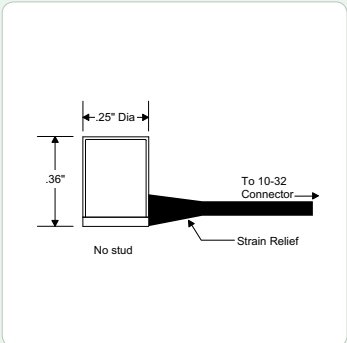


Model 9001A

Miniature Premium 8.5 mV/g Accelerometer



DESCRIPTION AND FEATURES

The subminiature 9000 series accelerometers feature internal signal conditioning, very low noise and an integral coaxial strain-relieved cable.

They are designed for applications where transducer size must be minimized and a high signal-to-noise ratio must be maintained. These sensors are installed with adhesive (no stud included).

- 8.5 mV/g
- Sub-Miniature Size
- Lightweight
- Int. Signal Conditioning
- Broad Frequency Range
- Intg. Coaxial Strain-Relieved Cable with 10-32 or BNC Connector

APPLICATIONS

- Dry Industrial
- Motors/Generators
- Pumps
- Gears/Bearings
- Rollers
- Experimental
- Aerospace
- Military
- Machining Centers

OPERATING SPECIFICATIONS

Dynamic

Sensitivity @ 100 Hz, ± 5%	8.5 mV/g - 0.9 mV/(m/s ²)
Frequency Range ± 5%	.3 Hz - 20 kHz
Frequency Range ± 10%	.2 Hz - 25 kHz
Frequency Range ± 3 dB	.1 Hz - 30 kHz
Turn-On Time	≤ 5 Seconds
Amplitude Range	± 550 g
Mounted Resonance	> 80 kHz
Transverse Sensitivity	< 5%
Amplitude Linearity	< 1%

Electrical

Noise Broadband 2.5 Hz to 20 kHz	1500 µg RMS
Noise Spectral 10 Hz	100 µg/√Hz
Noise Spectral 100 Hz	25 µg/√Hz
Noise Spectral 1000 Hz	10 µg/√Hz
Output Impedance (nominal)	1000 Ω
Isolation	Case Ground
Bias Volts	7 VDC
Power Requirements	15-30 VDC
Current Regulating Diode	2-6 mA cc

Environmental

Temperature Range	-40 to 250°F / -40 to 121°C
Base Strain (NOM)	0.005 g peak/µstrain
Thermal Shock	9.7 g/°C
Shock Limit	5,000 g Peak

Physical

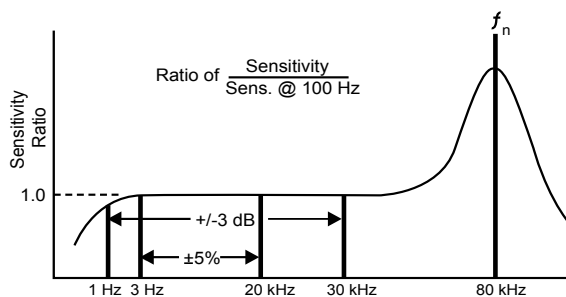
Dimensions	0.36" h x 0.25" Diameter (0.9 x 0.6 cm)
Weight	0.027 oz / 0.75 grams
Case Material	Titanium
Design	Compression
Seal	Epoxy
Mounting	Adhesive (No Stud)
Cable/Connector	Integral Cable to 10-32

ORDERING INFORMATION AND ACCESSORIES

Model 9001A, Mfr. Part No. 9353031
 Model 9001A-BNC (w /BNC connector)
 Mfr. Part No. 9001A-BNC-5015

Sensors include

- NIST Traceable Calibration
- Integral 6' Cable Assembly
- User Manual
- 1-Year Warranty



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