



Micro G Inertial Switch Top & Side Contact Model AT-65-TS

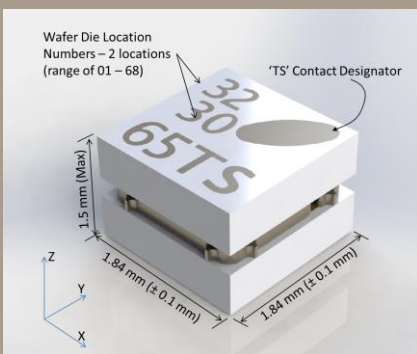
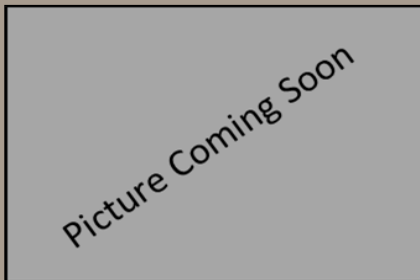
PRELIMINARY

FEATURES:

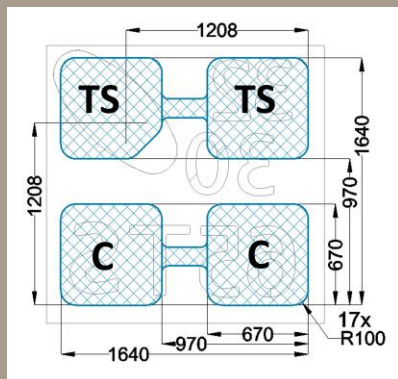
- Small and Lightweight – 3.4 mm²
- Extremely Fast Response Times
- High Shock Survivability – 65,000+ g
- Surface Mount – Au over Ni Pads
- Tape and Reel Packaging
- Environmental Seal

APPLICATIONS:

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



AT-65-TS Device Dimensions



AT-65-TS Pad Dimensions (micrometers) as viewed from PAD side of device

Specifications

OPERATING CHARACTERISTICS:

Sensitivity	-Z (normal to PCB)	
.....	XY Plane (parallel to PCB)	
Contact Acceleration Threshold	50 to 80	g
Contact Type (4).....	Single Pole, Normally Open, Non-Latching	
Response Time (2).....	< 600	µs
Reset.....	Automatic with g decay	

ELECTRICAL CHARACTERISTICS

Contact Resistance (1)	< 100	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
Shock Survival (5)	>65000	g

PHYSICAL CHARACTERISTICS:

Dimensions (LxWxH)	1.84 x 1.84 x 1.15	mm
Volume	3.9	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) Response time shown for acceleration step input at the contact acceleration threshold.
- (4) Electrical connection between pads TS (combined top and side) and C (common) is normally open and is closed while acceleration is greater than the contact acceleration threshold.
- (5) The Micro G Switch devices are designed to survive the extreme high shock environments associated with artillery launch events.

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