

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 15 g pk	± 147 m/s ² pk	
Frequency Range(± 5 %)	1 to 2000 Hz	1 to 2000 Hz	
Frequency Range(± 10 %)	0.7 to 3500 Hz	0.7 to 3500 Hz	
Frequency Range(± 3 dB)	0.35 to 5000 Hz	0.35 to 5000 Hz	
Resonant Frequency	≥ 15 kHz	≥ 15 kHz	
Broadband Resolution	0.0005 g rms	0.005 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit	± 1000 g pk	± 9810 m/s ² pk	
Temperature Range(Operating)	-450 to +250 °F	-200 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	<0.0005 g/με	<0.005 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	3 to 10 VDC	3 to 10 VDC	
Discharge Time Constant	>0.5 sec	>0.5 sec	
Settling Time(within 10% of bias)	<10	<10	
Spectral Noise(10 Hz)	22 μg/√Hz	216 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	6 μg/√Hz	58.9 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	1.6 μg/√Hz	15.7 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 Hz)	100 μg/√Hz	980 (μm/sec ²)/√Hz	[1]
Electrical Isolation	None (Optional) Ohm	None (Optional) Ohm	
Physical			
Size (Height x Hex)	1.18 in x 0.75 in	30.0 mm x 19.1 mm	
Weight	1.4 oz	40 gm	[1]
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	

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.

J - Ground Isolated		
Frequency Range(5 %)	2 Hz	2 Hz
Frequency Range(10 %)	3.5 Hz	3.5 Hz
Resonant Frequency	≥ 13 kHz	≥ 13 kHz
Electrical Isolation(Base)	>10 ⁸ Ohm	>10 ⁸ Ohm
Size - Hex x Height	0.75 in x 1.23 in	19.1 mm x 31.2 mm

NOTES:

[1] Typical.

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

[3] Transverse sensitivity is typically ≤ 3%.

[4] See PCB Declaration of Conformance PS023 for details.

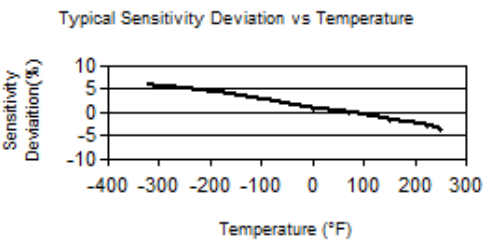
SUPPLIED ACCESSORIES:

Model 081B05 Mounting Stud (10-32 to 10-32) (1)

Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: LK	Engineer: LM	Sales: WDC	Approved: JJB	Spec Number:
Date: 4/19/2018	Date: 4/19/2018	Date: 4/19/2018	Date: 4/19/2018	351-2420-80



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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