

Model Number 3711B112G	DC RESPONSE ACCELEROMETER				Revision: C ECN #: 39611
Performance	ENGLISH	SI			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.
Sensitivity(± 5 %)	1000 mV/g	101.9 mV/(m/s ²)			
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					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.
Overload Limit(Shock)	± 3000 g pk	± 29,420 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		[3][4]	
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	≤ 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)	22.9 μg/√Hz	225 (μm/sec ²)/√Hz		[2]	
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm			
Physical					SUPPLIED ACCESSORIES: Model 080A152 Easy Mount Clip (1) Model 081A113 Mounting screw assembly (2) Model ACS-85 Phase and Magnitude calibration from 0.5 Hz to 5% pt Linear scale for 3711 3713 DC Accels only (1) Model M081A113 Mounting screw assembly (2)
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.					
				Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com	
3425 Walden Avenue, Depew, NY 14043					
Entered: AP	Engineer: RPF	Sales: RWM	Approved: BAM	Spec Number:	
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