



Model Number 3711B122G	DC RESPONSE ACCELEROMETER		Revision A 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/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	±2 g pk	±19.6 m/s ² 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/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	.0001 g/με	.001 (m/s ²)/με	[2]										
Magnetic Sensitivity	43.7 μg/gauss	4.29 (m/s ²)/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/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)	2.29 oz	65.0 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											
 [6]			<table border="1"> <tr> <td>Entered: LLH</td> <td>Engineer: MAM</td> <td>Sales: WDC</td> <td>Approved: RPF</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 09/07/2010</td> <td>Date: 09/02/2010</td> <td>Date: 09/02/2010</td> <td>Date: 09/08/2010</td> <td>45106</td> </tr> </table>	Entered: LLH	Engineer: MAM	Sales: WDC	Approved: RPF	Spec Number:	Date: 09/07/2010	Date: 09/02/2010	Date: 09/02/2010	Date: 09/08/2010	45106
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<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>			 <p>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</p>										