

**Performance**  
Sensitivity (± 5 %) 10.2 mV/(m/s<sup>2</sup>) [4]  
Measurement Range ± 50 g [5][6]  
Frequency Range (± 5 %) 2.4 to 2000 Hz  
Frequency Range (± 10 %) 1.7 to 3000 Hz  
Frequency Range (± 3 dB) 0.8 to 5000 Hz  
Resonant Frequency 18 kHz [3]  
Broadband Resolution (1 to 10,000 Hz) 9.81 mm/s<sup>2</sup> [3]  
Non-Linearity ± 1 % [7]  
Transverse Sensitivity ≤ 5 %

**Environmental**  
Overload Limit (Shock) 1000 g pk  
Temperature Range (Operating) -65 to +325 °F  
Temperature Range (Survivable Limit) +350 °F  
Temperature Response See Graph

**Electrical**  
Settling Time (within 1% of bias) ≤ 3 sec  
Discharge Time Constant ≥ 0.2 sec  
Excitation Voltage 18 to 28 VDC  
Constant Current Excitation 2 to 10 mA  
Output Impedance <500 ohm  
Output Bias Voltage 8 to 12 VDC  
Spectral Noise (10 Hz) 50 µg/√Hz  
Spectral Noise (100 Hz) 20 µg/√Hz  
Spectral Noise (1 kHz) 6 µg/√Hz  
Electrical Isolation (Case) >10<sup>8</sup> ohm  
Electrical Protection RF/ESD

**Physical**  
Size (Diameter x Height) 1.37 in x .955 in  
Weight 4.2 oz  
Mounting Thread 1/4-28 UNF  
Mounting Torque 2 to 5 ft-lb  
Sensing Element Quartz  
Sensing Geometry Shear  
Housing Material Stainless Steel  
Sealing Welded Hermetic  
Electrical Connector MIL-C-5015  
Electrical Connection Position Side

**OPTIONAL VERSIONS**  
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.  
**M** - Metric Mount  
Supplied Accessory : Model M081A67 Captive mounting bolt M6 x 1 (1) replaces Model 081A67

**NOTES:**  
[1] Maximum of 4 mA is recommended at temperatures above 250 °F (121 °C).  
[2] Bias voltage increases with higher constant current.  
[3] Typical.  
[4] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
[5] 1Hz = 60 cpm (cycles per minute).  
[6] The high frequency tolerance is accurate within ±10% of the specified frequency.  
[7] Zero-based, least-squares, straight line method.  
[8] 1/4-28 has no equivalent in S.I. units.  
[9] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
Model 081A67 Captive mounting bolt 1/4-28 x 1.12" (1)  
Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)



**CE** [9]

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All specifications are at room temperature unless otherwise specified.  
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