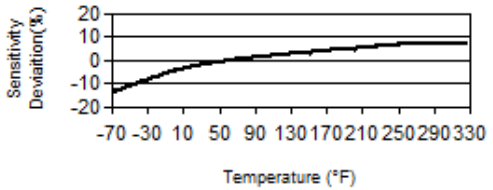
Model Number	TRIAXIAL ICP® ACCELEROMETER	Revision: E
356A25		ECN #: 49201

Performance	**ENGLISH**	**SI**	
Sensitivity(± 10 %)	25 mV/g	2.6 mV/(m/s²)	
Measurement Range	± 200 g pk	± 1960 m/s² pk	
Frequency Range(± 5 %)	1 to 5000 Hz	1 to 5000 Hz	
Frequency Range(± 10 %)	0.5 to 6500 Hz	0.5 to 6500 Hz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 7000 g pk	± 68,600 m/s² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[3]
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.001 g/με	0.01 (m/s²)/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	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	70 μg/√Hz	686 (μm/sec^2)/√Hz	[1]
Spectral Noise(10 Hz)	15 μg/√Hz	147 (μm/sec^2)/√Hz	[1]
Spectral Noise(100 Hz)	5 μg/√Hz	49 (μm/sec^2)/√Hz	[1]
Spectral Noise(1 kHz)	3 μg/√Hz	29.4 (μm/sec^2)/√Hz	[1]
Spectral Noise(10 kHz)	2 μg/√Hz	19.6 (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	0.37 oz	10.5 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	113 to 225	

CE [5]

Typical Sensitivity Deviation vs Temperature



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.

HT - High temperature, extends normal operation temperatures

Frequency Range(± 5 %)	2 to 5000 Hz	2 to 5000 kHz	
Frequency Range(± 10 %)	1.4 to 6500 Hz	1.4 to 6500 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0003 g rms	0.003 μm/sec^2 rms	[1]
Temperature Range(Operating)	-65 to +325 °F	-54 to +163 °C	
Excitation Voltage	23 to 30 VDC	23 to 30 VDC	
Output Bias Voltage	7 to 16 VDC	7 to 16 VDC	[2]
Discharge Time Constant	0.1 to 0.6 sec	0.1 to 0.6 sec	
Spectral Noise(1 Hz)	190 μg/√Hz	1864 (μm/sec^2)/√Hz	[1]
Spectral Noise(10 Hz)	35 μg/√Hz	345 (μm/sec^2)/√Hz	[1]
Spectral Noise(100 Hz)	20 μg/√Hz	196 (μm/sec^2)/√Hz	[1]
Spectral Noise(1 kHz)	3 μg/√Hz	29.4 (μm/sec^2)/√Hz	[1]

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

Temperature Range	-10 to +200 °F	-23 to +93 °C
Excitation Voltage	20 to 30 VDC	20 to 30 VDC
Output Bias Voltage	8.5 to 13 VDC	8.5 to 13 VDC

W - Water Resistant Cable

Electrical Connector	Sealed Integral Cable	Sealed Integral Cable

NOTES:

[1] Typical.
[2] TEDS option adds 1.0 VDC to bias voltage.
[3] Valid from +250 to +325 °F (+121 to +163 °C), with HT option only.
[4] Zero-based, least-squares, straight line method.
[5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
Model 080A12 Adhesive Mounting Base (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: LK	Engineer: AW	Sales: WDC	Approved: BAM	Spec Number:
Date: 3/12/2019	Date: 3/12/2019	Date: 3/12/2019	Date: 3/12/2019	**12854**

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