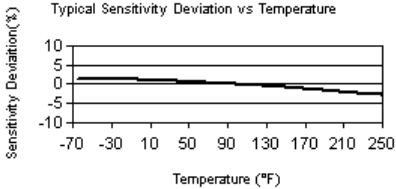


Model Number 353B17	<b>ACCELEROMETER, ICP®</b>		Revision M ECN #: 14822										
<b>Performance</b> Sensitivity (±10 %) Measurement Range Frequency Range (±5 %) Frequency Range (±10 %) Frequency Range (±3 dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	<b>ENGLISH</b> 10 mV/g ±500 g pk 1 to 10000 Hz 0.7 to 20000 Hz 0.35 to 30000 Hz ≥70 kHz 0.005 g rms ≤1 % ≤5 %	<b>SI</b> 1.02 mV/(m/s²) ±4905 m/s² pk 1 to 10000 Hz 0.7 to 20000 Hz 0.35 to 30000 Hz ≥70 kHz 0.05 m/s² rms ≤1 % ≤5 %	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) <b>A - Adhesive Mount</b> [4] Supplied Accessory: Model 080A90 Quick Bonding Gel <b>B - Low bias electronics</b> Output Bias Voltage 4.5 to 6.5 VDC 4.5 to 6.5 VDC Excitation Voltage 12 to 30 VDC 12 to 30 VDC Constant Current Excitation 1 to 20 mA 1 to 20 mA Measurement Range ±300 g pk ±2943 m/s² pk <b>J - Ground Isolated</b> Frequency Range (+5 %) 8 kHz 8 kHz Frequency Range (+10 %) 15 kHz 15 kHz Resonant Frequency ≥56 kHz ≥56 kHz Electrical Isolation (Base) ≥10 <sup>8</sup> ohm ≥10 <sup>8</sup> ohm Size (Hex x Height) 0.37 in x 0.57 in 9.5 mm x 14.5 mm [1] Weight (without cable) 0.10 oz 2.9 gm [1]										
<b>Environmental</b> Overload Limit (Shock) Temperature Range (Operating) Temperature Response Base Strain Sensitivity	±10000 g pk -65 to +250 °F See Graph ≤0.002 g/με	±98100 m/s² pk -54 to +121 °C See Graph ≤0.02 (m/s²)/με	[1] [2] [3]										
<b>Electrical</b> 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 ≤100 ohm 8 to 12 VDC 0.5 to 2.0 sec <5 sec 3200 μg/√Hz 700 μg/√Hz 180 μg/√Hz 64 μg/√Hz	18 to 30 VDC 2 to 20 mA ≤100 ohm 8 to 12 VDC 0.5 to 2.0 sec <5 sec 31392 (μm/s²)/√Hz 6867 (μm/s²)/√Hz 1766 (μm/s²)/√Hz 628 (μm/s²)/√Hz	[1] [1] [1] [1]										
<b>Physical</b> Sensing Element Sensing Geometry Housing Material Sealing Size (Hex x Height) Weight (without cable) Electrical Connector Electrical Connection Position Cable Length Cable Type Mounting Thread Mounting Torque	Quartz Shear Titanium Welded Hermetic 0.28 in x 0.49 in 0.06 oz 10-32 Coaxial Plug Top 10 ft 031 Twisted Pair 5-40 Male 8 to 12 in-lb	Quartz Shear Titanium (Welded Hermetic) 7.1 mm x 12.4 mm 1.7 gm 10-32 Coaxial Plug Top 3 m 031 Twisted Pair (5-40 Male) 90 to 135 N-cm	[1] [1]										
			<b>M - Metric Mount</b> Mounting Thread M3 x 0.50 Male (M3 x 0.50 Male) Supplied Accessory: Model M080A15 Adhesive Mounting Base replaces Model 080A15 <b>Q - Extended discharge time constant</b> Frequency Range (-5 %) 0.15 Hz 0.15 Hz Frequency Range (-10 %) 0.1 Hz 0.1 Hz Discharge Time Constant ≥5 sec ≥5 sec Settling Time (within 10% of bias) <45 sec <45 sec Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration. <b>W - Water Resistant Cable</b> Temperature Range (Operating) -20 to 220 °F -29 to 104 °C Electrical Connector Sealed Integral Cable Sealed Integral Cable Electrical Connection Position Top Top Cable Length 10 ft 3 m Cable Type 018 Coaxial 018 Coaxial  <b>Notes</b> [1] Typical. [2] Zero-based, least-squares, straight line method. [3] Transverse sensitivity is typically ≤ 3%. [4] Adhesive mounting base is not required. "Quick Bonding Gel" has maximum temperature range of 180 ° F (82°C).  <b>Supplied Accessories</b> 080A109 Petro Wax (1) 080A15 Adhesive Mounting Base (1) ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)										
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. ICP® is a registered trademark of PCB group, Inc.			<table border="1" data-bbox="1129 1300 2013 1398"> <tr> <td>Entered: DMO</td> <td>Engineer: DMO</td> <td>Sales: WDC</td> <td>Approved: BAM</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 06/25/2002</td> <td>Date: 06/25/2002</td> <td>Date: 06/25/2002</td> <td>Date: 07/02/2002</td> <td><b>353-2170-80</b></td> </tr> </table> <p data-bbox="1140 1425 1524 1495"><b>PCB PIEZOTRONICS</b> VIBRATION DIVISION</p> <p data-bbox="1570 1425 1871 1521">Address: 3425 Walden Avenue Depew, NY 14043 United States Phone: 888-684-0013</p>	Entered: DMO	Engineer: DMO	Sales: WDC	Approved: BAM	Spec Number:	Date: 06/25/2002	Date: 06/25/2002	Date: 06/25/2002	Date: 07/02/2002	<b>353-2170-80</b>
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