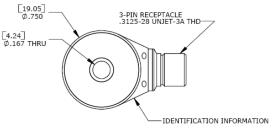


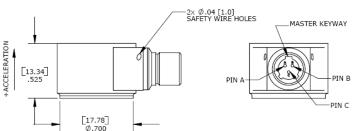


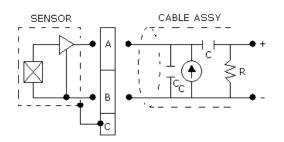




DIMENSIONS







MODEL 7204A ACCELEROME

SPECIFICATIONS

- Internally Shielded HUMS Accelerometer
- 43kHz Resonant Frequency
- +130°C Operating Temperature
- Hermetically Sealed, Mil-Aero Qualified

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 ±500g ranges and has an operating temperature range up to +130°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.

FEATURES

- ±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



PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters				
DYNAMIC				
Range (g)	±10	±50	±500	
Sensitivity (mV/g)	500	100	10	
Frequency Response (Hz)	1-4000	1-5000	1-10000	
Frequency Response (Hz)	0.6-8000	0.6-10000	0.6-20000	
Natural Frequency (Hz)	25000	33000	44000	
Non-Linearity (%FSO)	±1	±1	±1	
Transverse Sensitivity (%)	<5	<5	<5	
Shock Limit (g)	5000	5000	5000	
Residual Noise (g RMS)	0.003	0.001	0.0025	

ELECTRICAL

Compliance Voltage (Vdc) 18 to 30 Excitation Current (mA) 2 to 20 Bias Voltage (Vdc) 8 to 12 Bias Voltage (Vdc) 6 to 13 Output Impedance (Ω) <100 Full Scale Output Voltage (V) ±5 0.8 to 1.2

Discharge Time Constant (sec) Warm-Up Time (sec) 2

Case Grounding Case Isolated, Internally Shielded

ENVIRONMENTAL

Temperature Response (%) See Typical Temperature Response Curve

Operating Temperature (°C) -55 to +130 See Note 1 Storage Temperature (°C) -55 to +130 See Note 1 Humidity Hermetically Sealed

PHYSICAL

Sensing Element Ceramic (shear mode) Case Material Stainless Steel **Electrical Connector** 3-Pin Receptacle

Weight (grams) 23

Through Hole (#8 or M4 cap screw) Mounting

Mounting Torque 20 lb-in (2.3 N-m)

CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Response Limit² Calibration supplied:

1x #8-32 Mounting Screw (5/8 inch length) Supplied accessories:

Optional accessories: 312-XXX Cable Assembly (XXX designates length in inches, 10ft standard)

4-Channel PE & IEPE Signal Conditioner 161A

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France

Sweden

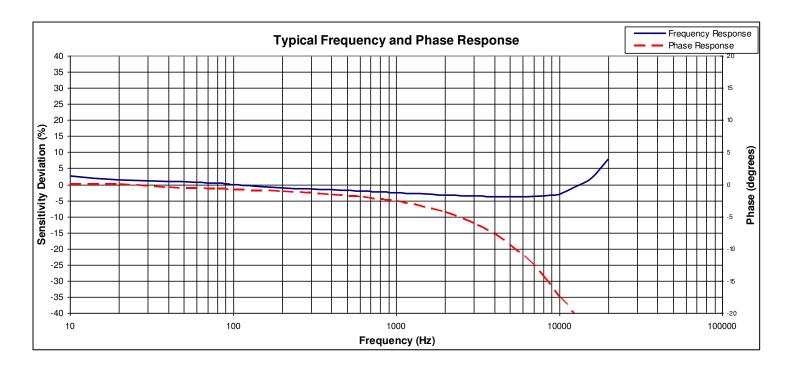
Notes

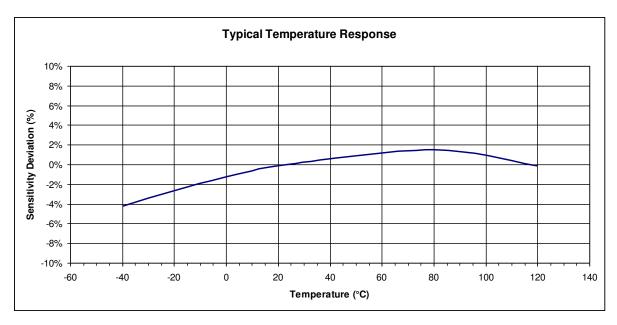
±5% ±1dB²

Room Temperature

-55 to +130°C

¹ Contact factory for +150→C temperature option.





Other countries

ORDERING INFORMATION

PART NUMBERING Model Number+Range

7204A-GGGG Range (0500 is 500g)

Example: 7204A-0500

Model 7204A, 500g

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Other countries