

Model Number

352B30

ICP® ACCELEROMETER

Revision: D

ECN #: 31460

Performance

	ENGLISH	SI	
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)	15 to 4500 Hz	15 to 4500 Hz	
Electrical Filter Corner Frequency	10 kHz	10 kHz	[1]
Electrical Filter Roll-off	12 dB/octave	12 dB/octave	[1]
Resonant Frequency	≥ 65 kHz	≥ 65 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.004 g rms	0.04 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

Environmental

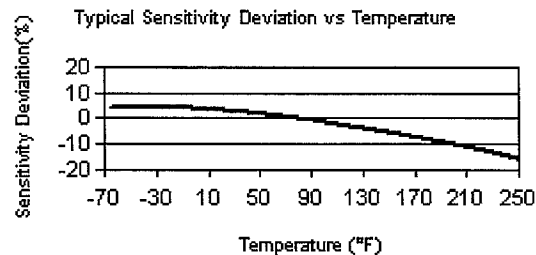
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.005 g/με	≤ 0.05 (m/s ²)/με	[1]

Electrical

Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	8 to 13 VDC	8 to 13 VDC	
Discharge Time Constant	<0.1 sec	<0.1 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	1500 μg/√Hz	14,715 (μm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	500 μg/√Hz	4905 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	150 μg/√Hz	1472 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	50 μg/√Hz	490 (μm/sec ²)/√Hz	[1]

Physical

Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	3/8 in x 0.87 in	3/8 in x 22 mm	
Weight	0.25 oz	7 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Male	10-32 Male	



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.

M - Metric Mount

Mounting Thread M6 x 0.75 Male M6 x 0.75 Male
Supplied Accessory : Model M080A Metric adhesive mounting base, 0.5" hex x 0.187" thick, M6 x 0.75 tapped thru-hole (1) replaces Model 080A

NOTES:

- [1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A Adhesive Mounting Base (1)
Model 080A109 Petro Wax (1)
Model ACS-xx NIST Traceable Calibration Certificate. (1)

Entered: BLS	Engineer: JJB	Sales: YDC	Approved: EB	Spec Number:
Date: 10-1-09	Date: 10-1-09	Date: 10-1-09	Date: 10-1-09	16319

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