IEPE Modal Accelerometer Wide Bandwidth to 10kHz 10-32 Side Connector Miniature Cube

The Model 7120A is a high

performance IEPE accelerometer designed for modal applications. The accelerometer is available in ±50g to ±500g dynamic ranges and offers a flat frequency response to >6kHz. The model 7120A is designed for adhesive mounting and features a hermetic welded Titanium construction with a side mount connector. The standard operating temperature range extends from -55°C to +100°C.

FEATURES

- ±50g to ±500g Dynamic Range
- Modal Testing
- Welded Construction, Titanium
- Hermetically Sealed
- Annular Shear Mode
- Stable Temperature Response
- TEDS Option

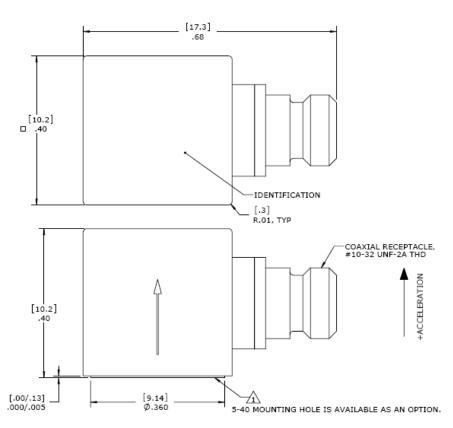
APPLICATIONS

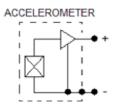
- Modal Testing
- Vibration & Shock Monitoring
- Laboratory Testing
- General Purpose Usage





dimensions





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 深圳市亿为测控电子有限公司

电话:+86 755 2641 9890 传真:+86 755 2641 9680

Model 7120A Accelerometer

performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation 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 Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Phase Response (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) | ±50 100 0.5-4000 0.3-6000 37000 1-3000 ±1 <5 10000 | ±500 10 0.5-5000 0.3-7000 37000 1-3000 ±1 <5 10000 | #5% ±1dB ±5% |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (V) Residual Noise (g RMS) Discharge Time Constant (see Grounding | 0.0004 | 18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 0.0008 | Room Temperature -55 to +125°C Broadband 1Hz to 10kHz |
| ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity | See Typica -55 to +10 -55 to +10 Hermetica | 0 | |
| PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting | Titanium ` | shear mode) xial Receptacle | |
| Calibration supplied: | CS-FREQ-0100 | NIST Traceable Amplitude Calibration from 20Hz to ± 1 dB Frequence | y Response Limit |
| Optional accessories: | 310-XXX 314-XXX 116 | Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard) Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard) 16 Channel IEPE Signal Conditioner, Rack Mount | |

ordering info

Three Channel PE & IEPE Signal Conditioner, Bench Top

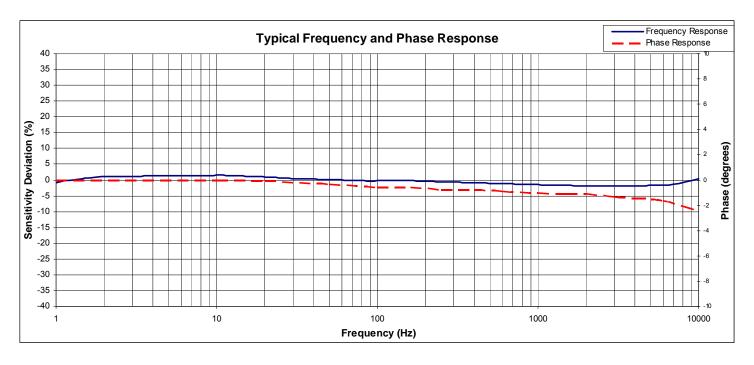
| PART NUMBERING | Model Number+Range | | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| | Optional Thread Dash Number Range (0050 is 50g) S compliant to IEEE 1451.4 when 'T' option is included | Dash Number -01 | Thread Options #5-40 UNC-2B |
| Example: 7120A-0050 Model 7120 | | | |

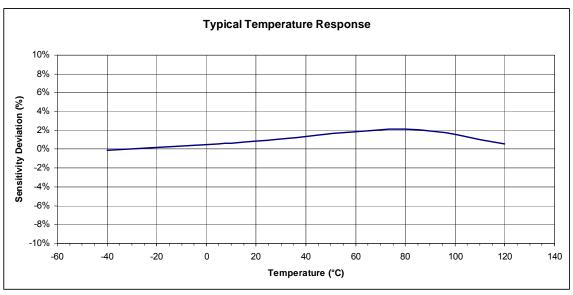
广东省深圳市南山区创业路恰海广场东座2407 邮编:518000 电话:+86 755 2641 9890 传真:+86 755 2641 9680

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联系方式



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

电子邮箱:sales@bill-well.com