

Model Number 3713B1110G	TRIAxIAL DC RESPONSE ACCELEROMETER		Revision D ECN #: 39611
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±5 %)	200 mV/g	20.4 mV/(m/s ²)	[5]
Measurement Range	±10 g pk	±98.1 m/s ² pk	
Frequency Range (±5 %)	0 to 1000 Hz	0 to 1000 Hz	
Frequency Range (±10 %)	0 to 1500 Hz	0 to 1500 Hz	
Resonant Frequency	≥2 kHz	≥2 kHz	
Phase Response (100 Hz)	<10 °	<10 °	
Broadband Resolution (0.5 to 100 Hz)	1.2 mg rms	0.012 m/s ² rms	[2]
Non-Linearity	≤1 %	≤1 %	[6]
Transverse Sensitivity	≤3 %	≤3 %	
Environmental			Notes
Overload Limit (Shock)	±3000 g pk	±29420 m/s ² pk	[1] Offset tolerance is based on 10 ft of 037 test cable.
Temperature Range (Operating)	-65 to +250 °F	-54.0 to +121 °C	[2] Typical.
Temperature Range (Storage)	-65 to +250 °F	-54.0 to +121 °C	[3] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
Temperature Coefficient of Sensitivity	±3 %	±3 %	[4] FSO = Full Scale Output over the Measurement Range (4VDC).
Zero g Offset Temperature Coefficient	±2 %FSO	±2 %FSO	[5] Measured at 100 Hz, 1 grms.
Base Strain Sensitivity	0.0001 g/με	0.001 (m/s ²)/με	[6] Zero-based, least-squares, straight line method.
Magnetic Sensitivity	10.5 μg/gauss	1.03 (m/s ²)/Tesla	[7] See PCB Declaration of Conformance PS027 for details.
Electrical			Supplied Accessories
Excitation Voltage	6 to 30 VDC	6 to 30 VDC	[3] 080A12 Adhesive Mounting Base (1)
Current Consumption	≤6 mA	≤6 mA	[4][3] 081B05 Mounting Stud (10-32 to 10-32) (1)
Output Impedance	≤100 Ohm	≤100 Ohm	[2] ACS-85T (1)
Offset Voltage (0 g)	±40 mVDC	±40 mVDC	[2] M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)
Spectral Noise (1 to 100 Hz)	107.9 μg/√Hz	1058 (μm/sec ²)/√Hz	
Electrical Isolation (Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Length x Width x Height)	0.8 in x 0.8 in x 0.8 in	20.3 mm x 20.3 mm x 20.3 mm	
Weight	0.6 oz	17.3 gm	
Electrical Connector	9-Pin	9-Pin	
Electrical Connection Position	Side	Side	
			
<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>ICP® is a registered trademark of PCB group, Inc.</p>			
Entered: AP	Engineer: RPF	Sales: RWM	Approved: BAM
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