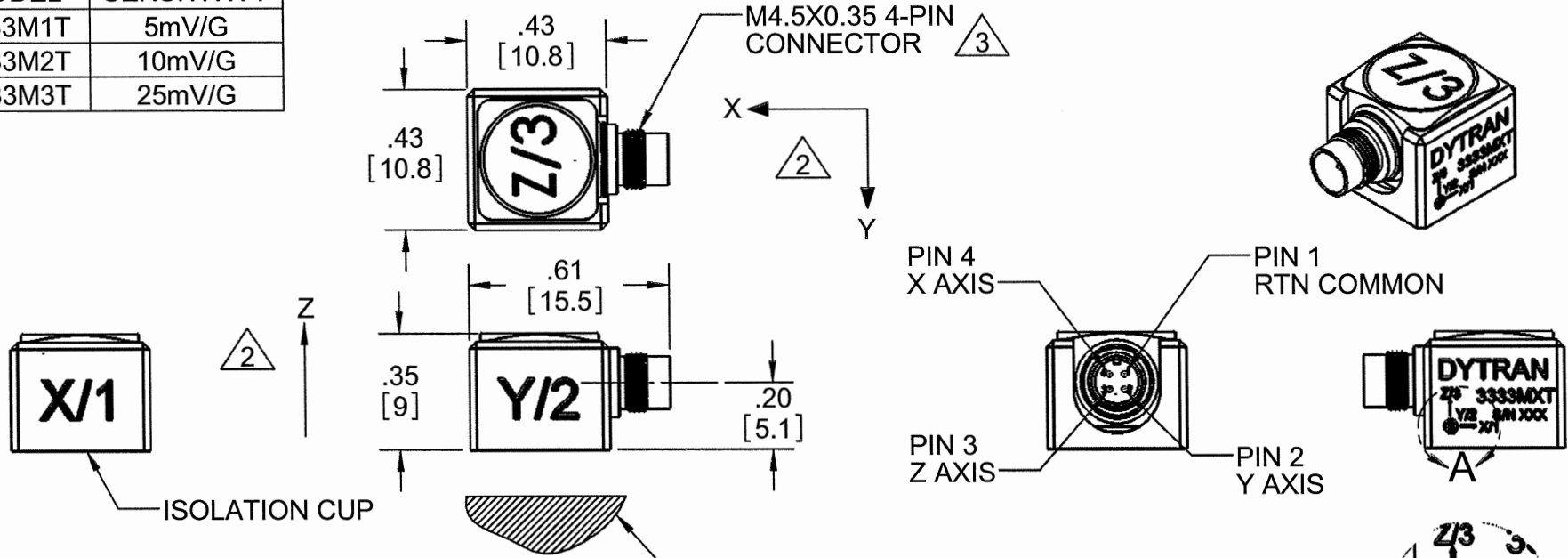


**PROPRIETARY AND CONFIDENTIAL**

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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



**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**

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

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 ± 0.10    .XX ± 0.25	
USED ON	NEXT ASSY	MATERIAL	
APPLICATION		FINISH	
THIRD ANGLE PROJECTION USA		DO NOT SCALE DRAWING	
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.		APPROVALS	
		ORIG	RA
		CHK	JS
		APP	DV
		DATE	03/30/11
		DATE	06/01/11
		DATE	06/16/11

CONTRACT NO.

**DYTRAN MASTER**  
 INSTRUMENTS, INC. **ONLY IF IN RED**  
 Ingersoll, CA

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

SIZE	CAGE CODE	DWG. NO.	REV
<b>A</b>	<b>2W033</b>	<b>127-3333MT</b>	<b>B</b>

SCALE: 2:1      SOLIDWORKS      SHEET 1 OF 1

<b>MODEL NUMBER</b> 3333M2T	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS3333M2T
	<b>Accelerometer, Triaxial, IEPE</b>	REV A, ECN 7441, 05/18/11



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

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

**PHYSICAL**

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

Type  
Material  
Material  
Material  
Material  
Mode

**PERFORMANCE**

Sensitivity, +15-10% [2]  
Acceleration Range,  
Frequency Range, +15/-10%  
Resonance Frequency  
Linearity [3]  
Transverse Sensitivity Max  
Noise floor, Max  
Spectral Noise

1Hz  
10Hz  
100Hz  
1000Hz  
10000Hz

10	mV/g	1.02	mV/m/s <sup>2</sup>
+/- 500	Gpeak	+/- 4905	m/s <sup>2</sup> peak
.65-10,000	Hz	.65-10,000	Hz
>24	kHz	>24	kHz
1	%F.S.	1	%F.S.
6	%	6	%
0.0036	Grms	0.035	m/s <sup>2</sup> rms
629	μGrms/sqr(Hz)	6170	μm/s <sup>2</sup> rms/sqr(Hz)
110	μGrms/sqr(Hz)	1079	μm/s <sup>2</sup> rms/sqr(Hz)
67	μGrms/sqr(Hz)	657	μm/s <sup>2</sup> rms/sqr(Hz)
31	μGrms/sqr(Hz)	304	μm/s <sup>2</sup> rms/sqr(Hz)
16	μGrms/sqr(Hz)	157	μm/s <sup>2</sup> rms/sqr(Hz)

**ENVIRONMENTAL**

Shock Max  
Vibration Max  
Operating Temperature  
Seal  
Base Strain Sensitivity

5000	g pk	49050	m/s <sup>4</sup>
3000	g pk	29430	m/s <sup>4</sup>
-60 to +225	°F	-51 to +107	°C
Hermetic		Hermetic	
0.02	g/με	0.20	m/s <sup>4</sup> /με

**ELECTRICAL**

Supply Current Range [4]  
Compliance Voltage Range  
Output Impedance, Typ.  
Output Bias Voltage  
Discharge Time Constant  
TEDS Feature [5]  
Case Isolation

2 to 20	mA	2 to 20	mA
+18 to +30	VDC	+18 to +30	VDC
100	Ω	100	Ω
11 to 13	VDC	11 to 13	VDC
0.5 - 1.5	sec	0.5 - 1.5	sec
IEEE 1451.4		IEEE 1451.4	
10	GΩ	10	GΩ

**This family also includes:**

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	Time Constant (sec)
3333M1T	5	1000	0.0072	-60 to +250	0.5 to 1.5
3333M3T	25	200	0.0024	-60 to +185	0.5 to 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:**

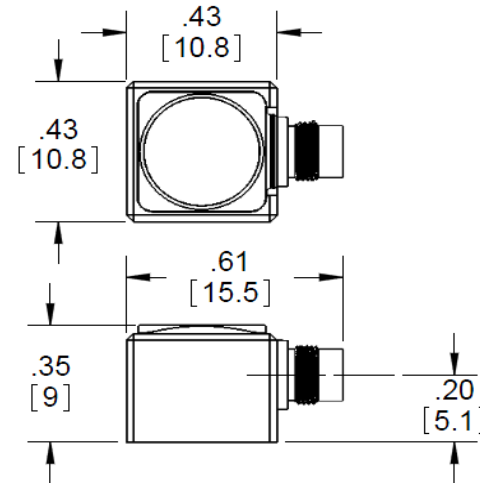
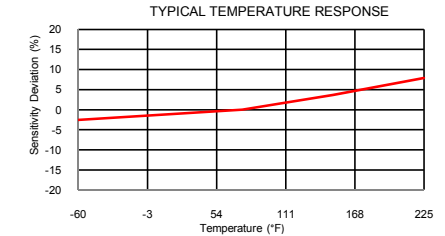
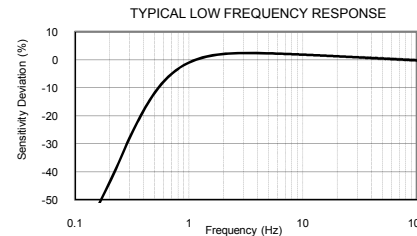
[1] M4.5 X 0.35 Connector. Mates with Dytran cable Model 6893AXX.

[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] 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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