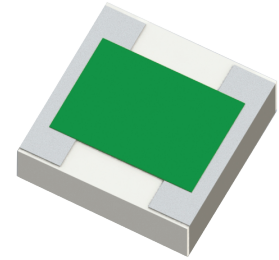


RP0505ZZ-XXXXWN-YY Features:

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



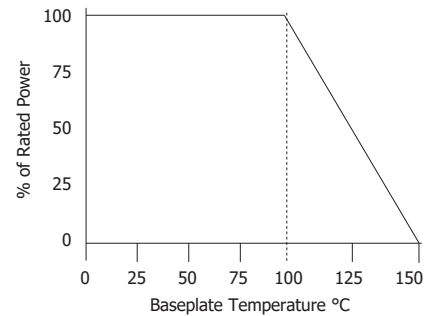
■ Actual Size

RP0505ZZ-XXXXWN-YY Parameters:

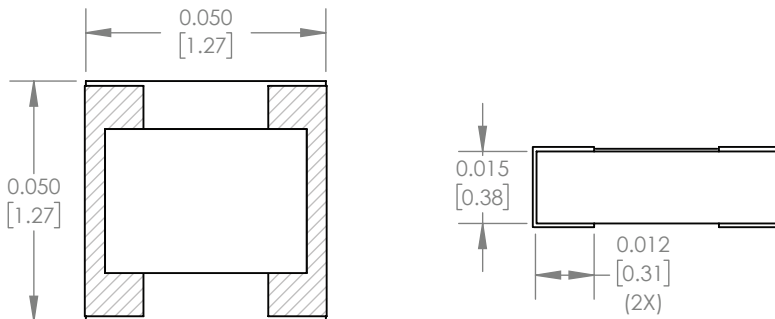
Resistance Range (Al ₂ O ₃ & BeO):	0.5Ω - 1MΩ
Resistance Range (AlN):	10Ω - 1KΩ
Rated Power:*	
0.015" Al ₂ O ₃	250mW
0.015" AlN	2.5W
0.015" BeO	3.0W
Operating Temperature:	-55 to +150°C

* Rating based on ≤100°C constant baseplate temperature

RP0505ZZ-XXXXWN-YY Power Derating Curve



RP0505ZZ-XXXXWN-YY Dimensions:



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	Size	Value Code		Tolerance	Normal Inspection	Substrate		Packaging	
	0505	50R0 - 50Ω 1000 - 100Ω 1001 - 1KΩ		1002 - 10KΩ** 1003 - 100KΩ** 1004 - 1MΩ**	F - 1% G - 2% J - 5%	91 - 0.015" Al ₂ O ₃ 2Q - 0.015" AlN 96 - 0.015" BeO		Blank - Bulk TR - Tape & Reel WP - Waffle Pack	

Terminal Metallization

AS -	SnPb over Platinum Palladium Gold
BA -	Palladium Silver (Al ₂ O ₃ & AlN 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 ₂ O ₃ Only)

	RoHS	Magnetic	Solder	Epoxy	Wirebond
AS	No	No	Yes	No	No
BA	Yes	No	No	Yes	No
CB	No	Yes	Yes	No	No
CT	Yes	Yes	Yes	No	No
JA	Yes	No	No	Yes	Yes
GA	Yes	No	No	Yes	Yes

** Not available on AlN

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)

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