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 2KΩ¹
- TCR to ± 100PPM/°C
- Operating Temp. -55 to 150°C

1. Other values available. Please contact factory.

### TERMINATIONS

**Base Metal**

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

**Terminal Metallizations**

<table>
<thead>
<tr>
<th>Base Metal</th>
<th>No Solder Applied (PN Prefix)</th>
<th>Sn62 Solder Coat (PN Prefix)</th>
<th>Sn96 Solder Coat (PN Prefix)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platinum Silver (PtAg)</td>
<td>RC3-</td>
<td>RCC-</td>
<td>RCP-</td>
</tr>
<tr>
<td>ULR Platinum Silver (PtAg)</td>
<td>RC8-</td>
<td>RCH-</td>
<td>RCR-</td>
</tr>
<tr>
<td>Platinum Gold (PtAu)</td>
<td>RC4-</td>
<td>RCD-</td>
<td>RCQ-</td>
</tr>
</tbody>
</table>

RoHS Compliant = ☑

2. Frequency range in an impedance matched system. ☑ Modelithics simulated part (RC3 - 0402 & RC4 - 0302)

### ORDERING INFORMATION

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

**Termination Material**

- ☑ 3 PtAg
- ☑ 4 PtAu³
- ☑ 8 PtAg ULR
  - C PtAg w/ Sn62 Solder
  - D PtAu w/ Sn62 Solder³
  - H PtAg w/ Sn96 Solder ULR
- ☑ P PtAg w/ Sn96 Solder
- ☑ Q PtAu w/ Sn96 Solder³
- ☑ R PtAg w/ Sn96 Solder ULR

**Part**

- ☑ 0302PW
- ☑ 0402PW
- ☑ 0502PW
- ☑ 0603PW
- ☑ 0805PW

**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 jumper use code JUMPR.

**TERMINATION MATERIAL**

- ☑ 3 PtAg
- ☑ 4 PtAu³
- ☑ 8 PtAg ULR
  - C PtAg w/ Sn62 Solder
  - D PtAu w/ Sn62 Solder³
  - H PtAg w/ Sn96 Solder ULR
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- ☑ Q PtAu w/ Sn96 Solder³
- ☑ R PtAg w/ Sn96 Solder ULR

**Part**

- ☑ 0302PW
- ☑ 0402PW
- ☑ 0502PW
- ☑ 0603PW

FREE TRIAL

Evaluate IMS parts through Modelithics measurement-based simulation models. For 90-day FREE trial visit:

www.modelithics.com/mvp/ims

Modelithics simulated part (RC3 - 0402 & RC4 - 0302)

ULR = Ultra Leach Resistant

### TERMINATION STYLES

- PW - Partial Wraparound

RoHS Compliant = ☑

Modelithics simulated part (RC3 - 0402 & RC4 - 0302)

Specifications subject to change without notice. | AS9100D - ISO9001:2015

International Manufacturing Services, Inc.
(401) 683-9700 | www.ims-resistors.com
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.