

RCX Partial Wraparound

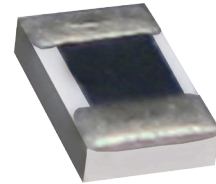
ims

0302PW 0402PW 0502PW 0603PW 0805PW

Partial Wraparound Thick Film Chip Resistors for High Frequency Applications

Features

- Stable resistance over frequency
- 96% Al₂O₃ substrate material
- Tolerances to ±1%
- Resistance values from 10Ω to 2KΩ
- TCR to ± 100PPM/°C
- Operating Temp. -55 to 150°C
- Available in bulk or tape and reel



 **Non-Magnetic**

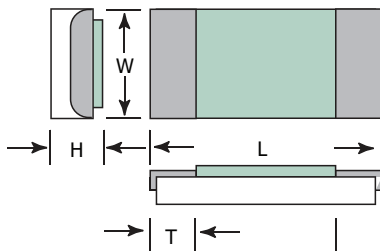
Thick Film

| Part Number | Length | Width | Height | Terminal | Max Working Volts | Rated Power @ 70°C | Tolerance | Frequency Range** |
|-------------|--------------|--------------|------------|------------|-------------------|--------------------|-------------|-------------------|
| RCX-0302PW | 0.030 ± .005 | 0.020 ± .003 | 0.020 max. | 0.004 min. | 50VDC | 63 mW | ±5% | ≤ 40 GHz |
| RCX-0402PW | 0.040 ± .005 | 0.020 ± .005 | 0.020 max. | 0.005 min. | 50VDC | 80 mW | ±5%, 2%, 1% | ≤ 36 GHz |
| RCX-0502PW | 0.050 ± .005 | 0.020 ± .005 | 0.020 max. | 0.009 min. | 50VDC | 100 mW | ±5%, 2%, 1% | ≤ 26.5 GHz |
| RCX-0603PW | 0.060 ± .005 | 0.030 ± .005 | 0.020 max. | 0.009 min. | 50VDC | 100 mW | ±5%, 2%, 1% | ≤ 15 GHz |
| RCX-0805PW | 0.080 ± .005 | 0.050 ± .005 | 0.020 max. | 0.015 min. | 150VDC | 175 mW | ±5%, 2%, 1% | ≤ 8 GHz |

* Other values available. Please contact factory.

** Frequency range in an impedance matched system.

Dimensional Outline



Ordering Information

Example: 100Ω, 5%, 100mW, 0502 partial wrap resistor

RC3 - 0502PW -1000 J

Terminal Material

- 3 PtAg
- 4 PtAu†
- 8 PtAg (**Ultra Leach Resistant**)
- C PtAg with 62/36/2 tin lead silver solder coating
- H PtAg with 62/36/2 tin lead silver solder coating (**Ultra Leach Resistant**)
- D PtAu with 62/36/2 solder coating†
- 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%
- G - 2%
- J - 5%

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

0302PW 0502PW 0805PW
0402PW 0603PW

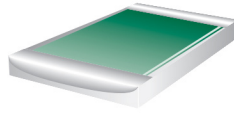
- Indicates RoHS Compliance
- † only metallization available in 0302 PW

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Terminal Style

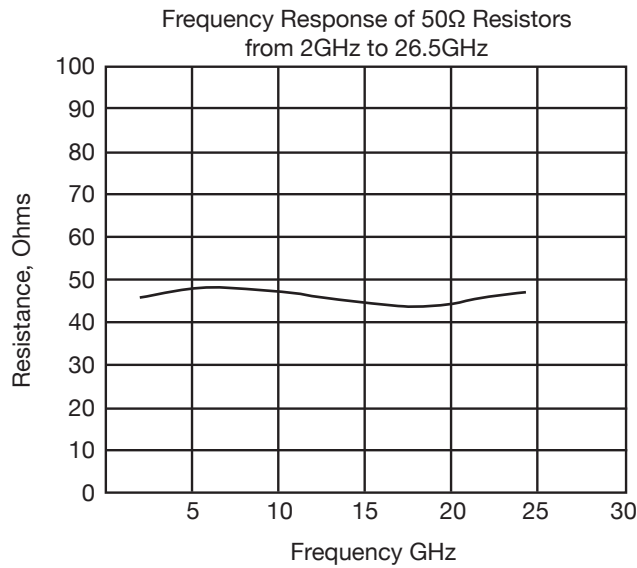


Terminal Metallizations

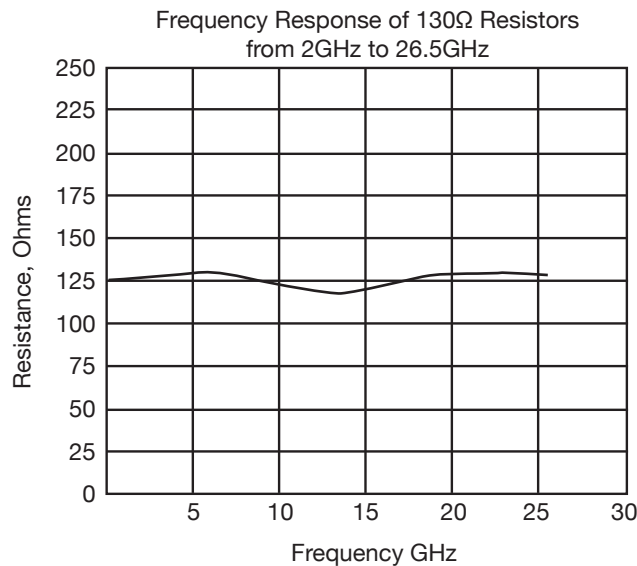
| Base Metal | No Finish Metal PN Prefix | Sn62 Solder Coat PN Prefix | Sn96 Solder Coat PN Prefix |
|----------------------------|--|-------------------------------|--|
| Platinum Silver (PtAg) | RC3- <input checked="" type="checkbox"/> | RCC- | RCP- <input checked="" type="checkbox"/> |
| ULR Platinum Silver (PtAg) | RC8- <input checked="" type="checkbox"/> | RCH- | RCR- <input checked="" type="checkbox"/> |
| Platinum Gold (PtAu) | RC4- <input checked="" type="checkbox"/> | RCD- | RCQ- <input checked="" type="checkbox"/> |

Indicates RoHS Compliance

Two frequency response curves of the RCC-0502PW are shown here to illustrate the flatness of the response of **ims'** RCX Partial Wrap resistors. S-Parameters of all RCX PW sizes can be found on the **ims** website. Measurements were taken of 50Ω and 130Ω resistors within a span of 2GHz to 26.5GHz.



The response does not change appreciably at different resistance values. Similar response can be expected from other size resistors within the RCX PW Series and within the resistance range for the respective size.



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