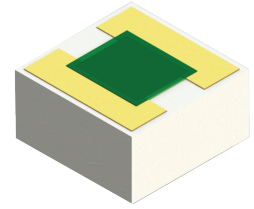


RM0505ZZ-XXXXWN-98 Features:

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



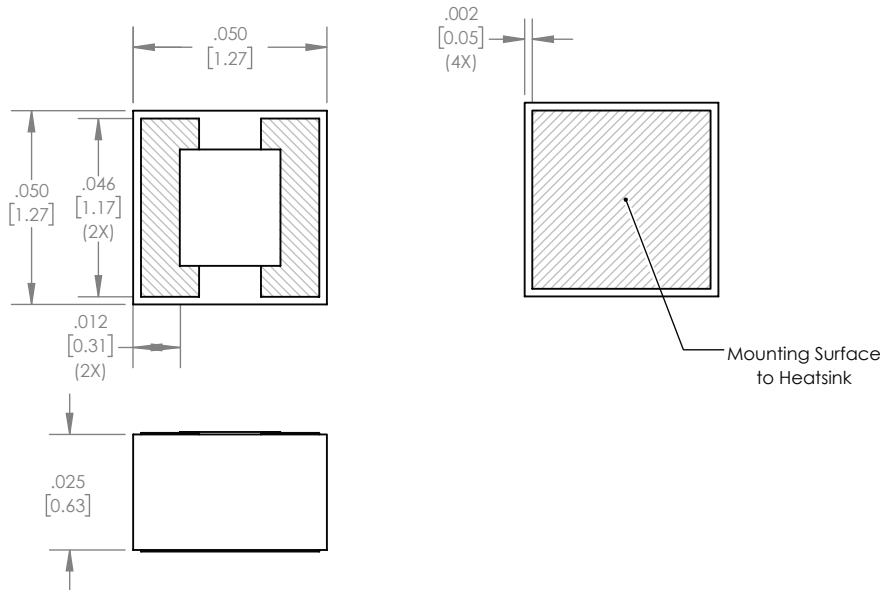
■ Actual Size

RM0505ZZ-XXXXWN-98 Parameters:

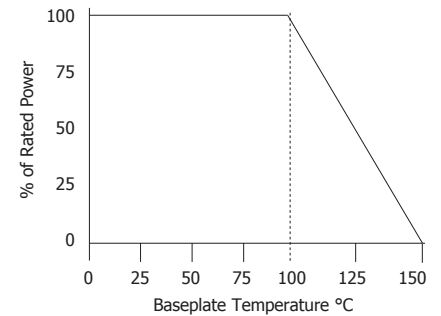
| | |
|------------------------|--------------------------|
| Resistance Range: | 0.5Ω - 1MΩ |
| Rated Power:* | 3W |
| Construction: | Thick Film on 0.025" BeO |
| Operating Temperature: | -55 to +150°C |

* Rating based on ≤100°C constant baseplate temperature

RM0505ZZ-XXXXWN-98 Dimensions:



RM0505ZZ-XXXXWN-98 Power Derating Curve



Dimensions in inches [mm]
Tolerance is ± 0.005 [0.13]
unless otherwise stated

Ordering Information:

Example Part Number: RM0505AS-50R0JN-98

| | | | | | | | | | |
|---|------|----|---|---|---|---|---|------------------------------|---|
| RM | 0505 | ZZ | - | XXXX | W | N | - | 98 | UU |
| Prefix for Resistor w/ Single-Sided Terminals and Backplane | | | | Value Code | Tolerance | Normal Inspection Contact factory for additional options | | Substrate 98 - 0.025" BeO | Packaging Blank - Bulk WP - Waffle Pack TR - Tape & Reel |
| Size | 0505 | | | 50R0 - 50Ω 1000 - 100Ω 1001 - 1KΩ | 1002 - 10KΩ 1003 - 100KΩ 1004 - 1MΩ | F - 1% G - 2% J - 5% | | | |

Terminal Metallization

| | RoHS | Magnetic | Solder | Epoxy | Wirebond |
|---|------|----------|-----------------|-------|---------------------|
| AS - Tin Lead over Platinum Palladium Gold | No | No | Yes | No | No |
| CB - Tin Lead over Nickel over Silver | No | Yes | Yes | No | No |
| CC - 100% Matte Tin over Copper over Silver | Yes | No | Yes | No | No |
| CT - 100% Matte Tin over Nickel over Silver | Yes | Yes | Yes | No | No |
| HA - Gold over Platinum Gold I/O Terminals w/ Platinum Palladium Gold Backplane | Yes | No | Yes (Backplane) | Yes | Yes (I/O Terminals) |
| JA - Gold over Platinum Palladium Gold | Yes | No | No | Yes | Yes |

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

RM0505ZZ-XXXXWN-98 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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