

Performance

Voltage Sensitivity (± 10 %)
Measurement Range
Frequency Range (± 5 %)
Frequency Range (± 10 %)
Frequency Range (± 3 dB)
Resonant Frequency
Broadband Resolution (1 to 10000 Hz)
Non-Linearity
Transverse Sensitivity

ENGLISH

1000 mV/g
± 5 g pk
0.06 to 450 Hz
0.05 to 750 Hz
0.02 to 1700 Hz
≥ 2.5 kHz
0.000003 g rms
≤ 1 %
≤ 5 %

SI

102 mV/(m/s²)
± 49 m/s² pk
0.06 to 450 Hz
0.05 to 750 Hz
0.02 to 1700 Hz
≥ 2.5 kHz
0.00003 m/s² rms
≤ 1 %
≤ 5 %

Notes

[1]
[2]
[3]

Environmental

Overload Limit (Shock)
Temperature Range (Operating)
Temperature Response
Base Strain Sensitivity

± 300 g pk
-15 to +176 °F
See Graph
≤ 0.0005 g/με

± 2950 m/s² pk
-26 to +80 °C
See Graph
≤ 0.005 (m/s²)/με

[1]

Electrical

Excitation Voltage
Constant Current Excitation
Output Impedance
Output Bias Voltage
Discharge Time Constant
Settling Time (within 10 % of bias)
Spectral Noise (1 Hz)
Spectral Noise (10 Hz)
Spectral Noise (100 Hz)
Spectral Noise (1 kHz)

18 to 30 VDC
2 to 20 mA
< 500 Ohms
7 to 12 VDC
5 to 15 s
< 100 s
0.30 μg/√Hz
0.10 μg/√Hz
0.04 μg/√Hz
0.04 μg/√Hz

18 to 30 VDC
2 to 20 mA
< 500 Ohms
7 to 12 VDC
5 to 15 s
< 100 s
2.9 (μm/s²)/√Hz
1.0 (μm/s²)/√Hz
0.4 (μm/s²)/√Hz
0.4 (μm/s²)/√Hz

[1]
[1]
[1]
[1]

Physical

Sensing Element
Sensing Geometry
Housing Material
Sealing
Size (Diameter x Height)
Weight
Electrical Connector
Electrical Connector Position
Mounting Thread

Ceramic
Flexural
Titanium
Hermetic
0.99 x 1.22 in
1.8 oz
10-32 Coaxial Jack
Top
10-32 Female

Ceramic
Flexural
Titanium
Hermetic
25 x31 mm
50 gm
10-32 Coaxial Jack
Top
10-32 Female

[1]



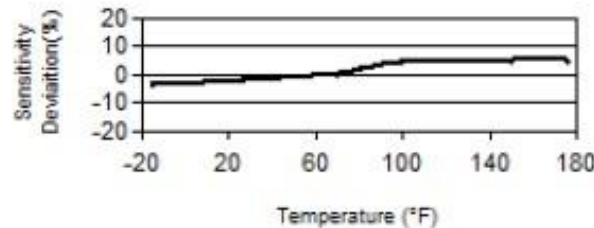
Notes

- [1] Typical
- [2] Zero-based, least-square, straight line method
- [3] Transverse sensitivity is typically ≤ 3 %

Supplied Accessories

- NIST Traceable Calibration Certificate
- Model 081B05 Mounting Stud, 10-32 to 10-32 (1)
- Model 085A41 Thermal Boot (1)
- Model M081B05 Mounting Stud, 10-32 to M6 x 0.75 (1)

Typical Sensitivity Deviation vs Temperature



All specifications are at room temperature unless otherwise specified
In the interest of constant product improvement, we reserve the right to change specifications without notice.
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