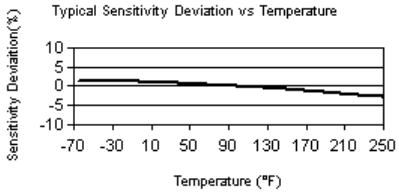
Model Number **301A11**	**ICP® ACCELEROMETER**	Revision G ECN #: 20986

Performance	**ENGLISH**	**SI**	
Sensitivity (±2.0 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	±50 g pk	±490 m/s² pk	
Frequency Range (±5 %)	0.5 to 10000 Hz	0.5 to 10000 Hz	
Frequency Range (±10 %)	0.3 to 14000 Hz	0.3 to 14000 Hz	
Frequency Range (±3 dB)	0.2 to 20000 Hz	0.2 to 20000 Hz	
Resonant Frequency	≥35 kHz	≥35 kHz	
Broadband Resolution	0.004 g rms	0.039 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤3 %	≤3 %	
Environmental			
Overload Limit	±5000 g pk	±49050 m/s² pk	
Temperature Range	-65 to 250 °F	-54 to 121 °C	
Temperature Response	See Graph	See Graph	[1]
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	<100	
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/sec^2)/√Hz	[1]
Spectral Noise (100 Hz)	20 µg/√Hz	196 (µm/sec^2)/√Hz	[1]
Spectral Noise (1 kHz)	15 µg/√Hz	147 (µm/sec^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 standard model except where noted below. More than one option maybe 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
080A149 Calibration adaptor, 10-32 to 5-40 (for Model 394A11 calibration standard) (1)
081A08 Mounting Stud (10-32 to 1/4-28) (2)
081A90 Mounting stud, 10-32 to 5-40 (2)
081B05 Mounting Stud (10-32 to 10-32) (2)
081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (2)
ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)
M080A149 Mounting adaptor (10-32 to M3 x 0.50) (1)
M081B05 Mounting Stud 10-32 to M6 X 0.75 (2)
M081B20 Mounting Stud 1/4-28 to M6 X 0.75 (2)

Entered: BLS	Engineer: GZ	Sales: WDC	Approved: JJB	Spec Number:
Date: 11/23/2004	Date: 11/23/2004	Date: 11/23/2004	Date: 11/24/2004	**11291**

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