

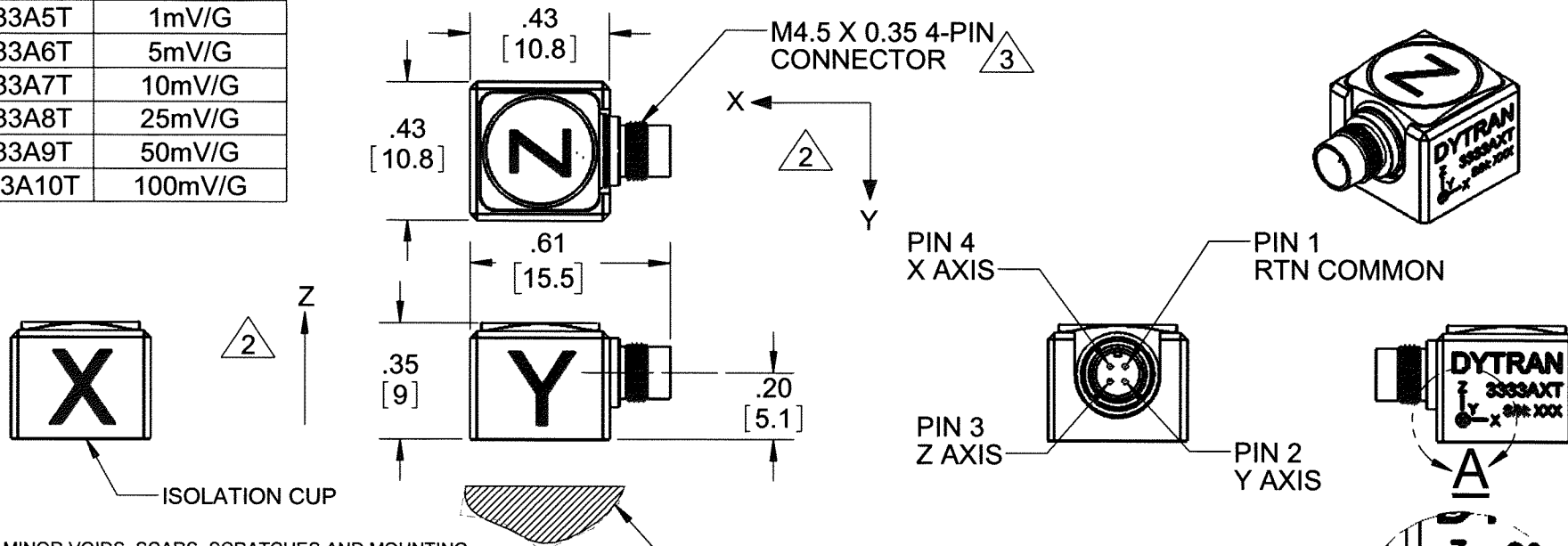
PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14677	INITIAL RELEASE, SAME AS X1	RA 11/13/18	DP	LW

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

CONTRACT NO.



TITLE: **OUTLINE/INSTALLATION
DWG, ACCELEROMETER,
TRIAxIAL, 3333A5T, TEDS**

APPROVALS		DATE
ORIG	R.A.	11/08/18
CHK	DP	11/20/18
APP	LW	11/29/18
APP		

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3333A5T	A
SCALE: 2:1		SOLIDWORKS	SHEET 1 OF 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.	
3333A5T	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.
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

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		
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

MODEL NUMBER 3333A5T		PERFORMANCE SPECIFICATION				DOC NO PS3333A5T																																					
		Accelerometer, Triaxial, IEPE			REV A, ECN 14677, 11/16/18																																						
		• 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.				Supplied Accessories: 1) Accredited calibration certificate (ISO 17025)																																					
						Notes: [1] M4.5 X 0.35 Connector. Mates with Dytran cable Model 6893AXX. [2] Measured at 100Hz, 5 Grms per ISA RP 37.2. [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, 20 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.																																					
PHYSICAL Weight, Max Mounting Connector [1]		Type																																									
		Material																																									
		Housing																																									
		Sensing Element																																									
		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 Hz																																									
		10 Hz																																									
		100 Hz																																									
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		62900		617049																																							
		1100		10791																																							
		670		6573																																							
		310		3041																																							
		160		1570																																							
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		0.06		0.59																																							
		g/με		m/s ² /με																																							
ENVIRONMENTAL Shock Max Vibration Max Operating Temperature TEDS Operating Temperature Seal Base Strain Sensitivity		7000		68670																																							
		6000		58860																																							
		-60 to +225		-51 to +107																																							
		-40 to +185		-40 to +85																																							
		Hermetic		Hermetic																																							
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		g/με		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		2 to 20																																							
		+18 to +30		+18 to +30																																							
		100		100																																							
		+11 to +13		+11 to +13																																							
		0.5 - 1.5		0.5 - 1.5																																							
		IEEE 1451.4		IEEE 1451.4																																							
		10		10																																							
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		μGrms/sqr(Hz)		μm/s ² rms/sqr(Hz)																																							
		μGrms/sqr(Hz)		μm/s ² rms/sqr(Hz)																																							
		μGrms/sqr(Hz)		μm/s ² rms/sqr(Hz)																																							
		μGrms/sqr(Hz)		μm/s ² rms/sqr(Hz)																																							
		μGrms/sqr(Hz)		μm/s ² rms/sqr(Hz)																																							
		m/s ²		m/s ²																																							
		m/s ²		m/s ²																																							
		°F		°C																																							
		°F		°C																																							
		Hermetic		Hermetic																																							
		0.06		0.59																																							
		g/με		m/s ² /με																																							
		mV/g		mV/m/s ²																																							
		Gpeak		m/s ² peak																																							
		Hz		Hz																																							
		kHz		kHz																																							
		%F.S.		%F.S.																																							
		%		%																																							
		Grms		m/s ² rms																																							
		μGrms/sqr(Hz)		μm/s ² rms/sqr(Hz)																																							
		μGrms/sqr(Hz)		μm/s ² rms/sqr(Hz)																																							

