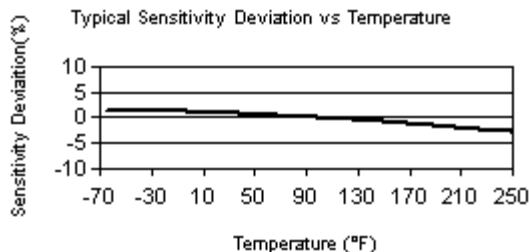


Model Number
353B13

ICP® ACCELEROMETER

Revision: R
ECN #: 44362

	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	5 mV/g	0.51 mV/(m/s ²)	
Measurement Range	± 1000 g pk	± 9810 m/s ² pk	
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 10 %)	0.7 to 20,000 Hz	0.7 to 20,000 Hz	
Frequency Range(± 3 dB)	0.35 to 30,000 Hz	0.35 to 30,000 Hz	
Resonant Frequency	≥ 70 kHz	≥ 70 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.01 g rms	0.1 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.005 g/με	≤ 0.05 (m/s ²)/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 2.0 sec	0.5 to 2.0 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	6400 μg/√Hz	62,784 (μm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	1400 μg/√Hz	13,734 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	360 μg/√Hz	3532 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	128 μg/√Hz	1256 (μm/sec ²)/√Hz	[1]
Physical			
Size (Height x Hex)	0.59 in x 9/32 in	15 mm x 9/32 in	
Weight	0.06 oz	1.7 gm	[1]
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Electrical Connector	Integral Cable	Integral Cable	
Cable Termination	10-32 Coaxial Plug	10-32 Coaxial Plug	
Cable Length	10 ft	3.0 m	
Cable Type	031 Twisted Pair	031 Twisted Pair	
Mounting Thread	5-40 Male	5-40 Male	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	



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.

A - Adhesive Mount

Supplied Accessory : Model 080A90 Quick Bonding Gel

B - Low bias electronics

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	± 600 g pk	± 5886 m/s ² pk

J - Ground Isolated

Frequency Range(± 5 %)	1 to 8000 Hz	1 to 8000 Hz
Frequency Range(± 10 %)	0.7 to 15,000 Hz	0.7 to 15,000 Hz
Resonant Frequency	≥ 56 kHz	≥ 56 kHz
Electrical Isolation(Base)	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm
Size - Hex x Height	3/8 in x 0.77 in	3/8 in x 19.6 mm
Weight	0.10 oz	2.9 gm

M - Metric Mount

Mounting Thread	M3 x 0.50 Male	M3 x 0.50 Male
Supplied Accessory : Model M080A15 Adhesive Mounting Base (1) replaces Model 080A15		

Q - Extended discharge time constant

Frequency Range(± 5 %)	0.15 to 10,000 Hz	0.15 to 10,000 Hz
Frequency Range(± 10 %)	0.1 to 20,000 Hz	0.1 to 20,000 Hz
Discharge Time Constant	>5 sec	>5 sec
Settling Time(within 10% of bias)	<45 sec	<45 sec
Supplied Accessory : Model ACS-97 Single axis, low frequency phase and amplitude response cal from 1 to 10 Hz (1)		

W - Water Resistant Cable

Temperature Range(Operating)	-20 to +220 °F	-29 to +104 °C
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Cable Length	10 ft	10 ft
Cable Type	018 Coaxial	018 Coaxial

NOTES:

- [1]Typical.
- [2]Zero-based, least-squares, straight line method.
- [3]Transverse sensitivity is typically ≤ 3%.
- [4]See PCB Declaration of Conformance PS135 for details.

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
Model 080A15 Adhesive Mounting Base (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: JM	Engineer: NJF	Sales: RWM	Approved: NJF	Spec Number:
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