Model 7530A Accelerometer

Triaxial Charge Output Accelerometer +200°C Temperature Range Hermetically Sealed 5.6pC/g Charge Output

The Model 7530A is a triaxial

piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements. The accelerometer incorporates three independent annular shear mode crystal assemblies installed with a compression ring that eliminates the usage of epoxies that can affect long term stability at elevated temperatures. The annular shear crystals also provide a stable thermal response up to +200°C and a nominal charge output of 5.6pC/g which offers optimum signal to noise ratio.

FEATURES

- -73°C to +200°C Operating Range
- Wide bandwidth up to 6kHz
- Isolated Aluminum Housing
- Annular Shear Mode Crystals
- Independent Channels
- Stable Temperature Response

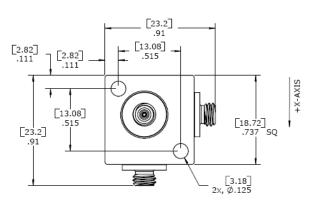
APPLICATIONS

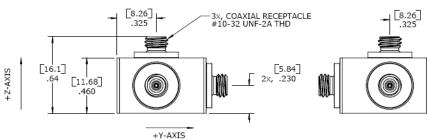
- Vibration & Shock Monitoring
- High Temp Applications
- Triaxial Applications
- High Frequency Monitoring
- General Purpose Usage



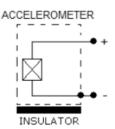


dimensions





SCHEMATIC (EACH CHANNEL)



广东省深圳市南山区创业路恰海广场东座2407 邮编:518000 电话:+86 755 2641 9890 传真:+86 755 2641 9680 深圳市亿为测控电子有限公司

Model 7530A 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

DYNAMIC Notes Sensitivity (pC/g) 5.6 Typical Minimum Sensitivity (pC/g) 4.0 Frequency Response (Hz) 2 1-4000 ±10% Frequency Response (Hz) 2 0.3-6000 ±2dB

32000 Natural Frequency (Hz) 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 by Aluminum Case

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 Hard Anodized Aluminum **Electrical Connector** 10-32 Coaxial Receptacle

Weight (grams)

Mounting 2x #4 or M3 Screws Mounting Torque 6 lb-in (0.7 N-m)

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 ±2dB Frequency Response Limit

Supplied accessories: 2x #4-40 (5/8 length) Socket Head Cap Screw and Washer

Optional accessories: 320-XXX Low Noise Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard)

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

130 In-Line Charge Converter

161A 4-Channel PE & IEPE Signal Conditioner

ordering info

PART NUMBERING Model Number

传真: +86 755 2641 9680

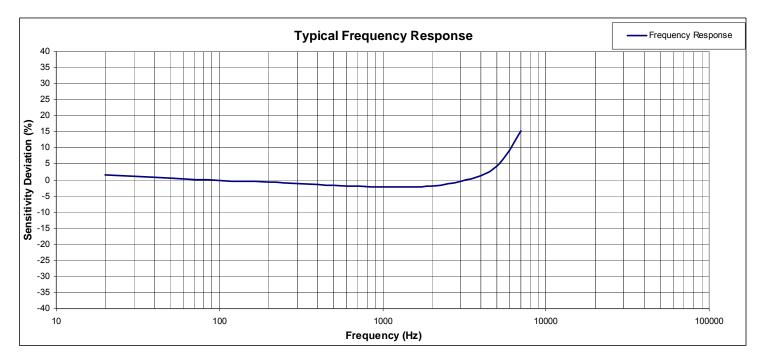
7530A

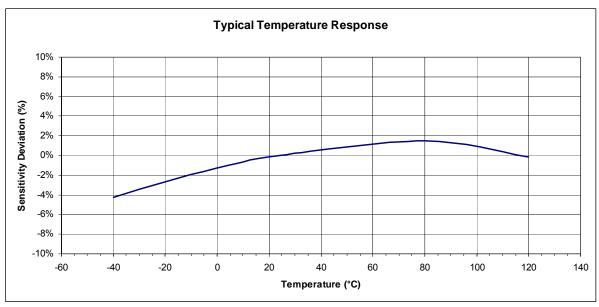
电话: +86 755 2641 9890

深圳市亿为测控电子有限公司 广东省深圳市南山区创业路怡海广场东座2407邮编:518000 www.bill-well.com

Model 7530A Accelerometer

performance specifications





联系方式



电子邮箱:sales@bill-well.com