


Model Number 3743G12200G		TRIAXIAL DC RESPONSE ACCELEROMETER			Revision: NR ECN #: 55341	
Performance		ENGLISH		SI	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.	
Sensitivity(± 3 %)		13.5 mV/g		1.38 mV/(m/s ²)		
Measurement Range		± 200 g pk		± 1,962 m/s ² pk		
Frequency Range(± 5 %)		0 to 1,500 Hz		0 to 1,500 Hz		
Frequency Range(± 10 %)		0 to 2,500 Hz		0 to 2,500 Hz		
Resonant Frequency		11.8 kHz		11.8 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)		6 mg rms		0.06 m/s ² rms		
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 %		
Zero g Offset Temperature Coefficient		± 1 % FSO		± 1 % FSO		
Base Strain Sensitivity		.001 g/με		.01 (m/s ²)/με		
Magnetic Sensitivity		40 μg/gauss		3.9 (m/s ²)/Tesla		
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		
Common Mode Voltage(+/- 0.1 VDC)		1.65 VDC		1.65 VDC		
Spectral Noise(1 Hz)		600 μg/√Hz		5,886 (μm/s ²)/√Hz		
Spectral Noise(10 Hz)		600 μg/√Hz		5,886 (μm/s ²)/√Hz		
Spectral Noise(100 Hz)		600 μg/√Hz		5,886 (μm/s ²)/√Hz		
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		26.1 gm		
Accelerometer, Excluding Cable		0.30 oz/ft		27.6 gm/m		
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		
<div><div><div>CE</div><div>UK</div><div>CA^[7]</div></div><div><p>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</p></div></div>						
<div><div><div>Entered: ND</div><div>Engineer: JJD</div><div>Sales: JM</div><div>Approved: NJF</div><div>Spec Number:</div></div><div><div>Date: 12/17/2024</div><div>Date: 12/17/2024</div><div>Date: 12/17/2024</div><div>Date: 12/17/2024</div><div>79903</div></div></div>						
<div><div><div><div>PCB PIEZOTRONICS</div><div>AN AMPHENOL COMPANY</div></div><div><p>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p></div></div><div><p>3425 Walden Avenue, Depew, NY 14043</p></div></div>						