



| Model Number 103B12 | PRESSURE SENSOR, ICP® , ACOUSTIC | | | Revision: B ECN #: 51231 | | | | | | | | | | |
|---|---|---|-----------------------|--|-------------|---------------|------------|---------------|--------------|------------------|------------------|------------------|------------------|-------|
| <p>Performance</p> <p>Measurement Range(± 5 V output) Useful Overrange(± 10 V output) Sensitivity(± 15 %) Maximum Pressure Resolution Resonant Frequency Rise Time Low Frequency Response(- 5 %) Non-Linearity</p> <p>Environmental</p> <p>Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature 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 Element Housing Material Diaphragm Sealing Electrical Connector Weight</p> | <p>ENGLISH</p> <p>10 psi 20 psi 500 mV/psi 250 psi 0.06 mpsi ≥ 13 kHz ≤ 25 μ sec 5 Hz ≤ 2.0 % FS</p> <p>≤ 0.0005 psi/g -100 to 250 °F ≤ 0.2 %/°F 1,000 °F 1,000 g pk</p> <p>Positive 0.1 to 2.0 sec 20 to 30 VDC 2 to 20 mA ≤ 100 Ohm 7 to 13 VDC</p> <p>Ceramic Stainless Steel 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 0.11 oz</p> | <p>SI</p> <p>190.7 dB 196.7 dB 72.5 mV/kPa 1,724 kPa 86.3 dB ≥ 13 kHz ≤ 25 μ sec 5 Hz ≤ 2.0 % FS</p> <p>≤ 0.0035 kPa/(m/s²) -73 to 121 °C ≤ 0.36 %/°C 538 °C 9,807 m/s² pk</p> <p>Positive 0.1 to 2.0 sec 20 to 30 VDC 2 to 20 mA ≤ 100 Ohm 7 to 13 VDC</p> <p>Ceramic Stainless Steel 316L Stainless Steel Welded Hermetic 10-32 Coaxial Jack 3.15 gm</p> | <p>[1]</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>M - Metric Mount Supplied Accessory: Model 060A24 Clamp nut M14 x 1.25-6G thd 11 mm hex 17-4 SS material (1)</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. [2]Zero-based, least-squares, straight line method. [3]See PCB Declaration of Conformance PS023 for details.</p> | | | | | | | | | | | | | | |
| <p>SUPPLIED ACCESSORIES:</p> <p>Model 060A10 Clamp nut 1/2-20-2A thd 7/16" hex (1) Model 065A66 Adhesive Mounting Ring (3) Model 160-0242-00 O-ring .250x.375(2-0100) (3)</p> | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Entered: LK</td> <td>Engineer: RPF</td> <td>Sales: RWM</td> <td>Approved: RPF</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 10/28/2020</td> <td>Date: 10/28/2020</td> <td>Date: 10/28/2020</td> <td>Date: 10/28/2020</td> <td>24856</td> </tr> </table> | | | | | Entered: LK | Engineer: RPF | Sales: RWM | Approved: RPF | Spec Number: | Date: 10/28/2020 | Date: 10/28/2020 | Date: 10/28/2020 | Date: 10/28/2020 | 24856 |
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| <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> Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com 3425 Walden Avenue, Depew, NY 14043</p> | | | | | | | | | | | | | | |