

Model Number
3711B03

DC RESPONSE ACCELEROMETER

Revision: D
ECN #: 48385

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 5 %)	66.7 mV/g	6.80 mV/(m/s ²)	
Measurement Range	± 30 g pk	± 294.2 m/s ² pk	
Frequency Range(± 3 dB)	0 to 50 Hz	0 to 50 Hz	
Resonant Frequency	≥ 4 kHz	≥ 4 kHz	
Filter Type(2-pole)	Low Pass	Low Pass	
Electrical Filter Roll-off	12 dB/octave	12 dB/octave	
Electrical Filter Corner Frequency(-3 dB)	>45 - 55 Hz	>45 - 55 Hz	
Broadband Resolution(0.5 to 100 Hz)	2.4 mg rms	0.024 m/s ² rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[5]
Transverse Sensitivity	≤ 3 %	≤ 3 %	
Environmental			
Overload Limit(Shock)	± 3000 g pk	± 29,420 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	± 3 %	± 3 %	[3]
Zero g Offset Temperature Coefficient	± 2 % FSO	± 2 % FSO	[3][4]
Base Strain Sensitivity	0.0001 g/με	0.001 (m/s ²)/με	[2]
Magnetic Sensitivity	23.7 μg/gauss	2.32 (m/s ²)/Tesla	[2]
Electrical			
Excitation Voltage	6 to 30 VDC	6 to 30 VDC	
Current Consumption	≤ 6 mA	≤ 6 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Offset Voltage(0 g)	2460 to 2540 mVDC	2460 to 2540 mVDC	[1]
Spectral Noise(1 to 100 Hz)	88 μg/√Hz	863 (μm/sec ²)/√Hz	[2]
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	
Weight	0.58 oz	16.3 gm	
Electrical Connector	4-Pin	4-Pin	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	

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.

NOTES:

- [1] Offset tolerance is based on 10 ft of 010 test cable.
- [2] Typical.
- [3] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
- [4] FSO = Full Scale Output over the Measurement Range (4VDC).
- [5] Zero-based, least-squares, straight line method.
- [6] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

- Model 080A152 Easy Mount Clip (1)
- Model 081A113 Mounting screw assembly (2)
- Model ACS-133 Recalibration (1)
- Model M081A113 Mounting screw assembly (2)

Entered: LK	Engineer: BAM	Sales: KK	Approved: BAM	Spec Number:
Date: 6/15/2018	Date: 6/15/2018	Date: 6/15/2018	Date: 6/15/2018	45558



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.
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