

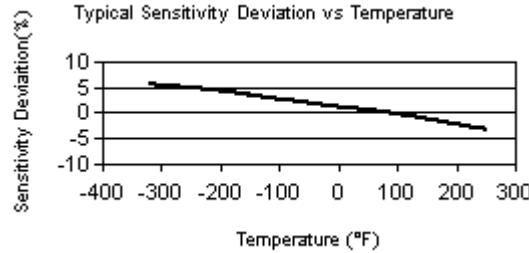
Model Number <b>351B04</b>	<b>ICP® ACCELEROMETER</b>	Revision: F ECN #: 41302
-------------------------------	---------------------------	-----------------------------

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	
Measurement Range	± 150 g pk	± 1472 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	1 to 6000 Hz	1 to 6000 Hz	
Frequency Range(± 10 %)	0.7 to 9000 Hz	0.7 to 9000 Hz	
Frequency Range(± 3 dB)	0.35 to 15,000 Hz	0.35 to 15,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Broadband Resolution	0.01 g rms	0.1 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
<b>Environmental</b>			
Overload Limit	± 5000 g pk	± 49,050 m/s <sup>2</sup> pk	
Temperature Range	-320 to +250 °F	-196 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	<0.0005 g/με	<0.005 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	3 to 10 VDC	3 to 10 VDC	
Discharge Time Constant	0.5 to 1.5 sec	0.5 to 1.5 sec	
Spectral Noise(10 Hz)	220 μg/√Hz	2156 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	62 μg/√Hz	607 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	16 μg/√Hz	156 (μm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Weight	0.33 oz	9.4 gm	[1]
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	

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.		
<b>J - Ground Isolated</b>		
Frequency Range(5 %)	5 Hz	5 Hz
Frequency Range(10 %)	8 Hz	8 Hz
Resonant Frequency	≥ 22 kHz	≥ 22 kHz
Electrical Isolation(Base)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm
Size - Hex x Height	0.50 in x 1.24 in	12.7 mm x 31.5 mm

**NOTES:**  
 [1] Typical.  
 [2] Zero-based, least-squares, straight line method.  
 [3] Transverse sensitivity is typically ≤ 3%.  
 [4] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
 Model 081B05 Mounting Stud (10-32 to 10-32) (1)  
 Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)  
 Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (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.

Entered: AP	Engineer: MAM	Sales: WDC	Approved: BAM	Spec Number:
Date: 5/17/2013	Date: 5/17/2013	Date: 5/17/2013	Date: 5/17/2013	<b>351-2040-80</b>



3425 Walden Avenue, Depew, NY 14043

**Phone: 716-684-0001**  
**Fax: 716-684-0987**  
**E-Mail: info@pcb.com**