

0402 0603
0805

RXI

1206 1210
2010 2512
2512S



Features

Thick film technology

Full Wraparound

Nickel Barrier for excellent solderability

Resistance values from 0.068 ohm to 22 Megohm

Trimmable (RTI series)

Tolerances to 0.5 %

TCR to 50 ppm/°C

ims International Manufacturing Services, Inc.

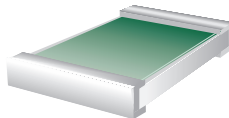
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Thick Film Nickel Barrier Wraparound Surface Mount Chip Resistors

The RXI series of thick film wraparound surface mount chip resistors is ideal for most applications requiring an inexpensive, reliable chip resistor. Thick film technology provides a stable resistor at a very affordable price. The wraparound terminations include a nickel barrier layer which affords excellent solderability and mechanical integrity. These chip resistors have the following features:

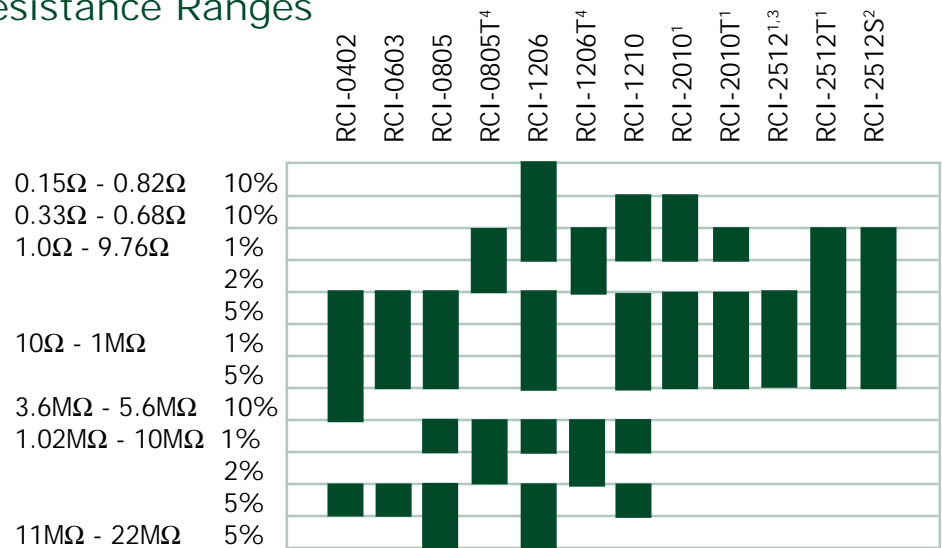
- High stability thick film resistor element
- 96% Al₂O₃ substrate material
- Nickel barrier layer for excellent solderability and mechanical integrity
- Tolerances to ± 0.5%
- Polyimide passivation of resistor element
- Available in bulk or on tape and reel

Terminations

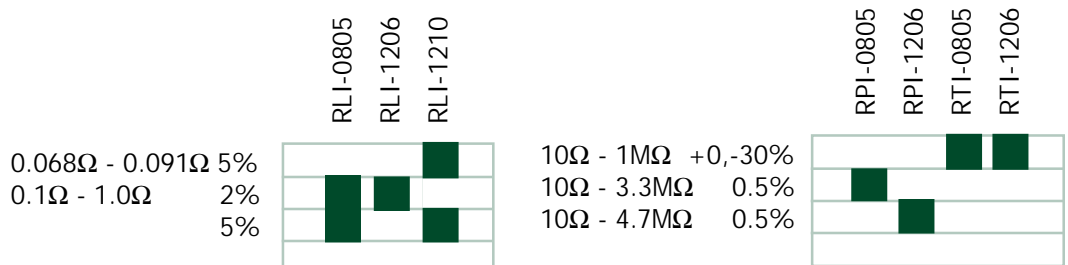


Full wraparound termination
90/10 solder plating over a nickel barrier layer

Resistance Ranges

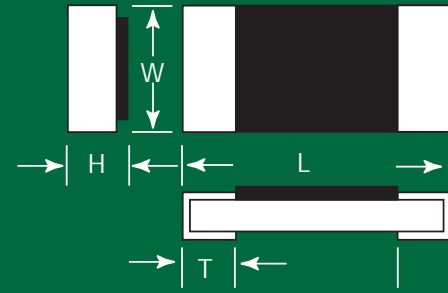


¹Maximum resistance value is 100KΩ ²Maximum resistance value is 100KΩ
³Minimum resistance value is 0.1Ω ± 1% ⁴Maximum resistance value is 5.6MΩ
Jumpers (0 Ω) available in all sizes (RCI-0402,0603 rated at 1 amp. All others rated at 2 amps)



Dimensions

Part Number	Length	Width	Height	Terminal
RCI-0402	0.039 ± .002	0.020 ± .004	0.016 max.	0.010 ± .004
RCI-0603	0.063 ± .006	0.031 ± .006	0.022 max.	0.012 ± .004
RCI-0805	0.079 ± .008	0.049 ± .004	0.026 max.	0.016 ± .008
RLI-0805	0.079 ± .006	0.049 ± .004	0.028 max.	0.016 ± .008
RCI-1206	0.126 ± .008	0.063 ± .006	0.028 max.	0.020 ± .010
RLI-1206	0.122 ± .008	0.063 ± .006	0.028 max.	0.012 ± .008
RLI-1210	0.122 ± .002	0.098 ± .006	0.028 max.	0.012 ± .008
RCI-2010	0.197 ± .008	0.098 ± .008	0.028 max.	0.020 ± .012
RCI-2512(S)	0.248 ± .008	0.126 ± .010	0.028 max.	0.026 ± .010



Characteristics

Operating Temperature	-55°C to +150°C
Short time overload	± (1% + 0.05 Ω) Max.
Terminal strength	± (1% + 0.05 Ω) Max.
Solder Heat Resistance	± (1% + 0.05 Ω) Max.
Solderability	95% minimum coverage
Temperature Cycle	± (1% + 0.05 Ω) Max.
Load Life	10 Ω ≤ R ≤ 1M Ω: ± (3% + 0.01 Ω) R < 10 Ω, R > 1M Ω: ± (5% + 0.1 Ω)

Specifications

Maximum Working Voltage		
0402, 0603		50 VDC
0805		150 VDC
1206, 2010		200 VDC
2512, 2512S		350 VDC
Rated power (70°C)		
0402		63 mW
0603		100 mW
0805 (low ohms)		125 mW
0805		175 mW
1206		250 mW
1210		500 mW
2010		500 mW
2512		1000 mW
2512S		2000 mW

Ordering Information

Example: 100Ω, 5%, 175 mW, 0805 resistor

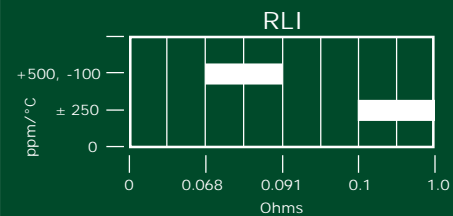
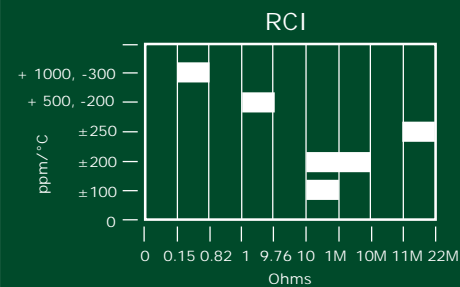
Example: RCI - 0805 - 1000 J	Tolerance
RCI	F - 1%
RLI	J - 5%
RTI	K - 10%
	U - +0, -30%

Form factor
0402 0603
0805(T) 1206(T)
2010(T) 2512(T)
2512S

T indicates custom trim

Resistance value
The first three digits are significant values. The fourth is the number of zeroes following. The R indicates a decimal point for resistance values less than 100Ω.

TCR



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