

Embedded tri-axial IEPE accelerometer

Dynamic

Sensitivity, $\pm 10\%$, 25°C	20 mV/g
Acceleration range	100 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
Z axis($\pm 1\text{dB}$).....	1 - 7,000 Hz
X&Y axis($\pm 1\text{dB}$).....	1 - 1,000 Hz
Resonance frequency.....	38 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C	-10%
$+120^{\circ}\text{C}$	+10%

Electrical

Power requirement: voltage source	2.7– 5.5 VDC
Electrical noise, Broadband Spectral(g):	
1 Hz to 10 kHz.....	500 μg
Output impedance, max.....	100 Ω
Bias output voltage.....	VCC/2
Grounding.....	Case grounded

Environmental

Temperature range.....	-50 to 125°C
Vibration limit.....	500 g peak
Shock limit.....	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 $\mu\text{g/gauss}$
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 g/ μstrain

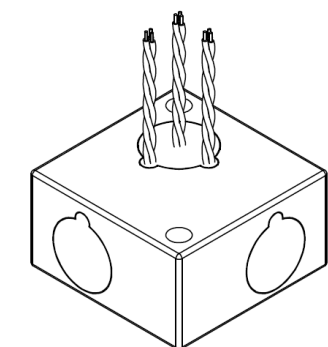
Physical

Sensing element design.....	Ceramic
Weight.....	27 grams
Case material.....	Aluminum
Output connector.....	Cable

Accessories

2 X M3 mounting screws
Calibration certificate
Option: Ceramic washer

Note: Frequency response limits spectral and noise values are typical

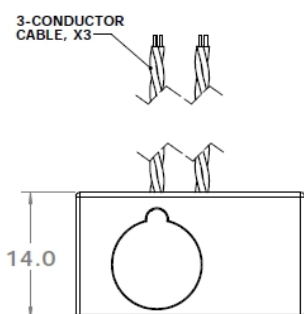
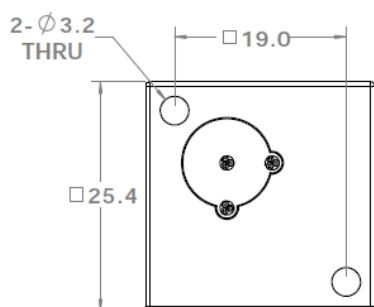


Features

- Miniature size
- Adhesive or stud mounting
- Hermetic seal
- Wide temperature range
- Wide frequency response
- Cost effective

Application

- Embedded monitoring
- Shock testing
- Modal analysis
- Machine monitoring



Ordering Information

535B-100	
└─	Range in g
└─	Output type
└─	Model