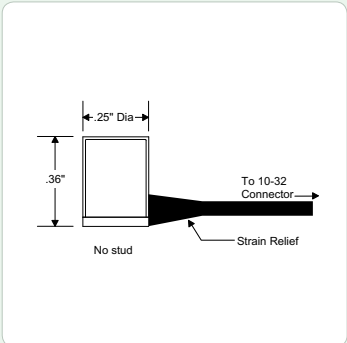


Models 9002A

Miniature 100 mV/g Accelerometer



DESCRIPTION AND FEATURES

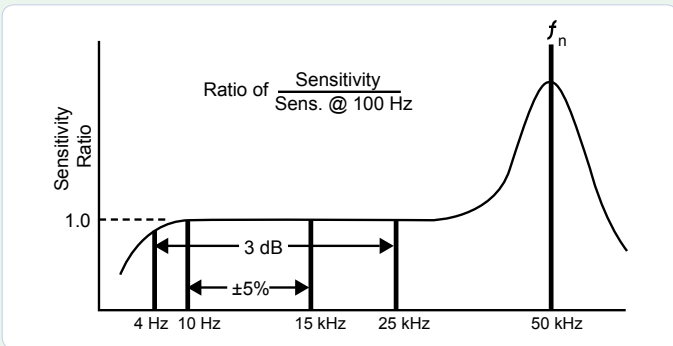
The subminiature 9000 series accelerometers feature internal signal conditioning, very low noise and an integral coaxial strain-relieved cable.

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).

- 100 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, $\pm 20\%$ 100 mV/g - 10.2 mV/(m/s²)
 Frequency Range $\pm 5\%$ 10 Hz - 15 kHz
 Frequency Range $\pm 10\%$ 8 Hz - 18 kHz
 Frequency Range ± 3 dB 4 Hz - 25 kHz
 Turn-On Time ≤ 5 Seconds
 Amplitude Range ± 50 g
 Mounted Resonance > 50 kHz
 Transverse Sensitivity $< 5\%$

Electrical

Noise Broadband 2.5 Hz to 25 kHz 550 μ g RMS
 Noise Spectral 10 Hz 130 μ g/vHz
 Noise Spectral 100 Hz 10 μ g/vHz
 Noise Spectral 1000 Hz 3 μ g/vHz
 Output Impedance (nominal) 1000 Ω
 Isolation Case Ground
 Bias Volts 10 VDC
 Power Requirements 24-30 VDC
 Current Regulating Diode 2-6 mA cc

Environmental

Temperature Range -40 to 230°F / -40 to 110°C
 Base Strain (NOM) 0.005 g peak/ μ strain
 Shock Limit 5,000 g Peak

Physical

Dimensions36" h x .25" Diameter (.91 x .64 cm)
 Weight03 oz / .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 9002A, Mfr. Part No. 9002A-5015

Model 9002A-BNC (w/BNC connector)

Mfr. Part No. 9002A-BNC-5015

Sensors include

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

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