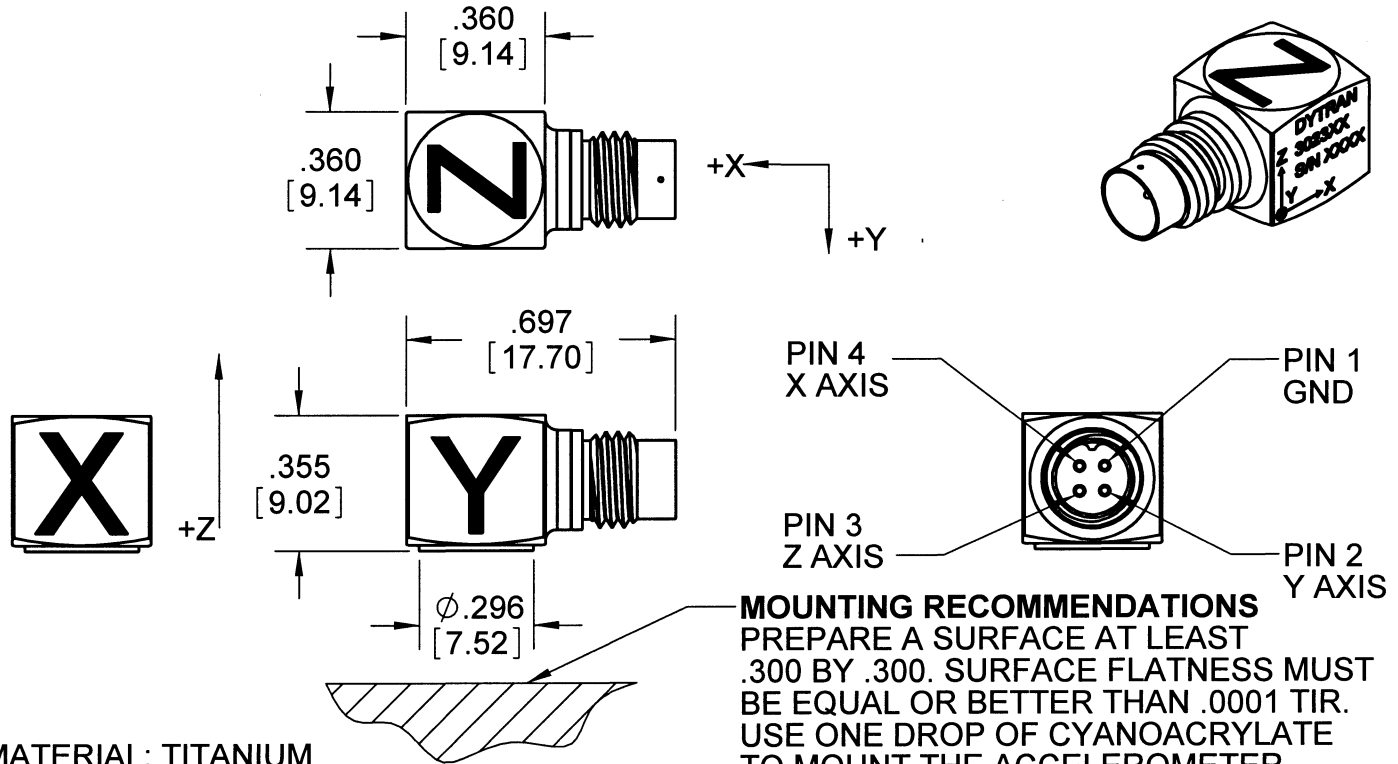


**PROPRIETARY AND CONFIDENTIAL**

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**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6096	INITIAL RELEASE	JS 07/22/09	<i>[Signature]</i>	AUS



5. MAX TEMP: 325° F
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

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.
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
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.		

CONTRACT NO.	
MATERIAL	APPROVALS
FINISH	DATE
DO NOT SCALE DRAWING	ORIG    JS    07/21/09 CHK <i>[Signature]</i> APP <i>[Signature]</i> APP <i>[Signature]</i>

Chatsworth, CA

**MASTER ONLY IF IN RED**

TITLE: **OUTLINE/INSTALLATION DRAWING 3023M30**

SIZE	CAGE CODE	DWG. NO.	REV
<b>A</b>	<b>2W033</b>	<b>127-3023M30</b>	<b>A</b>
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

<b>MODEL NUMBER</b> <b>3023M30</b>	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO.</b> <b>PS3023M30</b>
<b>ACCELEROMETER, TRIAXIAL, IEPE</b>		REV D, ECN 13417,04/20/17



- **HIGH TEMPERATURE**
- **HERMETICALLY SEALED**
- **MINIATURE SIZE**

**PHYSICAL**

Weight  
Mounting  
Connector [1]  
Material, Housing / Connector

ENGLISH		SI	
0.11	oz	3.0	grams
Adhesive		Adhesive	
4-pin		4-pin	
Titanium		Titanium	

**PERFORMANCE**

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

	ENGLISH	SI	
Sensitivity	10	1	mV/m/s <sup>2</sup>
Range F.S.	±500	±4905	m/s <sup>2</sup>
Frequency Response	1.5 to 10,000	1.5 to 10,000	Hz
Element Natural Frequency	30	30	kHz
Equivalent Electrical Noise	0.007	0.069	m/s <sup>2</sup> rms
Spectral Noise	1.25Hz: 0.003	0.029	m/s <sup>2</sup> rms/v(Hz)
	10Hz: 0.001	0.010	m/s <sup>2</sup> rms/v(Hz)
	100Hz: 0.0002	0.0020	m/s <sup>2</sup> rms/v(Hz)
	1000Hz: 0.00005	0.00049	m/s <sup>2</sup> rms/v(Hz)
	10000Hz: 0.00004	0.00039	m/s <sup>2</sup> rms/v(Hz)
Linearity	1	1	%F.S.
Transverse Sensitivity Max	6	6	%
Signal Polarity	[5]	[5]	

**ENVIRONMENTAL**

Maximum Shock  
Maximum Vibration  
Temperature Range  
Environmental Seal

5000	g pk	49050	m/s <sup>2</sup>
±600	g pk	±5880	m/s <sup>2</sup>
-60 to +325	°F	-51 to +163	°C
Hermetic		Hermetic	

**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
9 to 11	VDC	9 to 11	VDC
0.3 to 1.0	sec	0.3 to 1.0	sec
Case Ground		Case Ground	

**This family also includes:**

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (grms)	Oper. Temp(°F)	TC(sec.)

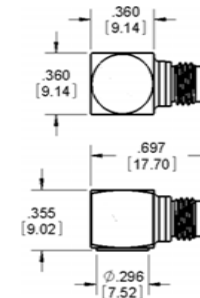
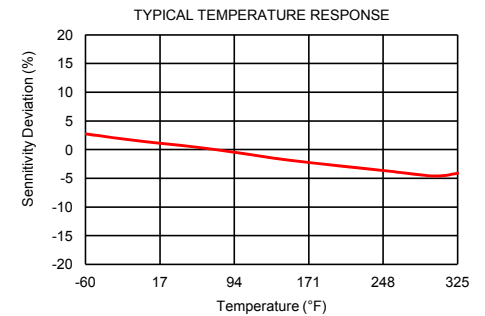
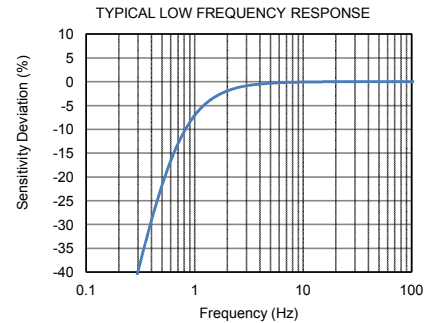
Please, refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited Calibration Certificate (ISO 17025)

**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 127-3023M30 for more information.



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