
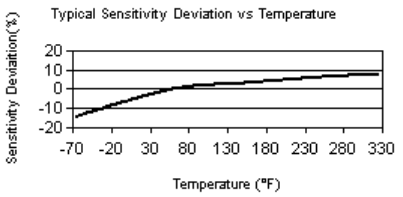


| Model Number 352C04 | ACCELEROMETER, ICP® | | Revision D ECN #: 25274 | | | | | | | | | |
|---|--|--|--|---------------|------------|--|--------------|------------------|------------------|------------------|--|--------------|
| Performance Sensitivity (±10 %) 10 mV/g Measurement Range ±500 g pk Frequency Range (±5 %) 0.5 to 10000 Hz Frequency Range (±10 %) 0.3 to 15000 Hz Resonant Frequency ≥50 kHz Broadband Resolution (1 to 10000 Hz) 0.0005 g rms Non-Linearity ≤1 % Transverse Sensitivity ≤5 % | ENGLISH 10 mV/g ±500 g pk 0.5 to 10000 Hz 0.3 to 15000 Hz ≥50 kHz 0.0005 g rms ≤1 % ≤5 % | SI 1.02 mV/(m/s ²) ±4900 m/s ² pk 0.5 to 10000 Hz 0.3 to 15000 Hz ≥50 kHz 0.005 m/s ² rms ≤1 % ≤5 % | Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) HT - High temperature, extends normal operation temperatures [5] Frequency Range (±5 %) 5 to 10000 Hz 5 to 10000 Hz Frequency Range (±10 %) 3 to 15000 Hz 3 to 15000 Hz Temperature Range (Operating) -65 to +325 °F -54 to +163 °C Excitation Voltage 22 to 30 VDC 22 to 30 VDC Discharge Time Constant 0.1 to 0.3 sec 0.1 to 0.3 sec Spectral Noise (1 Hz) 200 µg/√Hz 1962 (µm/sec ² /√Hz [1] Spectral Noise (10 Hz) 30 µg/√Hz 294 (µm/sec ² /√Hz [1] Output Bias Voltage 10 to 15 VDC 10 to 15 VDC [2] Supplied Accessory: Model ACS-68 Single Axis Amplitude Response Calibration from 5 Hz to upper 5% plotted on dB scale replaces Model ACS-1 | | | | | | | | | |
| Environmental Overload Limit (Shock) ±5000 g pk Temperature Range (Operating) -65 to +250 °F Temperature Response See Graph Base Strain Sensitivity 0.003 g/µε | ±5000 g pk -65 to +250 °F See Graph 0.003 g/µε | ±49000 m/s ² pk -54 to +121 °C See Graph 0.029 (m/s ²)/µε | [1][5] J - Ground Isolated Frequency Range (5 %) 9000 Hz 9000 Hz Frequency Range (10 %) 14000 Hz 14000 Hz Resonant Frequency ≥40 kHz ≥40 kHz Electrical Isolation (Base) >10 ⁸ ohm >10 ⁸ ohm Size (Hex x Height) 0.44 in x 0.93 in 11.2 mm x 23.6 mm Weight 0.21 oz 6.0 gm | | | | | | | | | |
| Electrical Excitation Voltage 18 to 30 VDC Constant Current Excitation 2 to 20 mA Output Impedance ≤100 ohm Output Bias Voltage 7 to 12 VDC Discharge Time Constant 1.0 to 2.5 sec Settling Time (within 10% of bias) <10 sec Spectral Noise (1 Hz) 110 µg/√Hz Spectral Noise (10 Hz) 25 µg/√Hz Spectral Noise (100 Hz) 8 µg/√Hz Spectral Noise (1 kHz) 4 µg/√Hz | 18 to 30 VDC 2 to 20 mA ≤100 ohm 7 to 12 VDC 1.0 to 2.5 sec <10 sec 110 µg/√Hz 25 µg/√Hz 8 µg/√Hz 4 µg/√Hz | 18 to 30 VDC 2 to 20 mA ≤100 ohm 7 to 12 VDC 1.0 to 2.5 sec <10 sec 1080 (µm/sec ² /√Hz [1] 245 (µm/sec ² /√Hz [1] 78 (µm/sec ² /√Hz [1] 39 (µm/sec ² /√Hz [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 Temperature Range (Memory Access) -10 to +250 °F -23 to +121 °C Excitation Voltage 20 to 30 VDC 20 to 30 VDC Output Bias Voltage 7.5 to 13 VDC 7.5 to 13 VDC TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 W - Water Resistant Cable Electrical Connector Sealed Integral Cable Sealed Integral Cable Electrical Connection Position Top Top | | | | | | | | | |
| Physical Sensing Element Ceramic Sensing Geometry Shear Housing Material Titanium Sealing Hermetic Size (Hex x Height) 0.44 in x 0.88 in Weight 0.20 oz Electrical Connector 10-32 Coaxial Jack Electrical Connection Position Top Mounting Thread 10-32 Female Mounting Torque 10 to 20 in-lb | Ceramic Shear Titanium Hermetic 0.44 in x 0.88 in 0.20 oz 10-32 Coaxial Jack Top 10-32 Female 10 to 20 in-lb | Ceramic Shear Titanium Hermetic 11.2 mm x 22.4 mm 5.8 gm 10-32 Coaxial Jack Top 10-32 Female 113 to 226 N-cm | [1] Notes [1] Typical. [2] TEDS option adds 1.0 VDC to bias voltage. [3] Zero-based, least-squares, straight line method. [4] See PCB Declaration of Conformance PS023 for details. [5] 250° F to 325° F data valid with HT option only. Supplied Accessories 080A Adhesive Mounting Base (1) 080A109 Petro Wax (1) 081B05 Mounting Stud (10-32 to 10-32) (1) ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). () M081B05 Mounting Stud 10-32 to M6 X 0.75 (1) | | | | | | | | | |
|  [4] <p><i>All specifications are at room temperature unless otherwise specified.</i> In the interest of constant product improvement, we reserve the right to change specifications without notice. ICP® is a registered trademark of PCB group, Inc.</p> |  <p>Typical Sensitivity Deviation vs Temperature</p> <p>The graph shows Sensitivity Deviation (%) on the y-axis (ranging from -20 to 20) versus Temperature (°F) on the x-axis (ranging from -70 to 330). The curve starts at approximately -10% at -70°F and rises to about 10% at 330°F, with a slight dip around 100°F.</p> | <table border="1"> <tr> <td data-bbox="1129 1421 1318 1469">Entered: BAM</td> <td data-bbox="1318 1421 1491 1469">Engineer: WDC</td> <td data-bbox="1491 1421 1654 1469">Sales: JJB</td> <td data-bbox="1654 1421 1843 1469"></td> <td data-bbox="1843 1421 2022 1469">Spec Number:</td> </tr> <tr> <td data-bbox="1129 1469 1318 1521">Date: 11/09/2006</td> <td data-bbox="1318 1469 1491 1521">Date: 11/09/2006</td> <td data-bbox="1491 1469 1654 1521">Date: 11/09/2006</td> <td data-bbox="1654 1469 1843 1521"></td> <td data-bbox="1843 1469 2022 1521">16921</td> </tr> </table> | Entered: BAM | Engineer: WDC | Sales: JJB | | Spec Number: | Date: 11/09/2006 | Date: 11/09/2006 | Date: 11/09/2006 | | 16921 |
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