# State of the Art, Inc. Zero Ohm Chip Resistor MIL-PRF-32159/01 Epoxy Bondable RCZ0502

### Performance

Power Rating	50 mW		
Operating Range	-65 to 150°C		
Product Levels	M & T		
Termination Material	G	C	U
Current Rating	1.3 A	0.91 A	0.58 A
Maximum Resistance	0.030 Ω	0.060 Ω	0.150 Ω

**MIL-PRF-32159** provides zero ohm chip resistors (jumpers) at two product levels: miltary 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
Precap Visual
Thermal Shock
Power Conditioning
(space level only)
DC Resistance
Visual Inspection
Solderability
Resistance to Solvents

Group B Short Time Overload Mounting Integrity

Specifications Subject to Change Without Notice

Group C Life (2000 hours) Thermal Shock Low Temperature Operation Resistance to Mounting Moisture Resistance High Temperature Exposure

#### **Power Dissipation** Power Derating 125 Temperature Rise (°C) 100 100 Percent Power 75 75 50 50 ceramic board 25 25 Ω 0 0.25 0.50 0.75 1.00 1.25 -10 0 70 150 Power (W) Ambient Temperature (°C)

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# Part Number

# M32159C01M -TR

Packaging: -TR: Tape & Reel -W: Waffle Tray
Product Level: M: Military T: Space
Size: 01: RCZ0502
Termination Material: C: Epoxy Bondable Silver U: Epoxy Bondable Platinum Gold G: Epoxy Bondable Gold
Performance Specification MIL-PRF-32159

# Mechanical

Length (a) Width (b) Thickness (c) Top Termination (d) Bottom Termination (e) Approximate Weight	Inches .052(.049061) .025(.020030) .018(.010033) .009(.005015) .014(.010020) 0.00155 g	Millimeters 1.32(1.24 - 1.55) 0.64(0.51 - 0.76) 0.46(0.25 - 0.84) 0.22(0.13 - 0.38) 0.36(0.25 - 0.51)	Recommended Minimum Bond Pads (inches)	.029		
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All Products Made in the USA