

| PROPRIETARY AND CONFIDENTIAL | | | REVISIONS | | | | | |
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| | | | C | 13192 | NOTE 6: IS:...DYTRAN 6967AXX, WAS...DYTRAN 6811AXX | EM 12/21/16 | W | AS |

| MODEL | SENSITIVITY | OPERATING TEMPERATURE |
|---------|-------------|-----------------------|
| 3313A1 | 1 mV/g | -60° TO 250° F |
| 3313A2 | 5 mV/g | -60° TO 250° F |
| 3313A3 | 10 mV/g | -60° TO 250° F |
| 3313A1H | 1 mV/g | -60° TO 325° F |
| 3313A2H | 5 mV/g | -60° TO 325° F |
| 3313A3H | 10 mV/g | -60° TO 325° F |
| 3313A4 | 5 mV/g | -320° TO 250° F |

47
[11.9]

2

.70
[17.7]

.32
[8]

2

.36
[9.1]

.36
[9.1]

2

7 RECOMMENDED MOUNTING TORQUE 6-8 lb-in.

6 3313AXH MATES WITH DYTRAN 6967AXX CABLE (XX= LENGTH IN FEET)

5 3313AX MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX= LENGTH IN FEET)

4. SENSITIVITY: SEE CHART

3. WEIGHT: 4 GRAMS APPROX.

2 ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT

1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED

1/4-28 4-PIN CONNECTOR

5 6

+X

+Y

PIN 4 X-AXIS (1) OUTPUT

PIN 3 Z-AXIS (3) OUTPUT

PIN 1 GND RETURN COMMON

PIN 2 Y-AXIS (2) OUTPUT


Ø.35 MOUNTING SURFACE 10-32 UNF 2B X ∇.12

MODEL 6200 MTG STUD PROVIDED

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

| | | | | | |
|--------------|--|--|--|---|--|
| CONTRACT NO. | | <p>MASTER COPY IF IN RED Chatsworth, CA</p> | | TITLE: | |
| | | | | OUTLINE/INSTALLATION DRAWING, 3313A SERIES | |
| | | APPROVALS | | DATE | |
| | | ORIG JS | | 06/04/10 | |
| | | CHK W | | 1/3/17 | |
| | | APP | | APP | |
| | | DO NOT SCALE DRAWING | | DO NOT SCALE DRAWING | |

| | | | | | | | | | | | | | |
|--|--|---|--|---|--|------------------|--|---------------------------|--|------------------------------|--|-----------------|--|
| USED ON APPLICATION THIRD ANGLE PROJECTION | | NEXT ASSY DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. 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. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ±.03 .X ±.08 ±1° .XXX±.010 .XX ±0.25 | | SIZE A | | CAGE CODE 2W033 | | DWG. NO. 127-3313A | | REV C | |
| | | | | SCALE: 2:1 | | SOLIDWORKS | | SHEET 1 OF 1 | | | | | |

| Model Number 3313A3 | | PERFORMANCE SPECIFICATION | | | | DOC NO PS3313A3 | | | | | | | | | | | | | | | | |
|--|--------------------|---|---------------------|--------------------------------------|--|--|--|-------|--------------------|---------------|---------------------|----------------------------|--------|---|--------|------------|-------------|--------|---|--------|------------|-------------|
| | | TRIAxIAL IEPE ACCELEROMETER | | | | REV D, ECN 13192 12/21/16 | | | | | | | | | | | | | | | | |
|  | | <ul style="list-style-type: none">• WEIGHT ONLY 4 GRAMS• EXCELLENT LINEARITY• TEMPERATURE STABILITY• HERMETICALLY SEALED | | | | This family also includes: <table><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><tr><td>3313A1</td><td>1</td><td>± 5000</td><td>0.2 to 1.0</td><td>-60 to +250</td></tr><tr><td>3313A2</td><td>5</td><td>± 1000</td><td>0.2 to 1.0</td><td>-60 to +250</td></tr></table> | | Model | Sensitivity (mV/g) | Range F.S (g) | Time Constant (sec) | Operating Temperature (°F) | 3313A1 | 1 | ± 5000 | 0.2 to 1.0 | -60 to +250 | 3313A2 | 5 | ± 1000 | 0.2 to 1.0 | -60 to +250 |
| Model | Sensitivity (mV/g) | Range F.S (g) | Time Constant (sec) | Operating Temperature (°F) | | | | | | | | | | | | | | | | | | |
| 3313A1 | 1 | ± 5000 | 0.2 to 1.0 | -60 to +250 | | | | | | | | | | | | | | | | | | |
| 3313A2 | 5 | ± 1000 | 0.2 to 1.0 | -60 to +250 | | | | | | | | | | | | | | | | | | |
| <p>Please, refer to the performance specifications of the products in this family for detailed description</p> <p>Supplied Accessories:</p> <p>1) Accredited calibration certificate (ISO 17025) 2) Model 6200 mounting stud</p> <p>Notes:</p> <p>[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] In the interest of constant product improvement, we reserve the right to change specifications without notice. [6] Mates with Dytran 6811AXX or 6824AXX cable (XX = Length in feet)</p> | | | | | | | | | | | | | | | | | | | | | | |
| PHYSICAL Weight, Max Connector Mounting Provision Material : Housing / Connector Element Style | | Tapped Hole | | | | | | | | | | | | | | | | | | | | |
| | | ENGLISH | | SI | | | | | | | | | | | | | | | | | | |
| | | 0.14 | | oz | | 4.1 | | | | | | | | | | | | | | | | |
| | | 1/4-28, 4 - Pin | | | | 1/4-28, 4 - Pin | | | | | | | | | | | | | | | | |
| | | 10-32 | | | | 10-32 | | | | | | | | | | | | | | | | |
| | | Titanium | | | | Titanium | | | | | | | | | | | | | | | | |
| | | Quartz Planar Shear | | | | Quartz Planar Shear | | | | | | | | | | | | | | | | |
| | | | | | | grams | | | | | | | | | | | | | | | | |
| PERFORMANCE Sensitivity, ±10% [1] Range F.S (each axis) Frequency Response, ± 15% Equivalent Natural Frequency | | 10 ±500 1.2 to 10000 > 30 0.007 | | mV/g g Hz kHz grms | | 1.02 ±4905 1.2 to 10000 > 30 0.07 | | | | | | | | | | | | | | | | |
| | | ± 1 | | % F.S. | | ± 1 | | | | | | | | | | | | | | | | |
| | | 5 | | % | | 5 | | | | | | | | | | | | | | | | |
| | | Positive | | | | Positive | | | | | | | | | | | | | | | | |
| | | | | | | mV/m/s ² m/s ² Hz kHz m/s ² rms | | | | | | | | | | | | | | | | |
| ENVIRONMENTAL Maximum Vibration Maximum Shock Temperature Range Seal Base Strain | | ± 600 ±5000 -60 to +250 Hermetic 0.006 | | g's, peak g's, peak °F g/με | | ± 5886 ± 49050 -51 to +121 Hermetic 0.06 | | | | | | | | | | | | | | | | |
| | | | | | | m/s ² peak m/s ² peak °C m/s ² /με | | | | | | | | | | | | | | | | |
| Electrical Supply Current Range Compliance (Supply) Voltage Range Output Impedance, Typ Bias Voltage Discharge Time Constant Ground Isolation | | 2 to 20 + 18 to +30 100 +7 to +9 0.2 to 1.0 Case Ground | | mA Volts Ω VDC Sec | | 2 to 20 + 18 to +30 100 +7 to +9 0.2 to 1.0 Case Ground | | | | | | | | | | | | | | | | |
| | | | | | | mA Volts Ω VDC Sec | | | | | | | | | | | | | | | | |
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