

Model Number
66102ANZZ

ICP® LOW-PROFILE TO-5 ACCELEROMETER

Revision: B
ECN #: 49711

Performance	ENGLISH	SI	
Sensitivity(± 20 %)	10 mV/g	1.02 mV/(m/s ²)	[6][1]
Measurement Range	± 500 g	± 5,000 m/s ²	
Frequency Range(± 3 dB)	0.5 to 10 kHz	0.5 to 10 kHz	[3][7]
Resonant Frequency	> 25 kHz	> 25 kHz	[7]
Broadband Resolution	0.0018 g rms	0.017658 m/s ² rms	[4]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5,000 g pk	49k m/s ² pk	
Temperature Range(Operating)	-65 to +185 °F	-54 to +85 °C	
Temperature Response	See Graph	See Graph	[4]
Electrical			
Settling Time(within 1% of bias)	≤ 2 sec	≤ 2 sec	
Discharge Time Constant	≥ 0.3 sec	≥ 0.3 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)	19 µg/√Hz	186.4 (µm/sec ²)/√Hz	[4]
Spectral Noise(100 Hz)	8 µg/√Hz	78.5 (µm/sec ²)/√Hz	[4]
Spectral Noise(1 kHz)	5 µg/√Hz	49.1 (µm/sec ²)/√Hz	[4]
Physical			
Size - Lip Diameter	0.36 in	9.1 mm	
Size - Height	0.26 in	6.6 mm	
Weight	0.08 oz	2.2 gm	
Mounting	Adhesive	Adhesive	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Bottom	Bottom	
Cable Termination	Blunt cut	Blunt cut	
Electrical Connections(Red)	Signal / Power	Signal / Power	
Electrical Connections(Black)	Neg (-) Ground	Neg (-) Ground	
Cable Length	1 ft	0.3 m	
Cable Type	PVC	PVC	

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.

HT - High temperature, extends normal operation temperatures
 Temperature Range -65 to 250 °F -54 to 121 °C
 Cable Type 031 PTFE 031 PTFE
 Electrical Connections Signal / Power Signal / Power
 Electrical Connections Neg (-) Ground Neg (-) Ground

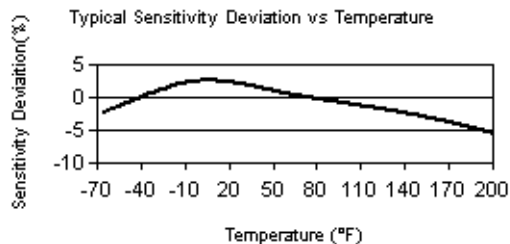
RH - RoHS Compliant

NOTES:

- [1] Conversion Factor 1g = 9.81 m/s².
- [2] Zero-based, least-squares, straight line method.
- [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4] Typical.
- [5] See PCB Declaration of Conformance PS023 or PS060 for details.
- [6] Negative output along Z-axis (in upward direction when pin mounted).
- [7] Performance depends on mounting

SUPPLIED ACCESSORIES:

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



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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Entered: LK	Engineer: YHK	Sales: MC	Approved: NJF	Spec Number:
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