

| Model Number<br>3711F112G                                                                                                                                                                                                                                                            | DC RESPONSE ACCELEROMETER - TEST |                               |                  | Revision: B<br>ECN #: 55722                                                                                                                                                                                                                                                                                                                                                |             |               |           |               |              |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-----------|---------------|--------------|------------------|
| <b>Performance</b>                                                                                                                                                                                                                                                                   |                                  | <b>ENGLISH</b>                | <b>SI</b>        | <b>OPTIONAL VERSIONS</b><br>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.                                                                                                                                                                                   |             |               |           |               |              |                  |
| Sensitivity(± 3 %)                                                                                                                                                                                                                                                                   | 675 mV/g                         | 68.8 mV/(m/s <sup>2</sup> )   | [1]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Measurement Range                                                                                                                                                                                                                                                                    | ± 2 g pk                         | ± 19.6 m/s <sup>2</sup> pk    |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Frequency Range(± 5 %)                                                                                                                                                                                                                                                               | 0 to 250 Hz                      | 0 to 250 Hz                   |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Frequency Range(± 10 %)                                                                                                                                                                                                                                                              | 0 to 350 Hz                      | 0 to 350 Hz                   |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Resonant Frequency                                                                                                                                                                                                                                                                   | 1.2 kHz                          | 1.2 kHz                       | [2]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Phase Response(10 Hz)                                                                                                                                                                                                                                                                | < 2.5 °                          | < 2.5 °                       |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Non-Linearity(Typical)                                                                                                                                                                                                                                                               | 0.3 %                            | 0.3 %                         | [3]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Non-Linearity(Max)                                                                                                                                                                                                                                                                   | 1 %                              | 1 %                           | [3]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Broadband Resolution(0.5 to 100 Hz)                                                                                                                                                                                                                                                  | 0.06 mg rms                      | 0.0006 m/s <sup>2</sup> rms   | [2]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Transverse Sensitivity(Typical)                                                                                                                                                                                                                                                      | 1 %                              | 1 %                           |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Transverse Sensitivity(Max)                                                                                                                                                                                                                                                          | 3 %                              | 3 %                           |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| <b>Environmental</b>                                                                                                                                                                                                                                                                 |                                  |                               |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Overload Limit(Shock)                                                                                                                                                                                                                                                                | ± 5,000 g pk                     | ± 49,050 m/s <sup>2</sup> pk  |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Temperature Range(Operating)                                                                                                                                                                                                                                                         | -65 to +250 °F                   | -54.0 to +121 °C              |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Temperature Range(Storage)                                                                                                                                                                                                                                                           | -65 to +250 °F                   | -54.0 to +121 °C              |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Temperature Coefficient of Sensitivity                                                                                                                                                                                                                                               | ± 1 %                            | ± 1 %                         | [2][4]           |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Zero g Offset Temperature Coefficient                                                                                                                                                                                                                                                | ± 1 % FSO                        | ± 1 % FSO                     | [4][5][2]        |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Base Strain Sensitivity                                                                                                                                                                                                                                                              | 0.001 g/με                       | 0.01 (m/s <sup>2</sup> )/με   | [2]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Magnetic Sensitivity                                                                                                                                                                                                                                                                 | 40 μg/gauss                      | 3.9 (m/s <sup>2</sup> )/Tesla | [2]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| <b>Electrical</b>                                                                                                                                                                                                                                                                    |                                  |                               |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Excitation Voltage                                                                                                                                                                                                                                                                   | 5 to 32 VDC                      | 5 to 32 VDC                   |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Current Consumption                                                                                                                                                                                                                                                                  | ≤ 5 mA                           | ≤ 5 mA                        |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Output Impedance                                                                                                                                                                                                                                                                     | ≤ 120 Ohm                        | ≤ 120 Ohm                     |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Offset Voltage(0 g)                                                                                                                                                                                                                                                                  | +/- 20 mVDC                      | +/- 20 mVDC                   | [6]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Spectral Noise(1 Hz)                                                                                                                                                                                                                                                                 | 6 μg/√Hz                         | 59 (μm/s <sup>2</sup> )/√Hz   | [2]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Spectral Noise(10 Hz)                                                                                                                                                                                                                                                                | 6 μg/√Hz                         | 59 (μm/s <sup>2</sup> )/√Hz   | [2]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Spectral Noise(100 Hz)                                                                                                                                                                                                                                                               | 6 μg/√Hz                         | 59 (μm/s <sup>2</sup> )/√Hz   | [2]              |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Electrical Isolation(Case)                                                                                                                                                                                                                                                           | > 10 <sup>8</sup> Ohm            | > 10 <sup>8</sup> Ohm         |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| <b>Physical</b>                                                                                                                                                                                                                                                                      |                                  |                               |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Housing Material                                                                                                                                                                                                                                                                     | Titanium                         | Titanium                      |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Sealing                                                                                                                                                                                                                                                                              | Hermetic                         | Hermetic                      |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Size (Height x Length x Width)                                                                                                                                                                                                                                                       | 0.45 in x 0.85 in x 0.85 in      | 11.4 mm x 21.6 mm x 21.6 mm   |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Weight                                                                                                                                                                                                                                                                               | 0.58 oz                          | 16.3 gm                       |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Electrical Connector                                                                                                                                                                                                                                                                 | 4-Pin                            | 4-Pin                         |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Electrical Connection Position                                                                                                                                                                                                                                                       | Side                             | Side                          |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
| Mounting                                                                                                                                                                                                                                                                             | Through Hole                     | Through Hole                  |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |
|  <p>All specifications are at room temperature unless otherwise specified.<br/>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> |                                  |                               |                  | <b>NOTES:</b><br>[1] Measured at 5 Hz, 0.5 grms.<br>[2] Typical.<br>[3] Zero-based, least-squares, straight line method.<br>[4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)<br>[5] FSO= Full Scale Output over the Measurement Range<br>[6] Offset tolerance is based on 10 ft of 010 test cable.<br>[7] See PCB Declaration of Conformance PS027 for details. |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                                                      |                                  |                               |                  | <b>SUPPLIED ACCESSORIES:</b><br>Model 080A152 Easy Mount Clip (1)<br>Model 081A113 Mounting screw assembly (2)<br>Model ACS-85 Phase and Magnitude calibration from 0.5 Hz to 5% pt Linear scale (1)<br>Model M081A113 Mounting screw assembly (2)                                                                                                                         |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                                                      |                                  |                               |                  | <table border="1"> <tr> <td>Entered: ND</td><td>Engineer: NJF</td><td>Sales: JM</td><td>Approved: NJF</td><td>Spec Number:</td></tr> <tr> <td>Date: 05/07/2025</td><td>Date: 05/07/2025</td><td>Date: 05/07/2025</td><td>Date: 05/07/2025</td><td>70517</td></tr> </table>                                                                                                 | Entered: ND | Engineer: NJF | Sales: JM | Approved: NJF | Spec Number: | Date: 05/07/2025 |
| Entered: ND                                                                                                                                                                                                                                                                          | Engineer: NJF                    | Sales: JM                     | Approved: NJF    | Spec Number:                                                                                                                                                                                                                                                                                                                                                               |             |               |           |               |              |                  |
| Date: 05/07/2025                                                                                                                                                                                                                                                                     | Date: 05/07/2025                 | Date: 05/07/2025              | Date: 05/07/2025 | 70517                                                                                                                                                                                                                                                                                                                                                                      |             |               |           |               |              |                  |
|  <b>PCB PIEZOTRONICS</b><br>AN AMPHENOL COMPANY                                                                                                                                                 |                                  |                               |                  | Phone: 716-684-0001<br>Fax: 716-684-0987<br>E-Mail: info@pcb.com                                                                                                                                                                                                                                                                                                           |             |               |           |               |              |                  |
| 3425 Walden Avenue, Depew, NY 14043                                                                                                                                                                                                                                                  |                                  |                               |                  |                                                                                                                                                                                                                                                                                                                                                                            |             |               |           |               |              |                  |

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| <b>Model Number</b><br><b>3711F1110G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>DC RESPONSE ACCELEROMETER</b>                                                                                                           |                                                                                                                                                                                           |                                                          | Revision: A<br>ECN #: 53791                                                                                                                                                              |
| <b>Performance</b><br>Sensitivity(± 3 %)<br>Measurement Range<br>Frequency Range(± 5 %)<br>Frequency Range(± 10 %)<br>Resonant Frequency<br>Phase Response(100 Hz)<br>Non-Linearity(Typical)<br>Non-Linearity(Max)<br>Broadband Resolution(0.5 to 100 Hz)<br>Transverse Sensitivity(Typical)<br>Transverse Sensitivity(Max)                                                                                                                                                                                                                                                                                               | <b>ENGLISH</b><br>135 mV/g<br>± 10 g pk<br>0 to 1,000 Hz<br>0 to 1,500 Hz<br>3.2 kHz<br>< 10 °<br>0.3 %<br>1 %<br>0.3 mg rms<br>1 %<br>3 % | <b>SI</b><br>13.8 mV/(m/s <sup>2</sup> )<br>± 98.1 m/s <sup>2</sup> pk<br>0 to 1,000 Hz<br>0 to 1,500 Hz<br>3.2 kHz<br>< 10 °<br>0.3 %<br>1 %<br>0.003 m/s <sup>2</sup> rms<br>1 %<br>3 % | [1]<br><br><br><br><br><br>[3]<br>[3]<br><br><br><br>[2] | <b>OPTIONAL VERSIONS</b><br>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. |
| <b>Environmental</b><br>Overload Limit(Shock)<br>Temperature Range(Operating)<br>Temperature Range(Storage)<br>Temperature Coefficient of Sensitivity<br>Zero g Offset Temperature Coefficient<br>Base Strain Sensitivity<br>Magnetic Sensitivity                                                                                                                                                                                                                                                                                                                                                                         | ± 5,000 g pk<br>-65 to +250 °F<br>-65 to +250 °F<br>± 1 %<br>± 1 % FSO<br>0.001 g/µε<br>40 µg/gauss                                        | ± 49,050 m/s <sup>2</sup> pk<br>-54.0 to +121 °C<br>-54.0 to +121 °C<br>± 1 %<br>± 1 % FSO<br>0.01 (m/s <sup>2</sup> )/µε<br>3.9 (m/s <sup>2</sup> )/Tesla                                | <br><br><br><br>[2][4]<br>[4][5][2]<br>[2]<br>[2]        |                                                                                                                                                                                          |
| <b>Electrical</b><br>Excitation Voltage<br>Current Consumption<br>Output Impedance<br>Offset Voltage(0 g)<br>Spectral Noise(1 Hz)<br>Spectral Noise(10 Hz)<br>Spectral Noise(100 Hz)<br>Electrical Isolation(Case)                                                                                                                                                                                                                                                                                                                                                                                                        | 5 to 32 VDC<br>≤ 5 mA<br>≤ 120 Ohm<br>± 20 mVDC<br>30 µg/√Hz<br>30 µg/√Hz<br>30 µg/√Hz<br>> 10 <sup>8</sup> Ohm                            | 5 to 32 VDC<br>≤ 5 mA<br>≤ 120 Ohm<br>± 20 mVDC<br>294 (µm/s <sup>2</sup> )/√Hz<br>294 (µm/s <sup>2</sup> )/√Hz<br>294 (µm/s <sup>2</sup> )/√Hz<br>> 10 <sup>8</sup> Ohm                  | <br><br><br><br>[6]<br>[2]<br>[2]<br>[2]                 |                                                                                                                                                                                          |
| <b>Physical</b><br>Housing Material<br>Sealing<br>Size (Height x Length x Width)<br><br>Weight<br>Electrical Connector<br>Electrical Connection Position<br>Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Titanium<br>Hermetic<br>0.45 in x 0.85 in x 0.85 in<br><br>0.58 oz<br>4-Pin<br>Side<br>Through Hole                                        | Titanium<br>Hermetic<br>11.4 mm x 21.6 mm x 21.6 mm<br><br>16.3 gm<br>4-Pin<br>Side<br>Through Hole                                                                                       |                                                          |                                                                                                                                                                                          |
| <div> <div>    </div> <div> [7] </div> </div>                                                                                                                                                                                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                                                           |                                                          |                                                                                                                                                                                          |
| All specifications are at room temperature unless otherwise specified.<br>In the interest of constant product improvement, we reserve the right to change specifications without notice.                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |                                                                                                                                                                                           |                                                          |                                                                                                                                                                                          |
| <b>NOTES:</b><br>[1]Measured at 100 Hz, 1 grms.<br>[2]Typical.<br>[3]Zero-based, least-squares, straight line method.<br>[4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)<br>[5]FSO= Full Scale Output over the Measurement Range<br>[6]Offset tolerance is based on 10 ft of 010 test cable.<br>[7]See PCB Declaration of Conformance PS027 for details.<br><br><b>SUPPLIED ACCESSORIES:</b><br>Model 080A152 Easy Mount Clip (1)<br>Model 081A113 Mounting screw assembly (2)<br>Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range<br>Model M081A113 Mounting screw assembly (2) |                                                                                                                                            |                                                                                                                                                                                           |                                                          |                                                                                                                                                                                          |
| Entered: ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Engineer: NJF                                                                                                                              | Sales: JM                                                                                                                                                                                 | Approved: BAM                                            | Spec Number:                                                                                                                                                                             |
| Date: 05/10/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date: 05/10/2023                                                                                                                           | Date: 05/10/2023                                                                                                                                                                          | Date: 05/10/2023                                         | 70518                                                                                                                                                                                    |
| <div>  <b>PCB PIEZOTRONICS</b><br/> AN AMPHENOL COMPANY </div> <div> Phone: 716-684-0001<br/> Fax: 716-684-0987<br/> E-Mail: info@pcb.com </div> <div> 3425 Walden Avenue, Depew, NY 14043 </div>                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                                                           |                                                          |                                                                                                                                                                                          |

| Model Number<br>3711F1150G                                                                                                                                                                           |  | DC RESPONSE ACCELEROMETER                                                                                                                                                                                                                                                                                                                                            |                                | Revision: A<br>ECN #: 53791                                                                                                                                  |              |
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| <b>Performance</b>                                                                                                                                                                                   |  | <b>ENGLISH</b>                                                                                                                                                                                                                                                                                                                                                       | <b>SI</b>                      | <b>OPTIONAL VERSIONS</b>                                                                                                                                     |              |
| Sensitivity(± 3 %)                                                                                                                                                                                   |  | 27 mV/g                                                                                                                                                                                                                                                                                                                                                              | 2.8 mV/(m/s <sup>2</sup> )     | 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                                                                                                                                                                                    |  | ± 50 g pk                                                                                                                                                                                                                                                                                                                                                            | ± 490 m/s <sup>2</sup> pk      |                                                                                                                                                              |              |
| Frequency Range(± 5 %)                                                                                                                                                                               |  | 0 to 1,500 Hz                                                                                                                                                                                                                                                                                                                                                        | 0 to 1,500 Hz                  |                                                                                                                                                              |              |
| Frequency Range(± 10 %)                                                                                                                                                                              |  | 0 to 2,000 Hz                                                                                                                                                                                                                                                                                                                                                        | 0 to 2,000 Hz                  |                                                                                                                                                              |              |
| Resonant Frequency                                                                                                                                                                                   |  | 6.5 kHz                                                                                                                                                                                                                                                                                                                                                              | 6.5 kHz                        |                                                                                                                                                              |              |
| Phase Response(100 Hz)                                                                                                                                                                               |  | ≤ 10 °                                                                                                                                                                                                                                                                                                                                                               | ≤ 10 °                         |                                                                                                                                                              |              |
| Non-Linearity(Typical)                                                                                                                                                                               |  | 0.3 %                                                                                                                                                                                                                                                                                                                                                                | 0.3 %                          |                                                                                                                                                              |              |
| Non-Linearity(Max)                                                                                                                                                                                   |  | 1 %                                                                                                                                                                                                                                                                                                                                                                  | 1 %                            |                                                                                                                                                              |              |
| Broadband Resolution(0.5 to 100 Hz)                                                                                                                                                                  |  | 1.5 mg rms                                                                                                                                                                                                                                                                                                                                                           | 0.015 m/s <sup>2</sup> rms     |                                                                                                                                                              |              |
| Transverse Sensitivity(Typical)                                                                                                                                                                      |  | 1 %                                                                                                                                                                                                                                                                                                                                                                  | 1 %                            |                                                                                                                                                              |              |
| Transverse Sensitivity(Max)                                                                                                                                                                          |  | 3 %                                                                                                                                                                                                                                                                                                                                                                  | 3 %                            |                                                                                                                                                              |              |
| <b>Environmental</b>                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                                                                              |              |
| Overload Limit(Shock)                                                                                                                                                                                |  | ± 5,000 g pk                                                                                                                                                                                                                                                                                                                                                         | ± 49,050 m/s <sup>2</sup> pk   |                                                                                                                                                              |              |
| Temperature Range(Operating)                                                                                                                                                                         |  | -65 to +250 °F                                                                                                                                                                                                                                                                                                                                                       | -54.0 to +121 °C               |                                                                                                                                                              |              |
| Temperature Range(Storage)                                                                                                                                                                           |  | -65 to +250 °F                                                                                                                                                                                                                                                                                                                                                       | -54.0 to +121 °C               |                                                                                                                                                              |              |
| Temperature Coefficient of Sensitivity                                                                                                                                                               |  | ± 1 %                                                                                                                                                                                                                                                                                                                                                                | ± 1 %                          |                                                                                                                                                              |              |
| Zero g Offset Temperature Coefficient                                                                                                                                                                |  | ± 1 % FSO                                                                                                                                                                                                                                                                                                                                                            | ± 1 % FSO                      |                                                                                                                                                              |              |
| Base Strain Sensitivity                                                                                                                                                                              |  | 0.001 g/με                                                                                                                                                                                                                                                                                                                                                           | 0.01 (m/s <sup>2</sup> )/με    |                                                                                                                                                              |              |
| Magnetic Sensitivity                                                                                                                                                                                 |  | 40 μg/gauss                                                                                                                                                                                                                                                                                                                                                          | 3.9 (m/s <sup>2</sup> )/Tesla  |                                                                                                                                                              |              |
| <b>Electrical</b>                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                                                                              |              |
| Excitation Voltage                                                                                                                                                                                   |  | 5 to 32 VDC                                                                                                                                                                                                                                                                                                                                                          | 5 to 32 VDC                    |                                                                                                                                                              |              |
| Current Consumption                                                                                                                                                                                  |  | ≤ 5 mA                                                                                                                                                                                                                                                                                                                                                               | ≤ 5 mA                         |                                                                                                                                                              |              |
| Output Impedance                                                                                                                                                                                     |  | ≤ 120 Ohm                                                                                                                                                                                                                                                                                                                                                            | ≤ 120 Ohm                      |                                                                                                                                                              |              |
| Offset Voltage(0 g)                                                                                                                                                                                  |  | +/- 20 mVDC                                                                                                                                                                                                                                                                                                                                                          | +/- 20 mVDC                    |                                                                                                                                                              |              |
| Spectral Noise(1 Hz)                                                                                                                                                                                 |  | 150 μg/√Hz                                                                                                                                                                                                                                                                                                                                                           | 1,472 (μm/s <sup>2</sup> )/√Hz |                                                                                                                                                              |              |
| Spectral Noise(10 Hz)                                                                                                                                                                                |  | 150 μg/√Hz                                                                                                                                                                                                                                                                                                                                                           | 1,472 (μm/s <sup>2</sup> )/√Hz |                                                                                                                                                              |              |
| Spectral Noise(100 Hz)                                                                                                                                                                               |  | 150 μg/√Hz                                                                                                                                                                                                                                                                                                                                                           | 1,472 (μm/s <sup>2</sup> )/√Hz |                                                                                                                                                              |              |
| Electrical Isolation(Case)                                                                                                                                                                           |  | > 10 <sup>8</sup> Ohm                                                                                                                                                                                                                                                                                                                                                | > 10 <sup>8</sup> Ohm          |                                                                                                                                                              |              |
| <b>Physical</b>                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                                                                              |              |
| Housing Material                                                                                                                                                                                     |  | Titanium                                                                                                                                                                                                                                                                                                                                                             | Titanium                       |                                                                                                                                                              |              |
| Sealing                                                                                                                                                                                              |  | Hermetic                                                                                                                                                                                                                                                                                                                                                             | Hermetic                       |                                                                                                                                                              |              |
| Size (Height x Length x Width)                                                                                                                                                                       |  | 0.45 in x 0.85 in x 0.85 in                                                                                                                                                                                                                                                                                                                                          | 11.4 mm x 21.6 mm x 21.6 mm    |                                                                                                                                                              |              |
| Weight                                                                                                                                                                                               |  | 0.58 oz                                                                                                                                                                                                                                                                                                                                                              | 16.3 gm                        |                                                                                                                                                              |              |
| Electrical Connector                                                                                                                                                                                 |  | 4-Pin                                                                                                                                                                                                                                                                                                                                                                | 4-Pin                          |                                                                                                                                                              |              |
| Electrical Connection Position                                                                                                                                                                       |  | Side                                                                                                                                                                                                                                                                                                                                                                 | Side                           |                                                                                                                                                              |              |
| Mounting                                                                                                                                                                                             |  | Through Hole                                                                                                                                                                                                                                                                                                                                                         | Through Hole                   |                                                                                                                                                              |              |
| <div>CE UK CA</div>                                                                                                                                                                                  |  | <b>NOTES:</b><br>[1]Measured at 100 Hz, 10 grms.<br>[2]Typical.<br>[3]Zero-based, least-squares, straight line method.<br>[4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)<br>[5]FSO= Full Scale Output over the Measurement Range<br>[6]Offset tolerance is based on 10 ft of 010 test cable.<br>[7]See PCB Declaration of Conformance PS027 for details. |                                |                                                                                                                                                              |              |
|                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                                                                              |              |
|                                                                                                                                                                                                      |  | <b>SUPPLIED ACCESSORIES:</b><br>Model 080A152 Easy Mount Clip (1)<br>Model 081A113 Mounting screw assembly (2)<br>Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range<br>Model M081A113 Mounting screw assembly (2)                                                                                                                       |                                |                                                                                                                                                              |              |
|                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                                                                              |              |
| Entered: ND                                                                                                                                                                                          |  | Engineer: NJF                                                                                                                                                                                                                                                                                                                                                        | Sales: JM                      | Approved: BAM                                                                                                                                                | Spec Number: |
| Date: 05/10/2023                                                                                                                                                                                     |  | Date: 05/10/2023                                                                                                                                                                                                                                                                                                                                                     | Date: 05/10/2023               | Date: 05/10/2023                                                                                                                                             | 70520        |
| <div>All specifications are at room temperature unless otherwise specified.<br/>In the interest of constant product improvement, we reserve the right to change specifications without notice.</div> |  | <div><div> <b>PCB PIEZOTRONICS</b><br/>AN AMPHENOL COMPANY</div><div>Phone: 716-684-0001<br/>Fax: 716-684-0987<br/>E-Mail: info@pcb.com</div></div>                                                                                                                             |                                |                                                                                                                                                              |              |
|                                                                                                                                                                                                      |  | 3425 Walden Avenue, Depew, NY 14043                                                                                                                                                                                                                                                                                                                                  |                                |                                                                                                                                                              |              |

|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                            |                                                                                                                                                                                         |                                                                         |                                                                                                                                                                                                                                                                                                                                                                      |             |               |           |               |              |                  |                  |                  |                  |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-----------|---------------|--------------|------------------|------------------|------------------|------------------|-------|
| <b>Model Number</b><br><b>3711F11100G</b>                                                                                                                                                                                                                                                                                   | <b>DC RESPONSE ACCELEROMETER</b>                                                                                                           |                                                                                                                                                                                         |                                                                         | Revision: A<br>ECN #: 53791                                                                                                                                                                                                                                                                                                                                          |             |               |           |               |              |                  |                  |                  |                  |       |
| <b>Performance</b><br>Sensitivity(± 3 %)<br>Measurement Range<br>Frequency Range(± 5 %)<br>Frequency Range(± 10 %)<br>Resonant Frequency<br>Phase Response(100 Hz)<br>Non-Linearity(Typical)<br>Non-Linearity(Max)<br>Broadband Resolution(0.5 to 100 Hz)<br>Transverse Sensitivity(Typical)<br>Transverse Sensitivity(Max) | <b>ENGLISH</b><br>13.5 mV/g<br>± 100 g pk<br>0 to 1,500 Hz<br>0 to 2,500 Hz<br>8.5 kHz<br>< 10 °<br>0.3 %<br>1 %<br>3 mg rms<br>1 %<br>3 % | <b>SI</b><br>1.38 mV/(m/s <sup>2</sup> )<br>± 981 m/s <sup>2</sup> pk<br>0 to 1,500 Hz<br>0 to 2,500 Hz<br>8.5 kHz<br>< 10 °<br>0.3 %<br>1 %<br>0.03 m/s <sup>2</sup> rms<br>1 %<br>3 % | [1]<br><br><br><br><br><br>[2]<br><br><br><br><br><br>[3]<br>[3]<br>[2] | <b>OPTIONAL VERSIONS</b><br>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.                                                                                                                                                                             |             |               |           |               |              |                  |                  |                  |                  |       |
| <b>Environmental</b><br>Overload Limit(Shock)<br>Temperature Range(Operating)<br>Temperature Range(Storage)<br>Temperature Coefficient of Sensitivity<br>Zero g Offset Temperature Coefficient<br>Base Strain Sensitivity<br>Magnetic Sensitivity                                                                           | ± 5,000 g pk<br>-65 to +250 °F<br>-65 to +250 °F<br>± 1 %<br>± 1 % FSO<br>0.001 g/µε<br>40 µg/gauss                                        | ± 49,050 m/s <sup>2</sup> pk<br>-54.0 to +121 °C<br>-54.0 to +121 °C<br>± 1 %<br>± 1 % FSO<br>0.01 (m/s <sup>2</sup> )/µε<br>3.9 (m/s <sup>2</sup> )/Tesla                              | [2][4]<br>[4][5][2]<br>[2]<br>[2]                                       |                                                                                                                                                                                                                                                                                                                                                                      |             |               |           |               |              |                  |                  |                  |                  |       |
| <b>Electrical</b><br>Excitation Voltage<br>Current Consumption<br>Output Impedance<br>Offset Voltage(0 g)<br>Spectral Noise(1 Hz)<br>Spectral Noise(10 Hz)<br>Spectral Noise(100 Hz)<br>Electrical Isolation(Case)                                                                                                          | 5 to 32 VDC<br>≤ 5 mA<br>≤ 120 Ohm<br>+/- 20 mVDC<br>300 µg/√Hz<br>300 µg/√Hz<br>300 µg/√Hz<br>> 10 <sup>8</sup> Ohm                       | 5 to 32 VDC<br>≤ 5 mA<br>≤ 120 Ohm<br>+/- 20 mVDC<br>2,943 (µm/s <sup>2</sup> )/√Hz<br>2,943 (µm/s <sup>2</sup> )/√Hz<br>2,943 (µm/s <sup>2</sup> )/√Hz<br>> 10 <sup>8</sup> Ohm        | [6]<br><br><br><br>[2]<br>[2]<br>[2]                                    |                                                                                                                                                                                                                                                                                                                                                                      |             |               |           |               |              |                  |                  |                  |                  |       |
| <b>Physical</b><br>Housing Material<br>Sealing<br>Size (Height x Length x Width)<br><br>Weight<br>Electrical Connector<br>Electrical Connection Position<br>Mounting                                                                                                                                                        | Titanium<br>Hermetic<br>0.45 in x 0.85 in x 0.85 in<br><br>0.58 oz<br>4-Pin<br>Side<br>Through Hole                                        | Titanium<br>Hermetic<br>11.4 mm x 21.6 mm x 21.6 mm<br><br>16.3 gm<br>4-Pin<br>Side<br>Through Hole                                                                                     |                                                                         | <b>NOTES:</b><br>[1]Measured at 100 Hz, 10 grms.<br>[2]Typical.<br>[3]Zero-based, least-squares, straight line method.<br>[4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)<br>[5]FSO= Full Scale Output over the Measurement Range<br>[6]Offset tolerance is based on 10 ft of 010 test cable.<br>[7]See PCB Declaration of Conformance PS027 for details. |             |               |           |               |              |                  |                  |                  |                  |       |
| <b>SUPPLIED ACCESSORIES:</b><br>Model 080A152 Easy Mount Clip (1)<br>Model 081A113 Mounting screw assembly (2)<br>Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range<br>Model M081A113 Mounting screw assembly (2)                                                                              |                                                                                                                                            |                                                                                                                                                                                         |                                                                         |                                                                                                                                                                                                                                                                                                                                                                      |             |               |           |               |              |                  |                  |                  |                  |       |
| <table> <tr> <td>Entered: ND</td><td>Engineer: NJF</td><td>Sales: JM</td><td>Approved: BAM</td><td>Spec Number:</td></tr> <tr> <td>Date: 05/12/2023</td><td>Date: 05/12/2023</td><td>Date: 05/12/2023</td><td>Date: 05/12/2023</td><td>70521</td></tr> </table>                                                             |                                                                                                                                            |                                                                                                                                                                                         |                                                                         |                                                                                                                                                                                                                                                                                                                                                                      | Entered: ND | Engineer: NJF | Sales: JM | Approved: BAM | Spec Number: | Date: 05/12/2023 | Date: 05/12/2023 | Date: 05/12/2023 | Date: 05/12/2023 | 70521 |
| Entered: ND                                                                                                                                                                                                                                                                                                                 | Engineer: NJF                                                                                                                              | Sales: JM                                                                                                                                                                               | Approved: BAM                                                           | Spec Number:                                                                                                                                                                                                                                                                                                                                                         |             |               |           |               |              |                  |                  |                  |                  |       |
| Date: 05/12/2023                                                                                                                                                                                                                                                                                                            | Date: 05/12/2023                                                                                                                           | Date: 05/12/2023                                                                                                                                                                        | Date: 05/12/2023                                                        | 70521                                                                                                                                                                                                                                                                                                                                                                |             |               |           |               |              |                  |                  |                  |                  |       |
| <div> <div>  </div> <div> <b>PCB PIEZOTRONICS</b><br/> AN AMPHENOL COMPANY </div> </div> <div> Phone: 716-684-0001<br/> Fax: 716-684-0987<br/> E-Mail: info@pcb.com </div> <div> 3425 Walden Avenue, Depew, NY 14043 </div>              |                                                                                                                                            |                                                                                                                                                                                         |                                                                         |                                                                                                                                                                                                                                                                                                                                                                      |             |               |           |               |              |                  |                  |                  |                  |       |

|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model Number</b><br><b>3711F11200G</b>                                                                                                                                                                                                                                                                                   | <b>DC RESPONSE ACCELEROMETER</b>                                                                                                            |                                                                                                                                                                                           |                                                                         | Revision: A<br>ECN #: 53791                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Performance</b><br>Sensitivity(± 3 %)<br>Measurement Range<br>Frequency Range(± 5 %)<br>Frequency Range(± 10 %)<br>Resonant Frequency<br>Phase Response(100 Hz)<br>Non-Linearity(Typical)<br>Non-Linearity(Max)<br>Broadband Resolution(0.5 to 100 Hz)<br>Transverse Sensitivity(Typical)<br>Transverse Sensitivity(Max) | <b>ENGLISH</b><br>6.75 mV/g<br>± 200 g pk<br>0 to 1,500 Hz<br>0 to 2,500 Hz<br>11.8 kHz<br>< 10 °<br>0.3 %<br>1 %<br>6 mg rms<br>1 %<br>3 % | <b>SI</b><br>0.69 mV/(m/s <sup>2</sup> )<br>± 1,960 m/s <sup>2</sup> pk<br>0 to 1,500 Hz<br>0 to 2,500 Hz<br>11.8 kHz<br>< 10 °<br>0.3 %<br>1 %<br>.06 m/s <sup>2</sup> rms<br>1 %<br>3 % | [1]<br><br><br><br><br><br>[2]<br><br><br><br><br><br>[3]<br>[3]<br>[2] | <div> <b>OPTIONAL VERSIONS</b><br/> Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. </div>                                                                                                                                                                                                  |
| <b>Environmental</b><br>Overload Limit(Shock)<br>Temperature Range(Operating)<br>Temperature Range(Storage)<br>Temperature Coefficient of Sensitivity<br>Zero g Offset Temperature Coefficient<br>Base Strain Sensitivity<br>Magnetic Sensitivity                                                                           | ± 5,000 g pk<br>-65 to +250 °F<br>-65 to +250 °F<br>± 1 %<br>± 1 % FSO<br>0.001 g/µε<br>40 µg/gauss                                         | ± 49,050 m/s <sup>2</sup> pk<br>-54.0 to +121 °C<br>-54.0 to +121 °C<br>± 1 %<br>± 1 % FSO<br>0.01 (m/s <sup>2</sup> )/µε<br>3.9 (m/s <sup>2</sup> )/Tesla                                | [4][2]<br>[4][5][2]<br>[2]<br>[2]                                       |                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Electrical</b><br>Excitation Voltage<br>Current Consumption<br>Output Impedance<br>Offset Voltage(0 g)<br>Spectral Noise(1 Hz)<br>Spectral Noise(10 Hz)<br>Spectral Noise(100 Hz)<br>Electrical Isolation(Case)                                                                                                          | 5 to 32 VDC<br>≤ 5 mA<br>≤ 120 Ohm<br>± 20 mVDC<br>600 µg/√Hz<br>600 µg/√Hz<br>600 µg/√Hz<br>> 10 <sup>8</sup> Ohm                          | 5 to 32 VDC<br>≤ 5 mA<br>≤ 120 Ohm<br>± 20 mVDC<br>5,886 (µm/s <sup>2</sup> )/√Hz<br>5,886 (µm/s <sup>2</sup> )/√Hz<br>5,886 (µm/s <sup>2</sup> )/√Hz<br>> 10 <sup>8</sup> Ohm            | [6]<br><br><br><br>[2]<br>[2]<br>[2]                                    |                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Physical</b><br>Housing Material<br>Sealing<br>Size (Height x Length x Width)<br><br>Weight<br>Electrical Connector<br>Electrical Connection Position<br>Mounting                                                                                                                                                        | Titanium<br>Hermetic<br>0.45 in x 0.85 in x 0.85 in<br><br>0.58 oz<br>4-Pin<br>Side<br>Through Hole                                         | Titanium<br>Hermetic<br>11.4 mm x 21.6 mm x 21.6 mm<br><br>16.3 gm<br>4-Pin<br>Side<br>Through Hole                                                                                       |                                                                         | <div> <b>NOTES:</b><br/> [1]Measured at 100 Hz, 10 grms.<br/> [2]Typical.<br/> [3]Zero-based, least-squares, straight line method.<br/> [4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)<br/> [5]FSO = Full Scale Output over the Measurement Range (4VDC).<br/> [6]Offset tolerance is based on 10 ft of 010 test cable.<br/> [7]See PCB Declaration of Conformance PS027 for details. </div> |
| <div>  </div>                                                                                                                                                                                                                            |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
| All specifications are at room temperature unless otherwise specified.<br>In the interest of constant product improvement, we reserve the right to change specifications without notice.                                                                                                                                    |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
| <div> <b>SUPPLIED ACCESSORIES:</b><br/> Model 080A152 Easy Mount Clip (1)<br/> Model 081A113 Mounting screw assembly (2)<br/> Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range<br/> Model M081A113 Mounting screw assembly (2) </div>                                                         |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |
| Entered: ND                                                                                                                                                                                                                                                                                                                 | Engineer: NJF                                                                                                                               | Sales: JM                                                                                                                                                                                 | Approved: BAM                                                           | Spec Number:                                                                                                                                                                                                                                                                                                                                                                                             |
| Date: 05/12/2023                                                                                                                                                                                                                                                                                                            | Date: 05/12/2023                                                                                                                            | Date: 05/12/2023                                                                                                                                                                          | Date: 05/12/2023                                                        | 70522                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>  <div> <b>Phone: 716-684-0001</b><br/> <b>Fax: 716-684-0987</b><br/> <b>E-Mail: info@pcb.com</b> </div> </div> <div> 3425 Walden Avenue, Depew, NY 14043 </div>                                                                  |                                                                                                                                             |                                                                                                                                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |