

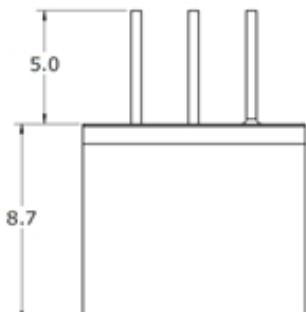
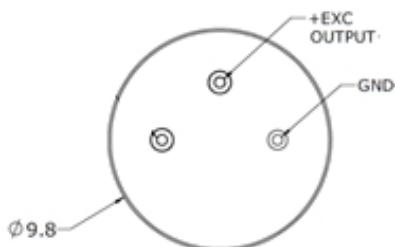


Features

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

Application

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



Embedded IEPE accelerometer

Dynamic

Sensitivity, ±10%, 25°C.....	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
± 5%.....	1 - 7,000 Hz
±1dB.....	1 - 10,000 Hz
± 3 dB.....	0.5 - 15,000 Hz
Resonance frequency.....	40 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C.....	-10%
+120°C.....	+10%

Electrical

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 10 mA
Electrical noise, Broadband Spectral(g):	
1 Hz to 10 kHz.....	500µg
Output impedance, max.....	100Ω
Bias output voltage.....	10 VDC
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	Hermetic
Base strain sensitivity, max	0.0002 g/strain

Base strain S₀

Physical

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

Accessories

Accessories

TQ-5 connector output

TO connector output Calibration certificate

Note: Frequency resp.

Note: Frequency response limits spectral and noise values are typical

Ordering Information

515A-50

