

Model Number 3711F1250G	DC RESPONSE ACCELEROMETER				Revision: NR ECN #: 49386
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Sensitivity(± 3 %)	27 mV/g	2.8 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	± 50 g pk	± 490 m/s ² pk			
Frequency Range(± 5 %)	0 to 1500 Hz	0 to 1500 Hz			
Frequency Range(± 10 %)	0 to 2000 Hz	0 to 2000 Hz			
Resonant Frequency	6.5 kHz	6.5 kHz	[2]		
Phase Response(100 Hz)	≤ 10 °	≤ 10 °			
Broadband Resolution(0.5 to 100 Hz)	1.5 mg rms	0.015 m/s ² rms	[2]		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 [5] Measured at 100 Hz, 10 grms. [6] Zero-based, least-squares, straight line method. [7] See PCB Declaration of Conformance PS027 for details.
Non-Linearity	≤ 1 %	≤ 1 %	[6]		
Transverse Sensitivity	≤ 3 %	≤ 3 %			
Environmental					
Overload Limit(Shock)	± 5000 g pk	± 49,050 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			SUPPLIED ACCESSORIES: Model 080A152 Easy Mount Clip (1) Model 081A113 Mounting screw assembly (2) Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range Model M081A113 Mounting screw assembly (2)
Temperature Coefficient of Sensitivity	± 2.5 %	± 2.5 %	[3]		
Zero g Offset Temperature Coefficient	± 1.5 % FSO	± 1.5 % FSO	[3][4]		
Base Strain Sensitivity	0.001 g/με	0.01 (m/s ²)/με	[2]		
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s ²)/Tesla	[2]		
Electrical					
Excitation Voltage	5 to 32 VDC	5 to 32 VDC			Entered: LK Engineer: NJF Sales: WDC Approved: BAM Spec Number:
Current Consumption	≤ 5 mA	≤ 5 mA			
Output Impedance	≤ 120 Ohm	≤ 120 Ohm			
Offset Voltage(0 g)	+/-20 mVDC	+/-20 mVDC	[1]		
Spectral Noise	250 μg/√Hz	2453 (μm/sec ²)/√Hz	[2]		
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm			
Physical					Date: 4/22/2019 Date: 4/22/2019 Date: 4/22/2019 Date: 4/22/2019 70748
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			PCB PIEZOTRONICS 3425 Walden Avenue, Depew, NY 14043
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			



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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