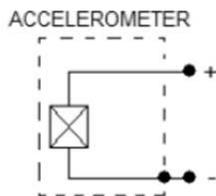
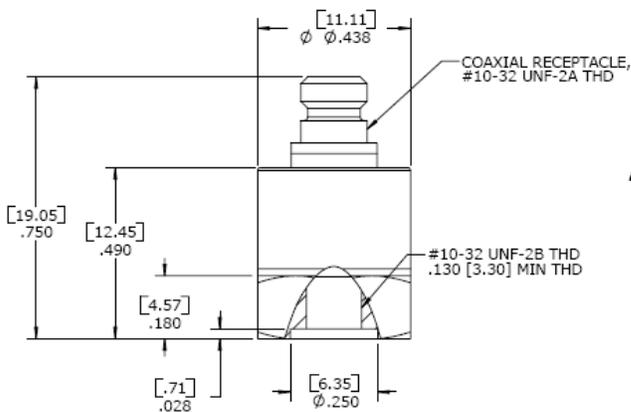
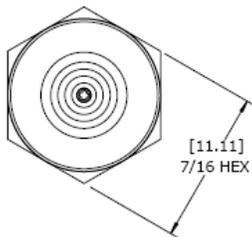




DIMENSIONS



MODEL 7505A ACCELEROMETER

SPECIFICATIONS

- +260°C Charge Output Accelerometer
- 5.6pC/g output, 10kHz Bandwidth
- Hermetically Sealed
- Stud Mount, Top Connector

The Model 7505A is a stud mounted piezoelectric charge mode accelerometer with an operating temperature range to +260°C. The accelerometer is designed for high frequency vibration and shock measurements and offers a wide bandwidth to >10kHz and a nominal charge output of 5.6pC/g. The model 7505A features a hermetically sealed stainless steel housing and a #10-32 stud mount configuration.

FEATURES

- -73°C to +260°C Operating Range
- Wide bandwidth up to >10kHz
- Stainless Steel Housing
- Annular Shear Mode
- Case Grounded
- 10-32 Top Connector

APPLICATIONS

- Vibration & Shock Monitoring
- High Temp Applications
- Laboratory Testing
- High Frequency Applications
- Gearbox Vibration Monitoring

PERFORMANCE SPECIFICATIONS

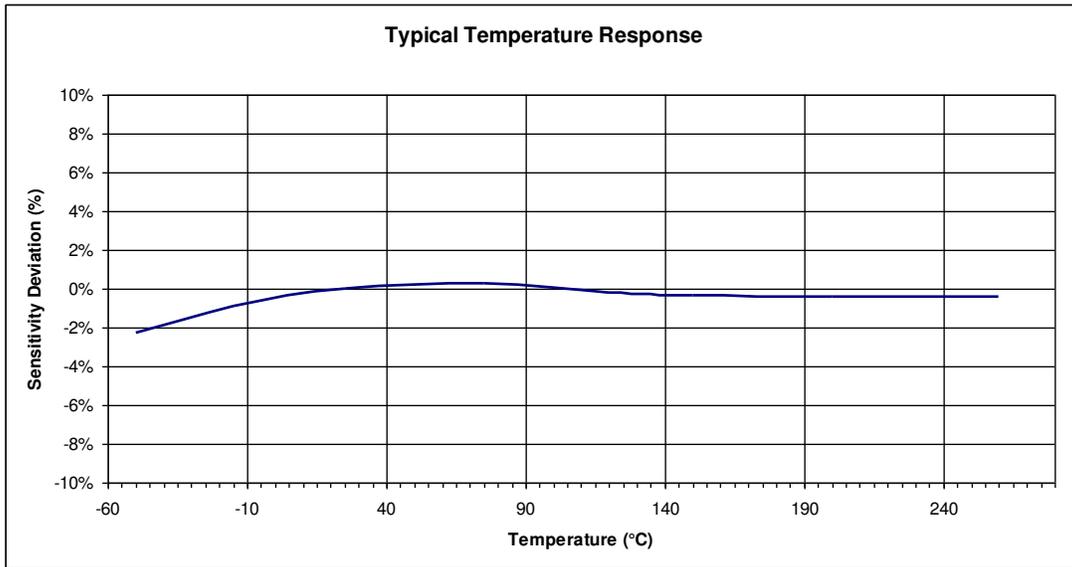
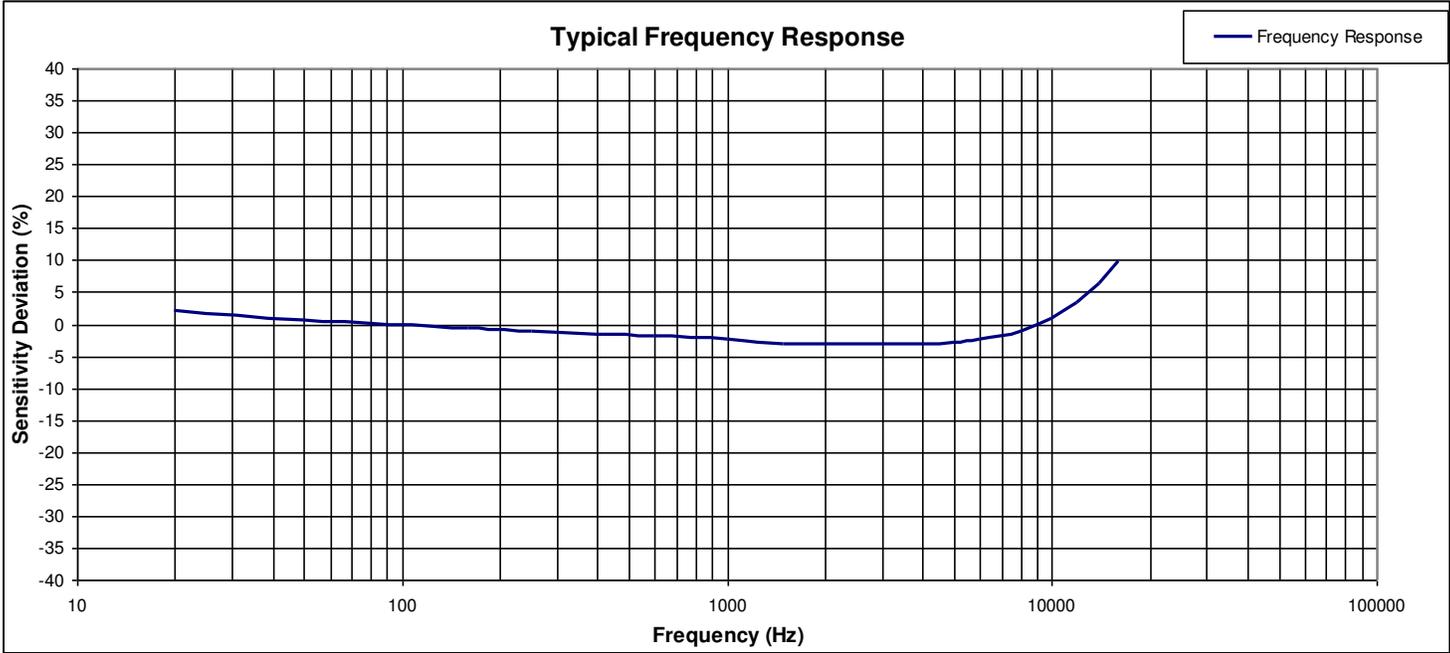
All values are typical at +24°C, 80Hz unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

| | | |
|--------------------------------------|---|--------------|
| Parameters | | |
| DYNAMIC | | Notes |
| Sensitivity (pC/g) | 5.6 | Typical |
| Sensitivity (pC/g) | 4.0 | Minimum |
| Frequency Response (Hz) ² | 1-10000 | ±10% |
| Frequency Response (Hz) ² | 0.3-15000 | ±2dB |
| Natural Frequency (Hz) | 47000 | |
| Non-Linearity (%FSO) | ±1/1000g | |
| Transverse Sensitivity (%) | <5 | |
| Dynamic Range (g) ¹ | ±4000 | |
| Shock Limit (g) | 10000 | |
| ELECTRICAL | | |
| Capacitance (pF) | 560 | Nominal |
| Insulation Resistance (MΩ) | >100 | @100Vdc |
| Grounding | Case Grounded | |
| ENVIRONMENTAL | | |
| Temperature Response (%) | See Typical Temperature Response Curve | |
| Operating Temperature (°C) | -73 to +260 | |
| Storage Temperature (°C) | -73 to +260 | |
| Humidity | Hermetically Sealed | |
| PHYSICAL | | |
| Sensing Element | Ceramic (shear mode) | |
| Case Material | Stainless Steel | |
| Weight (grams) | 7.3 | |
| Mounting | #10-32 to #10-32 Mounting Stud (included) | |
| Mounting Torque | 18 lb-in (2.0 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: | AC-D02298 | 10-32 to 10-32 mounting stud |
| Optional accessories: | 320-XXX | Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard) |
| | 130 | In-Line Charge Converter |
| | 161A | 4-Channel PE & IEPE Signal Conditioner |
| | AC-D03105 | Adhesive Mounting Adaptor |
| | AC-D03106 | Magnetic Mounting Adaptor |

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ORDERING INFORMATION

PART NUMBERING Model Number

7505A

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