



## Model PSC1001-50g

### Miniature tri-axial IEPE accelerometer

#### Features

- Tri-axial measurement
- Miniature cube
- Adhesive or stud mounting
- Hermetic seal
- Annular shear mode
- Wide frequency response
- Shock duration

#### Application

- Vibration monitoring
- Shock testing
- Satellite testing
- Modal analysis
- Aircraft testing



#### Dynamic

Sensitivity, $\pm 15\%$ , 25°C.	100 mV /g
Acceleration range	50 g peak
Amplitude nonlinearity	1%
Frequency response:	
$\pm 10\%$	6 - 8000 Hz
$\pm 3$ dB	3 - 10000 Hz
Resonant frequency	42 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
-55°C	-10%
+125°C	+10%

#### Electrical data

Power requirement: voltage source	18 - 30 VDC
Power requirement: current regulating diode	2 - 10 mA
Electrical noise, Broadband Spectral (g):	
2 Hz to 20 kHz.	1.6 mg
Output impedance, max	100 $\Omega$
Bias output voltage	8 - 12 VDC
Grounding	Case grounded

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#### Environmental

Temperature range	-55 to 125°C
Vibration limit	500 g peak
Shock limit	5000 g peak
Electromagnetic sensitivity, equiv g, max	90 µg/gauss
Sealing	Hermetic
Base strain sensitivity, max	0.0002 g/µstrain

#### Physical

Sensing element design	Ceramic/shear
Weight.	4.3 grams
Case material	Titanium
Output connector	4 pin

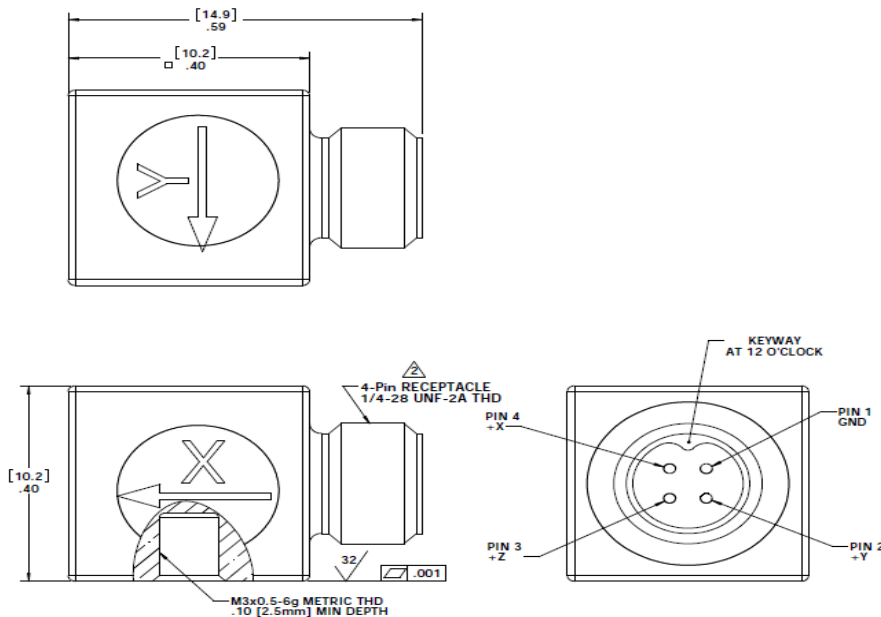
#### Accessories

Mounting stud: M3

Mating cable with BNCx3 output

#### Calibration certificate

Note: Frequency response limits spectral and noise values are typical



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