

Model Number 3711E1125G		DC RESPONSE ACCELEROMETER				Revision: B ECN #: 45802	
Performance		ENGLISH		SI		OPTIONAL VERSIONS	
Sensitivity(± 5 %)		80 mV/g		8.15 mV/(m/s²)		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		± 25 g pk		± 245.2 m/s² pk			
Frequency Range(± 3 dB)		0 to 1500 Hz		0 to 1500 Hz [2]			
Frequency Range(± 3 dB)		0 to 750 Hz		0 to 750 Hz [5]			
Phase Response(100 Hz)		<10 °		<10 °			
Broadband Resolution(0.5 to 100 Hz)		.5 mg rms		.0049 m/s² rms [2]			
Non-Linearity		≤ 1 %		≤ 1 % [6]			
Transverse Sensitivity		≤ 5 %		≤ 5 %			
Environmental							
Overload Limit(Shock)		± 5000 g pk		± 49,050 m/s² pk		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.	
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)		.001 g/µε		.01 (m/s²)/µε [2]			
Magnetic Sensitivity		100 µg/gauss		9.8 (m/s²)/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 to +80 mVDC		-80 to +80 mVDC [1]			
Spectral Noise(1 to 100 Hz)		100 µg/√Hz		981 (µm/sec²)/√Hz [2]			
Electrical Isolation(Case)		>10 ⁸ Ohm		>10 ⁸ Ohm			
Physical							
Housing Material		Titanium		Titanium		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)	
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)			
							
[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.							