


Model Number 621B51	HIGH FREQUENCY ICP® ACCELEROMETER		Revision B ECN #: 14104												
Performance Sensitivity (±5 %) Measurement Range Frequency Range (±5 %) Frequency Range (±10 %) Frequency Range (±3 dB) Resonant Frequency Non-Linearity Transverse Sensitivity	ENGLISH 100 mV/g ±50 g 144 to 600000 cpm 102 to 900000 cpm 48 to 1200000 cpm 2100 kcpm ±1 % ≤5 %	SI 10.2 mV/(m/s ²) ±490 m/s ² 2.4 to 10000 Hz 1.7 to 15000 Hz 0.8 to 20000 Hz 35 kHz ±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.) M - Metric Mount Supplied Accessory: Model M081B05 Mounting stud, 10-32 to M6 x 0.75, BeCu with shoulder Notes [1] Typical. [2] Typical value. [3] Conversion Factor 1g = 9.81 m/s ² . [4] The high frequency tolerance is accurate within ±10% of the specified frequency. [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 PS023 for details.												
Environmental Overload Limit (Shock) Temperature Range	5000 g pk -65 to +250 °F	49050 m/s ² pk -54 to +121 °C													
Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Broadband Electrical Noise (1 to 10000 Hz) Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz) Electrical Isolation (Base)	≤5.0 sec ≥0.2 sec 18 to 28 VDC 2 to 20 mA <150 Ohm 8 to 12 VDC 100 µV 30 µg/√Hz 10 µg/√Hz 5 µg/√Hz >10 ⁹ Ohm	≤5.0 sec ≥0.2 sec 18 to 28 VDC 2 to 20 mA <150 Ohm 8 to 12 VDC 981 µm/sec ² 294 (µm/sec ² /√Hz) 98.1 (µm/sec ² /√Hz) 49.5 (µm/sec ² /√Hz) >10 ⁹ Ohm	Supplied Accessories ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency ()												
Physical Size (Hex x Height) Weight Mounting Thread Mounting Torque Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position	11/16 in x 1.03 in 1.06 oz 10-32 Female 10 to 20 in-lb Ceramic Shear Stainless Steel Welded Hermetic 10-32 Coaxial Jack Side	17.5 mm x 26.2 mm 30 gm 10-32 Female 1.13 to 2.26 Nm Ceramic Shear Stainless Steel Welded Hermetic 10-32 Coaxial Jack Side	[1] [2] [1] [2] [6]												
<div style="text-align: center;"> <p>Typical Sensitivity Deviation vs Temperature</p> <table border="1"> <caption>Approximate data points from the graph</caption> <thead> <tr> <th>Temperature (°F)</th> <th>Sensitivity Deviation (%)</th> </tr> </thead> <tbody> <tr><td>-100</td><td>-15</td></tr> <tr><td>0</td><td>-5</td></tr> <tr><td>100</td><td>0</td></tr> <tr><td>200</td><td>3</td></tr> <tr><td>300</td><td>5</td></tr> </tbody> </table> </div>				Temperature (°F)	Sensitivity Deviation (%)	-100	-15	0	-5	100	0	200	3	300	5
Temperature (°F)	Sensitivity Deviation (%)														
-100	-15														
0	-5														
100	0														
200	3														
300	5														
<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>															
<table border="1"> <tr> <td>Entered: JMF</td> <td>Engineer: DPS</td> <td>Sales: NJF</td> <td>Approved: BLS</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 10/03/2001</td> <td>Date: 10/05/2001</td> <td>Date: 10/05/2001</td> <td>Date: 06/17/2004</td> <td>10315</td> </tr> </table>		Entered: JMF	Engineer: DPS	Sales: NJF	Approved: BLS	Spec Number:	Date: 10/03/2001	Date: 10/05/2001	Date: 10/05/2001	Date: 06/17/2004	10315	<div style="display: flex; align-items: center;">  <div> <p>3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 716-684-0003 Fax: 716-684-3823 E-mail: imi@pcb.com Web site: www.imi-sensors.com</p> </div> </div>			
Entered: JMF	Engineer: DPS	Sales: NJF	Approved: BLS	Spec Number:											
Date: 10/03/2001	Date: 10/05/2001	Date: 10/05/2001	Date: 06/17/2004	10315											

--	--