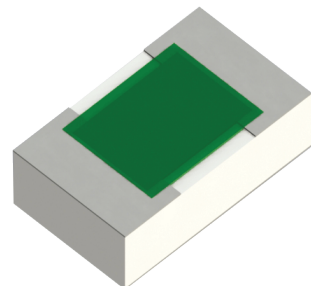


RM0503ZZ-XXXXWN-91 Features:

- Single-Sided Terminal w/ Backplane Configuration
- Solder, Epoxy or Wirebondable Terminals
- Customer Defined Testing Available
- RoHS Compliant or SnPb Available
- Tape and Reel or Waffle Pack Available (Standard is bulk)



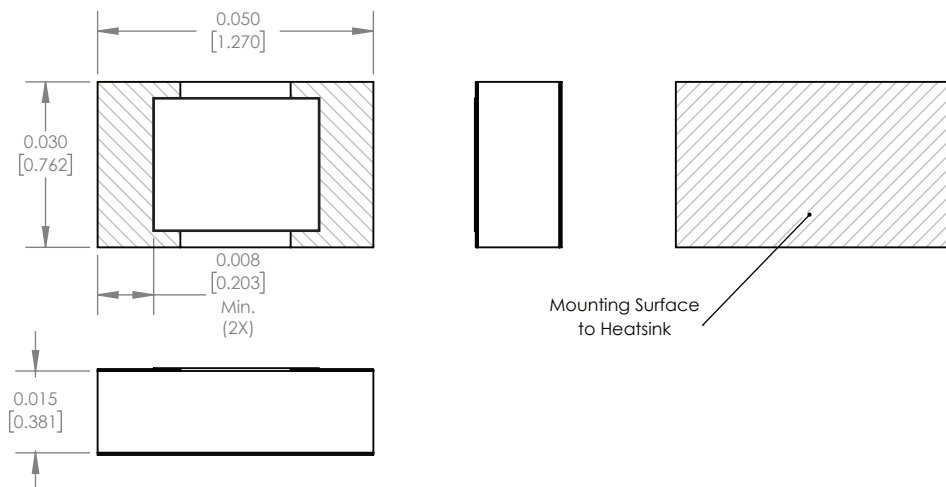
■ Actual Size

RM0503ZZ-XXXXWN-91 Parameters:

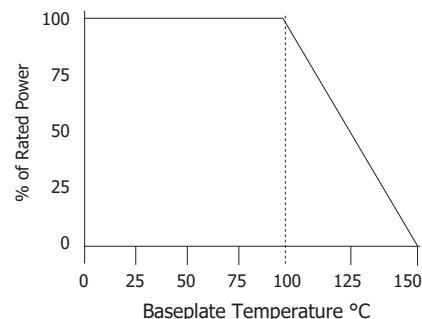
Resistance Range: 0.5Ω - 1MΩ
 Rated Power: 0.3W*
 Construction: Thick Film on Al₂O₃
 Operating Temperature: -55 to +150°C

* Rating based on ≤100°C constant baseplate temperature

RM0503ZZ-XXXXWN-91 Dimensions:



RM0503ZZ-XXXXWN-91 Power Derating Curve



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

Ordering Information:

RM	0503	ZZ	-	XXXX	W	N	-	91	UU
Prefix for Single-Sided Resistor w/ Backplane				Value Code Examples	Tolerance	Normal Inspection		Substrate	Packaging
				50R0 - 50Ω 1002 - 10KΩ	G - 2% J - 5%	Contact factory for additional options		91 - 0.015" Al ₂ O ₃	Blank - Bulk WP - Waffle Pack TR - Tape & Reel
Size	0503			1000 - 100Ω 1003 - 100KΩ					
				1001 - 1KΩ 1004 - 1MΩ					

Terminal Metallization

AS -	Tin Lead over Platinum Palladium Gold
BA -	Palladium Silver
CB -	Tin Lead over Nickel over Silver
CT -	100% Matte Tin over Nickel over Silver
GA -	Gold

	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
GA -	Yes	No	No	Yes	Yes

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

RM0503ZZ-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 to +125 30 Minutes Dwell, 5 Cycles	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)

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