

Model Number
393B32

SEISMIC ICP® ACCELEROMETER

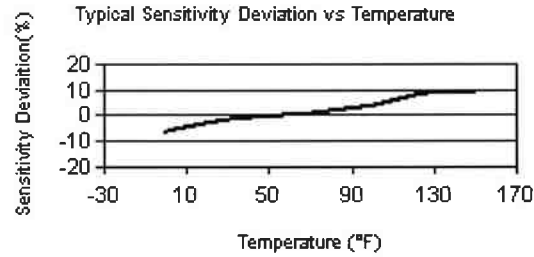
Revision: B
ECN #: 29724

	ENGLISH	SI	
Performance			
Sensitivity(± 5 %)	5.0 V/g	0.51 V/(m/s ²)	[2]
Measurement Range	1 g pk	9.8 m/s ² pk	
Frequency Range(± 5 %)	0.2 to 200 Hz	0.2 to 200 Hz	
Frequency Range(± 10 %)	0.1 to 300 Hz	0.1 to 300 Hz	
Resonant Frequency	≥ 700 Hz	≥ 700 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.000002 g rms	0.000018 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 40 g pk	± 392 m/s ² pk	
Temperature Range	0 to +150 °F	-18 to +65 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	≤ 0.0005 g/με	≤ 0.005 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	24 to 28 VDC	24 to 28 VDC	
Constant Current Excitation	2 to 10 mA	2 to 10 mA	
Output Impedance	≤ 500 ohm	≤ 500 ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	≥ 2 sec	≥ 2 sec	
Settling Time(within 10% of bias)	≤ 10 sec	≤ 10 sec	
Spectral Noise(1 Hz)	0.12 μg/√Hz	1.2 (μm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	0.02 μg/√Hz	0.2 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	0.008 μg/√Hz	0.08 (μm/sec ²)/√Hz	[1]
Electrical Isolation(Case)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Flexural	Flexural	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Diameter x Height)	2.25 in x 2.8 in	57.2 mm x 71.1 mm	
Weight	22.4 oz	635 gm	[1]
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	
Mounting Thread	1/4-28 Female	1/4-28 Female	
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m	

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.

NOTES:
[1] Typical.
[2] Measured at 10 Hz, 0.1 grms
[3] Zero-based, least-squares, straight line method.
[4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (1)
Model ACS-11 NIST traceable amplitude and phase response from 0.5 Hz to upper 5% frequency (1)
Model M081B20 Mounting Stud 1/4-28 to M6 X 0.75



Entered: BLS	Engineer: BM	Sales: RJL	Approved: JLB	Spec Number:
Date: 11/24/08	Date: 11/20/08	Date: 11/20/08	Date: 11/20/08	32123

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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