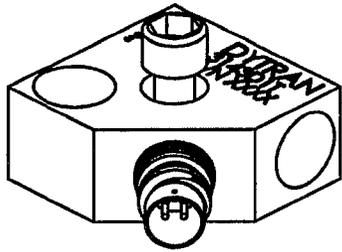


PROPRIETARY AND CONFIDENTIAL

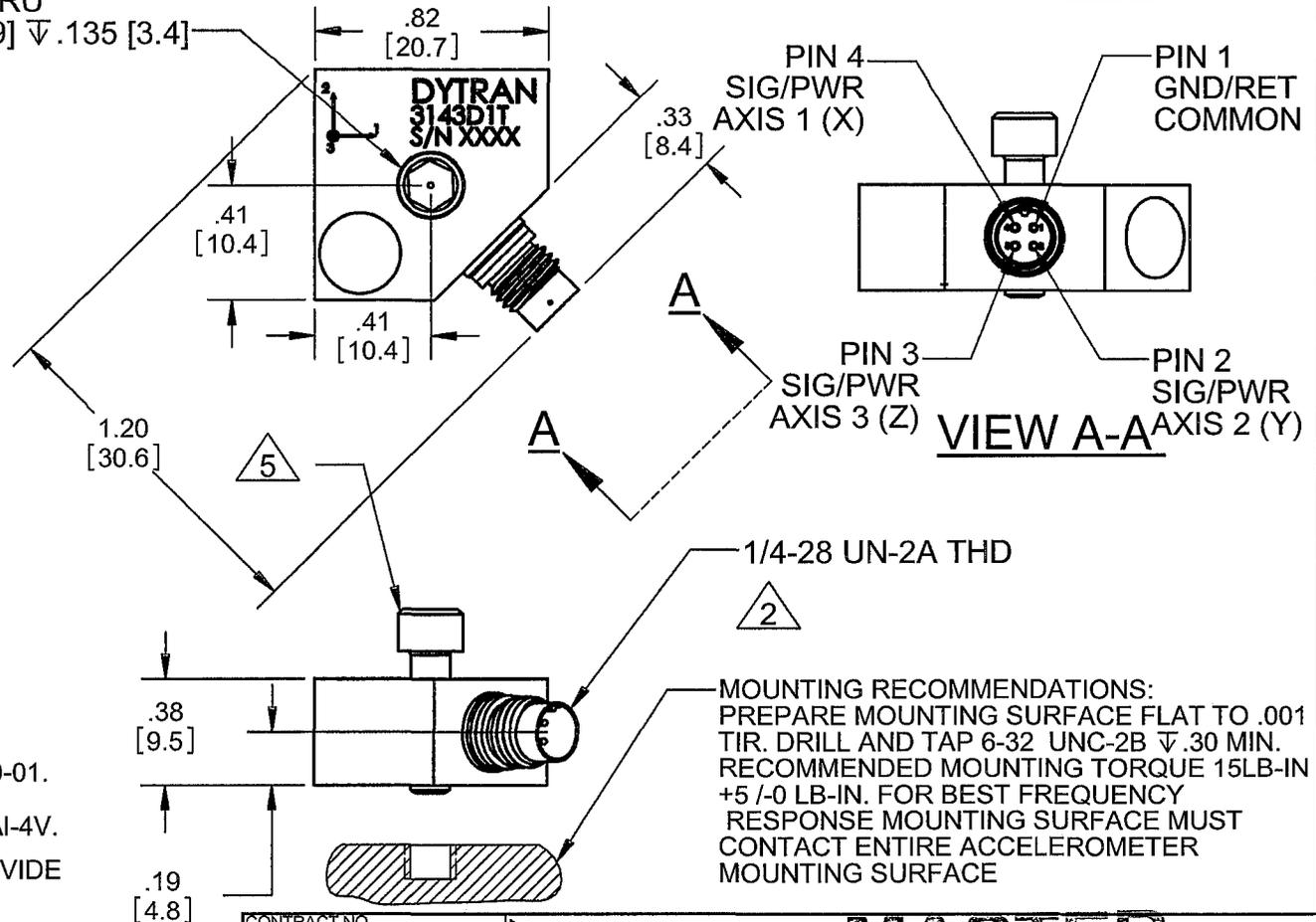
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	9900	SEE ECN	JS 05/10/13	AB	<i>[Signature]</i>



$\phi .14$ [3.6] THRU
 $\square \phi .23$ [5.9] $\nabla .135$ [3.4]



- 5 MODEL 6247A1, MOUNTING SCREW SUPPLIED.
- 4. WEIGHT: 15 GRAMS APPROX
- 3 MATING CONNECTOR DYTRAN P/N 120-0010-01.
- 2. HOUSING AND CONNECTOR MATERIAL TI-6AL-4V.
- 1. ARROWS INDICATE THE DIRECTION TO PROVIDE POSITIVE OUTPUT

MOUNTING RECOMMENDATIONS:
 PREPARE MOUNTING SURFACE FLAT TO .001 TIR. DRILL AND TAP 6-32 UNC-2B $\nabla .30$ MIN. RECOMMENDED MOUNTING TORQUE 15LB-IN +5/-0 LB-IN. FOR BEST FREQUENCY RESPONSE MOUNTING SURFACE MUST CONTACT ENTIRE ACCELEROMETER MOUNTING SURFACE

NOTES UNLESS OTHERWISE SPECIFIED

USED ON	NEXT ASSY	APPLICATION
THIRD ANGLE PROJECTION	USA	

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

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	JS	04/06/10
CHK	AB	05/10/13
APP	DV	05/10/13
APP		

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE INSTALLATION DRAWING, 3143D1T**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3143D1T	B

SCALE: NONE SOLIDWORKS SHEET 1 OF 1

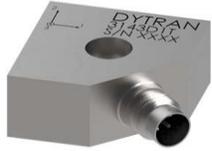
Model Number
3143D1T

PERFORMANCE SPECIFICATIONS

DOC NO
PS3143D1T

IEPE ACCELEROMETER

REV D, ECN 13573, 07/21/17



- HERMETICALLY SEALED
- EXCELLENT LINEARITY
- TEDS FEATURE

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

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

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screw Model 6247A1

Notes:

- [1] Radially Mounted, 4-pin connector. Mates with Dytran cable Model 6811A
- [2] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [3] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.

PHYSICAL

Weight
Connector [1] Type
Mounting Provision Thru Hole
Material, Housing/Connector
Sensing Element
Element Style

ENGLISH		SI	
0.53	oz	15	grams
4 - PIN		4 - PIN	
6-32 MOUNTING SCREW		6-32 MOUNTING SCREW	
TITANIUM		TITANIUM	
CERAMIC		CERAMIC	
PLANAR SHEAR		PLANAR SHEAR	

PERFORMANCE

Sensitivity, ±5% [2]
Range for ± 5 Volts Output
Frequency Response, ±5%
Resonant Frequency
Broad Band Resolution
Linearity [3]
Maximum Transverse sensitivity
Strain Sensitivity @ 250µε

100	mV/G	10	mV/m/s ²
50	G peak	491	m/s ²
0.4 to 3000	Hz	0.4 to 3000	Hz
> 25	kHz	> 25	kHz
0.0007	G rms	0.007	m/s ² rms
± 1	% F.S.	± 1	% F.S.
5	%	5	%
0.012	G/µε	0.12	m/s ² /µε

ENVIRONMENTAL

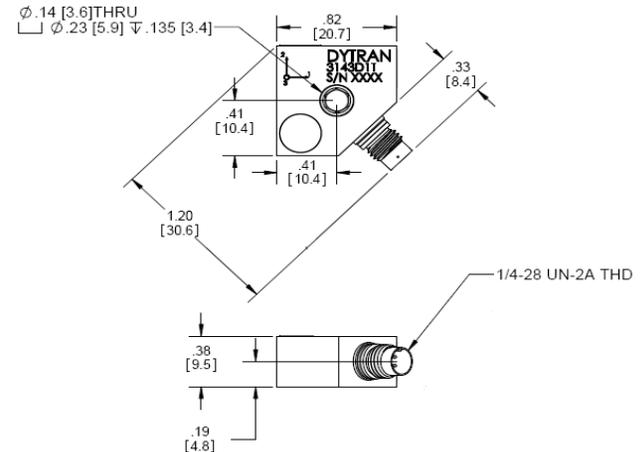
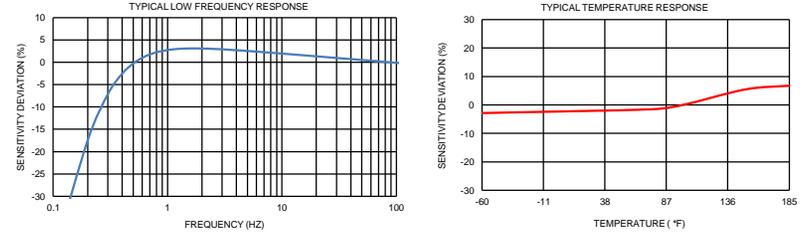
Maximum Vibration
Maximum Shock
Operating Temperature Range
TEDS Operating Range
Survival Temperature Range
Seal

600	G peak	5886	m/s ² peak
1500	G peak	14715	m/s ² peak
-60 to 185	°F	-51 to 85	°C
-40 to +185	°F	-40 to +85	°C
-100 to 225	°F	-73 to 107	°C
HERMETIC		HERMETIC	

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedence, 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
+11 to +13	VDC	+11 to +13	VDC
1 to 2	Sec	1 to 2	Sec
10	GΩ, min	10	GΩ, min
IEEE 1451.4		IEEE 1451.4	



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3143D1T for more information.



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