

0302 0402
0502 0504
0603 0805
RCX
1005 1206
1505 2010
2512



Features

Ultra Leach Resistant
Terminals

Thick film technology

Full Wraparound and
Single Wraparound with
Groundplane

Ideal for epoxy
or solder attachment.

Resistance values from
1 ohm to 1000 Gigohm

Tolerances to 1 %

TCR to 100 ppm/°C

ims International
Manufacturing
Services, Inc.
50 Schoolhouse Lane
Portsmouth, RI 02871
Tel (401) 683-9700
Fax (401) 683-5571
e-mail: ims@ims-resistors.com
<http://www.ims-resistors.com>

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

The ims RCX, HCX Series of thick film **non-magnetic** wraparound surface mount chip resistors are ideal for most applications requiring epoxy or solder die attachment 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 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°C.

These chip resistors have the following features:

- High stability thick film resistor element
- 96% Al₂O₃ substrate material
- Tolerances to ±1%
- Available in bulk, tape and reel and waffle pack
- Jumpers available (use value code JUMPR in part number)



Non-Magnetic

Terminal metallizations

Base Metal

Platinum Silver (PtAg)
ULR Platinum Silver (PtAg)
Platinum Gold (PtAu)
Gold (Au)

No Finish Metal

PN Prefix

RC3- ✓
RC8- ✓
RC4- ✓
RC1- ✓

Sn62 Solder Coat

PN Prefix

RCC-
RCH-
RCD-
N/A

Sn96 Solder Coat

PN Prefix

RCP- ✓
RCR- ✓
RCQ- ✓
N/A

Gold Finish

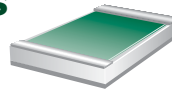
PN Prefix

N/A
N/A
RC7- ✓
N/A

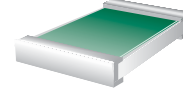


Indicates RoHS Compliance

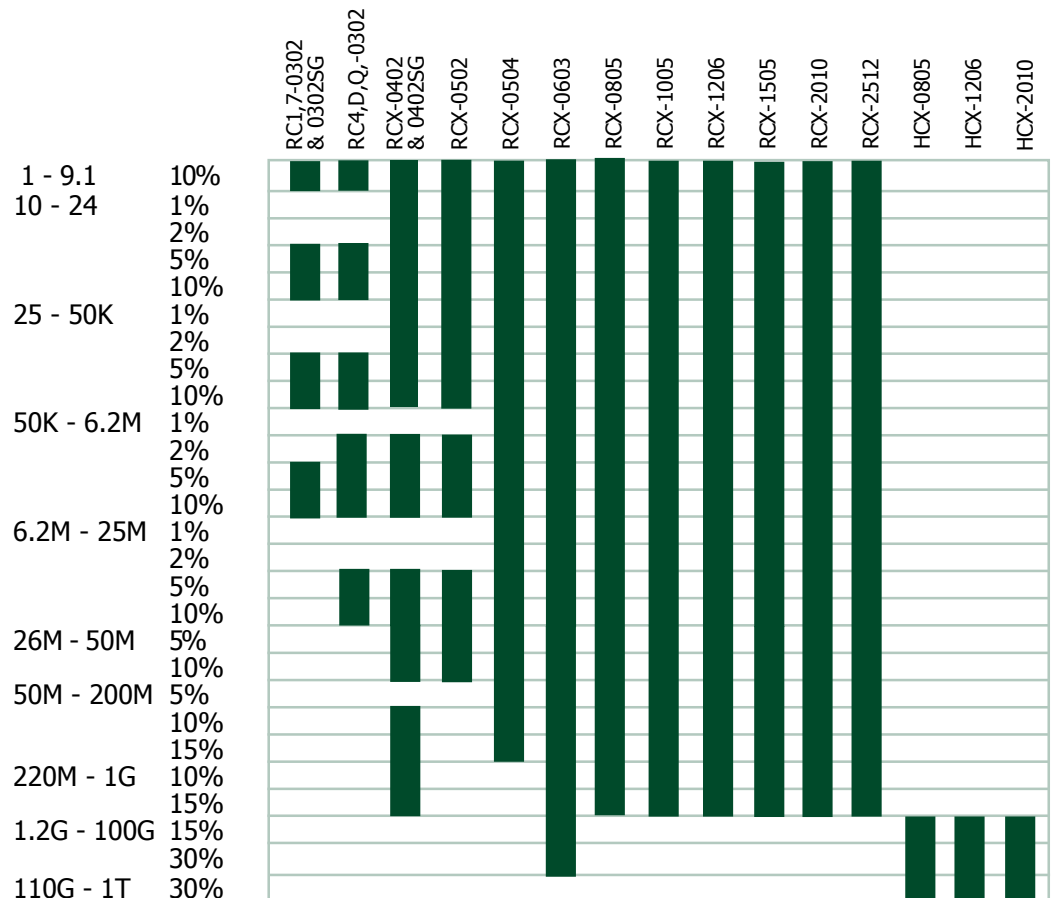
Terminal styles



SG - Single wrap w/ groundplane



Full wraparound



Consult factory for additional values, sizes and tolerances.

Dimensions (inches)

Part Number	Length	Width	Height	Terminal
RC1,7-0302SG*	0.030 ^{+0.004} / _{-0.002}	0.020 ± .003	0.020 max.	0.009 ± .003
RC4,D, Q-0302	0.030 ± .005	0.020 ± .003	0.020 max.	0.008 ± .005
RCX-0402 (exc. 'SG')	0.040 ± .005	0.020 ± .005	0.020 max.	0.008 ± .004
RC1,4, Q-0402SG*	0.045 ± .005	0.025 ± .005	0.020 max.	0.008 ± .004
RCX-0502	0.050 ± .005	0.020 ± .005	0.020 max.	0.014 ± .005
RCX-0504	0.050 ± .005	0.040 ± .005	0.020 max.	0.015 ± .006
RCX-0603	0.060 ± .005	0.030 ± .005	0.020 max.	0.014 ± .006
RCX, HCX-0805	0.080 ± .005	0.050 ± .005	0.020 max.	0.018 ± .008
RCX-1005	0.100 ^{+0.010} / _{-0.005}	0.050 ± .005	0.020 max.	0.015 ± .005
RCX, HCX-1206	0.126 ± .008	0.063 ± .006	0.020 max.	0.020 ± .010
RCX-1505	0.150 ^{+0.010} / _{-0.005}	0.050 ± .005	0.020 max.	0.016 ± .006
RCX-2010	0.197 ± .008	0.106 ± .008	0.028 max.	0.020 ± .012
RCX-2512	0.248 ± .008	0.126 ± .010	0.028 max.	0.026 ± .010

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

Specifications

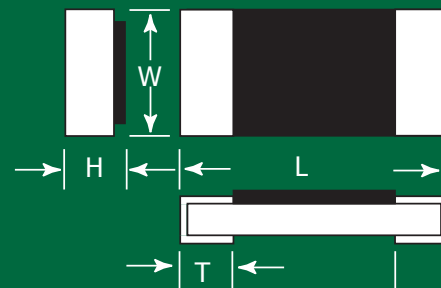
Operating Temperature	-55°C to 150°C
Maximum Working Voltage	
RCX-0302 to RCX-0603	50VDC
RCX-0805	150VDC
Rated Power (70°C Free Air)	
RCX-0302	63mW
RCX-0402 (exc. 'SG')	80mW
RCX-0402SG	125mW
RCX-0504	125mW
RCX-0502, 0603	100mW
RCX-0805	175mW
RCX-1206, 1005, 1505	250mW
RCX-2010	500mW
RCX-2512	1W
Resistance Tolerances*	
RCX-0302, 0402	5%, 10%
RCX-0502 to RCX-2512	1%, 2%, 5%, 10%, 15%, 20%, 30%, 40%, 50%

* Not all values available in all tolerances.

Ordering Information

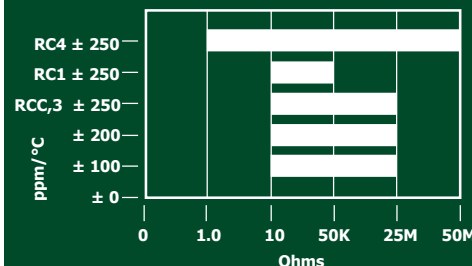
Example: 100Ω, 5%, 0504, PtAg terminals, 125mW resistor

RC3 - 0504 -1000 J			
RC= Trimmed RT= Untrimmed		Tolerances:	
✓ 1 Au	Terminal Material	F - 1%	M - 20%
✓ 3 PtAg		G - 2%	N - 30%
✓ 4 PtAu†		J - 5%	P - 40%
✓ 7 PtAu on wrap terminal (GND side), Au over PtAu on input terminal°		K - 10%	R - 50%
✓ 8 PtAg (Ultra Leach Resistant)		L - 15%	
C PtAg with 62/36/2 tin lead silver solder coating		Resistance Value:	
H PtAg with 62/36/2 tin lead silver solder coating (Ultra Leach Resistant)		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. For a jumper use code JUMPR.	
D PtAu with 62/36/2 solder coating†		Size:	
✓ P PtAg with 96/4 tin silver solder coating		0302 (SG)	0504 1005 2010
✓ R PtAg with 96/4 tin silver solder coating (Ultra Leach Resistant)		0402 (SG)	0603 1206 2512
✓ Q PtAu with 96/4 tin silver solder coating†		0502	0805 1505
		✓ Indicates RoHS Compliance	
		† 0302(SG) and 0402(SG) only	
		° 0302 only	

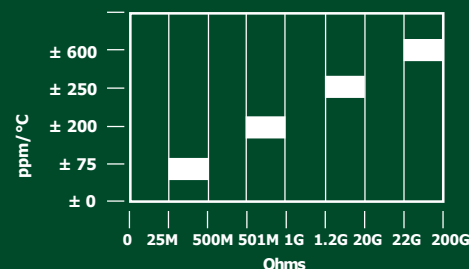


TCR (typical)

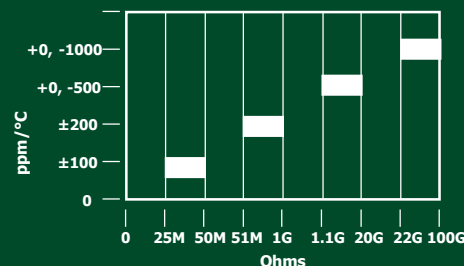
RCX Standard Values



RCX, HCX 0805 Series High Megohm and Gigohm



RCX 0603 High Megohm



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www.ims-
resistors.com](http://www.ims-resistors.com)

ims International
Manufacturing
Services, Inc.
50 Schoolhouse Lane
Portsmouth, RI 02871
Tel (401) 683-9700
Fax (401) 683-5571
e-mail: ims@ims-resistors.com
<http://www.ims-resistors.com>