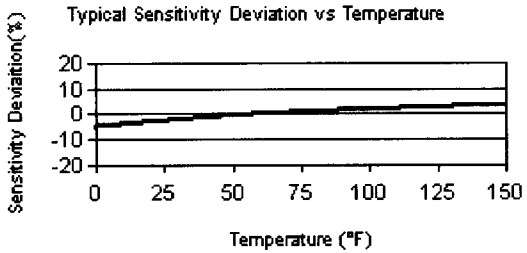
Model Number	ICP® ACCELEROMETER	Revision: K
333B30		ECN #: 25552

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 3000 Hz	0.5 to 3000 Hz	
Resonant Frequency	≥ 40 kHz	≥ 40 kHz	
Phase Response(± 5 °)(at 70°F [21°C])	2 to 3000 Hz	2 to 3000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.00015 g rms	0.0015 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,000 m/s² pk	
Temperature Range(Operating)	0 to +150 °F	-18 to +66 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.01 g/με	0.1 (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	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)	<12 sec	<12 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 (Height x Length x Width)	0.40 in x 0.63 in x 0.40 in	10.2 mm x 16.0 mm x 10.2 mm	
Weight	0.14 oz	4.0 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
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	

CE [4]



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.

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	7.5 to 13 VDC	7.5 to 13 VDC

NOTES:

[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] Transverse sensitivity is typically ≤ 3%.
[4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
Model 080A25 Adhesive base, 0.438" hex, 5-40 tapped hole, aluminum hardcoat. (1)
Model 080A90 Quick Bonding Gel (1)
Model 081A27 Mounting Stud (5-40 to 5-40) (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

Entered:	Engineer:	Sales:	Approved:	Spec Number:
Date: 12-21-06	Date: 12/21/06	Date: 12/21/06	Date: 12/21/06	11827

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