

0302 0402  
 0502 0504  
 0603 0805

**RCX**

1005 1206  
 1505 2010  
 2512



### Features

Thick film technology

Full Wraparound and  
 Single Wraparound with  
 Groundplane

Ideal for epoxy  
 attachment. Solder  
 coating also available

Resistance values from  
 1 ohm to 1000 Gighm

Tolerances to 1 %

TCR to 100 ppm/°C

**ims** International  
 Manufacturing  
 Services, Inc.

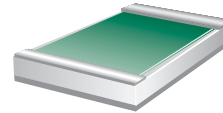
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# Thick Film Wraparound Surface Mount Chip Resistors for Epoxy and Solder Mount

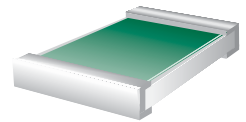
The **ims** RCX, HCX series of thick film wraparound surface mount chip resistors is ideal for most applications requiring epoxy or solder die attaching methods. Thick film technology provides a stable resistor at a very affordable price. The "X" designation in each series is a variable that allows for specifying the termination metalization. Please see the ordering information on the back for instructions. The wraparound terminations use gold, platinum gold, platinum silver, or platinum silver with solder coating. These chip resistors have the following features:

- High stability thick film resistor element
- 96% Al<sub>2</sub>O<sub>3</sub> substrate material
- Platinum silver(PtAg), platinum gold(PtAu), solder coated platinum silver, solder coated platinum gold, or gold(Au) terminations
- Tolerances to ± 1%
- Passivated resistor element available where not standard
- Available in bulk, tape and reel, and waffle pack

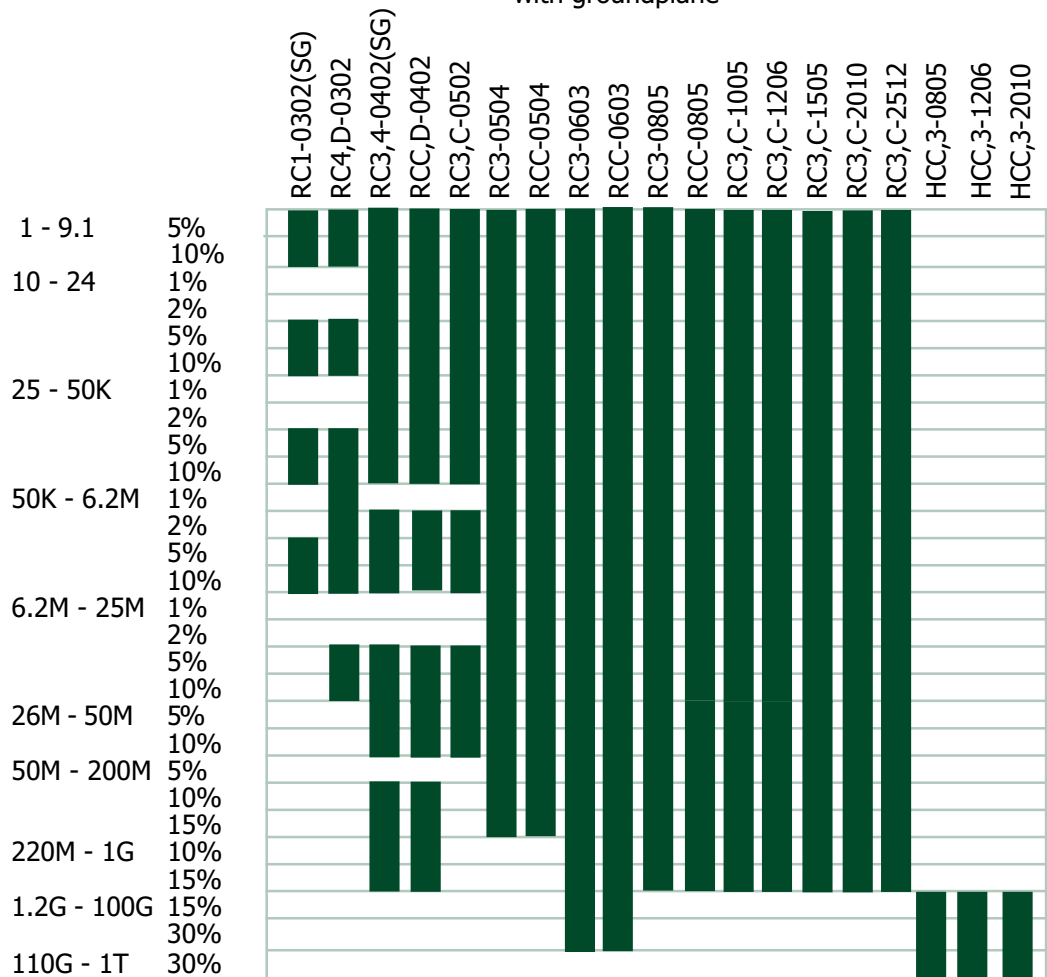
### Termination styles



SG - Single wrap  
 with groundplane



Full wraparound



Consult factory for additional values, sizes and tolerances.

## Dimensions (inches)

Part Number	Length	Width	Height	Terminal
RC1-0302SG*	0.030 $\pm$ $\begin{smallmatrix} +.004 \\ -.002 \end{smallmatrix}$	0.020 $\pm$ .003	0.020 max.	0.009 $\pm$ .003
RC4,D-0302	0.030 $\pm$ .005	0.020 $\pm$ .003	0.020 max.	0.008 $\pm$ .005
RC3,C-0402	0.040 $\pm$ .005	0.020 $\pm$ .005	0.020 max.	0.008 $\pm$ .004
RCX-0502	0.050 $\pm$ .005	0.020 $\pm$ .005	0.020 max.	0.014 $\pm$ .005
RCX-0504	0.050 $\pm$ .005	0.040 $\pm$ .005	0.020 max.	0.015 $\pm$ .006
RCX-0603	0.060 $\pm$ .005	0.030 $\pm$ .005	0.020 max.	0.014 $\pm$ .006
RCX,HCX-0805	0.080 $\pm$ .005	0.050 $\pm$ .005	0.020 max.	0.018 $\pm$ .008
RCX-1005	0.100 $\pm$ $\begin{smallmatrix} +.010 \\ -.005 \end{smallmatrix}$	0.050 $\pm$ .005	0.020 max.	0.015 $\pm$ .005
RCX,HCX-1206	0.126 $\pm$ .008	0.063 $\pm$ .006	0.020 max.	0.020 $\pm$ .010
RCX-1505	0.150 $\pm$ $\begin{smallmatrix} +.010 \\ -.005 \end{smallmatrix}$	0.050 $\pm$ .005	0.020 max.	0.016 $\pm$ .006
RCX-2010	0.197 $\pm$ .008	0.106 $\pm$ .008	0.028 max.	0.020 $\pm$ .012
RCX-2512	0.248 $\pm$ .008	0.126 $\pm$ .010	0.028 max.	0.026 $\pm$ .010

\*SG terminations available on all sizes as special order. Contact factory for details.

## Specifications

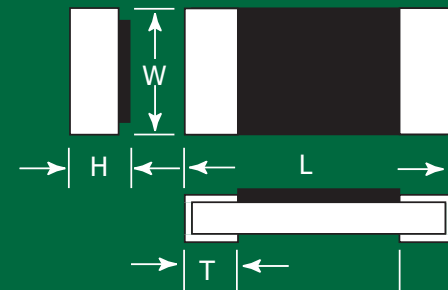
Operating temperature	-55°C to +150°C
Maximum Working Voltage	
RCX-0302 to RCX-0603	50 VDC
RCX-0805	150 VDC
Rated power (70°C)	
RCX-0302	63 mW
RC3,C-0402	80 mW
RCX-0504	125 mW
RCX-0502, 0603	100 mW
RCX-0805	175 mW
RCX-1206, 1005, 1505	250 mW
RCX-2010	500 mW
RCX-2512	1 W
Resistance tolerances*	
RCX-0302, 0402	5%, 10%
RCX-0502 to RCX-2512	1%, 2%, 5%, 10%, 15%, 30%

\* Not all values available in all tolerances.

## Ordering Information

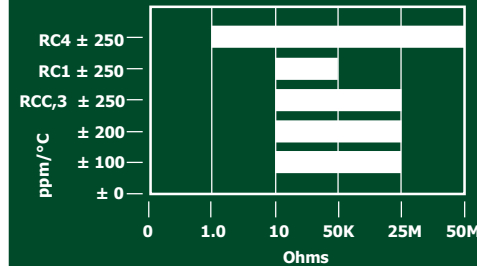
**Example: 100Ω, 5%, 0504, PtAg terminations, 125mW resistor**

<b>RC3 - 0504 -1000 J</b>			
RC= Trimmed			Tolerance
RT= Untrimmed			F - 1% G - 2%
			J - 5% K - 10%
			L - 15% N - 30%
1 Au	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.		
3 PtAg			
4 Pt Au (0302(SG) and 0402(SG) only)			
C PtAg with 62/36/2 tin lead silver solder coating			
D PtAu with 62/36/2 solder coating (0302(SG) and 0402(SG) only)			
P PtAg with 96/4 tin silver solder coating			
Form factor			
0302(SG) 0402(SG) 0502 0504			
0603 0805 1005 1206			
1505 2010 2512			

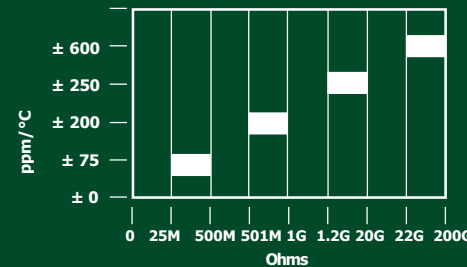


## TCR (typical)

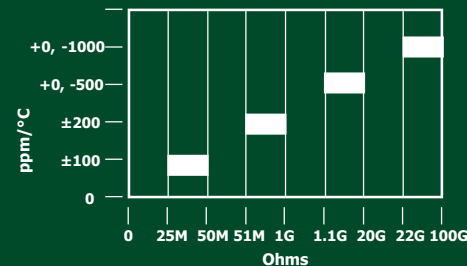
RCX Standard Values



RCX, HCX 0805 Series High Megohm and Gigohm



RCX 0603 High Megohm



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