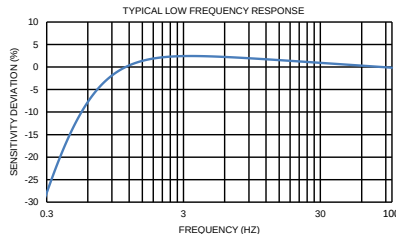
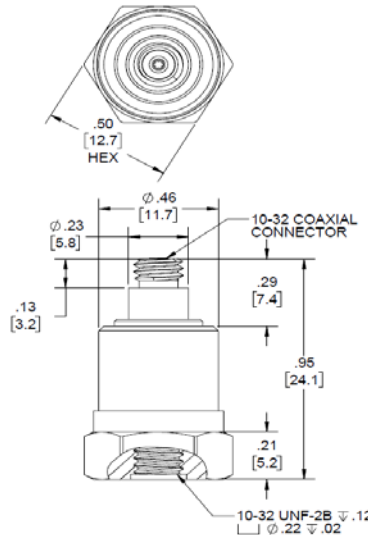
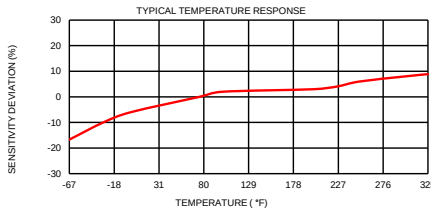




| Model Number<br>3056F5                                                                                                                                                                                                                                          |                    | PERFORMANCE SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                     |                | DOC NO<br>PS3056F5                                                                   |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|----------------|--------------------------------------------------------------------------------------|----------------------|-------|--------------------|-------------------------------|---------------------|---------------------|--------|---|-------------|------------|-------------|--------|----|-------------|------------|-------------|--------|----|-------------|------------|-------------|--------|-----|-------------|------------|-------------|--------|-----|-------------|------------|-------------|--------|-----|-------------|------------|-------------|
|                                                                                                                                                                                                                                                                 |                    | IEPE ACCELEROMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                     |                | REV B, ECN 17467, 06/10/24                                                           |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                |                    | <ul style="list-style-type: none"><li>• HIGH TEMPERATURE</li><li>• IDEAL LOW FREQUENCY RESPONSE</li><li>• HERMETICALLY SEALED</li><li>• BASE ISOLATED</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                  | 10.0           |                                                                                      | grams                |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 10-32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                     | 10-32          |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 10-32 X .150 ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                     | 10-32 X .150 ↓ |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 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                | 5.10           |                                                                                      | mV/m/s <sup>2</sup>  |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     | g pk                | 980            |                                                                                      | m/s <sup>2</sup> pk  |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 1 to 5,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Hz                  | 1 to 5,000     |                                                                                      | Hz                   |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 1 to 10,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | Hz                  | 1 to 10,000    |                                                                                      | Hz                   |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | > 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     | kHz                 | > 35           |                                                                                      | kHz                  |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 0.0004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | g RMS               | 0.0039         |                                                                                      | m/s <sup>2</sup> RMS |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | ± 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     | % F.S.              | ± 1            |                                                                                      | % F.S.               |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     | %                   | 5              |                                                                                      | %                    |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     | g/µε                | 0.02           |                                                                                      | m/s <sup>2</sup> /µε |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
| <b>ENVIRONMENTAL</b><br>Maximum Shock<br>Temperature Range<br>Seal                                                                                                                                                                                              |                    | 1,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     | g pk                | 9800           |                                                                                      | m/s <sup>2</sup> pk  |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | -67 to +325                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | °F                  | -55 to +163    |                                                                                      | °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 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | mA                  | 2 to 20        |                                                                                      | mA                   |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | +18 to +30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Volts               | +18 to +30     |                                                                                      | Volts                |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     | Ω                   | 100            |                                                                                      | Ω                    |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | +9 to +14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | VDC                 | +9 to +14      |                                                                                      | VDC                  |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 0.5 to 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Sec                 | 0.5 to 1.5     |                                                                                      | Sec                  |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     | GΩ, min             | 10.0           |                                                                                      | 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>3056F2</td><td>5</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3056F3</td><td>10</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3056F4</td><td>20</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3056F6</td><td>100</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3056F7</td><td>200</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr><tr><td>3056F8</td><td>500</td><td>1 to 10,000</td><td>0.5 to 1.5</td><td>-67 to +325</td></tr></table>                                                                                                                                                                                  |                     |                     |                |                                                                                      |                      | Model | Sensitivity (mV/g) | Frequency Response, ±10% (Hz) | Time Constant (Sec) | Operating Temp (°F) | 3056F2 | 5 | 1 to 10,000 | 0.5 to 1.5 | -67 to +325 | 3056F3 | 10 | 1 to 10,000 | 0.5 to 1.5 | -67 to +325 | 3056F4 | 20 | 1 to 10,000 | 0.5 to 1.5 | -67 to +325 | 3056F6 | 100 | 1 to 10,000 | 0.5 to 1.5 | -67 to +325 | 3056F7 | 200 | 1 to 10,000 | 0.5 to 1.5 | -67 to +325 | 3056F8 | 500 | 1 to 10,000 | 0.5 to 1.5 | -67 to +325 |
| Model                                                                                                                                                                                                                                                           | Sensitivity (mV/g) | Frequency Response, ±10% (Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Time Constant (Sec) | Operating Temp (°F) |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
| 3056F2                                                                                                                                                                                                                                                          | 5                  | 1 to 10,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5 to 1.5          | -67 to +325         |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
| 3056F3                                                                                                                                                                                                                                                          | 10                 | 1 to 10,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5 to 1.5          | -67 to +325         |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
| 3056F4                                                                                                                                                                                                                                                          | 20                 | 1 to 10,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5 to 1.5          | -67 to +325         |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
| 3056F6                                                                                                                                                                                                                                                          | 100                | 1 to 10,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5 to 1.5          | -67 to +325         |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
| 3056F7                                                                                                                                                                                                                                                          | 200                | 1 to 10,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5 to 1.5          | -67 to +325         |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
| 3056F8                                                                                                                                                                                                                                                          | 500                | 1 to 10,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5 to 1.5          | -67 to +325         |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | 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 100 Hz<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, 20 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. |                     |                     |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |                     |                |  |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                     |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |
|                                                                                                                                                                                                                                                                 |                    | Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3056 for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |                     |                |                                                                                      |                      |       |                    |                               |                     |                     |        |   |             |            |             |        |    |             |            |             |        |    |             |            |             |        |     |             |            |             |        |     |             |            |             |        |     |             |            |             |



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