

## Waterproof mini tri-axial accelerometer



### Dynamic

Sensitivity, $\pm 10\%$ , 25°C.....	100 mV/g
Acceleration range .....	50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 10\%$ .....	6 - 8,000 Hz
$\pm 3$ dB.....	3 - 10,000 Hz
Resonance frequency.....	42 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-55°C.....	-10%
+125°C.....	+10%

### Electrical

Power requirement: voltage source .....	18 - 30 VDC
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, 25°C.....	8 - 12 VDC
Grounding.....	Case grounded

### Environmental

Temperature range.....	-55 to 125°C
Vibration limit.....	500 g peak
Shock limit.....	5,000 g peak
Electromagnetic sensitivity, equiv g, max .....	90 $\mu$ g/gauss
Sealing .....	Hermetic
Base strain sensitivity, max.....	0.0002 g/ $\mu$ strain

### Physical

Sensing element design.....	Ceramic/shear
Weight.....	4.3 grams
Case material.....	Titanium
Output.....	4 conductor cable

### Accessories

- Mounting stud: M3(-M)
- Calibration certificate

Note: Frequency response limits spectral and noise values are typical

### Features

- Waterproof design
- Tri-axial measurement
- Miniature cube
- Adhesive or stud mounting
- Hermetic seal
- Annular shear mode
- Shock duration

### Application

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

### Ordering Information

