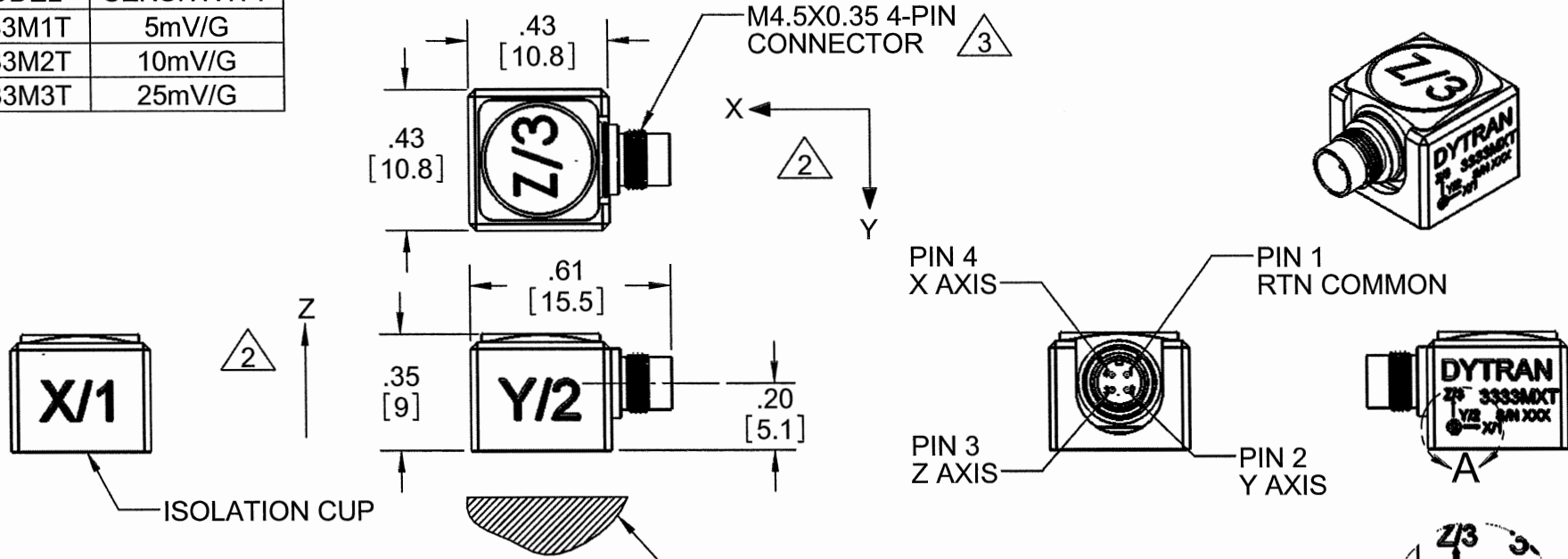


PROPRIETARY AND CONFIDENTIAL

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REVISIONS				
REV	ECN	DESCRIPTION	BY/DATE	CHK APPR
B	8002	REVISED MARKING PER CUSTOMER REQUEST	JS 11/09/11	

MODEL	SENSITIVITY
3333M1T	5mV/G
3333M2T	10mV/G
3333M3T	25mV/G



- 4. HOUSING/CONNECTOR MATERIAL: TITANIUM
ISOLATION CUP: ALUMINUM ALLOY 6061-T6, BLACK ANODIZED
- MATES WITH 6893AXX CABLE
- ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT

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

1. WEIGHT: 2.8 GRAMS

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. 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		CONTRACT NO.	
USED ON	NEXT ASSY	MATERIAL		APPROVALS	
APPLICATION		FINISH		ORIG	DATE
THIRD ANGLE PROJECTION USA		DO NOT SCALE DRAWING		CHK	DATE
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.				APP	DATE

DYTRAN MASTER INSTRUMENTS, INC.
 ONLY IF IN RED
 Davis, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, 3333MT SERIES**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3333MT	B

SCALE: 2:1 SOLIDWORKS SHEET 1 OF 1

172-0081, REV C

MODEL NUMBER 3333M1T	PERFORMANCE SPECIFICATION	DOC NO PS3333M1T
	Accelerometer, Triaxial, IEPE	REV A, ECN 7441 , 05/18/11



- **ULTRA LOW FREQUENCY RESPONSE**
- **ULTRA LOW NOISE LEVEL**
- **CASE ISOLATED**

PHYSICAL

Weight, Max
Mounting
Connector [1]
Housing
Isolation Cup
Sensing Element

	ENGLISH		SI	
Type	0.14	oz	4.0	grams
Material	Adhesive		Adhesive	
Material	4-pin		4-pin	
Material	Ti-6 AL-4V		Ti-6 AL-4V	
Material	Ti-6 AL-4V		Ti-6 AL-4V	
Material	Anodized Aluminum		Anodized Aluminum	
Material	Ceramic		Ceramic	
Mode	Shear		Shear	

PERFORMANCE

	ENGLISH		SI	
Sensitivity, +15-10% [2]	5	mV/g	0.51	mV/m/s ²
Acceleration Range,	+/-1000	Gpeak	+/- 9810	m/s ² peak
Frequency Range, +15/-10%	.65-10,000	Hz	.65-10,000	Hz
Resonance Frequency	>24	kHz	>24	kHz
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity Max	6	%	6	%
Noise floor	0.0072	Grms	0.071	m/s ² rms
Spectral Noise	1Hz	1258	12341	µm/s ² rms/sqr(Hz)
	10Hz	220	2158	µm/s ² rms/sqr(Hz)
	100Hz	134	1315	µm/s ² rms/sqr(Hz)
	1000Hz	62	608	µm/s ² rms/sqr(Hz)
	10000Hz	32	314	µm/s ² rms/sqr(Hz)

ENVIRONMENTAL

Shock Max	5000	g pk	49050	m/s ²
Vibration Max	3000	g pk	29430	m/s ²
Operating Temperature	-60 to +250	°F	-51 to +121	°C
Seal	Hermetic			
Base Strain Sensitivity	0.02	g/µε	0.20	m/s ² /µε

ELECTRICAL

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 [5]	IEEE 1451.4		IEEE 1451.4	
Case Isolation	10	GΩ	10	GΩ

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	Time Constant (sec)
3333M2T	10	500	0.0072	-60 to +225	0.5 - 1.5
3333M3T	25	200	0.0024	-60 to +185	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:

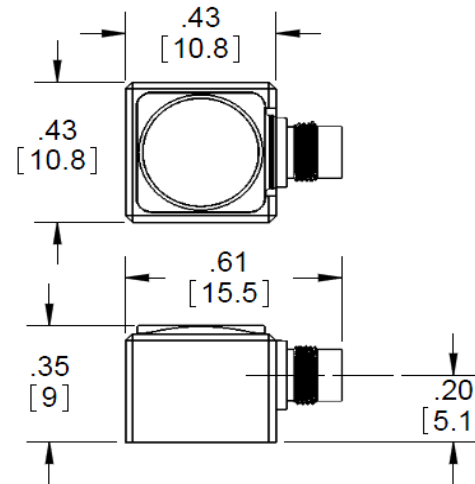
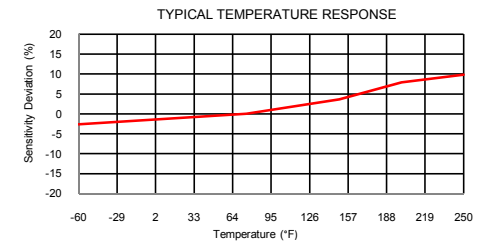
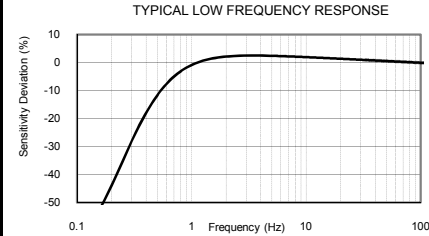
[1] M4.5 X 0.35 Connector. Mates with Dytran cable Model 6893AXX.

[2] Measured at 100Hz, 5 Grms per ISA RP 37.2.

[3] Measured using zero-based straight line method, percentage 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] TEDS operational temperature -40°C to +85°C



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3333MT for more information.



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