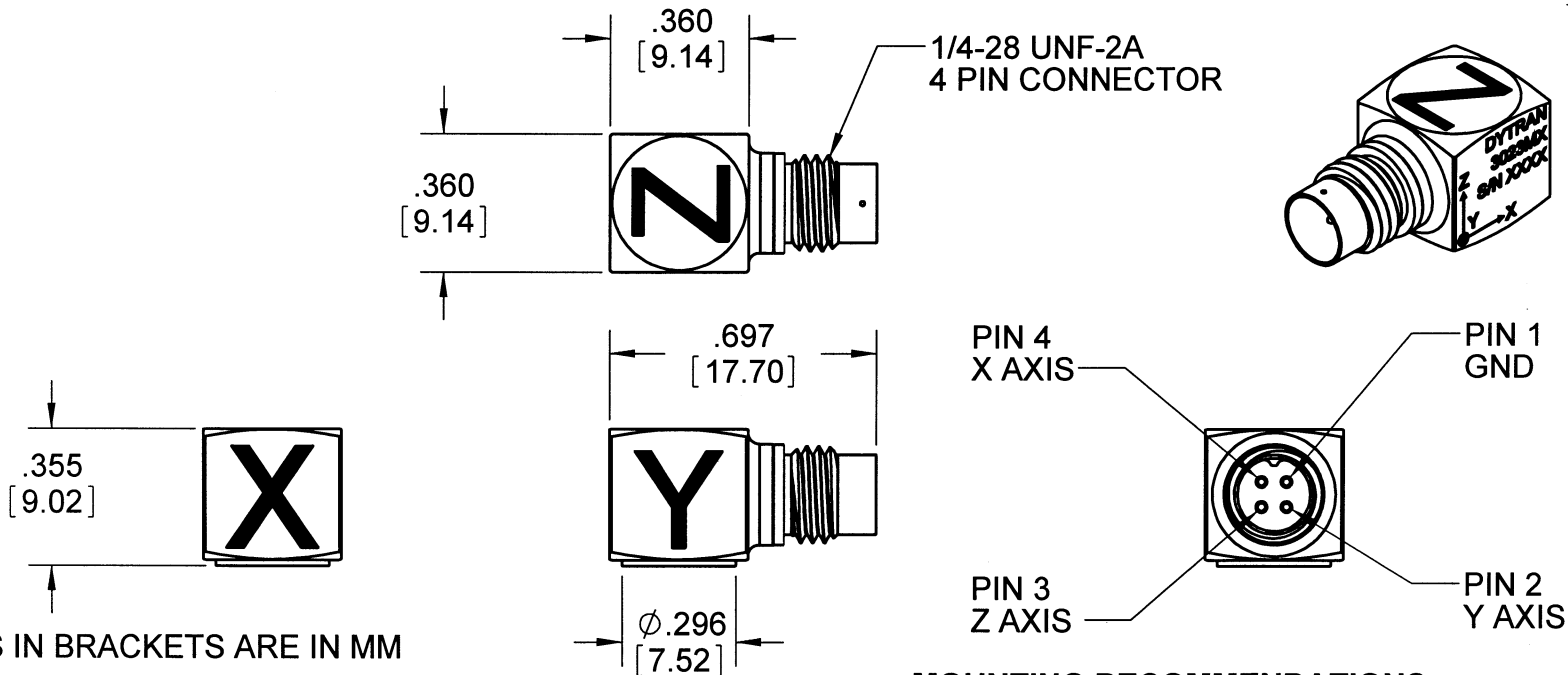


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REVISIONS

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

APPLICATION

THIRD ANGLE PROJECTION USA

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

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

DECIMALS	ANGLES
.XX ± .010	± 1°
.XXX ± .005	

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	JLS	02/19/09
CHK	<i>JLS</i>	2/19/09
APP	<i>AWs</i>	2/20/09
APP		

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE:
**OUTLINE/INSTALLATION DRAWING
 DRAWING 3023M27**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3023M27	A

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

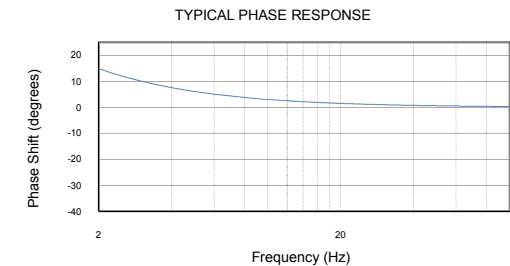
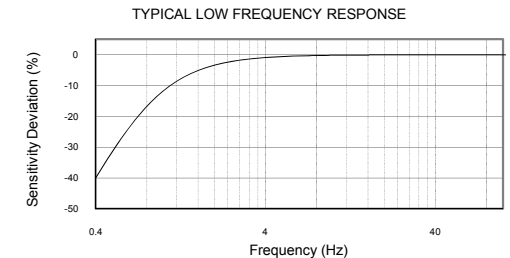
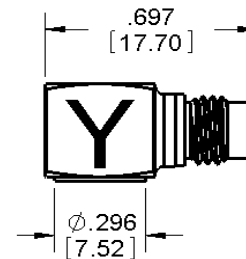
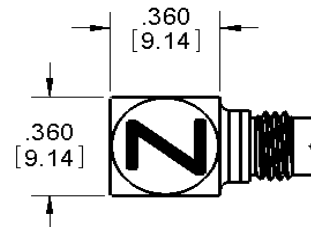
Please, refer to the performance specifications of the products in this family for detailed description

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.



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