



Model Number	DC RESPONSE ACCELEROMETER			Revision: B ECN #: 39611
<b>3741B1210G</b>				
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Sensitivity(± 5 %)	200 mV/g	20.4 mV/(m/s <sup>2</sup> )	[6]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 10 g pk	± 98.1 m/s <sup>2</sup> pk		
Frequency Range(± 5 %)	0 to 1000 Hz	0 to 1000 Hz		
Frequency Range(± 10 %)	0 to 1500 Hz	0 to 1500 Hz		
Resonant Frequency	>2 kHz	>2 kHz		
Phase Response(100 Hz)	<10 °	<10 °		
Broadband Resolution(0.5 to 100 Hz)	1.2 mg rms	0.012 m/s <sup>2</sup> rms	[2]	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[7]	
Transverse Sensitivity	≤ 3 %	≤ 3 %		
<b>Environmental</b>				
Overload Limit(Shock)	± 3000 g pk	± 29,420 m/s <sup>2</sup> pk		[1] Offset tolerance is based on manufacturers supplied cable length.
Temperature Range(Operating)	-65 to 250 °F	-54.0 to 121 °C		[2] Typical.
Temperature Range(Storage)	-65 to 250 °F	-54.0 to 121 °C		[3] Case and shield to mounting surface or cable leads.
Temperature Coefficient of Sensitivity	± 3.0 %	± 3.0 %	[4]	[4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
Zero g Offset Temperature Coefficient	± 2.0 %FSO	± 2.0 %FSO	[5][4]	[5] FSO = Full Scale Output over the Measurement Range (4VDC).
Base Strain Sensitivity	.0001 g/με	.001 (m/s <sup>2</sup> )/με	[2]	[6] Measured at 100 Hz, 1 grms.
<b>Electrical</b>				[7] Zero-based, least-squares, straight line method.
Excitation Voltage	6 to 30 VDC	6 to 30 VDC		[8] See PCB Declaration of Conformance PS027 for details.
Current Consumption	≤ 6 mA	≤ 6 mA		
Output Impedance	≤ 100 Ohm	≤ 100 Ohm		
Offset Voltage(0 g)	± 40 mVDC	± 40 mVDC	[1]	
Common Mode Voltage(± 0.1 VDC)	+2.5 VDC	+2.5 VDC		
Spectral Noise(1 to 100 Hz)	107.9 μg/√Hz	1058 (μm/sec <sup>2</sup> )/√Hz	[2]	
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	[3]	
<b>Physical</b>				<b>SUPPLIED ACCESSORIES:</b>
Housing Material	Anodized Aluminum	Anodized Aluminum		Model 081A103 Mounting screw (2)
Sealing	Epoxy	Epoxy		Model ACS-85 Phase and Magnitude calibration from 0.5 Hz to 5% pt Linear scale for 3711
Size (Height x Length x Width)	0.30 in x 1.00 in x .85 in	7.62 mm x 25.4 mm x 21.6 mm		3713 DC Accels only (1)
Weight(without cable)	0.35 oz	9.92 gm	[2]	Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)
Electrical Connector	Integral Cable	Integral Cable		
Electrical Connection Position	Side	Side		<b>OPTIONAL ACCESSORIES:</b>
Cable Termination	Pigtail Ends	Pigtail Ends		Model 080A208 Triaxial mounting block
Cable Type	010 4-cond Shielded	010 4-cond Shielded		
Cable Length	10 ft	3 m		
Mounting	Through Holes (2)	Through Holes (2)		
				Entered: AP    Engineer: RPF    Sales: RWM    Approved: BAM    Spec Number:
				Date: 7/31/2012    Date: 7/31/2012    Date: 7/31/2012    Date: 7/31/2012 <b>46232</b>
				
[8]				Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com
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.				
3425 Walden Avenue, Depew, NY 14043				