



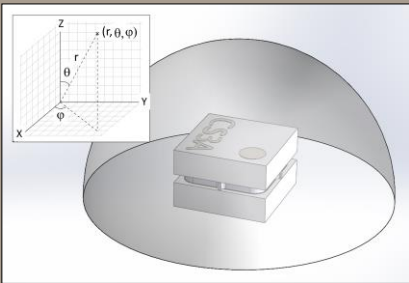
Wake Up / Shock Sensor Combined Side & Bottom Sense Model CS3A

FEATURES:

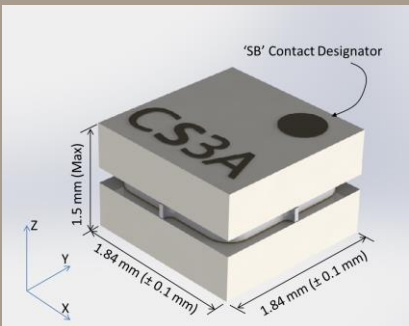
- Small and Lightweight – 3.4 mm²
- Tape and Reel Packaging

APPLICATIONS:

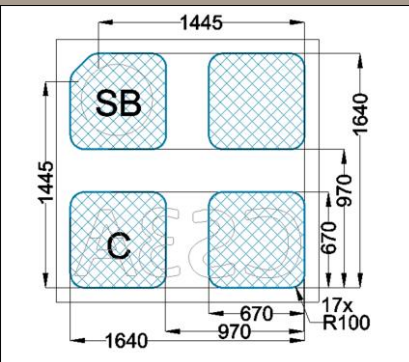
- Wake Up Sensing
- Shock Detection



CS3A Sensitivity Direction
(Theta 0-90 degrees, Phi 0-360 degrees)



CS3A Device Dimensions



CS3A 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 (3)		
Theta = 0 degrees or Theta = 90 degrees	.....	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)	.....	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) 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
- (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.

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"When Power & Size Are Not An Option"