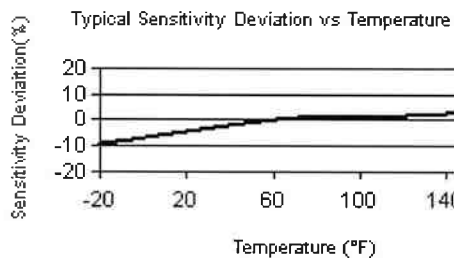


Model Number
356B18

TRIAxIAL ICP® ACCELEROMETER

Revision: G
ECN #: 26468

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	1000 mV/g	102 mV/(m/s ²)	
Measurement Range	± 5 g pk	± 49 m/s ² pk	
Frequency Range(± 5 %)	0.5 to 3000 Hz	0.5 to 3000 Hz	
Frequency Range(± 10 %)	0.3 to 5000 Hz	0.3 to 5000 Hz	
Resonant Frequency	≥ 20 kHz	≥ 20 kHz	
Phase Response(± 5 °)(at 70°F [21°C])	2 to 2000 Hz	2 to 2000 Hz	[1]
Broadband Resolution(1 to 10,000 Hz)	0.00005 g rms	0.0005 m/s ² rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 5000 g pk	
Temperature Range(Operating)	-20 to +170 °F	-29 to +77 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.0007 g/µε	0.007 (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	≤ 600 ohm	≤ 600 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.8 to 3.0 sec	0.8 to 3.0 sec	
Settling Time(within 10% of bias)	<12 sec	<12 sec	
Spectral Noise(1 Hz)	11.4 µg/√Hz	112 (µm/s ²)/√Hz	[1]
Spectral Noise(10 Hz)	4.0 µg/√Hz	39 (µm/s ²)/√Hz	[1]
Spectral Noise(100 Hz)	1.2 µg/√Hz	12 (µm/s ²)/√Hz	[1]
Spectral Noise(1 kHz)	0.4 µg/√Hz	4.4 (µm/s ²)/√Hz	[1]
Physical			
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 26.1 mm x 20.3 mm	[1]
Weight	0.88 oz	25 gm	
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	



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
Mounting Thread: None - Adhesive Mount Only
None - Adhesive Mount Only
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: 0.85 in x 1.03 in x 0.85 in 21.6 mm x 26.1 mm x 21.6 mm

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
TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4
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>BIS</i>	Engineer: <i>JS</i>	Sales: <i>ROZ</i>	Approved: <i>[Signature]</i>	Spec Number:
Date: <i>5-16-07</i>	Date: <i>5/16/07</i>	Date: <i>5/16/07</i>	Date: <i>5/16/07</i>	11615

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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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