Model	Number
6621	RPP71

3 WIRE LOW POWER EMBEDDABLE INDUSTRIAL ACCELEROMETER

Revision: NR ECN #: 54702

Performance	ENGLISH	SI	
Sensitivity(± 20 %)	100 mV/g	10.2 mV/(m/s ²)	[1][2]
Measurement Range	± 12.5 g	± 123 m/s ²	
Frequency Range(± 3 dB)	2 to 12.5k Hz	2 to 12.5k Hz	[3][4]
Resonant Frequency	> 25 kHz	> 25 kHz	[4]
Broadband Resolution	400 μg	3.9 mm/s ²	[5]
Non-Linearity	≤ 1 %	≤ 1 %	[6]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5,000 g pk	49k m/s² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 ℃	
Temperature Response	See Graph	See Graph	[5]
Electrical			
Settling Time(Within 10% of the output	350 µs	350 µs	[5]
bias)			
Discharge Time Constant	≥ 0.08 sec	≥ 0.08 sec	
Excitation Voltage	3 to 5.5 VDC	3 to 5.5 VDC	
Output Impedance	< 1,000 Ohm	< 1,000 Ohm	
Current Draw	60 μA	60 µA	[5]
Output Bias Voltage(± 5 %)	1.5 VDC	1.5 VDC	
Spectral Noise(10 Hz)	24 μg/√Hz	235 (µm/sec ²)/√Hz	[5]
Spectral Noise(100 Hz)	8 μg/√Hz	78 (µm/sec ²)/√Hz	[5]
Spectral Noise(1 kHz)	4 μg/√Hz	39 (µm/sec ²)/√Hz	[5]
Physical			
Size (Lip Diameter x Height)	0.36 x 0.38 in	9.1 mm x 9.7 mm	
Weight	0.1 oz	3 gm	
Mounting	Adhesive/Solder	Adhesive/Solder	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Header Pins	Header Pins	
Electrical Connection Position	Bottom	Bottom	
Electrical Connections(Pin 1)	Acceleration Output	Acceleration Output	
Electrical Connections(Pin 2)	Case	Case	
Electrical Connections(Pin 3)	Neg (-) Ground	Neg (-) Ground	
Electrical Connections(Pin 4)	Pos (+) Power	Pos (+) Power	

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.

NOTES:

- [1] Positive output along Z-axis (in upward direction when pin mounted).
- [2] Conversion Factor $1g = 9.81 \text{ m/s}^2$.
- [3] The high frequency tolerance is accurate within $\pm 10\%$ of the specified frequency.
- [4] Performance depends on mounting
- [5]Typical.
- [6]Zero-based, least-squares, straight line method.
- [7]See PCB Declaration of Conformance PS274 for details

SUPPLIED ACCESSORIES:

Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)

Entered: ND	Engineer: LAB	Sales: JL	Approved: NJF	Spec Number:
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Sensitivity Deviaition (%) Typical Sensitivity Deviation vs Temperature 10 5 0 -5 -10

Temperature (°F)

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.