

Model Number 3741E1225G		DC RESPONSE ACCELEROMETER			Revision: B ECN #: 44052		
Performance		ENGLISH	SI		OPTIONAL VERSIONS		
Sensitivity(± 3 %)		160 mV/g	16.3 mV/(m/s²)	[6]	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	± 245.3 m/s² pk				
Frequency Range(± 3 dB)		0 to 750 Hz	0 to 750 Hz	[7]			
Frequency Range(± 3 dB)		0 to 1500 Hz	0 to 1500 Hz	[2]			
Phase Response(100 Hz)		<10 °	<10 °				
Broadband Resolution(0.5 to 100 Hz)		.6 mg rms	.0059 m/s² rms	[2]	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 100 Hz, 1 grms. [7]Minimum, verified with Calibration data. [8]Least-squares, straight line method, % FSO. [9]See PCB Declaration of Conformance PS027 for details.		
Non-Linearity		≤ 1 %	≤ 1 %	[8]			
Transverse Sensitivity		≤ 5 %	≤ 5 %				
Environmental							
Overload Limit(Shock)		± 5000 g pk	± 49,050 m/s² 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		± 3.0 %	± 3.0 %	[4]			
Zero g Offset Temperature Coefficient		± 2.0 % FSO	± 2.0 % FSO	[5][4]			
Base Strain Sensitivity(Measured at 250 µε)		.001 g	.01 m/s²	[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)		± 160 mVDC	± 160 mVDC	[1]			
Common Mode Voltage(± 0.1 VDC)		+2.5 VDC	+2.5 VDC				
Spectral Noise(1 to 100 Hz)		100 µg/√Hz	981 (µm/sec²)/√Hz	[2]			
Electrical Isolation(Case)		>10⁸ Ohm	>10⁸ Ohm	[3]			
Physical							
Housing Material		Anodized Aluminum	Anodized Aluminum				
Sealing		Epoxy	Epoxy		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)		
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)		.35 oz	9.92 gm	[2]			
Electrical Connector		Integral Cable	Integral Cable				
Electrical Connection Position		Side	Side				
Cable Termination		Pigtail Ends	Pigtail Ends		OPTIONAL ACCESSORIES: Model 080A208 Triaxial mounting block		
Cable Type		010 4-cond Shielded	010 4-cond Shielded				
Cable Length		10 ft	10 ft				
Mounting		Through Holes (2)	Through Holes (2)				
							
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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