

## Model 6050

### Economy General Purpose Industrial Accelerometer



#### DESCRIPTION AND FEATURES

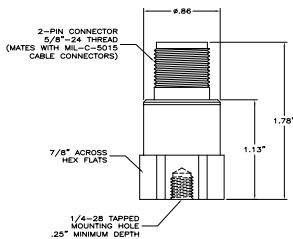
The industry standard 6000 series accelerometers feature welded hermetically sealed construction, a top 2-Pin MIL style connector, and 1/4-28 mounting stud.

The economy Model 6050 offers a broad frequency range and low cost for applications requiring multiple sensors.

- 100 mV/g
- Hermetically Sealed
- 2-Pin MIL Style Connector

#### APPLICATIONS

- General Industrial
- Motors/Generators
- Pumps
- Gearboxes
- Rollers
- Experimental
- Fans/Cooling Towers
- Bearing Housings
- Compressors



#### OPERATING SPECIFICATIONS

##### Dynamic

Sensitivity @ 100 Hz, ± 10%	100 mV/g - 51 mV (m/s <sup>2</sup> )
Frequency Range ± 5%	.5 Hz - 10 kHz
Frequency Range ± 10%	.4 Hz - 12 kHz
Frequency Range ± 3 dB	.2 Hz - 20 kHz
Turn-On Time (2% of Final Bias)	< 0.5 Seconds
Amplitude Range	± 75 g-pk
Mounted Resonance (nominal)	40 kHz
Transverse Sensitivity	< 5%
Amplitude Linearity	< 1%

##### Electrical

Noise Broadband 2.5 Hz to 20 kHz	350 µg (rms)
Noise Spectral 10 Hz	30 µg/√Hz
Noise Spectral 100 Hz	8 µg/√Hz
Noise Spectral 1000 Hz	3 µg/√Hz
Output Impedance	100 Ω
Isolation	Isolated
Bias Volts (nominal)	12 VDC
Power Requirements	24-30 VDC
Current Regulating Diode	2-6 mA cc

##### Environmental

Temperature Range	-40 to 250°F / -40 to 121°C
Base Strain (Nominal)	0.001 g peak/µstrain
Shock Limit	5000 g-pk

##### Physical

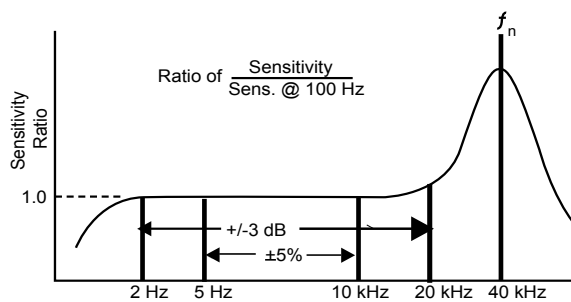
Dimensions	1.78" h x .875" (hex)
Weight	.68 grams
Case Material	Type 316L Stainless Steel
Design	Piezoelectric/Compression
Seal	Welded/Hermetic
Mounting	1/4-28 Stud
Mounting Torque	35 in-lb (3.9 N-m)

#### ORDERING INFORMATION AND ACCESSORIES

Model 6050, Mfr. Part No. 9357242

##### Sensors include

- NIST Traceable Calibration
- 1/4-28 Mounting Stud
- User Manual
- 1-Year Warranty



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