

PRODUCT DATA SHEET

Model 6051C

Industrial High-Temperature Accelerometer



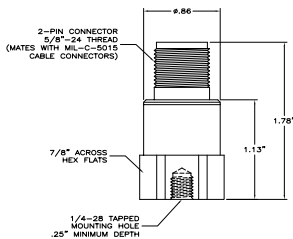
DESCRIPTION AND FEATURES

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

- 100 mV/g
- Welded Hermetic Seal
- 2-Pin MIL Style Connector
- Use on surface temperature of up to 350°F with Thermal Isolator in room temperature ambient air.

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
Frequency Range ± 5%	5 Hz - 7 kHz
Frequency Range ± 10%	.4 Hz - 10 kHz
Frequency Range ± 3 dB	.2 Hz - 15 kHz
Turn-On Time	< 0.5 Seconds
Amplitude Range	± 75 g-pk - Above 250°F: ± 40 g-pk
Mounted Resonance (nominal)	40 kHz
Transverse Sensitivity (nominal)	< 5%
Amplitude Linearity	< 1%

Electrical (@ Room Temperature)

Noise Broadband 2.5 Hz to 20 kHz	350 µg
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 300°F / -40 to 150°C
Base Strain (Nominal)	0.001 g peak/µstrain
Shock Limit	5,000 g Peak

Physical

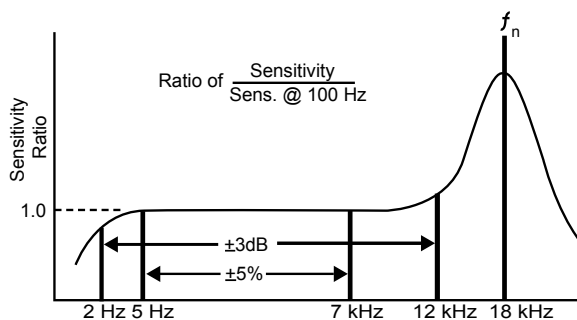
Dimensions	1.78" h x .875" (hex)
Weight	.68 grams
Case Material	Type 316L Stainless Steel
Design	Piezoelectric/Compression
Seal	Welded/Hermetic
Mounting	1/4-28 Stud
Mounting Torque	35 in-lb (3.9 N-m)

ORDERING INFORMATION AND ACCESSORIES

Model 6051C, Mfr. Part No. 6051C-5015

Sensors include

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



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