Model Number **3711B1230G**	**DC RESPONSE ACCELEROMETER**	Revision B ECN #: 34344

Performance	**ENGLISH**	**SI**	
Sensitivity (±5 %)	66.7 mV/g	6.80 mV/(m/s²)	
Measurement Range	±30 g pk	±294.2 m/s² pk	
Frequency Range (±5 %)	0 to 1.0 kHz	0 to 1.0 kHz	
Frequency Range (±10 %)	0 to 1.5 kHz	0 to 1.5 kHz	
Resonant Frequency	≥4 kHz	≥4 kHz	
Phase Response (100 Hz)	<10 °	<10 °	
Broadband Resolution (0.5 to 100 Hz)	3.5 mg rms	.034 m/s² rms	[2]
Non-Linearity	≤1 %	≤1 %	[5]
Transverse Sensitivity	≤3 %	≤3 %	
Environmental			
Overload Limit (Shock)	±3000 g pk	±29420 m/s² pk	
Temperature Range (Operating)	-65 to +250 °F	-54.0 to +121 °C	
Temperature Range (Storage)	-65 to +250 °F	-54.0 to +121 °C	
Temperature Coefficient of Sensitivity	±3 %	±3 %	[3]
Zero g Offset Temperature Coefficient	±2 %FSO	±2 %FSO	[4][3]
Base Strain Sensitivity	.0002 g/με	.002 (m/s²)/με	[2]
Magnetic Sensitivity	27.9 μg/gauss	2.8 (m/s²)/Tesla	[2]
Electrical			
Excitation Voltage	6 to 30 VDC	6 to 30 VDC	
Current Consumption	≤5 mA	≤5 mA	
Output Impedance	≤100 ohm	≤100 ohm	
Offset Voltage (0 g)	-40 to +40 mVDC	-40 to +40 mVDC	[1]
Spectral Noise (1 to 100 Hz)	330 μg/√Hz	3237 (μm/sec^2/√Hz	[2]
Electrical Isolation (Case)	>10^8 ohm	>10^8 ohm	
Physical			
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.45 in x 0.85 in x 0.85 in	11.4 mm x 21.6 mm x 21.6 mm	
Weight (with cable)	2.74 oz	77.8 gm	
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Termination	Pigtail Ends	Pigtail Ends	
Cable Type	010 4-cond Shielded	010 4-cond Shielded	
Cable Length	10 ft	3.05 m	
Mounting	Through Hole	Through Hole	

CE[6]

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.

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Notes

[1] Offset tolerance is based on 10 ft of 010 test cable.
[2] Typical.
[3] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
[4] FSO = Full Scale Output over the Measurement Range (4VDC).
[5] Zero-based, least-squares, straight line method.
[6] See PCB Declaration of Conformance PS027 for details.

Supplied Accessories

080A152 Easy Mount Clip (1)
081A113 Mounting screw assembly (2)
ACS-103 Phase and Amplitude Calibration from 2 Hz to +5% of frequency range (1)
M081A113 Mounting screw assembly (2)

Entered: LLH	Engineer: MAM	Sales: JC	Approved: EB	Spec Number:
Date: 11/02/2010	Date: 11/02/2010	Date: 11/02/2010	Date: 11/02/2010	**45108**

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