| Model Number<br>208C04  | ICP <sup>®</sup> FORCE SENSOR  |   |  |   | Revision F<br>ECN #: 17909  |
|---|--|---|--|---|---|
| Performance<br>Sensitivity (±15 %)<br>Measurement Range (Compression)<br>Maximum Static Force (Compression)<br>Maximum Static Force (Tension)<br>Broadband Resolution (1 to 10000 Hz)<br>Low Frequency Response (-5 %)<br>Upper Frequency Limit<br>Non-Linearity<br>Environmental<br>Temperature Range<br>Temperature Coefficient of Sensitivity<br>Electrical<br>Discharge Time Constant (at room temp)<br>Excitation Voltage<br>Constant Current Excitation<br>Output Impedance<br>Output Bias Voltage<br>Spectral Noise (10 Hz)<br>Spectral Noise (100 Hz)<br>Spectral Noise (1000 Hz)<br>Output Polarity (Compression)<br>Physical<br>Stiffness<br>Size (Hex x Height x Sensing Surface)<br>Weight<br>Housing Material<br>Sealing<br>Electrical Connector<br>Electrical Connector<br>Electrical Connector<br>Electrical Connector<br>Electrical Connector<br>Electrical Connector<br>Electrical Connector<br>Electrical Connector<br>Mounting Thread<br>Mounting Torque (Recommended) | ENGLISH<br>5 mV/lb<br>1000 lb<br>500 lb<br>6000 lb<br>500 lb<br>0.01 lb-rms<br>0.0003 Hz<br>36 kHz<br>≤1 % FS<br>-65 to +250 °F<br>≥2000 sec<br>20 to 30 VDC<br>2 to 20 mA<br>≤100 Ohm<br>8 to 14 VDC<br>0.000798 lb/\Hz<br>0.000286 lb/\Hz<br>0.000286 lb/\Hz<br>0.000286 lb/\Hz<br>0.000276 lb/\Hz<br>0.000276 lb/\Hz<br>0.000276 lb/\Hz<br>0.000276 lb/\Hz<br>0.625 in x 0.625 in<br>x 0.500 in<br>0.80 oz<br>Stainless Steel<br>Hermetic<br>10-32 Coaxial Jack<br>Side<br>10-32 Female<br>16 to 20 in-lb | SI<br>1124 mV/kN<br>4.448 kN<br>2.224 kN<br>26.69 kN<br>2.224 kN<br>0.04448 N-rms<br>0.0003 Hz<br>36 kHz<br>≤1 % FS<br>-54 to +121 °C<br>≤0.09 %/°C<br>≥2000 sec<br>20 to 30 VDC<br>2 to 20 mA<br>≤100 Ohm<br>8 to 14 VDC<br>0.00356 N/ $Hz$<br>0.00128 N $Hz$<br>0.00128 N $Hz$<br>0.000123 N/ $Hz$<br>Positive<br>1.05 kN/µm<br>15.88 mm x 15.88<br>mm x 12.7 mm<br>22.7 gm<br>Stainless Steel<br>Hermetic<br>10-32 Coaxial Jack<br>Side<br>Not Applicable<br>181 to 226 N-cm | [1]<br>[2]<br>[3]<br>[4]<br>[1]<br>[1]<br>[1]<br>[1] | Optional Versions (Optional versions have identical s<br>for standard model except where noted below. More th<br>N - Negative Output Polarity<br>Output Polarity (Compression) Negat<br>W - Water Resistant Cable<br>Electrical Connector Sealed O<br>Electrical Connection Position Side<br>Notes<br>[1] Typical.<br>[2] Calculated from discharge time constant.<br>[3] Estimated using rigid body dynamics calcula<br>[4] Zero-based, least-squares, straight line meth<br>[5] See PCB Declaration of Conformance PS02<br>Supplied Accessories<br>080A81 Thread Locker (1)<br>081B05 Mounting Stud (10-32 to 10-32) (2)<br>084A03 Impact Cap (1) | specifications and accessories as liste<br>nan one option maybe used.)<br>ive Negative<br>Cable Sealed Cable<br>e Side<br>ttions. |
| All specifications are at room temperature unles<br>n the interest of constant product improvement,<br>notice.<br>CP® is a registered trademark of PCB group, Ir  | , we reserve the right to c  | hange specifications with   | but  | FORCE / TORQUE DIVISION Depend<br>UNITE<br>Phone<br>Fax: 7<br>E-mail  | Spec Number   8982   Walden Avenue   v, NY 14043   ED STATES   : 800-828-8840   16-684-0987   : info@pcb.com   ite: www.pcb.com   |