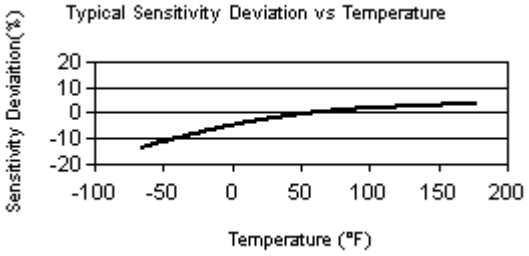
| Model Number | TRIAXIAL ICP® ACCELEROMETER | Revision: K |
|---|---|---|
| **356A16** | | ECN #: 28126 |

| **Performance** | **ENGLISH** | **SI** | |
|---|---|---|---|
| Sensitivity(± 10 %) | 100 mV/g | 10.2 mV/(m/s²) | |
| Measurement Range | ± 50 g pk | ± 490 m/s² pk | |
| Frequency Range(± 5 %)(y or z axis) | 0.5 to 5000 Hz | 0.5 to 5000 Hz | |
| Frequency Range(± 5 %)(x axis) | 0.5 to 4500 Hz | 0.5 to 4500 Hz | |
| Frequency Range(± 10) | 0.3 to 6000 Hz | 0.3 to 6000 Hz | |
| Resonant Frequency | ≥ 25 kHz | ≥ 25 kHz | |
| Phase Response(± 5 °) | 1.0 to 5000 Hz | 1.0 to 5000 Hz | |
| Broadband Resolution(1 to 10,000 Hz) | 0.0001 g rms | 0.001 m/s² rms | [1] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [2] |
| Transverse Sensitivity | ≤ 5 % | ≤ 5 % | |
| **Environmental** | | | |
| Overload Limit(Shock) | ± 7000 g pk | ± 68,600 m/s² pk | |
| Temperature Range(Operating) | -65 to +176 °F | -54 to +80 °C | |
| Temperature Response | See Graph | See Graph | [1] |
| Base Strain Sensitivity | 0.001 g/με | 0.01 (m/s²)/με | [1] |
| **Electrical** | | | |
| Excitation Voltage | 20 to 30 VDC | 20 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | ≤ 200 Ohm | ≤ 200 Ohm | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Discharge Time Constant | 1.0 to 3.0 sec | 1.0 to 3.0 sec | |
| Settling Time(within 10% of bias) | <10 sec | <10 sec | |
| Spectral Noise(1 Hz) | 40 μg/√Hz | 392 (μm/sec²)/√Hz | [1] |
| Spectral Noise(10 Hz) | 10 μg/√Hz | 98 (μm/sec²)/√Hz | [1] |
| Spectral Noise(100 Hz) | 3 μg/√Hz | 29.4 (μm/sec²)/√Hz | [1] |
| Spectral Noise(1 kHz) | 1 μg/√Hz | 9.8 (μm/sec²)/√Hz | [1] |
| Spectral Noise(10 kHz) | 0.5 μg/√Hz | 4.9 (μm/sec²)/√Hz | [1] |
| **Physical** | | | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Anodized Aluminum | Anodized Aluminum | |
| Sealing | Epoxy | Epoxy | |
| Size (Height x Length x Width) | 0.55 in x 0.80 in x 0.55 in | 14.0 mm x 20.3 mm x 14.0 mm | |
| Weight | 0.26 oz | 7.4 gm | [1] |
| Electrical Connector | 1/4-28 4-Pin | 1/4-28 4-Pin | |
| Electrical Connection Position | Side | Side | |
| Mounting Thread | 10-32 Female | 10-32 Female | |
| Mounting Torque | 10 to 20 in-lb | 113 to 225 N-cm | |

CE[3]




*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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## 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.

**A** - Adhesive Mount
Supplied Accessory : Model 080A109 Petro Wax (1)
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

**T** - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4
**TLA** - TEDS LMS International - Free Format
**TLB** - TEDS LMS International - Automotive Format
**TLC** - TEDS LMS International - Aeronautical Format
**TLD** - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

| | | |
|---|---|---|
| Temperature Range(Operating) | -65 to +176 °F | -54 to +80 °C |
| Output Bias Voltage | 8.5 to 13.0 VDC | 8.5 to 13.0 VDC |

**NOTES:**
[1]Typical.
[2]Zero-based, least-squares, straight line method.
[3]See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**
Model 080A109 Petro Wax (1)
Model 080A12 Adhesive Mounting Base (1)
Model 081B05 Mounting Stud (10-32 to 10-32) (1)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

| Entered: | Engineer: SDS | Sales: | Approved: BAM | Spec Number: |
|---|---|---|---|---|
| Date: | Date: 2/11/2008 | Date: | Date: 2/11/2008 | **10330** |

PCB PIEZOTRONICS
3425 Walden Avenue, Depew, NY 14043
**Phone: 716-684-0001**
**Fax: 716-684-0987**
**E-Mail: info@pcb.com**