

Model Number
106B

ICP® PRESSURE SENSOR

Revision: Y
ECN #: 29520

| | ENGLISH | SI | |
|--|--------------------------|----------------------------------|-----|
| Performance | | | |
| Measurement Range(for ±2.5V output) | 8.3 psi | 57.2 kPa | |
| Sensitivity(± 15 %) | 300 mV/psi | 43.5 mV/kPa | |
| Maximum Pressure(step) | 200 psi | 1379 kPa | |
| Maximum Pressure | 2 kpsi | 13,790 kPa | |
| Resolution | 0.1 mpsi | 0.00069 kPa | [1] |
| Resonant Frequency | ≥ 60 kHz | ≥ 60 kHz | |
| Rise Time | ≤ 9 μ sec | ≤ 9 μ sec | |
| Low Frequency Response(-5 %) | 0.5 Hz | 0.5 Hz | |
| Non-Linearity | ≤ 1 % FS | ≤ 1 % FS | [2] |
| Environmental | | | |
| Acceleration Sensitivity | ≤ 0.002 psi/g | ≤ 0.0014 kPa/(m/s ²) | |
| Temperature Range(Operating) | -65 to +250 °F | -54 to +121 °C | |
| Temperature Coefficient of Sensitivity | ≤ 0.05 %/°F | ≤ 0.09 %/°C | |
| Maximum Flash Temperature | 3000 °F | 1649 °C | |
| Maximum Shock | 2000 g pk | 19,600 m/s ² pk | |
| Electrical | | | |
| Output Polarity(Positive Pressure) | Positive | Positive | |
| Discharge Time Constant(at room temp) | ≥ 1 sec | ≥ 1 sec | |
| Excitation Voltage | 12 to 30 VDC | 12 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | ≤ 100 ohm | ≤ 100 ohm | |
| Output Bias Voltage | 3 to 8 VDC | 3 to 8 VDC | |
| Physical | | | |
| Sensing Geometry | Compression | Compression | |
| Sensing Element | Quartz | Quartz | |
| Housing Material | 304/304L Stainless Steel | 304/304L Stainless Steel | |
| Diaphragm | 316L Stainless Steel | 316L Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | 10-32 Coaxial Jack | 10-32 Coaxial Jack | |
| Weight | 0.63 oz | 18.0 gm | |

| 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. | | |
| E - Emralon coating | | |
| Coating | Emralon | Emralon |
| Electrical Isolation | 10 ⁸ ohm | 10 ⁸ ohm |
| Supplied Accessory : Model 065A47 Seal ring 0.497 OD x 0.437 ID x 0.025 thk Delrin (3) | | |
| J - Ground Isolated | | [4] |
| T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4 | | |
| Output Bias Voltage | 3.7 to 8.7 VDC | 3.7 to 8.7 VDC |
| W - Water Resistant Cable | | [5] |
| Supplied Accessory : Model 060A12 Clamp nut, 9/16-18-2A thd, 9/16" hex (1) | | |
| WM - Water Resistant Cable | | [5] |
| Supplied Accessory : Model 060A14 Metric clamp nut, M14 x 1.25-6g thd, 14 mm hex, stainless steel (1) | | |

NOTES:
 [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

SUPPLIED ACCESSORIES:
 Model 060A12 Clamp nut, 9/16-18-2A thd, 9/16" hex (1)
 Model 060A14 Metric clamp nut, M14 x 1.25-6g thd, 14 mm hex, stainless steel (1)
 Model 065A37 Seal ring 0.497 OD x 0.437 ID x 0.025 thk Brass (3)

| | | | | |
|-----------------------|----------------------|----------------------|----------------------|--------------------|
| Entered: <i>BLS</i> | Engineer: <i>NJL</i> | Sales: <i>RWM</i> | Approved: <i>RF</i> | Spec Number: |
| Date: <i>10/17/08</i> | Date: <i>10/2/08</i> | Date: <i>10/3/08</i> | Date: <i>10/2/08</i> | 106-2010-80 |



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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