## SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAţL Model 7508A Accelerometer



+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.

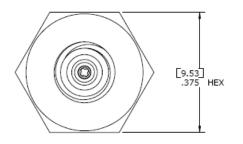
#### **FEATURES**

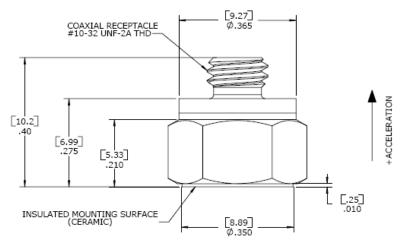
- Wide bandwidth up to 7kHz
- -73°C to +200°C Operating Range
- Stainless Steel Housing
- Annular Shear Mode
- Adhesive Mounting
- Isolated from Mounting Surface

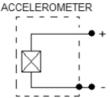
#### **APPLICATIONS**

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

#### dimensions







Model 7508A Rev D www.meas-spec.com SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:szss20@163.com



#### 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 Notes** Sensitivity (pC/g) 5.6 Typical Sensitivity (pC/g) Minimum 4.0 Frequency Response (Hz) 2 1-5000 ±10% Frequency Response (Hz) 2 0.3-7000 ±2dB

Natural Frequency (Hz) 32000 Non-Linearity (%FSO) ±1/1000g Transverse Sensitivity (%) <5 Dynamic Range (g) ±4000 Shock Limit (g) 10000

**ELECTRICAL** 

Capacitance (pF) 560 Nominal Insulation Resistance (MΩ) >100 @100Vdc

Ground Isolation Isolated from Mounting Surface

**ENVIRONMENTAL** 

See Typical Temperature Response Curve Temperature Response (%)

Operating Temperature (°C) -73 to +200 Storage Temperature (°C) -73 to +200

Humidity Hermetically Sealed

**PHYSICAL** 

Sensing Element Ceramic (shear mode) Case Material Stainless Steel

**Electrical Connector** 10-32 Coaxial Receptacle

Weight (grams) 3.6 Mounting Adhesive

<sup>1</sup> Operating range over which the accelerometer meets the linearity specifications

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit

Optional accessories: 320-XXX 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) 324-XXX

130 In-Line Charge Converter

161 Three Channel PE & IEPE Signal Conditioner

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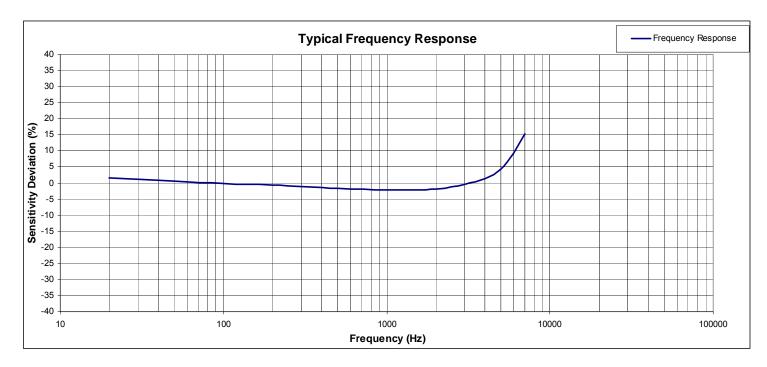
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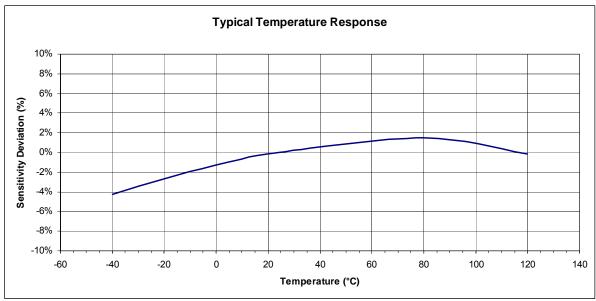
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<sup>&</sup>lt;sup>2</sup> Low-end response of the accelerometer is a function of its associated electronics.

# measurement 82 E-MAJLpsgs620 163 t cont 5

## performance specifications





### ordering info

PART NUMBERING Model Number

7508A

949-716-5377