

Model Number 3741F122G	DC RESPONSE ACCELEROMETER				Revision: A ECN #: 49164	
Performance			ENGLISH	SI	OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Sensitivity(± 3 %)	1350 mV/g	137.6 mV/(m/s²)	[6]			
Measurement Range	± 2 g pk	± 19.6 m/s² 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	1.2 kHz	1.2 kHz	[2]			
Phase Response(10 Hz)	<2.5 °	<2.5 °				
Broadband Resolution(0.5 to 100 Hz)	0.1 mg rms	.001 m/s² rms	[2]			
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[7]			
Transverse Sensitivity	≤ 3 %	≤ 3 %				
Environmental					NOTES: [1] Offset tolerance is based on manufacturers supplied cable length. [2] Typical. [3] Case and shield to mounting surface or cable leads. [4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C) [5] FSO= Full Scale Output over the Measurement Range [6] Measured at 5 Hz, 0.5 grms. [7] Zero-based, least-squares, straight line method. [8] See PCB Declaration of Conformance PS027 for details.	
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s² 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				
Temperature Coefficient of Sensitivity	± 2.5 %	± 2.5 %	[4]			
Zero g Offset Temperature Coefficient	± 1.5 % FSO	± 1.5 % FSO	[5][4]			
Base Strain Sensitivity	.002 g/με	.02 (m/s²)/με	[2]			
Magnetic Sensitivity	200 μg/gauss	19.6 (m/s²)/Tesla	[2]			
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]			
Common Mode Voltage(± 0.1 VDC)	+1.65 VDC	+1.65 VDC				
Spectral Noise(1 to 100 Hz)	10 μg/√Hz	98.1 (μm/sec²)/√Hz	[2]			
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	[3]			
Physical					SUPPLIED ACCESSORIES: Model 081A103 Mounting screw (2) Model ACS-85 Phase and Magnitude calibration from 0.5 Hz to 5% pt Linear scale (1) Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2) OPTIONAL ACCESSORIES: Model 080A208 Triaxial mounting block	
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				
Weight(without cable)	0.35 oz	9.92 gm	[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 m				
Mounting	Through Holes (2)	Through Holes (2)				
CE [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 PCB PIEZOTRONICS 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com						
Entered: LK		Engineer: NJF		Sales: WDC	Approved: NJF	Spec Number:
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