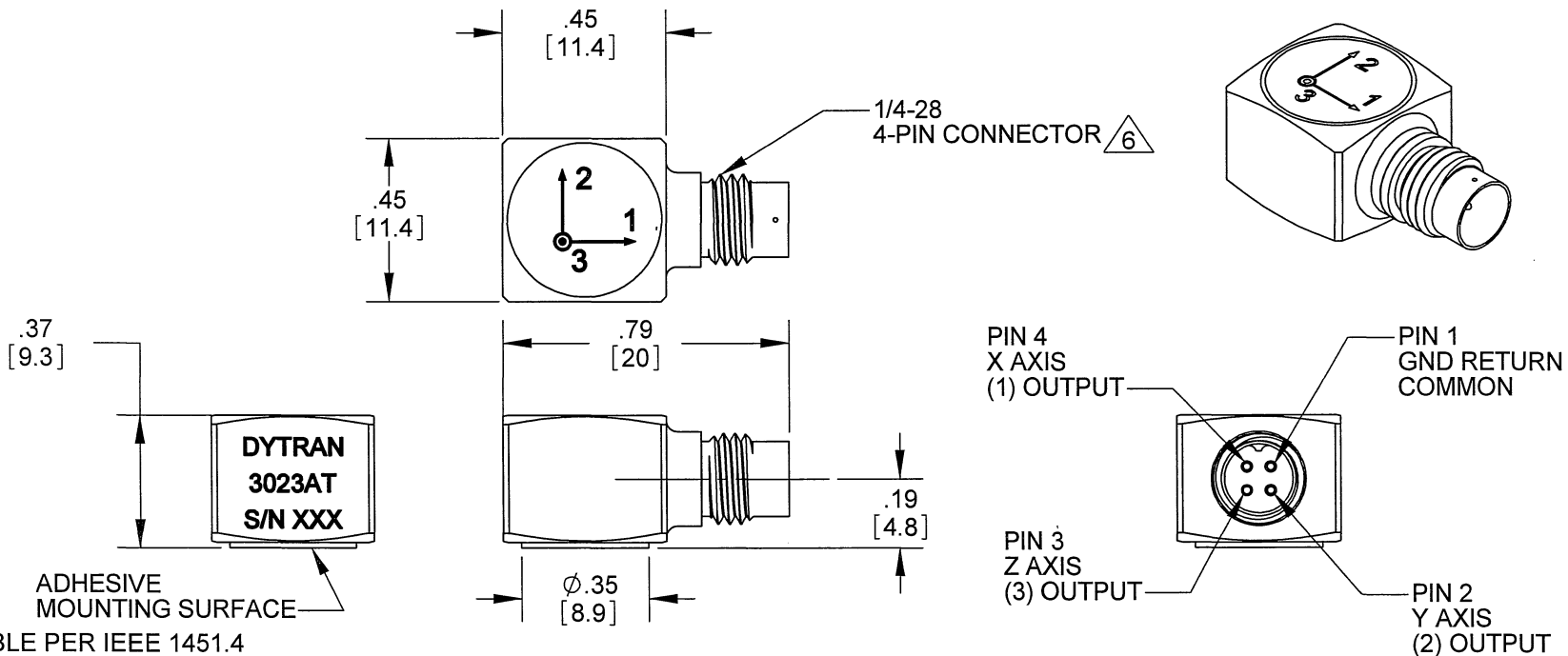


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REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6250	ADDED NOTE 5, 6, 7 AND REFORMATTED	RA, 11/23/09		



- 7. TEDS COMPATABLE PER IEEE 1451.4
- 6. MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX=LENGTH IN FEET)
- 5. OPERATIONAL TEMPERATURE: -60° TO +250°F
- 4. SENSITIVITY: 10mV/G NOM.
- 3. WEIGHT: 4.5 GRAMS NOM
- 2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
- 1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED

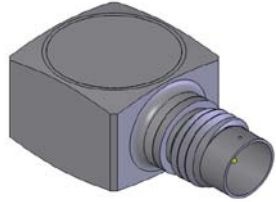
UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .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. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ± .03 .X ± 0.8 ± 1° .XXX ± 0.10 .XX ± 0.25		CONTRACT NO.		MASTER ONLY IF IN RED Chatsworth, CA	
USED ON	NEXT ASSY	MATERIAL		APPROVALS		DATE	
APPLICATION		FINISH		ORIG	PML	11/28/05	
THIRD ANGLE PROJECTION USA		DO NOT SCALE DRAWING		CHK	PML	11/28/05	
				APP	PML	02/04/06	
				APP			
TITLE:				OUTLINE DRAWING, 3023AT TRIAXIAL ACCELEROMETER, TEDS			
SIZE		CAGE CODE		DWG. NO.		REV	
A		2W033		127-3023AT		A	
SCALE: 4:1				SOLIDWORKS		SHEET 1 OF 1	

172-0081, REV C

Model Number 3023AT	PERFORMANCE SPECIFICATIONS	DOC NO PS3023AT
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TRI AXIAL IEPE ACCELEROMETER

REV A, ECN-11041, 05/28/2014



- MINATURE SIZE
- EXCELLENT LINEARITY
- ULTRA LOW WEIGHT
- TEDS FEATURE

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Mounting	Operating Temp (°F)
3023A1T	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 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)

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.

PHYSICAL

Weight, Max.
Connector
Mounting Provision
Material, Housing/Connector
Sensing Element
Element Style

ENGLISH		SI	
0.16	oz	4.5	grams
4-PIN		4-PIN	
Adhesive Mount		Adhesive Mount	
Titanium Alloy		Titanium Alloy	
Quartz		Quartz	
Shear		Shear	

PERFORMANCE

Sensitivity, -10 / +15 % [1]
Range for ± 5 Volts Output
Frequency Response ±5%
-5 / +15%
Resonant Frequency
Broad Band Resolution
Spectral Noise
1.25Hz
10Hz
100Hz
1000Hz
10000Hz
Linearity [2]
Maximum Transverse sensitivity
Strain Sensitivity @ 250µε

10	mV/g	1	mV/m/s ²
±500	g	±4903	m/s ²
1.5 to 5000	Hz	1.5 to 5000	Hz
1.5 to 10000	Hz	1.5 to 10000	Hz
> 40	kHz	> 40	kHz
0.007	Grms	0.069	m/s ² rms
0.003	µGrms/v(Hz)	0.029	µm/s ² rms/v(Hz)
0.001	µGrms/v(Hz)	0.0098	µm/s ² rms/v(Hz)
0.0002	µGrms/v(Hz)	0.00196	µm/s ² rms/v(Hz)
0.00005	µGrms/v(Hz)	0.00049	µm/s ² rms/v(Hz)
0.00004	µGrms/v(Hz)	0.00039	µm/s ² rms/v(Hz)
1	% F.S.	1	% F.S.
5	%	5	%
0.039	g/µε	0.38	m/s ² /µε

ENVIRONMENTAL

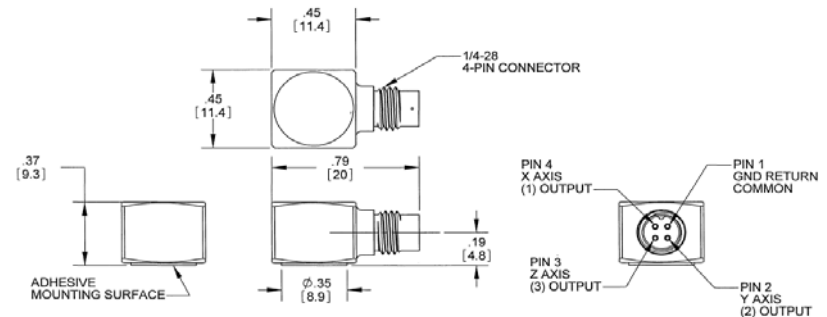
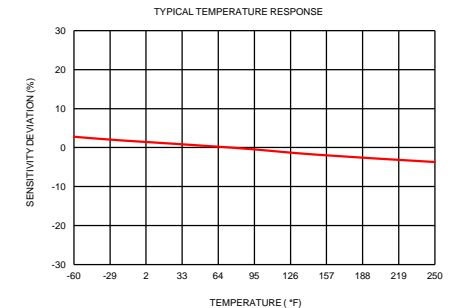
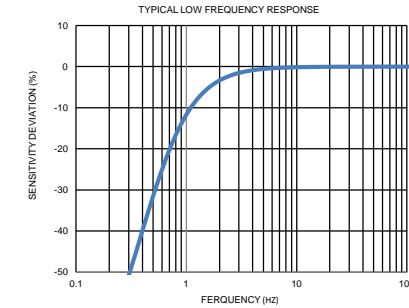
Maximum Vibration
Maximum Shock
Temperature Range
TEDS Operating Temperature
Seal

±600	Gpeak	±5884	m/s ² peak
5000	Gpeak	49033	m/s ² peak
-60 to +250	°F	-51 to +121	°C
-60 to +185	°F	-51 to +85	°C
Hermetic		Hermetic	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant
Electrical Isolation
TEDS Feature

2 to 20	mA	2 to 20	mA
18 to 30	Volts	18 to 30	Volts
100	Ω	100	Ω
9 to 11	VDC	9 to 11	VDC
0.3 to 1.5	Sec	0.3 to 1.5	Sec
Case Grounded	GΩ, min	Case Grounded	GΩ, min
IEEE 1451.4		IEEE 1451.4	



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



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