



Wake Up / Shock Sensor

Bottom Sense

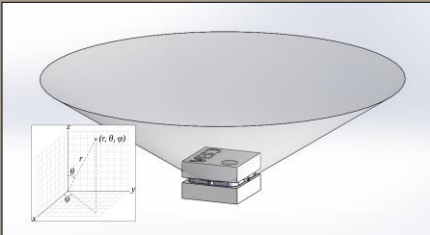
Model CS3B

FEATURES:

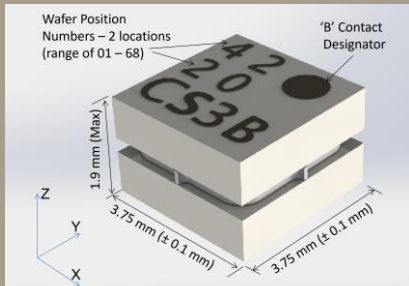
- Small and Lightweight – 14 mm²
- Tape and Reel Packaging

APPLICATIONS:

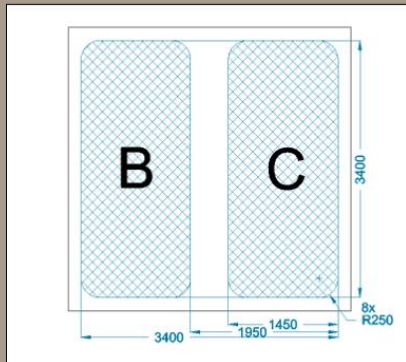
- Wake Up Sensing
- Shock Detection



CS3B Sensitivity Direction (Theta 0-70 degrees)



CS3B Device Dimensions



CS3B Pad Dimensions (micrometers) as viewed from PAD side of device

Specifications

OPERATING CHARACTERISTICS:

| | | |
|--|-----------------------------------|---|
| Sensitivity Direction | +Z (normal to PCB) | |
| Contact Acceleration Threshold Range (3) | 100 to 500 | g |
| Contact Type (2) | Normally Open, Non-Latching | |
| Reset | Automatic with acceleration decay | |

ELECTRICAL CHARACTERISTICS

| | | |
|------------------------------------|-------|------|
| Contact Resistance (1) | < 100 | ohms |
| Insulation Resistance (min.) | 1000 | Mohm |
| Breakdown Voltage | >100 | VDC |

ENVIRONMENTAL RATINGS:

| | | |
|---------------------------------|------------|----|
| Operate Temperature Range | -40 to +85 | °C |
| Storage Temperature Range | -40 to +85 | °C |
| PCB/Pad Shear Force | > 20 | N |

PHYSICAL CHARACTERISTICS:

| | | |
|----------------------------------|--------------------|-----------------|
| Nominal Dimensions (LxWxH) | 3.75 x 3.75 x 1.75 | mm |
| Volume | 24.6 | mm ³ |
| Mass | TBD | milligrams |
| ROHS Compliant? | Yes | |

- (1) Contact resistance is dependent on input pulse acceleration level.
- (2) Electrical connection between pads 'C'(common) & 'B' is normally open and will close while acceleration is greater than the contact acceleration threshold.
- (3) Contact Acceleration Threshold is approximately 40% greater at a theta angle of 45 degrees

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.

Passive Micro™

"When Power & Size Are Not An Option"