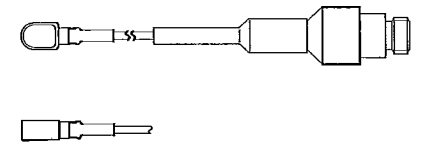
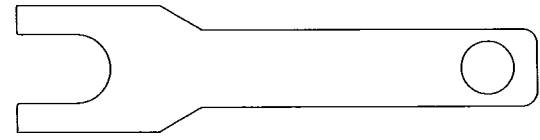
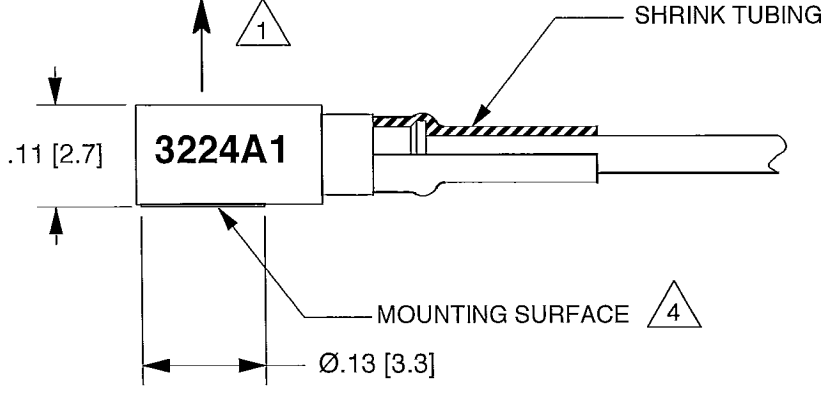
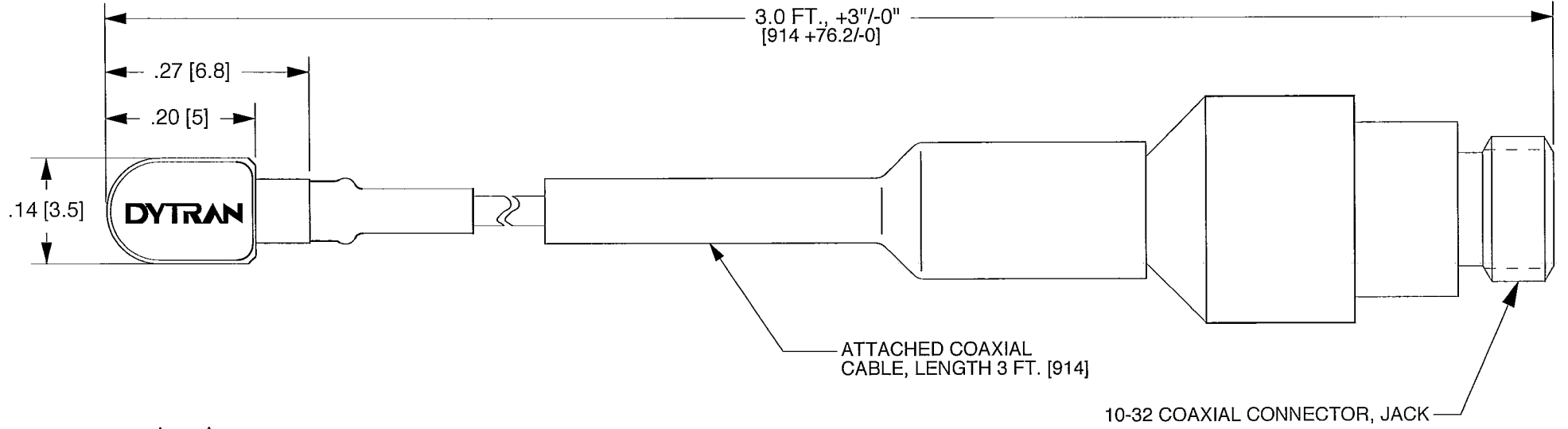


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5406	INITIAL RELEASE	NC/8-11-08	DV	ANS
B	6301	SEE ECN	RA, 10/05/09	JS	DV
C	8930	.27 [6.8] WAS: .247 [6.3]	LN, 07/30/12	↓	<i>OK</i>



- △ 4 APPLY ADHESIVE TO THIS SURFACE TO MOUNT.
- 3. CASE AND CONNECTOR MATERIAL: TITANIUM.
- 2. WEIGHT LESS CABLE: 0.2 GRAMS.
- △ 1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

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 ±.005	.XX ±0.25	

CHATS WORTH, CA.

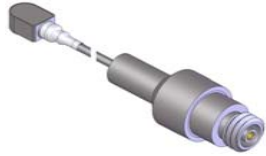
MASTER

ONLY IF IN RED

SCALE 5X	DESIGN N.C.	DATE 1/15/08			
DRAWN N.C.	DATE 1/15/08	PART NO. MODEL 3224A1			
CHECKED CES	DATE 3/25/09	MAT'L			C
APPROVED ANS	DATE 3/23/09	NEXT ASSEMBLY	USED ON		
TITLE OUTLINE/INSTALLATION DRAWING, MODEL 3224A1 ACCELEROMETER, 10 mV/g			DWG NO. 127-3224A1		
			SHEET 1 OF 1		

MODEL NUMBER 3224A1	PERFORMANCE SPECIFICATION	DOC NO. PS3224A1
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IEPE ACCELEROMETER		REV B,ECN 6440,12/02/09
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- MINIATURE SIZE
- HIGH SENSITIVITY
- EPOXY SEALED CABLE CONNECTION

PHYSICAL

Weight, Less Cable
Mounting Provision
Connector [2]
Case Material
Sensing Element

ENGLISH			SI	
0.007	oz		0.2	grams
[1]			[1]	
Integral cable			Integral cable	
Titanium			Titanium	
Planar Shear Piezoceramic			Planar Shear Piezoceramic	

PERFORMANCE

Sensitivity [3] [4]
Range F.S. For ± 5 Volts Output
Frequency Response, ±5%
Frequency Response, ±10%
Frequency Response, ±3db
Resonant Frequency, NOM
Equivalent Electrical Noise Floor
Amplitude Non-Linearity [5]
Transverse Sensitivity, Max.
Strain Sensitivity @250µε

9 to 14	mV/g		.9to 1.4	mV/ m/s ²
± 500	g		± 4905	m/s ²
1.6 to 20000	Hz		1.6 to 20000	Hz
0.4 to 30000	Hz		0.4 to 30000	Hz
0.15 to 60000	Hz		0.15 to 60000	Hz
>95	kHz		>95	kHz
0.017	g rms		0.167	m/s ² rms
± 2%	%F.S		± 1%	%F.S
5%			5%	
0.14	g/µε		1.37	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal

900	grms		8820	m/s ² rms
3000	±gpk		29400	± m/s ² pk
-60 to +300	°F		-51 to 149	°C
Laser welded, Epoxy Sealed Cable			Laser welded, Epoxy Sealed Cable	

ELECTRICAL

Supply Current [6]
Compliance Voltage Range
Output Impedance TYP
Bias Voltage
Discharge Time Constant
Output Signal Polarity for Acceleration Toward Top
Case Grounding

2 to 20	mA		2 to 20	mA
18 to +30	V		18 to +30	V
100	Ω		100	Ω
+8 to +10	VDC		+8 to +10	VDC
1.1 to 1.5	sec		1.1 to 1.5	sec
Positive			Positive	
[7]			[7]	

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC (sec)
3224A2	2 to 5	2500	0.03	-60 to 300	0.3 to 0.5
3224A3	5 to 10	1000	0.025	-60 to 300	1.1 to 1.5

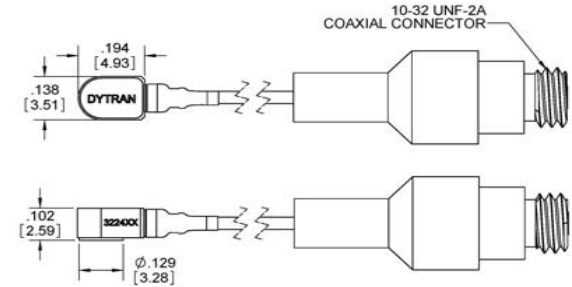
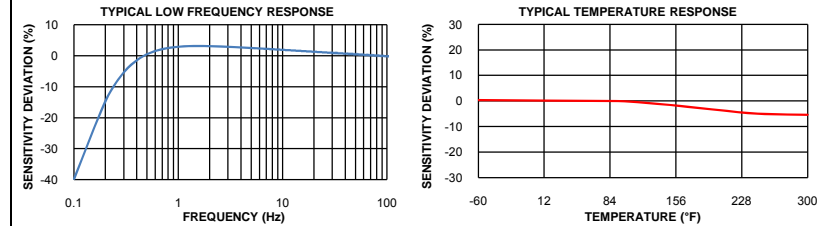
Please, refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Model 6725 installation removal wrench.
- 2) Sample of " Small Petro Mounting Wax".
- 3) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Flat mounting surface for adhesive mount.
- [2] 10-32 Jack at end of integral 3FT.cable
- [3] Measured at 100 Hz, 1 G rms per ISA RP 37.2.
- [4] Actual sensitivity is given on a calibration certificate traceable to ISO 17025, supplied with each instrument
- [5] Measured using zero-based best straight-line method.
- [6] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.
- [7] Case is grounded to electrical signal/power ground.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3224A1 for more information.



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