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		REVISIONS			
REV.	ECN	DESCRIPTION	BY/DATE	СНК	APPR
В	13153	SEE ECN	JB 11/30/16	Em	A5

.32

[8]

MOUNTING SURFACE

MODEL 6200 MOUNTING STUD.

10-32 UNF-2B X ▼.12

**PROVIDED** 

1/4-28 4-PIN CONNECTOR 5

PIN 4 X-AXIS

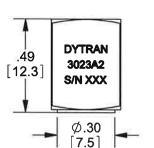
(1) OUTPUT-

PIN 3 Z-AXIS (3) OUTPUT

.36 9.1

17.7

.36 [9.1



[7.5]

MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE

4. SENSITIVITY: 10mV/g NOMINAL

3. WEIGHT: 4 GRAMS APPROX.

(XX= LENGTH IN FEET)

2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT

1. MATERIAL: TITANIUM ALLOY

NEXT ASSY

APPLICATION

THIRD ANGLE PROJECTION

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED:

COUNTERSINK INTERNAL THDS

CHAM EXT THDS 45° TO MINOR DIA.

THD LENGTHS AND DEPTHS ARE FOR

DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES.

MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4.

ABBREVIATIONS PER MIL-STD-12.

INTERPRET DIM & TOL PER

ASME Y14.5M - 1994.

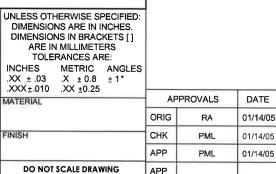
REMOVE BURRS.

90° TO MAJOR DIA.

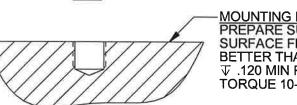
THDS PER MIL-S-7742.

TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.

MIN FULL THOS.



CONTRACT NO.



MOUNTING RECOMMENDATIONS:
PREPARE SURFACE AT LEAST Ø.30 [7.5]
SURFACE FLATNESS MUST BE EQUAL OR
BETTER THAN .001 TIR. TAP 10-32 UNF-2B

▼ .120 MIN RECOMMENDED MOUNTING
TORQUE 10-12 LB-IN.

PIN 2 Y-AXIS

(2) OUTPUT

PIN 1 GND

RETURN COMMON



OUTLINE/INSTALLATION DRAWING, 3023A2

SIZE	A 2W033		DWG. NO. 127-3023A2		REV B
SCALE: 2:1			SOLIDWORKS	SHEET 1 OF	<del>-</del> 1

USED ON

 Model Number
 DOC NO

 3023A2
 PERFORMANCE SPECIFICATIONS
 PS3023A2

 TRI AXIAL IEPE ACCELEROMETER
 REV F, ECN 14272, 06/18/18

SI



- STUD MOUNT
- EXCELLENT LINEARITY

**ENGLISH** 

ULTRA LOW WEIGHT

PHYSICAL			<u>.</u>		
Weight, Max.		0.14	oz	4.0	grams
Connector		4- PIN		4- PIN	
Mounting Provision		10-32 Tapped Hole		10-32 Tapped Hole	
Material, Housing/Connector		Titanium Alloy		Titanium Alloy	
Sensing Element		Quartz		Quartz	
Element Style		Shear		Shear	]
PERFORMANCE					_
Sensitivity, -10 / +15% [1]		10	mV/g	1	mV/m/s <sup>2</sup>
Range for ± 5 Volts Output		±500	g	±4903	m/s <sup>2</sup>
Frequency Response	±5%	1.5 to 4000	Hz	1.5 to 4000	Hz
	-5 / +15%	1.5 to 10000	Hz	1.5 to 10000	Hz
Resonant Frequency		> 40	kHz	> 40	kHz
Broad Band Resolution [6]		0.007	Grms	0.069	m/s <sup>2</sup> rms
Spectral Noise	1.25Hz	0.003	Grms/√(Hz)	0.029	m/s2 rms/v(Hz)
	10Hz	0.001	Grms/v(Hz)	0.0098	m/s <sup>2</sup> rms/v(Hz)
	100Hz	0.0002	Grms/v(Hz)	0.00196	m/s <sup>2</sup> rms/v(Hz)
	1000Hz	0.00005	Grms/v(Hz)	0.00049	m/s <sup>2</sup> rms/v(Hz)
	10000Hz	0.00004	Grms/v(Hz)	0.00039	m/s <sup>2</sup> rms/v(Hz)
Linearity [2]		1	% F.S.	1	% F.S.
Maximum Transverse Sensitivity	,	6	%	6	%
Strain Sensitivity @ 250με		0.006	g/με	0.06	m/s²/με
Signal Polarity		[5]		[5]	]
ENVIRONMENTAL					
Maximum Vibration		±600	Gpeak	±5884	m/s² peak
Maximum Shock		5000	Gpeak	49033	m/s² peak
Temperature Range		-60 to +250	°F	-51 to +121	°C
Seal		Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gaus	SS	0.00005	g/Gauss	4.905	m/s²/T
ELECTRICAL					
Supply Current Range [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		18 to 30	Volts	18 to 30	Volts
Output Impedance,Typ		100	Ω	100	Ω
Bias Voltage		7 to 11	VDC	7 to 11	VDC
Discharge Time Constant		0.3 - 1.5	Sec	0.3 - 1.5	Sec

Case Grounded

This family also includes:				
Model	Sensitivity (mV/g)	Frequency Response (Hz)	Mounting	Operating Temp (°F)
3023A	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A1	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
3023A3	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A4	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
3023A5	1 (±5%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A6	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250
3023A9	1 (±10%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250

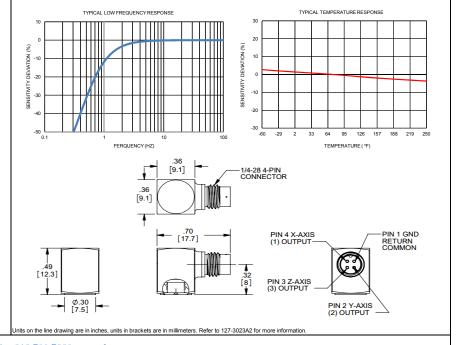
Refer to the performance specifications of the products in this family for detailed description

## Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 Mounting Stud, Quantity 1

## Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [5] Positive for motion in direction of arrows on housing.
- [6] Typical. Not to exceed .010 Grms [.10 m/s<sup>2</sup>].





Electrical Isolation

Case Grounded

GΩ,min

 $G\Omega$ ,min