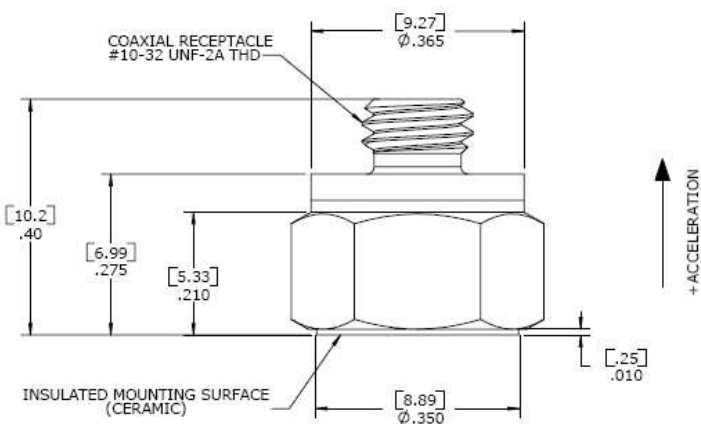
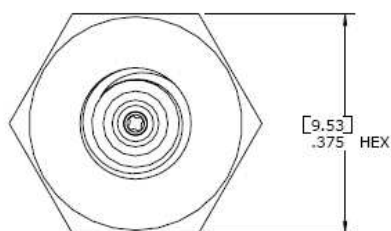
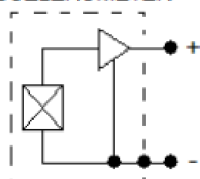




DIMENSIONS



ACCELEROMETER



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 $+125^{\circ}\text{C}$ and a flat frequency response to 10kHz.

FEATURES

- ◆ $\pm 50g$ to $\pm 500g$ Dynamic Range
- ◆ Wide bandwidth up to 10kHz
- ◆ Welded Stainless Steel
- ◆ Hermetically Sealed
- ◆ -55°C to $+125^{\circ}\text{C}$ 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.

Parameters

DYNAMIC

			Notes
Range (g)	±50	±500	
Sensitivity (mV/g)	100	10	±10%
Frequency Response (Hz)	1-8000	1-8000	±10%
Frequency Response (Hz)	0.5-10000	0.5-10000	±2dB
Natural Frequency (Hz)	32000	32000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	<5	<5	
Shock Limit (g)	5000	5000	

ELECTRICAL

Compliance Voltage (Vdc)	18 to 30	18 to 30	
Excitation Current (mA)	2 to 10	2 to 10	
Bias Voltage (Vdc)	8 to 12	8 to 12	Room Temperature
Bias Voltage (Vdc)	6 to 14	6 to 14	-55 to +125°C
Output Impedance (Ω)	<100	<100	
Full Scale Output Voltage (V)	±5	±5	
Residual Noise (g RMS)	0.0004	0.0008	Broadband 1Hz to 10kHz
Discharge Time Constant (sec)	0.8 to 1.2		
Ground Isolation	Isolated from Mounting Surface		

ENVIRONMENTAL

Temperature Response (%)	See Typical Temperature Response Curve
Operating Temperature (°C)	-55 to +125
Storage Temperature (°C)	-55 to +125
Humidity	Hermetically Sealed

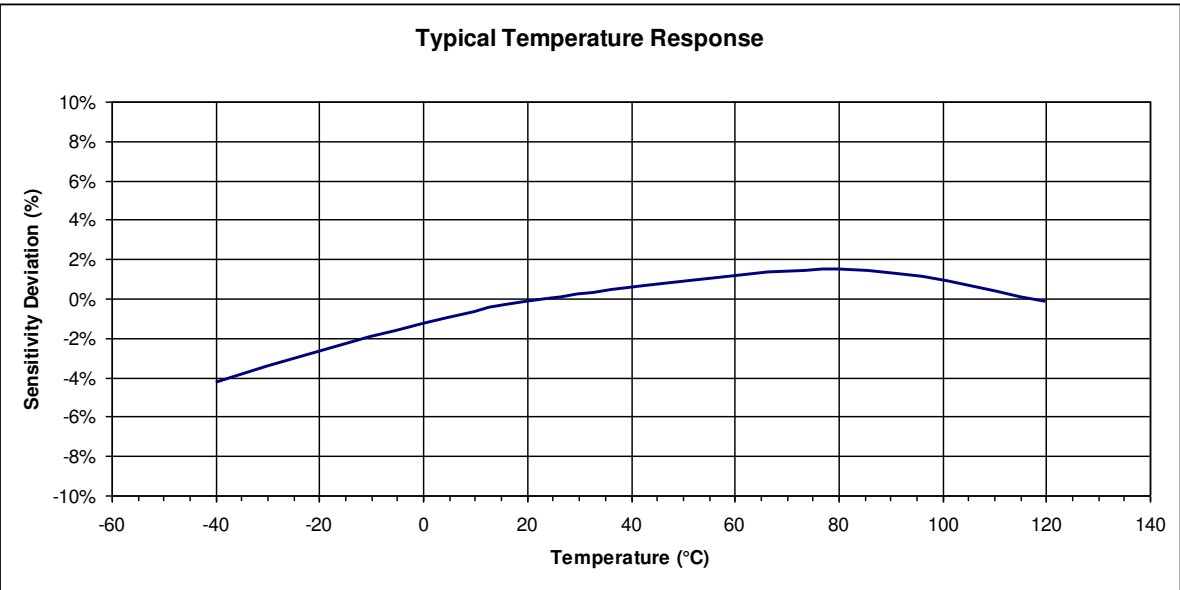
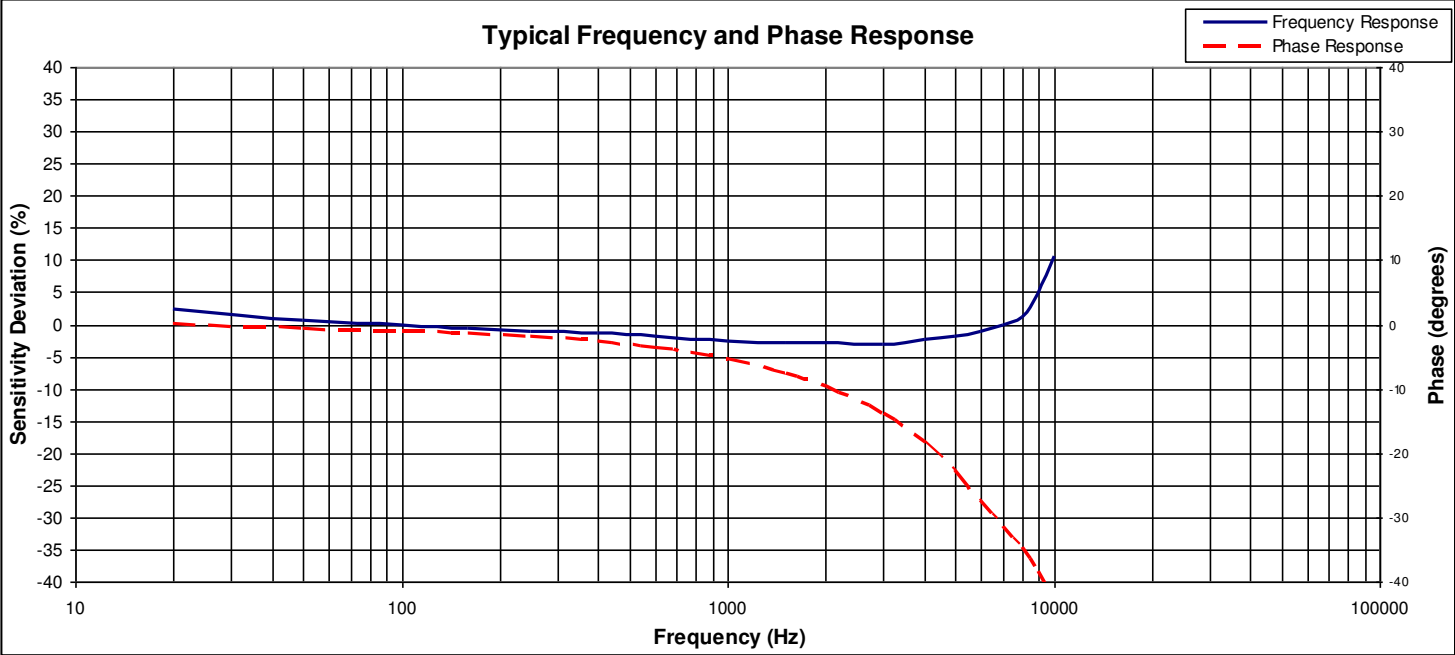
PHYSICAL

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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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7108A-GGGG

|

| _____ Range (0050 is 50g)

Example: 7108A-0050

Model 7108A, 50g

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