



Model 66162APZ1

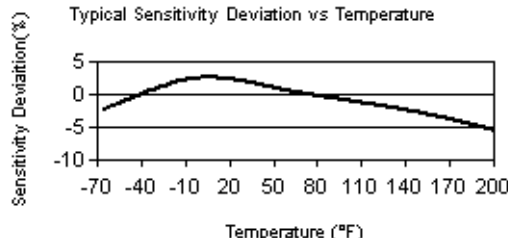
Low cost embeddable accelerometer, 2-wire ICP®, 1 mV/g, low profile TO5 housing, positive output, header pins

Installation and Operating Manual

**For assistance with the operation of this product,
contact the PCB Piezotronics, Inc.**

**Toll-free: 800-959-4464
24-hour SensorLine: 716-684-0001
Fax: 716-684-3823
E-mail: imi@pcb.com
Web: www.imi-sensors.com**



Model Number 66162APZ1		ICP® LOW-PROFILE TO-5 ACCELEROMETER			Revision: A ECN #: 55512	
Performance		ENGLISH		SI	OPTIONAL VERSIONS	
Sensitivity(± 20 %)		1 mV/g		0.10 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range		± 5,000 g pk		± 50,000 m/s ² pk	HT - High temperature, extends normal operation temperatures	
Frequency Range(± 3 dB)		0.5 to 10,000 Hz		0.5 to 10,000 Hz	Temperature Range(Operating) -65 to 250 °F -54 to 121 °C	
Resonant Frequency		> 25 kHz		> 25 kHz	RH - RoHS Compliant	
Broadband Resolution		4.6 µg		45 µm/sec ²		
Non-Linearity		≤ 1 %		≤ 1 %		
Transverse Sensitivity		≤ 7 %		≤ 7 %		
Environmental						
Overload Limit(Shock)		5,000 g pk		49,000 m/s ² pk		
Temperature Range(Operating)		-65 to +185 °F		-54 to +85 °C		
Temperature Response		See Graph		See Graph		
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)		229 µg/√Hz		2,246 (µm/sec ²)/√Hz	[5]	
Spectral Noise(100 Hz)		61 µg/√Hz		598 (µm/sec ²)/√Hz	[5]	
Spectral Noise(1 kHz)		30 µg/√Hz		294 (µm/sec ²)/√Hz	[5]	
Physical						
Size (Lip Diameter x Height)		0.36 in x 0.26 in		9.1 mm x 6.6 mm		
Weight		0.08 oz		2.2 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(Chrome-Plated Brass)		Neg (-) Ground		Neg (-) Ground		
Electrical Connections(Pin 3)		No Connection		No Connection		
						
						

2

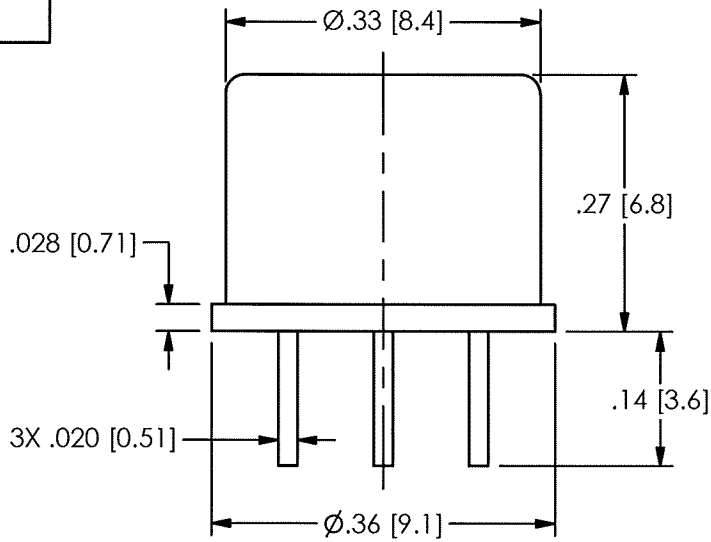
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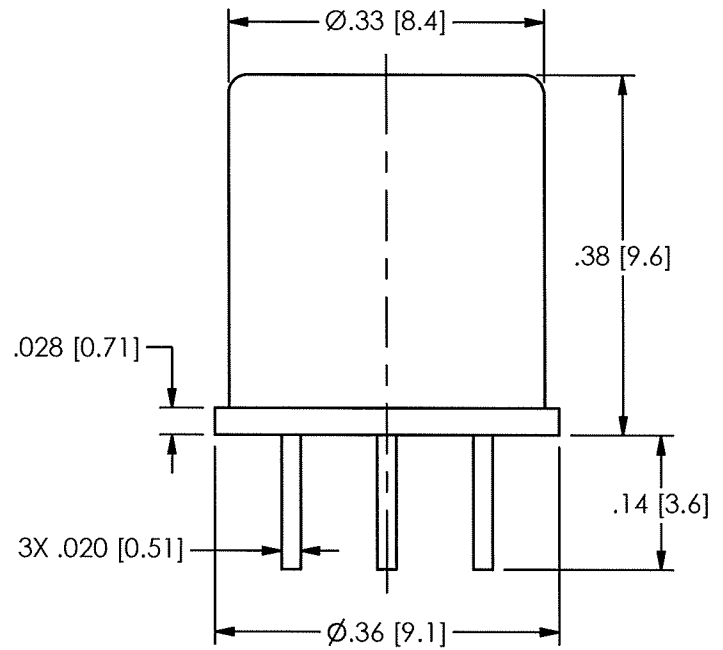
REVISIONS

REV	DESCRIPTION	DIN
NR	RELEASED TO DRAFTING	35624

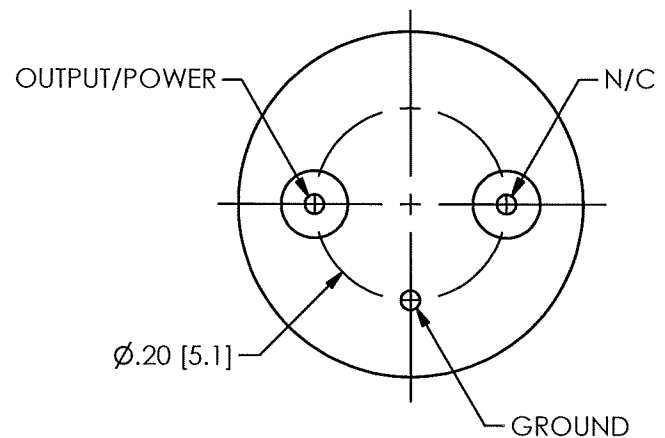
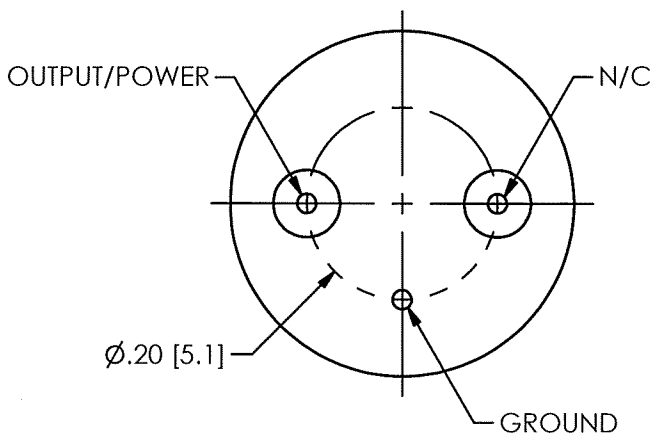
49902



LOW PROFILE



STANDARD PROFILE



UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

DIMENSIONS IN INCHES

DECIMALS XX ± 0.03
XXX ± 0.010

ANGLES ± 2 DEGREES

FILLETS AND RADII
.003 - .005

DIMENSIONS IN MILLIMETERS
[IN BRACKETS]

DECIMALS X ± 0.8
XX ± 0.25

ANGLES ± 2 DEGREES

FILLETS AND RADII
0.07 - 0.13

DRAWN

MOF 5/7/11

CHECKED

ECB 5/5/11

ENGINEER

LAB 5/5/11

TITLE

OUTLINE DRAWING
MODEL 660 SERIES
ICP[®] ACCELEROMETER

PCB PIEZOTRONICS^{INC}

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CODE
IDENT. NO.
52681

DWG. NO.

49902

SCALE: 5X

SHEET 1 OF 1

2

1