NOTES: UNLESS OTHERWISE SPECIFIED.

TORQUE MOUNTING BOLT TO: 15-20 LB-INCHES.

UNLESS OTHERWISE SPECIFIED:
- REMOVE BURRS.
- COUNTERSINK INTERNAL THDS 60° TO MAJOR DIA.
- CHAM EXT THDS 45° TO MINOR DIA.
- THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
- THDS PER MIL-S-7742.
- DIMENSIONS APPLY AFTER FINISHING.
- ALL MACHINED SURFACES.
- TOTAL RUNOUT WITHIN .005.
- BREAK SHARP EDGES .005 TO .010.
- MACHINED FILLET RADS .005 TO .015.
- WELDING SYMBOLS PER AWS A2.4.
- ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES.
- TOLERANCES ARE:
  - DECIMALS: .010
  - ANGLES: ±1°
  - .XX: .005
  - .XXX: .005

MATERIAL:
- APPROVALS: ORIG PML 4/1/2005
- DATE: 4/1/2005

FINISH:
- APP PML 12/1/08

- DO NOT SCALE DRAWING
- CONTRACT NO.
- TITLE:
- OUTLINE DRAWING, MODEL 3211A
- SIZE: A
- CAGE CODE: 2W033
- DWG. NO: 127-3211A
- REV: A
- SCALE: 2:1
- SOLIDWORKS
- SHEET 1 OF 1

MASTERC
ONLY IF IN RED

3211A1: 10mV/g
3211A2: 100mV/g
Model Number | DOC NO
---|---
3211A2 | P93211A2

**PERFORMANCE SPECIFICATIONS**

**IEPE ACCELEROMETER**

**This family also includes:**

- **EXCELLENT LINEARITY**
- **HERMETICALLY SEALED**

<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>3211A1</td>
<td>10</td>
<td>1 to 10000</td>
<td>0.8 to 2.0</td>
<td>-67 to 250</td>
</tr>
</tbody>
</table>

**Supplied Accessories:**

1. Accredited calibration certificate (ISO 17025)
2. Model 6595 mounting screw (8-32)
3. Model 6597 mounting Screw (M4x.7)

**Notes:**

1. Measured at 100Hz, 1 G rms per ISA RP 37.2.
2. Measure using zero-based straight line method, % of F.S. or any lesser range.
3. Electrical ground isolated from sensor mounting surface.
4. For acceleration into base.
5. Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
6. In the interest of constant product improvement, we reserve the right to change specifications without notice.

**Engraving:**

- Model No.
- Rev.
- ECN

**Sensitivity (mV/g) Frequency Response (Hz) Time Constant (Sec) Operating Temp (°F)**

- 3211A1 10 1 to 10000 0.8 to 2.0 -67 to 250

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6595 mounting screw (8-32)
- 3) Model 6597 mounting Screw (M4x.7)

**Notes:**

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6. In the interest of constant product improvement, we reserve the right to change specifications without notice.

**Performance Specifications**

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>SI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.35 oz</td>
</tr>
<tr>
<td>Connector, coaxial Type</td>
<td>10-32</td>
</tr>
<tr>
<td>Mounting Provision, thru hole</td>
<td>Ø 0.17 thru hole</td>
</tr>
<tr>
<td>Material Body/Connector Material</td>
<td>Titanium</td>
</tr>
<tr>
<td>Element Style</td>
<td>Shear</td>
</tr>
</tbody>
</table>

**Physical Characteristics:**

- Sensitivity +/− 5% [1]
- Frequency Response +/− 5% [2]
- Equivalent Electrical Noise Floor, ± 5% [3]
- Linearity [2]
- Maximum Transverse Sensitivity ± 5% [5]
- Strain Sensitivity @ 250µε 0.04 g/µε 0.39 m/s²/µε

**Environmental Characteristics:**

- Maximum Vibration ± 500 gpk ± 4905 m/s²/ pk
- Temperature Range -67 to +250 °F -51 to +121 °C
- Magnetic Sensitivity @ 100 Gauss 0.004 g/Gauss 392.40 m/s²/T

**Electrical Characteristics:**

- Supply Current 2 to 20 mA 2 to 20 mA
- Compliance Voltage Range 18 to 30 V 18 to 30 V
- Output Impedance, Typ 120 Ω 120 Ω
- Bias Voltage +11 to +13 VDC +11 to +13 VDC
- Discharge Time Constant 0.8 to 2.0 sec 0.8 to 2.0 sec
- Electrical Isolation [3] 10 GΩ 10 GΩ

**Other Details:**

- Refer to the performance specifications of the products in this family for detailed descriptions.

**Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3211A for more information.**

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