



Model Number 102B18	ICP® PRESSURE SENSOR			Revision: E ECN #: 54949								
<p>Performance</p> <p>Measurement Range(for ±5V output) 50 psi</p> <p>Useful Overrange(for ± 10V output) 100 psi</p> <p>Sensitivity(± 5 mV/psi) 100 mV/psi</p> <p>Maximum Pressure 1,000 psi</p> <p>Resolution 1.0 mpsi</p> <p>Resonant Frequency ≥ 500 kHz</p> <p>Rise Time(Reflected) ≤ 1.0 µ sec</p> <p>Low Frequency Response(- 5 %) 0.5 Hz</p> <p>Non-Linearity ≤ 1.0 % FS</p> <p>Environmental</p> <p>Acceleration Sensitivity 0.002 psi/g</p> <p>Temperature Range(Operating) -100 to +275 °F</p> <p>Temperature Coefficient of Sensitivity ≤ 0.03 %/°F</p> <p>Maximum Flash Temperature 3,000 °F</p> <p>Maximum Vibration 2,000 g pk</p> <p>Maximum Shock 20,000 g pk</p> <p>Electrical</p> <p>Discharge Time Constant(at room temp) ≥ 1.0 sec</p> <p>Excitation Voltage 20 to 30 VDC</p> <p>Constant Current Excitation 2 to 20 mA</p> <p>Output Impedance < 100 Ohm</p> <p>Output Bias Voltage 8 to 15 VDC</p> <p>Electrical Isolation 10⁸ Ohm</p> <p>Physical</p> <p>Sensing Geometry Compression</p> <p>Sensing Element Quartz</p> <p>Housing Material Stainless Steel</p> <p>Diaphragm Invar</p> <p>Sealing Welded Hermetic</p> <p>Electrical Connector 10-32 Coaxial Jack</p> <p>Weight 0.50 oz</p>	<p>ENGLISH</p>	<p>SI</p>	<p>[1]</p> <p>[2]</p> <p>[3]</p> <p>[2]</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>CA - Ablative Coating</p> <p>M - Metric Mount Supplied Accessory: Model 065A40 Seal ring 0.435" OD x 0.397" ID x 0.030" thk brass (3) replaces Model 065A03</p> <p>N - Negative Output Polarity</p> <p>S - Stainless Steel Diaphragm 316L Stainless Steel 316L Stainless Steel</p> <p>W - Water Resistant Cable</p> <p>NOTES:</p> <p>[1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.</p> <p>[2] Typical.</p> <p>[3] Zero-based, least-squares, straight line method.</p> <p>[4] See PCB Declaration of Conformance PS023 for details.</p> <p>SUPPLIED ACCESSORIES:</p> <p>Model 065A03 Seal ring 0.435" OD x 0.377" ID x 0.030" thk brass (3)</p> <p>Model PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range (3)</p>								
		<table border="1"> <tr> <td data-bbox="1129 1274 1283 1317">Entered: ND</td> <td data-bbox="1283 1274 1436 1317">Engineer: AJA</td> <td data-bbox="1436 1274 1589 1317">Sales: RWM</td> <td data-bbox="1589 1274 1743 1317">Approved: RPF</td> <td data-bbox="1743 1274 1915 1317">Spec Number:</td> </tr> <tr> <td data-bbox="1129 1317 1283 1356">Date: 06/25/2024</td> <td data-bbox="1283 1317 1436 1356">Date: 06/25/2024</td> <td data-bbox="1436 1317 1589 1356">Date: 06/25/2024</td> <td data-bbox="1589 1317 1743 1356">Date: 06/25/2024</td> <td data-bbox="1743 1317 1915 1356">40749</td> </tr> </table>	Entered: ND	Engineer: AJA	Sales: RWM	Approved: RPF	Spec Number:	Date: 06/25/2024	Date: 06/25/2024	Date: 06/25/2024	Date: 06/25/2024	40749
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 <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>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p> <p>3425 Walden Avenue, Depew, NY 14043</p>											