

Model Number <b>3741E122G</b>	<b>DC RESPONSE ACCELEROMETER</b>	Revision: C ECN #: 46196
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 3 %)	2000 mV/g	203.9 mV/(m/s <sup>2</sup> )	[6]
Measurement Range	± 2 g pk	± 19.6 m/s <sup>2</sup> pk	
Frequency Range(± 3 dB)	0 to 200 Hz	0 to 200 Hz	[7]
Frequency Range(± 3 dB)	0 to 400 Hz	0 to 400 Hz	[2]
Phase Response(10 Hz)	<3.0 °	<3.0 °	
Broadband Resolution(0.5 to 100 Hz)	.1 mg rms	.001 m/s <sup>2</sup> rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[8]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 2000 g pk	± 19,620 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to 250 °F	-54 to 121 °C	
Temperature Range(Storage)	-65 to 250 °F	-54.0 to 121 °C	
Temperature Coefficient of Sensitivity	± 5 %	± 5 %	[4]
Zero g Offset Temperature Coefficient	± 4 % FSO	± 4 % FSO	[5][4]
Base Strain Sensitivity(Measured at 250 µε)	.0005 g	.0049 m/s <sup>2</sup>	[2]
<b>Electrical</b>			
Excitation Voltage	6 to 30 VDC	6 to 30 VDC	
Current Consumption	≤ 10 mA	≤ 10 mA	
Output Impedance	≤ 120 Ohm	≤ 120 Ohm	
Offset Voltage(0 g)	± 320 mVDC	± 320 mVDC	[1]
Common Mode Voltage(± 0.1 VDC)	+2.5 VDC	+2.5 VDC	
Spectral Noise(1 to 100 Hz)	20 µg/√Hz	196 (µm/sec <sup>2</sup> )/√Hz	[2]
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	[3]
<b>Physical</b>			
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	7.5 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	10 ft	
Mounting	Through Holes (2)	Through Holes (2)	

**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.

**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 (8VDC).  
 [6] Measured at 10 Hz, 1.0 pk  
 [7] Minimum, verified with Calibration data.  
 [8] Least-squares, straight line method, % FSO.  
 [9] See PCB Declaration of Conformance PS025 for details.

**SUPPLIED ACCESSORIES:**  
 Model 081A103 Mounting screw (2)  
 Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)  
 Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)

**OPTIONAL ACCESSORIES:**  
 Model 080A208 Triaxial mounting block

Entered: LK	Engineer: JJD	Sales: WDC	Approved: NJF	Spec Number:
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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.



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