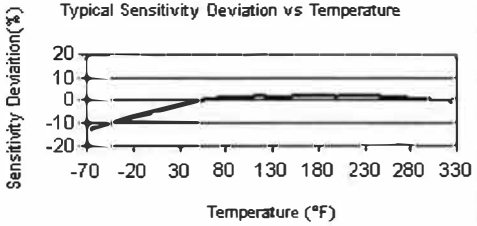
Model Number	ICP® ACCELEROMETER	Revision: H
352C33		ECN #: 28610

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	± 50 g pk	± 490 m/s² pk	
Frequency Range(± 5 %)	0.5 to 10,000 Hz	0.5 to 10,000 Hz	
Frequency Range(± 10 %)	0.3 to 15,000 Hz	0.3 to 15,000 Hz	
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.00015 g rms	0.0015 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[5]
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,000 m/s² pk	
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C	[3]
Temperature Response	See Graph	See Graph	[3][1]
Base Strain Sensitivity	0.003 g/με	0.029 (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	≤ 200 ohm	≤ 200 ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	1.0 to 2.5 sec	1.0 to 2.5 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	39 μg/√Hz	380 (μm/s²)/√Hz	[1]
Spectral Noise(10 Hz)	11 μg/√Hz	110 (μm/s²)/√Hz	[1]
Spectral Noise(100 Hz)	3.4 μg/√Hz	33 (μm/s²)/√Hz	[1]
Spectral Noise(1 kHz)	1.4 μg/√Hz	14 (μm/s²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	0.44 in x 0.62 in	11.2 mm x 15.7 mm	
Weight	0.20 oz	5.8 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	
Mounting Torque	10 to 20 in-lb	113 to 226 N-cm	

CE [6]

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			[3]
Frequency Range(5 %)	6 to 10,000 Hz	6 to 10,000 Hz	
Frequency Range(10 %)	4.5 to 15,000 Hz	4.5 to 15,000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.0009 g rms	0.009 m/s² rms	
Temperature Range(Operating)	-65 to +325 °F	-54 to +163 °C	
Excitation Voltage	22 to 30 VDC	22 to 30 VDC	
Discharge Time Constant	0.07 to 0.15 sec	0.07 to 0.15 sec	
Spectral Noise(1 Hz)	107 μg/√Hz	1050 (μm/s²)/√Hz	
Spectral Noise(10 Hz)	58 μg/√Hz	570 (μm/s²)/√Hz	
Spectral Noise(100 Hz)	41 μg/√Hz	400 (μm/s²)/√Hz	
Spectral Noise(1 kHz)	9.8 μg/√Hz	96 (μm/s²)/√Hz	
Output Bias Voltage	10 to 15 VDC	10 to 15 VDC	[2]

Supplied Accessory : Model ACS-68 Single Axis Amplitude Response Calibration from 5 Hz to upper 5% plotted on dB scale replaces Model ACS-1

J - Ground Isolated		
Frequency Range(5 %)	9 kHz	9 kHz
Frequency Range(10 %)	14 kHz	14 kHz
Resonant Frequency	≥ 40 kHz	≥ 40 kHz
Electrical Isolation(Base)	>10^8 ohm	>10^8 ohm
Size - Hex x Height	0.44 in x 0.67 in	11.2 mm x 17.0 mm
Weight	0.21 oz	6.0 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
TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

Temperature Range(Memory Access)	-10 to +200 °F	-23 to +93 °C
Excitation Voltage	20 to 30 VDC	20 to 30 VDC
Output Bias Voltage	7.5 to 13 VDC	7.5 to 13 VDC

W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

NOTES:

[1] Typical.
[2] TEDS option adds 1.0 VDC to bias voltage.
[3] 200°F to 325°F data valid with HT option only.
[4] Zero-based, least-squares, straight line method.
[5] Transverse sensitivity is typically ≤ 3%.
[6] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A Adhesive Mounting Base (1)
Model 080A109 Petro Wax (1)
Model 081B05 Mounting Stud (10-32 to 10-32) (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: BLS	Engineer: BM	Sales: WDC	Approved: EBL	Spec Number:
Date: 4.15.08	Date: 4.15.08	Date: 4.15.08	Date: 4/15/08	13118

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