

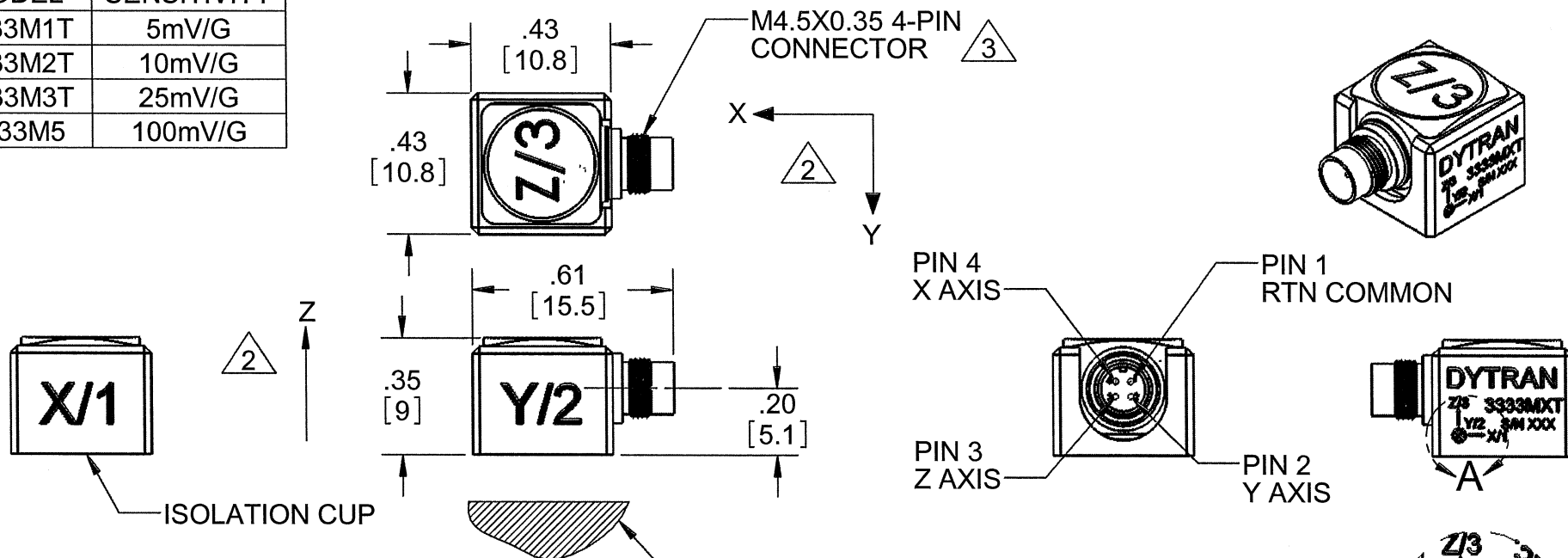
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	9198	INITIAL RELEASE OF 3333M5	AB 09/25/12	41	A5

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.

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.	
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION	
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

CONTRACT NO.


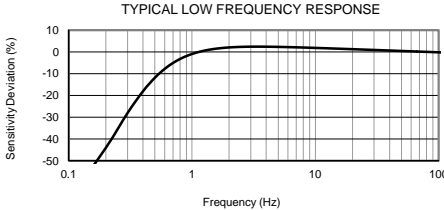
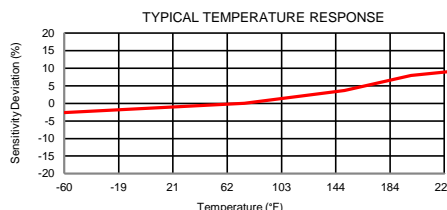
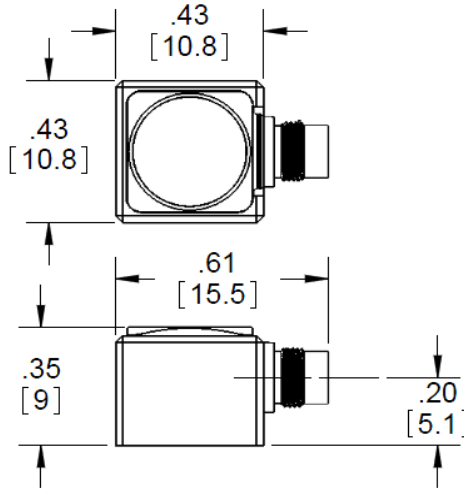

APPROVALS		DATE
ORIG	RA	03/30/11
CHK	JS	06/01/11
APP	DV	06/16/11
APP		



TITLE:

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

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

MODEL NUMBER 3333M3T		PERFORMANCE SPECIFICATION				DOC NO PS3333M3T																			
				Accelerometer, Triaxial, IEPE		REV C, ECN 12879, 08/12/16																			
		<ul style="list-style-type: none">• ULTRA LOW FREQUENCY RESPONSE• ULTRA LOW NOISE LEVEL• CASE ISOLATED				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>3333M1T</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>3333M2T</td><td>10</td><td>500</td><td>0.0036</td><td>-60 to +225</td><td>0.5 - 1.5</td></tr></table>		Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(*F)	Time Constant (sec)	3333M1T	5	1000	0.0072	-60 to +225	0.5 - 1.5	3333M2T	10	500	0.0036	-60 to +225	0.5 - 1.5
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(*F)	Time Constant (sec)																				
3333M1T	5	1000	0.0072	-60 to +225	0.5 - 1.5																				
3333M2T	10	500	0.0036	-60 to +225	0.5 - 1.5																				
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																									
Sensitivity, +15-10% [2]		25	mV/g	2.55	mV/m/s ²																				
Acceleration Range,		+/- 200	Gpeak	+/- 1962	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		0.0024	Grms	0.024	m/s ² rms																				
Spectral Noise	1Hz	419	μGrms/sqr(Hz)	4110	μm/s ² rms/sqr(Hz)																				
	10Hz	73	μGrms/sqr(Hz)	716	μm/s ² rms/sqr(Hz)																				
	100Hz	45	μGrms/sqr(Hz)	441	μm/s ² rms/sqr(Hz)																				
	1000Hz	21	μGrms/sqr(Hz)	206	μm/s ² rms/sqr(Hz)																				
	10000Hz	11	μGrms/sqr(Hz)	108	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 +225	°F	-51 to +107	°C																				
Seal		Hermetic		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																				
		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																							
		<div><div><p>TYPICAL LOW FREQUENCY RESPONSE</p></div><div><p>TYPICAL TEMPERATURE RESPONSE</p></div></div> <div></div>																							
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3333MT for more information.																							
		21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com																							