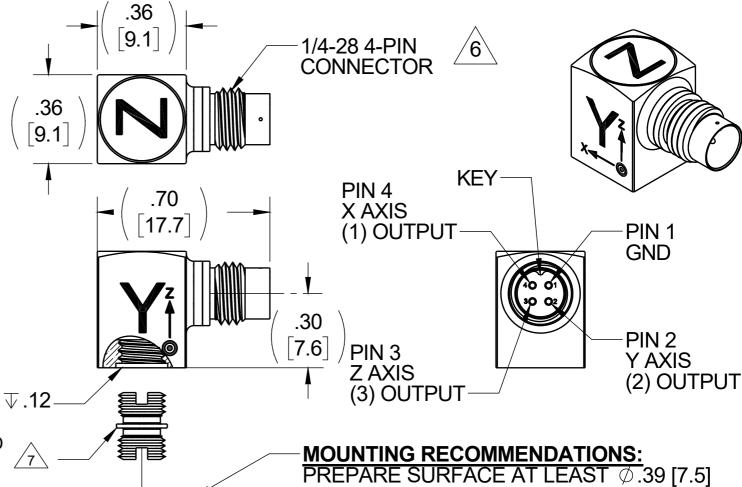
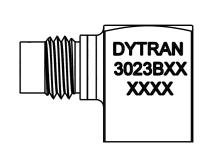
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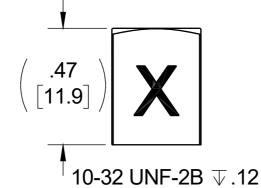
VARIATION TABLE					
MODEL NO.	SENSITIVITY	TEDS			
3023B7	1 mV/g	NO			
3023B8	5 mV/g	NO			
3023B9	10 mV/g	NO			
3023B7T	1 mV/g	YES			
3023B8T	5 mV/g	YES			
3023B9T	10 mV/g	YES			

REVISIONS						
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR	
В	16747	ZONE 3/B: IS: .21, WAS: .14	AS 06/01/22	JB	AM	



FLAT TO .001 TIR.





MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX=LENGTH IN FEET)

- 5. OPERATIONAL TEMPÉRATURE: RANGE -60° TO +325°F
- 4. SENSITIVITY: SEE CHART.
- 3. WEIGHT: 4 GRAMS MAX.

NEXT ASSY

- 2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
- 1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED.

3023B7

3023B8

3023B9

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.
DIMENSIONS IN BRACKETS []
ARE IN MILLIMETERS
TOLERANCES ARE:
INCHES METRIC ANGLES

CONTRACT NO.

APPROVALS

NDC

ΕP

RT

FINISH

CHK

APP

DO NOT SCALE DRAWING

APP

INSTRUMENTS, INC

Chatsworth, CA

TAP 10-32 UNF-2B $\sqrt{\ .140}$ [3.6] MIN.

MOUNTING TORQUE: 10-12 Lb-in.

TITLE:

DATE

NDC3/11/1

05/02/16

05/04/16

OUTLINE/INSTALLATION DRAWING, MODEL 3023B SERIES

SIZE CAGE CODE 2W033

DWG. NO. 127-3023B7

SOLIDWORKS SHEET 1 OF 1

REV

B

THIRD ANGLE PROJECTION USA

APPLICATION

SCALE: NONE

3023B7T

3023B87

3023B9T

USED ON

MODEL NUMBER 3023B7T	PERFORMANCE SPECIFICATION	DOC NO. PS3023B7T
	ACCELEROMETER, TRIAXIAL, IEPE	REV D. ECN 17104, 03/29/23



- HIGH TEMPERATURE
- HERMETICALLY SEALED
- MINIATURE SIZE
- TEDS FEATURE

X					
		ENGLISH		SI	
PHYSICAL			•		J
Weight, Max.		0.14	oz	4.0	grams
Mounting		10-32 Tapped Hole	1	10-32 Tapped Hole	-
Connector [1]		4-pin		4-pin	
Material, Housing / Connector		Titanium		Titanium	
PERFORMANCE					
Sensitivity, -10% / +15% [5]		1	mV/g	0.10	mV/m/s ²
Range F.S. (each axis)		±5000	g pk	±49050	m/s ² pk
Frequency Response, ±5%		2.43 to 4000	Hz	2.43 to 4000	Hz
,±15%		1.29 to 10000	Hz	1.29 to 10000	Hz
Element Natural Frequency		25	kHz	25	kHz
Equivalent Electrical Noise		0.1	g RMS	0.981	m/s² RMS
Spectral Noise	1.25Hz	6800	μg RMS/√(Hz)	66708	μm/s² RMS/√(Hz)
	10Hz	6800	μg RMS/√(Hz)	66708	µm/s² RMS/√(Hz)
	100Hz	1200	μg RMS/√(Hz)	11772	μm/s² RMS/√(Hz)
	1000Hz	315	μg RMS/√(Hz)	3090	μm/s² RMS/√(Hz)
	10000Hz	220	μg RMS/√(Hz)	2158	μm/s² RMS/√(Hz)
Linearity [2]		±1	% F.S.	±1	% F.S.
Transverse Sensitivity, Max.		6	%	6	%
Signal Polarity		[4]		[4]	
ELECTRICAL					
Supply Current Range [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.		100	Ω	100	Ω
Output Bias Voltage		7 to 12	VDC	7 to 12	VDC
Discharge Time Constant		0.2 - 2.0	Sec	0.2 - 2.0	Sec
Magnetic Sens. at 100 Gauss		0.00005	g/Gauss	4.905	m/s²/T
Strain Sensitivity @ 250με		0.008	g/με	0.08	m/s²/με
Ground Isolation		Case Ground	9, 1	Case Ground	
ENVIRONMENTAL					
		.10000	n -1:	.00400	m/s² pk
Maximum Shock		±10000	g pk	±98100	
Temperature Range		-60 to +325	°F	-51 to +162	°C
TEDS Operating Temp.		-40 to +185	°F	-40 to +85	°C
Environmental Seal		Hermetic		Hermetic	
TEDS		IEEE 1451.4		IEEE 1451.4	l

This family also includes:						
Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp (°F)	TC (Sec)	
3023B7	1	5000	0.07	-60 to +325	0.2 to 2.0	
3023B8	5	1000	0.014	-60 to +325	0.2 to 2.0	
3023B9	10	500	0.007	-60 to +325	0.2 to 2.0	
3023B8T	5	1000	0.014	-60 to +325	0.2 to 2.0	

0.007

-60 to +325

0.2 to 2.0

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

Supplied Accessories:

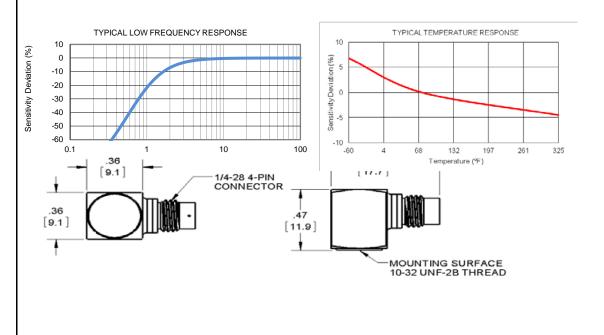
3023B9T

1) Accredited Calibration Certificate (ISO 17025)

10

2) Model 6200 Mounting Stud, Qty 1.

- [1] Connector mates with Dytran's cable assy. model 6811AXX or 6824AXX. (xx = length in feet)
- [2] Measured using zero-based best 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] Positive for motion in direction of arrows on housing.
- [5] All specifications are at room temperature unless otherwise specified.
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023B7 for more information.

