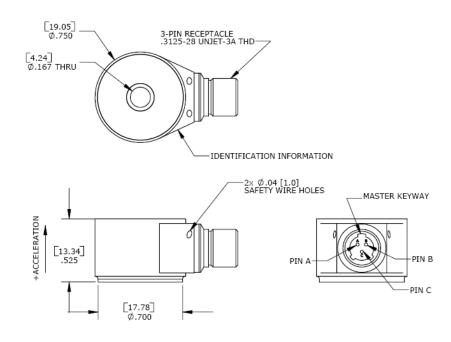


Internally Shielded IEPE Accelerometer 43kHz Resonant Frequency +130°C Operating Temperature Hermetically Sealed

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 ± 10 to ± 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

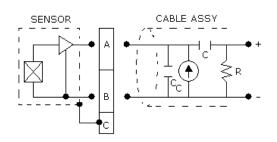




- ±10g to ±500g Dynamic Range
- Wide bandwidth up to 15kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed
- Annular Shear Mode
- Through Hole Mount
- Stable Temperature Response
- 3-Pin Connector

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.

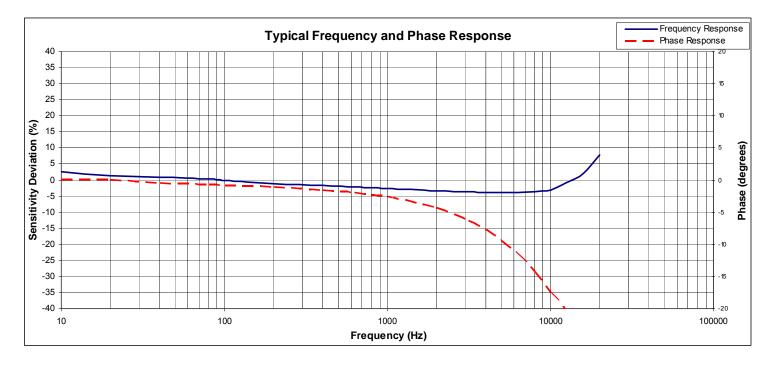
Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±10 500 1-4000 0.6-8000 25000 ±1 <5 5000	±50 100 1-5000 0.6-10000 33000 ±1 <5 5000	±500 10 1-10000 0.6-20000 44000 ±1 <5 5000	Notes ±5% ±1dB ²
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) 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
ENVIRONMENTAL 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 ¹ 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 ²				
	1x #8-32 Mounting Screw (5/8 inch length)			
Optional accessories:	312-XXX	Cable Assembly (XXX designates length in inches, 10ft standard)		

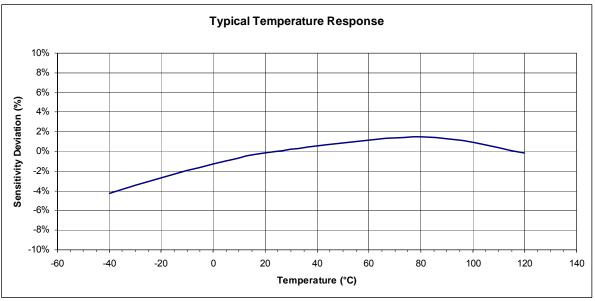
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Model 7204A Accelerometer

performance specifications





ordering info



7204A-GGGG

____ Range (0500 is 500g)

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