



Model Number 106B52	ICP® PRESSURE SENSOR			Revision: D ECN #: 55157
<p>Performance</p> <p>Measurement Range(for ±5V output) Useful Overrange(±10V) Sensitivity(± 15 %) Maximum Pressure(step) Maximum Pressure Resolution Resonant Frequency Rise Time(Reflected) Low Frequency Response(- 5 %) Non-Linearity</p> <p>Environmental</p> <p>Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Vibration Maximum Shock</p> <p>Electrical</p> <p>Output Polarity(Positive Pressure) Discharge Time Constant(at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage</p> <p>Physical</p> <p>Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight</p>	<p>ENGLISH</p> <p>1 psi 2 psi 5,000 mV/psi 10 psi 50 psi 0.02 mpsi ≥ 40 kHz ≤ 12.5 μ sec 2.5 Hz ≤ 1 % FS</p> <p>0.002 psi/g -65 to +250 °F ≤ 0.03 %/°F 500 g pk 1,000 g pk</p> <p>Positive ≥ 0.2 sec 24 to 27 VDC 2 to 20 mA < 100 Ohm 7 to 14 VDC</p> <p>Compression Quartz 17-4 Stainless Steel 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 1.2 oz</p>	<p>SI</p> <p>6.89 kPa 13.8 kPa 725 mV/kPa 68.9 kPa 345 kPa .00013 kPa [1] ≥ 40 kHz ≤ 12.5 μ sec 2.5 Hz ≤ 1 % FS [2]</p> <p>0.0014 kPa/(m/s²) [1] -54 to +121 °C ≤ 0.054 %/°C 4,900 m/s² pk 9,800 m/s² pk</p> <p>Positive ≥ 0.2 sec 24 to 27 VDC 2 to 20 mA < 100 Ohm 7 to 14 VDC</p> <p>Compression Quartz 17-4 Stainless Steel 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 35 gm</p>		<p>OPTIONAL VERSIONS</p> <p>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.</p> <p>E - Emralon coating Coating Electrical Isolation Emralon 10⁸ Ohm Emralon 10⁸ Ohm [4]</p> <p>J - Ground Isolated Electrical Isolation(50 V) 10⁸ Ohm 10⁸ Ohm</p> <p>N - Negative Output Polarity [5]</p> <p>W - Water Resistant Cable Supplied Accessory: Model 060A11 Acetal clamp nut 3/4-16-2A thd 3/4" hex (1) [5]</p> <p>WM - Water Resistant Cable Supplied Accessory: Model 060A13 Metric Acetal clamp nut M20 x 1.5-6g thd 20 mm hex (1)</p>
<p>NOTES:</p> <p>[1]Typical. [2]Zero-based, least-squares, straight line method. [3]See PCB Declaration of Conformance PS023 for details. [4]Used with optional mounting adaptor. [5]Clamp nut installed prior to cable attachment</p>				
<p>SUPPLIED ACCESSORIES:</p> <p>Model 065A36 Seal, .687" OD x .625" ID x .060", Derlin (3) Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range. Model PCS-24 Sensor sensitivity calibration with Pistonphone</p>				
Entered: ND	Engineer: RPF	Sales: KWW	Approved: RPF	Spec Number:
Date: 08/29/2024	Date: 08/29/2024	Date: 08/29/2024	Date: 08/29/2024	22933
<p> [3]</p> <p>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. ICP® is a registered trademark of PCB Piezotronics, Inc.</p> <p> PCB PIEZOTRONICS AN AMPHENOL COMPANY Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p> <p>3425 Walden Avenue, Depew, NY 14043</p>				