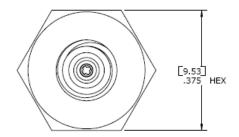


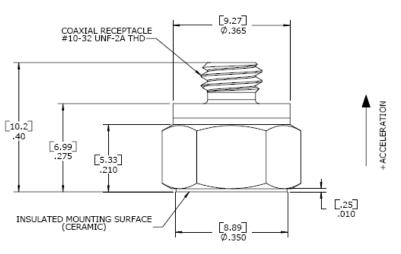
+200°C Charge Output Accelerometer 5.6pC/g Output, 7kHz Bandwidth Hermetically Sealed Miniature, Adhesive Mount

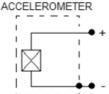
The Model 7508A is a miniature piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements at temperatures up to +200°C. The accelerometer incorporates an annular shear mode crystal installed with a compression ring that eliminates the usage of epoxies that can affect long term stability at elevated temperatures. Featuring a nominal charge output of 5.6pC/g, the model 7508A offers a high signal to noise ratio in a miniature adhesive mount package.



### dimensions





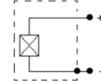


#### **FEATURES**

- Wide bandwidth up to 7kHz
- -73°C to +200°C Operating Range
- Stainless Steel Housing
- Annular Shear Mode .
- Adhesive Mounting .
- Isolated from Mounting Surface

#### **APPLICATIONS**

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



# **Model 7508A 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 1-5000 0.3-7000 32000 ±1/1000g <5 ±4000 10000		Notes Typical Minimum ±10% ±2dB
<b>ELECTRICAL</b> Capacitance (pF) Insulation Resistance (MΩ) Ground Isolation	560 >100 Isolated fre	rom Mounting Surface	Nominal @100Vdc
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-73 to +20 -73 to +20		
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting <sup>1</sup> Operating range over which the <sup>2</sup> Low-end response of the acc	Stainless 3 10-32 Coa 3.6 Adhesive the accelerometer	shear mode) Steel axial Receptacle meets the linearity specifications nction of its associated electronics.	
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to $\pm 2dB$ Frequence	cy Response Limit

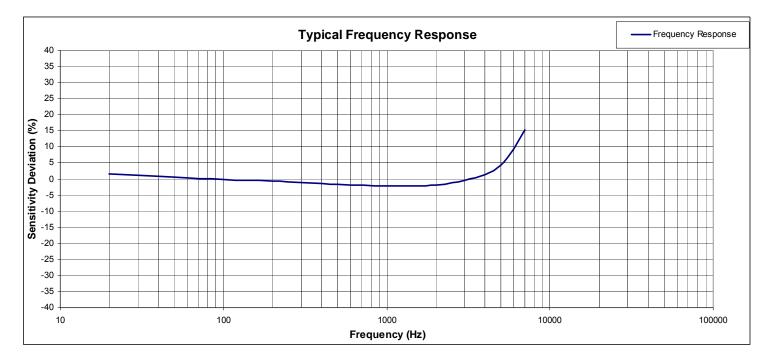
Optional accessories:	320-XXX 324-XXX 130 161A	Low Noise Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard) Low Noise Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard) In-Line Charge Converter 4-Channel PE & IEPE Signal Conditioner
	AIOIA	4-Channel PE & IEPE Signal Conditioner

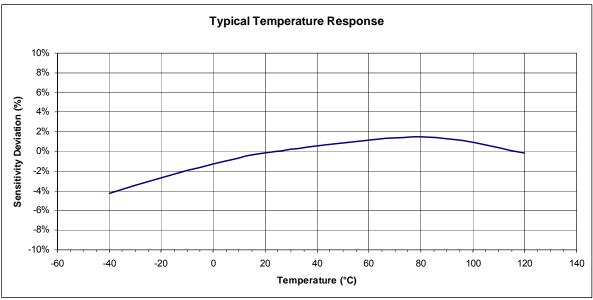
The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, 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.



# **Model 7508A Accelerometer**

## performance specifications





### ordering info

PART NUMBERING Model Number

7508A

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