Senther

515B-20

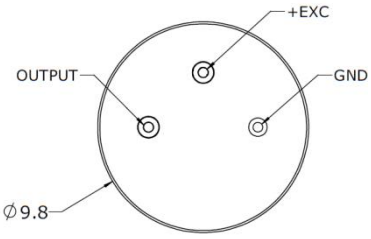
Embedded IEPE accelerometer

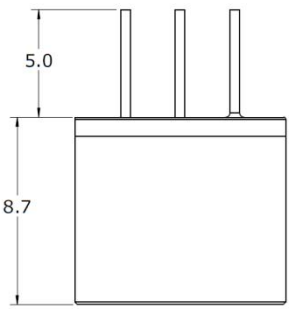
Features

- Miniature size
- Size 10X9
- Adhesive or stud mounting
- Annular shear mode
- Wide temperature range
- Wide frequency response

Application

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





Dynamic

Sensitivity, ±10%, 25°C	100 mV/g
Acceleration range	20 g peak
Amplitude nonlinearity	1%
Frequency response:	
± 5%	1 - 7,000 Hz
±1dB	1 - 10,000 Hz
± 3 dB	0.5 - 12,000 Hz
Resonance frequency	38 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
–50°C	–10%
+120°C	+10%

Electrical

Power requirement: voltage source	3.0 – 5.5 VDC
Resolution, Broadband Spectral(g):	1 mg
Output impedance, max	100 Ω
Bias output voltage	VCC/2
Current consumption	<0.15mA
Warm up time	<1s
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 µg/gauss
Sealing	Epoxy
Base strain sensitivity, max	0.0002 g/µstrain

Physical

Sensing element design	PZT ceramic/shear
Weight	3.2 grams
Case material	Stainless Steel
Output	TO-5

Accessories

TO-5 connector output
Calibration certificate
Option: Ceramic washer
Note: Frequency response limits spectral and noise values are typical

Ordering Information

515B-20

- Range in g
- Output type
- Model