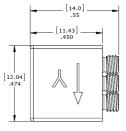


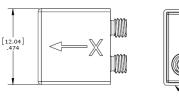


DIMENSIONS

Standard Dimensions ACCELERATION [13.6] .54 [11.02] IDENTIFICATION INFORMATION [11.02] .434 .434 ACCELERATION Z-AXIS 0 [11.02] 434 6 Λ COAXIAL RECEPTACLE M3 THREAD, x3 +ACCELERATION X-AXIS

-03 Isolated Case Dimensions







MODEL 7531A ACCELEROMETER

SPECIFICATIONS

- Triaxial Charge Output Accelerometer
- 1.8pC/g output, 10kHz Bandwidth
- Hermetically Sealed, Titanium
- Adhesively Mounted, Light Weight

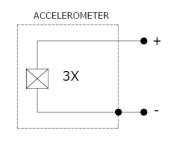
The Model 7531A is an adhesively mounted triaxial charge mode accelerometer with an operating temperature range to +260°C. The accelerometer is designed for high frequency vibration and shock measurements and offers a wide bandwidth to >10kHz with a nominal charge output of 1.8pC/g. The model 7531A incorporates stable high temperature piezo-ceramic crystals in annular shear mode.

FEATURES

- 1.8pC/g Sensitivity
- Wide bandwidth up to >10kHz
- Isolated Case Option
- Hermetically Sealed
- Annular Shear Mode
- -73°C to +260°C Operating Range
- Stable Temperature Response

APPLICATIONS

- Vibration & Shock Monitoring
- High Temp Applications
- Laboratory Testing
- High Frequency Applications
- Gearbox Vibration Monitoring

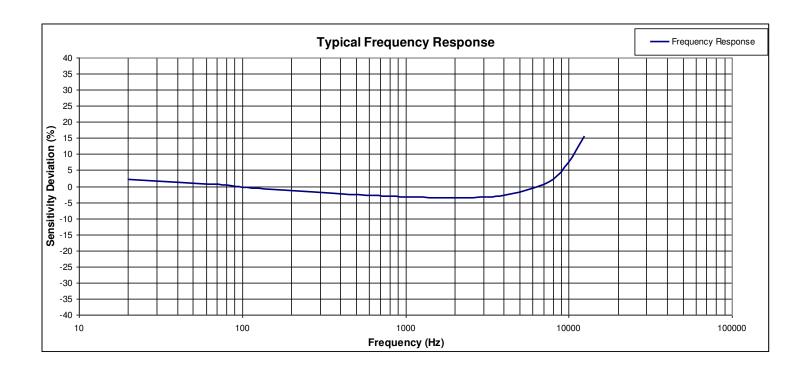


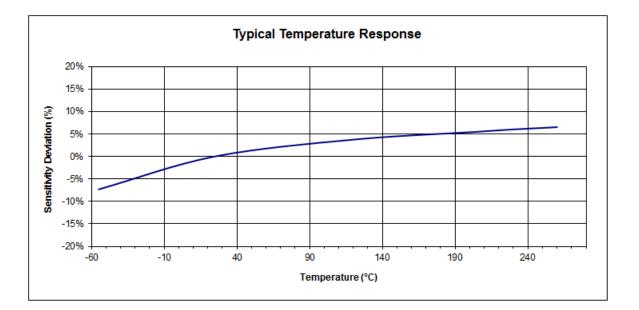
PERFORMANCE SPECIFICATIONS

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 DYNAMIC Sensitivity (pC/g) Sensitivity (pC/g) Frequency Response (Hz) ² Frequency Response (Hz) ² Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Dynamic Range (g) ¹ Shock Limit (g)	1.8 1.0 1-7000 0.2-10000 48000 ±1/1000g <5 ±5000 ±10000		Notes Typical Minimum ±10% ±2dB	
ELECTRICAL Capacitance (pF) Insulation Resistance (MΩ) Grounding	240 >100 Case Ground	ded	Nominal @100Vdc	
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-73 to +260 (-73 to +260	Temperature Response Curve (-40 to 125 for -03 Isolated Case Option) Sealed, IP67		
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting	Titanium M3 Coaxial F 5.3 (6.6 for - Adhesive (St	M3 Coaxial Receptacle 5.3 (6.6 for -03 option) Adhesive (Stud Mount Option)		
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 $\pm 2dB$ Freque	ency Response Limit	
Optional accessories:	321-XXX 130 161A AC-A04025	Cable Assembly, M3 to 10-32 (XXX designates length in inches, In-Line Charge Converter 4-Channel PE & IEPE Signal Conditioner Adhesive Mounting Adaptor (for -02 thread option)	10ft standard)	

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.





ORDERING INFORMATION

PART NUMBERING Model Number

7531A-XX I Optional Dash Number	Dash Number -01 -02 -03	Thread Options M2.5 x 0.45 6g #5-40 UNF-2B Case Isolated
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Example: 7531A Model 7531A, No Option