



DIMENSIONS



ACCELEROMETER

[.71] .028

MODEL 7504A ACCELEROMETER

SPECIFICATIONS

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

The Model 7504A 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 7504A 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 Side 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 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)			Notes Typical Minimum ±10% ±2dB
ELECTRICAL Capacitance (pF) Insulation Resistance (MΩ) Grounding	560 >100 Case Grour	nded	Nominal @100Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity			
PHYSICAL Sensing Element Ceramic (shear mode) Case Material Stainless Steel Weight (grams) 8.6 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 $\pm 2dB$ Frequ	ency Response Limit
Supplied accessories:	AC-D02298	10-32 to 10-32 mounting stud	
Optional accessories:	320-XXX 130 161A AC-D03105	Cable Assembly, 10-32 to 10-32 (XXX designates length in inche In-Line Charge Converter 4-Channel PE & IEPE Signal Conditioner Adhesive Mounting Adaptor	es, 10ft standard)

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Magnetic Mounting Adaptor

AC-D03106





ORDERING INFORMATION

PART NUMBERING Model Number

7504A