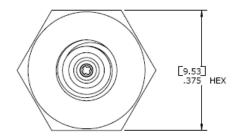


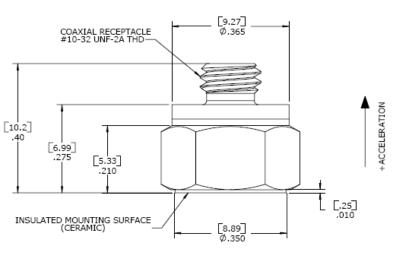
+200°C Charge Output Accelerometer 5.6pC/g Output, 7kHz Bandwidth Hermetically Sealed Miniature, Adhesive Mount

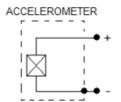
The Model 7508A is a miniature piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements at temperatures up to +200°C. The accelerometer incorporates an annular shear mode crystal installed with a compression ring that eliminates the usage of epoxies that can 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





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Model 7508A Accelerometer

5.6

4.0 1-5000

0.3-7000

32000 ±1/1000g <5 ±4000 10000



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 | |
|------------|--|
| DYNAMIC | |

| DINAMIC |
|--------------------------------------|
| 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) |

ELECTRICAL

Capacitance (pF) Insulation Resistance (M Ω) Ground Isolation

560 >100 Isolated from Mounting Surface

Notes

±10%

±2dB

Typical Minimum

ENVIRONMENTAL

Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity

PHYSICAL

Sensing Element Case Material **Electrical Connector** Weight (grams) Mounting

Calibration supplied:

Optional accessories:

-73 to +200 -73 to +200 Hermetically Sealed

See Typical Temperature Response Curve

In-Line Charge Converter

4-Channel PE & IEPE Signal Conditioner

Stainless Steel 10-32 Coaxial Receptacle 3.6 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.

CS-FREQ-0100

320-XXX

324-XXX 130

161A

Ceramic (shear mode)

Nominal @100Vdc

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.



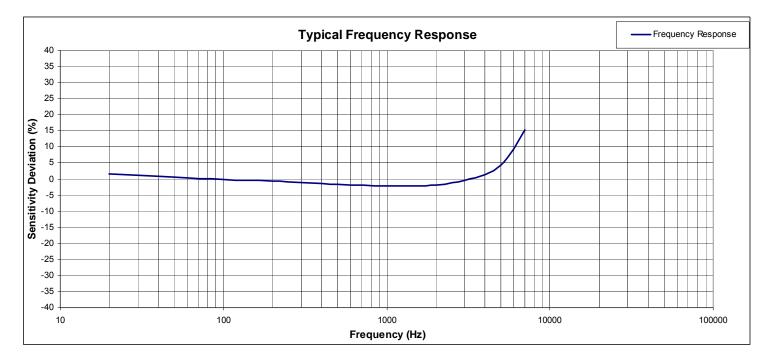
NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit

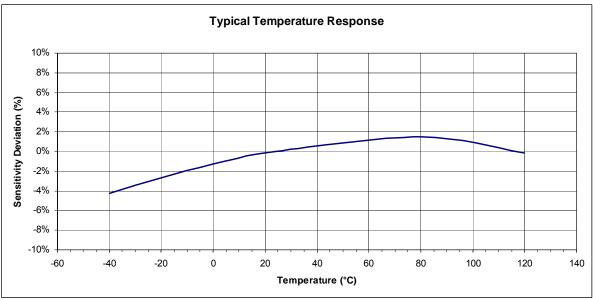
Low Noise Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard) Low Noise Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard)



Model 7508A Accelerometer

performance specifications





ordering info

PART NUMBERING Model Number

7508A

