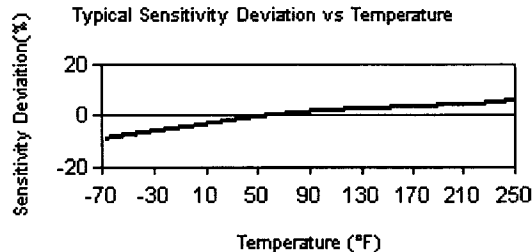


Model Number
340A16

ICP® ACCELEROMETER

Revision: B
ECN #: 14822

	ENGLISH	SI	
Performance			
Sensitivity (±10 %)	9.8 mV/g	1.0 mV/(m/s ²)	
Measurement Range	±500 g pk	± 4900 m/s ² pk	
Frequency Range (±5 %)	1 to 12000 Hz	1 to 12000 Hz	
Frequency Range (±10 %)	0.7 to 18000 Hz	0.7 to 18000 Hz	
Frequency Range (±3 dB)	0.35 to 25000 Hz	0.35 to 25000 Hz	
Resonant Frequency	≥50 kHz	≥50 kHz	
Broadband Resolution (1 to 10000 Hz)	0.0006 g rms	0.006 m/s ² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤5 %	≤5 %	[3]
Environmental			
Overload Limit	±10000 g pk	± 98100 m/s ² pk	
Temperature Range	-67 to +257 °F	-55 to +125 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	≤0.006 g/με	≤ 0.06 (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 ohms	≤100 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.4 to 1.2 sec	0.4 to 1.2 sec	
Settling Time (within 10% of bias)	<10 sec	<10 sec	
Spectral Noise (1 Hz)	234 μg/√Hz	2300 (μm/s ²)/√Hz	[1]
Spectral Noise (10 Hz)	50 μg/√Hz	490 (μm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	10 μg/√Hz	98 (μm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	5 μg/√Hz	49 (μm/s ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.31 in x 0.66 in	8.0 mm x 16.8 mm	
Weight	0.07 oz	2.0 gm	[1]
Electrical Connector	M3 Coaxial Jack	M3 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	M3 x 0.50 Male	M3 x 0.50 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 [5]
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

J - Ground Isolated

Frequency Range (+5 %)	10 kHz	10 kHz
Frequency Range (+10 %)	15 kHz	15 kHz
Frequency Range (+3 dB)	20 kHz	20 kHz
Resonant Frequency	≥40 kHz	≥ 40 kHz
Electrical Isolation (Base)	>10 ⁸ ohms	>10 ⁸ ohms
Size (Hex x Height)	0.39 in x 0.79 in	10.0 mm x 20.1 mm
Weight	0.11 oz	3.0 gm

W - Water Resistant Cable

Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Top	Top

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.
- [5] Mounting stud removed, adhesive mounting base not required.

SUPPLIED ACCESSORIES:

- Model 080A109 Petro Wax (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
- Model M080A15 Adhesive Mounting Base (1)

Entered: <i>RJL</i>	Engineer: <i>DJS</i>	Sales: <i>SL</i>	Approved: <i>BM</i>	Spec Number:
Date: <i>7/31/02</i>	Date: <i>7/31/02</i>	Date: <i>7/31/02</i>	Date: <i>7/31/02</i>	13563

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