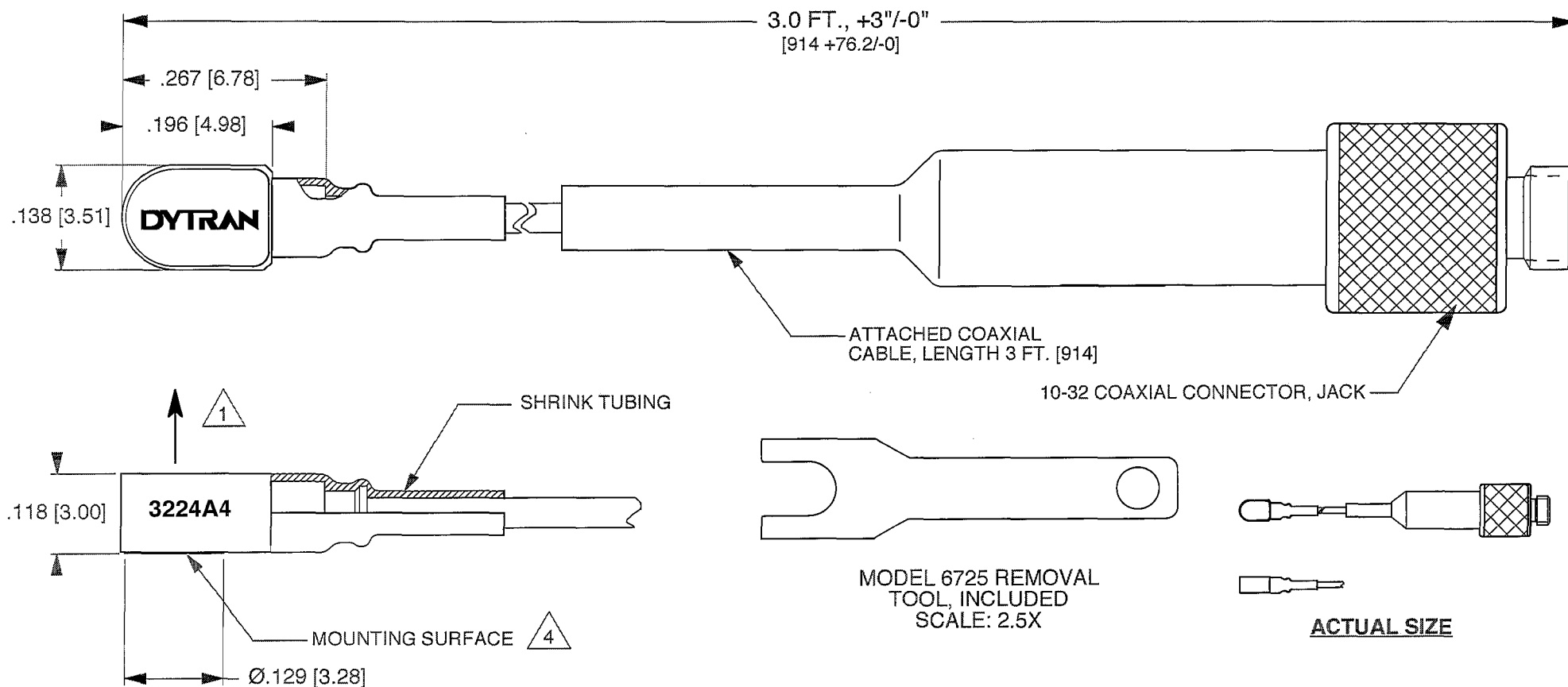


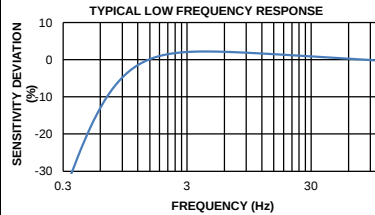
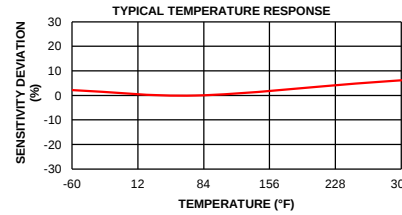
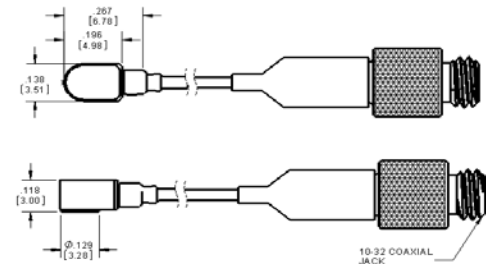
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9414	INITIAL RELEASE	NC/12-12-12	EP	DV
B	9935	UPDATED VIEW OF CONNECTOR	AB 05/10/13	JS	RT
C	10349	CORRECTED DIMENSIONS OF BODY	NC/09-09-13	MH	RT



- 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	

		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE 5X	DESIGN N.C.	DATE 12/12/12			
DRAWN N.C.	DATE 12/12/12	PART NO. MODEL 3224A4			
CHECKED MH	DATE 9/9/13	MAT'L	REV C		
APPROVED RT	DATE 9/9/13	NEXT ASSEMBLY	USED ON		
TITLE OUTLINE/INSTALLATION DRAWING, MODEL 3224A4			DWG NO. 127-3224A4		
			SHEET 1 OF 1		

MODEL NUMBER	PERFORMANCE SPECIFICATION				DOC NO.																																																																																																												
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	IEPE ACCELEROMETER				REV G, ECN 11932, 05/01/15																																																																																																												
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For ± 5 Volts Output</td><td>± 5000 g</td><td>± 49050 m/s²</td></tr><tr><td>Frequency Response, ±10%</td><td>1.2 to 20000 Hz</td><td>1.2 to 20000 Hz</td></tr><tr><td>Resonant Frequency, NOM</td><td>>95 kHz</td><td>>95 kHz</td></tr><tr><td>Equivalent Electrical Noise Floor</td><td>0.045 g rms</td><td>0.44 m/s² rms</td></tr><tr><td>Amplitude Non-Linearity [5]</td><td>± 1 % %F.S</td><td>± 1% %F.S</td></tr><tr><td>Transverse Sensitivity, Max.</td><td>5%</td><td>5%</td></tr><tr><td>Strain Sensitivity @250µε</td><td>0.14 g/µε</td><td>1.37 m/s²/µε</td></tr></table> <table><tr><td>Maximum Vibration</td><td>6000 grms</td><td>58800 m/s² rms</td></tr><tr><td>Maximum Shock</td><td>5000 ±gpk</td><td>49000 ± m/s² pk</td></tr><tr><td>Temperature Range</td><td>-60 to +300 °F</td><td>-51 to 149 °C</td></tr><tr><td>Seal</td><td>Laser Welded, Epoxy sealed Cable</td><td>Laser Welded, Epoxy sealed Cable</td></tr><tr><td>Magnetic Sensitivity at 100 Gauss</td><td>0.000009 g/Gauss</td><td>0.8829 m/s²/T</td></tr></table> <table><tr><td>Supply Current [6]</td><td>2 to 20 mA</td><td>2 to 20 mA</td></tr><tr><td>Compliance Voltage Range</td><td>18 to +30 V</td><td>18 to +30 V</td></tr><tr><td>Output Impedance TYP</td><td>100 Ω</td><td>100 Ω</td></tr><tr><td>Bias Voltage</td><td>+7 to +9 VDC</td><td>+7 to +9 VDC</td></tr><tr><td>Discharge Time Constant</td><td>0.3 to 1.0 sec</td><td>0.3 to 1.0 sec</td></tr><tr><td>Output Signal Polarity for Acceleration Toward Top</td><td>Positive</td><td>Positive</td></tr><tr><td>Case Grounding</td><td>[7]</td><td>[7]</td></tr></table> This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (Gpeak)</th><th>Resolution (Grms)</th><th>Oper. Temp(°F)</th><th>TC (sec)</th></tr><tr><td>3224A1</td><td>9 to 14</td><td>500</td><td>0.023</td><td>-60 to 300</td><td>0.9 to 1.5</td></tr><tr><td>3224A2</td><td>2 to 5</td><td>2500</td><td>0.03</td><td>-60 to 300</td><td>0.3 to 1.0</td></tr><tr><td>3224A3</td><td>5 to 10</td><td>1000</td><td>0.037</td><td>-60 to 300</td><td>1.1 to 1.5</td></tr></table> Please, refer to the performance specifications of the products in this family for detailed description. Supplied Accessories: - Model 6725 installation removal wrench. - Sample of " Small Petro Mounting Wax". - Accredited calibration certificate (ISO 17025) Notes: - Flat mounting surface for adhesive mount. 10-32 Jack at end of integral 3FT.cable - Measured at 100 Hz, 1 g rms per ISA RP 37.2. - Actual sensitivity is given on a calibration certificate traceable to ISO 17025, supplied with each instrument - Measured using zero-based best straight-line method. - Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier. - Case is grounded to electrical signal/power ground. TYPICAL LOW FREQUENCY RESPONSE  TYPICAL TEMPERATURE RESPONSE   Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3224A4 for more information.  21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com						ENGLISH		SI		Weight, Less Cable	0.007 oz		0.2 grams	Mounting Provision	[1]		[1]	Connector [2]	Integral cable		Integral cable	Case Material	Titanium		Titanium	Sensing Element	Planar Shear Piezoceramic		Planar Shear Piezoceramic	Sensitivity, 25% [3] [4]	1 mV/g	0.1 mV/ m/s ²	Range F.S. For ± 5 Volts Output	± 5000 g	± 49050 m/s ²	Frequency Response, ±10%	1.2 to 20000 Hz	1.2 to 20000 Hz	Resonant Frequency, NOM	>95 kHz	>95 kHz	Equivalent Electrical Noise Floor	0.045 g rms	0.44 m/s ² rms	Amplitude Non-Linearity [5]	± 1 % %F.S	± 1% %F.S	Transverse Sensitivity, Max.	5%	5%	Strain Sensitivity @250µε	0.14 g/µε	1.37 m/s ² /µε	Maximum Vibration	6000 grms	58800 m/s ² rms	Maximum Shock	5000 ±gpk	49000 ± m/s ² pk	Temperature Range	-60 to +300 °F	-51 to 149 °C	Seal	Laser Welded, Epoxy sealed Cable	Laser Welded, Epoxy sealed Cable	Magnetic Sensitivity at 100 Gauss	0.000009 g/Gauss	0.8829 m/s ² /T	Supply Current [6]	2 to 20 mA	2 to 20 mA	Compliance Voltage Range	18 to +30 V	18 to +30 V	Output Impedance TYP	100 Ω	100 Ω	Bias Voltage	+7 to +9 VDC	+7 to +9 VDC	Discharge Time Constant	0.3 to 1.0 sec	0.3 to 1.0 sec	Output Signal Polarity for Acceleration Toward Top	Positive	Positive	Case Grounding	[7]	[7]	Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. 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