

Model Number <b>621B40</b>	<b>VERY HIGH FREQUENCY ICP® ACCELEROMETER</b>	Revision: N ECN #: 46615
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	± 500 g	± 4905 m/s <sup>2</sup>	
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 <sup>2</sup>	[1]
Non-Linearity	± 1 %	± 1 %	[6]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	10,000 g pk	98,100 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
<b>Electrical</b>			
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 <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	30 µg/√Hz	294 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	10 µg/√Hz	98.1 (µm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
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/s<sup>2</sup>.  
 [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.

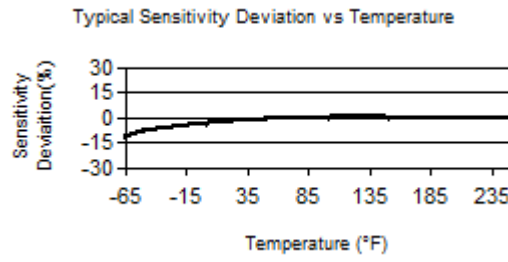
**OPTIONAL ACCESSORIES:**  
 Model ICS-6 NIST traceable single axis amplitude response calibration from 10 Hz to upper +/- 3dB point. (1)

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All specifications are at room temperature unless otherwise specified.  
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