



**Model 3713B112G**

**Product Type:** Accelerometer, Vibration Sensor

Triaxial MEMS DC accelerometer, 1000 mV/g, +/-2 g, +6 to 30 VDC excitation

View [photo](#) and [drawing](#) .

<b>PERFORMANCE</b>	<b>ENGLISH</b>	<b>SI</b>
Sensitivity(± 5 %)	1000 mV/g	101.9 mV/(m/s <sup>2</sup> ) [5]
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	≥ 1.3 kHz	≥ 1.3 kHz
Phase Response(10 Hz)	<2.5 °	<2.5 °
Broadband Resolution(0.5 to 100 Hz)	0.25 mg rms	0.0025 m/s <sup>2</sup> rms [2]
Non-Linearity	≤ 1 %	≤ 1 % [6]
Transverse Sensitivity	≤ 3 %	≤ 3 %
<b>ENVIRONMENTAL</b>		
Overload Limit(Shock)	± 3000 g pk	± 29,420 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	± 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 <sup>2</sup> )/με [2]
Magnetic Sensitivity	43.7 μg/gauss	4.29 (m/s <sup>2</sup> )/Tesla [2]
<b>ELECTRICAL</b>		
Excitation Voltage	6 to 30 VDC	6 to 30 VDC
Current Consumption	≤ 5 mA	≤ 5 mA
Output Impedance	≤ 100 ohm	≤ 100 ohm
Offset Voltage(0 g)	± 40 mVDC	± 40 mVDC [1]
Spectral Noise(1 to 100 Hz)	22.9 μg/√Hz	225 (μm/sec <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 (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
Mounting Thread	10-32 Female	10-32 Female
<b>SUPPLIED ACCESSORIES:</b>		
Model 080A12 Adhesive Mounting Base (1)		
Model 081B05 Mounting Stud (10-32 to 10-32) (1)		
Model ACS-85T Triaxial Phase and Magnitude Calibration form 0.5 Hz to 5% pt on linear scale (1)		
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)		

*All specifications are at room temperature unless otherwise specified.*

**NOTES:**

- [1] Offset tolerance is based on 10 ft of 037 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] Measured at 5 Hz, 1/2 grms.
- [6] Zero-based, least-squares, straight line method.

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



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