### **RMCF/RMCP Series**

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 (Watts) @ 70°C	Maximum Working	Maximum Overload	Maximum Current	Resistance Temperature	Ohmic Range (Ω)						
	( 3333)	Voltage (1)	Voltage		Coefficient	1%	5%					
RMCF01005	0.03W	15V	30V	0.5 Amp	-200/+600 ppm/°C	1 - 9						
	0.0011		001	0.07	± 250 ppm/°C	10 -						
RMCF0201	0.05W	25V	50V	1 Amp	± 400 ppm/°C	1 - 9						
					± 200 ppm/°C	10 -						
					± 300 ppm/°C	0.2 - 0						
					± 250 ppm/°C	0.4 -						
RMCF0402	0.063W	50V	100V	1 Amp	± 200 ppm/°C	0.604						
					± 100 ppm/°C	10 -						
					± 200 ppm/°C	1.02M - 10M	1.1M - 20M					
					± 500 ppm/°C	0.1 - 0	0.499					
					± 400 ppm/°C	0.5 -	0.976					
RMCF0603	0.1W	75V	150V	1 Amp	± 200 ppm/°C	1 - 9.76	1 - 20M					
					± 100 ppm/°C	10 - 1M	-					
					± 200 ppm/°C	1.02M - 10M	-					
				2 Amp	± 200 ppm/°C	0.1 - 9.76	0.1 - 20M					
RMCF0805	0.125W	150V	300V		± 100 ppm/°C	10 - 1M	-					
					± 200 ppm/°C	1.02M - 10M	-					
					± 200 ppm/°C	0.1 - 9.76	0.1 - 20M					
RMCF1206	0.25W	200V	400V	2 Amp	± 100 ppm/°C	10 - 1M	-					
					± 200 ppm/°C	1.02M - 10M	-					
					± 200 ppm/°C	0.1 - (	).976					
DMOE4040	0.00144(3)	0001/	400)/	0.4	± 400 ppm/°C	1 - 9	0.76					
RMCF1210	0.33W <sup>(3)</sup>	200V	400V	3 Amp	± 200 ppm/°C	-	10 - 20M					
					± 100 ppm/°C	10 - 10M	-					
					± 200 ppm/°C	0.1 - (	0.976					
DMOFOOAO	0.75\4/	0001/	400)/		± 400 ppm/°C	1 - 9	0.76					
RMCF2010	0.75W	200V	400V	3 Amp	± 200 ppm/°C	-	10 - 10M					
					± 100 ppm/°C	10 - 10M	-					
					± 200 ppm/°C	0.1 - (	0.976					
DIADECT 45	4344	2221	400)		± 400 ppm/°C	1 - 9.76						
RMCF2512	1W	200V	400V	3 Amp	± 200 ppm/°C	-	10 - 10M					
					± 100 ppm/°C	10 - 10M	-					

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

<sup>(2)</sup> Contact factory for extended ohmic values

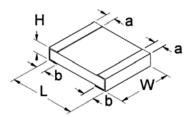
<sup>(3)</sup> Power rating is 0.5W for ohmic values  $1 \text{K}\Omega$  and below

			Electrical S	Specification	ns - RMCP	
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working	Maximum Overload	Maximum Current	Resistance Temperature	Ohmic Range ( $\Omega$ ) and Tolerance $^{(2)}$
	(walls) @ 70°C	Voltage (1)	Voltage	Current	Coefficient	1%, 5%
RMCP0201	0.063W	25V	50V	1 Amp	-200/+400 ppm/°C	1 - 9.76
RIVICPU201	0.063	25 V	507	i Amp	± 200 ppm/°C	10 - 1M
RMCP0402	0.125W	50V	100V	1.5 Amp	± 200 ppm/°C	1 - 9.76
RIVICPU402	0.125	50 V	1000	1.5 Amp	± 100 ppm/°C	10 - 1M
RMCP0603	0.25W	75V	150V	2 Amp	± 200 ppm/°C	1 - 9.76
KWCF 0003				2 Amp	± 100 ppm/°C	10 - 1M
RMCP0805	0.33W	150V	300V	300V 2.5 Amp	± 200 ppm/°C	1 - 9.76
KWCF 0003	0.33	130 V	300 V	2.5 Amp	± 100 ppm/°C	10 - 1M
RMCP1206	0.33W	200V	400V	3.5 Amp	± 200 ppm/°C	1 - 9.76
KWCF 1200	0.33	200 V	400 V	3.3 Amp	± 100 ppm/°C	10 - 1M
RMCP1210	0.5W	200V	400V	5 Amp	± 200 ppm/°C	1 - 9.76
KIVICE 1210	0.5	200 V	400 V	5 Amp	± 100 ppm/°C	10 - 1M
RMCP2010	1W	200V	400V	6 Amp	± 200 ppm/°C	1 - 9.76
INVICE ZUTU	1 7 7	200 V	4007	0 Amp	± 100 ppm/°C	10 - 1M
RMCP2512	2W	250V	500V	7 Amn	± 200 ppm/°C	1 - 9.76
INVIOR 2012	200	250 V	3007	7 Amp	± 100 ppm/°C	10 - 1M

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

(2) Contact factory for extended ohmic values

# Mechanical Specifications



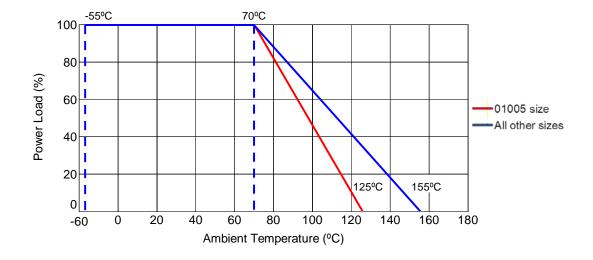
Type / Code	Average Unit Weight (mg)	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RMCF01005	0.07	0.016 ± 0.0008	$0.008 \pm 0.0008$	$0.005 \pm 0.0008$	0.004 ± 0.0012	0.004 ± 0.0012	inches
KWC1 01005	0.07	$0.40 \pm 0.02$	$0.20 \pm 0.02$	$0.13 \pm 0.02$	$0.10 \pm 0.03$	$0.10 \pm 0.03$	mm
RMCF0201	0.16	$0.024 \pm 0.0012$	$0.012 \pm 0.0012$	$0.009 \pm 0.0012$	$0.006 \pm 0.002$	$0.006 \pm 0.002$	inches
RMCP0201	0.16	$0.60 \pm 0.03$	$0.30 \pm 0.03$	$0.23 \pm 0.03$	$0.15 \pm 0.05$	$0.15 \pm 0.05$	mm
RMCF0402	0.57	$0.039 \pm 0.004$	$0.020 \pm 0.002$	$0.012 \pm 0.004$	$0.008 \pm 0.004$	$0.010 \pm 0.006$	inches
RMCP0402	0.62	$1.00 \pm 0.10$	$0.50 \pm 0.05$	$0.30 \pm 0.10$	$0.20 \pm 0.10$	$0.25 \pm 0.15$	mm
RMCF0603	1.88	$0.061 \pm 0.006$	0.031 + 0.006	$0.018 \pm 0.004$	$0.012 \pm 0.008$	$0.012 \pm 0.008$	inches
RMCP0603	2.04	1.55 ± 0.15	0.80 + 0.15	$0.45 \pm 0.10$	$0.30 \pm 0.20$	$0.30 \pm 0.20$	mm
RMCF0805	5.00	$0.079 \pm 0.008$	$0.049 \pm 0.004$	$0.020 \pm 0.006$	0.014 ± 0.010	0.014 ± 0.010	inches
RMCP0805	4.37	$2.00 \pm 0.20$	1.25 ± 0.10	$0.50 \pm 0.15$	$0.35 \pm 0.25$	$0.35 \pm 0.25$	mm
RMCF1206	8.86	$0.126 \pm 0.010$	$0.063 \pm 0.006$	$0.022 \pm 0.006$	$0.020 \pm 0.012$	$0.020 \pm 0.012$	inches
RMCP1206	8.95	$3.20 \pm 0.25$	$1.60 \pm 0.15$	$0.55 \pm 0.15$	$0.50 \pm 0.30$	$0.50 \pm 0.30$	mm
RMCF1210	15.55	$0.126 \pm 0.010$	$0.098 \pm 0.010$	$0.022 \pm 0.006$	$0.020 \pm 0.012$	$0.020 \pm 0.012$	inches
RMCP1210	15.96	$3.20 \pm 0.25$	$2.50 \pm 0.25$	$0.55 \pm 0.15$	$0.50 \pm 0.30$	$0.50 \pm 0.30$	mm
RMCF2010	23.56	$0.197 \pm 0.008$	$0.098 \pm 0.008$	$0.022 \pm 0.006$	$0.024 \pm 0.012$	$0.024 \pm 0.014$	inches
RMCP2010	24.24	$5.00 \pm 0.20$	$2.50 \pm 0.20$	$0.55 \pm 0.15$	$0.60 \pm 0.30$	$0.60 \pm 0.35$	mm
RMCF2512	40.02	$0.248 \pm 0.008$	0.126 ± 0.010	$0.022 \pm 0.006$	$0.024 \pm 0.012$	$0.024 \pm 0.014$	inches
RMCP2512	39.45	$6.30 \pm 0.20$	$3.20 \pm 0.25$	$0.55 \pm 0.15$	$0.60 \pm 0.30$	$0.60 \pm 0.35$	mm

# Stackpole Electronics, Inc. Resistive Product Solutions

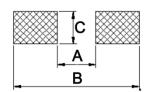
	Performance Char	acteristics
Test	Test Specifications	Test Conditions (JIS-C 5202)
Short Time Overload	±(2%+0.1Ω)	2.5x rated voltage for 5 seconds
Dielectric Withstanding Voltage	±(1%+0.05Ω)	100 VAC, 1 minute
Resistance to Soldering Heat	±1%	260°C±5°C, for 10 seconds ±0.5 seconds (Solder Bath)
Solderability	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)
Endurance (Damp load)	$\pm (3\% + 0.1\Omega)$ Jumper (<0.05 $\Omega$ )	40°C±2°C, 90% RH, Rated Load 90 minutes On, 30 minutes Off for 1,000 hours -0 hour/+48hours
Endurance (Rated load)	±(3%+0.1Ω) Jumper (<0.05Ω)	70°C±2°C, Rated Load 90 minutes On, 30 minutes Off for 1,000 hours -0 hour/+48hours
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 Ohm)	Bend of 3mm for 5±1 seconds

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

#### Power Derating Curve:



# Recommended Pad Layout

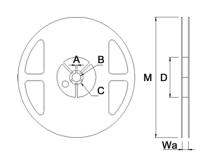


Type / Code	А	В	С	Unit
01005	0.008	0.020	0.008	inches
01005	0.20	0.50	0.20	mm
0204	0.012	0.039	0.016	inches
0201	0.30	1.00	0.40	mm
0403	0.020	0.059	0.024	inches
0402	0.50	1.50	0.60	mm
0003	0.031	0.083	0.035	inches
0603	0.80	2.10	0.90	mm
0005	0.047	0.118	0.051	inches
0805	1.20	3.00	1.30	mm
1206	0.087	0.165	0.063	inches
1206	2.20	4.20	1.60	mm
4240	0.087	0.165	0.110	inches
1210	2.20	4.20	2.80	mm
2040	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)

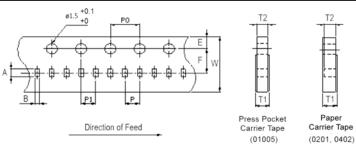
# **Packaging Specifications**

Nominal dimensions: Inches (mm)



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

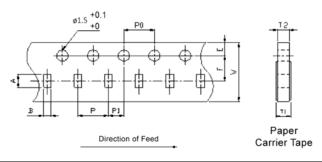
# Taping Specifications - 01005, 0201, 0402



Туре	7" Reel Quantity	Typical Full Reel Weight (g)	Tape Width	А	В	W	Е	F	Unit
RMCF01005	20,000	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
RMCF0201	10,000	97.2 ± 9.0	0.315 8.00	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
RMCF0402	10,000	94.5 ± 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

Туре	T1	T2	Р	P0	P1	Unit
RMCF01005	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
RMCF0201	0.017 ± 0.004	0.011 ± 0.001	0.079 ± 0.002	0.157 ± 0.002	0.079 ± 0.002	inches
	0.42 ± 0.10	0.28 ± 0.02	2.00 ± 0.05	4.00 ± 0.05	2.00 ± 0.05	mm
RMCF0402	0.016 ± 0.008	0.016 ± 0.002	0.079 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
	0.40 ± 0.20	0.40 ± 0.05	2.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm

# Taping Specifications - 0603, 0805, 1206, 1210

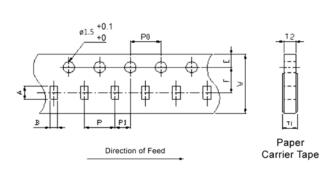


Туре	7" Reel Quantity (1)	Typical Full Reel Weight (g)	Tape Width	А	В	W	E	F	Unit
RMCF0603	5000	118.3 ± 11.0	0.315 8.00	0.071 ± 0.004 1.80 ± 0.10	$0.039 \pm 0.004$ $1.00 \pm 0.10$	0.315 ± 0.008 8.00 ± 0.20	$0.069 \pm 0.004$ $1.75 \pm 0.10$	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCF0805	5000	139.2 ± 13.0	0.315 8.00	0.091 ± 0.004 2.30 ± 0.10	0.061 ± 0.004 1.55 ± 0.10	0.315 ± 0.008 8.00 ± 0.20	$0.069 \pm 0.004$ $1.75 \pm 0.10$	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCF1206	5000	151.4 ± 15.0	0.315 8.00	$0.138 \pm 0.008$ $3.50 \pm 0.20$	0.075 ± 0.008 1.90 ± 0.20	0.315 ± 0.008 8.00 ± 0.20	$0.069 \pm 0.004$ $1.75 \pm 0.10$	0.138 ± 0.002 3.50 ± 0.05	inches mm
RMCF1210	4000	175.7 ± 17.0	0.315 8.00	0.138 ± 0.008 3.50 ± 0.20	0.110 ± 0.008 2.80 ± 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

# Stackpole Electronics, Inc.

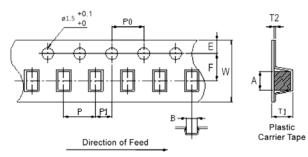
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### Taping Specifications - 0603, 0805, 1206, 1210 (cont.)



Туре	T1	T2	Р	P0	P1	Unit
RMCF0603	$0.024 \pm 0.008$	$0.024 \pm 0.004$	$0.157 \pm 0.004$	0.157 ± 0.002	0.079 ± 0.002	inches
	$0.60 \pm 0.20$	$0.60 \pm 0.10$	$4.00 \pm 0.10$	4.00 ± 0.05	2.00 ± 0.05	mm
RMCF0805	0.030 ± 0.008	0.030 ± 0.004	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
	0.75 ± 0.20	0.75 ± 0.10	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm
RMCF1206	0.030 ± 0.008	0.030 ± 0.004	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
	0.75 ± 0.20	0.75 ± 0.10	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	mm
RMCF1210	0.030 ± 0.008	0.030 ± 0.004	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	inches
	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)

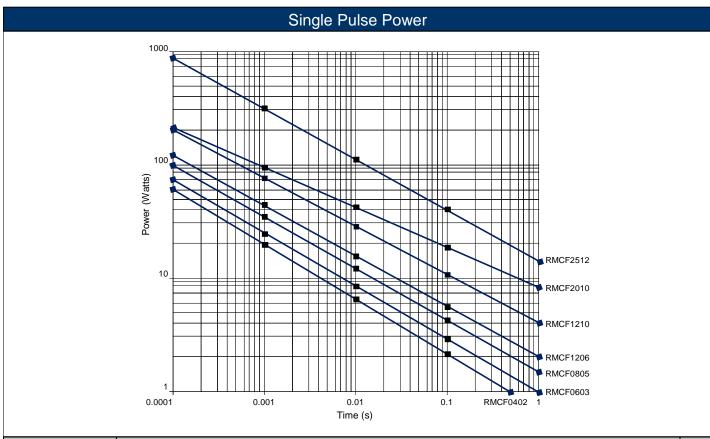


Туре	7" Reel Quantity	Typical Full Reel Weight (g)	Tape Width	А	В	W	Е	F	Unit
RMCF2010	4,000	183.1 ± 18.0	0.472 12.00	0.217 ± 0.008 5.50 ± 0.20	0.110 ± 0.008 2.80 ± 0.20	0.472 ± 0.008 12.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.002 5.50 ± 0.05	inches mm
RMCF2512	4,000	255.3 ± 25.0	0.472 12.00	0.264 ± 0.008 6.70 ± 0.20	0.134 ± 0.008 3.40 ± 0.20	0.472 ± 0.008 12.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.002 5.50 ± 0.05	inches mm

Туре	T1	T2	Р	P0	P1	Unit
RMCF2010	0.043 ± 0.006 1.10 ± 0.15	0.009 ± 0.006 0.23 ± 0.15	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.002 4.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	inches mm
RMCF2512	0.043 ± 0.006 1.10 ± 0.15	0.009 ± 0.006 0.23 ± 0.15	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.002 4.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	inches mm

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

General Purpose Thick Film Standard Power and High Power Chip Resistor



Size	Time (s)								
	0.0001	0.001	0.01	0.1	1	Unit			
RMCF0402	60	18	6.3	2.2	0.7	Watts			
RMCF0603	70	21.5	7.6	2.8	1	Watts			
RMCF0805	94	34	12	4.4	1.6	Watts			
RMCF1206	120	43	15	5.6	2	Watts			
RMCF1210	240	86	31	11	4	Watts			
RMCF2010	210	96	41	18	8	Watts			
RMCF2512	800	300	110	42	16	Watts			

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.

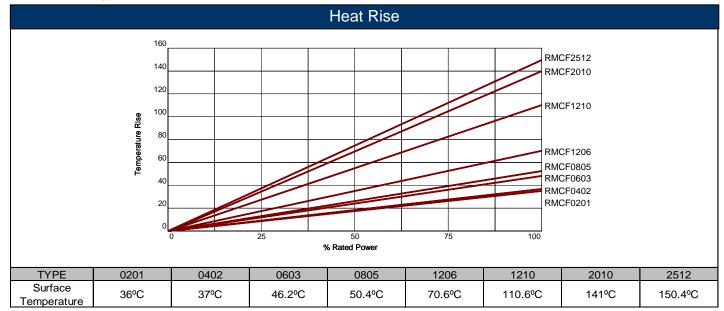
#### Temperature Measurement of Resistor Surface

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

Stackpole P/N	RMCF0201	RMCF0402	RMCF0603	RMCF0805	RMCF1206	RMCF1210	RMCF2010	RMCF2512
R-V	15K	40.2K	57.6K	180K	182K	100K	100K	75K
Rated Power	1/20W	1/16W	1/10W	1/8W	1/4W	1/2W	3/4W	1W
Maximum Rated Voltage	25V	50V	75V	150V	200V	200V	200V	200V

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

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	B = 100	E = 100,000
X = 1	C = 1,000	F = 1,000,000
A = 10	D(d) = 10,000	

### **RMCF/RMCP Series**

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	$90.9 \times 10{,}000 = 909 \text{ K ohm}$		

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	08	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				

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

### RMCF/RMCP Series

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.

