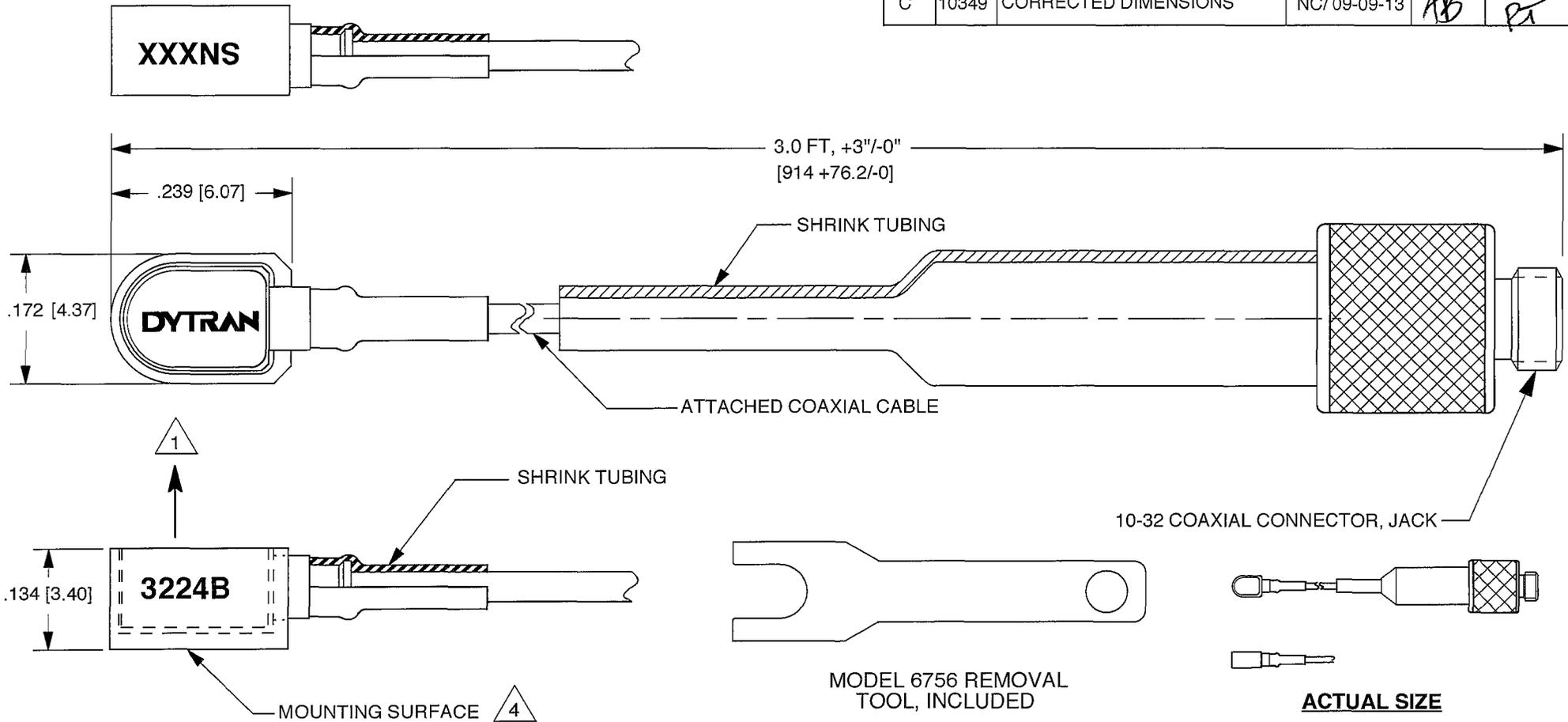


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9468	INITIAL RELEASE	AB 01/04/13	JS	AS
B	9935	UPDATED VIEW OF CONNECTOR	AB 05/10/13	JS	RT
C	10349	CORRECTED DIMENSIONS	NC/09-09-13	AB	RT



- 4 APPLY ADHESIVE TO THIS SURFACE TO MOUNT.
- 3. CASE AND CONNECTOR MATERIAL: TITANIUM. GROUND ISOLATION ADAPTOR: ALUMINUM ALLOY, ANODIZED.
- 2. WEIGHT LESS CABLE: 0.3 GRAMS MAX
- 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	MILLIMETERS	ANGLES
.XX ±.03	.X ±0.8	±1°
.XXX ±.005	.XX ±0.25	

		<b>MASTER</b> ONLY IF IN RED		CHATSWORTH, CA.	
SCALE 5X	DESIGN N.C.	DATE 5/11/11			
DRAWN N.C.	DATE 5/11/11	PART NO. MODEL 3224B			
CHECKED AB	DATE 09/09/13	MAT'L	REV C		
APPROVED RT	DATE 9/9/13	NEXT ASSEMBLY	USED ON		
TITLE <b>OUTLINE/INSTALLATION DRAWING, MODEL 3224B GROUND-ISOLATED ACCELEROMETER, 10 mV/g</b>			DWG NO. <b>127-3224B</b>		
SHEET 1 OF 1					

<b>MODEL NUMBER</b> <b>3224B</b>	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO.</b> <b>PS3224B</b>
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**IEPE ACCELEROMETER**

REV D, ECN 11881, 04/07/15



- **MINIATURE SIZE**
- **HIGH SENSITIVITY**
- **EPOXY SEALED CABLE CONNECTION**
- **GROUND ISOLATED**

**This family also includes:**

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC (sec)

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

**Supplied Accessories:**

- 1) Model 6756 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.

**PHYSICAL**

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

ENGLISH		SI
0.0105	oz	0.3
[1]		[1]
Integral cable		Integral cable
Titanium		Titanium
Anodized Aluminum		Anodized Aluminum
Planar Shear Piezoceramic		Planar Shear Piezoceramic

**PERFORMANCE**

Sensitivity [3] [4]  
Range F.S. For ± 5 Volts Output  
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	.9 to 1.4	mV/ m/s <sup>2</sup>
± 500	g	± 4905	m/s <sup>2</sup>
0.3 to 20000	Hz	0.3 to 20000	Hz
0.15 to 60000	Hz	0.15 to 60000	Hz
>95	kHz	>95	kHz
0.023	g rms	0.225	m/s <sup>2</sup> rms
± 2%	%F.S	± 2%	%F.S
5%		5%	
0.14	g/µε	1.37	m/s <sup>2</sup> /µε

**ENVIRONMENTAL**

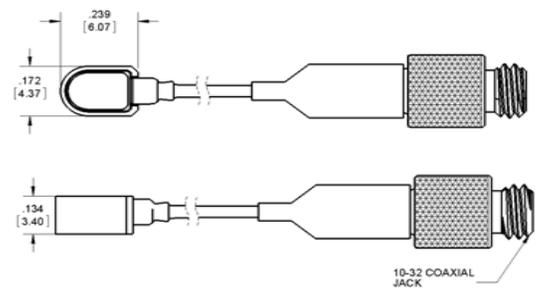
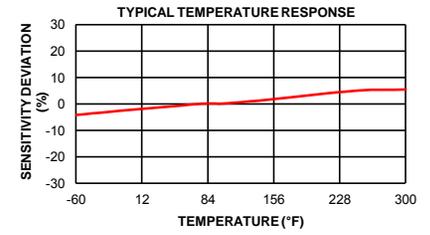
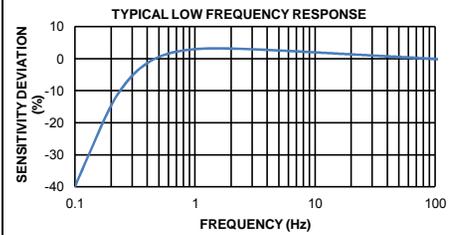
Maximum Vibration  
Maximum Shock  
Temperature Range  
Seal

900	grms	8820	m/s <sup>2</sup> rms
3000	±gpk	29400	± m/s <sup>2</sup> 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 Isolation

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	
10	GΩ	10	GΩ



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



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