

Model Number 3711E1150G	DC RESPONSE ACCELEROMETER				Revision: A ECN #: 44033
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Sensitivity(± 5 %)	40 mV/g	4.1 mV/(m/s ²)			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	± 50 g pk	± 490.5 m/s ² pk			
Frequency Range(± 3 dB)	0 to 2000 Hz	0 to 2000 Hz	[2]		
Frequency Range(± 3 dB)	0 to 1000 Hz	0 to 1000 Hz	[5]		
Phase Response(100 Hz)	<10 °	<10 °			
Broadband Resolution(0.5 to 100 Hz)	1.0 mg rms	0.010 m/s ² rms	[2]		
Non-Linearity	≤ 1 %	≤ 1 %	[6]		
Transverse Sensitivity	≤ 5 %	≤ 5 %			
Environmental					NOTES:
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk			[1]Offset tolerance is based on 10 ft of 010 test cable.
Temperature Range(Operating)	-65 to +250 °F	-54.0 to +121 °C			[2]Typical.
Temperature Range(Storage)	-65 to +250 °F	-54.0 to +121 °C			[3]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
Temperature Coefficient of Sensitivity	± 3 %	± 3 %	[3]		[4]FSO = Full Scale Output over the Measurement Range (4VDC).
Zero g Offset Temperature Coefficient	± 2 % FSO	± 2 % FSO	[3][4]		[5]Minimum, verified with Calibration data.
Base Strain Sensitivity(Measured at 250 µε)	.001 g/µε	.01 (m/s ²)/µε	[2]		[6]Least-squares, straight line method, % FSO.
Magnetic Sensitivity	40 µg/gauss	3.9 (m/s ²)/Tesla	[2]		[7]See PCB Declaration of Conformance PS027 for details.
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)	200 µg/√Hz	1962 (µm/sec ²)/√Hz	[2]		
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm			
Physical					SUPPLIED ACCESSORIES:
Housing Material	Titanium	Titanium			Model 080A152 Easy Mount Clip (1)
Sealing	Hermetic	Hermetic			Model 081A113 Mounting screw assembly (2)
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			Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)
Weight	0.58 oz	16.3 gm			Model M081A113 Mounting screw assembly (2)
Electrical Connector	4-Pin	4-Pin			
Electrical Connection Position	Side	Side			
Mounting	Through Holes (2)	Through Holes (2)			
 [7] 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. ICP® is a registered trademark of PCB Group, Inc.					
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