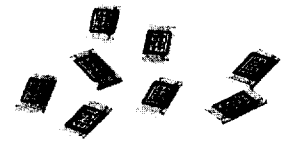
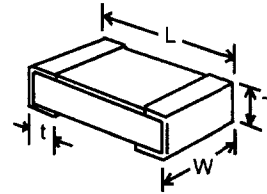


THICK FILM CHIP RESISTORS AND JUMPERS

MC SERIES 50mW (0201) to 3W (2040)

ZC SERIES Zero-ohm Chip Jumpers



- Industry's widest selection -
0.1Ω to 22M, 50mW to 3W, 0.25% to 5%, TC's to 50ppm
- 0402, 0603, 0805, 1206 sizes heavily stocked in 1% & 5%
(other sizes available from stock in many popular values)

OPTIONS

- Lead-free solder terminations (Option 'W')
- User-trimmable chips (Option 'U')
- Increased pulse capability (Option 'P')
- Mil-spec screening/burn-in, special marking, non-standard values & TC, high frequency designs, etc., are an RCD specialty!

Industry's lowest prices!

RCD's Series MC resistors utilize precision thick film technology offering inherently low inductance, exceptional reliability, and superior performance under demanding applications. Heavy solder plating with **NO LEACH™** nickel barrier assures superb solderability and long shelf life. State-of-the-art production line enables the industry's most precise accuracies (as tight as 0.25% 50ppm!) thereby replacing more costly thin-film chips in many applications. **RCD offers low cost offshore assembly of SM and leaded PCB's. Why not consider us to assemble your products?**

RCD Type MC, ZC	Wattage Rating	Std TC** ppm/°C typ	Res. Range ±0.5% Tol**	Res. Range ±1% Tol**	Resis Range ±5% Tol**	MC Voltage Rating**	TYPE ZC Jumper**	Dimensions hch [mm]			
								L	W	T	t
0201	.05W	100		10Ω to 22KΩ	10Ω to 1MΩ	25V	1 Amp Max. 50mΩ Max.	.024±.002 [0.6±.03]	.012±.002 [.3±.03]	.010±.002 [.25±.03]	.006±.002 [.15±.05]
		200		22.1K to 1MΩ							
		400									
0402 Stock item	.063W	100		10Ω to 1MΩ	10Ω to 1MΩ	50V	1 Amp Max. 50mΩ Max.	.040±.004 [1.00±.1]	.020±.004 [.5±.1]	.014±.004 [.35±.1]	.010±.004 [.25±.1]
		200									
		400		1Ω to 9.76Ω	1- 9.1Ω, 1.1M- 4.7M						
0603 Stock item	.1W	100	10Ω to 1M	10Ω to 1MΩ	10Ω to 1MΩ	50V	1 Amp Max. 50mΩ Max.	.061±.005 [1.55±.12]	.031±.004 [.8±.1]	.016±.006 [.40±.15]	.010±.006 [.25±.15]
		200									
		400		1Ω to 9.76Ω	1- 9.1Ω, 1.1M- 10M						
0805 Stock item	.125W	100	10Ω to 1M	10Ω to 1MΩ	10Ω to 1MΩ	150V	1.5Amp Max. 50mΩ Max.	.079±.005 [2.0±.15]	.050±.006 [1.25±.15]	.020±.006 [.50±.15]	.016±.008 [.4±.2]
		200									
		400		0.1-9.76Ω, 1.02M-10M	0.1-9.1Ω, 1.1M-20M						
1206 Stock item	.25W	100	10Ω to 1M	10Ω to 1MΩ	10Ω to 5.6MΩ	200V	2 Amp Max. 50mΩ Max.	.126±.008 [3.2±.2]	.061±.006 [1.55±.15]	.024±.006 [.61±.15]	.020±.008 [.51±.2]
		200									
		400		0.1-9.76Ω, 5.62M-10M	0.1-9.1Ω, 6.2M-22M						
1210	.33W	100	10Ω to 1M	10Ω to 1MΩ	10Ω to 5.6MΩ	200V	3 Amp Max. 50mΩ Max.	.126±.008 [3.2±.2]	.098±.008 [2.5±.2]	.024±.008 [.6±.2]	.020±.010 [.5±.25]
		200									
		400		0.1-9.76Ω, 5.62M-10M	0.1-9.1Ω, 6.2M-22M						
2010	.75W	100	10Ω to 1M	10Ω to 1MΩ	10Ω to 5.6MΩ	200V	3 Amp Max. 50mΩ Max.	.197±.008 [5.0±.2]	.102±.008 [2.6±.2]	.024±.008 [.6±.2]	.020±.010 [.50±.25]
		200									
		400		0.1-9.76Ω, 5.62M-10M	0.1-9.1Ω, 6.2M-22M						
2512	1.0W	100	10Ω to 1M	10Ω to 1MΩ	10Ω to 5.6MΩ	250V	4 Amp Max. 50mΩ Max.	.250±.01 [6.35±.25]	.125±.010 [3.2±.25]	.024±.008 [.6±.2]	.034±.021 [.86±.53]
		200									
		400		0.1-9.76Ω, 5.62M-10M	0.1-9.1Ω, 6.2M-22M						
2040	2.0/3.0*	100		10Ω to 1MΩ	10Ω to 1MΩ	350V	N/A	.201±.008 [5.1±.2]	.402±.008 [10.2±.2]	.024±.008 [.6±.2]	±.018 [1.4±.46]
		200									
		400									

* 2040 chips may be operated up to 3W with consideration of mounting density, termination pad area, board material, and ambient temperature to control self-heating to 155°C. ** Extended range avail.

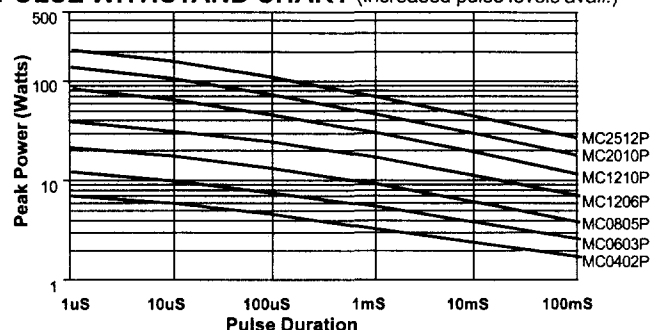
TYPICAL PERFORMANCE

Thermal Shock (-55° to +125°C)	0.2% ΔR
Overload (2.5x W, 5S, NTE 2x rated V)	1% ΔR
Low Temp. Operation (-55°C)	0.2% ΔR
High Temp. Exposure (125°C, 100hrs)	0.5% ΔR
Resistance to Solder Heat	0.2% ΔR
Moisture Resistance	0.5% ΔR
Load Life(1000 hrs.)	1.0% ΔR
Operating Temp. (+175°C avail.)	-55 to +155°C
Power Derating (above 70°C)	Derate by 1.18%/°C

P/N DESIGNATION: MC 1206 - 2210 - F T

RCD Type: MC or ZC
Chip Size: 0201 to 2040
Options: W, U, P, etc (leave blank if std)
Resis. Value: 4 digit code if tol. is 0.25% to 1%
(R100=.1Ω, 1R00=1Ω, 10R0=10Ω, 1000=100Ω, 1001=1KΩ)
3 digit code if tol. is 2% or 5% (R10=0.1Ω, 1R0=1Ω, 100=10Ω,
101=100Ω, 102=1KΩ) Leave blank on ZC zero-ohm chips
Tolerance: J=5%, G=2%, F=1%, D=0.5%, C=0.25%
Leave blank on ZC zero-ohm chips. Opt.U trimmable
chips use W=±15%, M=±20%, U=0 to +30%
Packaging: B=Bulk, T=Tape & Reel
TC: 50=50ppm, 101=100ppm, 201=200ppm (leave blank if std)

PULSE WITHSTAND CHART (increased pulse levels avail.)



Pulse capability is dependent on res. value, waveform, repetition, etc. Chart is a general guide for Opt. P version, single or infrequent pulses, with peak voltage levels not exceeding 150V for 0402 & 0603 size, 300V for 0805, 400V for 1206 & 1210, 450V for 2010 & 2512. Max pulse wattage for standard parts (w/o Opt.P) is 50% less, max pulse voltage is 50V less. Increased pulse levels available. For improved performance and reliability, a 30% pulse derating factor is recommended (50% for frequent pulses, high values, etc). Consult RCD for application assistance. Verify selection by evaluating under worst-case conditions.

RCD Components Inc., 520 E. Industrial Park Dr., Manchester, NH USA 03109

Tel: (603) 669-0054 Fax: (603) 669-5455 E-mail: sales@rcdcomponents.com www.rcdcomponents.com

FA033C Specifications subject to change without notice