

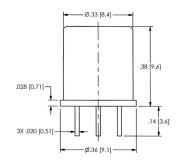
Ultra low power embedded accelerometer LVEP100-TO5

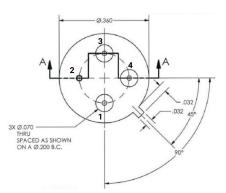
SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	14 g peak
Amplitude nonlinearity	1%
Frequency response, nominal ¹ : ±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	600 μg 24 μg/√Hz 8 μg/√Hz 4 μg/√Hz
Output impedance, max	1,000 Ω
Bias output voltage, settling time ² , 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





ConnectionsFunctionPincommon1case2output3power4

Notes: ¹ Frequency response when epoxy mounted using flat shield surface. ² 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.

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