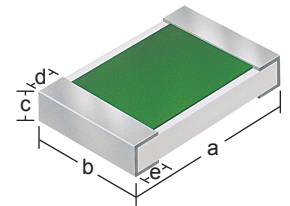




# State of the Art, Inc.

## Zero Ohm Chip Resistor

MIL-PRF-32159/12 Solderable RCZ0603



### Performance

|                    |              |
|--------------------|--------------|
| Power Rating       | 70 mW        |
| Operating Range    | -65 to 150°C |
| Product Levels     | M & T        |
| Current Rating     | 1.5 A        |
| Maximum Resistance | 0.030 Ω      |

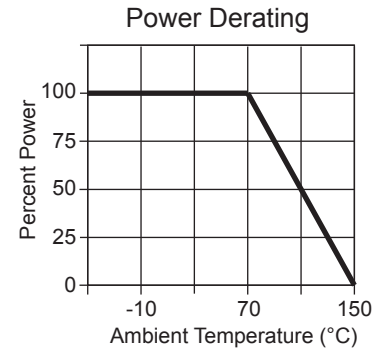
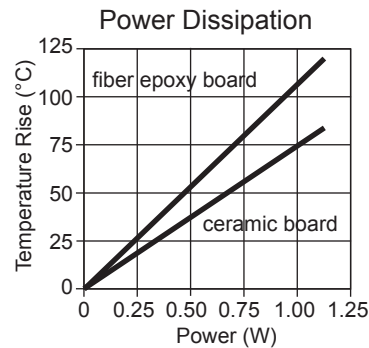
**MIL-PRF-32159** provides zero ohm chip resistors (jumpers) at two product levels: military M and space level T. Both levels are subject to Group A, B, and C lot acceptance testing. While Group C does include a 2000 hour life test, it does not accumulate enough unit hours to provide an established reliability failure rate level.

**Military level M** is subject to Group A on a production lot basis while Groups B and C are performed on an inspection lot basis.

**Space level T** is subject to Groups A and B on a production lot basis while Group C is performed on an inspection lot basis. Group A includes 100% power conditioning to screen infant mortality.

### Lot Acceptance Testing

|  |                           |
|--|---------------------------|
| Group A                                  | Group B                   |
| Precap Visual                            | Short Time Overload       |
| Thermal Shock                            | Mounting Integrity        |
| Power Conditioning<br>(space level only) |                           |
| DC Resistance                            | Group C                   |
| Visual Inspection                        | Life (2000 hours)         |
| Solderability                            | Thermal Shock             |
| Resistance to Solvents                   | Low Temperature Operation |
|  | Resistance to Mounting    |
|  | Moisture Resistance       |
|  | High Temperature Exposure |



### Part Number

M32159B12M -TR

Packaging: -TR: Tape & Reel -W: Waffle Tray

Product Level: M: Military T: Space

Size: 12: RCZ0603

Termination Material: B: Solderable (SnPb solder over nickel)

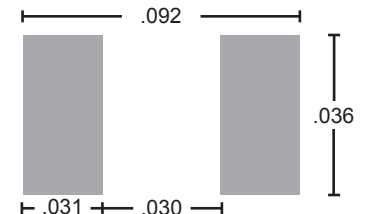
Performance Specification MIL-PRF-32159

### Mechanical

|                        | Inches            | Millimeters       |
|------------------------|-------------------|-------------------|
| Length (a)             | .064(.058 - .070) | 1.63(1.47 - 1.78) |
| Width (b)              | .032(.027 - .037) | 0.81(0.69 - 0.94) |
| Thickness (c)          | .017(.010 - .033) | 0.43(0.25 - 0.84) |
| Top Termination (d)    | .010(.007 - .017) | 0.25(0.18 - 0.43) |
| Bottom Termination (e) | .015(.010 - .020) | 0.38(0.25 - 0.51) |

Approximate Weight 0.00232 g

Recommended Minimum Bond Pads (inches)



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Specifications Subject to Change Without Notice

All Products Made in the USA

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