



Embedded IEPE accelerometer

Dynamic

Sensitivity, $\pm 10\%$, 25°C	20 mV/g
Acceleration range	100 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 5\%$	1 - 7,000 Hz
$\pm 1\text{dB}$	1 - 10,000 Hz
$\pm 3\text{ dB}$	0.5 - 15,000 Hz
Resonance frequency.....	40 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 μg /gauss
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 μg /strain

Physical

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

Accessories

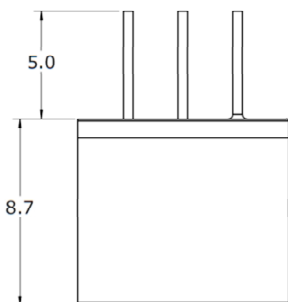
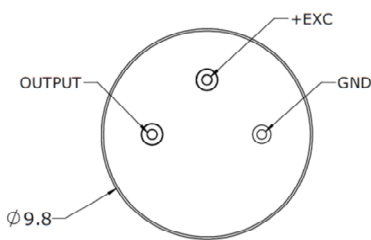
TO-5 connector output
 Calibration certificate
 Option: Ceramic washer
 Note: Frequency response limits spectral and noise values are typical

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



Ordering Information

