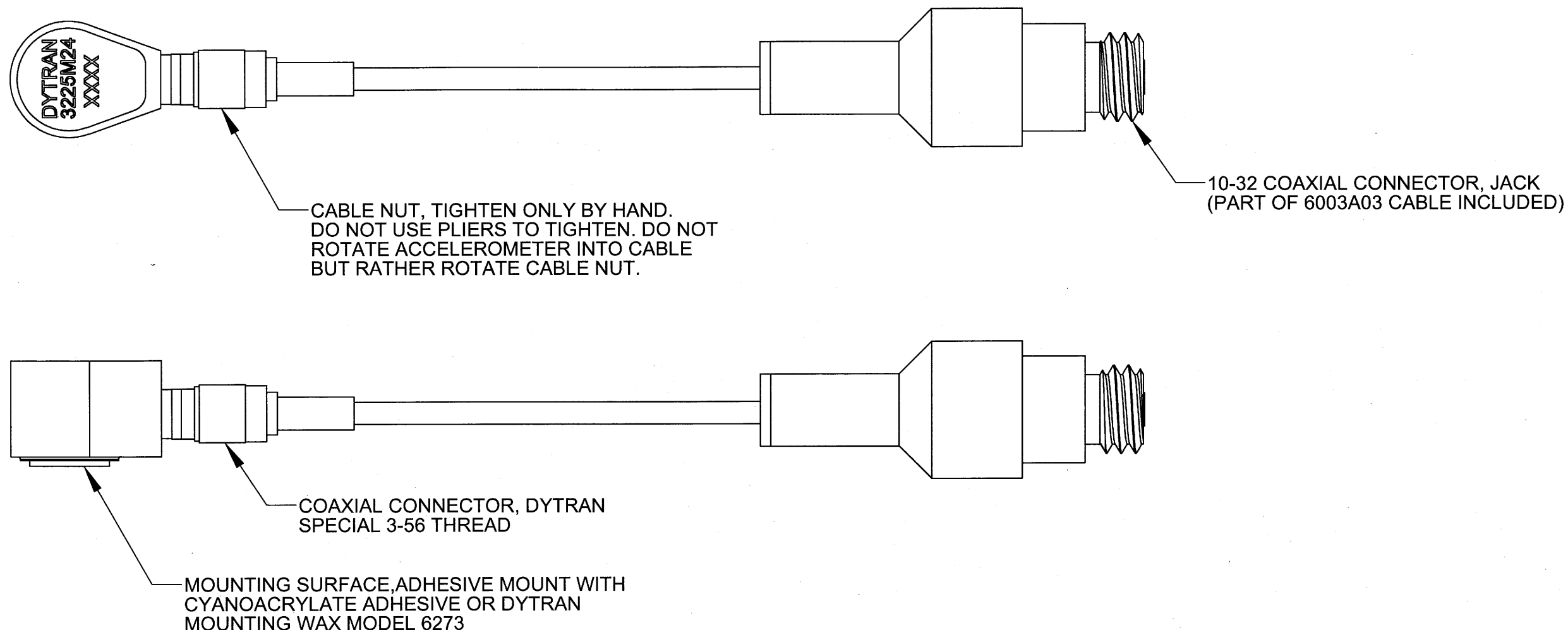


| REVISIONS | | | | | |
|-----------|------|-----------------------|----------------|-----|------|
| REV. | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
| B | 5081 | REDRAWN IN SOLIDWORKS | JS 02/28/08 | PA | PML |




3. CASE AND CONNECTOR MATERIAL: TITANIUM.

2. WEIGHT LESS CABLE: 0.85 GRAMS.

1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

NOTES: UNLESS OTHERWISE SPECIFIED

| DRILL HOLE SIZE | TOLERANCE | 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. |
|-------------------------------|-----------------|--|
| .0135 THRU .125 | + .004 / - .001 | 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. |
| .1260 THRU .250 | + .005 / - .001 | |
| .2510 THRU .500 | + .006 / - .001 | |
| .5010 THRU .750 | + .008 / - .001 | |
| .7510 THRU 1.000 | + .010 / - .001 | |
| 1.001 THRU 2.000 | + .012 / - .001 | |
| THIRD ANGLE PROJECTION USA | | |

| | | | | | | | | | |
|---|--|--------------|-----|---|--|---|-----------|-------------|--------------|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX ± .010 .XXX ± .005 | | CONTRACT NO. | | <div>Chatsworth, CA</div> <div>MASTER ONLY IF IN RED</div> | | | | | |
| ANGLES ±1° | | APPROVALS | | | | TITLE: | | | |
| MATERIAL: | | ORIG | JS | 02/01/08 | | OUTLINE/INSTALLATION DRAWING 3225M24 | | | |
| | | CHK | CES | 2/13/08 | | | | | |
| FINISH: | | APP | DV | 2/14/08 | | SIZE | CAGE CODE | DWG NO | REV |
| | | APP | | | | B | 2W033 | 127-3225M24 | B |
| DO NOT SCALE DRAWING | | | | | | SCALE: NONE | | SOLIDWORKS | SHEET 1 of 1 |



SPECIFICATIONS

MODEL 3225M24 MINIATURE IEPE ACCELEROMETER

| SPECIFICATION | VALUE | UNITS |
|--|--|------------------|
| PHYSICAL | | |
| WEIGHT | 1 | gram |
| SIZE (DIA x LENGTH HEX x HEIGHT) | 0.25 x 0.43 x .215 | inch |
| MOUNTING PROVISION | Flat mounting surface for adhesive mount | |
| CONNECTOR, RADIALLY MOUNTED [1] | 3-56 | |
| CASE MATERIAL | Titanium | |
| SENSING ELEMENT TYPE | Piezoceramics, planar shear | |
| PERFORMANCE | | |
| SENSITIVITY, $\pm 10\%$ [2] [3] | 100 | mV/g |
| RANGE F.S. FOR ± 5 VOLTS OUT | ± 50 | g |
| FREQUENCY RESPONSE, $\pm 10\%$ [3] | 2 to 10,000 | Hz |
| MOUNTED RESONANT FREQUENCY, NOM. | 40 | kHz |
| EQUIVALENT ELECTRICAL NOISE FLOOR | .00035 | grms |
| AMPLITUDE NON-LINEARITY, (ZERO BASED BEST-FIT ST.LINE METHOD) | 2 | % F.S., MAX. |
| TRANSVERSE SENSITIVITY, MAX. | 5 | % |
| STRAIN SENSITIVITY @ 250 $\mu\epsilon$ | .05 | g/ $\mu\epsilon$ |
| ENVIRONMENTAL | | |
| MAXIMUM VIBRATION | 400 | grms |
| MAXIMUM SHOCK | 5000 | gpk |
| TEMPERATURE RANGE | -60 TO +220 | $^{\circ}$ F |
| THERMAL COEFFICIENT OF SENSITIVITY | .15 | %/ $^{\circ}$ F |
| ENVIRONMENTAL SEAL | Hermetic, TIG welded & glass-to-metal seal connector | |
| ELECTRICAL | | |
| SUPPLY CURRENT [4] | 2 to 20 | mA |
| COMPLIANCE VOLTAGE RANGE | +18 to +30 | Volts |
| OUTPUT IMPEDANCE, TYP. | 70 | Ω |
| BIAS VOLTAGE | +11 to +13 | Vdc |
| DISCHARGE TIME CONSTANT, NOM. | 0.4 | sec |
| OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP | Positive | |

SUPPLIED ACCESSORIES:

- (1) MODEL 6591A INSTALLATION REMOVAL WRENCH
- (2) 6298 SMALL PETRO WAX

NOTES:

- [1] CONNECTOR MATES ONLY WITH DYTRAN CABLE MODEL 6003AXX (XX IS LENGTH IN FEET)
- [2] MEASURED AT 100 Hz, 1 grms PER ISA RP37.2.
- [3] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO NIST, SUPPLIED WITH EACH INSTRUMENT.
- [4] DO NOT APPLY POWER TO THIS DEVICE WITHOUT CURRENT LIMITING, 20 mA MAX. TO DO SO WILL DESTROY THE INTEGRAL IC AMPLIFIER.