

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 ±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

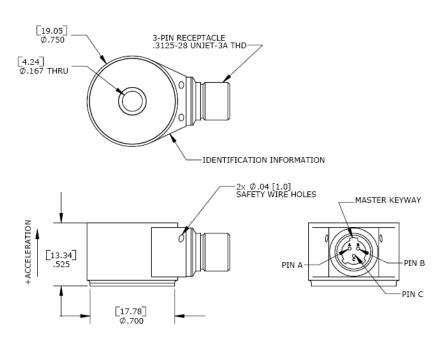
- ±10g to ±500g Dynamic Range
- Wide bandwidth up to 15kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed
- Annular Shear Mode
- Through Hole Mount
- Stable Temperature Response
- 3-Pin Connector

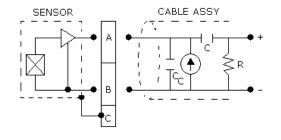
APPLICATIONS

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



dimensions





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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)	±10	±50	±500	Notes
Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	500 1-4000 0.6-8000 25000 ±1 <5 5000	100 1-5000 0.6-10000 33000 ±1 <5 5000	10 1-10000 0.6-20000 44000 ±1 <5 5000	±5% ±1dB²
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	18 to 30 2 to 20 8 to 12 6 to 13 <100 ±5 0.0003 0.8 to 1.2 2 Case Isolated	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 +130 -55 to +130 Hermetically Sealed			See Note 1 See Note 1
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams)	Ceramic (she Stainless Ster 3-Pin Recepta 23	el		

Mounting Torque 20 lb-in (2.3 N-m)
¹ Contact factory for +150°C temperature option.

Mounting

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

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

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

Through Hole (#8 or M4 cap screw)

ordering info

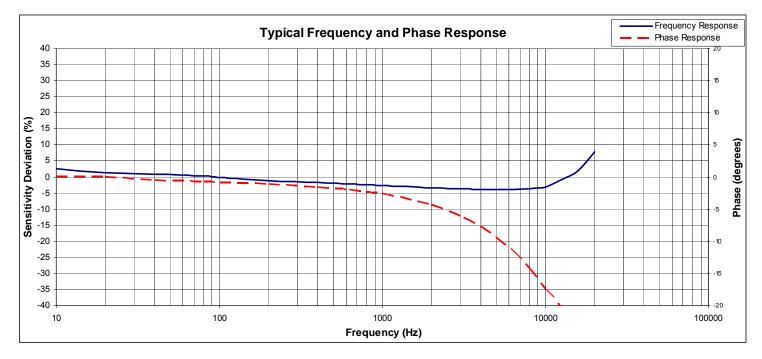
PART NUMBERING	Model Number+Range
7204A-GGGG <u> </u>	ange (0500 is 500g)

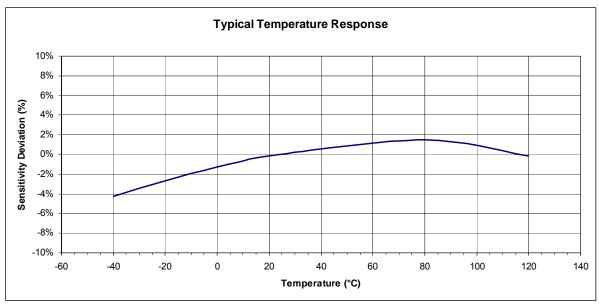
Example: 7204A-0500 Model 7204A, 500g

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联系方式



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