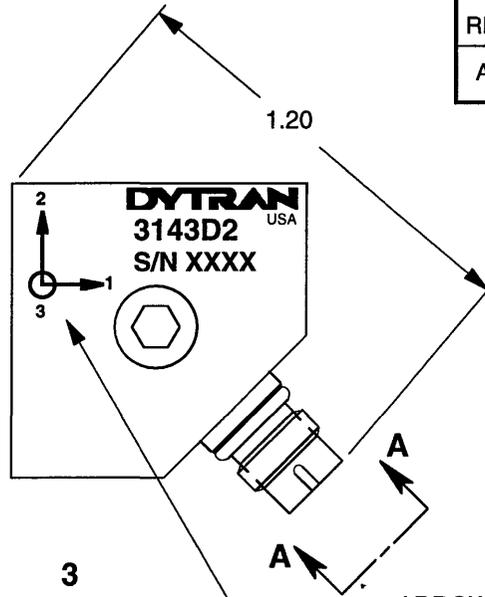
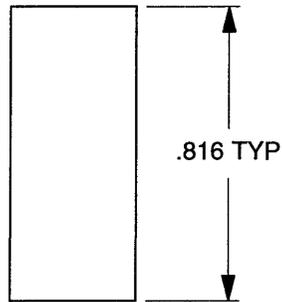


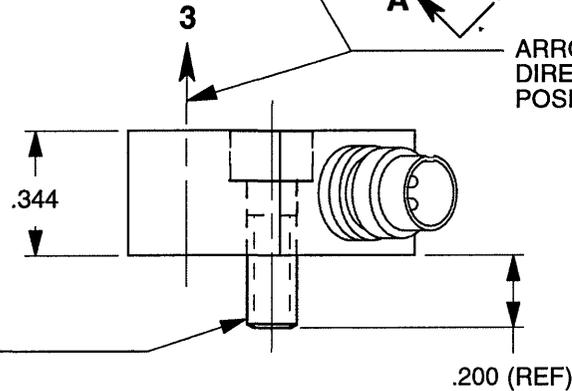
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5436	INITIAL RELEASE	RLA 8/29/08	DV	DV



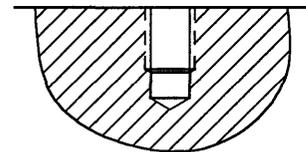
VIEW A-A LOOKING INTO CONNECTOR WITH CABLE DISCONNECTED

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



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



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

- 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.

		<h1>MASTER ONLY IF IN RED</h1>		CHATSWORTH, CA.	
SCALE	2X	REV	DATE	SEE REV BLK	ECN
DATE	4/2/02	PART NO.	MODEL 3143D2		
DRAWN	N.C.	CHECKED	DV		
APPROVED	8/29/08		NEXT ASSEMBLY	USED ON	
			3143D2		DWG NO.
OUTLINE/INSTALLATION DRAWING, MODEL 3143D2, 50 mV/G				127-3143D2	
				SHEET 1 OF 1	

Model Number
3143D2

PERFORMANCE SPECIFICATIONS

DOC NO
PS3143D2

IEPE TRIAXIAL ACCELEROMETER

REV A, EGN 11933, 06/09/15



- HERMETICALLY SEALED
- EXCELLENT LINEARITY

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3143D	10 mV/g	0.5 to 3000	0.8 to 2.0	-60 to 185
3143D1	100 mV/g	0.5 to 3000	0.8 to 2.0	-60 to 185

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 6247A2

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] Measured 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 amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.

PHYSICAL

Weight, Max.
Connector [1]
Mounting Provision
Material, Housing/Connector
Sensing Element
Element Style

Type
Thru Hole

ENGLISH		SI	
0.49	oz	14	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

50	mV/g	5	mV/m/s ²
±100	g peak	±981	m/s ²
0.5 to 3000	Hz	0.5 to 3000	Hz
> 25	kHz	> 25	kHz
0.0014	g rms	0.014	m/s ² rms
± 1	% F.S.	± 1	% F.S.
5	%	5	%
0.012	g/µε	0.12	m/s ² /µε

ENVIRONMENTAL

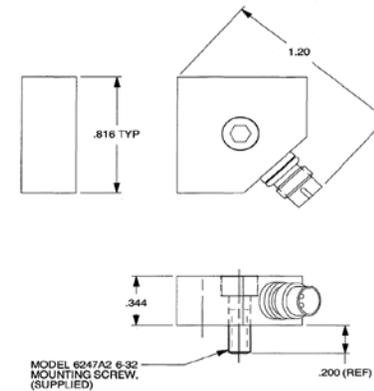
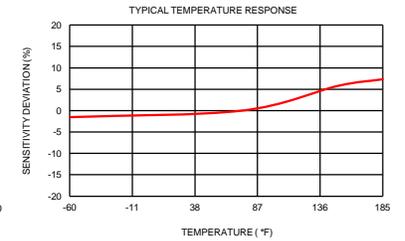
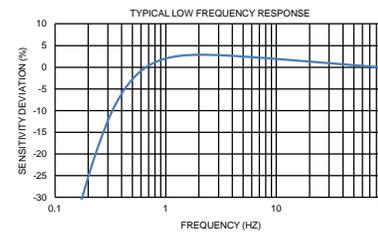
Maximum Vibration
Maximum Shock
Operating Temperature Range
Survival Temperature Range
Seal

±600	g peak	±5886	m/s ² peak
±1500	g peak	±14715	m/s ² peak
-60 to 185	°F	-51 to 85	°C
-100 to 225	°F	-73 to 107	°C
Hermetic		Hermetic	

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant
Electrical Isolation

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
0.8 to 2.0	Sec	0.8 to 2.0	Sec
10	GΩ,min	10	GΩ,min



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3143D2 for more information.



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