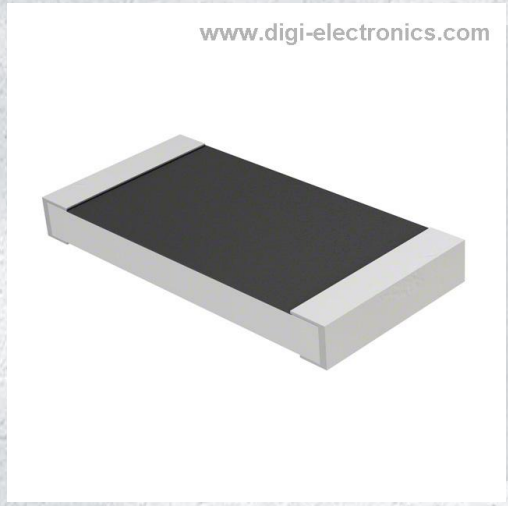
RMCF2010FT3R74 Datasheet



DiGi Electronics Part Number	RMCF2010FT3R74-DG
Manufacturer	Stackpole Electronics Inc
Manufacturer Product Number	RMCF2010FT3R74
Description	RES 3.74 OHM 1% 3/4W 2010
Detailed Description	3.74 Ohms ±1% 0.75W, 3/4W Chip Resistor 2010 (50 25 Metric) Automotive AEC-Q200 Thick Film

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Manufacturer Product Number:	Manufacturer:
RMCF2010FT3R74	Stackpole Electronics Inc
Series:	Product Status:
RMCF	Active
Resistance:	Tolerance:
3.74 Ohms	±1%
Power (Watts):	Composition:
0.75W, 3/4W	Thick Film
Features:	Temperature Coefficient:
Automotive AEC-Q200	±400ppm/°C
Operating Temperature:	Package / Case:
-55°C ~ 155°C	2010 (5025 Metric)
Supplier Device Package:	Ratings:
2010	AEC-Q200
Size / Dimension:	Height - Seated (Max):
0.197" L x 0.098" W (5.00mm x 2.50mm)	0.028" (0.70mm)
Number of Terminations:	Failure Rate:
2	-

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8533.21.0030	

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 70ºC to zero at +155ºC
- RoHS compliant, REACH compliant, and halogen free
- AEC-Q200 compliant (except 01005 and 0201 sizes)
- For ultra-high power, see RMCP-UP Series – Thick Film Ultra High-Power Chip Resistor

Electrical Specifications - RMCF

Type/Code	Power Rating (W) @ 70ºC	Max. Working Voltage (V) (1)	Max. Overload Voltage (V)	Jumper Rated Current (A)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance (2)	
						1%	5%
RMCF01005	0.03	15	30	0.5	± 300	10 - 97.6	
					± 200	100 - 1M	
RMCF0201	0.05	25	50	0.5	± 400	1 - 9.76	
					± 200	10 - 10M	
RMCF0402	0.063	50	100	1	± 200	1 - 9.76	
					± 100	10 - 1M	
					± 200	1.02M - 22.1M	1.1M - 22M
RMCF0603	0.1	75	150	1	± 500	0.1 - 0.499	
					± 400	0.5 - 0.976	
					± 200	1 - 9.76	1 - 22M
					± 100	10 - 1M	-
					± 200	1.02M - 22.1M	-
RMCF0805	0.125	150	300	2	± 200	0.1 - 9.76	0.1 - 22M
					± 100	10 - 1M	-
					± 200	1.02M - 22.1M	-
RMCF1206	0.25	200	400	2	± 200	0.1 - 9.76	0.1 - 22M
					± 100	10 - 1M	-
					± 200	1.02M - 22.1M	-
RMCF1210	0.5	200	400	3	± 200	0.1 - 0.976	
					± 400	1 - 9.76	
					± 100	10 - 10M	
RMCF2010	0.75	200	400	3	± 200	0.1 - 0.976	
					± 400	1 - 9.76	
					± 200	-	10 - 10M
					± 100	10 - 10M	-
RMCF2512	1	200	400	3	± 200	0.1 - 0.976	
					± 400	1 - 9.76	
					± 200	-	10 - 10M
					± 100	10 - 10M	-

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

This specification may be changed at any time without prior notice.
Please confirm technical specifications before use.

RMCF / RMCP Series

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) @ 70ºC	Max. Working Voltage (V) (1)	Max. Overload Voltage (V)	Jumper Rated Current (A)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance (2)
						1%, 5%
RMCP0201	0.063	25	50	1	-200 / +400	1 - 9.76
					± 200	10 - 10M
RMCP0402	0.125	50	100	1.5	± 200	1 - 9.76
					± 100	10 - 10M
RMCP0603	0.25	75	150	2	± 200	1 - 9.76
					± 100	10 - 10M
RMCP0805	0.33	150	300	2.5	± 200	1 - 9.76
					± 100	10 - 10M
RMCP1206	0.5	200	400	3.5	± 400	1 - 9.76
					± 100	10 - 10M
RMCP1210	0.66	200	400	5	± 400	1 - 9.76
					± 100	10 - 10M
RMCP2010	1	200	400	6	± 200	1 - 9.76
					± 100	10 - 10M
RMCP2512	2	250	500	7	± 200	1 - 9.76
					± 100	10 - 10M

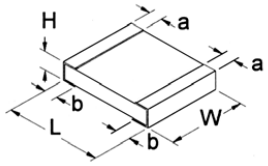
Notes: (1) Lesser of √(P*R) or maximum working voltage
(2) Contact Stackpole for higher or lower values
The resistance value range for RMCP jumper is max. 0.02Ω

Electrical Specifications - Jumper

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

* < 1 second and 1 time

Mechanical Specifications



Type/Code	Typical Unit Weight (mg)	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RMCF01005	0.07	0.016 ± 0.001	0.008 ± 0.001	0.005 ± 0.001	0.004 ± 0.001	0.004 ± 0.001	inches
		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 ± 0.001	0.012 ± 0.001	0.009 ± 0.002	0.006 ± 0.002	0.006 ± 0.002	inches
RMCP0201		0.60 ± 0.03	0.30 ± 0.03	0.23 ± 0.05	0.15 ± 0.05	0.15 ± 0.05	mm
RMCF0402	0.57	0.039 ± 0.004	0.020 ± 0.002	0.012 ± 0.004	0.006 ± 0.004	0.010 ± 0.006	inches
RMCP0402	0.62	1.00 ± 0.10	0.50 ± 0.05	0.30 ± 0.10	0.15 ± 0.10	0.25 ± 0.15	mm
RMCF0603	1.9	0.061 ± 0.006	0.031 ± 0.006	0.018 ± 0.006	0.012 ± 0.008	0.012 ± 0.008	inches
RMCP0603	2.0	1.55 ± 0.15	0.80 ± 0.15	0.45 ± 0.15	0.30 ± 0.20	0.30 ± 0.20	mm
RMCF0805	5.0	0.079 ± 0.008	0.049 ± 0.004	0.020 ± 0.006	0.014 ± 0.010	0.014 ± 0.010	inches
RMCP0805	4.4	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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RMCF / RMCP Series

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

Stackpole Electronics, Inc.
Resistive Product Solutions

Mechanical Specifications (cont.)

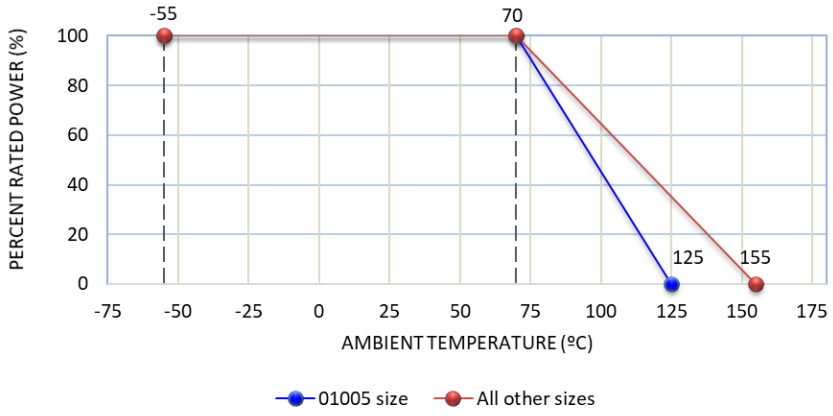
Type/Code	Typical Unit Weight (mg)	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RMCF1206	8.9	0.126 ± 0.010	0.063 ± 0.006	0.022 ± 0.006	0.020 ± 0.012	0.020 ± 0.012	inches
RMCP1206		3.20 ± 0.25	1.60 ± 0.15	0.55 ± 0.15	0.50 ± 0.30	0.50 ± 0.30	mm
RMCF1210	15.6	0.126 ± 0.010	0.098 ± 0.010	0.022 ± 0.006	0.020 ± 0.012	0.020 ± 0.012	inches
RMCP1210	16.0	3.20 ± 0.25	2.50 ± 0.25	0.55 ± 0.15	0.50 ± 0.30	0.50 ± 0.30	mm
RMCF2010	23.6	0.197 ± 0.008	0.098 ± 0.008	0.022 ± 0.006	0.024 ± 0.012	0.024 ± 0.014	inches
RMCP2010	24.2	5.00 ± 0.20	2.50 ± 0.20	0.55 ± 0.15	0.60 ± 0.30	0.60 ± 0.35	mm
RMCF2512	40.0	0.248 ± 0.008	0.126 ± 0.010	0.022 ± 0.008	0.024 ± 0.012	0.024 ± 0.014	inches
RMCP2512	39.4	6.30 ± 0.20	3.20 ± 0.25	0.55 ± 0.20	0.60 ± 0.30	0.60 ± 0.35	mm

Performance Characteristics

Test	Test Specifications	Test Conditions (JIS-C 5202)
Short Time Overload	± (2% + 0.1Ω)	2.5 x rated voltage for 5 seconds
	Jumper: Max 0.05Ω after test	0201 = 1 A 0402 / 0603 = 2.5 A 0805 / 1206 / 1210 / 2010 / 2512 = 5 A
Dielectric Withstanding Voltage	No flashover or breakdown	100 VAC, 1 minute
Resistance to Soldering Heat	± 1%	260 ± 5ºC, for 10 seconds ± 0.5 seconds (Solder Bath)
Solderability	95% coverage, minimum	235 ± 5ºC, for 2 seconds ± 0.5 seconds (Colophonium flux)
Temperature Cycle	± (1% + 0.05Ω) Jumper (< 0.05Ω)	-65ºC: 30 minutes 25ºC: 2 to 3 minutes 155ºC: 30 minutes 25ºC: 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 ± 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 2 mm for 5 ± 1 seconds
Resistance to Solvent	1%: ± (0.5% + 0.05Ω) 5%: ± (0.5% + 0.05Ω) Jumper: Max. 0.05Ω after test	The tested resistor should be immersed into isopropyl alcohol of 20 to 25°C for 60 seconds. Then the resitor is left in the room for 48 hours.
Damp Heat with Load	1%: ± (1% + 0.05Ω) 5%: ± (2% + 0.05Ω) Values < 1Ω: ± (3% + 0.1Ω) Jumper: Max. 0.1Ω after test	40 ± 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 to +155°C for all sizes except for 01005 size
Operating temperature range for 01005 is -55 to +125°C

Power Derating Curve:



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Repetitive Pulse Information

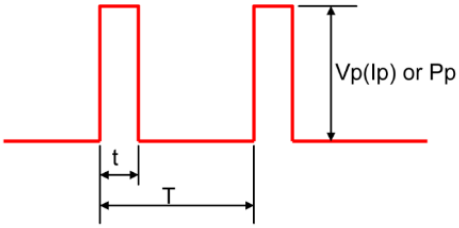
(This information is for reference only and is not guaranteed performance.)

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.

$Vp = K\sqrt{PxRxT/t}$

$Ip = K\sqrt{P/RxT/t}$

$Pp = K^2 xPxT/t$



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 1: If T > 10 → T = 10 (sec), T/t > 1000 → T/t = 1000
Note 2: If T > 10 and T/t > 1000, “Pulse Limiting power (Single pulse) is applied
Note 3: If Vp < Vr (Ip < Ir or Pp < P), Vr (Ir, P) is Vp (Ip, 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”.

RMCF Coefficient (K) Matrix	
Ohmic Value	K
R < 10Ω	0.50
10Ω ≤ R < 100Ω	0.45
100Ω ≤ R < 1KΩ	0.35
1KΩ ≤ R < 10KΩ	0.25
10KΩ ≤ R	0.20

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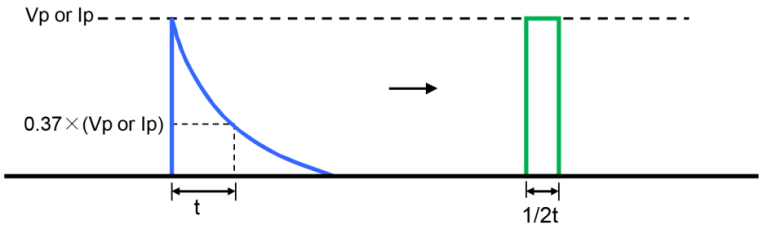
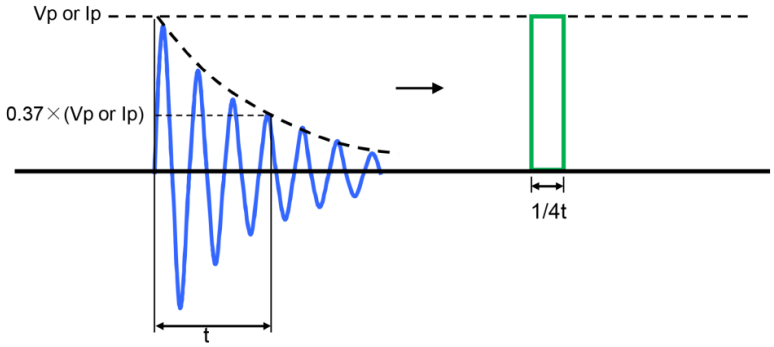
Please confirm technical specifications before use.

Waveform Transformation to Square Wave

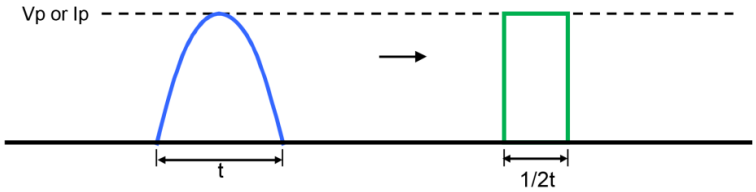
1. Discharge curve wave with time constant “t” → Square wave



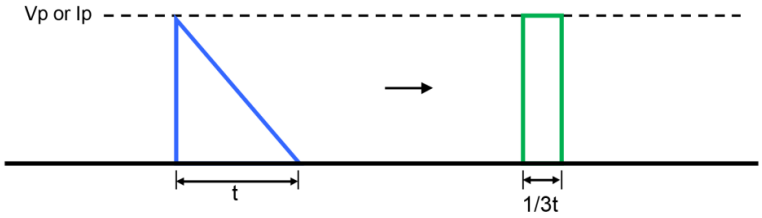
2. Damping oscillation wave with time constant of envelope “t” → Square wave



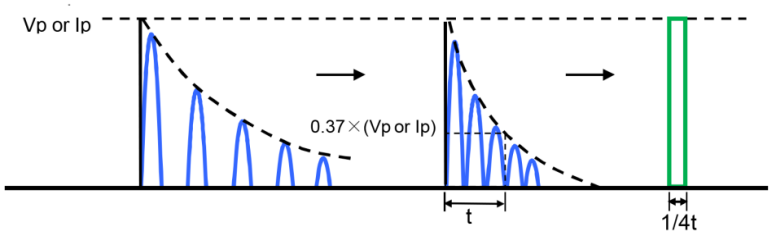
3. Half-wave rectification wave → Square wave



4. Triangular wave → Square wave



5. Special wave → Square wave



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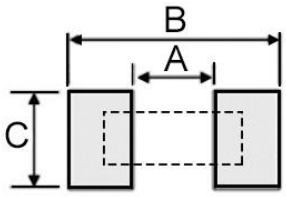
Recommended Pad Layout



Type/Code	A	B	C	Unit
RMCF01005	0.008 0.20	0.020 0.50	0.008 0.20	inches mm
RMCF0201 RMCP0201	0.012 0.30	0.039 1.00	0.016 0.40	inches mm
RMCF0402 RMCP0402	0.020 0.50	0.059 1.50	0.024 0.60	inches mm
RMCF0603 RMCP0603	0.031 0.80	0.083 2.10	0.035 0.90	inches mm
RMCF0805 RMCP0805	0.047 1.20	0.118 3.00	0.051 1.30	inches mm
RMCF1206 RMCP1206	0.087 2.20	0.165 4.20	0.063 1.60	inches mm
RMCF1210 RMCP1210	0.087 2.20	0.165 4.20	0.110 2.80	inches mm
RMCF2010 RMCP2010	0.138 3.50	0.240 6.10	0.110 2.80	inches mm
RMCF2512 RMCP2512	0.193 4.90	0.315 8.00	0.138 3.50	inches 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 is 3.

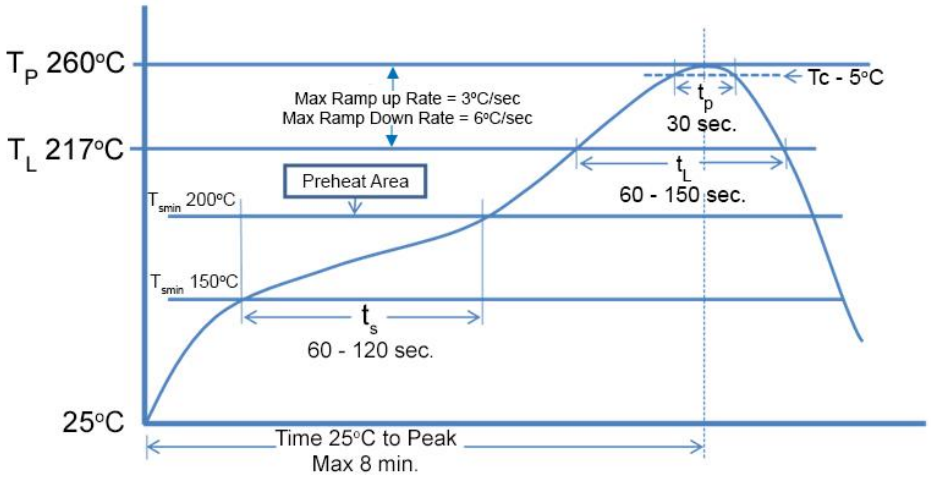
Wave Soldering			
Description	Maximum	Recommended	Minimum
Preheat Time	80 seconds	70 seconds	60 seconds
Temperature Diff.	140°C	120°C	100°C
Solder Temp.	260°C	250°C	240°C
Dwell Time at Max	10 seconds	5 seconds	*
Ramp DN (°C/sec)	N/A	N/A	N/A

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

This specification may be changed at any time without prior notice.
Please confirm technical specifications before use.

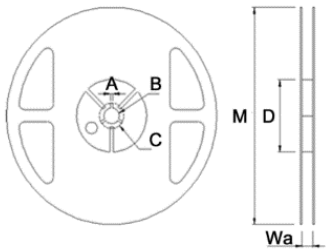
Convection IR Reflow			
Description	Maximum	Recommended	Minimum
Ramp Up (°C/sec)	3°C/sec	2°C/sec	*
Dwell Time > 217°C	150 seconds	90 seconds	60 seconds
Solder Temp.	260°C	245°C	*
Dwell Time at Max.	30 seconds	15 seconds	10 seconds
Ramp DN (°C/sec)	6°C/sec	3°C/sec	*

Recommended Resistor Reflow Profile



Packaging (EIA Standard RS-481)

Reel Specifications



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

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RMCF / RMCP Series

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

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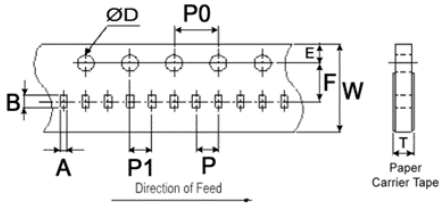
Resistive Product Solutions

Packaging Specifications – Paper Tape (sizes 01005 - 1210)



Type/Code	Nominal Typical Full Reel Weight (g)	Tape Width	A	B	W	E	Unit
RMCF01005	127.3	0.315 8.00	0.009 ± 0.002 0.24 ± 0.05	0.018 ± 0.004 0.45 ± 0.10	0.315 ± 0.008 8.00 ± 0.20	0.069 ± 0.004 1.75 ± 0.10	inches mm
RMCF0201 RMCP0201	97.2		0.016 ± 0.006 0.40 ± 0.15	0.028 ± 0.006 0.70 ± 0.15			inches mm
RMCF0402 RMCP0402	94.5		0.028 ± 0.006 0.70 ± 0.15	0.047 ± 0.006 1.20 ± 0.15			inches mm
RMCF0603 RMCP0603	118.3		0.041 ± 0.008 1.05 ± 0.20	0.071 ± 0.008 1.80 ± 0.20			inches mm
RMCF0805 RMCP0805	139.2		0.063 ± 0.010 1.60 ± 0.25	0.093 ± 0.010 2.35 ± 0.25			inches mm
RMCF1206 RMCP1206	151.4		0.077 ± 0.010 1.95 ± 0.25	0.140 ± 0.010 3.55 ± 0.25			inches mm
RMCF1210 RMCP1210	175.7		0.110 ± 0.010 2.80 ± 0.25	0.138 ± 0.008 3.50 ± 0.20			inches mm

Type/Code	F	T	P	P0	P1	DØ	Unit
RMCF01005	0.138 ± 0.002 3.50 ± 0.05	0.016 ± 0.004 0.40 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.004 2.00 ± 0.10	0.059 +0.004/-0 1.50 +0.10/-0	inches mm
RMCF0201 RMCP0201		0.015 ± 0.006 0.38 ± 0.15					inches mm
RMCF0402 RMCP0402		0.016 ± 0.008 0.40 ± 0.20					inches mm
RMCF0603 RMCP0603		0.024 ± 0.004 0.60 ± 0.10	0.157 ± 0.004 4.00 ± 0.10				inches mm
RMCF0805 RMCP0805		0.030 ± 0.004 0.75 ± 0.10					inches mm
RMCF1206 RMCP1206							inches mm
RMCF1210 RMCP1210							inches mm

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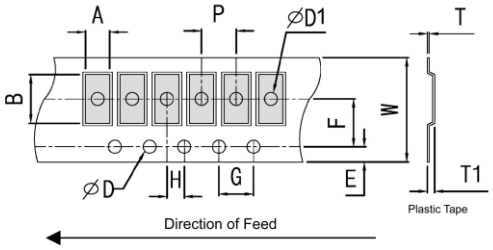
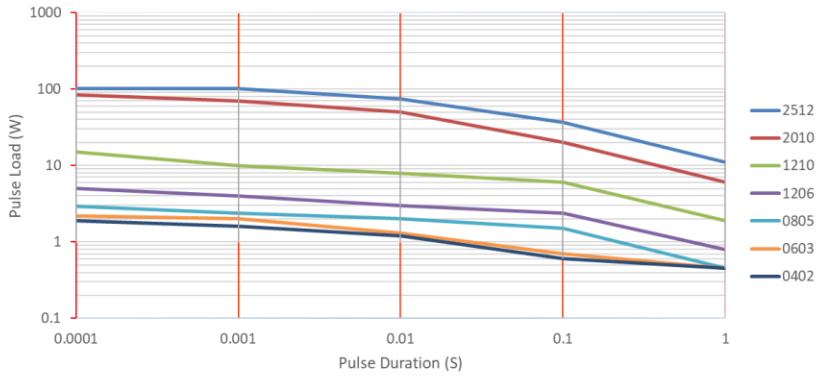
Packaging Specifications – Plastic Tape (sizes 2010 and 2512)



Type/Code	Nominal Typical Full Reel Weight (g)	Tape Width	A	B	W	E	F	Unit
RMCF2010 RMCP2010	183.1	0.472 12.00	0.110 ± 0.008 2.80 ± 0.20	0.217 ± 0.012 5.50 ± 0.30	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 RMCP2512	255.3		0.134 ± 0.008 3.40 ± 0.20	0.264 ± 0.008 6.70 ± 0.20				inches mm
Type/Code	G	H	T	ØD	ØD1	T1	P	Unit
RMCF2010 RMCP2010	0.157 ± 0.004 4.00 ± 0.10	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	0.035 ± 0.008 0.90 ± 0.20	0.157 ± 0.004 4.00 ± 0.10	inches mm
RMCF2512 RMCP2512								

Single Pulse Power



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

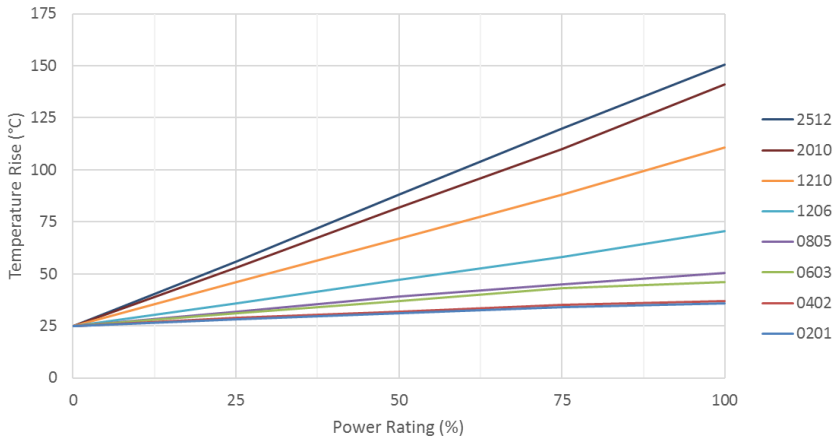
Description: The resistor surface generated temperature variation after applied rated voltage.
Products and power:

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:

This specification may be changed at any time without prior notice.
Please confirm technical specifications before use.

Hot Spot Temperature - RMCF



Size	0201	0402	0603	0805	1206	1210	2010	2512
Surface Temp. (°C)	36	37	46.2	50.4	70.6	110.6	141	150.4

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.

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Please confirm technical specifications before use.

RMCF / RMCP Series

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

Stackpole Electronics, Inc.
Resistive Product Solutions

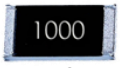
Part Marking Instructions

E96 and E24 Values for 0805-2512 (1% tolerances)

The nominal resistance is marked on the surface of the overcoating with the use of **four character markings**.

1. Values <100Ω will use "R" as the decimal holder.

1.21Ω

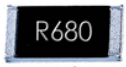


100Ω

E24 Values for 0805-2512 (5% tolerance, ≤ 0.91Ω)

The nominal resistance is marked on the surface of the overcoating with the use of **four character markings.**

1. Values ≤ 0.91Ω will use "R" as the decimal holder.



0.68Ω

E24 Values for 0805-2512 (5% tolerance, ≥ 1Ω)

The nominal resistance is marked on the surface of the overcoating with the use of **three character markings**.

1. Values between 1Ω and 9.1Ω will use "R" as the decimal holder.

1Ω

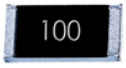
1.2 KΩ

E24 Values for 0603

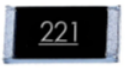
The nominal resistance is marked on the surface of the overcoating with the use of **three character markings**.

1. Values between 0.1Ω and 9.1Ω will use "R" as the decimal holder.
2. Values ≥10Ω will use no decimal holder.
3. 5% tolerance is not underlined. 1% tolerance is underlined.
   (Effective date for 1% underline marking is date codes on/or after April 1st 2025)
4. Values that are both E24 and E96 follow E96 marking rules.

0.68Ω 5%



10Ω 5%



220Ω 1%

E96 Values for 0603 size (1% tolerances)

A two character 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 from "Y" - "F" represents a specific multiplier.

10.5Ω

Alpha Character = Multiplier	
Y = 0.1	C = 1000
X = 1	D = 10000
A = 10	E = 100000
B = 100	F = 1000000

Chip Marking	Value
01B =	10.0 x 100 = 1 KΩ
25C =	17.8 x 1000 = 17.8 KΩ
93D =	90.9 x10000 = 909 KΩ

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

Note: 01005, 0201, and 0402 sizes are unmarked.

This specification may be changed at any time without prior notice.
Please confirm technical specifications before use.

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

This specification may be changed at any time without prior notice.
Please confirm technical specifications before use.

RMCF / RMCP Series

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

Stackpole Electronics, Inc.
Resistive Product Solutions

How to Order - RMCF

R	M	C	F	0	6	0	3	J	T	4	K	7	0

Product Series
Code
RMCF

Size	
Size	W
01005	0.03
0201	0.05
0402	0.063
0603	0.1
0805	0.125
1206	0.25
1210	0.5
2010	0.75
2512	1

Tolerance		
Code	Tol	Value
F	1%	E96, E24
J	5%	E24
Z	Jumper	

Packaging			
Code	Description	Size	Quantity
T	7" Reel Paper Tape	01005	10000
		0201, 0402	10000
		0603, 0805, 1206	5000
		1210	4000
	7" Reel Plastic Tape	2010, 2512	4000
G	10" Reel Paper Tape	0603, 0805, 1206	10000

Resistance Value
Four characters with the multiplier used as the decimal holder.
0.1 ohm = R100 4.70 ohm = 4R70 10.0 Kohm = 10K0 1 Mohm = 1M00 Zero ohm jumper = 0R00

How to Order - RMCP

R	M	C	P	0	6	0	3	J	T	4	K	7	0

Product Series
Code
RMCP

Size	
Size	W
0201	0.063
0402	0.125
0603	0.25
0805	0.33
1206	0.5
1210	0.66
2010	1
2512	2

Tolerance		
Code	Tol	Value
F	1%	E96, E24
J	5%	E24
Z	Jumper	

Packaging			
Code	Description	Size	Quantity
T	7" Reel Paper Tape	0201, 0402	10000
		0603, 0805 1206, 1210	5000
	7" Reel Plastic Tape	2010, 2512	4000
G	10" Reel Paper Tape	0603, 0805 1206	10000

Resistance Value
Four characters with the multiplier used as the decimal holder.
1 ohm = 1R00 10 Kohm = 10K0 1 Mohm = 1M00

This specification may be changed at any time without prior notice.
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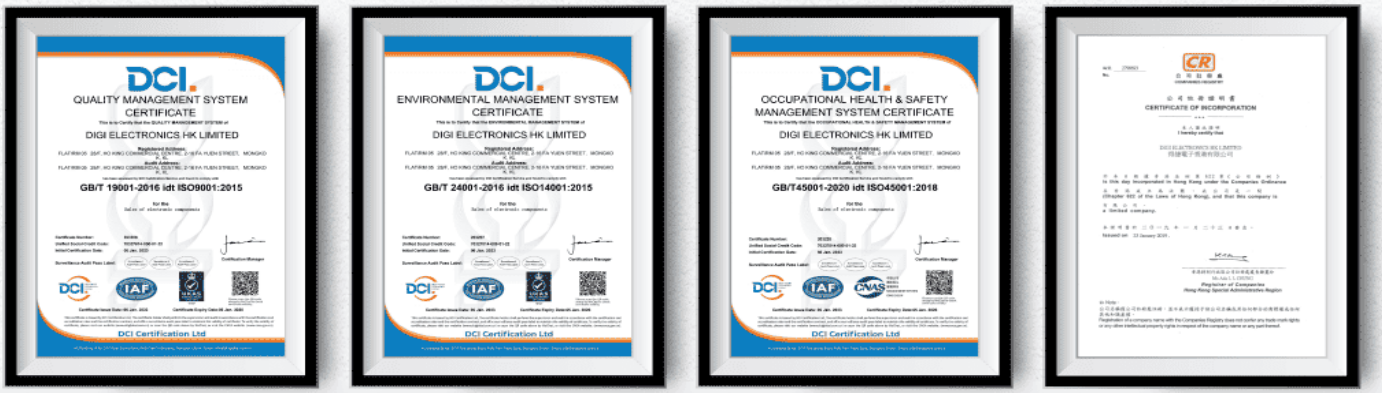
OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com



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DiGi is a global authorized distributor of electronic components.