

Model Number 333B42		ICP® ACCELEROMETER		Revision: D ECN #: 39946
Performance	ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 10 %)	500 mV/g	51.0 mV/(m/s²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
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	T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4	
Phase Response(± 5 °)	2 to 3000 Hz	2 to 3000 Hz	TLA - TEDS LMS International - Free Format	
Broadband Resolution(1 to 10,000 Hz)	0.00005 g rms	0.0005 m/s² rms [1]	TLB - TEDS LMS International - Automotive Format	
Non-Linearity	≤ 1 %	≤ 1 % [2]	TLC - TEDS LMS International - Aeronautical Format	
Transverse Sensitivity	≤ 5 %	≤ 5 % [3]	TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4	
Environmental			Output Bias Voltage 7.5 to 13 VDC 7.5 to 13 VDC	
Overload Limit	± 5000 g pk	± 49,000 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			NOTES:	
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	[1] Typical.	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	[2] Zero-based, least-squares, straight line method.	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	[3] Transverse sensitivity is typically ≤ 3%.	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	[4] See PCB Declaration of Conformance PS023 for details.	
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				
Weight	0.26 oz	7.5 gm [1]		
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		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Side	Side		
Mounting	Adhesive	Adhesive		
Typical Sensitivity Deviation vs Temperature				
CE [4]				
<i>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.</i>				
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SUPPLIED ACCESSORIES: Model 080A109 Petro Wax (1) Model 080A90 Quick Bonding Gel (1) Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)				
Entered: AP	Engineer: JDK	Sales: WDC	Approved: BAM	Spec Number:
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