

Model Number 3711B112G	DC RESPONSE ACCELEROMETER			Revision B ECN #: 33944	
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 %)	1000 mV/g	101.9 mV/(m/s²)	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	±2 g pk	±19.6 m/s² pk			
Frequency Range (±5 %)	0 to 250 Hz	0 to 250 Hz			
Frequency Range (±10 %)	0 to 350 Hz	0 to 350 Hz			
Resonant Frequency	≥1.3 kHz	≥1.3 kHz			
Phase Response (10 Hz)	<2.5 °	<2.5 °			
Broadband Resolution (0.5 to 100 Hz)	0.25 mg rms	0.0025 m/s² rms			[2]
Non-Linearity	≤1 %	≤1 %			[5]
Transverse Sensitivity	≤3 %	≤3 %			
Environmental			Supplied Accessories 080A152 Easy Mount Clip (1) 081A113 Mounting screw assembly (2) ACS-85 (1) M081A113 Mounting screw assembly (2)		
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	.0001 g/με	.001 (m/s²)/με	[2]		
Magnetic Sensitivity	43.7 μg/gauss	4.29 (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)	22.9 μg/√Hz	225 (μm/sec²)/√Hz	[2]		
Electrical Isolation (Case)	>10⁸ ohm	>10⁸ 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] 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.					
Entered: LLH Engineer: MAM Date: 09/07/2010 Sales: WDC Date: 09/02/2010 Approved: RPF Date: 09/07/2010 Spec Number: 45101  3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 888-684-0013 Fax: 716-685-3886 E-mail: vibration@pcb.com Web site: www.pcb.com					