

Ultra low power embedded accelerometer LVEP025-TO5

SPECIFICATIONS

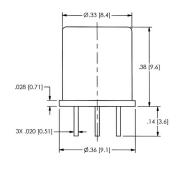
Sensitivity, ±10%¹, 25°C	25 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity	1%
Frequency response, nominal2: ±10 ±10 ±3 c	,
Resonance frequency, nominal	>25 kHz
Transverse sensitivity, max	7% of axial
Sensitivity variation with temp: -25° +120°	
Power requirement: Voltage source Quiescent current, nominal	3.0 - 5.5 VDC 60 μA
Electrical noise, nominal, equiv. g: Broadband 2.5 Hz to 25 kł Spectral 10 ł 100 l 1,000 l	Hz 55 μg/√Hz Hz 17 μg/√Hz
Output impedance, max	1,000 Ω
Bias output voltage settling time ³ , nomin Including temp effect	
Grounding	none: pellet case must be isolated from mounting surface
Electromagnetic sensitivity, equiv. g, ma	x 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 TO-5 4-pin mount

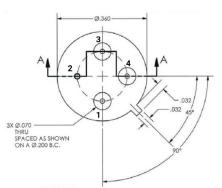
Key features

• 180 µW power consumption

- Fast startup time, fast BOV settling time of 350 μs

 Standardized TO-5 semiconductor package





Connections	
Function	Pin
common	1
case	2
output	3
power	4

Notes: 1 5% sensitivity tolerance available upon request.

² Frequency response when epoxy mounted using flat shield surface.

³ Based on BOV within 10% of nominal BOV at 25°C. Power off for 30 sec minimum for fastest startup.

Accessories supplied: calibration data

CE

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