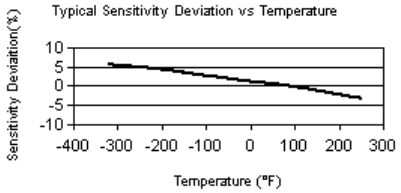
Model Number **351B42**	**ACCELEROMETER, ICP®**	Revision F ECN #: 14901

Performance	**ENGLISH**	**SI**	
Sensitivity (±10 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	±15 g pk	±147 m/s² pk	
Frequency Range (±5 %)	1 to 2000 Hz	1 to 2000 Hz	
Frequency Range (±10 %)	0.7 to 3500 Hz	0.7 to 3500 Hz	
Frequency Range (±3 dB)	0.35 to 5000 Hz	0.35 to 5000 Hz	
Resonant Frequency	≥15 kHz	≥15 kHz	
Broadband Resolution	0.0005 g rms	0.005 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤5 %	≤5 %	[3]
Environmental			
Overload Limit	±1000 g pk	±9810 m/s² pk	
Temperature Range (Operating)	-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/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	≤100 ohm	≤100 ohm	
Output Bias Voltage	3 to 10 VDC	3 to 10 VDC	
Discharge Time Constant	>0.5 sec	>0.5 sec	
Spectral Noise (10 Hz)	22 μg/√Hz	216 (μm/sec²)/√Hz	[1]
Spectral Noise (100 Hz)	6 μg/√Hz	58.9 (μm/sec²)/√Hz	[1]
Spectral Noise (1 kHz)	1.6 μg/√Hz	15.7 (μm/sec²)/√Hz	[1]
Electrical Isolation	None (Optional) ohm	None (Optional) ohm	
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Weight	1.4 oz	40 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	

CE[4]



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 standard model except where noted below. More than one option maybe used.)

J - Ground Isolated

Frequency Range (5 %)	2 Hz	2 Hz
Frequency Range (10 %)	3.5 Hz	3.5 Hz
Resonant Frequency	≥13 kHz	≥13 kHz
Electrical Isolation (Base)	$>10^8$ ohm	$>10^8$ ohm

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

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

Entered: DJS	Engineer: WDC	Sales: BAM	Approved: JMF	Spec Number:
Date: 05/20/2002	Date: 05/20/2002	Date: 05/21/2002	Date: 06/04/2002	**351-2420-80**

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