



Model 66392CPZ1

Low cost embeddable accelerometer, 2-wire charge, 100 pC/g, TO8 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 66392CPZ1	CHARGE OUTPUT TO-8 ACCELEROMETER				Revision: A ECN #: 46956		
Performance	ENGLISH	SI	OPTIONAL VERSIONS				
Sensitivity($\pm 20\%$)	100 pC/g	10.2 pC/(m/s ²)	[2][3]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.			
Frequency Range(± 3 dB)	5 kHz	5 kHz	[4][5]				
Resonant Frequency	>16 kHz	>16 kHz	[4]				
Non-Linearity	$\leq 1\%$	$\leq 1\%$	[6]				
Transverse Sensitivity	$\leq 7\%$	$\leq 7\%$					
Environmental							
Overload Limit(Shock)	5000 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	[1]				
Electrical							
Capacitance	2700 pF	2700 pF	[1]				
Physical							
Size (Lip Diameter x Height)	0.64 in x 0.57 in	16.3 mm x 14.5 mm		NOTES:			
Weight	0.88 oz	25 gm		[1] Typical.			
Mounting	Adhesive/Solder	Adhesive/Solder		[2] Conversion Factor 1g = 9.81 m/s ² .			
Sensing Element	Ceramic	Ceramic		[3] Positive output along Z-axis (in upward direction when pin mounted).			
Sensing Geometry	Shear	Shear		[4] Performance depends on mounting.			
Housing Material	Stainless Steel	Stainless Steel		[5] The high frequency tolerance is accurate within $\pm 10\%$ of the specified frequency.			
Sealing	Welded Hermetic	Welded Hermetic		[6] Zero-based, least-squares, straight line method.			
Electrical Connector	Header Pins	Header Pins		[7] See PCB Declaration of Conformance PS023 or PS060 for details.			
Electrical Connection Position	Bottom	Bottom					
Electrical Connections(Pin 1)	Output	Output					
Electrical Connections(Pin 2)	Neg (-) Ground	Neg (-) Ground					
Electrical Connections(Pin 3)	No Connection	No Connection					
Typical Sensitivity Deviation vs Temperature							
SUPPLIED ACCESSORIES: Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)							
Entered: LK	Engineer: BAM	Sales: WDC	Approved: BAM	Spec Number:			
Date: 8/8/2017	Date: 8/8/2017	Date: 8/8/2017	Date: 8/8/2017	47343			
 Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com							



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.

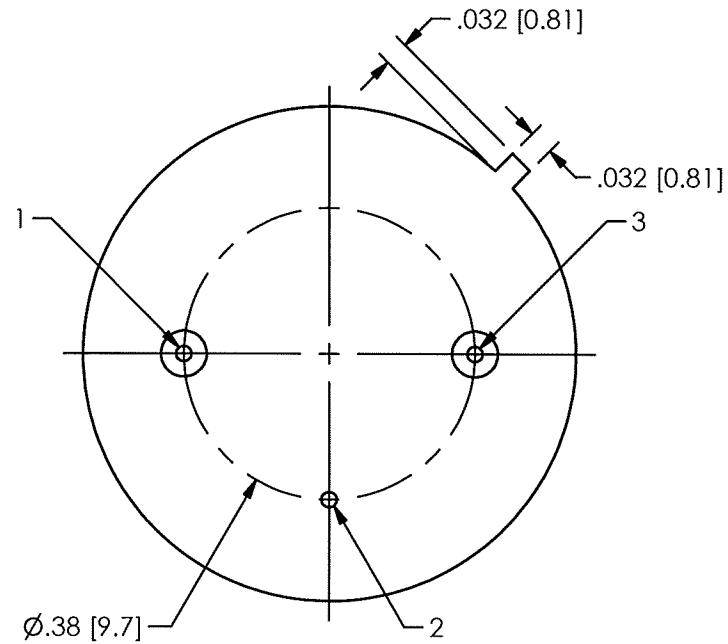
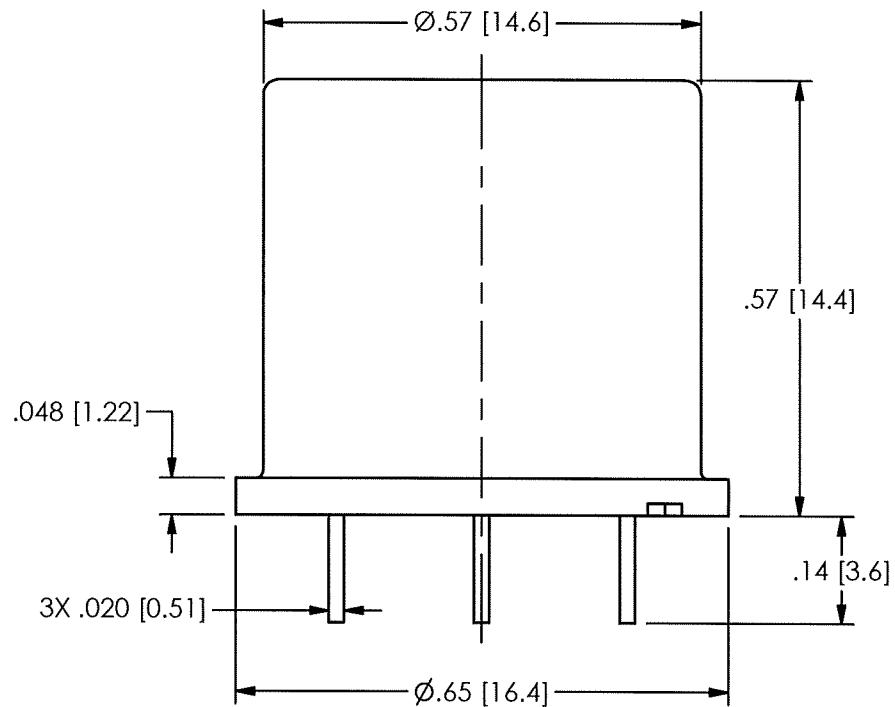
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REVISIONS

REV	DESCRIPTION	DIN
NR	RELEASED TO DRAFTING	35624

49905



CHARGE: 1 - OUTPUT
2 - GROUND
3 - N/C

ICP®: 1 - OUTPUT/POWER
2 - GROUND
3 - N/C

3-WIRE: 1 - OUTPUT
2 - GROUND
3 - POWER

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

DRAWN

CHECKED

ENGINEER

PCB PIEZOTRONICS Inc.

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(716) 684-0001 E-MAIL: sales@pcb.com

CODE
IDENT. NO.
52681

DWG. NO.

49905

SCALE: 4X SHEET 1 OF 1

DIMENSIONS IN INCHES

DIMENSIONS IN MILLIMETERS
[IN BRACKETS]

DECIMALS XX ±.03
XXX ±.010

DECIMALS X ±.08
XX ±.025

ANGLES ± 2 DEGREES

ANGLES ± 2 DEGREES

FILLETS AND RADII
.003 - .005

FILLETS AND RADII
.007 - .013

OUTLINE DRAWING
MODEL 663 SERIES
ACCELEROMETER