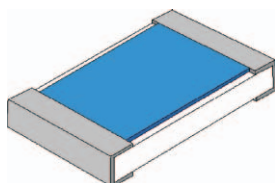




# State of the Art, Inc.

## M32159/12 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.

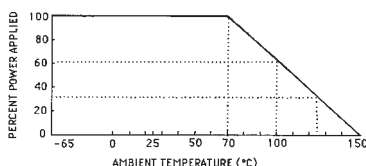
### PERFORMANCE

Termination Material	B/G	C	U
Maximum Resistance	0.030 Ω	0.060 Ω	0.150 Ω
Maximum Current	1.5A	1.1A	0.68A
Maximum Power Rating	70 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	.062 (.058 - .070)	1.58 (1.47 - 1.78)
Width	.032 (.027 - .037)	0.81 (0.69 - 0.94)
Thickness	.018 (.010 - .033)	0.46 (0.25 - 0.84)
Top Term	.010 (.007 - .017)	0.25 (0.18 - 0.43)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.034 (.030 - .038)	0.86 (0.76 - 0.97)
Approx. Weight	.00235 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 12 M

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

Size Code: RCZ0603  
/12 = 0.060 X 0.030 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 0603 size including Standard Grade, High-Reliability (customer specified testing). Custom part marking is available.

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02/13/09

\*Specifications subject to change without notice.\*

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