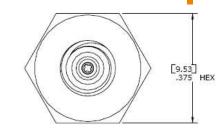
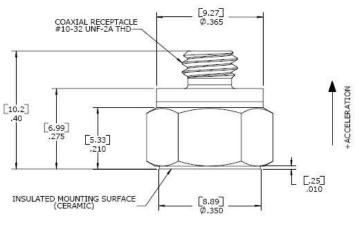
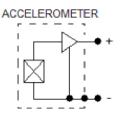




DIMENSIONS







MODEL 7108A ACCELEROMETER

SPECIFICATIONS

- IEPE Accelerometer
- Wide Bandwidth to 10kHz
- ◆ 10-32 Top Connector
- Miniature, Adhesive Mount

The Model 7108A is a miniature adhesive mount IEPE accelerometer available in $\pm 50g$ to $\pm 500g$ dynamic ranges. The accelerometer features a welded hermetic stainless steel construction with a 10-32 top connector. The model 7108A incorporates a stable piezo-ceramic crystal in annular shear mode, installed with a compression ring that eliminates the usage of epoxies that can affect long term stability. The accelerometer has an operating range of - 55° C to +125°C and a flat frequency response to 10kHz.

FEATURES

- ▶ ±50g to ±500g Dynamic Range
- Wide bandwidth up to 10kHz
- Welded Stainless Steel
- Hermetically Sealed
- ◆ -55°C to +125°C Operating Range
- Annular Shear Mode
- Isolated from Mounting Surface

APPLICATIONS

- Vibration & Shock Monitoring
- Laboratory Testing
- Modal Applications
- High Frequency Applications

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

| | | | Notes |
|------------|--|---|---|
| ±50 | ±500 | | |
| 100 | 10 | | ±10% |
| 1-8000 | 1-8000 | | ±10% |
| 0.5-10000 | 0.5-10000 | | ±2dB |
| 32000 | 32000 | | |
| ±1 | ±1 | | |
| <5 | <5 | | |
| 5000 | 5000 | | |
| | | | |
| 18 to 30 | 18 to 30 | | |
| 2 to 10 | 2 to 10 | | |
| 8 to 12 | 8 to 12 | | Room Temperature |
| 6 to 14 | 6 to 14 | | -55 to +125°C |
| <100 | <100 | | |
| ±5 | ±5 | | |
| 0.0004 | 0.0008 | | Broadband 1Hz to 10kHz |
| 0.8 to 1.2 | | | |
| | | | |
| | 100 1-8000 0.5-10000 32000 ±1 <5 5000 18 to 30 2 to 10 8 to 12 6 to 14 <100 ±5 0.0004 | 100 10 1-8000 1-8000 0.5-10000 0.5-10000 32000 32000 ±1 ±1 <5 <5 5000 5000 18 to 30 18 to 30 2 to 10 2 to 10 8 to 12 8 to 12 6 to 14 6 to 14 <100 <100 ±5 ±5 0.0004 0.0008 | 100 10 1-8000 1-8000 0.5-10000 0.5-10000 32000 32000 ±1 ±1 <5 <5 5000 5000 18 to 30 18 to 30 2 to 10 2 to 10 8 to 12 8 to 12 6 to 14 6 to 14 <100 <100 ±5 ±5 0.0004 0.0008 |

ENVIRONMENTAL

Temperature Response (%) See Typical Temperature Response Curve

Operating Temperature (°C) -55 to +125 Storage Temperature (°C) -55 to +125 Humidity Hermetically Sealed

PHYSICAL

Sensing Element Ceramic (shear mode)
Case Material Stainless Steel

Electrical Connector 10-32 Coaxial Receptacle

Weight (grams) 3.6
Mounting Adhesive

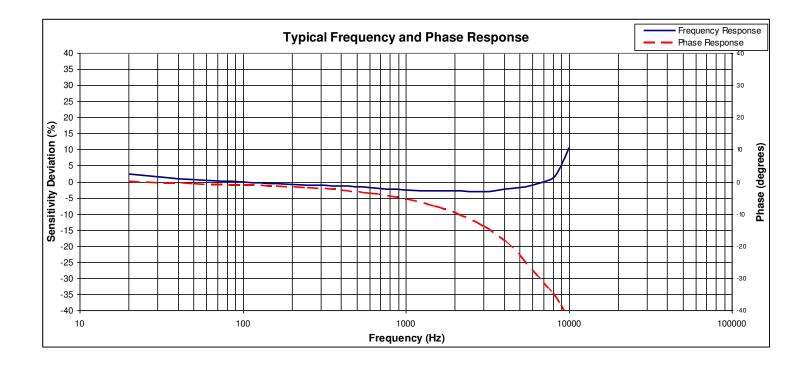
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit

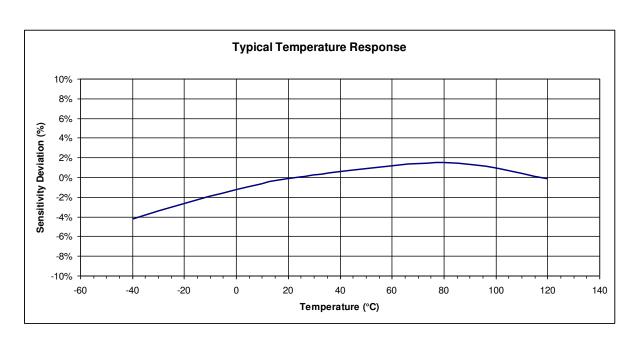
Optional accessories: 310-XXX Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard)

314-XXX Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard)

161A 4-Channel PE & IEPE Signal Conditioner

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MODEL 7108A ACCELEROMETER

ORDERING INFORMATION

PART NUMBERING Model Number+Range

7108A-GGGG I I_____ Range (0050 is 50g)

Example: 7108A-0050 Model 7108A, 50g