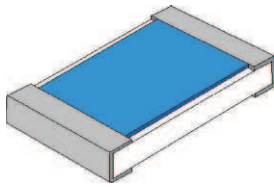




# State of the Art, Inc.

## M32159/10 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

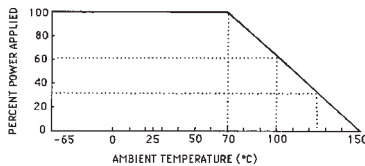
Termination Material	B/G	C	U
Maximum Resistance	0.020 Ω	0.030 Ω	0.100 Ω
Maximum Current	5.0A	4.1A	2.2A

Maximum Power Rating 500 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.

### PART NUMBERING

**M32159 B 10 M**

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

Size Code: RCZ1010  
/10 = 0.100 X 0.100 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 - (100 per Tray Max.)
- Tape & Reel - (5000 per 8" Inch Reel Max.)

### OPTIONS

SOTA offers a full line of thick & thin film resistors in the 1010 size including Standard Grade, High-Reliability (customer specified testing). Custom part marking is available.

### MECHANICAL

	INCHES	MILIMETERS
Length	.101 (.098 - .112)	2.57 (2.49 - 2.84)
Width	.095 (.095 - .105)	2.41 (2.41 - 2.67)
Thickness	.018 (.015 - .033)	0.46 (0.38 - 0.84)
Top Term	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Bottom Term	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Gap	.071 (.067 - .075)	1.80 (1.70 - 1.91)
Approx. Weight	.0105 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.

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02/13/09

\*Specifications subject to change without notice.\*

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