



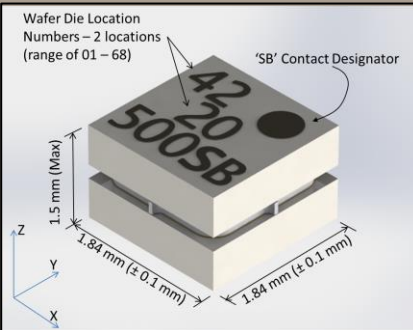
Micro G Switch Combined Side & Bottom Contact Model AT-500-SB

FEATURES:

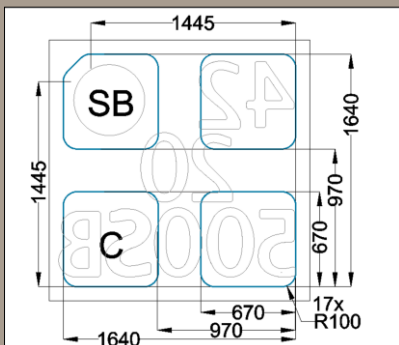
- Small and Lightweight – 3.4 mm²
- Extremely Fast Response Times
- High Shock Survivability – 65,000+ g
- Surface Mount – Au over Ni Pads
- Tape and Reel Packaging
- Hermetic Seal

APPLICATIONS:

- Impact Detection
- Arming / Fuzing
- Artillery, Launch
- More



AT-500-SB Device Dimensions



AT-500-SB Pad Dimensions (micrometers) as viewed from pad side of device

Specifications

OPERATING CHARACTERISTICS:

Sensitivity Directions	.....+Z (normal to PCB), XY plane (parallel to PCB)	
Contact Acceleration Threshold Range	.....	350 to 650 g
Contact Type (4)	.....	Normally Open, Non-Latching
Response Time (2) (3)	.....	< 100 μs
Reset	.....	Automatic with acceleration decay

ELECTRICAL CHARACTERISTICS

Contact Resistance (1)	.....	< 10 ohms
Insulation Resistance (min.)	.....	1000 Mohm
Breakdown Voltage	.....	>200 VDC

ENVIRONMENTAL RATINGS:

Operate Temperature Range	.....	-55 to +125 °C
Storage Temperature Range	.....	-55 to +125 °C
PCB/Pad Shear Force	.....	> 20 N

PHYSICAL CHARACTERISTICS:

Nominal Dimensions (LxWxH)	.....	1.84 x 1.84 x 1.3 mm
Volume	.....	3.7 mm ³
Mass	.....	20 milligrams
ROHS Compliant?	.....	Yes

- (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

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

Please verify the specifications as well as suitability for your application 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.