

## **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 <sup>1</sup> :	±5% ±10% ±3 dB	6 - 5,000 Hz 4 - 7,000 Hz 2 - 11,000 Hz
Resonance frequency		17 kHz
Transverse sensitivity, max		5% of axial
Sensitivity variation with temp:	–25°C +120°C	+5% -15%
Power requirement: Voltage source Quiescent current, nominal		3.0 - 5.5 VDC 60 μΑ
Electrical noise, nominal, equiv. Broadband 2.5 Hz to Spectral		600 μg 24 μg/√Hz 8 μg/√Hz 4 μg/√Hz
Output impedance, max		1,000 Ω
Bias output voltage, settling time <sup>2</sup> , 25°C Including temp effects		<10 ms 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

**Notes:** <sup>1</sup> Frequency response when epoxy mounted using flat shield surface. <sup>2</sup> Based on BOV within 10% of nominal BOV at 25°C.

Accessories supplied: calibration data

## CE

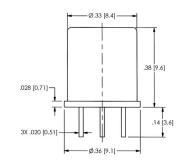
Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

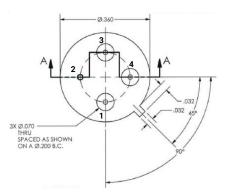
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## Key features

- 180 µW power consumption
- Fast BOV settling time of <10 ms
- Standardized TO5 semiconductor package





Connections		
Function	Pin	
common	1	
case	2	
output	3	
power	4	