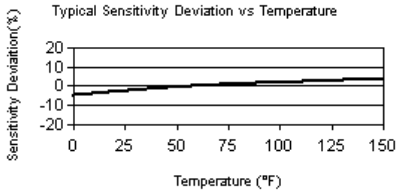
Model Number **333B40**	**ACCELEROMETER, ICP®**	Revision F ECN #: 17564

Performance	**ENGLISH**	**SI**	
Sensitivity (±10 %)	500 mV/g	51.0 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	
Resonant Frequency	≥20 kHz	≥20 kHz	
Phase Response (±5 °)	2 to 3000 Hz	2 to 3000 Hz	
Broadband Resolution (1 to 10000 Hz)	0.00005 g rms	0.0005 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤5 %	≤5 %	[3]
Environmental			
Overload Limit	±5000 g pk	±49000 m/s² pk	
Temperature Range	0 to +150 °F	-18 to +66 °C	
Temperature Response	See Graph	See Graph	[1]
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	≤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	
Spectral Noise (10 Hz)	3.8 μg/√Hz	37 (μm/sec²)/√Hz	[1]
Spectral Noise (100 Hz)	1.1 μg/√Hz	11 (μm/sec²)/√Hz	[1]
Spectral Noise (1 kHz)	0.4 μg/√Hz	3.9 (μm/sec²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Length x Width)	0.68 in x 0.45 in	17.3 mm x 11.4 mm	
Weight	0.26 oz	7.5 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 standard model except where noted below. More than one option maybe 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

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

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

Entered: APC	Engineer: APC	Sales: WDC	Approved: BAM	Spec Number:
Date: 05/14/2003	Date: 05/14/2003	Date: 05/14/2003	Date: 05/15/2003	**11853**

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