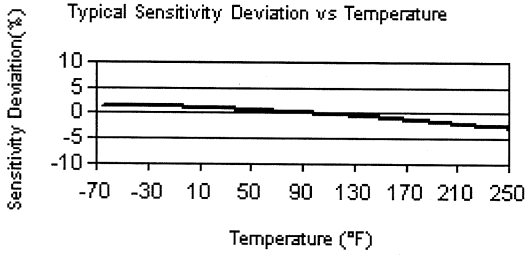
Model Number	ICP® ACCELEROMETER	Revision: G
301A11		ECN #: 20986

Performance	ENGLISH	SI	
Sensitivity (± 2.0 %)	100 mV/g	10.2 mV/(m/s^2)	
Measurement Range	± 50 g pk	± 490 m/s^2 pk	
Frequency Range (± 5 %)	0.5 to 10,000 Hz	0.5 to 10,000 Hz	
Frequency Range (± 10 %)	0.3 to 14,000 Hz	0.3 to 14,000 Hz	
Frequency Range (± 3 dB)	0.2 to 20,000 Hz	0.2 to 20,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Broadband Resolution	0.004 g rms	0.039 m/s^2 rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 3 %	≤ 3 %	
Environmental			
Overload Limit	± 5000 g pk	± 49,050 m/s^2 pk	
Temperature Range	-65 to 250 °F	-54 to 121 °C	
Temperature Response	See Graph	See Graph	
Electrical			
Excitation Voltage	23 to 30 VDC	23 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 ohm	<100 ohm	
Output Bias Voltage	11 to 17 VDC	11 to 17 VDC	
Discharge Time Constant	2.0 to 5.0 sec	2.0 to 5.0 sec	
Settling Time (within 10% of bias)	<12.0 sec	<12.0 sec	
Spectral Noise (10 Hz)	65 µg/√Hz	638 (µm/s^2)/√Hz	[1]
Spectral Noise (100 Hz)	20 µg/√Hz	196 (µm/s^2)/√Hz	[1]
Spectral Noise (1 kHz)	15 µg/√Hz	147 (µm/s^2)/√Hz	[1]
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	1 3/16 in x 1 1/2 in	30.2 mm x 38.1 mm	
Weight	6.2 oz	176 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread (Shaker Mount)	1/4-28 Female	1/4-28 Female	
Mounting Thread (Unit Under Test Mount)	10-32 Female	10-32 Female	

CE [3]



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.

M - Metric Mount [4]

NOTES:

[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.
[4] Sensitivity referenced at 159.2 Hz.

SUPPLIED ACCESSORIES:

Model 080A149 Calibration adaptor, 10-32 to 5-40 (for Model 394A11 calibration standard) (1)
Model 081A08 Mounting Stud (10-32 to 1/4-28) (2)
Model 081A90 Mounting stud, 10-32 to 5-40 (2)
Model 081B05 Mounting Stud (10-32 to 10-32) (2)
Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (2)
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 calibration. (1)
Model M080A149 Mounting adaptor (10-32 to M3 x 0.50) (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (2)
Model M081B20 Mounting Stud 1/4-28 to M6 X 0.75 (2)

Entered: BLS	Engineer: [illegible]	Sales: WR	Approved: [illegible]	Spec Number:
Date: 11-23-04	Date: 11-23-04	Date: 11/23/04	Date: 11/24/04	11291

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