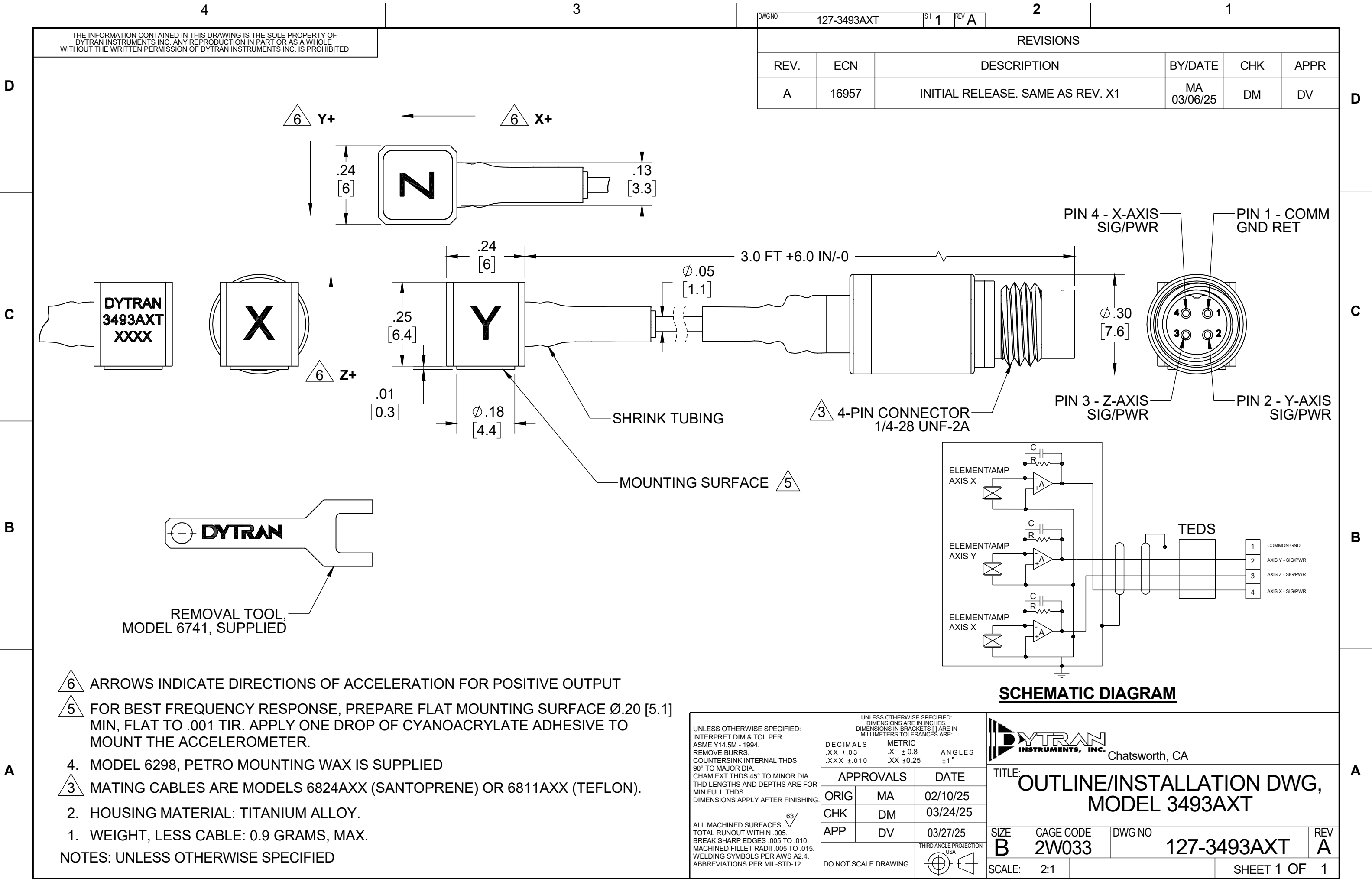




6 ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT

5 FOR BEST FREQUENCY RESPONSE, PREPARE FLAT MOUNTING SURFACE Ø.20 [5.1] MIN, FLAT TO .001 TIR. APPLY ONE DROP OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.

- 4. MODEL 6298, PETRO MOUNTING WAX IS SUPPLIED
- 3 MATING CABLES ARE MODELS 6824AXX (SANTOPRENE) OR 6811AXX (TEFLON).
- 2. HOUSING MATERIAL: TITANIUM ALLOY.
- 1. WEIGHT, LESS CABLE: 0.9 GRAMS, MAX.

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 ±.8	° ±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	MA	02/10/25
CHK	DM	03/24/25
APP	DV	03/27/25

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION
USA

DYTRAN
INSTRUMENTS, INC. Chatsworth, CA

TITLE:
**OUTLINE/INSTALLATION DWG,
MODEL 3493AXT**

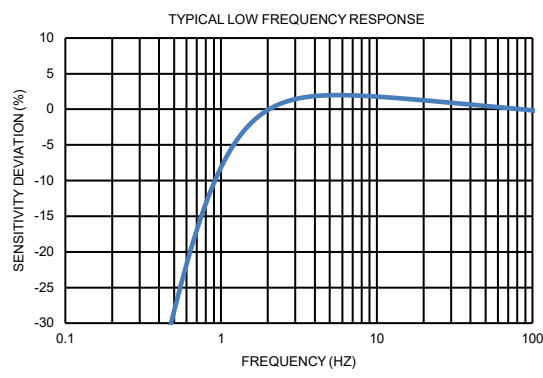
SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3493AXT	A

SCALE: 2:1

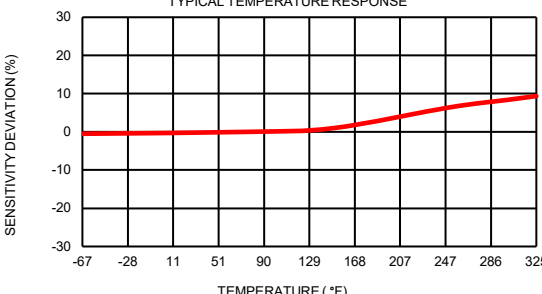
SHEET 1 OF 1

Model Number 3493A2T		PERFORMANCE SPECIFICATIONS				DOC NO PS3493A2T																					
		Accelerometer, Triaxial, IEPE				REV A, ECN 16957, 03/07/25																					
		• ULTRA MINIATURE SIZE • HIGH SENSITIVITY • IDEAL LOW FREQUENCY RESPONSE • LOW NOISE • 2 TO 5 mA CURRENT RANGE • TEDS FEATURE				This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (Gpeak)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr><tr><td>3493A1T</td><td>5</td><td>1,000</td><td>0.2 to 2.0</td><td>-67 to +325</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> Refer to the performance specifications of the products in this family for detailed description		Model	Sensitivity (mV/g)	Range (Gpeak)	Time Constant (Sec)	Operating Temp (°F)	3493A1T	5	1,000	0.2 to 2.0	-67 to +325										
Model	Sensitivity (mV/g)	Range (Gpeak)	Time Constant (Sec)	Operating Temp (°F)																							
3493A1T	5	1,000	0.2 to 2.0	-67 to +325																							
		Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Model 6298 small petro wax 3) Model 6741 removal tool				Notes: [1] All specifications are at room temperature unless otherwise specified. [2] Measured at 100Hz [3] Measure using zero-based straight line method, % of F.S. or any lesser range. [4] Do not apply power to this system without current limiting, 5 mA MAX. To do so will destroy the IC charge amplifier. [5] In the interest of constant product improvement, we reserve the right to change 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 over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.																					
PHYSICAL		ENGLISH		SI																							
Weight, Max. (Less Cable)		0.03	oz	0.9	grams																						
Mounting		Adhesive		Adhesive																							
Integral Cable	Length	3	ft	914.4	mm																						
	Type	TFE		TFE																							
Connector	Type	4-pin		4-pin																							
Housing	Material	Titanium		Titanium																							
	Isolation	Case Ground		Case Ground																							
Sensing Element	Material	Ceramic		Ceramic																							
	Mode	Shear		Shear																							
PERFORMANCE																											
Sensitivity [2], ±15%		10.0	mV/g	1.0	mV/m/s ²																						
Acceleration Range		500	g pk	4905	m/s ² pk																						
Frequency Range	±5%	1 to 5,000	Hz	1 to 5,000	Hz																						
	±10%	1 to 10,000	Hz	1 to 10,000	Hz																						
Resonance Frequency		>28	kHz	>28	kHz																						
Linearity [3]		±1	%	±1	%																						
Transverse Sensitivity		<6	%	<6	%																						
Bias Voltage		+11 to +13	VDC	+11 to +13	VDC																						
Output Impedance		100	Ω	100	Ω																						
Discharge Time Constant		0.2 to 2.0	seconds	0.2 to 2.0	seconds																						
Noise floor		0.008	Grms	0.08	m/s ² rms																						
Spectral Noise	1Hz	1000	µg RMS/√(Hz)	9810	µm/s ² RMS/√(Hz)																						
	10Hz	500	µg RMS/√(Hz)	4905	µm/s ² RMS/√(Hz)																						
	100Hz	125	µg RMS/√(Hz)	1226	µm/s ² RMS/√(Hz)																						
	1000Hz	60	µg RMS/√(Hz)	589	µm/s ² RMS/√(Hz)																						
	10000Hz	25	µg RMS/√(Hz)	245	µm/s ² RMS/√(Hz)																						
Thermal Transient		0.24	g/°F	0.43	g/°C																						
ENVIRONMENTAL																											
Shock		3,000	g pk	29,430	m/s ² pk																						
Operating Temperature		-67 to +325	°F	-55 to +162	°C																						
TEDS Operating Temperature		-40 to +185	°F	-40 to +85	°C																						
Seal		Epoxy		Epoxy																							
Magnetic Sensitivity at 100 Gauss		0.001	g/Gauss	0.01	m/s ² /Gauss																						
Base Strain		0.15	g/µε	1.47	m/s ² /µε																						
ELECTRICAL																											
Compliance Voltage		+18 to +30	VDC	+18 to +30	VDC																						
Current Range [4]		2 to 5	mA	2 to 5	mA																						
TEDS Feature		IEEE 1451.4		IEEE 1451.4																							

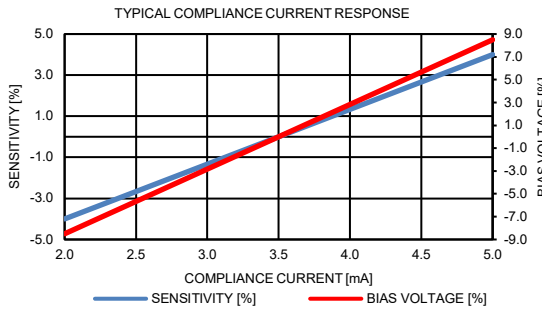
Typical Low Frequency Response

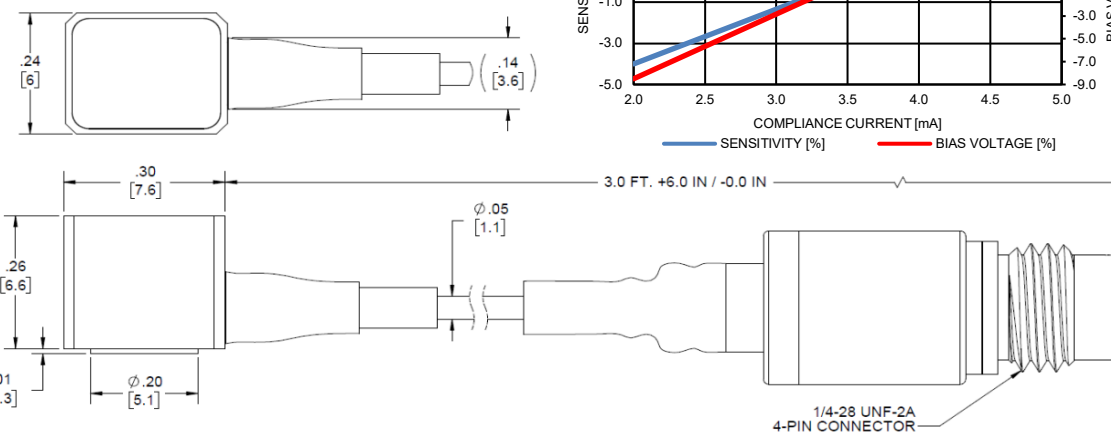


Typical Temperature Response



Typical Compliance Current Response





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3493AXT for more information.



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