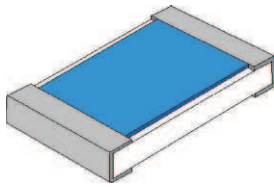




# State of the Art, Inc.

## M32159/03 Zero Ohm Chip Resistor

Surface Mount, Jumper



### FEATURES

- Operating temperature range : -55° C to +150° C
- MIL-PRF-55342 "S" level qualified manufacturer
- Solderable (termination material B) termination pretinned with SN60 over nickel barrier suitable for solder reflow vapor phase or wave solder attachment.
- Epoxy Bondable terminations available with silver based (C), platinum gold (U) and gold (G) finishes for epoxy attachment.

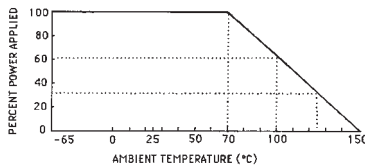
### PERFORMANCE

Termination Material	B/G	C	U
Maximum Resistance	0.025 Ω	0.040 Ω	0.125 Ω
Maximum Current	2.8A	2.2A	1.30A
Maximum Power Rating	200 mW		

### ENVIRONMENTAL PERFORMANCE

Thermal Shock	Not to exceed maximum value
Low Temperature Operation	"
Short-time Overload	"
Resistance to Bonding Exposure	"
Moisture Resistance	"
High Temperature Exposure	"
Life	"

### POWER DERATING



Percentage of power to be applied at various ambient temperatures. Full rated power to 70°, linearly derated to 0 power at 150°C.

### PRODUCT LEVELS

All product levels are based on the same design. Level C is a Non-Established Reliability part requiring no group A, B or C testing. Military product level M is subject to group A, B and C testing per MIL-PRF-32159. Space product level T requires group A and B tests performed on a production lot basis, including 100% power conditioning.

### MECHANICAL

	INCHES	MILIMETERS
Length	.100 (.098 - .112)	2.54 (2.49 - 2.84)
Width	.048 (.045 - .055)	1.22 (1.14 - 1.40)
Thickness	.018 (.015 - .033)	0.46 (0.38 - 0.84)
Top Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.072 (.068 - .076)	1.83 (1.73 - 1.93)
Approx. Weight	.0054 grams	

Solderability: (Termination material (B) Solder coating compatible with Sn60, 62 or 63 solders, provides good wetting with all types of solder attachment. All product is tested IAW Mil-Std-202, method 208, including 8 hour steam aging.

### PART NUMBERING

**M32159 B 03 M**

PRODUCT LEVEL DESIGNATOR\*  
M: Military C: Industrial T: Space Level

Size Code: RCZ1005  
/03 = 0.100 X 0.050 X 0.015

Termination Material:  
B: Solderable  
C: Silver based epoxy bondable  
G: Gold epoxy bondable  
U: Pt Au epoxy bondable

### PACKAGING

Two packaging options are available:

Waffle Pack - (170 per Tray Max.)  
Tape & Reel - (5000 per 8" Inch Reel Max.)

### OPTIONS

SOTA offers a full line of thick & thin film resistors in the 1005 size including Standard Grade, High-Reliability (customer specified testing). Custom part marking is available.

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02/12/09

\*Specifications subject to change without notice.\*

Where Quality Isn't a Goal...It's Our Tradition