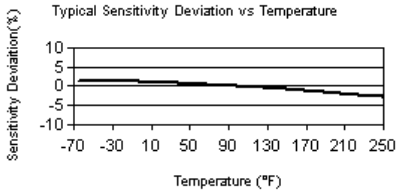
Model Number **353B01**	**ICP® ACCELEROMETER**	Revision J ECN #: 35369

Performance	**ENGLISH**	**SI**	
Sensitivity (±5 %)	20 mV/g	2.04 mV/(m/s²)	[2]
Measurement Range	±250 g pk	±2453 m/s² pk	
Frequency Range (±5 %)	1 to 7000 Hz	1 to 7000 Hz	
Frequency Range (±10 %)	0.7 to 10000 Hz	0.7 to 10000 Hz	
Frequency Range (±3 dB)	0.35 to 18000 Hz	0.35 to 18000 Hz	
Resonant Frequency	≥38 kHz	≥38 kHz	
Broadband Resolution (1 to 10000 Hz)	0.003 g rms	0.03 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	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤0.0005 g/με	≤0.005 (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	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec	
Settling Time (within 10% of bias)	<5 sec	<5 sec	
Spectral Noise (1 Hz)	1600 μg/√Hz	15700 (μm/sec² /√Hz	[1]
Spectral Noise (10 Hz)	350 μg/√Hz	3433 (μm/sec² /√Hz	[1]
Spectral Noise (100 Hz)	90 μg/√Hz	883 (μm/sec² /√Hz	[1]
Spectral Noise (1 kHz)	32 μg/√Hz	314 (μm/sec² /√Hz	[1]
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.5 in x 0.81 in	12.7 mm x 20.6 mm	
Weight	0.35 oz	10 gm	[1]
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.)

J - Ground Isolated

Frequency Range (±5 %)	1 to 5000 Hz	1 to 5000 Hz
Frequency Range (±10 %)	0.7 to 8000 Hz	0.7 to 8000 Hz
Resonant Frequency	≥22 kHz	≥22 kHz
Electrical Isolation (Base)	$\geq 10^8$ ohm	$\geq 10^8$ ohm

Q - Extended discharge time constant

Frequency Range (±5 %)	0.1 to 7000 Hz	0.1 to 7000 Hz
Frequency Range (±10 %)	0.07 to 10000 Hz	0.07 to 10000 Hz
Discharge Time Constant	>10 sec	>10 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 from 0.5 to 10 Hz

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

TLA - TEDS LMS International - Free Format

TLB - TEDS LMS International - Automotive Format

TLC - TEDS LMS International - Aeronautical Format

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

Excitation Voltage	22 to 30 VDC	22 to 30 VDC
Output Bias Voltage	8.5 to 14.5 VDC	8.5 to 14.5 VDC
Size (Height)	.82 in	20.8 mm
Sensitivity (±10 %)	20 mV/g	2.04 mV/V/(m/s²)

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

080A Adhesive Mounting Base (1)
080A109 Petro Wax (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: DMW	Engineer: BAM	Sales: WDC	Approved: EB	Spec Number:
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PCB PIEZOTRONICS VIBRATION DIVISION
3425 Walden Avenue
Depew, NY 14043
UNITED STATES
Phone: 888-684-0013
Fax: 716-685-3886
E-mail: vibration@pcb.com
Web site: www.pcb.com