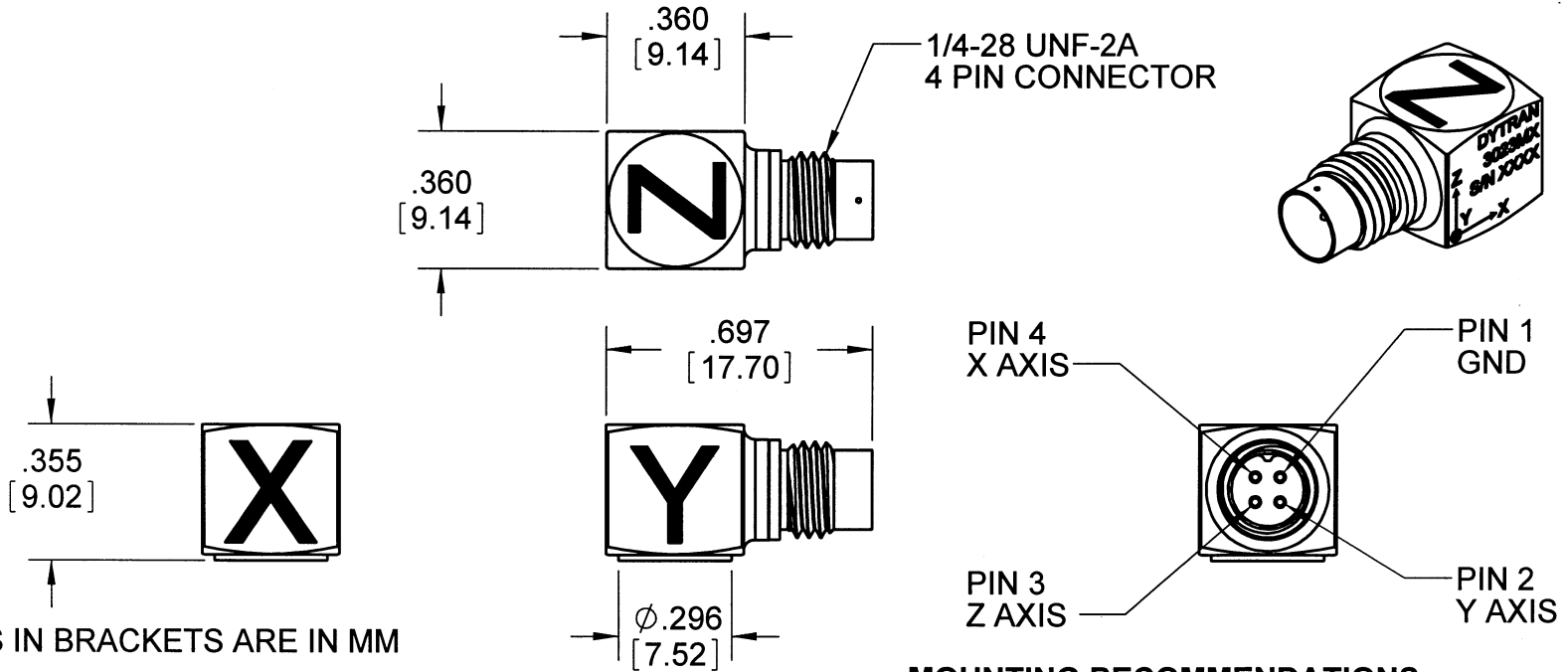


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

| REV | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|-----|------|-----------------|----------|------------|------------|
| A | 5799 | INITIAL RELEASE | 02/19/09 | <i>JLS</i> | <i>AWs</i> |



5. DIMENSIONS IN BRACKETS ARE IN MM
4. SENSITIVITY: 10mV/g
3. HOUSING/CONNECTOR MATERIAL: TITANIUM
2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT
1. WEIGHT 3.0 GRAMS

MOUNTING RECOMMENDATIONS
 PREPARE A SURFACE AT LEAST .300 BY .300. SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .0001 TIR. USE ONE DROP OF CYANOACRYLATE TO MOUNT THE ACCELEROMETER.

NOTES

| | | | | | | | | | | | | | | | | | | | | | |
|---|------------|--|--|---|--|-------------------------------------|---|----------|-----|------------|----------------|-----|------------|----------------|-----|--|--|------------------|---------------------------|--------------------------------|-----------------|
| 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. | | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX ± .010 ± 1° .XXX ± .005 | | CONTRACT NO. | | <p>MASTER ONLY IF IN RED</p> | | | | | | | | | | | | | | | |
| APPLICATION THIRD ANGLE PROJECTION USA | | MATERIAL | | APPROVALS DATE | | | TITLE: OUTLINE/INSTALLATION DRAWING DRAWING 3023M27 | | | | | | | | | | | | | | |
| 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 | | FINISH | | <table border="1"> <tr> <td>ORIG</td> <td>JLS</td> <td>02/19/09</td> </tr> <tr> <td>CHK</td> <td><i>JLS</i></td> <td><i>2/19/09</i></td> </tr> <tr> <td>APP</td> <td><i>AWs</i></td> <td><i>2/20/09</i></td> </tr> <tr> <td>APP</td> <td></td> <td></td> </tr> </table> | | ORIG | JLS | 02/19/09 | CHK | <i>JLS</i> | <i>2/19/09</i> | APP | <i>AWs</i> | <i>2/20/09</i> | APP | | | SIZE A | CAGE CODE 2W033 | DWG. NO. 127-3023M27 | REV A |
| ORIG | JLS | 02/19/09 | | | | | | | | | | | | | | | | | | | |
| CHK | <i>JLS</i> | <i>2/19/09</i> | | | | | | | | | | | | | | | | | | | |
| APP | <i>AWs</i> | <i>2/20/09</i> | | | | | | | | | | | | | | | | | | | |
| APP | | | | | | | | | | | | | | | | | | | | | |
| DO NOT SCALE DRAWING | | SCALE: 1:1 | | SOLIDWORKS | | SHEET 1 OF 1 | | | | | | | | | | | | | | | |

| | | |
|---------------------------------------|--------------------------------------|------------------------------------|
| MODEL NUMBER 3023M27 | PERFORMANCE SPECIFICATION | DOC NO. PS3023M27 |
| | ACCELEROMETER, TRIAXIAL, IEPE | REV A,ECN5869, 03/27/09 |



Actual Size

- HIGH TEMPERATURE
- HERMETICALLY SEALED
- MINIATURE SIZE

PHYSICAL

Weight
Mounting
Connector [1]
Material, Housing / Connector

| ENGLISH | | SI | |
|----------|----|----------|-------|
| 0.105 | oz | 3.0 | grams |
| Adhesive | | Adhesive | |
| 4-pin | | 4-pin | |
| Titanium | | Titanium | |

PERFORMANCE

Sensitivity, -10 + 15% [2]
Range F.S. (each axis)
Frequency Response, -5 /+15%
Element Natural Frequency
Equivalent Electrical Noise
Linearity [3]
Transverse Sensitivity Max
Signal Polarity

| 10 | mV/g | 1.02 | mV/m/s^2 |
|-------------|-------|-------------|-----------|
| ±500 | g | 4900.00 | m/s^2 |
| 1.2 to 5000 | Hz | 1.2 to 5000 | Hz |
| 30 | kHz | 30 | kHz |
| 0.007 | grms | 0.0686 | m/s^2 rms |
| 1 | %F.S. | 1 | %F.S. |
| 6 | % | 6 | % |
| [5] | | [5] | |

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedance, Typ.
Output Bias Voltage
Discharge Time Constant
Ground Isolation

| 2 to 20 | mA | 2 to 20 | mA |
|-------------|-----|-------------|-----|
| +18 to +30 | VDC | +18 to +30 | VDC |
| 100 | Ω | 100 | Ω |
| 8 to 10 | VDC | 8 to 10 | VDC |
| 0.4 to 0.5 | sec | 0.4 to 0.5 | sec |
| Case Ground | | Case Ground | |

ENVIRONMENTAL

Maximum Shock
Maximum Vibration
Temperature Range
Environmental Seal
Coefficient of Thermal Sensitivity

| 5000 | g pk | 49050 | m/s^2 |
|-------------|--------|-------------|--------|
| ±600 | g pk | ±5880 | m/s^2 |
| -60 to +250 | °F | -51 to +121 | °C |
| Hermetic | | Hermetic | |
| 0.03 | % / °F | 0.06 | % / °C |

This family also includes:

| Model | Sensitivity (mV/g) | Range (Gpeak) | Resolution (grms) | Oper. Temp(°F) | TC(sec.) |
|--------|--------------------|---------------|-------------------|----------------|------------|
| 3023A5 | 1 | 5000 | 0.08 | 250 | 0.4 to 0.5 |
| | | | | | |
| | | | | | |

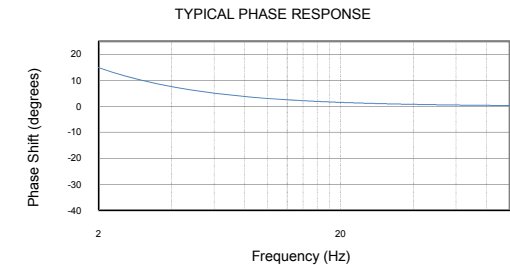
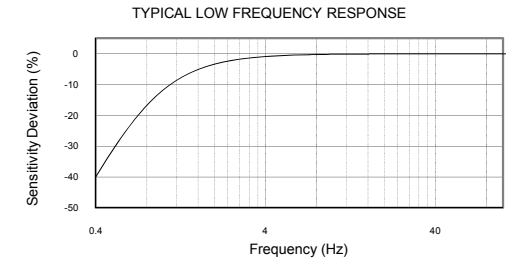
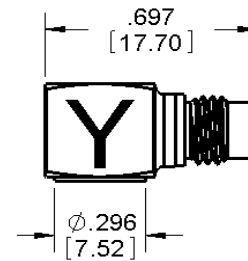
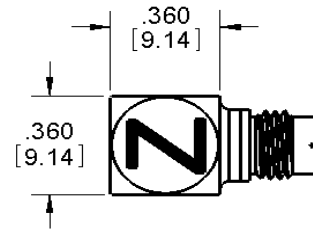
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025)
- 2) Model 6200 Mounting Stud, Qty 1.

Notes:

- [1] Connector mates with Dytran cable assy. Model 6811AXX. (xx = length in feet)
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2
- [3] Measured using zero-based best straight-line method, % of F.S. or any lesser range.
- [4] Power only with Dytran 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 destroyed.
- [5] Positive for motion in direction of arrows on housing.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023M27 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880
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