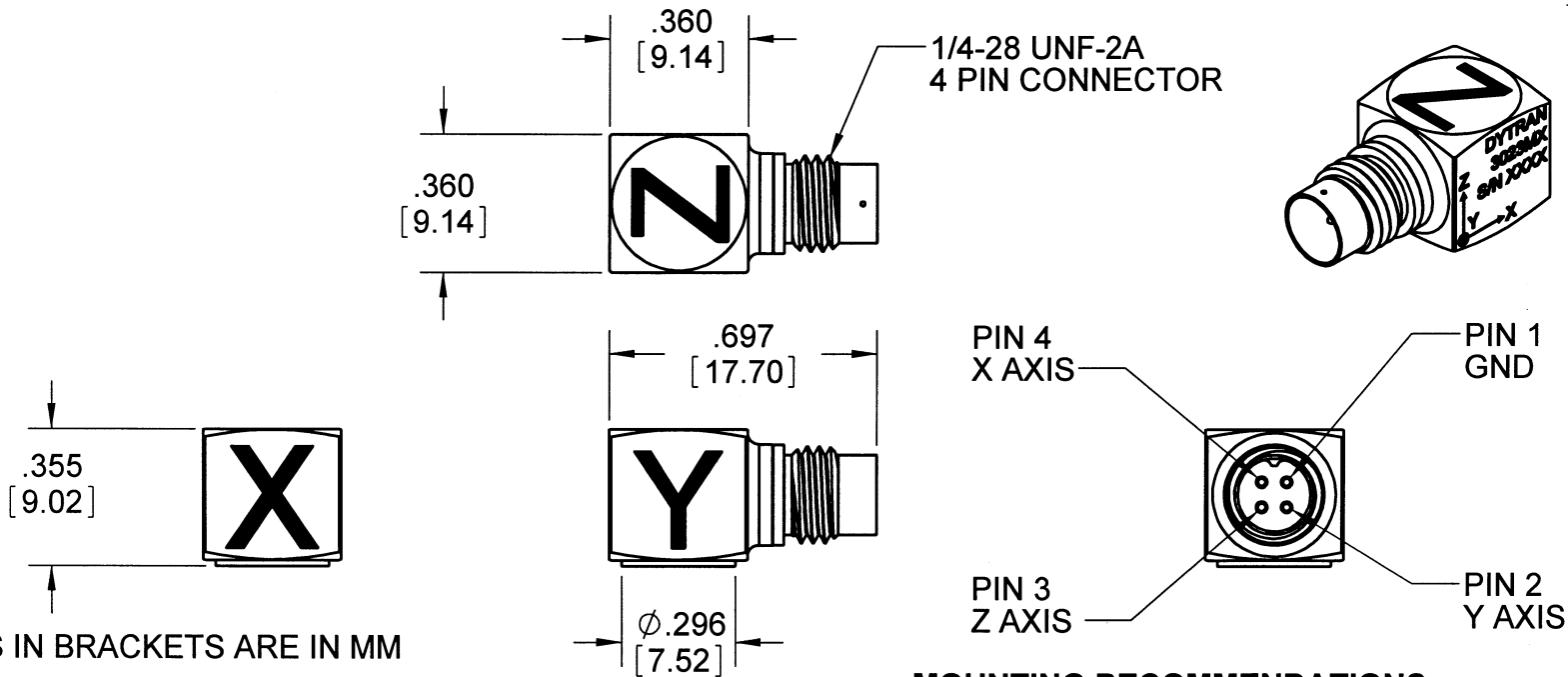


**PROPRIETARY AND CONFIDENTIAL**

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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><b>MASTER ONLY IF IN RED</b></p>
APPLICATION THIRD ANGLE PROJECTION USA		MATERIAL		APPROVALS      DATE		
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		ORIG      JLS      02/19/09		SIZE      CAGE CODE      DWG. NO.      REV
DO NOT SCALE DRAWING		APP <i>AWs</i> 2/20/09		APP <i>AWs</i> 2/20/09		<b>A</b> <b>2W033</b> <b>127-3023M27</b> <b>A</b>
				SCALE: 1:1		SOLIDWORKS      SHEET 1 OF 1

<b>MODEL NUMBER</b> <b>3023M27</b>	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO.</b> <b>PS3023M27</b>
	<b>ACCELEROMETER, TRIAXIAL, IEPE</b>	REV C, ECN 8232, 01/11/12



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

ENGLISH		SI	
10	mV/g	1.02	mV/m/s <sup>2</sup>
±500	g	± 4900	m/s <sup>2</sup>
1.2 to 5000	Hz	1.2 to 5000	Hz
30	kHz	30	kHz
0.007	grms	0.0686	m/s <sup>2</sup> 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

ENGLISH		SI	
2 to 20	mA	2 to 20	mA
+18 to +30	VDC	+18 to +30	VDC
100	Ω	100	Ω
+7 to +9	VDC	+7 to +9	VDC
0.4 to 0.7	sec	0.4 to 0.7	sec
Case Ground		Case Ground	

**ENVIRONMENTAL**

Maximum Shock  
Maximum Vibration  
Temperature Range  
Environmental Seal [6]  
Coefficient of Thermal Sensitivity

ENGLISH		SI	
5000	g pk	49050	m/s <sup>2</sup>
±600	g pk	±5880	m/s <sup>2</sup>
-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

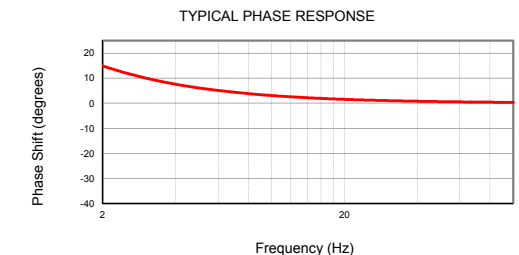
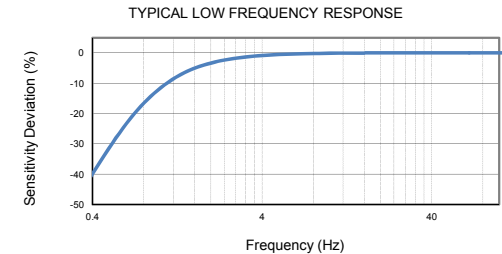
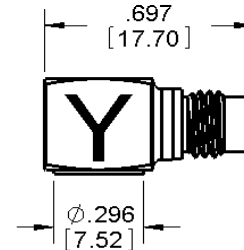
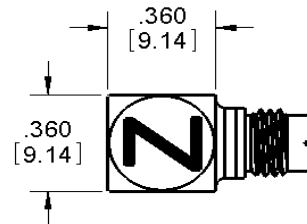
Please, refer to the performance specifications of the products in this family for detailed description

**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.
- [6] Low outgassing, use with Dytran cable assembly model 6951AXX (XX=Length in feet)



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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