Model Number	ICP® ACCELEROMETER	Revision: F
333B		ECN #: 18976

Performance	ENGLISH	SI	
Sensitivity (± 20 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	± 50 g pk	± 490 m/s² pk	
Frequency Range (± 5 %)	2 to 1000 Hz	2 to 1000 Hz	
Resonant Frequency	≥ 5 kHz	≥ 5 kHz	
Phase Response (± 5 °)	2 to 1000 Hz	2 to 1000 Hz	
Broadband Resolution (1 to 10,000 Hz)	0.00007 g rms	0.0007 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit (Shock)	± 3500 g pk	± 34,300 m/s² pk	
Temperature Range	0 to 150 °F	-18 to +66 °C	
Temperature Response	0.15 %/°F	0.27 %/°C	[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	≤ 100 ohms	≤ 100 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.7 to 1.3 sec	0.7 to 1.3 sec	
Spectral Noise (10 Hz)	4.3 µg/√Hz	42.1 (µm/s²)/√Hz	[1]
Spectral Noise (100 Hz)	1.3 µg/√Hz	12.8 (µm/s²)/√Hz	[1]
Spectral Noise (1 kHz)	0.6 µg/√Hz	5.9 (µm/s²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Polymer	Polymer	
Sealing	Hermetic	Hermetic	
Size (Diameter)	0.48 in	12.2 mm	
Weight	0.2 oz	5.6 gm	[1]
Electrical Connector	3-Pin Socket	3-Pin Socket	

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

Output Bias Voltage	8.5 to 13 VDC	8.5 to 13 VDC

NOTES:

[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] Transverse sensitivity is typically <= 3%.

SUPPLIED ACCESSORIES:

Model ACS-2 NIST Traceable single point (100 Hz) sensitivity. (1)

ICP® Accelerometer

Entered: ARC	Engineer: ARC	Sales: WPC	Approved: GM	Spec Number:
Date: 12-29-3	Date: 12-29-3	Date: 12/29/3	Date: 12/30/3	5926

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