

Model Number 3711E1110G	DC RESPONSE ACCELEROMETER	Revision: B ECN #: 46334
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 5 %)	200 mV/g	20.4 mV/(m/s ²)	
Measurement Range	± 10 g	± 98.1 m/s ² pk	
Frequency Range(± 3 dB)	0 to 1000 Hz	0 to 1000 Hz	[2]
Frequency Range(± 3 dB)	0 to 500 Hz	0 to 500 Hz	[5]
Phase Response(100 Hz)	<15 °	<15 °	
Broadband Resolution(0.5 to 100 Hz)	.2 mg rms	.002 m/s ² rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[6]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
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	
Temperature Coefficient of Sensitivity	± 3 %	± 3 %	[3]
Zero g Offset Temperature Coefficient	± 2 % FSO	± 2 % FSO	[3][4]
Base Strain Sensitivity(Measured at 250 µε)	.0004 g/µε	.004 (m/s ²)/µε	[2]
Magnetic Sensitivity	100 µg/gauss	9.8 (m/s ²)/Tesla	[2]
Electrical			
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)	± 80 mVDC	± 80 mVDC	[1]
Spectral Noise(1 to 100 Hz)	45 µg/√Hz	441 (µm/sec ²)/√Hz	[2]
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
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	0.58 oz	16.3 gm	
Electrical Connector	4-Pin	4-Pin	
Electrical Connection Position	Side	Side	
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 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 (4VDC).
 [5] Minimum, verified with Calibration data.
 [6] Least-squares, straight line method, % FSO.
 [7] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

Model 080A152 Easy Mount Clip (1)
 Model 081A113 Mounting screw assembly (2)
 Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)
 Model M081A113 Mounting screw assembly (2)

Entered: LK	Engineer: JJD	Sales: WDC	Approved: NJF	Spec Number:
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All specifications are at room temperature unless otherwise specified.
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