### RECOMMENDED MOUNTING TORQUE

6-8 lb-in.

### 3313AXH MATES WITH DYTRAN 6967AXX CABLE (XX= LENGTH IN FEET)

### 3313AX MATES WITH DYTRAN 6811AXX OR 6824AXXX CABLE (XX= LENGTH IN FEET)

### SENSITIVITY: SEE CHART

### WEIGHT: 4 GRAMS APPROX.

### ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT

1. MATERIAL: TITANIUM ALLOY

### NOTES: UNLESS OTHERWISE SPECIFIED

#### 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
- THDS PER MIL-STD-7742.
- DIMENSIONS APPLY AFTER FINISHING, ALL MACHINED SURFACES.
- TOTAL RUNOUT WHITHIN .005
- BREAK SHARP EDGES .005 TO .010
- MACHINED FILLET RAD. .005 TO .015
- WELDING SYMBOLS PER AWS A2.4
- ABBREVIATIONS PER MIL-STD-12.

#### MATERIAL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SENSITIVITY</th>
<th>OPERATING TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3313A1</td>
<td>1 mV/g</td>
<td>-60° TO 250° F</td>
</tr>
<tr>
<td>3313A2</td>
<td>5 mV/g</td>
<td>-60° TO 250° F</td>
</tr>
<tr>
<td>3313A3</td>
<td>10 mV/g</td>
<td>-60° TO 250° F</td>
</tr>
<tr>
<td>3313A1H</td>
<td>1 mV/g</td>
<td>-60° TO 325° F</td>
</tr>
<tr>
<td>3313A2H</td>
<td>5 mV/g</td>
<td>-60° TO 325° F</td>
</tr>
<tr>
<td>3313A3H</td>
<td>10 mV/g</td>
<td>-60° TO 325° F</td>
</tr>
<tr>
<td>3313A4</td>
<td>5 mV/g</td>
<td>-320° TO 250° F</td>
</tr>
</tbody>
</table>

### MODEL 6200 MTG STUD PROVIDED

- MOUNTING RECOMMENDATIONS:
  - PREPARE SURFACE AT LEAST Ø0.45 [14.4]
  - SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .001 TIR
  - TAP 10-32 UNF-2B .120 [3] MIN

### OUTLINE/INSTALLATION DRAWING, 3313A SERIES

<table>
<thead>
<tr>
<th>SIZE</th>
<th>CAGE CODE</th>
<th>DWG. NO.</th>
<th>REV</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEM</td>
<td>2W033</td>
<td>127-3313A</td>
<td>C</td>
</tr>
</tbody>
</table>

### SCALE: 2:1
**Model Number**
3313A1

**PERFORMANCE SPECIFICATION**

**TRIAXIAL IEPE ACCELEROMETER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Sensitivity (mV/g)</th>
<th>Range F.S (g)</th>
<th>Time Constant (sec)</th>
<th>Operating Temperature (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3313A2</td>
<td>5</td>
<td>± 1000</td>
<td>0.2 to 1.0</td>
<td>-60 to +250</td>
</tr>
<tr>
<td>3313A3</td>
<td>10</td>
<td>± 500</td>
<td>0.2 to 1.0</td>
<td>-60 to +250</td>
</tr>
</tbody>
</table>

This family also includes:

- WEIGHT ONLY 4 GRAMS
- EXCELLENT LINEARITY
- TEMPERATURE STABILITY
- HERMETICALLY SEALED

Please, refer to the performance specifications of the products in this family for detailed description.

**Supplied Accessories:**
1) Accredited calibration certificate (ISO 17025)
2) Model 6200 mounting stud

**Notes:**
1) Measure at 100Hz, 1 grms per ISA RP 37.2
2) Measure using zero-based straight line method, % of F.S. or any lesser range.
3) For motion in direction of arrows on housing.
4) Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
5) Typical, not to exceed .10 Grms [.98 m/s² rms]
6) Mates with Dytran 6811AXX or 6824AXX cable (XX = Length in feet)
7) In the interest of constant product improvement, we reserve the right to change specifications without notice.

**Physical**

- Weight, Max: 0.14 oz, 4.1 grams
- Connector: 1/4-28, 4 Pin
- Mounting Provision: Tapped Hole
- Material / Housing / Connector: Titanium
- Element Style: Quartz Planar Shear

**Performance**

- Sensitivity, ±10% [1]: ± 0.10 mV/m/s²
- Range F.S (each axis): ±5000 g
- Frequency Response, ± 15%: 1.2 to 10000 Hz
- Equivalent Natural Frequency: > 30 kHz
- Equivalent Electrical Noise [5]: 0.07 mV
- Linearity [2]: ± 1 % F.S.
- Maximum Transverse Sensitivity: 5 %
- Signal Polarity [3]: Positive

**Environmental**

- Maximum Vibration: ± 7000 g/peak
- Maximum Shock: ±5000 g/peak
- Temperature Range: -60 to +250 °F
- Seal: Hermetic
- Base Strain: 0.006 g/µε

**Electrical**

- Supply Current Range: 2 to 20 mA
- Compliance (Supply Voltage Range: ± 18 +30 Volts)
- Output Impedance, Typ: 100 Ω
- Bias Voltage: ± 7 to +9 VDC
- Discharge Time Constant: 0.2 to 1.0 Sec
- Ground Isolation: Case Ground

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