

RCX & HCX Series

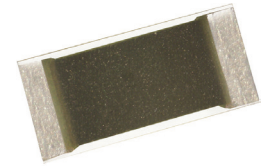


0302 0402 0502 0504 0603 0805 1005 1206 1505 2010 2512

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

Features

- Thick film technology
- Full Wraparound and Single Wraparound with Groundplane
- Ideal for epoxy or solder attachment
- Ultra Leach Resistant Terminals
- 96% Al₂O₃ substrate material
- Resistance values from 1 ohm to 1000 Gigohm
- Tolerances to ±1 %
- TCR to 100 ppm/°C
- Jumpers available (use value code JUMPR in part number)
- Available in bulk, tape and reel and waffle pack



Thick Film

Part Number	Length	Width	Height	Terminal	Max Voltage	Rated Power @ 70°C
RC1,7-0302SG*	0.030 ^{+0.004} / _{-0.002}	0.020 ± .003	0.020 max.	0.009 ± .003	50VDC	63mW
RC4,D, Q-0302	0.030 ± .005	0.020 ± .003	0.020 max.	0.008 ± .005	50VDC	
RCX-0402 (exc. 'SG')	0.040 ± .005	0.020 ± .005	0.020 max.	0.008 ± .004	50VDC	80mW
RC1,4, Q-0402SG*	0.045 ± .005	0.025 ± .005	0.020 max.	0.008 ± .004	50VDC	125mW
RCX-0502	0.050 ± .005	0.020 ± .005	0.020 max.	0.014 ± .005	50VDC	100mW
RCX-0504	0.050 ± .005	0.040 ± .005	0.020 max.	0.015 ± .006	50VDC	125mW
RCX-0603	0.060 ± .005	0.030 ± .005	0.020 max.	0.014 ± .006	50VDC	100mW
RCX, HCX-0805	0.080 ± .005	0.050 ± .005	0.020 max.	0.018 ± .008	150VDC	175mW
RCX-1005	0.100 ^{+0.010} / _{-0.005}	0.050 ± .005	0.020 max.	0.015 ± .005		250mW
RCX, HCX-1206	0.126 ± .008	0.063 ± .006	0.020 max.	0.020 ± .010		250mW
RCX-1505	0.150 ^{+0.010} / _{-0.005}	0.050 ± .005	0.020 max.	0.016 ± .006		250mW
RCX, HCX-2010	0.197 ± .008	0.106 ± .008	0.028 max.	0.020 ± .012		500mW
RCX-2512	0.248 ± .008	0.126 ± .010	0.028 max.	0.026 ± .010		1W

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

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

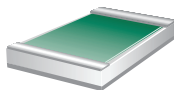
PN Prefix
RCP- ✓
RCR- ✓
RCQ- ✓
N/A

Gold Finish

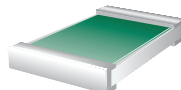
PN Prefix
N/A
N/A
RC7- ✓
N/A

✓ Indicates RoHS Compliance

Terminal Styles



SG - Single wrap w/ groundplane



Full wraparound

Item	Specification
Operating Temperature	-55°C to 150°C
Resistance Tolerances*	
RCX-0302, 0402	5%, 10%
RCX-0502 to RCX-2512	1%, 2%, 5%, 10%, 15%,
HCX-0805 to HCX-2010	20%, 30%, 40%, 50%

* Not all values available in all tolerances.

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Ordering Information

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

RC 3 - 0504 -1000 J

RC= Trimmed
RT= Untrimmed

Terminal Material

- ✓ 1 Au
- ✓ 3 PtAg
- ✓ 4 PtAu†
- ✓ 7 PtAu on wrap terminal (GND side), Au over PtAu on input terminal°
- ✓ 8 PtAg (Ultra Leach Resistant)
- C PtAg with 62/36/2 tin lead silver solder coating
- D PtAu with 62/36/2 solder coating†
- H PtAg with 62/36/2 tin lead silver solder coating (Ultra Leach Resistant)
- ✓ P PtAg with 96/4 tin silver solder coating
- ✓ R PtAg with 96/4 tin silver solder coating (Ultra Leach Resistant)
- ✓ Q PtAu with 96/4 tin silver solder coating†

Tolerances

F - 1%	M - 20%
G - 2%	N - 30%
J - 5%	P - 40%
K - 10%	R - 50%
L - 15%	

Resistance Value

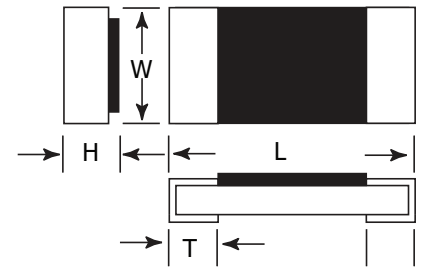
The first three digits are significant values. The fourth is the number of zeroes following. The R indicates a decimal point when resistance value is less than 100Ω. For a jumper use code JUMPR.

Size

0302 (SG)	0504	1005	2010
0402 (SG)	0603	1206	2512
0502	0805	1505	

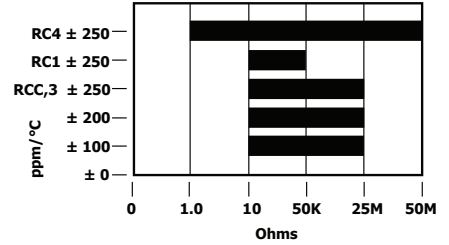
† 0302(SG) and 0402(SG) only
° 0302 only

✓ Indicates RoHS Compliance

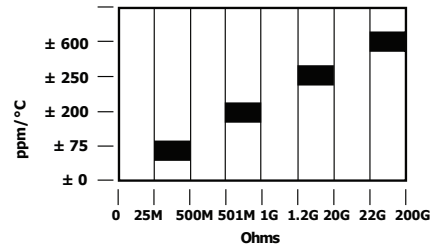


TCR (typical)

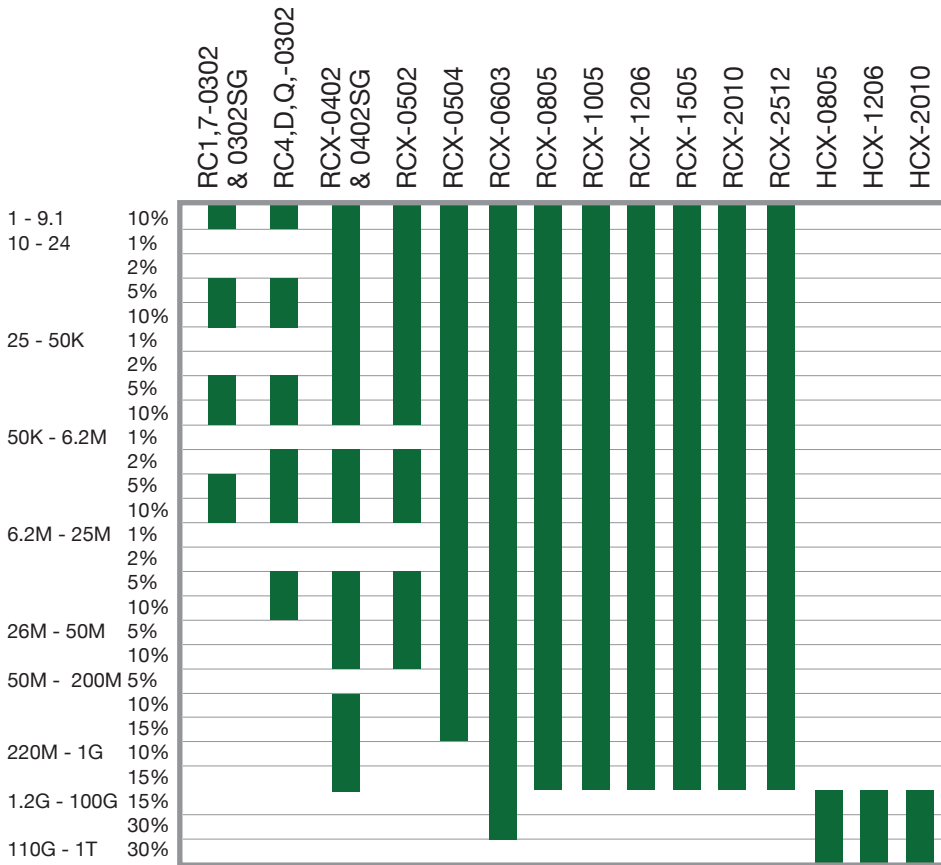
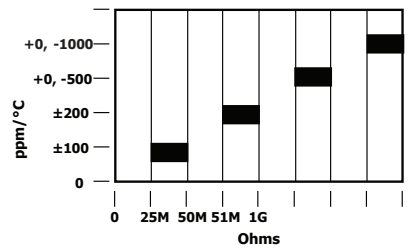
RCX Standard Values



RCX, HCX 0805 Series High Megohm and Gighm



RCX 0603 High Megohm



Consult factory for additional values, sizes and tolerances.

