


| Model Number 109C12 | ICP® PRESSURE SENSOR | | Revision: E ECN #: 27048 | | | | | | | | | | |
|--|-----------------------------|---------------------------------|--|---------------------|---------------------|-------------------|---------------------|--------------|----------------------|---------------------|---------------------|---------------------|--------------|
| 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. | | | | | | | | | | |
| Measurement Range(for ± 7V output) | 100 kpsi | 690,000 kPa | | | | | | | | | | | |
| Sensitivity(± 15 %) | 0.07 mV/psi | 0.010 mV/kPa | H - Hermetic Seal Housing Material 17-4 Stainless Steel 17-4 Stainless Steel Maximum Shock 20,000 g pk 196,133 Sealing Welded Hermetic Welded Hermetic | | | | | | | | | | |
| Maximum Pressure | 125 kpsi | 862,000 kPa | | | | | | | | | | | |
| Resolution | 2.0 psi | 13.8 kPa | M - Metric Mount | | | | | | | | | | |
| Resonant Frequency | ≥ 400 kHz | ≥ 400 kHz | | | | | | | | | | | |
| Rise Time | ≤ 2.0 μ sec | ≤ 2.0 μ sec | N - Negative Output Polarity | | | | | | | | | | |
| Non-Linearity | ≤ 2.0 % FS | ≤ 2.0 % FS | | | | | | | | | | | |
| Environmental | | | W - Water Resistant Cable | | | | | | | | | | |
| Acceleration Sensitivity | ≤ 0.02 psi/g | ≤ 0.015 kPa/(m/s ²) | | | | | | | | | | | |
| Temperature Range(Operating) | -100 to +275 °F | -73 to +135 °C | NOTES: [1] Zero-based, least-squares, straight line method. [2] Ceramic coated. [3] See PCB Declaration of Conformance PS023 for details. | | | | | | | | | | |
| Temperature Coefficient of Sensitivity | ≤ 0.07 %/°F | ≤ 0.126 %/°C | | | | | | | | | | | |
| Maximum Flash Temperature | 3000 °F | 1650 °C | SUPPLIED ACCESSORIES: Model 065A06 Seal ring 0.318" OD x 0.250" ID x 0.010" thk 316L SS material (3) | | | | | | | | | | |
| Maximum Vibration | 2000 g pk | 19,620 m/s ² pk | | | | | | | | | | | |
| Maximum Shock | 50,000 g pk | 490,330 m/s ² pk | <table border="1"> <tr> <td>Entered: <i>BLS</i></td> <td>Engineer: <i>RF</i></td> <td>Sales: <i>DRC</i></td> <td>Approved: <i>RF</i></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <i>8-11-07</i></td> <td>Date: <i>8-7-07</i></td> <td>Date: <i>8-7-07</i></td> <td>Date: <i>8-7-07</i></td> <td>21925</td> </tr> </table> | Entered: <i>BLS</i> | Engineer: <i>RF</i> | Sales: <i>DRC</i> | Approved: <i>RF</i> | Spec Number: | Date: <i>8-11-07</i> | Date: <i>8-7-07</i> | Date: <i>8-7-07</i> | Date: <i>8-7-07</i> | 21925 |
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| Electrical | | |  [3] | | | | | | | | | | |
| Output Polarity(Positive Pressure) | Positive | Positive | | | | | | | | | | | |
| Discharge Time Constant(at room temp) | ≥ 2000 sec | ≥ 2000 sec | PCB PIEZOTRONICS™ PRESSURE DIVISION 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com | | | | | | | | | | |
| 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 | Epoxy | Epoxy | | | | | | | | | | | |
| Electrical Connector | 10-32 Coaxial Jack | 10-32 Coaxial Jack | | | | | | | | | | | |
| Weight | 0.6 oz | 17 gm | | | | | | | | | | | |

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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