

Model Number 3713B122G	TRIAXIAL DC RESPONSE ACCELEROMETER	Revision: C ECN #: 39611
----------------------------------	---	-----------------------------

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 5 %)	1000 mV/g	101.9 mV/(m/s ²)	[5]
Measurement Range	± 2 g pk	± 19.6 m/s ² pk	
Frequency Range(± 5 %)	0 to 250 Hz	0 to 250 Hz	
Frequency Range(± 10 %)	0 to 350 Hz	0 to 350 Hz	
Resonant Frequency	≥ 1.3 kHz	≥ 1.3 kHz	
Phase Response(10 Hz)	<2.5 °	<2.5 °	
Broadband Resolution(0.5 to 100 Hz)	.25 mg rms	.0025 m/s ² rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[6]
Transverse Sensitivity	≤ 3 %	≤ 3 %	
Environmental			
Overload Limit(Shock)	± 3000 g pk	± 29,420 m/s ² 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 %	± 3 %	[3]
Zero g Offset Temperature Coefficient	± 2 %FSO	± 2 %FSO	[3][4]
Base Strain Sensitivity	.0001 g/με	.001 (m/s ²)/με	[2]
Magnetic Sensitivity	43.7 μg/gauss	4.29 (m/s ²)/Tesla	[2]
Electrical			
Excitation Voltage	6 to 30 VDC	6 to 30 VDC	
Current Consumption	≤ 6 mA	≤ 6 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Offset Voltage(0 g)	± 40 mVDC	± 40 mVDC	[1]
Spectral Noise(1 to 100 Hz)	22.9 μg/√Hz	225 (μm/sec ²)/√Hz	[2]
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Length x Width x Height)	0.8 in x 0.8 in x 0.8 in	20.3 mm x 20.3 mm x 20.3 mm	
Weight(with cable)	4.2 oz	119 gm	
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Type	037 10-cond Shielded	037 10-cond Shielded	
Cable Length	10 ft	3.05 m	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

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 5 Hz, 0.5 grms.
 [6] Zero-based, least-squares, straight line method.
 [7] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

Model 080A12 Adhesive Mounting Base (1)
 Model 081B05 Mounting Stud (10-32 to 10-32) (1)
 Model ACS-85T Triaxial Phase and Magnitude Calibration form 0.5 Hz to 5% pt on linear scale (1)
 Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: AP	Engineer: RPF	Sales: RWM	Approved: BAM	Spec Number:
Date: 7/31/2012	Date: 7/31/2012	Date: 7/31/2012	Date: 7/31/2012	45422



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.

PCB PIEZOTRONICS™

3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001
 Fax: 716-684-0987
 E-Mail: info@pcb.com