

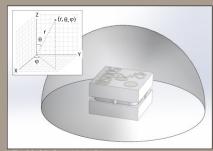
# Micro G Switch Combined Side & Bottom Contact Model AT-500-SB

## **FEATURES:**

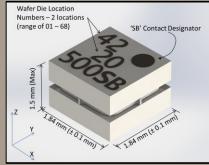
- Small and Lightweight 3.4 mm<sup>2</sup>
- Extremely Fast Response Times
- High Shock Survivability 65,000+ 6
- Surface Mount Au over Ni Pads
- Tape and Reel Packaging
- Hermetic Seal

## **APPLICATIONS:**

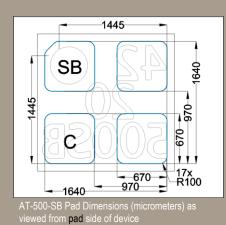
- Impact Detection
- Arming / Fuzing / Launch
- More



AT-500-SB Sensitivity Direction (Theta 0-90 degrees, Phi 0-360 degrees)



AT-500-SB Device Dimensions



# Specifications

# **OPERATING CHARACTERISTICS:**

## **ELECTRICAL CHARACTERISTICS**

Contact Resistance (1)<10	ohms
Insulation Resistance (min.)	Mohm
Breakdown Voltage >200	VDC

#### **ENVIRONMENTAL RATINGS:**

Operate Temperature Range55 to +125	$^{\circ}\mathrm{C}$
Storage Temperature Range55 to +125	°C
PCB/Pad Shear Force>20	
Shock Survival (6)	q

# PHYSICAL CHARACTERISTICS:

Nominal Dimensions (LxWxH)	1.84 x 1.84 x 1.3	mm
Volume	3.7	$\text{mm}^3$
Mass		
ROHS Compliant?	Yes	ŭ

- (1) Contact resistance is dependent on input pulse acceleration level.
- (2) Response time is a function of the acceleration profile.
- (3) Response time for a 1000g acceleration step input
- (4) Electrical connection between pads 'C'(common) & 'SB' (combined side bottom) is normally open and is closed while acceleration is greater than the contact acceleration threshold in either sensitivity direction
- (5) Contact Acceleration Threshold is approximately 40% greater at a theta angle of 45 degrees
- (6) The Micro G Switch devices are designed to survive the extreme high shock environments associated with artillery launch events.

Note that the information on this data sheet is for reference only.

As each application may have unique requirements, please verify the specifications as well as suitability of using our products in your applications by consulting our engineering department.

This product and related technical data are controlled for export by the International Trade in Arms Regulations. Any sale, export, transfer or re-sale, in any form, requires the prior written approval of the U.S. Department of State.

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