

Model Number

66332APZ1

ICP® TO-8 ACCELEROMETER

Revision: B

ECN #: 41045

Performance

	ENGLISH	SI	
Sensitivity(± 20 %)	1000 mV/g	102 mV/(m/s ²)	[3][2]
Measurement Range	± 5 g	± 50 m/s ²	
Frequency Range(± 3 dB)	0.25 to 5k Hz	0.25 to 5k Hz	[4][5]
Resonant Frequency	>16 kHz	>16 kHz	[5]
Broadband Resolution	38 µg rms	373 µm/sec ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[6]
Transverse Sensitivity	≤ 7 %	≤ 7 %	

Environmental

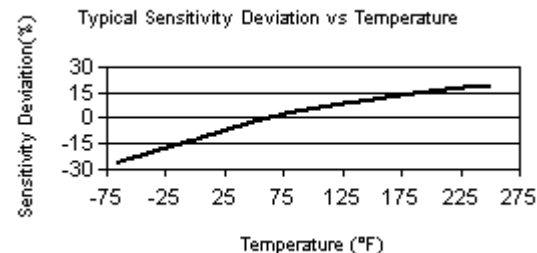
Acceleration Sensitivity(± 20 %)	1000 mV/g	102 mV/(m/s ²)	[2]
Overload Limit(Shock)	5000 g pk	49k m/s ² pk	
Temperature Range(Operating)	-65 to +185 °F	-54 to +85 °C	
Temperature Response	See Graph	See Graph	[1]

Electrical

Settling Time(within 1% of bias)	≤ 30 sec	≤ 30 sec	
Discharge Time Constant	≥ 0.65 sec	≥ 0.65 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<550 Ohm	<550 Ohm	
Output Bias Voltage(± 10 %)	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	1.9 µg/√Hz	18.6 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	0.6 µg/√Hz	5.9 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	0.4 µg/√Hz	3.9 (µm/sec ²)/√Hz	[1]

Physical

Size (Lip Diameter x Height)	0.64 in x 0.57 in	16.3 mm x 14.5 mm
Weight	0.88 oz	25 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)	Signal / Power	Signal / Power
Electrical Connections(Pin 2)	Ground	Ground
Electrical Connections(Pin 3)	No Connection	No Connection



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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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(Operating) -65 to 250 °F -54 to 121 °C

RH - RoHS Compliant

NOTES:

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

SUPPLIED ACCESSORIES:

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

Entered: AP	Engineer: do	Sales: fd	Approved: BAM	Spec Number:
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