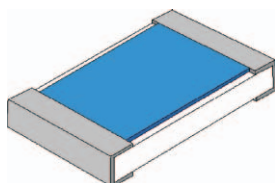




State of the Art, Inc.

M32159/02 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

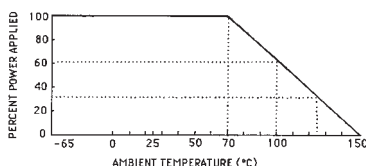
Termination Material	B/G	C	U
Maximum Resistance	0.020 Ω	0.030 Ω	0.100 Ω
Maximum Current	2.2A	1.8A	1.00A

Maximum Power Rating 50 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 02 M

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

Size Code: RCZ0505
/02 = 0.050 X 0.050 X 0.018

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

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	.052 (.050 - .060)	1.32 (1.27 - 1.52)
Width	.048 (.045 - .055)	1.22 (1.14 - 1.40)
Thickness	.018 (.013 - .023)	0.38 (0.33 - 0.58)
Top Term	.009 (.005 - .015)	0.22 (0.13 - 0.38)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.024 (.020 - .028)	0.61 (0.51 - 0.71)
Approx. Weight	.00315 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 - (400 per Tray Max.)
- Tape & Reel - (5000 per 8" Inch Reel Max.)

OPTIONS

SOTA offers a full line of thick & thin film resistors in the 0505 size including Standard Grade, High-Reliability (customer specified testing). Custom part marking is available.

STATE OF THE ART, INC. 2470 Fox Hill Road, State College, PA 16803-1797

Phone (814) 355-8004 Fax (814) 355-2714 Toll Free 1-800-458-3401

02/19/09

Specifications subject to change without notice.

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