

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

1 CABLE LENGTH TOLERANCE

≤1FT	+1/ -0 IN
>1 FT - 5 FT	+2/ -0 IN
> 5 FT - 10 FT	+4/ -0 IN
>10 FT - 25FT	+6 / -0 IN
>25 FT	+5% / -0%

REVISIONS					
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14914	INITIAL RELEASE. SAME AS REV X1.	KG 09/20/19	AM	LW

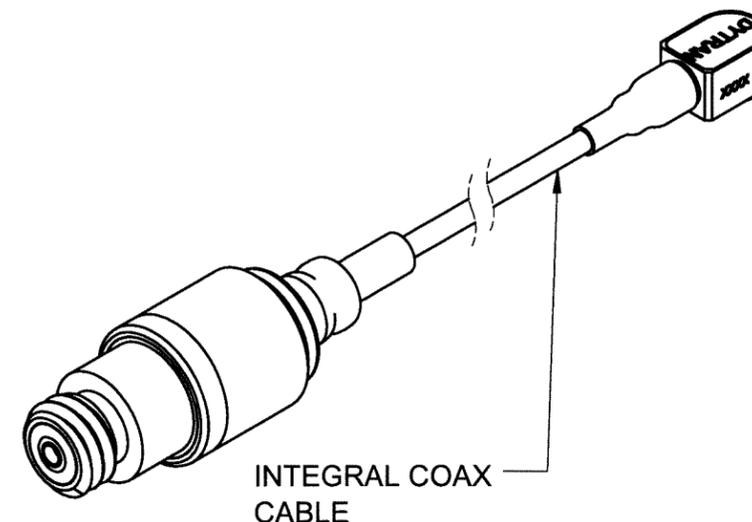
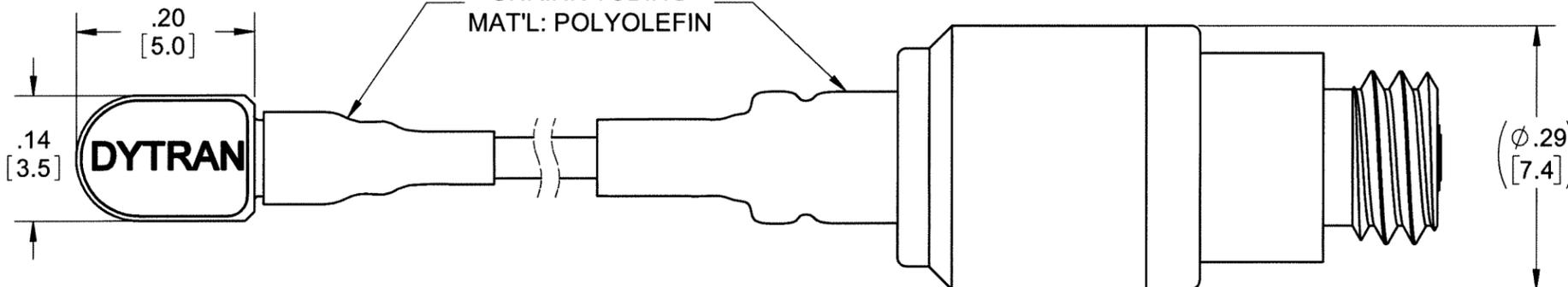
VARIATION TABLE

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



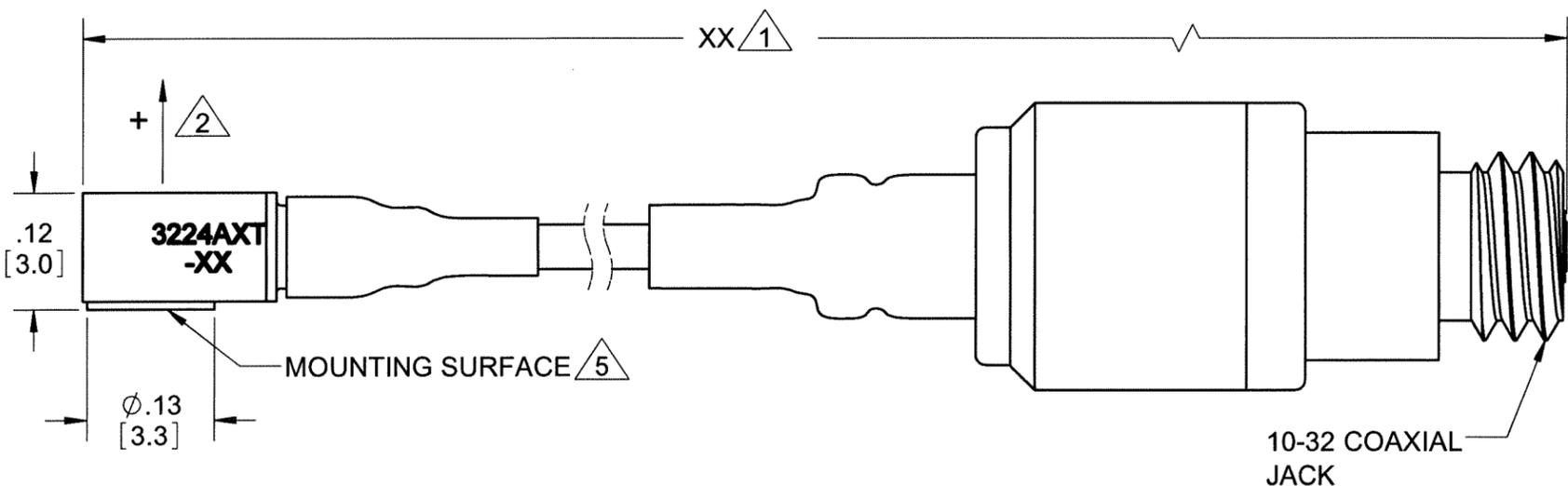
MODEL 6725 REMOVAL TOOL SUPPLIED

SHRINK TUBING MAT'L: POLYOLEFIN



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

10-32 COAXIAL JACK

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.

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	

APPROVALS		DATE
ORIG	KG	04/04/19
CHK	AM	10/02/19
APP	LW	10/03/19

DO NOT SCALE DRAWING

DYTRAN INSTRUMENTS, INC. Chatsworth, CA **MASTER ONLY IF IN RED**

TITLE: OUTLINE/INSTALLATION DRAWING, SERIES 3224A1T-XX			
SIZE B	CAGE CODE 2W033	DWG NO 127-3224A1T-XX	REV A
SCALE: 6:1	SHEET 1 OF 1		

MODEL NUMBER 3224A2T-XX	PERFORMANCE SPECIFICATION	DOC NO. PS3224A2T-XX
--	----------------------------------	---------------------------------------

IEPE ACCELEROMETER	REV D, ECN 17029, 01/19/23
---------------------------	----------------------------



- **MINIATURE SIZE**
- **INTEGRAL CABLE W/ 10-32 CONNECTOR**
- **TEDS FEATURE**
- **ADHESIVE MOUNT**

PHYSICAL

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	

PERFORMANCE

Sensitivity [4]	5 to 10	mV/g	0.5 to 1.0	mV/ m/s ²
Range F.S. For ± 5 Volts Output	± 1000	g pk	± 9810	m/s ² pk
Frequency Response, ±10%	0.24 to 20000	Hz	0.24 to 20000	Hz
Resonant Frequency, NOM	>95	kHz	>95	kHz
Equivalent Electrical Noise Floor	0.037	g RMS	0.36	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

ENVIRONMENTAL

Maximum Shock	2000	g pk	19600	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 [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	70	Ω
Bias Voltage	+7 to +13	VDC	+7 to +13	VDC
Discharge Time Constant	1.1 to 2.5	sec	1.1 to 2.5	sec
Output Signal Polarity for Acceleration Toward Top	Positive		Positive	
Case Grounding	[7]		[7]	

This family also includes:

Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp(°F)	TC (sec)
3224A1T-XX	1 to 2.5	5000	0.08	-60 to 300	0.3 to 2.5
3224A3T-XX	9 to 14	500	0.023	-60 to 300	0.9 to 2.5

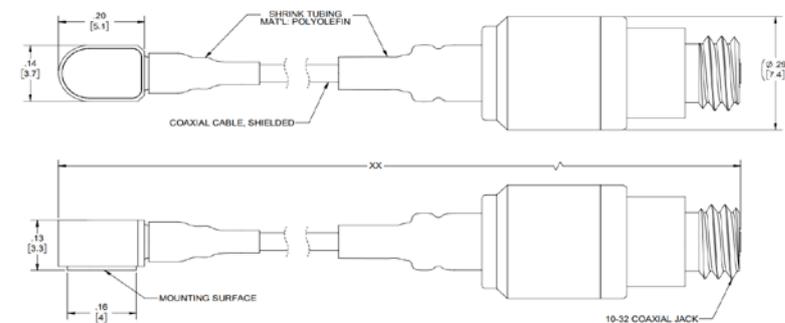
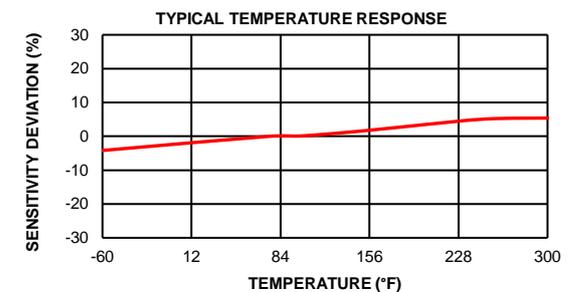
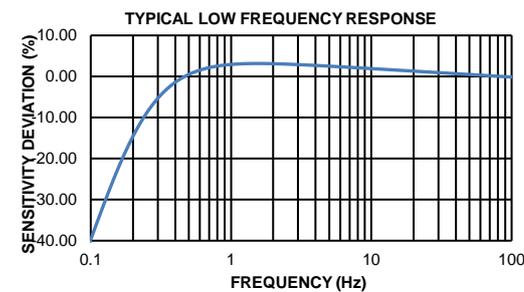
Please refer to the performance specifications of the products in this family for detailed description.

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] All specifications are at room temperature unless otherwise specified.
 - [5] Measured using zero-based best straight-line method, % of F.S. or any lesser range.
 - [6] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
 - [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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3224A1T-XX for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.698.0362 www.dytran.com
For permission to reprint this content, please contact info@dytran.com