

Model Number
3743G1150G

TRIAxIAL DC RESPONSE ACCELEROMETER

Revision: A
ECN #: 55463

Performance	ENGLISH	SI	
Sensitivity(± 3 %)	54 mV/g	5.5 mV/(m/s ²)	[1]
Measurement Range	± 50 g pk	± 490.5 m/s ² pk	
Frequency Range(± 5 %)	0 to 1,500 Hz	0 to 1,500 Hz	
Frequency Range(± 10 %)	0 to 2,000 Hz	0 to 2,000 Hz	
Resonant Frequency	6.5 kHz	6.5 kHz	[2]
Phase Response(100 Hz)	< 10 °	< 10 °	
Non-Linearity(Typical)	0.3 %	0.3 %	[3]
Non-Linearity(Max)	1 %	1 %	[3]
Broadband Resolution(0.5 to 100 Hz)	1.5 mg rms	0.015 m/s ² rms	[2]
Transverse Sensitivity(Typical)	1 %	1 %	
Transverse Sensitivity(Max)	3 %	3 %	
Environmental			
Overload Limit(Shock)	± 5,000 g pk	± 49,050 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	± 1 %	± 1 %	[4][2]
Zero g Offset Temperature Coefficient	± 1 % FSO	± 1 % FSO	[4][5][2]
Base Strain Sensitivity	.001 g/με	.01 (m/s ²)/με	[2]
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s ²)/Tesla	[2]
Electrical			
Excitation Voltage	5 to 32 VDC	5 to 32 VDC	
Current Consumption	≤ 15 mA	≤ 15 mA	
Output Impedance	≤ 120 Ohm	≤ 120 Ohm	
Offset Voltage(0 g)	± 20 mVDC	± 20 mVDC	[6]
Common Mode Voltage(+/- 0.1 VDC)	1.65 VDC	1.65 VDC	
Spectral Noise(1 Hz)	150 μg/√Hz	1,472 (μm/s ²)/√Hz	[2]
Spectral Noise(10 Hz)	150 μg/√Hz	1,472 (μm/s ²)/√Hz	[2]
Spectral Noise(100 Hz)	150 μg/√Hz	1,472 (μm/s ²)/√Hz	[2]
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical			
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Length x Width x Height)	0.76 in x 1.03 in x 0.66 in	19.3 mm x 26.2 mm x 16.8 mm	
Weight	0.92 oz	26 gm	[2]
Electrical Connector	8-Pin	8-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	Through Hole	Through Hole	

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] Measured at 100 Hz, 10 grms.
- [2] Typical.
- [3] Zero-based, least-squares, straight line method.
- [4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
- [5] FSO= Full Scale Output over the Measurement Range
- [6] Offset tolerance is based on 10ft of 528 test cable.
- [7] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

Model 081A135 Mounting screw and washer, 4-40 x 7/8" thread (2)
Model ACS-172T Triaxial Phase and Amplitude Calibration from 5 Hz to +5% frequency range (1)



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.
This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit <http://www.pcb.com>

Entered: ND	Engineer: JJD	Sales: JM	Approved: NJF	Spec Number:
Date: 01/09/2025	Date: 01/09/2025	Date: 01/09/2025	Date: 01/09/2025	79083

PCB PIEZOTRONICS Phone: 716-684-0001
AN AMPHENOL COMPANY Fax: 716-684-0987
E-Mail: info@pcb.com

3425 Walden Avenue, Depew, NY 14043