Model Number 3711F1130G	DC RESPONSE ACCELEROMETER			
Performance	ENGLISH	SI		
Sensitivity(± 3 %)	45 mV/g	4.59 mV/(m/s²)	[1]	Optional versions have ide
Measurement Range	± 30 g pk	± 294.2 m/s² pk		WIII
Frequency Range(± 5 %)	0 to 1,500 Hz	0 to 1,500 Hz		
Frequency Range(± 10 %)	0 to 2,000 Hz	0 to 2,000 Hz		
Resonant Frequency	5.2 kHz	5.2 kHz	[2]	
Phase Response(100 Hz)	< 10 °	< 10 °		
Non-Linearity(Typical)	0.3 %	0.3 %	[3]	
Non-Linearity(Max)	1 %	1 %	[3]	
Broadband Resolution(0.5 to 100 Hz)	0.9 mg rms	0.009 m/s ² rms	[4]	
Transverse Sensitivity(Typical)	1 %	1 %		
Transverse Sensitivity(Max)	3 %	3 %		
Environmental				
Overload Limit(Shock)	± 5,000 g pk	± 49,050 m/s² 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 %	[4][5]	
Zero g Offset Temperature Coefficient	± 1 % FSO	± 1 % FSO	[5][6][4]	
Base Strain Sensitivity	0.001 g/με	0.01 (m/s²)/με	[4]	
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s²)/Tesla	[4]	
Electrical				
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	[7]	
Spectral Noise(1 Hz)	90 μg/√Hz	883 (µm/s²)/√Hz	[4]	
Spectral Noise(10 Hz)	90 μg/√Hz	883 (µm/s²)/√Hz	[4]	
Spectral Noise(100 Hz)	90 μg/√Hz	883 (µm/s²)/√Hz	[4]	
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm		
Physical				
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		NOTES:
Weight	0.58 oz	16.3 gm		[1]Measured at 100 Hz, 1
Electrical Connector	4-Pin	4-Pin		[2]Typical value.
	-11			

Side

Through Hole

Side

Through Hole

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Mounting

Electrical Connection Position

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.

OPTIONAL VERSIONS

Revision: A

ECN #: 53791

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

[1] Measured at 100 Hz, 1 grms.

[3]Zero-based, least-squares, straight line method.

[5]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)

[6]FSO= Full Scale Output over the Measurement Range

[7]Offset tolerance is based on 10 ft of 010 test cable.

[8] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

Model 080A152 Easy Mount Clip (1)

Model 081A113 Mounting screw assembly (2)

Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range

Model M081A113 Mounting screw assembly (2)

Entered: ND	Engineer: NJF	Sales: JM	Approved: BAM	Spec Number:
Date: 05/10/2023	Date: 05/10/2023	Date: 05/10/2023	Date: 05/10/2023	70519



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