

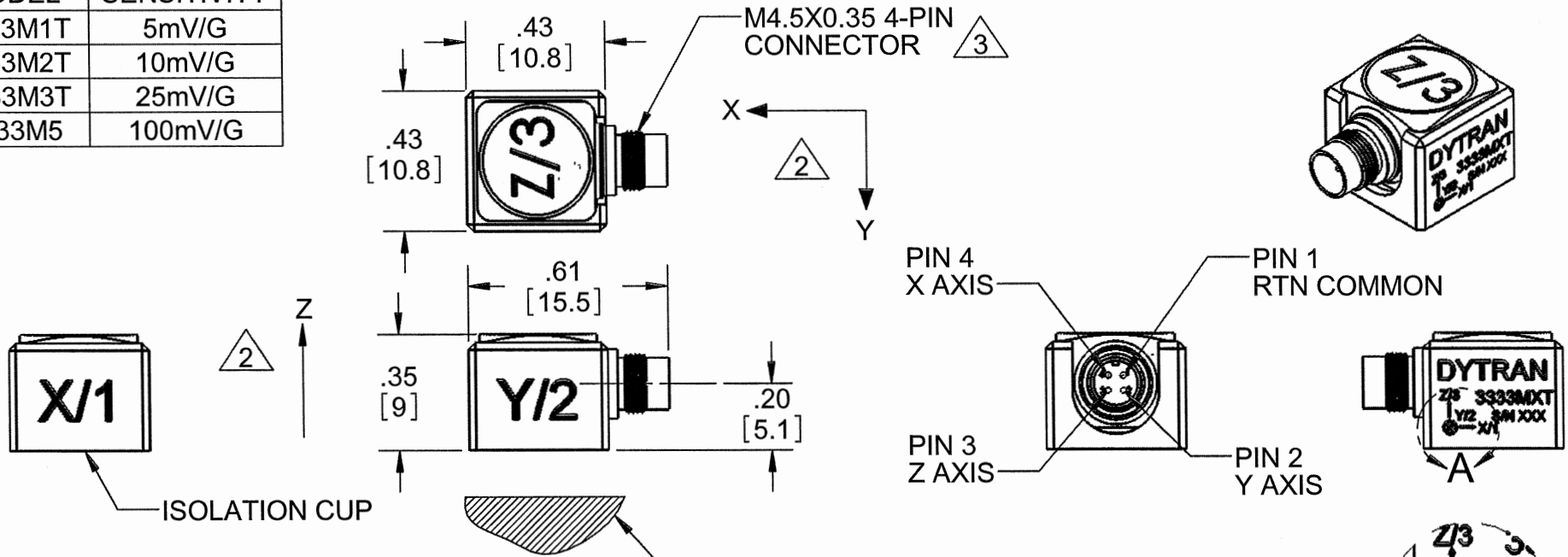
**PROPRIETARY AND CONFIDENTIAL**

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**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	9198	INITIAL RELEASE OF 3333M5	AB 09/25/12	41	AS

MODEL	SENSITIVITY
3333M1T	5mV/G
3333M2T	10mV/G
3333M3T	25mV/G
3333M5	100mV/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

3 MATES WITH 6893AXX CABLE

2 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 ± .010    .XX ± 0.25
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
ALL MACHINED SURFACES TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER MIL-A2.4. ABBREVIATIONS PER MIL-STD-12.	

CONTRACT NO.



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

APPROVALS		DATE
ORIG	RA	03/30/11
CHK	JS	06/01/11
APP	DV	06/16/11
APP		

SIZE <b>A</b>	CAGE CODE <b>2W033</b>	DWG. NO. <b>127-3333MT</b>	REV <b>C</b>
SCALE: 2:1		SOLIDWORKS	SHEET 1 OF 1

<b>MODEL NUMBER</b> 3333M3T	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS3333M3T
	<b>Accelerometer, Triaxial, IEPE</b>	REV B, ECN 11192, 07/25/14



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

**PHYSICAL**

Weight, Max	0.14	oz	4.0	grams
Mounting	Adhesive		Adhesive	
Connector [1]	4-pin	Type	4-pin	
		Material	Ti-6 AL-4V	
Housing	Ti-6 AL-4V	Material	Ti-6 AL-4V	
Isolation Cup	Anodized Aluminum	Material	Anodized Aluminum	
Sensing Element	Ceramic	Material	Ceramic	
	Shear	Mode	Shear	

ENGLISH		SI	
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**PERFORMANCE**

	ENGLISH	SI
Sensitivity, +15-10% [2]	25	mV/g
Acceleration Range, Gpeak	+/- 200	m/s <sup>2</sup> peak
Frequency Range, +15/-10%	.65-10,000	Hz
Resonance Frequency	>24	kHz
Linearity [3]	1	%F.S.
Transverse Sensitivity Max	6	%
Noise floor	0.0024	Grms
Spectral Noise		
1Hz	419	μGrms/sqr(Hz)
10Hz	73	μGrms/sqr(Hz)
100Hz	45	μGrms/sqr(Hz)
1000Hz	21	μGrms/sqr(Hz)
10000Hz	11	μGrms/sqr(Hz)

**ENVIRONMENTAL**

	ENGLISH	SI
Shock Max	5000	g pk
Vibration Max	3000	g pk
Operating Temperature	-60 to +225	°F
Seal	Hermetic	
Base Strain Sensitivity	0.02	g/με

**ELECTRICAL**

	ENGLISH	SI
Supply Current Range [4]	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC
Output Impedance, Typ.	100	Ω
Output Bias Voltage	11 to 13	VDC
Discharge Time Constant	0.5 - 1.5	sec
TEDS Feature [5]	IEEE 1451.4	
Case Isolation	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 - 1.5
3333M2T	10	500	0.0036	-60 to +225	0.5 - 1.5

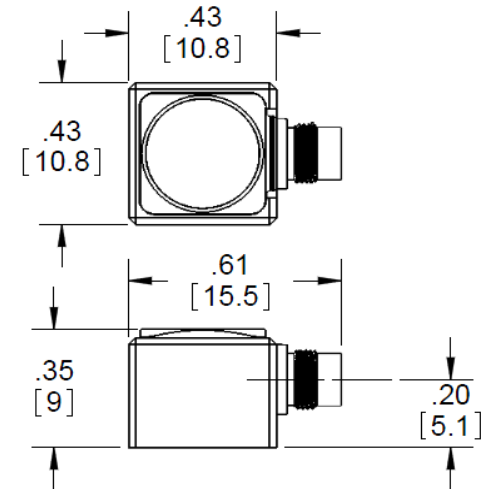
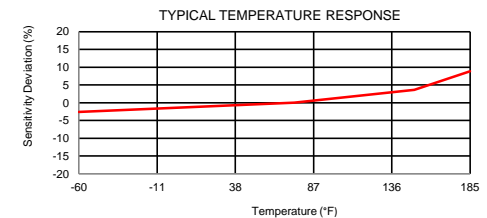
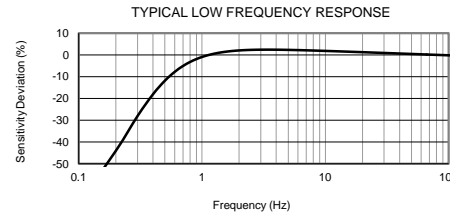
Refer to the performance specifications of the products in this family for detailed description

**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] 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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