

Model Number <b>3711B1230G</b>	<b>DC RESPONSE ACCELEROMETER</b>	Revision: C ECN #: 39611
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 5 %)	66.7 mV/g	6.80 mV/(m/s <sup>2</sup> )	
Measurement Range	± 30 g pk	± 294.2 m/s <sup>2</sup> 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/s <sup>2</sup> rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[5]
Transverse Sensitivity	≤ 3 %	≤ 3 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 3000 g pk	± 29,420 m/s <sup>2</sup> 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	[3][4]
Base Strain Sensitivity	.0002 g/με	.002 (m/s <sup>2</sup> )/με	[2]
Magnetic Sensitivity	27.9 μg/gauss	2.8 (m/s <sup>2</sup> )/Tesla	[2]
<b>Electrical</b>			
Excitation Voltage	6 to 30 VDC	6 to 30 VDC	
Current Consumption	≤ 6 mA	≤ 6 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 <sup>2</sup> )/√Hz	[2]
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	
<b>Physical</b>			
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	

**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] 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:**

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

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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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