

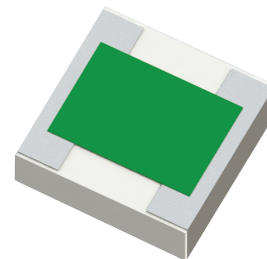
### RP0505ZZ-XXXXWN-YY Features:

- Wraparound Terminal Configuration
- Tape and Reel and Waffle Pack Available (Standard is bulk)
- Customer Defined Testing Available

### RP0505ZZ-XXXXWN-YY Parameters:

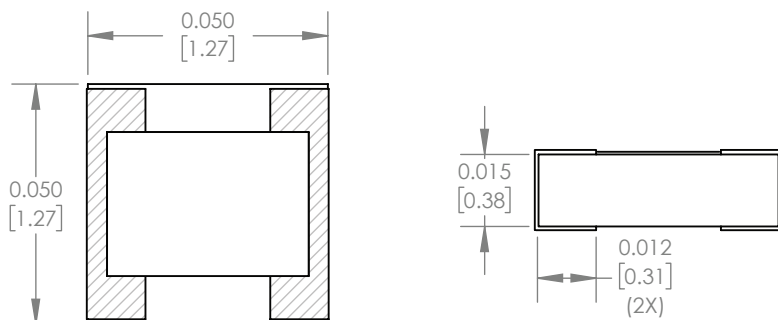
Resistance Range:	0.5Ω - 1MΩ
Rated Power:*	
0.015" Al <sub>2</sub> O <sub>3</sub>	250mW
0.015" BeO	750mW
Operating Temperature:	-55 to +150°C

\* Rating based on ≤100°C constant baseplate temperature

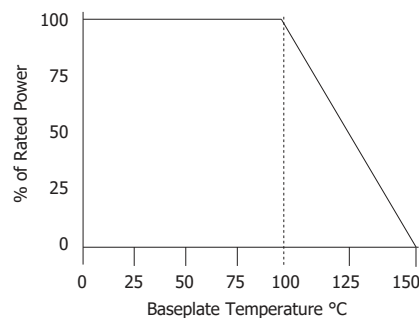


■ Actual Size

### RP0505ZZ-XXXXWN-YY Dimensions:



### RP0505ZZ-XXXXWN-YY Power Derating Curve



Dimensions in inches [mm]  
Tolerance is ± 0.005 [0.127] unless otherwise stated

### Ordering Information:

### Example Part Number: RP0505CT-50R0JN-91

RP	0505	ZZ	-	XXXX	W	N	-	YY	UU
Prefix for Wraparound Resistor				Value Code	Tolerance	Normal Inspection Contact factory for additional options		Substrate	Packaging
Size				50R0 - 50Ω	F - 1%			91 - 0.015" Al <sub>2</sub> O <sub>3</sub>	Blank - Bulk
				1000 - 100Ω	G - 2%			96 - 0.015" BeO	TR - Tape & Reel
				1001 - 1KΩ	J - 5%				WP - Waffle Pack
				1002 - 10KΩ					
				1003 - 100KΩ					
				1004 - 1MΩ					

#### Terminal Metallization

AS -	SnPb over Platinum Palladium Gold
BA -	Palladium Silver (Al <sub>2</sub> O <sub>3</sub> Only)
CB -	Tin Lead over Nickel over Silver
CT -	100% Matte Tin over Nickel over Silver
JA -	Gold over Platinum Palladium Gold (BeO Only)
GA -	Gold (Al <sub>2</sub> O <sub>3</sub> Only)

RoHS	Magnetic	Solder	Epoxy	Wirebond
No	No	Yes	No	No
Yes	No	No	Yes	No
No	Yes	Yes	No	No
Yes	Yes	Yes	No	No
Yes	No	No	Yes	Yes
Yes	No	No	Yes	Yes

Barry Industries reserves the right to change part number and/or process without notification.

## RP0505ZZ-XXXXWN-YY Reliability Specifications:

Parameter:	Test Condition:	Results:
Short Time Overload	Apply 1.1x Rated Power for 5 Seconds.	≤ 5.0% Resistance Shift
Rated Load Life	Apply 1/2 Power Under 40°C ±2°C 90 Minutes on/ 30 Minutes off. Repeat for 100 hours	≤ 5.0% Resistance Shift
Moisture Resistance	MIL-PRF-55342 para 4.8.9 95% RH, 25°C - 65°C	≤ 5.0% Resistance Shift
Resistance to Soldering Heat	MIL-STD-202 Method 210 and MIL-PRF-55342 Para 4.8.8.1	≤ 5.0% Resistance Shift
Resistance to Bonding Exposure	MIL-PRF-55342 Para 4.8.8.2	≤ 5.0% Resistance Shift
Solderability	MIL-PRF-55342 Para 4.8.12	>95% Covered
High Temperature Storage	125°C ±2°C for 500 Hours	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)
Thermal Shock	-65 to +125 30 Minutes Dwell, 5 Cycles	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)

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