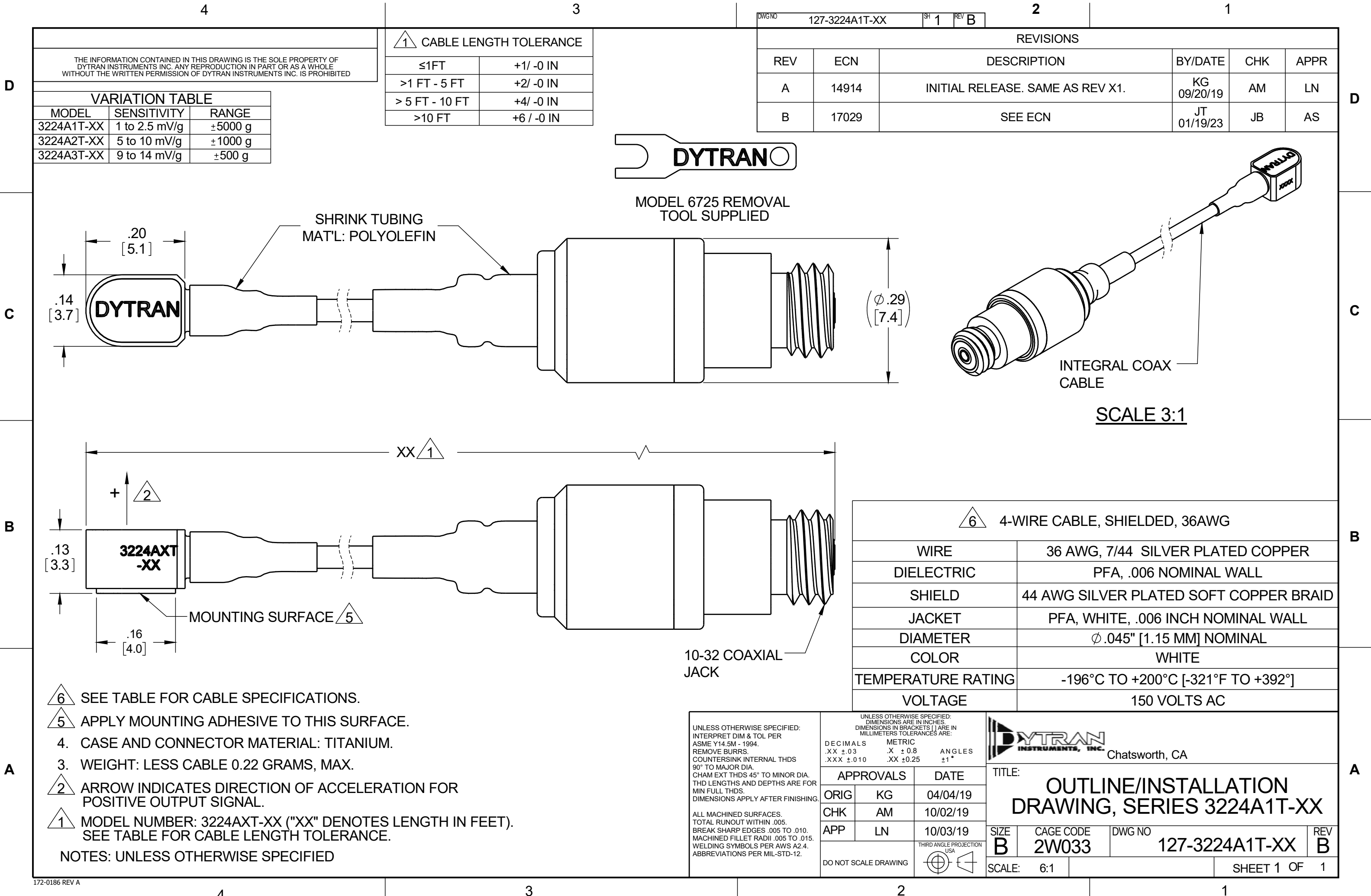




D

C

B

A

1 CABLE LENGTH TOLERANCE	
≤1FT	+1/ -0 IN
>1 FT - 5 FT	+2/ -0 IN
> 5 FT - 10 FT	+4/ -0 IN
>10 FT	+6 / -0 IN

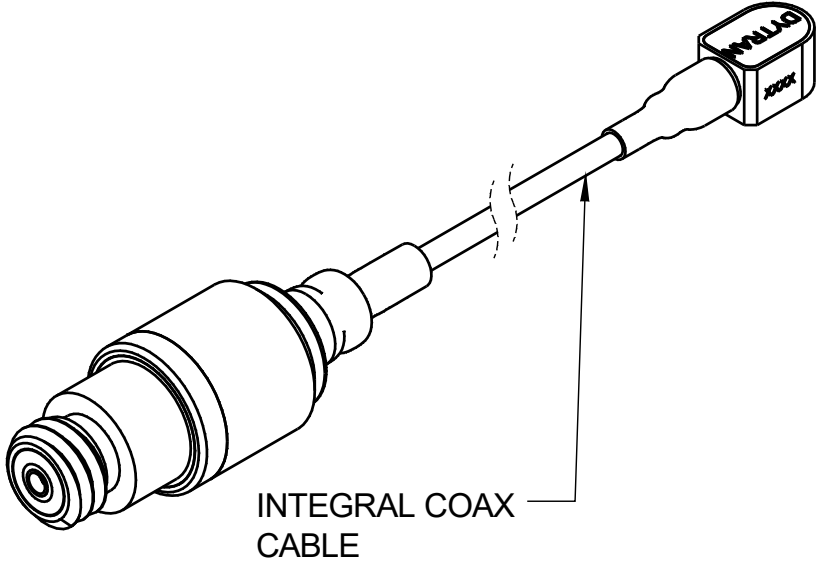
DWGNO 127-3224A1T-XX SH 1 REV B

REVISIONS					
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14914	INITIAL RELEASE. SAME AS REV X1.	KG 09/20/19	AM	LN
B	17029	SEE ECN	JT 01/19/23	JB	AS

VARIATION TABLE		
MODEL	SENSITIVITY	RANGE
3224A1T-XX	1 to 2.5 mV/g	±5000 g
3224A2T-XX	5 to 10 mV/g	±1000 g
3224A3T-XX	9 to 14 mV/g	±500 g



MODEL 6725 REMOVAL
TOOL SUPPLIED



INTEGRAL COAX
CABLE

SCALE 3:1

6 4-WIRE CABLE, SHIELDED, 36AWG	
WIRE	36 AWG, 7/44 SILVER PLATED COPPER
DIELECTRIC	PFA, .006 NOMINAL WALL
SHIELD	44 AWG SILVER PLATED SOFT COPPER BRAID
JACKET	PFA, WHITE, .006 INCH NOMINAL WALL
DIAMETER	Ø .045" [1.15 MM] NOMINAL
COLOR	WHITE
TEMPERATURE RATING	-196°C TO +200°C [-321°F TO +392°]
VOLTAGE	150 VOLTS AC

- 6 SEE TABLE FOR CABLE SPECIFICATIONS.
- 5 APPLY MOUNTING ADHESIVE TO THIS SURFACE.
4. CASE AND CONNECTOR MATERIAL: TITANIUM.
3. WEIGHT: LESS CABLE 0.22 GRAMS, MAX.
- 2 ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT SIGNAL.
- 1 MODEL NUMBER: 3224AXT-XX ("XX" DENOTES LENGTH IN FEET). SEE TABLE FOR CABLE LENGTH TOLERANCE.
- NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER
ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS
90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR
MIN FULL THDS.
DIMENSIONS APPLY AFTER FINISHING.

ALL MACHINED SURFACES.
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

APPROVALS		DATE
ORIG	KG	04/04/19
CHK	AM	10/02/19
APP	LN	10/03/19
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS [] ARE IN
MILLIMETERS TOLERANCES ARE:

DECIMALS	METRIC	ANGLES
.XX ±.03	.X ±0.8	±1°
.XXX ±.010	.XX ±0.25	

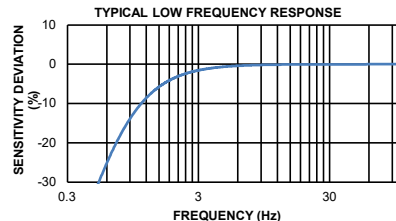
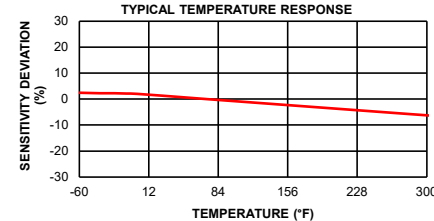
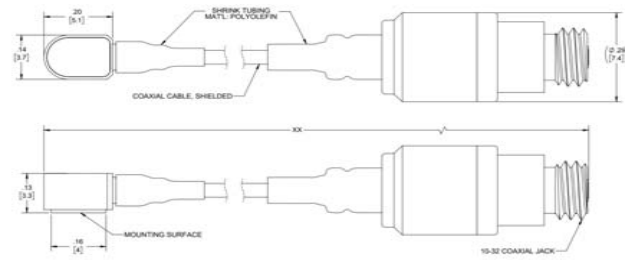
DYTRAN
INSTRUMENTS, INC. Chatsworth, CA

TITLE:
**OUTLINE/INSTALLATION
DRAWING, SERIES 3224A1T-XX**

SIZE B	CAGE CODE 2W033	DWG NO 127-3224A1T-XX	REV B
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SCALE: 6:1

SHEET 1 OF 1

MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO.							
3224A1T-XX						PS3224A1T-XX							
		IEPE ACCELEROMETER				REV G, ECN 17269, 11/29/23							
 • MINIATURE SIZE • INTEGRAL CABLE W/ 10-32 CONNECTOR • TEDS FEATURE • ADHESIVE MOUNT		This family also includes:											
		Model		Sensitivity (mV/g)		Range (g pk)		Resolution (g RMS)		Oper. Temp(°F)		TC (sec)	
		3224A2T-XX		5 to 10		1000		0.037		-60 to 300		1.1 to 2.5	
		3224A3T-XX		9 to 14		500		0.023		-60 to 300		0.9 to 2.5	
		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 variable length cable													
[3] Actual sensitivity is given on a calibration certificate traceable to ISO 17025, supplied with each instrument.													
[4] Measure using zero-based straight line method, % of F.S. or any lesser range.													
[5] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.													
[6] All specifications are at room temperature unless otherwise specified.													
[7] Case is grounded to electrical signal/power ground.													
[8] In the interest of constant product improvement, we reserve the rights to change the specifications without notice.													
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.													
PHYSICAL		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 Quartz				Planar Shear Quartz							
PERFORMANCE													
Sensitivity, 25% [6]		1 to 2.5		mV/g		0.1 to 0.25		mV/ m/s ²					
Range F.S. For ± 5 Volts Output		± 5000		g pk		± 49050		m/s ² pk					
Frequency Response, ±3dB		0.54 to 60000		Hz		0.54 to 60000		Hz					
Resonant Frequency, NOM		>95		kHz		>95		kHz					
Equivalent Electrical Noise Floor		0.08		g RMS		0.78		m/s ² RMS					
Amplitude Non-Linearity [4]		± 1 %		%F.S		± 1%		%F.S					
Transverse Sensitivity, Max.		5%				5%							
Strain Sensitivity @250µε		0.14		g/µε		1.37		m/s ² /µε					
ENVIRONMENTAL													
Maximum Shock		6000		g pk		58800		m/s ² pk					
Temperature Range		-60 to +300		°F		-51 to 149		°C					
TEDs Operating Temperature		-40 to +185		°F		-40 to +85		°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					
ELECTRICAL													
Supply Current [5]		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 +10		VDC		+7 to +10		VDC					
Discharge Time Constant		0.3 to 2.5		sec		0.3 to 2.5		sec					
Output Signal Polarity for Acceleration Toward Top		Positive				Positive							
Case Grounding		[7]				[7]							
   Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3224A1T-XX for more information.													
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