

Model Number 3741F1210G	DC RESPONSE ACCELEROMETER				Revision: A ECN #: 49164
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Sensitivity(± 3 %)	270 mV/g	27.5 mV/(m/s²)	[6]		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 % FS	≤ 1 % FS	[7]		
Transverse Sensitivity	≤ 3 %	≤ 3 %			
Environmental					
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s² pk			NOTES:
Temperature Range(Operating)	-65 to 250 °F	-54.0 to 121 °C			[1] Offset tolerance is based on manufacturers supplied cable length.
Temperature Range(Storage)	-65 to 250 °F	-54.0 to 121 °C			[2] Typical.
Temperature Coefficient of Sensitivity	± 2.5 %	± 2.5 %	[4]		[3] Case and shield to mounting surface or cable leads.
Zero g Offset Temperature Coefficient	± 1.5 % FSO	± 1.5 % FSO	[5][4]		[4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
Base Strain Sensitivity	.002 g/με	.02 (m/s²)/με	[2]		[5] FSO= Full Scale Output over the Measurement Range
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s²)/Tesla	[2]		[6] Measured at 100 Hz, 1 grms.
Electrical					[7] Zero-based, least-squares, straight line method.
Excitation Voltage	5 to 32 VDC	5 to 32 VDC			[8] See PCB Declaration of Conformance PS027 for details.
Current Consumption	≤ 5 mA	≤ 5 mA			
Output Impedance	≤ 120 Ohm	≤ 120 Ohm			
Offset Voltage(0 g)	± 20 mVDC	± 20 mVDC	[1]		
Common Mode Voltage(± 0.1 VDC)	+1.65 VDC	+1.65 VDC			
Spectral Noise(1 to 100 Hz)	50 μg/√Hz	491 (μm/sec²)/√Hz	[2]		
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	[3]		
Physical					
Housing Material	Anodized Aluminum	Anodized Aluminum			
Sealing	Epoxy	Epoxy			
Size (Height x Length x Width)	0.30 in x 1.00 in x .85 in	7.62 mm x 25.4 mm x 21.6 mm			SUPPLIED ACCESSORIES:
Weight(without cable)	0.35 oz	9.92 gm	[2]		Model 081A103 Mounting screw (2)
Electrical Connector	Integral Cable	Integral Cable			Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range (1)
Electrical Connection Position	Side	Side			Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)
Cable Termination	Pigtail Ends	Pigtail Ends			
Cable Type	010 4-cond Shielded	010 4-cond Shielded			OPTIONAL ACCESSORIES:
Cable Length	10 ft	3 m			Model 080A208 Triaxial mounting block
Mounting	Through Holes (2)	Through Holes (2)			
 [8]					
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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