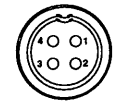
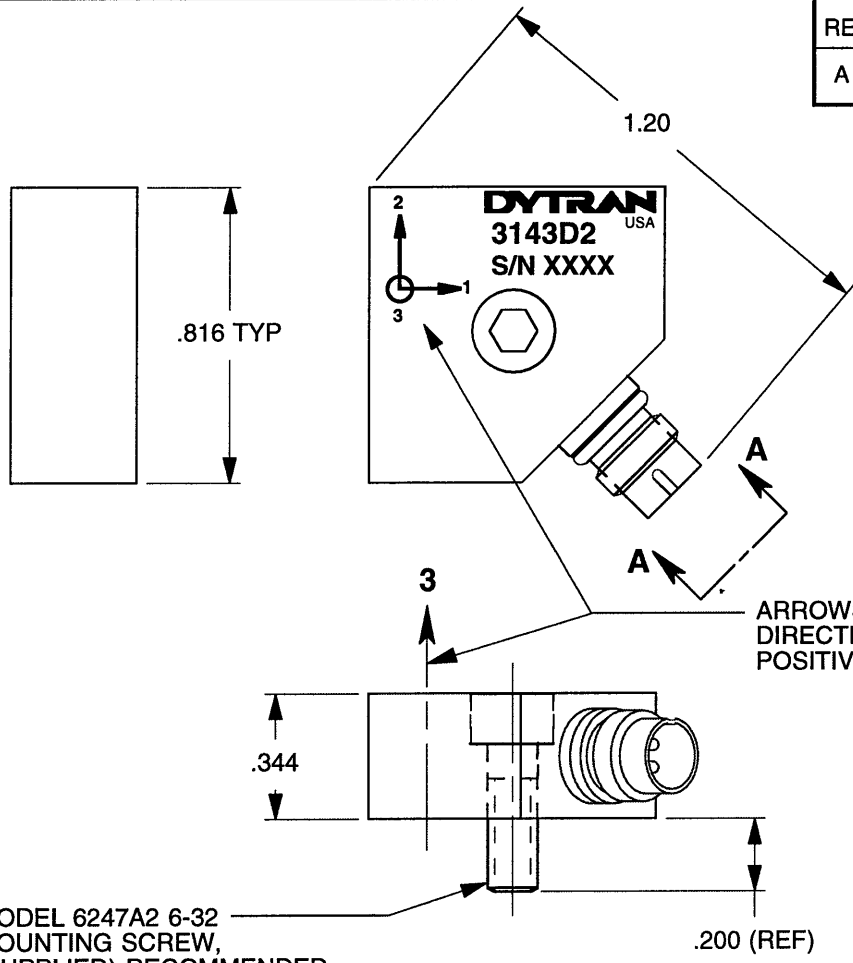


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5436	INITIAL RELEASE	RLA 8/29/08	DV	DV



VIEW A-A LOOKING INTO CONNECTOR WITH CABLE DISCONNECTED

**PINOUT**  
 PIN #1 GND RETURN, COMMON  
 PIN #2 SIG/PWR AXIS 2 (Y)  
 PIN #3 SIG/PWR AXIS 3 (Z)  
 PIN #4 SIG/PWR AXIS 1 (X)

ARROWS INDICATE SENSE AND DIRECTION OF ACCELERATION FOR POSITIVE-GOING OUTPUT SIGNALS

MOUNTING PORT PREPARATION: DRILL #36 (Ø .1065) X .270 DEEP TAP 6-32 UNC-2B X .22 DEEP, MIN.

MODEL 6247A2 6-32 MOUNTING SCREW, (SUPPLIED) RECOMMENDED MOUNTING TORQUE: 10-15 LB-INCHES

- RECOMMENDED CABLES: MODEL 6041CXX, FOR CONNECTION TO DYTRAN POWER UNITS 4113B AND 4103C. MODEL 6811AXX FOR CONNECTION TO MODEL 4114B FOUR-CHANNEL POWER UNIT.
- WEIGHT: 14 GRAMS.
- SIGNAL GROUND IS INSULATED FROM CASE GROUND.
- ENVIRONMENTAL SEAL: HERMETIC.
- HOUSING/CONNECTOR MATERIAL: TITANIUM.

**EXCEPT AS OTHERWISE NOTED**

ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX ± .xx ± .01

SURFACE FINISH EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR RADIUS OR CHAMFER

△ THESE DIAS ⊙ TO T.I.R.

FILLETS - MAX RAD.

<b>DYTRAN INSTRUMENTS, INC.</b>		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.	
SCALE	2X	REV	DATE	SEE REV BLK	ECN
DATE	4/2/02	PART NO.	MODEL 3143D2		
DRAWN	N.C.	CHECKED	MAT'L		
APPROVED	DV 8/29/08		NEXT ASSEMBLY	USED ON	3143D2
DWG NO.				127-3143D2	
OUTLINE/INSTALLATION DRAWING, MODEL 3143D2, 50 mV/G				SHEET 1 OF 1	

## SPECIFICATIONS

### MODEL 3143D2 TRIAXIAL LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	14	Grams
SIZE, L X W X H	.82 x .82 x .34	Inches
MOUNTING PROVISION, THRU HOLE	6-32 MOUNTING SCREW	
CONNECTOR, RADIALLY MOUNTED	4-PIN	
MATERIAL, HOUSING & CONNECTOR	TITANIUM	
ELEMENT TYPE	SHEAR MODE	
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 5\%$ [1]	50	mV/g
RANGE F.S. FOR $\pm 5$ VOLTS OUTPUT	$\pm 100$	g's
FREQUENCY RANGE, $\pm 5\%$	0.5 to 3000	Hz
RESONANT FREQUENCY, NOM.	25	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.0014	g's RMS
LINEARITY [2]	$\pm 1\%$	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.012	g's/ $\mu\sigma$ @ 250 $\mu\sigma$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION/SHOCK	600/1500	$\pm$ g's/g's PEAK
TEMPERATURE RANGE, OPERATING	-60 to +185	$^{\circ}$ F
TEMPERATURE RANGE, SURVIVAL	-100 TO +225	$^{\circ}$ F
SEAL, (WELDED, GLASS-TO-METAL CONNECTOR)	HERMETIC	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/ $^{\circ}$ F
<b>ELECTRICAL</b>		
SUPPLY CURRENT RANGE [3]	2 to 20	mA
COMPLIANCE VOLTAGE RANGE	+18 to +30	VDC
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE, +12 VOLTS NOM.	+11 to +13	VDC
DISCHARGE TIME CONSTANT, NOM.	1	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
ELECTRICAL ISOLATION, CASE GROUND TO MOUNTING SURFACE		10 Megohms, min.
RECOMMENDED CABLES	6041C (4-PIN CONNECTORS BOTH ENDS)	FOR USE WITH 4113B OR 4103C POWER UNITS
	6811A (4-PIN CONNECTOR TO 3-BNC's)	FOR USE WITH MULTI CHANNEL POWER UNITS AS MODEL 4114B

Accessories supplied: (1) Model 6247A2 mounting screw.

[1] Measured at 100 Hz, 1 G RMS per ISA RP 37.2.

[2] Measured using zero-based best straight line method, % of F.S. or any lesser range.

[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.