

Model Number 3711F12200G	DC RESPONSE ACCELEROMETER				Revision: NR ECN #: 49386
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Sensitivity(± 3 %)	6.75 mV/g	0.69 mV/(m/s ²)	[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	± 200 g pk	± 1960 m/s ² pk			
Frequency Range(± 5 %)	0 to 1500 Hz	0 to 1500 Hz			
Frequency Range(± 10 %)	0 to 2500 Hz	0 to 2500 Hz			
Resonant Frequency	11.8 kHz	11.8 kHz	[2]		
Phase Response(100 Hz)	<10 °	<10 °			
Broadband Resolution(0.5 to 100 Hz)	6 mg rms	0.6 m/s ² rms	[2]		
Non-Linearity	≤ 1 %	≤ 1 %	[6]		
Transverse Sensitivity	≤ 3 %	≤ 3 %			
Environmental					NOTES:
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² 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, 10 grms.
Base Strain Sensitivity	0.001 g/με	0.01 (m/s ²)/με	[2]		[6] Zero-based, least-squares, straight line method.
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s ²)/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	800 μg/√Hz	7848 (μm/sec ²)/√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(with cable)	2.29 oz	65.0 gm			Model M081A113 Mounting screw assembly (2)
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			
 [7]	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. This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit http://www.pcb.com				
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