

Model Number 3743G112G		TRIAxIAL DC RESPONSE ACCELEROMETER		Revision: A ECN #: 55463	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 3 %)		1,350 mV/g	137.6 mV/(m/s ²)	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/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		1.2 kHz	1.2 kHz	[2]	
Phase Response(10 Hz)		< 2.5 °	< 2.5 °		
Non-Linearity(Typical)		0.3 %	0.3 %	[3]	
Non-Linearity(Max)		1 %	1 %	[3]	
Broadband Resolution(0.5 to 100 Hz)		0.06 mg rms	0.0006 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)		6 μg/√Hz	59 (μm/s ²)/√Hz	[2]	
Spectral Noise(10 Hz)		6 μg/√Hz	59 (μm/s ²)/√Hz	[2]	
Spectral Noise(100 Hz)		6 μg/√Hz	59 (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		