AUTHORIZED DISTRIBUTOR

MODEL 7120A ACCELEROMETER

SPECIFICATIONS

- **IEPE Modal Accelerometer**
- **Wide Bandwidth to 10kHz**
- **10-32 Side Connector**
- **Miniature Cube**

The Model 7120A is a high performance IEPE accelerometer designed for modal applications. The accelerometer is available in ±50g to ±1000g dynamic ranges and offers a flat frequency response to >6kHz. The model 7120A is designed for adhesive mounting and features a hermetic welded Titanium construction with a side mount connector. The standard operating temperature range extends from -55°C to +100°C.

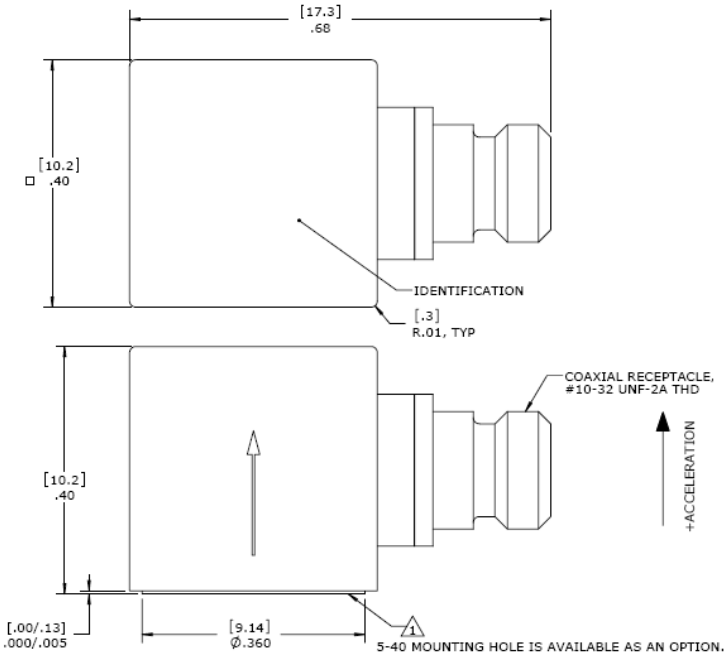
FEATURES

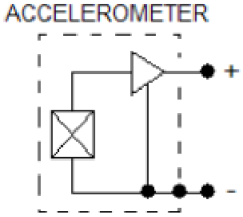
- ±50g to ±1000g Dynamic Range
- Modal Testing
- Welded Construction, Titanium
- Hermetically Sealed
- Annular Shear Mode
- Stable Temperature Response
- TEDS Option

APPLICATIONS

- Modal Testing
- Vibration & Shock Monitoring
- Laboratory Testing
- General Purpose Usage

DIMENSIONS





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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	±1000	
Sensitivity (mV/g)	100	10	5	
Frequency Response (Hz)	0.5-4000	0.5-5000	0.5-6000	±5%
Frequency Response (Hz)	0.3-6000	0.3-7000	0.3-8000	±1dB
Natural Frequency (Hz)	37000	37000	42000	
Phase Response (Hz)	1-3000	1-3000	1-3000	±5%
Non-Linearity (%FSO)	±1	±1	±1	
Transverse Sensitivity (%)	<5	<5	<5	
Shock Limit (g)	10000	10000	10000	
ELECTRICAL				
Compliance Voltage (Vdc)	18 to 30	18 to 30	18 to 30	
Excitation Current (mA)	2 to 10	2 to 10	2 to 10	
Bias Voltage (Vdc)	8 to 12	8 to 12	8 to 12	Room Temperature
Bias Voltage (Vdc)	6 to 13	6 to 13	6 to 13	-55 to +125°C
Output Impedance (Ω)	<100	<100	<100	
Full Scale Output Voltage (V)	±5	±5	±5	
Residual Noise (g RMS)	0.0004	0.0008	0.0012	Broadband 1Hz to 10kHz
Discharge Time Constant (sec)	0.8 to 1.2			
Grounding	Case Grounded			
ENVIRONMENTAL				
Temperature Response (%)	See Typical Temperature Response Curve			
Operating Temperature (°C)	-55 to +100			
Storage Temperature (°C)	-55 to +100			
Humidity	Hermetically Sealed			
PHYSICAL				
Sensing Element	Ceramic (shear mode)			
Case Material	Titanium			
Electrical Connector	10-32 Coaxial Receptacle			
Weight (grams)	4.0			
Mounting	Adhesive			

Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to ±1dB 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)
	116	16 Channel IEPE Signal Conditioner, Rack Mount
	161A	4-Channel PE & IEPE Signal Conditioner, Bench Top

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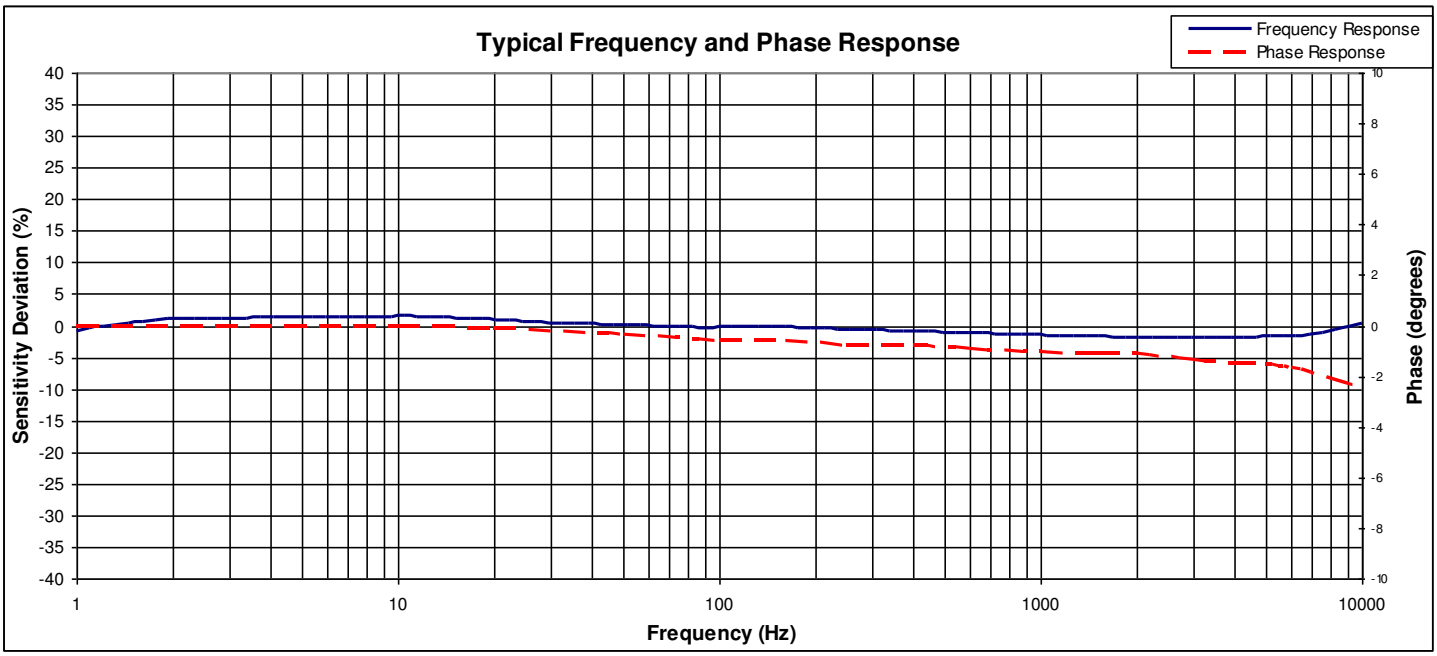

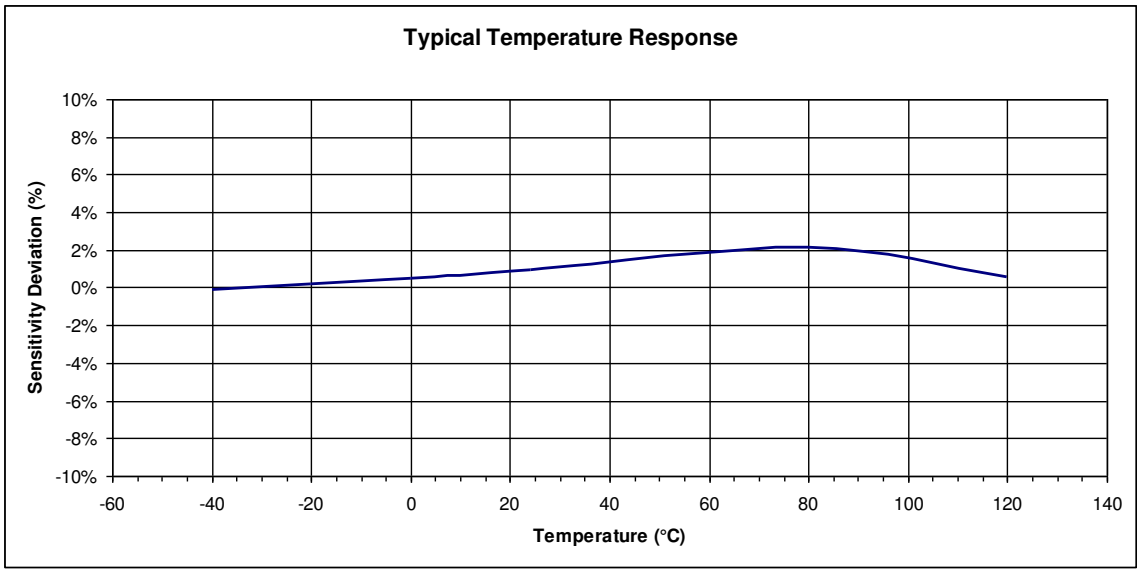

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

7120AT-GGGG-XX
I I I_____ Optional Thread Dash Number
I I_____ Range (0050 is 50g)
I_____ TEDS compliant to IEEE 1451.4 when 'T' option is included

Dash Number	Thread Options
-01	#5-40 UNC-2B

Example: 7120A-0050
Model 7120A, 50g

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