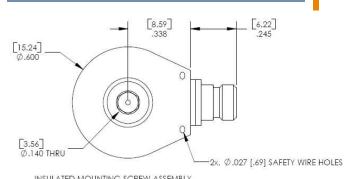
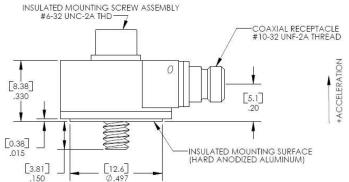


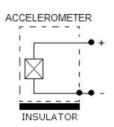




DIMENSIONS







MODEL 7500A ACCELEROMETER

SPECIFICATIONS

- +260°C Charge Output Accelerometer
- 20pC/g output, 15kHz Bandwidth
- Hermetically Sealed
- Through Hole Mount

The Model 7500A is a piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements. The accelerometer incorporates an annular shear mode crystal that provides stable thermal response up to +260°C. The model 7500A is hermetically sealed and features the popular through hole mount installation for use with standard mounting screws.

FEATURES

- 7pC/g to 20pC/g Sensitivity
- Wide bandwidth up to >15kHz
- -73°C to +260°C Operating Range
- Hermetically Sealed
- Annular Shear Mode
- Isolated Mounting Surface
- Stable Temperature Response

APPLICATIONS

- Vibration & Shock Monitoring
- High Temperature Applications
- Flight Testing
- Gearbox Vibration Monitoring
- High Frequency Applications

SENSOR SOLUTIONS /// Model 7500A Rev G

9/2015



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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 Dash Number 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)	$\begin{array}{c} -20\\ 20\\ 14.5\\ 2\\ 0.1-10000\\ 30000\\ \pm 1/1000g\\ <5\\ \pm 1250\\ 10000\end{array}$	-13 13 9.0 1-10000 0.1-12000 33000 ±1/1000g <5 ±2000 10000	-7 7.0 5.0 1-12000 0.1-15000 43000 ±1/1000g <5 ±3500 10000		Notes Typical Minimum ±10% ±2dB
ELECTRICAL Capacitance (pF) Insulation Resistance (MΩ) Ground Isolation	1050 >100 Isolated fror	1050 >100 n Mounting Surfa	1050 >100 ace		Nominal @50Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	ture Response (%)See Typical Temperature Response Curveg Temperature (°C)-73 to +260Temperature (°C)-73 to +260				
PHYSICALSensing ElementCeramic (shear mode)Case MaterialStainless SteelElectrical Connector10-32 Coaxial ReceptacleWeight (grams)10MountingThrough Hole (#6 insulated cap screw)Mounting Torque8 lb-in (1.0 N-m)					
¹ Operating range over which ² Low-end response of the ac					
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to $\pm 2dB$ Frequency Response Limit			
Supplied accessories:	AC-A03381	1x #6-32 Insul	ated Mounting Screw Ass	sembly (1/2 inch length)	
Optional accessories: standard)	320-XXX	Low Noise Ca	ble Assembly, 10-32 to 10	0-32 (XXX designates ler	ngth in inches, 10ft
	324-XXX 130	Low Noise Cal In-Line Charge		NC (XXX designates len	gth in inches, 10ft standard)

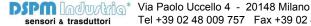
161A	4-Channel PE & IEPE Signal Conditioner

AC-A03389 Triaxial Mounting Block

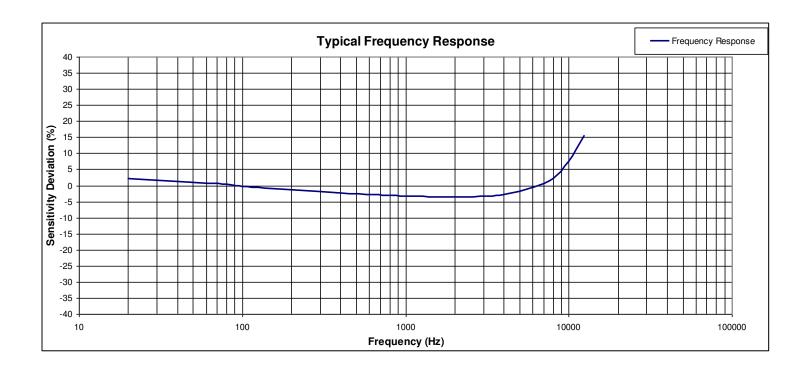
AC-A03388 Adhesive Mounting Adaptor AC-A03472 Magnetic Mounting Adaptor

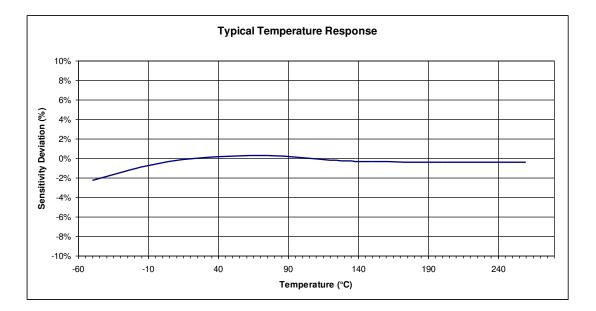
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ORDERING INFORMATION

PART NUMBERING Model Number+Sensitivity

7500A-GG

____ (20 is 20pC/g)

Example: 7500A-20 Model 7500A, 20pC/g

TE.com/sensorsolutions

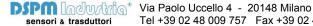
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