



Model 3713B1130G

Product Type: Accelerometer, Vibration Sensor

Triaxial MEMS DC accelerometer, 66.6 mV/g, +/- 30 g, +6 to 30 VDC excitation

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

PERFORMANCE	ENGLISH	SI
Sensitivity(± 5 %)	66.7 mV/g	6.80 mV/(m/s ²) [5]
Measurement Range	± 30 g pk	± 294 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	≥ 4 kHz	≥ 4 kHz
Phase Response(100 Hz)	<10 °	<10 °
Broadband Resolution(0.5 to 100 Hz)	3.5 mg rms	0.034 m/s ² rms [2]
Non-Linearity	≤ 1 %	≤ 1 % [6]
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 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	0.0002 g/με	0.002 (m/s ²)/με [2]
Magnetic Sensitivity	27.9 μg/gauss	2.8 (m/s ²)/Tesla [2]
ELECTRICAL		
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)	330 μg/√Hz	3237 (μm/sec ²)/√Hz [2]
Electrical Isolation(Case)	>10 ⁸ ohm	>10 ⁸ ohm
PHYSICAL		
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
SUPPLIED ACCESSORIES:		
Model 080A12 Adhesive Mounting Base (1)		
Model 081B05 Mounting Stud (10-32 to 10-32) (1)		
Model ACS-103T Triaxial Calibration Phase and Magnitude from 2 Hz to +5% using 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 100 Hz, 10 gms.

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

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



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