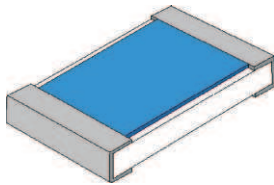




State of the Art, Inc.

M32159/13 Zero Ohm Chip Resistor

Surface Mount, Jumper



PERFORMANCE

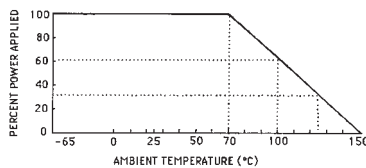
Termination Material	B/G	C	U
Maximum Resistance	0.030 Ω	0.060 Ω	0.150 Ω
Maximum Current	1.1A	0.76A	0.48A

Maximum Power Rating 35 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 13 M

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

Size Code: RCZ0302
/13 = 0.030 X 0.020 X 0.012

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

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.

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	.032 (.028 - .036)	0.81 (0.71 - 0.91)
Width	.022 (.017 - .027)	0.56 (0.43 - 0.69)
Thickness	.015 (.010 - .025)	0.38 (0.25 - 0.51)
Top Term	.005 (.002 - .012)	0.13 (0.05 - 0.31)
Bottom Term	.008 (.003 - .013)	0.20 (0.08 - 0.33)
Gap	.016 (.012 - .020)	0.41 (0.31 - 0.51)
Approx. Weight	.00069 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.

PACKAGING

Two packaging options are available:

Waffle Pack - (360 per Tray Max.)
Tape & Reel - (5000 per 8" Inch Reel Max.)

OPTIONS

SOTA offers a full line of thick & thin film resistors in the 0302 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