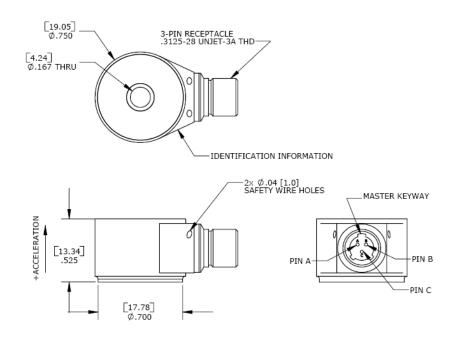


Internally Shielded IEPE Accelerometer 43kHz Resonant Frequency +130°C Operating Temperature Hermetically Sealed

**The Model 7204A** is a case isolated high temperature IEPE accelerometer with internal shielding. The accelerometer has a flat bandwidth up to greater than 15kHz with a resonant frequency greater than 40kHz. The model 7204A is available in  $\pm 10$  to  $\pm 500$ g ranges and has an operating temperature range up to  $\pm 130^{\circ}$ C. The unit is hermetically sealed and features the popular through hole mount installation for standard mounting screws. A three pin integral connector is featured as the electrical interface.



### dimensions

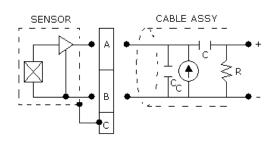




- ±10g to ±500g Dynamic Range
- Wide bandwidth up to 15kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed
- Annular Shear Mode
- Through Hole Mount
- Stable Temperature Response
- 3-Pin Connector

#### **APPLICATIONS**

- Health Usage Monitoring Systems
- Flight Testing
- Gearbox Vibration Monitoring
- High Frequency Applications
- Harsh Environments



## **Model 7204A 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.

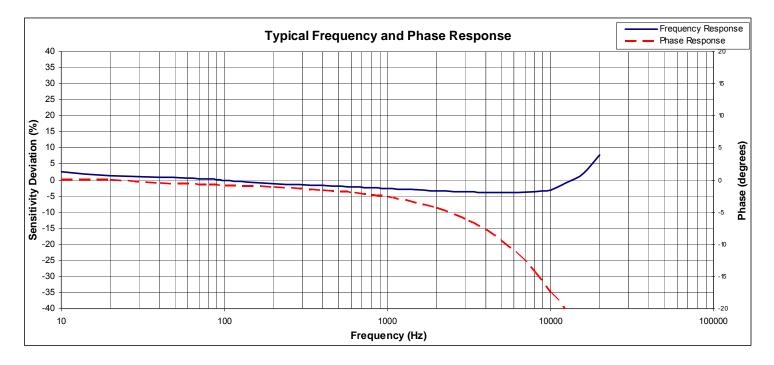
Parameters <b>DYNAMIC</b> Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±10 500 1-4000 0.6-8000 25000 ±1 <5 5000	±50 100 1-5000 0.6-10000 33000 ±1 <5 5000	±500 10 1-10000 0.6-20000 44000 ±1 <5 5000	Notes ±5% ±1dB <sup>2</sup>
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance ( $\Omega$ ) Full Scale Output Voltage (V) Residual Noise (g RMS) Discharge Time Constant (sec) Warm-Up Time (sec) Case Grounding	2	18 to 30 2 to 20 8 to 12 6 to 13 <100 ±5 0.0001	18 to 30 2 to 20 8 to 12 6 to 13 <100 ±5 0.00025	Room Temperature -55 to +130°C
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	See Typical Temperature Response Curve-55 to +130See Note 1-55 to +130See Note 1Hermetically SealedSee Note 1			
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque <sup>1</sup> Contact factory for +150°C ter	Ceramic (shear mode) Stainless Steel 3-Pin Receptacle 23 Through Hole (#8 or M4 cap screw) 20 lb-in (2.3 N-m) temperature option			
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Response Limit <sup>2</sup>				
	1x #8-32 Mounting Screw (5/8 inch length)			
Optional accessories:	312-XXX	Cable Assembly (XXX designates length in inches, 10ft standard)		

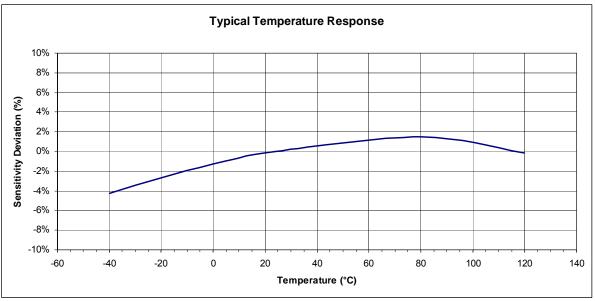
The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.



# **Model 7204A Accelerometer**

### performance specifications





ordering info



7204A-GGGG

\_\_\_\_ Range (0500 is 500g)

Example: 7204A-0500 Model 7204A, 500g