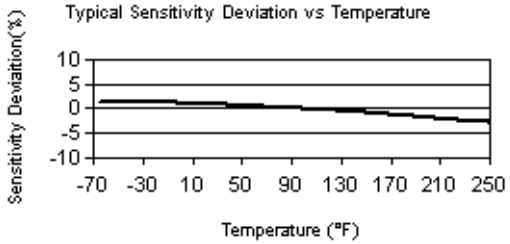
Model Number 353B34	ICP® ACCELEROMETER	Revision: N ECN #: 53702

Performance	ENGLISH	SI	
Sensitivity(± 5 %)	100 mV/g	10.19 mV/(m/s²)	[1]
Measurement Range	± 50 g pk	± 491 m/s² pk	
Frequency Range(± 5 %)	1 to 4,000 Hz	1 to 4,000 Hz	
Frequency Range(± 10 %)	0.7 to 7,000 Hz	0.7 to 7,000 Hz	
Frequency Range(± 3 dB)	0.35 to 12,000 Hz	0.35 to 12,000 Hz	
Resonant Frequency	≥ 22 kHz	≥ 22 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s² rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[2]
Base Strain Sensitivity	0.0002 g/με	0.002 (m/s²)/με	[2]
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	7.5 to 12.0 VDC	7.5 to 12.0 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	3,139 (μm/sec²)/√Hz	[2]
Spectral Noise(10 Hz)	70 μg/√Hz	687 (μm/sec²)/√Hz	[2]
Spectral Noise(100 Hz)	18 μg/√Hz	177 (μm/sec²)/√Hz	[2]
Spectral Noise(1 kHz)	6.4 μg/√Hz	63 (μm/sec²)/√Hz	[2]
Physical			
Size (Height x Hex)	1.26 in x 0.75 in	32.0 mm x 19.1 mm	
Weight	0.96 oz	27 gm	[2]
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	

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 the standard model except where noted below. More than one option may be used.

B - Low bias electronics			[1]
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			[1]
Frequency Range± 5 %	1 to 4,000 Hz	1 to 4,000 Hz	
Frequency Range± 10 %	0.7 to 6,000 Hz	0.7 to 6,000 Hz	
Resonant Frequency	≥ 18 kHz	≥ 18 kHz	
Electrical Isolation(Base)	≥ 10^8 Ohm	≥ 10^8 Ohm	
Size - Hex	0.75 in	19.1 mm	
Size - Height	1.23 in	31.2 mm	
Q - Extended discharge time constant			[1]
Frequency Range± 5 %	0.1 to 4,000 Hz	0.1 to 4,000 Hz	
Frequency Range± 10 %	0.07 to 7,000 Hz	0.07 to 7,000 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 cal from 0.5 to 10 Hz (1)			
W - Water Resistant Cable			
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable	
Electrical Connection Position	Top	Top	

NOTES:

[1]B and Q options supplied with a sensitivity tolerance of ± 10 %.
[2]Typical.
[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:

Model 080A109 Petro Wax (1)
Model 080A12 Adhesive Mounting Base (1)
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 ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: ND	Engineer: NJF	Sales: KK	Approved: NJF	Spec Number:
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