

| | ENGLISH | SI | |
|--|----------------------------------|-----------------------------------|--------|
| Performance | | | |
| Sensitivity(Channel A) | 334,566 counts/g | 34,105 counts/(m/s ²) | [2][3] |
| Sensitivity(Channel B) | 664,689 counts/g | 67,756 counts/(m/s ²) | [2][3] |
| Measurement Range(Channel A) | ± 20 g pk | ± 196 m/s ² pk | [1] |
| Measurement Range(Channel B) | ± 10 g pk | ± 98 m/s ² pk | [1] |
| ADC Bandwidth(-3 dB) | 9.3 to 1,374,000 cpm | 0.155 to 22,900 Hz | |
| Frequency Range(± 5 %) | 120 to 480,000 cpm | 2 to 8000 Hz | [4][1] |
| Frequency Range(± 10 %) | 90 to 660,000 cpm | 1.5 to 11,000 Hz | [4][1] |
| Frequency Range(± 3 dB) | 54 to 900,000 cpm | 0.9 to 15,000 Hz | [4][1] |
| Resonant Frequency | ≥ 1500 kcpm | ≥ 25 kHz | |
| Mounted Resonance | 1044 kcpm | 17.4 kHz | [1] |
| Mounted Resonance Amplification | 200 % | 200 % | [1] |
| Broadband Resolution(1 to 10,000 Hz) | 0.0025 g pk | 0.0245 m/s ² pk | [1][3] |
| Non-Linearity | ≤ 2 % | ≤ 2 % | [5] |
| Transverse Sensitivity | ≤ 5 % | ≤ 5 % | |
| Environmental | | | |
| Overload Limit(Shock) | 7000 g pk | 68,647 m/s ² pk | |
| Temperature Range(Operating) | +14 to +158 °F | -10 to +70 °C | |
| Temperature Response(Coefficient) | 0.10 %/°F | 0.18 %/°C | [1] |
| Electrical | | | |
| Communication Standard | USB 2.0 Full Speed | USB 2.0 Full Speed | |
| Power Consumption | ≤ 45 mA | ≤ 45 mA | [1] |
| Internal ADC | 24 bit | 24 bit | |
| Supported Resolution Rates(Selectable) | 24 bit 16 bit | 24 bit 16 bit | |
| Supported Sample Rates(Selectable) | 48 44.1 32 22.05 16 11.025 8 kHz | 48 44.1 32 22.05 16 11.025 8 kHz | |
| Physical | | | |
| Size (Hex x Height) | 1.0 in x 2.6 in | 25.4 mm x 66.0 mm | |
| Weight | 4.62 oz | 131 gm | |
| Mounting Thread | 1/4-28 UNF | 1/4-28 UNF | [6] |
| Mounting Torque | 2 to 5 ft-lb | 2.7 to 6.8 Nm | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | Integral Cable | Integral Cable | |
| Electrical Connector | USB Type A Male | USB Type A Male | |
| Electrical Connection Position | Top | Top | |
| Cable Length | 9.6 ft | 2.9 m | |

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.

NOTES:

[1] Typical.
 [2] Typical value. For actual calibrated sensitivity values, refer to calibration label.
 [3] Conversion Factor 1g = 9.81 m/s².
 [4] Frequency range at highest supported sample rate.
 [5] Zero-based, least-squares, straight line method.
 [6] 1/4-28 has no equivalent in S.I. units.
 [7] See PCB Declaration of Conformance PS194 for details.

SUPPLIED ACCESSORIES:
 Model 081A40 Mounting Stud

| | | | | |
|------------------|------------------|------------------|------------------|--------------|
| Entered: LK | Engineer: GD | Sales: MC | Approved: BAM | Spec Number: |
| Date: 11/27/2018 | Date: 11/27/2018 | Date: 11/27/2018 | Date: 11/27/2018 | 69746 |



*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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