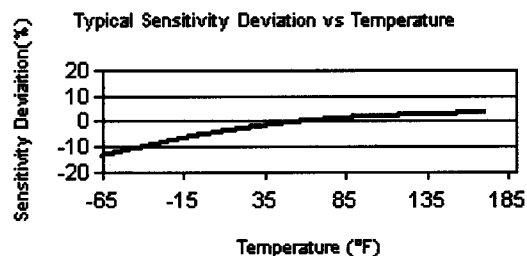


Model Number  
356B08

# TRIAxIAL ICP® ACCELEROMETER

Revision: G  
ECN #: 24345

Performance	ENGLISH	SI	
Sensitivity (± 10 %)	100 mV/g	10 mV/(m/s <sup>2</sup> )	
Measurement Range	± 50 g pk	± 490 m/s <sup>2</sup> pk	
Frequency Range (± 5 %)	0.5 to 5000 Hz	0.5 to 5000 Hz	
Frequency Range (± 10 %)	0.3 to 6500 Hz	0.3 to 6500 Hz	
Resonant Frequency	≥ 20 kHz	≥ 20 kHz	
Broadband Resolution	0.0001 g rms	0.001 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit (Shock)	± 7000 g pk	± 68,600 m/s <sup>2</sup> pk	
Temperature Range (Operating)	-65 to +170 °F	-54 to +77 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.001 g/με	0.01 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
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	1.0 to 3.0 sec	1.0 to 3.0 sec	
Settling Time (within 10% of bias)	<10 sec	<10 sec	
Spectral Noise (1 Hz)	40 μg/√Hz	392 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (10 Hz)	10 μg/√Hz	98 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (100 Hz)	3 μg/√Hz	29.4 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (1 kHz)	1 μg/√Hz	9.8 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (10 kHz)	0.5 μg/√Hz	4.9 (μm/s <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Epoxy	Epoxy	
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	0.72 oz	20 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	



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

**J - Ground Isolated**  
Electrical Isolation (Base) >10<sup>8</sup> ohm >10<sup>8</sup> ohm  
Size - Height x Length x Width 0.85 in x 1.03 in x 0.85 in 21.6 mm x 26.2 mm x 21.6 mm  
Weight 0.78 oz 22 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 13.0 VDC 8.5 to 13.0 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: JH	Engineer: MB	Sales: WC	Approved: JH	Spec Number:
Date: 5/25/04	Date: 7/24/04	Date: 8/1/06	Date: 8/11/04	9150

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