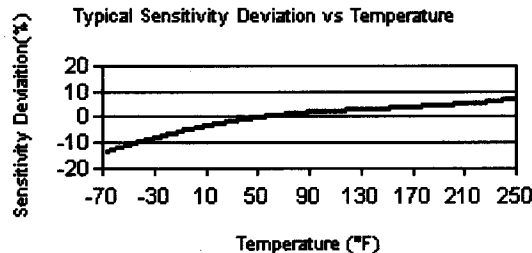


Model Number
356B07

TRIAxIAL ICP® ACCELEROMETER

Revision: H
ECN #: 24345

	ENGLISH	SI	
Performance			
Sensitivity (± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 50 g pk	± 490 m/s ² pk	
Frequency Range (± 5 %)	2 to 5000 Hz	2 to 5000 Hz	
Frequency Range (± 10 %)	1.4 to 7000 Hz	1.4 to 7000 Hz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Broadband Resolution	0.0002 g rms	0.002 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit (Shock)	± 7000 g pk	± 68,600 m/s ² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.001 g/με	0.01 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 ohm	≤ 200 ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.2 to 0.8 sec	0.2 to 0.8 sec	
Settling Time (within 10% of bias)	<5 sec	<5 sec	
Spectral Noise (1 Hz)	80 μg/√Hz	785 (μm/s ²)/√Hz	[1]
Spectral Noise (10 Hz)	15 μg/√Hz	147 (μm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	5 μg/√Hz	49 (μm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	2 μg/√Hz	20 (μm/s ²)/√Hz	[1]
Spectral Noise (10 kHz)	1 μg/√Hz	9.8 (μm/s ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.80 in x 1.03 in x 0.80 in	20.3 mm x 26.2 mm x 20.3 mm	
Weight	1.10 oz	31 gm	[1]
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	
Mounting Torque	10 to 20 in-lb	113 to 225 N-cm	



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 080A109 Petro Wax (1)
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

J - Ground Isolated
Electrical Isolation (Base) >10⁸ ohm >10⁸ ohm
Size - Height x Length x Width .85 in x 1.03 in x .85 in 21.6 mm x 26.2 mm x 21.6 mm
Weight 1.15 oz 33 gm

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

TLA - TEDS LMS International - Free Format
TLB - TEDS LMS International - Automotive Format
TLC - TEDS LMS International - Aeronautical Format
Output Bias Voltage 8.5 to 13 VDC 8.5 to 13 VDC

NOTES:

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

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
Model 080A68 Adhesive mounting base (for Models 356B07 and 356B08) (1)
Model 081B05 Mounting Stud (10-32 to 10-32) (1)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: <i>WJ</i>	Engineer: <i>MB</i>	Sales: <i>WJ</i>	Approved: <i>[Signature]</i>	Spec Number:
Date: <i>5-25-06</i>	Date: <i>7/24/06</i>	Date: <i>8/1/06</i>	Date: <i>8/11/06</i>	9149

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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