

Model Number 3743G1250G		TRIAXIAL DC RESPONSE ACCELEROMETER		Revision: NR ECN #: 55341	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
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		IP67	IP67		
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/ft	26.1 gm/m	[2]	
Accelerometer, Excluding Cable		0.30 oz/ft	27.6 gm/m	[2]	
Electrical Connector		Integral Cable	Integral Cable		
Electrical Connection Position		Side	Side		
Cable Type		037 10-cond Shielded	037 10-cond Shielded		
Mounting Thread		Through Hole	Through Hole		
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)					
Entered: ND Engineer: JJD Sales: JM Approved: NJF Spec Number: Date: 12/17/2024 Date: 12/17/2024 Date: 12/17/2024 Date: 12/17/2024 79901					
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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>