Model 7500A Accelerometer

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+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

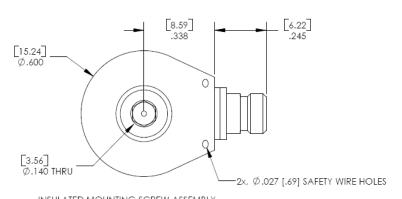
- 7pC/g to 20pC/g Sensitivity
- Wide bandwidth up to >15kHz
- -73°C to +260°C Operating Range
- Hermetically Sealed
- Annular Shear Mode
- Isolated Mounting Surface
- Stable Temperature Response

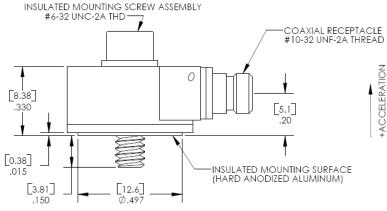
APPLICATIONS

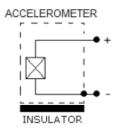
- Vibration & Shock Monitoring
- High Temperature Applications
- Flight Testing
- Gearbox Vibration Monitoring
- High Frequency Applications



dimensions







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Model 7500A 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
Dash Number	-20	-13	-7	
Sensitivity (pC/g)	20	13	7.0	Typical
Sensitivity (pC/g)	14.5	9.0	5.0	Minimum
Frequency Response (Hz) ²	1-6000	1-10000	1-12000	±10%
Frequency Response (Hz) ²	0.1-10000	0.1-12000	0.1-15000	±2dB
Natural Frequency (Hz)	30000	33000	43000	
Non-Linearity (%FSO)	±1/1000g	±1/1000g	±1/1000g	
Transverse Sensitivity (%)	< 5	<5	<5	
Dynamic Range (g) 1	±1250	±2000	±3500	
Shock Limit (g)	10000	10000	10000	
ELECTRICAL				
Capacitance (pF)	1050	1050	1050	Nominal
Insulation Resistance (MΩ)	>100	>100	>100	@50Vdc
Ground Isolation	Isolated from Mounting Surface			-

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

Electrical Connector 10-32 Coaxial Receptacle

Weight (grams) 10

Mounting Through Hole (#6 insulated cap screw)

Mounting Torque 8 lb-in (1.0 N-m)

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±2dB Frequency Response Limit

Supplied accessories: AC-A03381 1x #6-32 Insulated Mounting Screw Assembly (1/2 inch length)

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

AC-A03389 Triaxial Mounting Block
AC-A03388 Adhesive Mounting Adaptor
AC-A03472 Magnetic Mounting Adaptor

ordering info

PART NUMBERING Model Number+Sensitivity

7500A-GG | |------ (20 is 20pC/g)

Example: 7500A-20

Model 7500A, 20pC/g

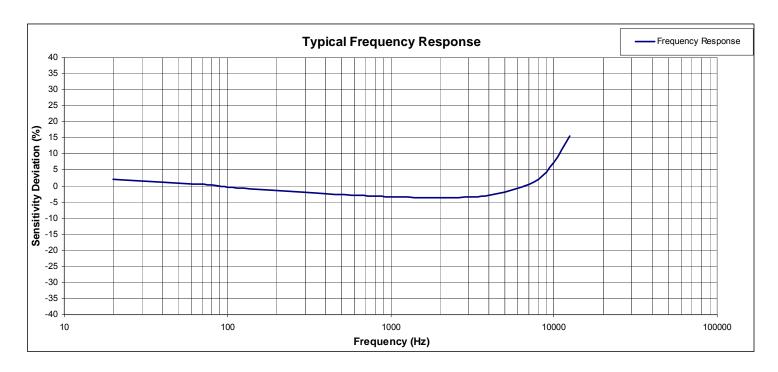
电话:+86 755 2641 9890 传真:+86 755 2641 9680 www.bill-well.com 深圳市亿为测控电子有限公司 广东省深圳市南山区创业路怡海广场东座2407 邮编:518000

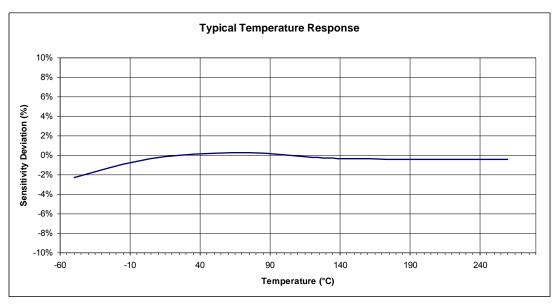
Low-end response of the accelerometer is a function of its associated electronics.

Operating range over which the accelerometer meets the linearity specifications Low-end response of the accelerometer is a function of its associated electronics.

Model 7500A Accelerometer

performance specifications





联系方式



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