

Model Number 3741F12200G		DC RESPONSE ACCELEROMETER			Revision: A ECN #: 49164	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 3 %)		13.5 mV/g	1.38 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		± 200 g pk	± 1961.3 m/s² 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	0.059 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	050 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	0.02 (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, 10 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)		800 μg/√Hz	7848 (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			
Weight(without cable)		0.35 oz	9.92 gm	[2]	SUPPLIED ACCESSORIES:	
Electrical Connector		Integral Cable	Integral Cable		Model 081A103 Mounting screw (2)	
Electrical Connection Position		Side	Side		Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range (1)	
Cable Termination		Pigtail Ends	Pigtail Ends		Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)	
Cable Type		010 4-cond Shielded	010 4-cond Shielded			
Cable Length		10 ft	10 ft		OPTIONAL ACCESSORIES:	
Mounting		Through Holes (2)	Through Holes (2)		Model 080A208 Triaxial mounting block	
 [8]				Entered: LK Engineer: NJF Sales: WDC Approved: NJF Spec Number:		
				Date: 2/15/2019 Date: 2/15/2019 Date: 2/15/2019 Date: 2/15/2019 69815		
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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