

Model Number 3713E112G	TRIAXIAL DC RESPONSE ACCELEROMETER				Revision: C ECN #: 46196
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 3 %)	1000 mV/g	101.9 mV/(m/s²)	[5]	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	± 2 g pk	± 19.6 m/s² pk			
Frequency Range(± 3 dB)	0 to 400 Hz	0 to 400 Hz	[2]		
Frequency Range(± 3 dB)	0 to 200 Hz	0 to 200 Hz	[6]		
Phase Response(10 Hz)	<3.0 °	<3.0 °			
Broadband Resolution(0.5 to 100 Hz)	.1 mg rms	.001 m/s² rms	[2]	NOTES: [1] Offset tolerance is based on 10 ft of 037 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] Measured at 10 Hz, 1.0 pk [6] Minimum, verified with Calibration data. [7] Least-squares, straight line method, % FSO. [8] See PCB Declaration of Conformance PS027 for details.	
Non-Linearity	≤ 1 %	≤ 1 %	[7][4]		
Transverse Sensitivity	≤ 5 %	≤ 5 %			
Environmental					
Overload Limit(Shock)	± 2000 g pk	± 19,620 m/s² pk			
Temperature Range(Operating)	-65 to +250 °F	-54.0 to +121 °C		SUPPLIED ACCESSORIES: Model 080A12 Adhesive Mounting Base (1) Model 081B05 Mounting Stud (10-32 to 10-32) (1) Model ACS-145T Triaxial Calibration Phase and Magnitude from 2 Hz to ±3dB using Linear scale (1) Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)	
Temperature Range(Storage)	-65 to +250 °F	-54.0 to +121 °C			
Temperature Coefficient of Sensitivity	± 5 %	± 5 %	[3]		
Zero g Offset Temperature Coefficient	± 4 % FSO	± 4 % 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]	Entered: LK Engineer: JJD Sales: WDC Approved: NJF Spec Number:	
Electrical					
Excitation Voltage	6 to 30 VDC	6 to 30 VDC			
Current Consumption	≤ 30 mA	≤ 30 mA			
Output Impedance	≤ 120 Ohm	≤ 120 Ohm			
Offset Voltage(0 g)	± 160 mVDC	± 160 mVDC	[1]	Date: 11/23/2016 Date: 11/23/2016 Date: 11/23/2016 Date: 11/23/2016 58431	
Spectral Noise(1 to 100 Hz)	10 µg/√Hz	98.1 (µm/sec²)/√Hz	[2]		
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm			
Physical					
Housing Material	Titanium	Titanium			
Sealing	Hermetic	Hermetic		Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com	
Size (Length x Width x Height)	0.85 in x 0.85 in x 0.85 in	21.6 mm x 21.6 mm x 21.6 mm			
Weight	0.8 oz	22.7 gm			
Electrical Connector	9-Pin	9-Pin			
Electrical Connection Position	Side	Side			
Mounting Thread	10-32 Female	10-32 Female			
					
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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