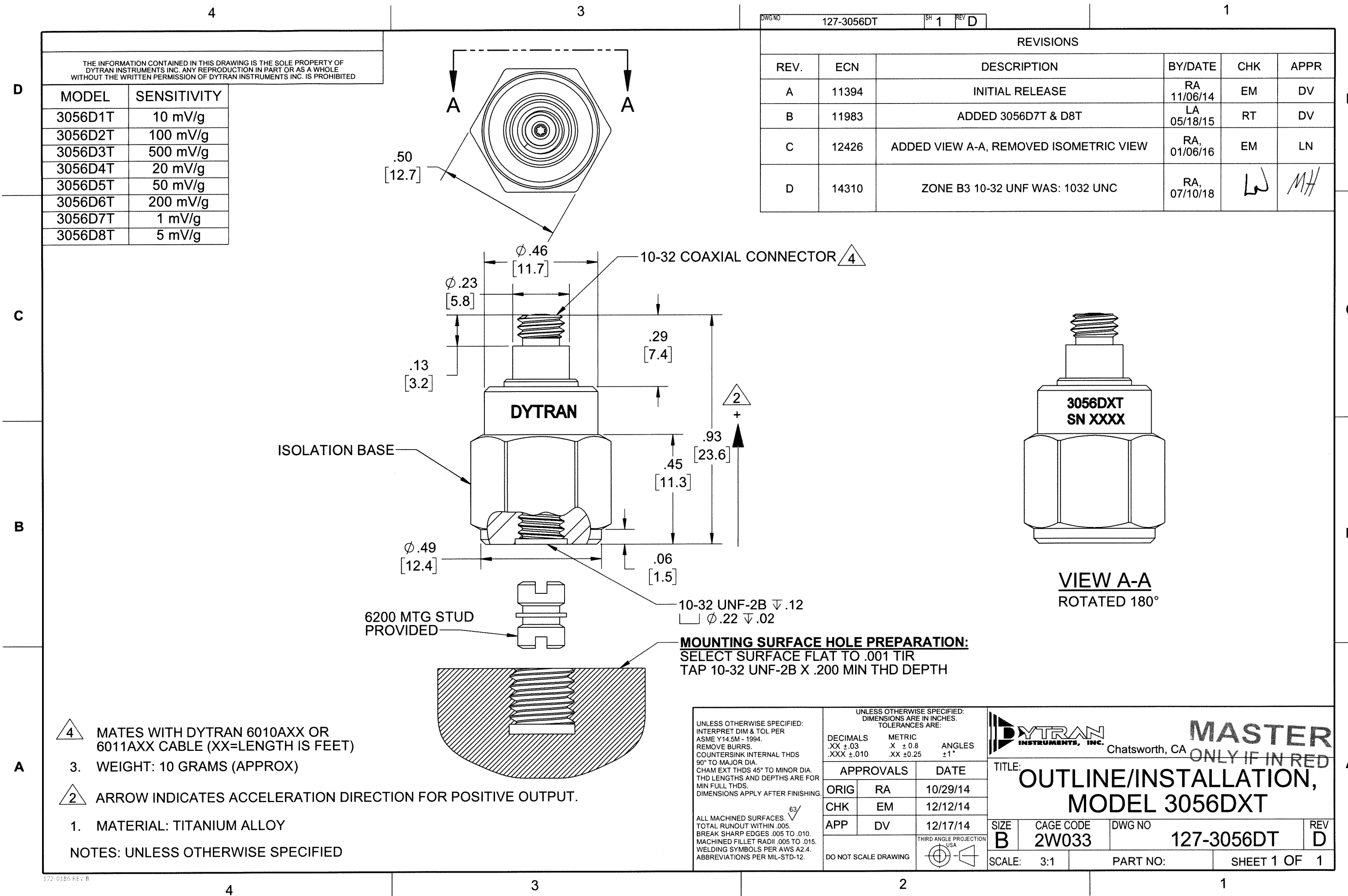


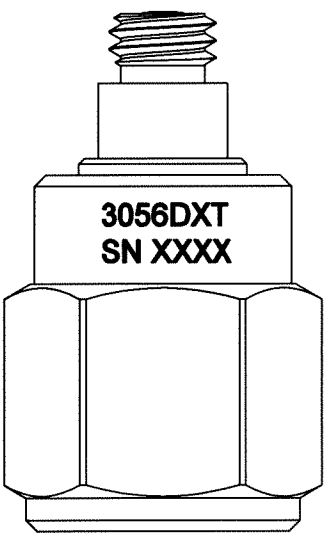


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| MODEL   | SENSITIVITY |
|---------|-------------|
| 3056D1T | 10 mV/g     |
| 3056D2T | 100 mV/g    |
| 3056D3T | 500 mV/g    |
| 3056D4T | 20 mV/g     |
| 3056D5T | 50 mV/g     |
| 3056D6T | 200 mV/g    |
| 3056D7T | 1 mV/g      |
| 3056D8T | 5 mV/g      |

DWG NO 127-3056DT SH 1 REV D

| REVISIONS |       |                                        |                 |     |      |
|-----------|-------|----------------------------------------|-----------------|-----|------|
| REV.      | ECN   | DESCRIPTION                            | BY/DATE         | CHK | APPR |
| A         | 11394 | INITIAL RELEASE                        | RA<br>11/06/14  | EM  | DV   |
| B         | 11983 | ADDED 3056D7T & D8T                    | LA<br>05/18/15  | RT  | DV   |
| C         | 12426 | ADDED VIEW A-A, REMOVED ISOMETRIC VIEW | RA,<br>01/06/16 | EM  | LN   |
| D         | 14310 | ZONE B3 10-32 UNF WAS: 1032 UNC        | RA,<br>07/10/18 | W   | MH   |



VIEW A-A  
ROTATED 180°

UNLESS OTHERWISE SPECIFIED:  
INTERPRET DIM & TOL PER  
ASME Y14.5M - 1994.  
REMOVE BURRS.  
COUNTERSINK INTERNAL THDS  
90° TO MAJOR DIA.  
CHAM EXT THDS 45° TO MINOR DIA.  
THD LENGTHS AND DEPTHS ARE FOR  
MIN FULL THDS.  
DIMENSIONS APPLY AFTER FINISHING.

ALL MACHINED SURFACES. <sup>63</sup>  
TOTAL RUNOUT WITHIN .005.  
BREAK SHARP EDGES .005 TO .010.  
MACHINED FILLET RADII .005 TO .015.  
WELDING SYMBOLS PER AWS A2.4.  
ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:

| DECIMALS   | METRIC    | ANGLES |
|------------|-----------|--------|
| .XX ±.03   | .X ± 0.8  | ±1°    |
| .XXX ±.010 | .XX ±0.25 |        |

| APPROVALS |    | DATE     |
|-----------|----|----------|
| ORIG      | RA | 10/29/14 |
| CHK       | EM | 12/12/14 |
| APP       | DV | 12/17/14 |

DO NOT SCALE DRAWING

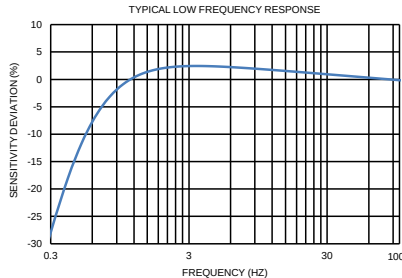
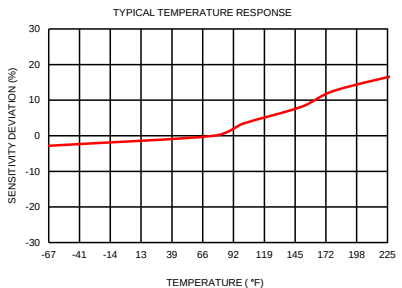
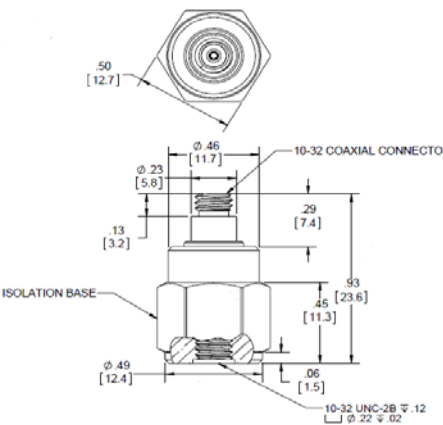
THIRD ANGLE PROJECTION  
USA

**DYTRAN**  
INSTRUMENTS, INC. Chatsworth, CA

**MASTER**  
ONLY IF IN RED

TITLE:  
**OUTLINE/INSTALLATION,  
MODEL 3056DXT**

|                      |                           |                             |                 |
|----------------------|---------------------------|-----------------------------|-----------------|
| SIZE<br><b>B</b>     | CAGE CODE<br><b>2W033</b> | DWG NO<br><b>127-3056DT</b> | REV<br><b>D</b> |
| SCALE:<br><b>3:1</b> | PART NO:                  | SHEET 1 OF 1                |                 |

| Model Number<br>3056D1T                                                           |                    | PERFORMANCE SPECIFICATIONS                                                                                               |                     |                     |                      | DOC NO<br>PS3056D1T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
|-----------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--------------------|-------------------------|---------------------|---------------------|---------|-----|------------|------------|-------------|---------|-----|------------|------------|-------------|---------|----|------------|------------|-------------|---------|----|------------|------------|-------------|---------|-----|------------|------------|-------------|---------|---|------------|------------|-------------|---------|---|------------|------------|-------------|
|                                                                                   |                    | IEPE ACCELEROMETER                                                                                                       |                     |                     |                      | REV F, ECN 16090, 03/02/21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
|  |                    | <ul style="list-style-type: none"><li>• HERMETICALLY SEALED</li><li>• BASE ISOLATED</li><li>• TEDS</li></ul>             |                     |                     |                      | <p>This family also includes:</p> <table><thead><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr></thead><tbody><tr><td>3056D2T</td><td>100</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3056D3T</td><td>500</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +225</td></tr><tr><td>3056D4T</td><td>20</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3056D5T</td><td>50</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3056D6T</td><td>200</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +225</td></tr><tr><td>3056D7T</td><td>1</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3056D8T</td><td>5</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr></tbody></table> <p>Refer to the performance specifications of the products in this family for detailed description</p> <p><b>Supplied Accessories:</b></p> <p>1) Accredited calibration certificate (ISO 17025)<br/>2) Model 6200 mounting stud, QTY 1</p> <p><b>Notes:</b></p> <p>[1] Measured at 100Hz, 1 g RMS per ISA RP 37.2.<br/>[2] Measured using zero-based straight line method, % of F.S. or any lesser range.<br/>[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.<br/>[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.</p> |  | Model | Sensitivity (mV/g) | Frequency Response (Hz) | Time Constant (Sec) | Operating Temp (°F) | 3056D2T | 100 | 1 to 10000 | 0.5 to 1.5 | -60 to +250 | 3056D3T | 500 | 1 to 10000 | 0.5 to 1.5 | -60 to +225 | 3056D4T | 20 | 1 to 10000 | 0.5 to 1.5 | -60 to +250 | 3056D5T | 50 | 1 to 10000 | 0.5 to 1.5 | -60 to +250 | 3056D6T | 200 | 1 to 10000 | 0.5 to 1.5 | -60 to +225 | 3056D7T | 1 | 1 to 10000 | 0.5 to 1.5 | -60 to +250 | 3056D8T | 5 | 1 to 10000 | 0.5 to 1.5 | -60 to +250 |
| Model                                                                             | Sensitivity (mV/g) | Frequency Response (Hz)                                                                                                  | Time Constant (Sec) | Operating Temp (°F) |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| 3056D2T                                                                           | 100                | 1 to 10000                                                                                                               | 0.5 to 1.5          | -60 to +250         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| 3056D3T                                                                           | 500                | 1 to 10000                                                                                                               | 0.5 to 1.5          | -60 to +225         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| 3056D4T                                                                           | 20                 | 1 to 10000                                                                                                               | 0.5 to 1.5          | -60 to +250         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| 3056D5T                                                                           | 50                 | 1 to 10000                                                                                                               | 0.5 to 1.5          | -60 to +250         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| 3056D6T                                                                           | 200                | 1 to 10000                                                                                                               | 0.5 to 1.5          | -60 to +225         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| 3056D7T                                                                           | 1                  | 1 to 10000                                                                                                               | 0.5 to 1.5          | -60 to +250         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| 3056D8T                                                                           | 5                  | 1 to 10000                                                                                                               | 0.5 to 1.5          | -60 to +250         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| <b>PHYSICAL</b>                                                                   |                    | ENGLISH                                                                                                                  |                     | SI                  |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Weight                                                                            |                    | 0.35                                                                                                                     | oz                  | 10                  | grams                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Connector                                                                         | Type               | 10-32                                                                                                                    |                     | 10-32               |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Mounting Provision                                                                | Tapped Hole        | 10-32 X .150 ↓                                                                                                           |                     | 10-32 X .150 ↓      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Material, Housing/Connector                                                       |                    | Titanium                                                                                                                 |                     | Titanium            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Sensing Element                                                                   |                    | Ceramic                                                                                                                  |                     | Ceramic             |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Element Style                                                                     |                    | Planar Shear                                                                                                             |                     | Planar Shear        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| <b>PERFORMANCE</b>                                                                |                    |                                                                                                                          |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Sensitivity, ±5% [1]                                                              |                    | 10                                                                                                                       | mV/G                | 1.0                 | mV/m/s <sup>2</sup>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Range for ± 5 Volts Output                                                        |                    | 500                                                                                                                      | g pk                | 4905                | m/s <sup>2</sup> pk  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Frequency Response, ±10%                                                          |                    | 1 to 10,000                                                                                                              | Hz                  | 1 to 10,000         | Hz                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Resonant Frequency                                                                |                    | > 36                                                                                                                     | kHz                 | > 36                | kHz                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Broad Band Resolution                                                             |                    | 0.0040                                                                                                                   | g RMS               | 0.0392              | m/s <sup>2</sup> RMS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Linearity [2]                                                                     |                    | ±1                                                                                                                       | % F.S.              | ±1                  | % F.S.               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Maximum Transverse Sensitivity                                                    |                    | 5                                                                                                                        | %                   | 5                   | %                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Strain Sensitivity @ 250µε                                                        |                    | 0.001                                                                                                                    | G/µε                | 0.01                | m/s <sup>2</sup> /µε |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| <b>ENVIRONMENTAL</b>                                                              |                    |                                                                                                                          |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Maximum Shock                                                                     |                    | 3000                                                                                                                     | g pk                | 29430               | m/s <sup>2</sup> pk  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Operating Temperature Range                                                       |                    | -67 to +225                                                                                                              | °F                  | -55 to +107         | °C                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| TEDS Operating Temperature                                                        |                    | -40 to +185                                                                                                              | °F                  | -40 to +85          | °C                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Seal                                                                              |                    | HERMETIC                                                                                                                 |                     | HERMETIC            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| <b>ELECTRICAL</b>                                                                 |                    |                                                                                                                          |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Supply Current Range [3]                                                          |                    | 2 to 20                                                                                                                  | mA                  | 2 to 20             | mA                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Compliance Voltage Range                                                          |                    | +18 to +30                                                                                                               | Volts               | +18 to +30          | Volts                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Output Impedence,Typ                                                              |                    | 100                                                                                                                      | Ω                   | 100                 | Ω                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Bias Voltage                                                                      |                    | +9 to +13                                                                                                                | VDC                 | +9 to +13           | VDC                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Discharge Time Constant                                                           |                    | .5 to 1.5                                                                                                                | Sec                 | .5 to 1.5           | Sec                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| Electrical Isolation                                                              |                    | 10                                                                                                                       | GΩ,min              | 10                  | GΩ,min               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
| TEDS                                                                              |                    | IEEE 1451.4                                                                                                              |                     | IEEE 1451.4         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
|                                                                                   |                    |                                                                                                                          |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
|                                                                                   |                    |                                                                                                                          |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
|                                                                                   |                    |                                                                                                                          |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |
|                                                                                   |                    | Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3056DT for more information. |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |                    |                         |                     |                     |         |     |            |            |             |         |     |            |            |             |         |    |            |            |             |         |    |            |            |             |         |     |            |            |             |         |   |            |            |             |         |   |            |            |             |



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