

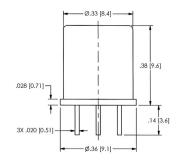
Ultra low power embedded accelerometer LVEP100-TO5

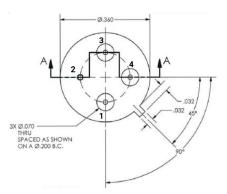
SPECIFICATIONS

Sensitivity, ±10% ¹ , 25°C	100 mV/g
Acceleration range	14 g peak
Amplitude nonlinearity	1%
Frequency response, nominal ² : ±5% ±10% ±3 dB	6 - 5,000 Hz 4 - 7,000 Hz 2 - 12,500 Hz
Resonance frequency, nominal	>25 kHz
Transverse sensitivity, max	5% of axial
Sensitivity variation with temp: -25°C +120°C	+5% -15%
Power requirement: Voltage source Quiescent current, nominal Power-down mode	3.0 - 5.5 VDC 60 μΑ 0 μΑ
Electrical noise, nominal, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	- · [····-
Output impedance, max	1,000 Ω
Bias output voltage, settling time ³ , nominal Including temp effects	350 μs 1.5 VDC ±5%
Grounding	none: pellet case must be isolated from mounting surface
Electromagnetic sensitivity, equiv. g, max	200 μg/gauss
Sensing element design	PZT, shear
Sealing	hermetic
Weight	3.2 grams
Case material	304L stainless steel
Header material	Kovar
Mounting	epoxy; pellet must be isolated from mounting surface or TO5 4-pin mount

Key features

- 180 µW power consumption
- Fast BOV settling time of 350 µs
- Standardized TO5 semiconductor package





Pin

1

3

4

Connections

Function

common

case

output

power

Notes: 1 5% sensitivity tolerance available upon request.

 $^{\rm 2}$ Frequency response when epoxy mounted using flat shield surface.

³ Based on BOV within 10% of nominal BOV at 25°C.

Accessories supplied: calibration data

CE

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

Wilcoxon Sensing Technologies An Amphenol Company 8435 Progress Drive Frederick, MD 21701 USA Tel: +1 (301) 330-8811 Fax: +1 (301) 330-8873

info@wilcoxon.com www.wilcoxon.com