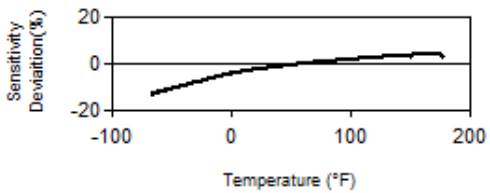
Model Number	TRIAXIAL ICP® ACCELEROMETER	Revision: A
356M132		ECN #: 47177

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	500 mV/g	51 mV/(m/s²)	
Measurement Range	± 10 g pk	± 98 m/s² pk	
Frequency Range(± 5 %)	0.5 to 3000 Hz	0.5 to 3000 Hz	
Frequency Range(± 10 %)	0.3 to 4000 Hz	0.3 to 4000 Hz	
Resonant Frequency	≥ 14 kHz	≥ 14 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.00006 g rms	0.0006 m/s² rms	[1]
Phase Response(± 5 °)(at 70°F [21°C])	2 to 4000 Hz	2 to 4000 Hz	
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,000 m/s² pk	
Temperature Range(Operating)	-65 to +176 °F	-54 to +80 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.001 g/με	0.01 (m/s²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 300 Ohm	≤ 300 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.8 to 2.0 sec	0.8 to 2.0 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	18 μg/√Hz	180 (μm/sec^2)/√Hz	[1]
Spectral Noise(10 Hz)	6 μg/√Hz	60 (μm/sec^2)/√Hz	[1]
Spectral Noise(100 Hz)	2 μg/√Hz	20 (μm/sec^2)/√Hz	[1]
Spectral Noise(1 kHz)	0.7 μg/√Hz	7 (μm/sec^2)/√Hz	[1]
Spectral Noise(10 kHz)	0.2 μg/√Hz	2 (μm/sec^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)	0.55 in x 0.80 in x 0.55 in	14.0 mm x 20.3 mm x 14.0 mm	
Weight	0.42 oz	11.8 gm	[1]
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	5-40 Female	5-40 Female	
Mounting Torque	4 to 5 in-lb	45 to 56 N-cm	

Typical Sensitivity Deviation vs Temperature



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.

A - Adhesive Mount
Supplied Accessory : Model 080A109 Petro Wax (1)
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)
Supplied Accessory : Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

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

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

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 080A145 Adhesive Mounting Base (1)
Model 081A27 Mounting Stud (5-40 to 5-40) (1)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

Entered: LK	Engineer: BAM	Sales: WDC	Approved: BAM	Spec Number:
Date: 8/24/2017	Date: 8/24/2017	Date: 8/24/2017	Date: 8/24/2017	24149

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