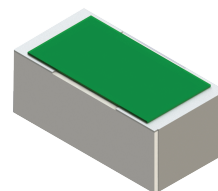


RP0402ZZ-XXXXWN-91 Features:

- Wraparound Terminals
- Solder, Epoxy or Wirebond Attachment
- Customer Defined Testing Available
- RoHS Compliant or SnPb Available
- Tape & Reel or Waffle Pack Available (Standard is bulk)



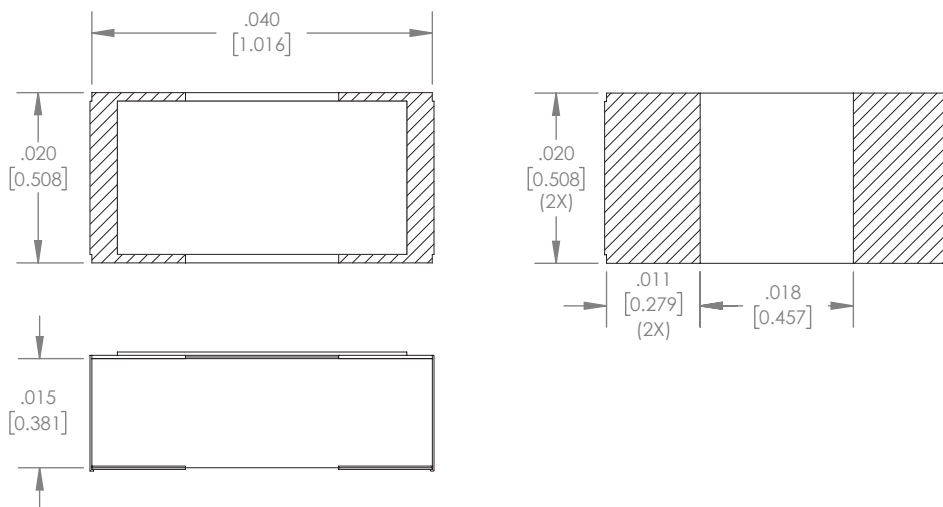
RP0402ZZ-XXXXWN-91 Parameters:

Resistance Range: 0.5Ω - 1MΩ
 Rated Power: 100mW*
 Construction: Thick Film on Al₂O₃
 Operating Temperature: -55 to +150°C

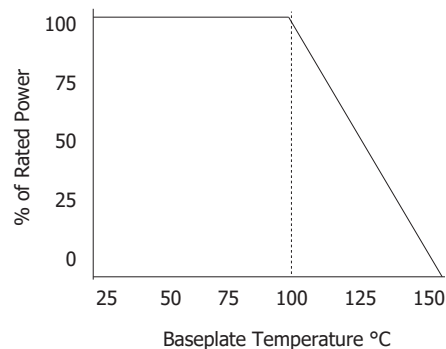
Actual Size

* Rating based on ≤100°C constant baseplate temperature

RP0402ZZ-XXXXWN-91 Dimensions:



RP0402ZZ-XXXXWN-91 Power Derating Curve



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

Ordering Information:

Example Part Number: RP0402CT-50R0JN-91

RP **0402** **ZZ** - **XXXX** **W** **N** - **91** **UU**

Prefix for Wraparound Resistor

Size
0402

Value Code Examples
 10R0 - 10Ω 1002 - 10KΩ
 1000 - 100Ω 1003 - 100KΩ
 1001 - 1KΩ 1004 - 1MΩ

Tolerance
 F - 1%
 G - 2%
 J - 5%

Normal Inspection
 Contact factory for additional options

Substrate
91 - 0.015" Al₂O₃

Packaging
 Blank - Bulk
 TR - Tape and Reel
 WP - Waffle Pack

Terminal Metallization

BA -	Palladium Silver
CT -	100% Matte Tin over Nickel over Silver
CB -	Sn62 over Nickel over Silver
CC -	100% Matte Tin over Copper
GA -	Gold

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

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

RP0402ZZ-XXXXWN-91 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°C to +150°C 30 Minutes Dwell, 5 Cycles	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)

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