

0402S 0603S

0805S 1206S

# Super RCX

2010S 2512S

## Thick Film Wraparound Extended Power Surface Mount Chip Resistors for Epoxy and Solder Mount

The *ims* Super (S) RCX series of thick film wraparound surface mount chip resistors is ideal for applications requiring epoxy or solder die attaching methods and extended power handling in a small package. Thick film technology provides a stable resistor at a very affordable price. Special processing allows for **twice** the power handling capacity of other resistors in the same size package. The "X" designation in each series is a variable that allows for specifying the termination metalization. Please see the ordering information on the back for instructions. The wraparound terminations can be platinum silver or platinum silver with solder coating. These chip resistors have the following features:

- **Twice** the power handling capability of other resistors in the same form factor
- High stability thick film resistor element
- 96% Al<sub>2</sub>O<sub>3</sub> substrate material
- Platinum silver (PtAg) or platinum silver with 62/36/2 solder coating
- Tolerances to ± 1%
- Passivated resistor element is standard
- Available in bulk, tape and reel, and waffle pack



### Features

**Twice** the power handling of similar resistors

Thick film technology

Full Wraparound Terminations

Ideal for epoxy attachment. Solder coating also available

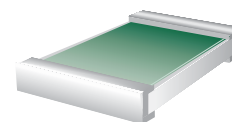
Resistance values from 10 ohm to 1 Megohm

Tolerances to 1 %

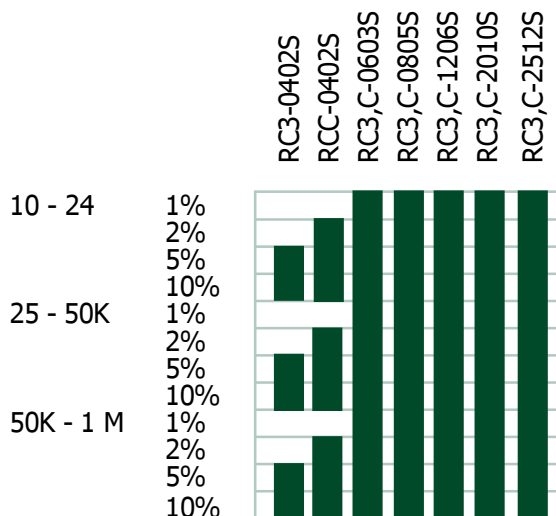
TCR 100 ppm/°C typical

### Termination style

Full wraparound



### Resistance values



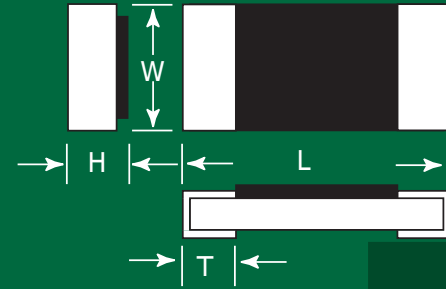
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Consult factory for additional values and tolerances.

## Dimensions

Part Number	Length	Width	Height	Terminal
RCX-0402S	0.040 ± .005	0.020 ± .005	0.020 max.	0.008 ± .004
RCX-0603S	0.060 ± .005	0.030 ± .005	0.020 max.	0.014 ± .006
RCX-0805S	0.080 ± .005	0.050 ± .005	0.020 max.	0.018 ± .008
RCX-1206S	0.126 ± .008	0.063 ± .006	0.020 max.	0.020 ± .010
RCX-2010S	0.197 ± .008	0.106 ± .008	0.028 max.	0.020 ± .012
RCX-2512S	0.248 ± .008	0.126 ± .010	0.028 max.	0.026 ± .010

\*SG (single top contact with wraparound groundplane) terminations available on all sizes as special order. Contact factory for details.



## Specifications

Operating temperature	-55°C to +150°C
Maximum Working Voltage	
RCX-0402S to RCX-0603S	50 VDC
RCX-0805S	150 VDC
RCX-1206S to RCX 2512S	200 VDC
Rated power (70°C)*	
RCX-0402S	160 mW
RCX-0603S	200 mW
RCX-0805S	350 mW
RCX-1206S	500 mW
RCX-2010S	1 W
RCX-2512S	2 W
Resistance tolerances	
RCX-0402S	2%, 5%, 10%
RCX-0603S to RCX-2512S	1%, 2%, 5%, 10%

\*Note 1: Power Ratings based upon free air testing.

Note 2: Power handling can be extended further using proper thermal management techniques.

## Ordering Information

**Example: 100Ω, 5%, 0402, PtAg terminations, 160mW resistor**

RC3 - 0402S-1000 J	
RC	Tolerance F - 1% G - 2% J - 5% K - 10%
3 PtAg C PtAg with 62/36/2 solder coating	Resistance value The first three digits are significant values. The fourth is the number of zeroes following. The R indicates a decimal point when resistance value is less than 100Ω.
Form factor	
0402S      0603S	
0805S      1206S	
2010S      2512S	

**See ANX and APX  
Data Sheets for  
Additional Power  
Handling Options**

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