



Model Number 3743G1110G		TRIAXIAL DC RESPONSE ACCELEROMETER		Revision: A ECN #: 55463	
Performance		ENGLISH		SI	
Sensitivity(± 3 %)		270 mV/g		27.5 mV/(m/s ²) [1]	
Measurement Range		± 10 g pk		± 98.1 m/s ² pk	
Frequency Range(± 5 %)		0 to 1,000 Hz		0 to 1,000 Hz	
Frequency Range(± 10 %)		0 to 1,500 Hz		0 to 1,500 Hz	
Resonant Frequency		3.2 kHz		3.2 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)		0.3 mg rms		0.003 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][7]	
Common Mode Voltage(+/- 0.1 VDC)		1.65 VDC		1.65 VDC	
Spectral Noise(1 Hz)		30 μg/√Hz		294 (μm/s ²)/√Hz [2]	
Spectral Noise(10 Hz)		30 μg/√Hz		294 (μm/s ²)/√Hz [2]	
Spectral Noise(100 Hz)		30 μg/√Hz		294 (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, 1 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 10 ft of 037 test cable.					
[7]Offset tolerance is based on 10ft of 528 test cable.					
[8]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)					
Entered: ND		Engineer: JJD		Sales: JM	
Date: 01/09/2025		Date: 01/09/2025		Date: 01/09/2025	
				Approved: NJF	
				Spec Number:	
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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>