0.65 ± 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
Size	T1	T1 T:		2	Р	P0	P1	Unit		
	0.012 . /	0.012 . 0.001 0.007 .		0.001	0.070 . 0.000	0.457 . 0.000	0.070 . 0.000	inches		

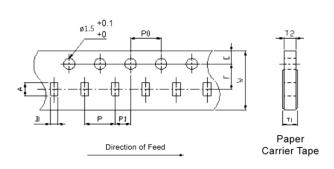
Size	T1	T2	Р	P0	P1	Unit
01005	0.012 ± 0.001	0.007 ± 0.001	0.079 ± 0.002	0.157 ± 0.002	0.079 ± 0.002	inches
	0.31 ± 0.03	0.17 ± 0.03	2.00 ± 0.05	4.00 ± 0.05	2.00 ± 0.05	mm
0201	0.017 ± 0.004	0.011 ± 0.001	0.079 ± 0.002	0.157 ± 0.002	0.079 ± 0.002	inches
0201	0.42 ± 0.10	0.28 ± 0.02	2.00 ± 0.05	4.00 ± 0.05	2.00 ± 0.05	mm
0402	0.016 ± 0.008	0.016 ± 0.002	0.079 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
0402	0.40 ± 0.20	0.40 ± 0.05	2.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm



Stackpole Electronics, Inc.

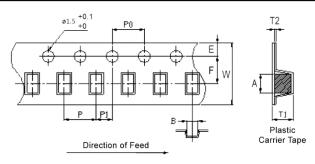
Resistive Product Solutions

Taping Specifications - 0603, 0805, 1206, 1210 (cont.)



Size	T1	T2	Р	P0	P1	Unit
0603	0.024 ± 0.008	0.024 ± 0.004	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
0603	0.60 ± 0.20	0.60 ± 0.10	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm
0805	0.030 ± 0.008	0.030 ± 0.004	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
0605	0.75 ± 0.20	0.75 ± 0.10	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm
1206	0.030 ± 0.008	0.030 ± 0.004	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
1206	0.75 ± 0.20	0.75 ± 0.10	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm
1210	0.030 ± 0.008	0.030 ± 0.004	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
1210	0.75 ± 0.20	0.75 ± 0.10	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm

Taping Specifications (2010, 2512)



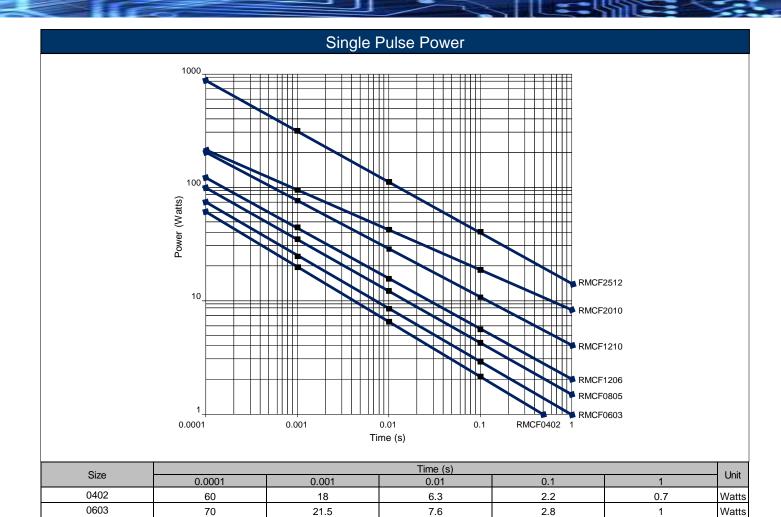
Size	7" Reel Quantity	Typical Full Reel Weight (g)	Tape Width	А	В	W	E	F	Unit
2010 4.00	4.000	4,000 183.1 ± 18.0	0.472	0.217 ± 0.008	0.110 ± 0.008	0.472 ± 0.008	0.069 ± 0.004	0.217 ± 0.002	inches
2010	4,000		12.00	5.50 ± 0.20	2.80 ± 0.20	12.00 ± 0.20	1.75 ± 0.10	5.50 ± 0.05	mm
2512	2512 4,000	255.3 ± 25.0	0.472	0.264 ± 0.008	0.134 ± 0.008	0.472 ± 0.008	0.069 ± 0.004	0.217 ± 0.002	inches
2512			12.00	6.70 ± 0.20	3.40 ± 0.20	12.00 ± 0.20	1.75 ± 0.10	5.50 ± 0.05	mm

Size	T1	T2	Р	P0	P1	Unit
2010	0.043 ± 0.006	0.009 ± 0.006	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
	1.10 ± 0.15	0.23 ± 0.15	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm
2512	0.043 ± 0.006	0.009 ± 0.006	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
	1.10 ± 0.15	0.23 ± 0.15	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm

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

Stackpole Electronics, Inc.

Resistive Product Solutions



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.

12

15

31

41

110

4.4

5.6

11

18

42

34

43

86

96

300

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 57<u>.6</u> K R-V 15 K 40.2 K 180 K 182 K 100 K 100 K 75 K Rated Power 1/20 W 1/16 W 1/10 W 1/8 W 1/4 W 1/2 W 3/4 W 1 W Maximum Rated Voltage 25 V 50 V 75 V 150 V 200 V 200 V 200 V 200 V

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

0805

1206

1210

2010

2512

1.6

2

4

8

16

Watts

Watts

Watts

Watts

Watts

94

120

240

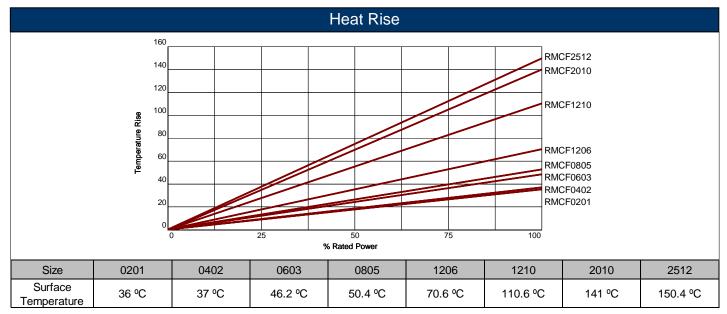
210

800

Stackpole Electronics, Inc.

Resistive Product Solutions

Test result: As per table below:



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 with 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.

Mark 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 "Y" – "F" represents a specific multiplier as follows:

Y = 0.1	X = 1	A = 10	B = 100
C = 1000	D(d) = 10000	E = 100000	F = 1000000

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

Stackpole Electronics, Inc.

Resistive Product Solutions

EXAMPLE:

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

E96											
1%	#	1%	#	1%	#	1%	#	1%	#	1%	#
10.0	01	14.7	17	21.5	33	31.6	49	46.4	65	68.1	81
10.2	02	15.0	18	22.1	34	32.4	50	47.5	66	69.8	82
10.5	03	15.4	19	22.6	35	33.2	51	48.7	67	71.5	83
10.7	04	15.8	20	23.2	36	34.0	52	49.9	68	73.2	84
11.0	05	16.2	21	23.7	37	34.8	53	51.1	69	75.0	85
11.3	06	16.5	22	24.3	38	35.7	54	52.3	70	76.8	86
11.5	07	16.9	23	24.9	39	36.5	55	53.6	71	78.7	87
11.8	80	17.4	24	25.5	40	37.4	56	54.9	72	80.6	88
12.1	09	17.8	25	26.1	41	38.3	57	56.2	73	82.5	89
12.4	10	18.2	26	26.7	42	39.2	58	57.6	74	84.5	90
12.7	11	18.7	27	27.4	43	40.2	59	59.0	75	86.6	91
13.0	12	19.1	28	28.0	44	41.2	60	60.4	76	88.7	92
13.3	13	19.6	29	28.7	45	42.2	61	61.9	77	90.9	93
13.7	14	20.0	30	29.4	46	43.2	62	63.4	78	93.1	94
14.0	15	20.5	31	30.1	47	44.2	63	64.9	79	95.3	95
14.3	16	21.0	32	30.9	48	45.3	64	66.5	80	97.6	96

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				

10

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

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

Stackpole Electronics, Inc.

Resistive Product Solutions

"Conflict Metals" Commitment

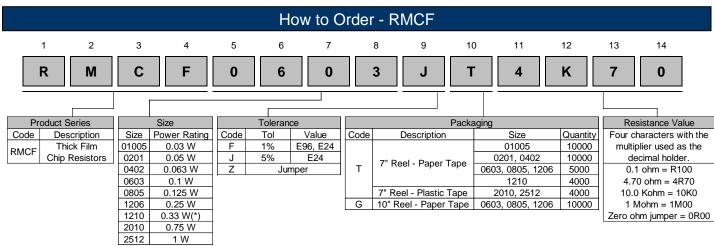
We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely 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.



(*) Power rating is 0.5~W for Ohmic values below 1 K Ω

How to Order - RMCP													
1 2 3 4		5		6	7	8 9	<u> </u>	10	11	12	13	14	
		3 4	1					, 	10		12	15	14
RMCP		C P	0		6	0	3 3	J	T	4	K	7	0
			_										
								_					
Product Series Size		Size	Tolerance					ckaging		Resistance Value			
Code Description	Size	Power Rating	Code	Tol	Value	Code Description		Size Quantity		Quantity	Four characters with the multiplier		
RMCP High Power	0201	0.063 W	F	1%	E96, E24			0201	, 0402	10000	used as the decimal holder.		
	0402	0.125 W	J	5%	E24	T 7" Reel	0603	, 0805	5000	1 ohm = 1R00			
	0603	0.25 W	Z Jumper			Paper Tape	1206	1206, 1210		10 Kohm = 10K0			
	0805	0.33 W						2010, 2512 4000		1 Mohm = 1M00			
	1206	0.33 W				40" D I	0603	0603, 0805				•	
	1210	0.5 W				G	10" Reel	1206	, 1210	1210			
	2010 1 V		ı		Paper Tape	20	2010 800						
	2512	2 W					•						