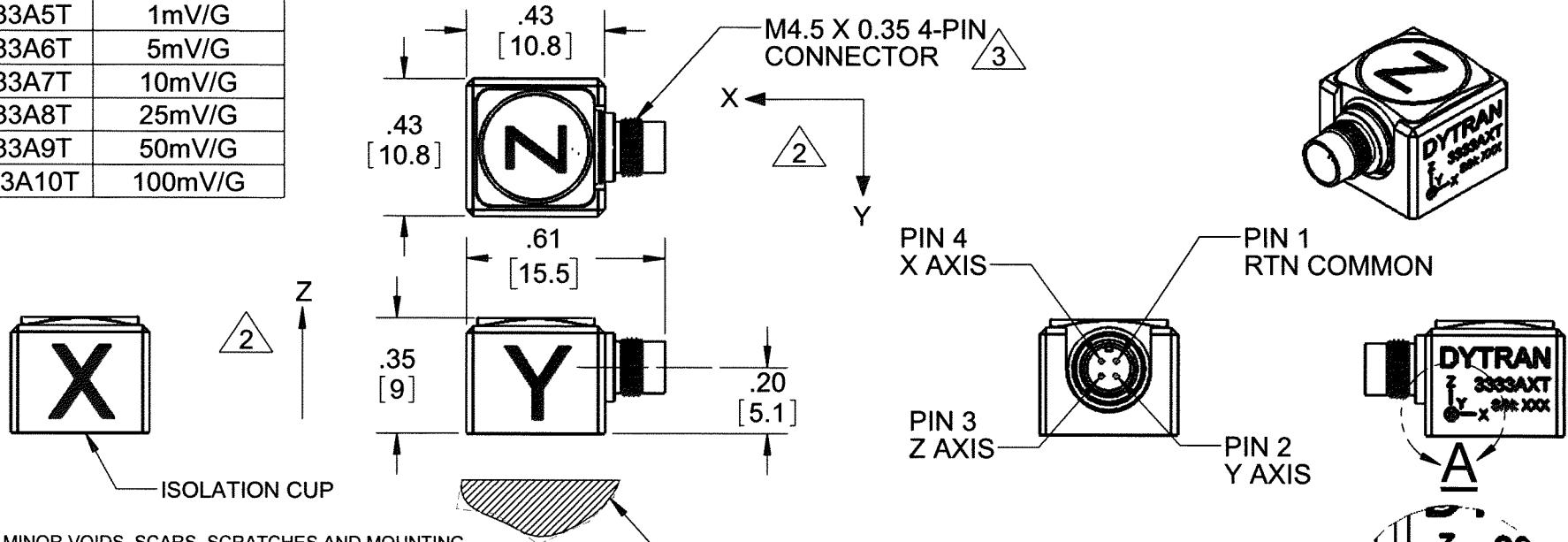


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REVISIONS

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



- 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
- 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.



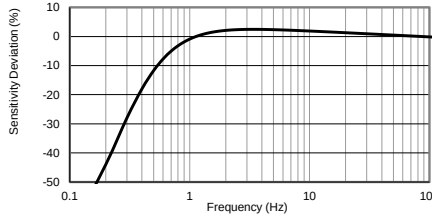
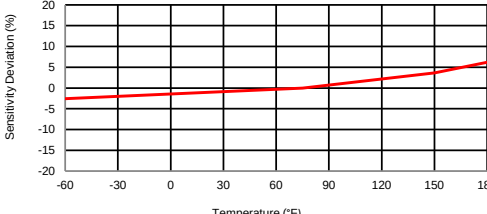
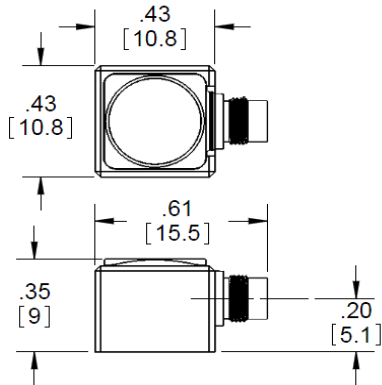
TITLE: **OUTLINE/INSTALLATION
DWG, ACCELEROMETER,
TRIAxIAL, 3333A5T, TEDS**

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.	
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:	
INCHES	METRIC ANGLES
.XX ± .03	X ± 0.8 ± 1°
.XXX ± .010	.XX ± 0.25
MATERIAL	
FINISH	
DO NOT SCALE DRAWING	

MODEL NUMBER 3333A10T		PERFORMANCE SPECIFICATION				DOC NO PS3333A10T																																				
		Accelerometer, Triaxial, IEPE			REV B, ECN 15776, 06/02/20																																					
		• ULTRA LOW FREQUENCY RESPONSE • ULTRA LOW NOISE LEVEL • HERMETICALLY SEALED • CASE ISOLATED • TEDS FEATURE																																								
PHYSICAL		ENGLISH		SI																																						
Weight, Max		0.14	oz	4.0	grams																																					
Mounting		Adhesive		Adhesive																																						
Connector [1]	Type	4-pin		4-pin																																						
	Material	Ti-6 Al-4V		Ti-6 Al-4V																																						
Housing	Material	Ti-6 Al-4V		Ti-6 Al-4V																																						
Isolation Cup	Material	Anodized Aluminum		Anodized Aluminum																																						
Sensing Element	Material	Ceramic		Ceramic																																						
	Mode	Shear		Shear																																						
PERFORMANCE		ENGLISH		SI																																						
Sensitivity, +15/-10% [2]		100	mV/g	10.19	mV/m/s ²																																					
Acceleration Range,		50	Gpeak	491	m/s ² peak																																					
Frequency Range, +15/-10%		.54-10,000	Hz	.54-10,000	Hz																																					
Resonance Frequency		>24	kHz	>24	kHz																																					
Linearity [3]		1	%F.S.	1	%F.S.																																					
Transverse Sensitivity Max		6	%	6	%																																					
Noise floor, Max		0.00095	Grms	0.009	m/s ² rms																																					
Spectral Noise	1Hz	207	μGrms/sqr(Hz)	2031	μm/s ² rms/sqr(Hz)																																					
	10Hz	52	μGrms/sqr(Hz)	510	μm/s ² rms/sqr(Hz)																																					
	100Hz	32	μGrms/sqr(Hz)	314	μm/s ² rms/sqr(Hz)																																					
	1000Hz	11	μGrms/sqr(Hz)	108	μm/s ² rms/sqr(Hz)																																					
	10000Hz	18	μGrms/sqr(Hz)	177	μm/s ² rms/sqr(Hz)																																					
ENVIRONMENTAL		ENGLISH		SI																																						
Shock Max		5000	g pk	49050	m/s ⁻																																					
Vibration Max		3000	g pk	29430	m/s ⁻																																					
Operating Temperature		-60 to +180	°F	-51 to +82	°C																																					
TEDS Operating Temperature		-40 to +185	°F	-40 to +85	°C																																					
Seal		Hermetic		Hermetic																																						
Base Strain Sensitivity		0.02	g/με	0.20	m/s ² /με																																					
ELECTRICAL		ENGLISH		SI																																						
Supply Current Range [4]		2 to 20	mA	2 to 20	mA																																					
Compliance Voltage Range		+18 to +30	VDC	+18 to +30	VDC																																					
Output Impedance, Typ.		100	Ω	100	Ω																																					
Output Bias Voltage		+11 to +13	VDC	+11 to +13	VDC																																					
Discharge Time Constant		0.5 - 1.5	sec	0.5 - 1.5	sec																																					
TEDS Feature		IEEE 1451.4		IEEE 1451.4																																						
Case Isolation		10	GΩ	10	GΩ																																					
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>3333A5T</td><td>1</td><td>5000</td><td>0.03</td><td>-60 to +225</td><td>0.5 - 1.5</td></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></table> 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, 1 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. 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. TYPICAL LOW FREQUENCY RESPONSE  TYPICAL TEMPERATURE RESPONSE   Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3333A5T for more information.							Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	Time Constant (sec)	3333A5T	1	5000	0.03	-60 to +225	0.5 - 1.5	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
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