

Model Number 621B40	VERY HIGH FREQUENCY ICP® ACCELEROMETER	Revision: N ECN #: 46615
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	[2]
Measurement Range	± 500 g	± 4905 m/s ²	
Frequency Range(± 10 %)	204 to 1,080,000 cpm	3.4 to 18,000 Hz	[3][4]
Frequency Range(± 3 dB)	96 to 1,800,000 cpm	1.6 to 30,000 Hz	[3][4]
Resonant Frequency	5100 kcpm	85 kHz	[1][5]
Broadband Resolution(1 to 10,000 Hz)	1.2 mg rms	1176 µm/sec ²	[1]
Non-Linearity	± 1 %	± 1 %	[6]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	10,000 g pk	98,100 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Electrical			
Settling Time(within 1% of bias)	≤ 3.0 sec	≤ 3.0 sec	
Discharge Time Constant	≥ 0.1 sec	≥ 0.1 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 Ohm	<100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	100 µg/√Hz	980 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	30 µg/√Hz	294 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	10 µg/√Hz	98.1 (µm/sec ²)/√Hz	[1]
Physical			
Size (Hex x Height)	3/8 in x 0.66 in	9.6 mm x 16.8 mm	
Weight	0.10 oz	2.8 gm	
Mounting Thread	5-40 Male	M3 x 0.50 Male	
Mounting Torque	18 to 20 in-lb	203 to 226 N-cm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	5-44 Coaxial Jack	5-44 Coaxial Jack	
Electrical Connection Position	Top	Top	

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.

M - Metric Mount


NOTES:

[1] Typical value.
 [2] Conversion Factor 1g = 9.81 m/s².
 [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
 [4] Frequency response with adhesive base.
 [5] Mounted resonance (nominal) without magnet.
 [6] Zero-based, least-squares, straight line method.
 [7] See PCB Declaration of Conformance PS023 for details.

OPTIONAL ACCESSORIES:

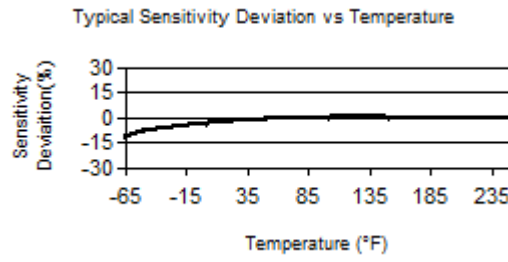
Model ICS-6 NIST traceable single axis amplitude response calibration from 10 Hz to upper +/- 3dB point. (1)

Entered: LK	Engineer: NJF	Sales: MC	Approved: NJF	Spec Number:
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All specifications are at room temperature unless otherwise specified.
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