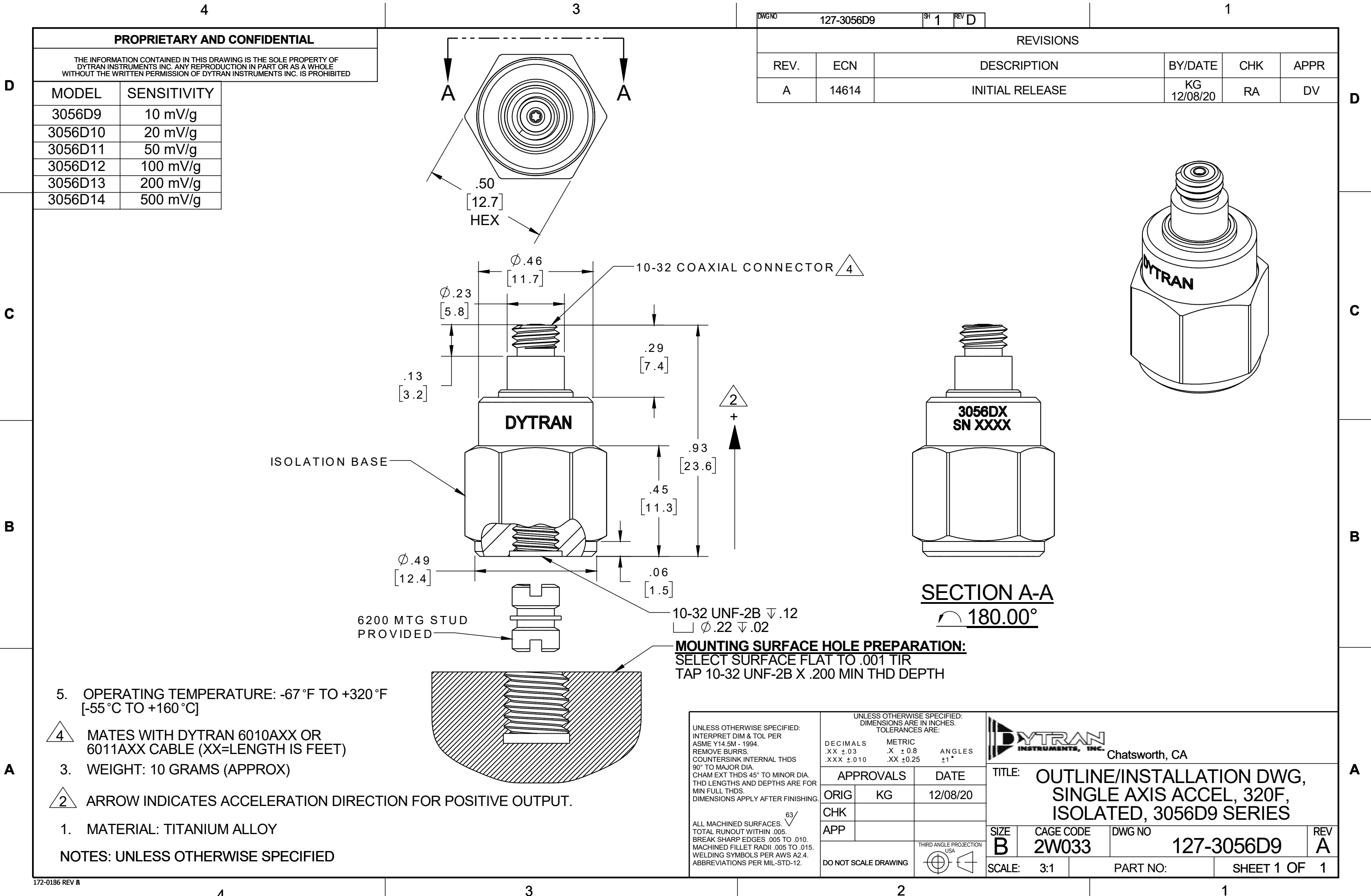
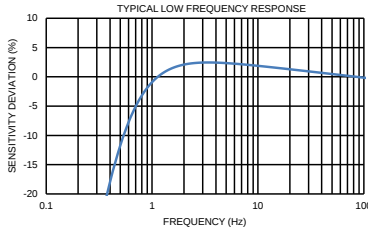
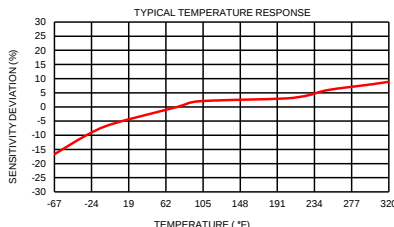
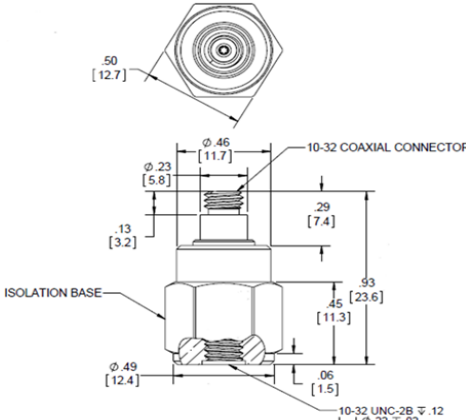




| Model Number<br>3056D11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | PERFORMANCE SPECIFICATIONS                                                                                                                                                |                     |                     |                            | DOC NO<br>PS3056D11  |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|----------------------------|----------------------|-------|---------------------|--------------------|-------------------------------|---------------------|---------------------|--------|----|------------|------------|-------------|---------|----|------------|------------|-------------|---------|-----|------------|------------|-------------|---------|-----|------------|------------|-------------|---------|-----|------------|------------|-------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | IEPE ACCELEROMETER                                                                                                                                                        |                     |                     | REV A, ECN 14614, 12/01/20 |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    | <ul style="list-style-type: none"><li>• -67 °F TO +320°F OPERATION</li><li>• BASE ISOLATED</li><li>• IDEAL LOW FREQUENCY RESPONSE</li><li>• HERMETICALLY SEALED</li></ul> |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | ENGLISH                                                                                                                                                                   |                     | SI                  |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| <b>PHYSICAL</b><br>Weight<br>Connector<br>Mounting Provision<br>Material, Housing/Connector<br>Sensing Element<br>Element Style                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 0.35                                                                                                                                                                      |                     | oz                  | 10                         | grams                |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 10-32                                                                                                                                                                     |                     |                     | 10-32                      |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 10-32 Tapped hole                                                                                                                                                         |                     |                     | 10-32 Tapped hole          |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | Titanium                                                                                                                                                                  |                     |                     | Titanium                   |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | Ceramic                                                                                                                                                                   |                     |                     | Ceramic                    |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | Planar Shear                                                                                                                                                              |                     |                     | Planar Shear               |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| <b>PERFORMANCE</b><br>Sensitivity, ± 5% [2]<br>Range for ± 5 Volts Output<br>Frequency Response, ± 5%<br>Frequency Response, ± 10%<br>Resonant Frequency<br>Broad Band Resolution<br>Linearity [3]<br>Maximum Transverse sensitivity<br>Strain Sensitivity @ 250µε                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    | 50                                                                                                                                                                        |                     | mV/g                | 5.1                        | mV/m/s <sup>2</sup>  |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | ±100                                                                                                                                                                      |                     | g pk                | ±981                       | m/s <sup>2</sup> pk  |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 1 to 5000                                                                                                                                                                 |                     | Hz                  | 1 to 5000                  | Hz                   |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 1 to 10000                                                                                                                                                                |                     | Hz                  | 1 to 10000                 | Hz                   |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | > 36                                                                                                                                                                      |                     | kHz                 | > 36                       | kHz                  |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 0.001                                                                                                                                                                     |                     | g RMS               | 0.01                       | m/s <sup>2</sup> RMS |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | ±1                                                                                                                                                                        |                     | % F.S.              | ±1                         | % F.S.               |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 5                                                                                                                                                                         |                     | %                   | 5                          | %                    |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 0.001                                                                                                                                                                     |                     | g/µε                | 0.01                       | m/s <sup>2</sup> /µε |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | <b>ENVIRONMENTAL</b><br>Maximum Shock<br>Temperature Range<br>Seal                                                                                                        |                     | ±2,000              |                            | g pk                 | 19620 | m/s <sup>2</sup> pk |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| -67 to +320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                                                                                                                                                                           |                     | °F                  | -55 to +160                | °C                   |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| Hermetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                           |                     |                     | Hermetic                   |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| <b>ELECTRICAL</b><br>Supply Current Range [4]<br>Compliance Voltage Range<br>Output Impedance, Typ<br>Bias Voltage<br>Discharge Time Constant<br>Electrical Isolation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    | 2 to 5                                                                                                                                                                    |                     | mA                  | 2 to 5                     | mA                   |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | +18 to +30                                                                                                                                                                |                     | Volts               | +18 to +30                 | Volts                |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 100                                                                                                                                                                       |                     | Ω                   | 100                        | Ω                    |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | +10 to +13                                                                                                                                                                |                     | VDC                 | +10 to +13                 | VDC                  |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 0.5 to 1.5                                                                                                                                                                |                     | Sec                 | 0.5 to 1.5                 | Sec                  |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 10                                                                                                                                                                        |                     | GΩ, min             | 10                         | GΩ, min              |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| <b>This family also includes:</b> <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response, ±10% (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr><tr><td>3056D9</td><td>10</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-67 to +320</td></tr><tr><td>3056D10</td><td>20</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-67 to +320</td></tr><tr><td>3056D12</td><td>100</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-67 to +320</td></tr><tr><td>3056D13</td><td>200</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-67 to +320</td></tr><tr><td>3056D14</td><td>500</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-67 to +320</td></tr></table>                                                                                                                                                                                                                                                                    |                    |                                                                                                                                                                           |                     |                     |                            |                      |       | Model               | Sensitivity (mV/g) | Frequency Response, ±10% (Hz) | Time Constant (Sec) | Operating Temp (°F) | 3056D9 | 10 | 1 to 10000 | 0.5 to 1.5 | -67 to +320 | 3056D10 | 20 | 1 to 10000 | 0.5 to 1.5 | -67 to +320 | 3056D12 | 100 | 1 to 10000 | 0.5 to 1.5 | -67 to +320 | 3056D13 | 200 | 1 to 10000 | 0.5 to 1.5 | -67 to +320 | 3056D14 | 500 | 1 to 10000 | 0.5 to 1.5 | -67 to +320 |
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sensitivity (mV/g) | Frequency Response, ±10% (Hz)                                                                                                                                             | Time Constant (Sec) | Operating Temp (°F) |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| 3056D9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                 | 1 to 10000                                                                                                                                                                | 0.5 to 1.5          | -67 to +320         |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| 3056D10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20                 | 1 to 10000                                                                                                                                                                | 0.5 to 1.5          | -67 to +320         |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| 3056D12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 100                | 1 to 10000                                                                                                                                                                | 0.5 to 1.5          | -67 to +320         |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| 3056D13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200                | 1 to 10000                                                                                                                                                                | 0.5 to 1.5          | -67 to +320         |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| 3056D14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500                | 1 to 10000                                                                                                                                                                | 0.5 to 1.5          | -67 to +320         |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| Refer to the performance specifications of the products in this family for detailed description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| <b>Supplied Accessories:</b><br>1) Accredited calibration certificate (ISO 17025)<br>2) Model 6200 mounting stud, Qty. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| <b>Notes:</b><br>[1] All specifications are at room temperature unless otherwise specified.<br>[2] Measured at 100Hz, 1 g RMS per ISA RP 37.2.<br>[3] Measure using zero-based straight line method, % of F.S. or any lesser range.<br>[4] Do not apply power to this system without current limiting, 5 mA MAX. To do so will destroy the IC charge amplifier.<br>[5] In the interest of constant product improvement, we reserve the right to change specifications without notice.<br>It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| <div><div><p>TYPICAL LOW FREQUENCY RESPONSE</p></div><div><p>TYPICAL TEMPERATURE RESPONSE</p></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |
| Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3056D9 for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                           |                     |                     |                            |                      |       |                     |                    |                               |                     |                     |        |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |     |            |            |             |         |     |            |            |             |



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