



Model Number 3711E1110G	DC RESPONSE ACCELEROMETER			Revision: B ECN #: 46334
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 5 %)	200 mV/g	20.4 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	± 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				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)	.0004 g/µε	.004 (m/s ²)/µε	[2]	[6] Least-squares, straight line method, % FSO.
Magnetic Sensitivity	100 µg/gauss	9.8 (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)	45 µg/√Hz	441 (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)		
				
<p>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.</p>				
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