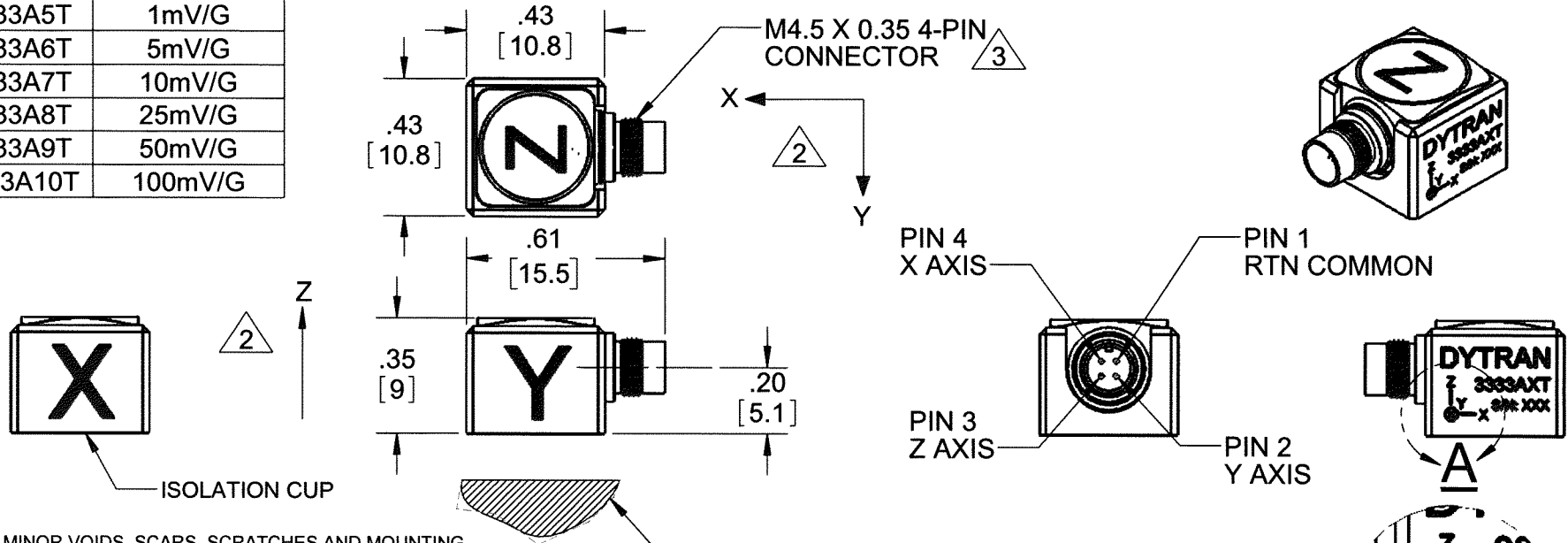


PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED		REVISIONS					
REV	ECN	DESCRIPTION			BY/DATE	CHK	APPR
A	14677	INITIAL RELEASE, SAME AS X1			RA 11/13/18	DP	ك

MODEL	SENSITIVITY
3333A5T	1mV/G
3333A6T	5mV/G
3333A7T	10mV/G
3333A8T	25mV/G
3333A9T	50mV/G
3333A10T	100mV/G



5. MINOR VOIDS, SCARS, SCRATCHES AND MOUNTING BLEMISH/WITNESS MARKS ON EXTERIOR SURFACES ARE ALLOWED DUE TO RESTRAINING AND HANDLING DURING TESTING, TRANSPORT OR PROCESSING. THESE APPEAR AS INDICATORS THAT DO NOT AFFECT FORM, FIT OR FUNCTION AS INTENDED BY DESIGN OR APPLICATION
4. HOUSING/CONNECTOR MATERIAL: TITANIUM ISOLATION CUP: ALUMINUM ALLOY 6061-T6, BLACK ANODIZED

3 MATES WITH DYTRAN 6893AXX CABLE

2 ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT

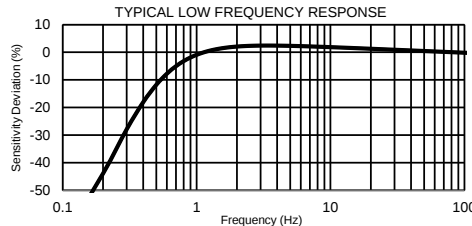
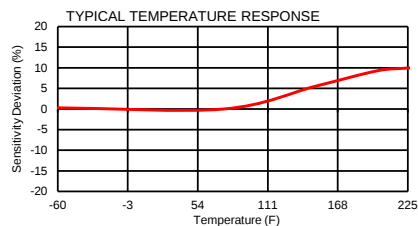
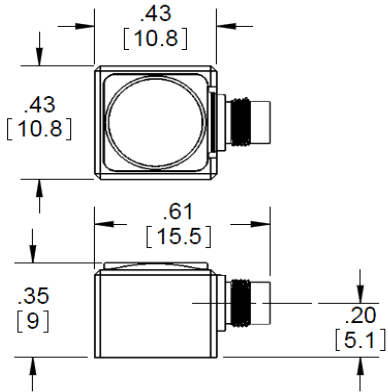
1. WEIGHT: 2.8 GRAMS MAX

NOTES: UNLESS OTHERWISE SPECIFIED

MOUNTING RECOMMENDATIONS
PREPARE A SURFACE AT LEAST
.50 BY .50. SURFACE FLATNESS MUST
BE EQUAL OR BETTER THAN .001 TIR.
USE ONE DROP OF CYANOACRYLATE
TO MOUNT THE ACCELEROMETER.

DETAIL A
SCALE 4 : 1

		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. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.		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 ± .010 .XX ± 0.25		 MASTER COPY Chatsworth, CA	
3333A5T						TITLE: OUTLINE/INSTALLATION DWG, ACCELEROMETER, TRIAxIAL, 3333A5T, TEDS	
USED ON		NEXT ASSY		APPROVALS		DATE	
APPLICATION				ORIG		R.A.	
THIRD ANGLE PROJECTION USA				CHK		11/08/18	
		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.		FINISH		11/20/18	
				APP		11/29/18	
				APP			
		DO NOT SCALE DRAWING		SIZE		CAGE CODE	
				A		2W033	
				DWG. NO.		127-3333A5T	
				REV		A	
				SCALE: 2:1		SOLIDWORKS	
						SHEET 1 OF 1	

MODEL NUMBER 3333A5T		PERFORMANCE SPECIFICATION				DOC NO PS3333A5T																																					
		Accelerometer, Triaxial, IEPE			REV B, ECN 15776, 06/02/20																																						
		• ULTRA LOW FREQUENCY RESPONSE • ULTRA LOW NOISE LEVEL • HERMETICALLY SEALED • CASE ISOLATED • TEDS FEATURE				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>Time Constant (sec)</th></tr><tr><td>3333A6T</td><td>5</td><td>1000</td><td>0.0072</td><td>-60 to +225</td><td>0.5 - 1.5</td></tr><tr><td>3333A7T</td><td>10</td><td>500</td><td>0.0036</td><td>-60 to +225</td><td>0.5 - 1.5</td></tr><tr><td>3333A8T</td><td>25</td><td>200</td><td>0.0024</td><td>-60 to +185</td><td>0.5 - 1.5</td></tr><tr><td>3333A9T</td><td>50</td><td>100</td><td>0.00095</td><td>-60 to +185</td><td>0.5 - 1.5</td></tr><tr><td>3333A10T</td><td>100</td><td>50</td><td>0.00095</td><td>-60 to +180</td><td>0.5 - 1.5</td></tr></table>		Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	Time Constant (sec)	3333A6T	5	1000	0.0072	-60 to +225	0.5 - 1.5	3333A7T	10	500	0.0036	-60 to +225	0.5 - 1.5	3333A8T	25	200	0.0024	-60 to +185	0.5 - 1.5	3333A9T	50	100	0.00095	-60 to +185	0.5 - 1.5	3333A10T	100	50	0.00095	-60 to +180	0.5 - 1.5
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3333A10T	100	50	0.00095	-60 to +180	0.5 - 1.5																																						
Refer to the performance specifications of the products in this family for detailed description.																																											
PHYSICAL Weight, Max Mounting Connector [1] Housing Sensing Element		Type Material Material Material Mode																																									
		ENGLISH	SI																																								
		0.14 oz	4.0 grams																																								
		Adhesive	Adhesive																																								
		4-pin	4-pin																																								
		Ti-6 Al-4V	Ti-6 Al-4V																																								
		Ti-6 Al-4V	Ti-6 Al-4V																																								
		Ceramic	Ceramic																																								
		Shear	Shear																																								
PERFORMANCE Sensitivity, +15/-10% [2] Acceleration Range, +/-5V Frequency Range, +15/-10% Resonance Frequency Linearity [3] Transverse Sensitivity Max Noise floor, Max Spectral Noise		1 5000 .54-10,000 >24 1 5 0.03 1Hz 10Hz 100Hz 1000Hz 10000Hz	mV/g Gpeak Hz kHz %F.S. % Grms μGrms/sqr(Hz) μGrms/sqr(Hz) μGrms/sqr(Hz) μGrms/sqr(Hz) μGrms/sqr(Hz)	0.10 49050 .54-10,000 >24 1 5 0.294 617049 10791 6573 3041 1570	mV/m/s ² m/s ² peak Hz kHz %F.S. % m/s ² rms μm/s ² rms/sqr(Hz) μm/s ² rms/sqr(Hz) μm/s ² rms/sqr(Hz) μm/s ² rms/sqr(Hz) μm/s ² rms/sqr(Hz)																																						
ENVIRONMENTAL Shock Max Vibration Max Operating Temperature TEDS Operating Temperature Seal Base Strain Sensitivity		7000 6000 -60 to +225 -40 to +185 Hermetic 0.06	g pk g pk °F °F Hermetic g/με	68670 58860 -51 to +107 -40 to +85 Hermetic 0.59	m/s ² m/s ² °C °C Hermetic m/s ² /με																																						
ELECTRICAL Supply Current Range [4] Compliance Voltage Range Output Impedance, Typ. Output Bias Voltage Discharge Time Constant TEDS Feature Case Isolation		2 to 20 +18 to +30 100 +11 to +13 0.5 - 1.5 IEEE 1451.4 10	mA VDC Ω VDC sec IEEE 1451.4 GΩ	2 to 20 +18 to +30 100 +11 to +13 0.5 - 1.5 IEEE 1451.4 10	mA VDC Ω VDC sec IEEE 1451.4 GΩ																																						
																																											
																																											
																																											
						Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3333A5T for more information.																																					



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