



Model Number 3711D1FB20G	DC ACCELEROMETER		Revision F ECN #: 29264								
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 %)	100 mV/g	10.2 mV/(m/s ²)	[6]								
Measurement Range	±20 g pk	±196 m/s ² pk									
Frequency Range (±5 %)	0 to 1.0 kHz	0 to 1.0 kHz									
Frequency Range (±10 %)	0 to 1.5 kHz	0 to 1.5 kHz									
Resonant Frequency	>3.5 kHz	>3.5 kHz									
Phase Response (100 Hz)	<5 °	<5 °									
Damping Ratio (±0.25)	0.55	0.55	[3]								
Broadband Resolution (0.5 to 100 Hz)	3.56 mg rms	0.035 m/s ² rms	[3]								
Non-Linearity	≤1 %	≤1 %	[7]								
Transverse Sensitivity	≤3 %	≤3 %									
Environmental			Notes								
Overload Limit (Shock)	±5000 g pk	±49033 m/s ² pk	[1] Offset tolerance is based on 10 ft of 010 test cable.								
Temperature Range (Operating)	-65 to +250 °F	-54 to 121 °C	[2] Actual offset is called out on Cal Cert.								
Temperature Range (Storage)	-65 to +250 °F	-54 to +121 °C	[3] Typical.								
Temperature Coefficient of Sensitivity	±3 %	±3 %	[4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)								
Zero g Offset Temperature Coefficient	±2 % FSO	±2 % FSO	[5] FSO = Full Scale Output over the Measurement Range (4VDC).								
Base Strain Sensitivity	0.0004 g/με	0.004 (m/s ²)/με	[6] Measured at 100 Hz, 1 grms.								
Magnetic Sensitivity	30 μg/gauss	2.95 (m/s ²)/Tesla	[7] Zero-based, least-squares, straight line method.								
Electrical			[8] See PCB Declaration of Conformance PS027 for details.								
Excitation Voltage	5 to 30 VDC	5 to 30 VDC									
Current Consumption	≤10 mA	≤10 mA									
Output Impedance	≤100 Ohm	≤100 Ohm									
Offset Voltage (0 g)	±40 mVDC	±40 mVDC	[1][2]								
Spectral Noise (1 to 100 Hz)	356 μg/√Hz	3491 (μm/sec ²)/√Hz	[3]								
Electrical Isolation (Case)	>10 ⁸ Ohm	>10 ⁸ Ohm									
Physical			Supplied Accessories								
Housing Material	Titanium	Titanium	080A152 Easy Mount Clip (1)								
Sealing	Hermetic	Hermetic	081A113 Mounting screw assembly (2)								
Size (Height x Length x Width)	0.45 in x 0.85 in x 0.85 in	11.4 mm x 21.6 mm x 21.6 mm	ACS-103 Phase and Amplitude Calibration from 2 Hz to +5% of frequency range (1)								
Weight (with cable)	2.74 oz	77.8 gm	M081A113 Mounting screw assembly (2)								
Electrical Connector	Integral Cable	Integral Cable									
Electrical Connection Position	Side	Side									
Cable Termination	Pigtail Ends	Pigtail Ends									
Cable Type	010 4-cond Shielded	010 4-cond Shielded									
Cable Length	10 ft	3.05 m									
Mounting	Through Hole	Through Hole									
			<table border="1"> <tr> <td>Entered: BLB</td> <td>Engineer: BAM</td> <td>Sales: BLB</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 08/26/2008</td> <td>Date: 08/21/2008</td> <td>Date: 08/27/2008</td> <td>32890</td> </tr> </table>	Entered: BLB	Engineer: BAM	Sales: BLB	Spec Number:	Date: 08/26/2008	Date: 08/21/2008	Date: 08/27/2008	32890
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<i>All specifications are at room temperature unless otherwise specified.</i> In the interest of constant product improvement, we reserve the right to change specifications without notice.											
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