# RCX Partial Wraparound

0302PW 0402PW 0502PW 0603PW 0805PW

Partial Wraparound Thick Film Chip Resistors for High Frequency Applications











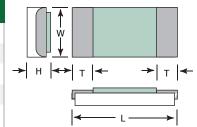
### **FEATURES**

- Stable resistance over frequency
- 96% Al<sub>2</sub>O<sub>3</sub> substrate material

1. Other values available. Please contact factory.

- Tolerances to ±1%
- Resistance values from 10Ω to 2KΩ¹
- TCR to ± 100PPM/°C
- Operating Temp. -55 to 150°C

	Part	Length	Width	Height (max)	Terminal (min)	WVDC (max)	Rated Power @ 70°c	Tolerance (%)	Frequency Range <sup>2</sup>
•	RCX-0302PW	0.030 ± .005	0.020 ± .003	0.020	0.004	50	63 mW	5	≤ 40 GHz
•	RCX-0402PW	0.040 ± .005	0.020 ± .005	0.020	0.005	50	80 mW	1, 2, 5	≤ 36 GHz
	RCX-0502PW	$0.050 \pm .005$	$0.020 \pm .005$	0.020	0.009	50	100 mW	1, 2, 5	≤ 26.5 GHz
	RCX-0603PW	0.060 ± .005	0.030 ± .005	0.020	0.009	50	100 mW	1, 2, 5	≤ 15 GHz
	RCX-0805PW	0.080 ± .005	0.050 ± .005	0.020	0.009	150	175 mW	1, 2, 5	≤8GHz



#### **TERMINATIONS**

#### **Terminal Metallizations**

Base Metal	No Solder Applied (PN Prefix)	Sn62 Solder Coat (PN Prefix)	Sn96 Solder Coat (PN Prefix)	
Platinum Silver (PtAg)	RC3- 🗹	RCC-	RCP- 🗹	
ULR Platinum Silver (PtAg)	RC8- 🗹	RCH-	RCR- 🗹	
Platinum Gold (PtAu)	RC4- 🗹	RCD-	RCQ- <b>☑</b>	

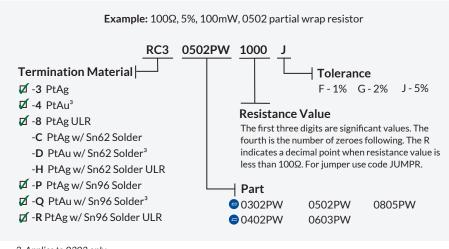
RoHS Compliant = 🇹

#### Terminal Styles



PW - Partial Wraparound

### ORDERING INFORMATION





#### FREE TRIAL

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

www.modelithics.com/mvp/ims

Packaging: B=Bulk, T=Tape and Reel ULR = Ultra Leach Resistant







RoHS Sn62 NON-MAG KIT

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

<sup>2.</sup> Frequency range in an impedance matched system. 

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

## CX Partial Wraparound

0302PW 0402PW 0502PW 0603PW 0805PW Partial Wraparound Thick Film Chip Resistors for High Frequency Applications

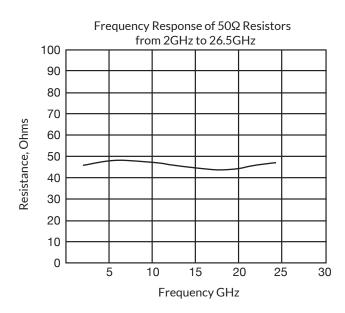


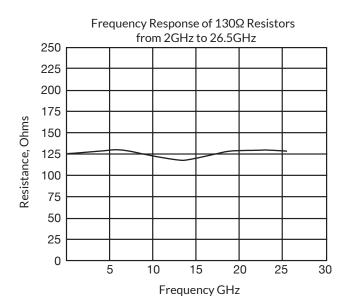






## FREQUENCY RESPONSE





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  $50\Omega$  and  $130\Omega$  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.