



Model Number 3711F112G	DC RESPONSE ACCELEROMETER - TEST			Revision: B ECN #: 55722
<b>Performance</b>		<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b> 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 %)	675 mV/g	68.8 mV/(m/s <sup>2</sup> )	[1]	
Measurement Range	± 2 g pk	± 19.6 m/s <sup>2</sup> 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 <sup>2</sup> rms	[2]	
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 %	[2][4]	
Zero g Offset Temperature Coefficient	± 1 % FSO	± 1 % FSO	[4][5][2]	
Base Strain Sensitivity	0.001 g/µε	0.01 (m/s <sup>2</sup> )/µε	[2]	
Magnetic Sensitivity	40 µg/gauss	3.9 (m/s <sup>2</sup> )/Tesla	[2]	
<b>Electrical</b>				
Excitation Voltage	5 to 32 VDC	5 to 32 VDC		
Current Consumption	≤ 5 mA	≤ 5 mA		
Output Impedance	≤ 120 Ohm	≤ 120 Ohm		
Offset Voltage(0 g)	+/- 20 mVDC	+/- 20 mVDC	[6]	
Spectral Noise(1 Hz)	6 µg/√Hz	59 (µm/s <sup>2</sup> )/√Hz	[2]	
Spectral Noise(10 Hz)	6 µg/√Hz	59 (µm/s <sup>2</sup> )/√Hz	[2]	
Spectral Noise(100 Hz)	6 µg/√Hz	59 (µm/s <sup>2</sup> )/√Hz	[2]	
Electrical Isolation(Case)	> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm		
<b>Physical</b>				
Housing Material	Titanium	Titanium		
Sealing	Hermetic	Hermetic		
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		
Weight	0.58 oz	16.3 gm		
Electrical Connector	4- Pin	4- Pin		
Electrical Connection Position	Side	Side		
Mounting	Through Hole	Through Hole		
				<b>NOTES:</b> [1] Measured at 5 Hz, 0.5 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 10 ft of 010 test cable. [7] See PCB Declaration of Conformance PS027 for details.
				<b>SUPPLIED ACCESSORIES:</b> Model 080A152 Easy Mount Clip (1) Model 081A113 Mounting screw assembly (2) Model ACS-85 Phase and Magnitude calibration from 0.5 Hz to 5% pt Linear scale (1) Model M081A113 Mounting screw assembly (2)
Entered: ND		Engineer: NJF	Sales: JM	Approved: NJF
Date: 05/07/2025		Date: 05/07/2025	Date: 05/07/2025	Date: 05/07/2025
				Spec Number: 70517
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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.				3425 Walden Avenue, Depew, NY 14043