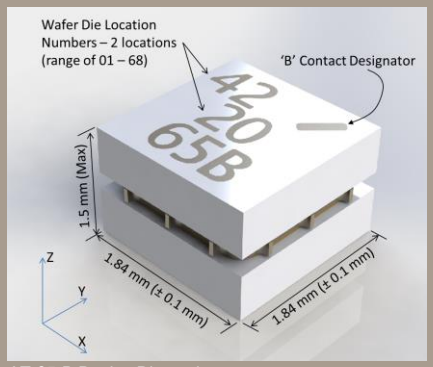
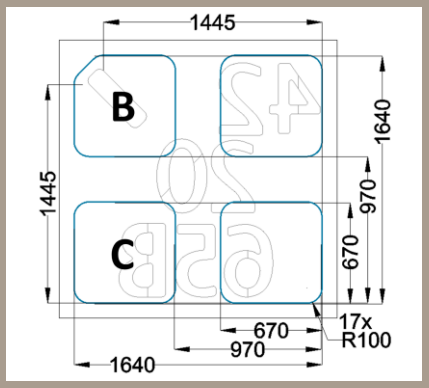
Micro G Inertial Switch
Bottom Contact
Model AT-65-B

FEATURES:
- Small and Lightweight – 3.4 mm^2
- Extremely Fast Response Times
- High Shock Survivability – 65,000+ g
- Surface Mount – Au over Ni Pads
- Tape and Reel Packaging

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



AT-65-B Device Dimensions



AT-65-B Pad Dimensions (micrometers) as viewed from pad side of device

Specifications

OPERATING CHARACTERISTICS:

Sensitivity (4)	+Z (normal to PCB)	
Contact Acceleration Threshold (nominal)	65	g
Contact Type (3)	Single Pole, Normally Open, Non-Latching	
Response Time (2)	< 50	µs
Reset	Automatic with g decay	

ELECTRICAL CHARACTERISTICS

Contact Resistance (1)	< 10	ohms
Insulation Resistance (min.)	1000	Mohm
Breakdown Voltage	>230	VDC

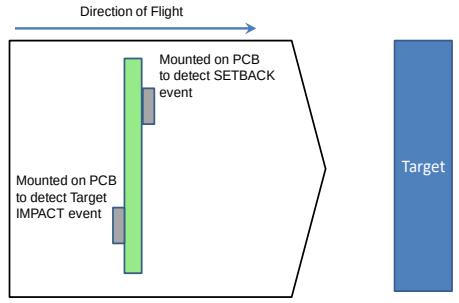
ENVIRONMENTAL RATINGS:

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

PHYSICAL CHARACTERISTICS:

Dimensions (LxWxH)	1.84 x 1.84 x 1.10	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 depends upon input pulse profile
(3) Electrical connection between pads B (bottom) and C (common) is normally open and is closed while acceleration is greater than the contact acceleration threshold.
(4) The diagram below provide guidance on how to mount the switch for setback or impact detection



PCB
Mounted Perpendicular to Direction of Flight

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.

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