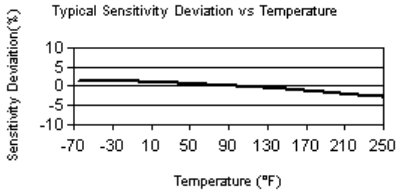
Model Number **353B33**	**ACCELEROMETER, ICP®**	Revision N ECN #: 26810

Performance	**ENGLISH**	**SI**	
Sensitivity (±5 %)	100 mV/g	10.19 mV/(m/s²)	[2]
Measurement Range	±50 g pk	±491 m/s² pk	
Frequency Range (±5 %)	1 to 4000 Hz	1 to 4000 Hz	
Frequency Range (±10 %)	0.7 to 6500 Hz	0.7 to 6500 Hz	
Frequency Range (±3 dB)	0.35 to 12000 Hz	0.35 to 12000 Hz	
Resonant Frequency	≥22 kHz	≥22 kHz	
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[3]
Transverse Sensitivity	≤5 %	≤5 %	[4]
Environmental			
Overload Limit (Shock)	±10000 g pk	±98100 m/s² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Base Strain Sensitivity	0.0002 g/με	0.002 (m/s²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤100 Ohm	≤100 Ohm	
Output Bias Voltage	7.5 to 11.5 VDC	7.5 to 11.5 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time (within 10% of bias)	<25 sec	<25 sec	
Spectral Noise (1 Hz)	320 μg/√Hz	3139 (μm/sec^2)/√Hz	[1]
Spectral Noise (10 Hz)	70 μg/√Hz	687 (μm/sec^2)/√Hz	[1]
Spectral Noise (100 Hz)	18 μg/√Hz	177 (μm/sec^2)/√Hz	[1]
Spectral Noise (1 kHz)	6.4 μg/√Hz	63 (μm/sec^2)/√Hz	[1]
Physical			
Size (Height)	0.93 in	23.6 mm	
Weight	0.95 oz	27 gm	[1]
Sensing Element	Quartz	Quartz	
Size (Hex)	0.75 in	19.1 mm	
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	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	

CE[5]



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.)

B - Low bias electronics			[2]
Output Bias Voltage	4.5 to 7.5 VDC	4.5 to 7.5 VDC	
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Constant Current Excitation	1 to 20 mA	1 to 20 mA	
Measurement Range	±30 g pk	±294 m/s² pk	
J - Ground Isolated			
Frequency Range (±5 %)	1 to 4000 Hz	1 to 4000 Hz	
Frequency Range (±10 %)	0.7 to 6000 Hz	0.7 to 6000 Hz	
Resonant Frequency	≥18 kHz	≥18 kHz	
Electrical Isolation (Base)	≥10^8 Ohm	≥10^8 Ohm	

Q - Extended discharge time constant			[2]
Frequency Range (±5 %)	0.1 to 4000 Hz	0.1 to 4000 Hz	
Frequency Range (±10 %)	0.07 to 6500 Hz	0.07 to 6500 Hz	
Discharge Time Constant	≥10 sec	≥10 sec	
Settling Time (within 10% of bias)	<120 sec	<120 sec	

Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz

W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

Notes

[1] Typical.
[2] B and Q options supplied with a sensitivity tolerance of ± 10 %.
[3] Zero-based, least-squares, straight line method.
[4] Transverse sensitivity is typically <= 3%.
[5] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

080A109 Petro Wax (1)
080A12 Adhesive Mounting Base (1)
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: BLS	Engineer: BAM	Sales: WDC	Approved: BLS	Spec Number:
Date: 07/10/2007	Date: 07/02/2007	Date: 07/02/2007	Date: 07/13/2007	**353-2330-80**

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