



| Model Number 108A04 | ICP® PRESSURE SENSOR | | Revision: NR ECN #: |
|---|----------------------|--|--|
| Performance | ENGLISH | SI | 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. M - Metric Mount N - Negative Output Polarity W - Water Resistant Cable |
| Measurement Range (for ± 4.5V output) | 30 kpsi | 207,000 kPa | |
| Sensitivity (± 15 %) | 0.15 mV/psi | 0.022 mV/kPa | NOTES: [1] Zero-based, least-squares, straight line method. [2] See PCB Declaration of Conformance PS023 for details. |
| Maximum Pressure | 50 kpsi | 344,750 kPa | |
| Resolution | 500 mpsi | 3.5 kPa | |
| Resonant Frequency | ≥ 250 kHz | ≥ 250 kHz | |
| Rise Time (Reflected) | ≤ 2 μ sec | ≤ 2 μ sec | |
| Low Frequency Response (-5 %) | 0.002 Hz | 0.002 Hz | |
| Non-Linearity | ≤ 2 % FS | ≤ 2 % FS | |
| Environmental | | | |
| Acceleration Sensitivity | ≤ 0.05 psi/g | ≤ 0.035 kPa/(m/s ²) | |
| Temperature Range (Operating) | -100 to +275 °F | -73 to +135 °C | |
| Temperature Coefficient of Sensitivity | ≤ 0.10 %/°F | ≤ 0.18 %/°C | |
| Maximum Vibration | 2000 g pk | 19,614 m/s ² pk | |
| Maximum Shock | 20,000 g pk | 196,140 m/s ² pk | |
| Electrical | | | SUPPLIED ACCESSORIES: Model 065A06 Seal ring 0.318" OD x 0.250" ID x 0.010" thk 316L SS material (3) |
| Output Polarity (Positive Pressure) | Positive | Positive | |
| Discharge Time Constant (at room temp) | ≥ 250 sec | ≥ 250 sec | |
| Excitation Voltage | 20 to 30 VDC | 20 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | ≤ 100 ohm | ≤ 100 ohm | |
| Output Bias Voltage | 8 to 14 VDC | 8 to 14 VDC | |
| Physical | | | |
| Sensing Geometry | Compression | Compression | |
| Sensing Element | Quartz | Quartz | |
| Housing Material | C-300 | C-300 | |
| Diaphragm | C-300 | C-300 | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | 10-32 Coaxial Jack | 10-32 Coaxial Jack | |
| Weight | 0.48 oz | 13.6 gm | |
|  [2] | | | Entered: <i>BLS</i> Engineer: <i>NJL</i> Sales: <i>DPC</i> Approved: <i>RF</i> Spec Number: |
| | | | Date: <i>4-4-05</i> Date: <i>4-4-05</i> Date: <i>4/4/05</i> Date: <i>4/4/05</i> 28544 |
|  [2] | | PCB PIEZOTRONICS™ PRESSURE DIVISION 3425 Walden Avenue, Depew, NY 14043 | |
| 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 Group, Inc. | | Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com | |



Represented in India by

Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029