



Model Number 3743G115G		TRIAXIAL DC RESPONSE ACCELEROMETER		Revision: A ECN #: 55463	
<b>Performance</b>		<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b>	
Sensitivity(± 3 %)		540 mV/g	55.0 mV/(m/s <sup>2</sup> )	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		± 5 g pk	± 49.0 m/s <sup>2</sup> pk		
Frequency Range(± 5 %)		0 to 700 Hz	0 to 700 Hz		
Frequency Range(± 10 %)		0 to 1,000 Hz	0 to 1,000 Hz		
Resonant Frequency		1.9 kHz	1.9 kHz		
Phase Response(100 Hz)		< 10 °	< 10 °		
Non-Linearity(Typical)		0.3 %	0.3 %		
Non-Linearity(Max)		1 %	1 %		
Broadband Resolution(0.5 to 100 Hz)		0.15 mg rms	0.0015 m/s <sup>2</sup> rms		
Transverse Sensitivity(Typical)		1 %	1 %		
Transverse Sensitivity(Max)		3 %	3 %		
<b>Environmental</b>					
Overload Limit(Shock)		± 5,000 g pk	± 49,050 m/s <sup>2</sup> 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 %		
Zero g Offset Temperature Coefficient		± 1 % FSO	± 1 % FSO		
Base Strain Sensitivity		.001 g/με	.01 (m/s <sup>2</sup> )/με		
Magnetic Sensitivity		40 μg/gauss	3.9 (m/s <sup>2</sup> )/Tesla		
<b>Electrical</b>					
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		
Common Mode Voltage(+/- 0.1 VDC)		1.65 VDC	1.65 VDC		
Spectral Noise(1 Hz)		15 μg/√Hz	147 (μm/s <sup>2</sup> )/√Hz		
Spectral Noise(10 Hz)		15 μg/√Hz	147 (μm/s <sup>2</sup> )/√Hz		
Spectral Noise(100 Hz)		15 μg/√Hz	147 (μm/s <sup>2</sup> )/√Hz		
Electrical Isolation(Case)		> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm		
<b>Physical</b>					
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		
Electrical Connector		8-Pin	8-Pin		
Electrical Connection Position		Side	Side		
Mounting Thread		Through Hole	Through Hole		
<b>NOTES:</b> [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 10ft of 528 test cable. [7]See PCB Declaration of Conformance PS027 for details.					
<b>SUPPLIED ACCESSORIES:</b> 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:	
				79080	
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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 <a href="http://www.pcb.com">http://www.pcb.com</a>		3425 Walden Avenue, Depew, NY 14043			