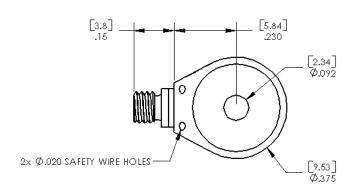


+260°C Charge Output Accelerometer 5.6pC/g output, 15kHz Bandwidth Hermetically Sealed Miniature, Lightweight (2.1gm)

The Model 7501A is a miniature piezoelectric 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 5.6pC/g nominal output. The model 7501A features a hermetically sealed titanium housing and the popular through hole mount configuration.

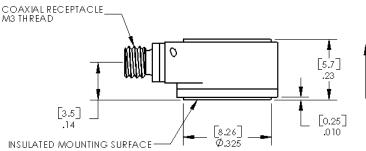


### dimensions



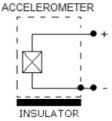


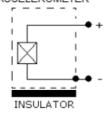
- -73°C to +260°C Operating Range
- Wide bandwidth up to >10kHz
- **Titanium Housing**
- Annular Shear Mode •
- Isolated Mounting Surface •
- **Through Hole Mount** •



#### **APPLICATIONS**

- Vibration & Shock Monitoring .
- **High Temp Applications** •
- Flight Testing .
- **High Frequency Applications** .
- Gearbox Vibration Monitoring





Model 7501A Rev E



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04/15/2011

1

## **Model 7501A Accelerometer**



## performance specifications

All values are typical at +24°C, 100Hz unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

	Parameters <b>DYNAMIC</b> Sensitivity (pC/g) Sensitivity (pC/g) Frequency Response (Hz) <sup>2</sup> Frequency Response (Hz) <sup>2</sup> Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Dynamic Range (g) <sup>1</sup> Shock Limit (g)	5.6 4.0 1-8000 0.5-10000 46000 ±1/1000g <5 ±4000 10000		Notes Typical Minimum ±10% ±2dB
	<b>ELECTRICAL</b> Capacitance (pF) Insulation Resistance (MΩ) Ground Isolation	560 >100 Isolated fro	om Mounting Surface	Nominal @100Vdc
	ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	See Typica -73 to +26 -73 to +26 Hermetica	0	
PHYSICAL         Sensing Element       Ceramic (shear mode)         Case Material       Titanium         Electrical Connector       M3 Coaxial Receptacle         Weight (grams)       2.1         Mounting       Through Hole (#2 insulated cap screw)         Mounting Torque       5 lb-in (0.6 N-m) <sup>1</sup> Operating range over which the accelerometer meets the linearity specifications				
	<ul> <li><sup>2</sup> Low-end response of the accelerometer is a function of its associated electronics.</li> <li>Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit</li> </ul>			
	Supplied accessories:	AC-A03230	1x #2-56 Insulated Mounting Screw Assembly (3/8 inch length)	
	Ontional accessories	221 VVV	Low Naisa Cable Assembly, M2 to 10, 22 (XXX designates length in in	aboo 10ft atondor

 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

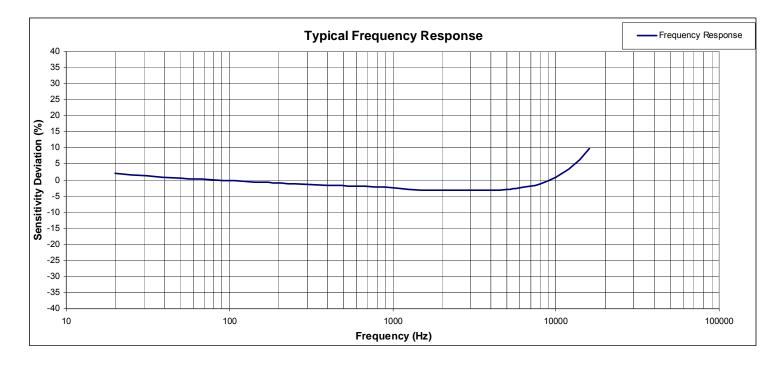
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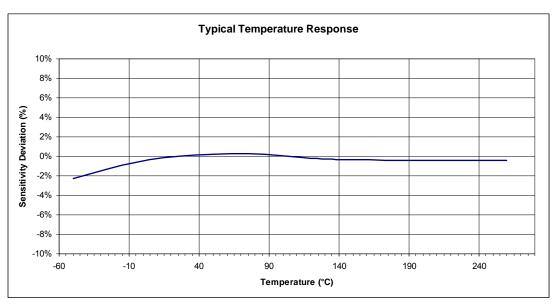




# **Model 7501A Accelerometer**

## performance specifications





### ordering info

PART NUMBERING Model Number

7501A

