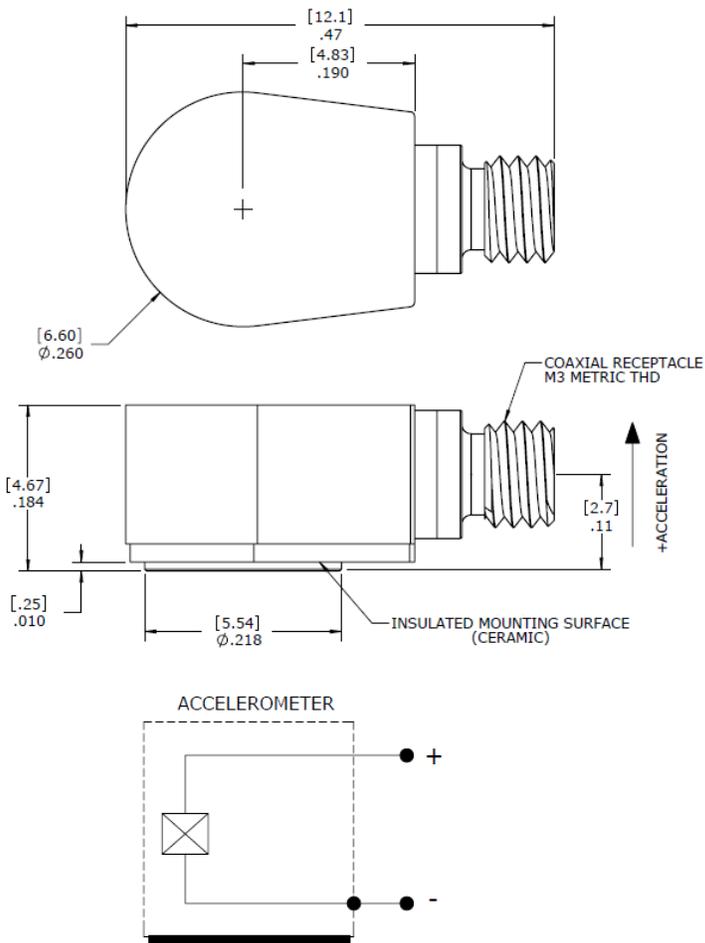




DIMENSIONS



MODEL 7502A ACCELEROMETER

SPECIFICATIONS

- +260°C Charge Output Accelerometer
- 1.8pC/g output, 14kHz Bandwidth
- Hermetically Sealed
- Miniature, Lightweight (0.8gm)

The Model 7502A is a miniature piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements. The accelerometer incorporates an annular shear mode crystal that provides stable thermal response up to +260°C. The model 7502A is hermetically sealed and features a nominal charge output of 1.8pC/g. The miniature and light weight Titanium package renders the accelerometer ideal for applications requiring minimal mass loading.

FEATURES

- ±5000g Dynamic Range
- Wide bandwidth up to 14kHz
- -73°C to +260°C Operating Range
- Adhesive Mount
- Titanium Housing
- Annular Shear Mode
- Isolated Mounting Surface

APPLICATIONS

- Vibration & Shock Monitoring
- High Temp Applications
- Flight Testing
- High Frequency Applications
- Small Structures Monitoring

PERFORMANCE SPECIFICATIONS

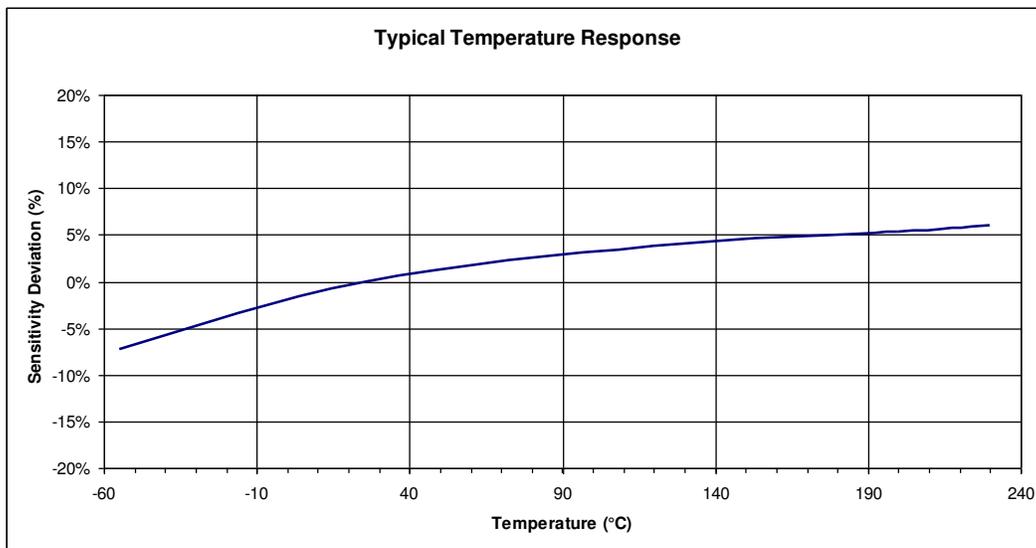
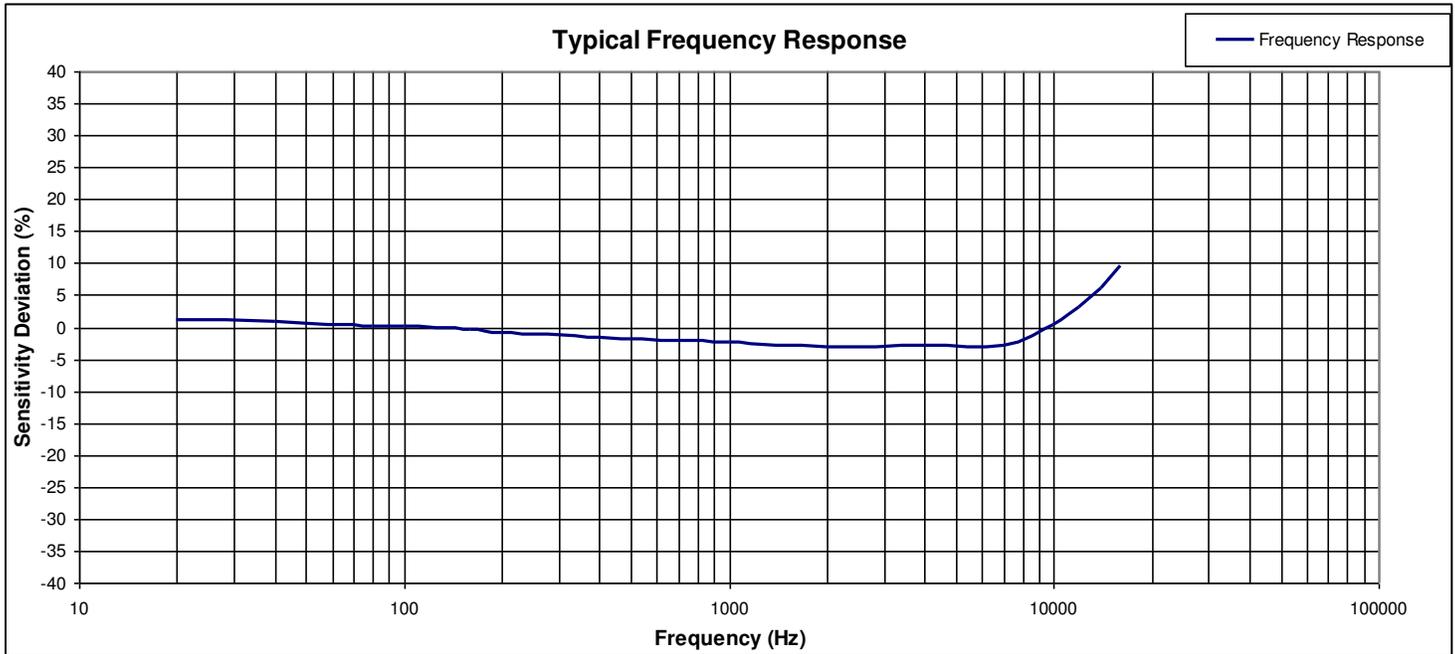
All values are typical at +24°C, 80Hz unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters		Notes
DYNAMIC		
Sensitivity (pC/g)	1.8	Typical
Sensitivity (pC/g)	1.0	Minimum
Frequency Response (Hz) ²	1-10000	±10%
Frequency Response (Hz) ²	0.1-14000	±2dB
Natural Frequency (Hz)	48000	
Non-Linearity (%FSO)	±1/1000g	
Transverse Sensitivity (%)	<5	
Dynamic Range (g) ¹	±5000	
Shock Limit (g)	10000	
ELECTRICAL		
Capacitance (pF)	240	Nominal
Insulation Resistance (MΩ)	>100	@100Vdc
Ground Isolation	Isolated from Mounting Surface	
ENVIRONMENTAL		
Temperature Response (%)	See Typical Temperature Response Curve	
Operating Temperature (°C)	-73 to +260	
Storage Temperature (°C)	-73 to +260	
Humidity	Hermetically Sealed	
PHYSICAL		
Sensing Element	Ceramic (shear mode)	
Case Material	Titanium	
Electrical Connector	M3 Coaxial Receptacle	
Weight (grams)	0.8	
Mounting	Adhesive	

¹ Operating range over which the accelerometer meets the linearity specifications
² Low-end response of the accelerometer is a function of its associated electronics.

Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit
Optional accessories:	321-XXX	Low Noise Cable Assembly, M3 to 10-32 (XXX designates length in inches, 10ft standard)
	130	In-Line Charge Converter
	161A	4-Channel PE & IEPE Signal Conditioner, Bench Top
	AC-A04839	Triaxial Mounting Block

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ORDERING INFORMATION

PART NUMBERING Model Number

7502A

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