

0402S 0603S
0805S 1206S
Super
RCX
2010S 2512S



Features

Twice the power handling of similar resistors

Ultra Leach Resistant terminals

Thick film technology

Ideal for epoxy or solder attachment

Resistance range from 10ohm to 1Mohm

Tolerances to $\pm 1\%$

TCR is 100ppm/ $^{\circ}\text{C}$ typ.



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

The ims Super (S) RCX Series of thick film **non-magnetic** wraparound surface mount chip resistors are ideal for most applications requiring extra power density within the same footprint. Special processing allows for **twice** the power handling of other resistors in the same size package. Thick film technology provides a stable resistor at a very affordable price. These resistors are suitable for epoxy or solder die attachment methods. The 'X' designation in each series is a variable that allows for specifying the terminal metallization. Please see ordering information on page two for instructions.

This series features ims' optional **non-magnetic Ultra Leach Resistant** (ULR) type terminals which offer added performance over our standard leach resistant PtAg terminals and have been proven to maintain their integrity in the most extreme solder reflow environments, including high temperatures and multiple reflows. They have been shown to withstand up to 15 minutes in 60/40 solder at 260 $^{\circ}\text{C}$.

These chip resistors have the following features:

- The power handling of other resistors in the same size package
- High stability thick film resistor element
- 96% Al_2O_3 substrate material
- Tolerances to $\pm 1\%$
- Available in bulk, tape and reel and waffle pack

Terminal metallizations

Base Metal

Platinum Silver (PtAg)
ULR Platinum Silver (PtAg)

No Solder Coating PN Prefix

RC3- ✓
RC8- ✓

Sn62 Solder Coating PN Prefix

RCC-
RCH-

Sn96 Solder Coating PN Prefix

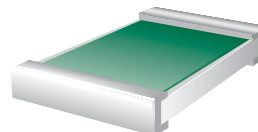
RCP- ✓
RCR- ✓

✓ Indicates RoHS Compliance

Terminal style

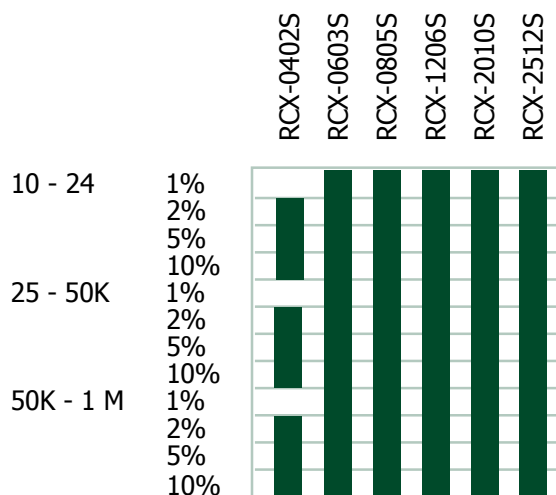


Non-Magnetic



Full wraparound

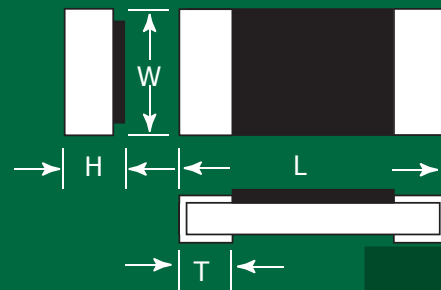
Resistance values



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



Specifications

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

*Power handling can be extended further using proper thermal management.

*Ask Us
About
Engineering
Kits!*

Ordering Information

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

RC3 - 0402S -1000 J		
Terminal Material		
✓ 3 PtAg	Tolerances: F - 1% J - 5% G - 2% K - 10%	
✓ 8 PtAg (Ultra Leach Resistant)		
C PtAg with 62/36/2 tin lead silver solder coating	Resistance Value: The first three digits are significant values. The fourth is the number of zeros following. The R indicates a decimal point when resistance value is less than 100Ω.	
H PtAg with 62/36/2 tin lead silver solder coating (Ultra Leach Resistant)		
✓ P PtAg with 96/4 tin silver solder coating	Size: 0402S 0805S 2010S 0603S 1206S 2512S	
✓ R PtAg with 96/4 tin silver solder coating (Ultra Leach Resistant)		
✓ Indicates RoHS Compliance		

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