



Model Number 3711B122G		<b>DC RESPONSE ACCELEROMETER</b>		Revision: B ECN #: 39611
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Sensitivity(± 5 %)	1000 mV/g	101.9 mV/(m/s <sup>2</sup> )		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	± 2 g pk	± 19.6 m/s <sup>2</sup> 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 <sup>2</sup> rms	[2]	
Non-Linearity	≤ 1 %	≤ 1 %	[5]	
Transverse Sensitivity	≤ 3 %	≤ 3 %		
<b>Environmental</b>				
Overload Limit(Shock)	± 3000 g pk	± 29,420 m/s <sup>2</sup> pk		<b>NOTES:</b> [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.
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 <sup>2</sup> )/με	[2]	
Magnetic Sensitivity	43.7 μg/gauss	4.29 (m/s <sup>2</sup> )/Tesla	[2]	
<b>Electrical</b>				
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 <sup>2</sup> )/√Hz	[2]	
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm		
<b>Physical</b>				<b>SUPPLIED ACCESSORIES:</b> 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(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]				
<i>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.</i>				
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