

Model Number 3711F1110G	DC RESPONSE ACCELEROMETER				Revision: NR ECN #: 49223
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 3 %)	135 mV/g	13.8 mV/(m/s²)	[5]	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/s² 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	3.2 kHz	3.2 kHz	[2]		
Phase Response(100 Hz)	<10 °	<10 °			
Broadband Resolution(0.5 to 100 Hz)	0.35 mg rms	0.0034 m/s² rms	[2]		
Non-Linearity	≤ 1 %	≤ 1 %	[6]		
Transverse Sensitivity	≤ 3 %	≤ 3 %			
Environmental				NOTES:	
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s² pk		[1] Offset tolerance is based on 10 ft of 010 test cable.	
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] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)	
Temperature Coefficient of Sensitivity	± 2.5 %	± 2.5 %	[3]	[4] FSO= Full Scale Output over the Measurement Range	
Zero g Offset Temperature Coefficient	± 1.5 % FSO	± 1.5 % FSO	[3][4]	[5] Measured at 100 Hz, 1 grms.	
Base Strain Sensitivity	0.001 g/με	0.01 (m/s²)/με	[2]	[6] Zero-based, least-squares, straight line method.	
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s²)/Tesla	[2]	[7] See PCB Declaration of Conformance PS027 for details.	
Electrical					
Excitation Voltage	5 to 32 VDC	5 to 32 VDC			
Current Consumption	≤ 5 mA	≤ 5 mA			
Output Impedance	≤ 120 Ohm	≤ 120 Ohm			
Offset Voltage(0 g)	± 20 mVDC	± 20 mVDC	[1]		
Spectral Noise	50 μg/√Hz	491 (μm/sec²)/√Hz	[2]		
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm			
Physical				SUPPLIED ACCESSORIES:	
Housing Material	Titanium	Titanium		Model 080A152 Easy Mount Clip (1)	
Sealing	Hermetic	Hermetic		Model 081A113 Mounting screw assembly (2)	
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		Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range	
Weight	0.58 oz	16.3 gm		Model M081A113 Mounting screw assembly (2)	
Electrical Connector	4-Pin	4-Pin			
Electrical Connection Position	Side	Side			
Mounting	Through Hole	Through Hole			
[7] </					