5. MINOR VOIDS, SCARS, SCRATCHES AND MOUNTING BLEMISH/WITNESS MARKS ON EXTERIOR SURFACES ARE ALLOWED DUE TO RESTRRAINING AND HANDLING DURING TESTING, TRANSPORT OR PROCESSING. THESE APPEAR AS INDICATORS THAT DO NOT AFFECT FORM, FIT OR FUNCTION AS INTENDED BY DESIGN OR APPLICATION.

MARKING DENOTES LOCATION OF SENSING ELEMENT'S CENTER OF MASS

MATES WITH DYTRAN 6964AXX CABLE (XX DENOTES LENGTH IN FT)

2. WEIGHT: 38 GRAMS, MAX.
1. MATERIAL: TITANIUM ALLOY.

NOTES: UNLESS OTHERWISE SPECIFIED
2X FLAT WASHERS, MODEL 6754, SUPPLIED

2X MOUNTING SCREW, MODEL 6753A1 (8-32 x 1.0), SUPPLIED
2X MOUNTING SCREW, MODEL 6687A1 (M4x0.7 x 25mm), SUPPLIED

RECOMMENDED MOUNTING PREPARATION:
PREPARE FLAT MOUNTING SURFACE EQUAL TO OR BETTER THAN .001 TIR.
TAP 8-32 UNF-2B .200 [5.1] MIN. (OR 8X M4 X 0.7-6S .20 [5.1] MIN.)
RECOMMENDED TORQUE 10-12 LB-IN. (1.12-1.35 N-m).

MOUNTING STUD, MODEL 6360,
1/4-28 TO 1/4-28, SUPPLIED

STUD, MODEL 6691,
1/4-28 UNF-2A TO M6 X 1, SUPPLIED

RECOMMENDED MOUNTING PREPARATION: MODEL 6366
PREPARE MOUNTING SURFACE, Ø 1.25 [31.2] MIN. FLAT TO .001 TIR.
TAP 1/4-28 UNF-2B Ø .200 [5.1] MIN. TORQUE TO 12-15 Lb-in.

RECOMMENDED MOUNTING PREPARATION: MODEL 6691
PREPARE MOUNTING SURFACE, Ø 1.25 [31.2] MIN. FLAT TO .001 TIR.
TAP M6 X 1 Ø .200 [5.1] MIN. TORQUE TO 12-15 Lb-in.
### Variable Capacitance Technology
- ± 4V Differential Output
- Hermetically Sealed
- DC Response

### Performance Specification

This family also includes:

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Range (g)</th>
<th>Frequency Response, ±3dB (Hz)</th>
<th>Sensitivity Differential, ±5% (mV/g)</th>
<th>Max. Shock (0.1ms) g (peak)</th>
<th>Noise Differential (μg/√Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7503D1</td>
<td>±2</td>
<td>0 - 400</td>
<td>2,000</td>
<td>2,000</td>
<td>10.5</td>
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<tr>
<td>7503D2</td>
<td>±5</td>
<td>0 - 800</td>
<td>800</td>
<td>2000</td>
<td>12</td>
</tr>
<tr>
<td>7503D3</td>
<td>±10</td>
<td>0 - 1000</td>
<td>400</td>
<td>2000</td>
<td>18</td>
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<tr>
<td>7503D4</td>
<td>±25</td>
<td>0 - 1500</td>
<td>160</td>
<td>2000</td>
<td>44</td>
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<tr>
<td>7503D5</td>
<td>±50</td>
<td>0 - 2700</td>
<td>80</td>
<td>2000</td>
<td>69</td>
</tr>
<tr>
<td>7503D6</td>
<td>±100</td>
<td>0 - 2500</td>
<td>40</td>
<td>2000</td>
<td>122</td>
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<tr>
<td>7503D7</td>
<td>±200</td>
<td>0 - 5000</td>
<td>10</td>
<td>2000</td>
<td>290</td>
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<tr>
<td>7503D8</td>
<td>±400</td>
<td>0 - 4000</td>
<td>10</td>
<td>2000</td>
<td>400</td>
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#### Physical

<table>
<thead>
<tr>
<th>Weight, Max</th>
<th>oz</th>
<th>grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3</td>
<td>38</td>
<td></td>
</tr>
</tbody>
</table>

### Connector Type

- 9-pin, 5/16-32 UNEF-2A (ENGLISH)
- 9-pin, 5/16-32 UNEF-2A (SI)

### Material

- Titanium Alloy (ENGLISH)
- Titanium Alloy (SI)

### Sensing Technology

- MEMS (ENGLISH)
- MEMS (SI)

### Performance

**Input Range**

- X & Y Axes: ±5 g, ±49.1 m/s²
- Z Axis: ±25 g, ±196.2 m/s²

**Frequency Response (±5%)**

- X & Y Axes: 0 - 400 Hz
- Z Axis: 0 - 500 Hz

**Frequency Response (±3dB)**

- X & Y Axes: 0 - 800 Hz
- Z Axis: 0 - 1500 Hz

**Resonant Frequency**

- ±2000 Hz

**Sensitivity Differential, ±5% [1]**

- X & Y Axes: 800 mV/g
- Z Axis: 160 mV/g

**Output Noise, Differential, Typ**

- X & Y Axes: 12 μg rms/v Hz
- Z Axis: 44 μg rms/v Hz

**Non-Linearity, Max [2]**

- X & Y Axes: 0.5 % F.S
- Z Axis: 3 %

**Cross Axis Sensitivity, Max**

- X & Y Axes: 1 %

**Zero Measured Output**

- ±50 mV

### Environmental

**Maximum Mechanical Shock (0.1 ms)**

- ±2000 gpk

**Bias Temperature Shift, Max [3]**

- 111 ppm of span/°F

**Bias Calibration Error, Max**

- 0.5 % of span

**Operating Temperature Range [4]**

- -67 to +257 °F

**Scale Factor Temperature Shift [3]**

- -111 to +111 ppm/°F

**Seal**

- Hermetic

### Electrical

**Output Common Mode Voltage, Typ**

- ±2.5 VDC

**Output Impedance**

- <10K Ω

**Operating Voltage**

- ±10V to ±33V

**Operating Current (AOP & AON open), Max**

- 35 mA DC

**Power Supply Rejection Ratio**

- >65 dB

**Ground Isolation**

- >30 MD