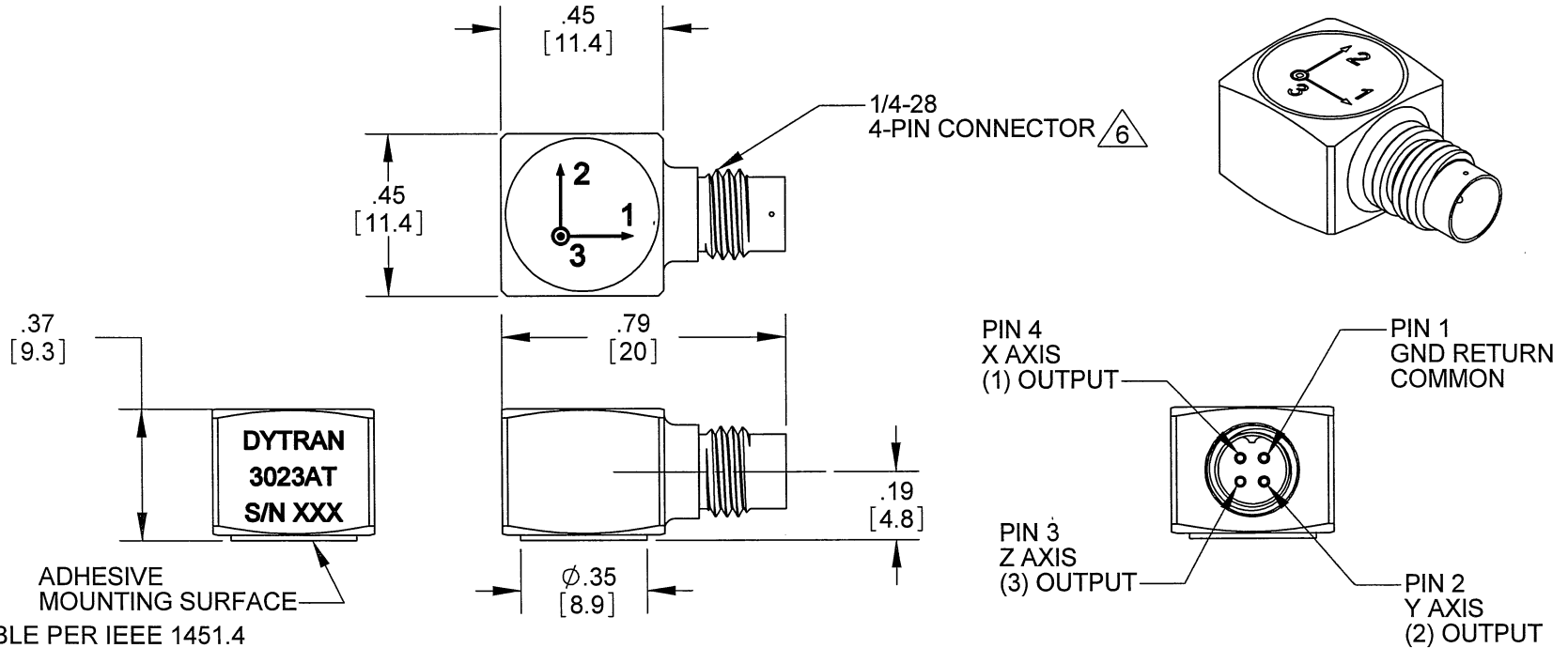


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REVISIONS

| REV. | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|------|------|------------------------------------|-----------------|-----|------|
| A | 6250 | ADDED NOTE 5, 6, 7 AND REFORMATTED | RA, 11/23/09 | | |



- 7. TEDS COMPATIBLE PER IEEE 1451.4
- 6. MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX=LENGTH IN FEET)
- 5. OPERATIONAL TEMPERATURE: -60° TO +250°F
- 4. SENSITIVITY: 10mV/G NOM.
- 3. WEIGHT: 4.5 GRAMS NOM
- 2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
- 1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED

| | | |
|----------------------------|-----------|--|
| USED ON | NEXT ASSY | 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-S-7742. 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. |
| APPLICATION | | |
| THIRD ANGLE PROJECTION USA | | |

| | |
|--|--|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ± .03 .X ± 0.8 ± 1° .XXX ± .010 .XX ± 0.25 | |
| MATERIAL | |
| FINISH | |
| DO NOT SCALE DRAWING | |

| | |
|--------------|--------------|
| CONTRACT NO. | |
| APPROVALS | |
| ORIG | PML 11/28/05 |
| CHK | PML 11/28/05 |
| APP | PML 02/04/06 |
| APP | |

MASTER ONLY IF IN RED
Chatsworth, CA

TITLE: **OUTLINE DRAWING, 3023AT TRIAXIAL ACCELEROMETER, TEDS**

| | | | |
|----------|--------------|-------------------|----------|
| SIZE | CAGE CODE | DWG. NO. | REV |
| A | 2W033 | 127-3023AT | A |

SCALE: 4:1 SOLIDWORKS SHEET 1 OF 1



SPECIFICATIONS, MODEL 3023AT TRIAXIAL ACCELEROMETER WITH TEDS

| SPECIFICATIONS | VALUE | UNITS |
|---|--|--------------|
| PHYSICAL | | |
| WEIGHT | 4.5 | grams |
| SIZE (HEIGHT x WIDTH x DEPTH) | 0.45 x .45 x .37 | inches |
| MOUNTING | ADHESIVE MOUNT | |
| CONNECTOR | 4-PIN [1] | |
| MATERIAL, HOUSING/CONNECTOR | TITANIUM ALLOY | |
| PERFORMANCE | | |
| SENSITIVITY, -10 +15% [2] | 10.0 | mV/g |
| RANGE, F.S. (each axis) | +/- 500 | g |
| FREQUENCY RESPONSE, -5 / +15% | 1.5 to 10000 | Hz |
| ELEMENT NATURAL FREQUENCY, NOM. | 40 | kHz |
| EQUIVALENT ELECTRICAL NOISE | .0095 | grms |
| LINEARITY, MAX [3] | 1 | % FS |
| TRANSVERSE SENSITIVITY, MAX | 5 | % |
| SIGNAL POLARITY | POSITIVE FOR MOTION IN DIRECTION OF ARROWS ON HOUSING | |
| ENVIRONMENTAL | | |
| MAXIMUM VIBRATION | +/- 600 | gpk |
| MAXIMUM SHOCK | 5000 | gpk |
| TEMPERATURE RANGE | -60 to +250 | °F |
| ENVIRONMENTAL SEAL | HERMETIC | |
| COEFFICIENT OF THERMAL SENSITIVITY | .03 | %/°F |
| ELECTRICAL | | |
| SUPPLY CURRENT RANGE, (each axis) [4] | 2-to 20 | mA |
| COMPLIANCE (SUPPLY) VOLTAGE RANGE (each axis) | +18 to +30 | VDC |
| OUTPUT IMPEDANCE, TYP. | 100 | Ohms |
| OUTPUT BIAS VOLTAGE, NOM. | +10 | VDC |
| DISCHARGE TIME CONSTANT, NOM. | 0.3 | sec |
| GROUND ISOLATION | CASE GROUNDED | |
| IEPE SENSOR WITH TEDS FEATURE | PER IEEE 1451.4 | |

[1] Connector mates with Dytran cable assy. Model 6811Axx. (xx = length in feet)

[2] Reference sensitivity measured at 100 Hz, 1 grms per ISA RP 37.2

[3] Linearity is % of specified full scale (or any lesser full scale range), zero-based best fit straight line method.

[4] Power only with IEPE power unit or other Dytran-compatible constant current type power unit. If power is applied without current limiting protection, the internal amplifier will be immediately destroyed.