

Model Number 3711B1130G	DC RESPONSE ACCELEROMETER		Revision C ECN #: 39611	
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)	
Sensitivity (±5 %)	66.7 mV/g	6.80 mV/(m/s ²)	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.	
Measurement Range	±30 g pk	±294.2 m/s ² 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 ² rms		[2]
Non-Linearity	≤1 %	≤1 %		[5]
Transverse Sensitivity	≤3 %	≤3 %		
Environmental				
Overload Limit (Shock)	±3000 g pk	±29420 m/s ² 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/s ²)/με	[2]	
Magnetic Sensitivity	27.9 μg/gauss	2.8 (m/s ²)/Tesla	[2]	
Electrical				
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 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	0.58 oz	16.3 gm		
Electrical Connector	4-Pin	4-Pin		
Electrical Connection Position	Side	Side		
Mounting	Through Hole	Through Hole		
 [6]				
<p>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.</p>				
Entered: AP Date: 07/31/2012	Engineer: RPF Date: 07/31/2012	Sales: RWM Date: 07/31/2012	Approved: BAM Date: 07/31/2012 Spec Number: 45103	
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