

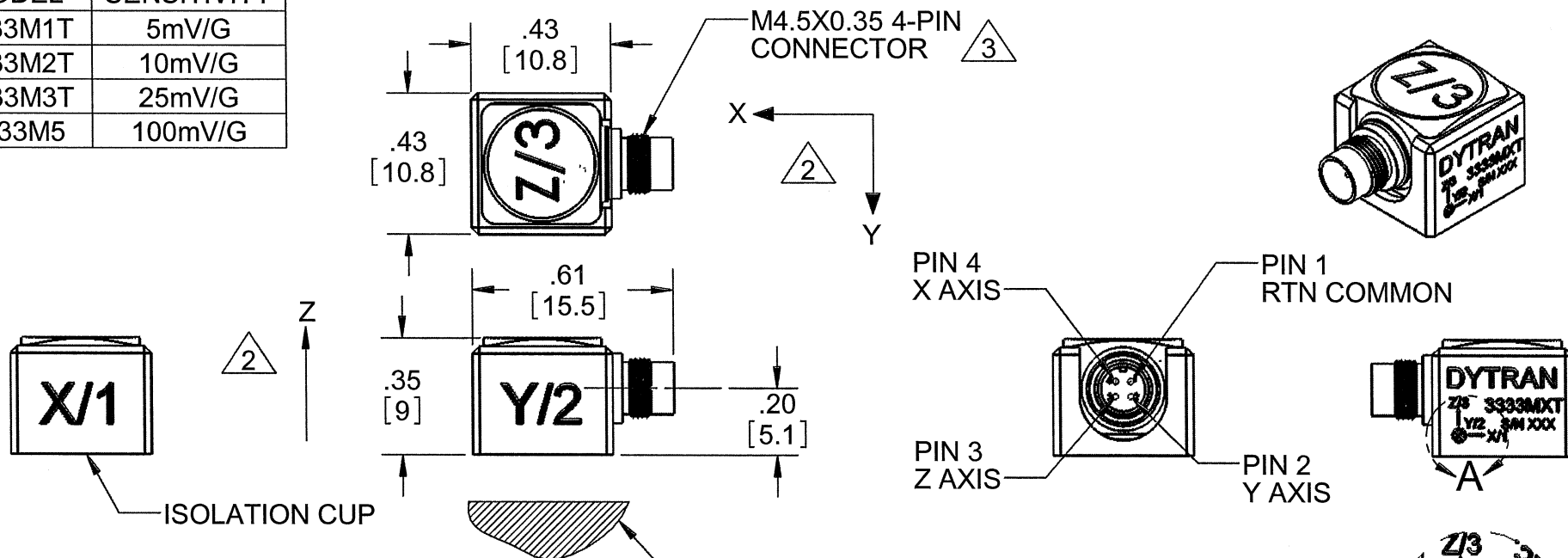
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REVISIONS

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		


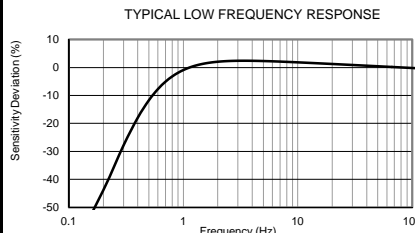
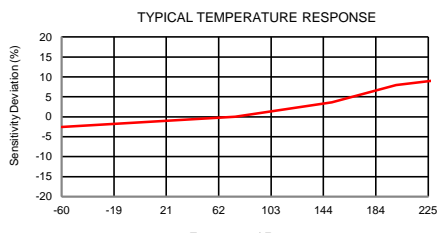
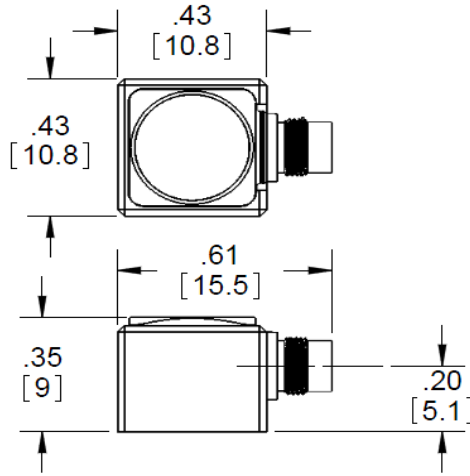
CONTRACT NO.




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 3333M2T		PERFORMANCE SPECIFICATION				DOC NO PS3333M2T																																																					
		Accelerometer, Triaxial, IEPE			REV B, 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 to 1.5</td></tr><tr><td>3333M3T</td><td>25</td><td>200</td><td>0.0024</td><td>-60 to +225</td><td>0.5 to 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 to 1.5	3333M3T	25	200	0.0024	-60 to +225	0.5 to 1.5																																		
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		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																																																									
PHYSICAL Weight, Max Mounting Connector [1] Housing Isolation Cup Sensing Element		Type Material Material Material Material Mode	<table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>0.14</td><td>oz</td><td>4.0</td><td>grams</td></tr><tr><td>Adhesive</td><td></td><td>Adhesive</td><td></td></tr><tr><td>4-pin</td><td></td><td>4-pin</td><td></td></tr><tr><td>Ti-6 AL-4V</td><td></td><td>Ti-6 AL-4V</td><td></td></tr><tr><td>Ti-6 AL-4V</td><td></td><td>Ti-6 AL-4V</td><td></td></tr><tr><td>Anodized Aluminum</td><td></td><td>Anodized Aluminum</td><td></td></tr><tr><td>Ceramic</td><td></td><td>Ceramic</td><td></td></tr><tr><td>Shear</td><td></td><td>Shear</td><td></td></tr></table>	ENGLISH		SI		0.14	oz	4.0	grams	Adhesive		Adhesive		4-pin		4-pin		Ti-6 AL-4V		Ti-6 AL-4V		Ti-6 AL-4V		Ti-6 AL-4V		Anodized Aluminum		Anodized Aluminum		Ceramic		Ceramic		Shear		Shear																					
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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	<table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>10</td><td>mV/g</td><td>1.02</td><td>mV/m/s²</td></tr><tr><td>+/- 500</td><td>Gpeak</td><td>+/- 4905</td><td>m/s² peak</td></tr><tr><td>.65-10,000</td><td>Hz</td><td>.65-10,000</td><td>Hz</td></tr><tr><td>>24</td><td>kHz</td><td>>24</td><td>kHz</td></tr><tr><td>1</td><td>%F.S.</td><td>1</td><td>%F.S.</td></tr><tr><td>6</td><td>%</td><td>6</td><td>%</td></tr><tr><td>0.0036</td><td>Grms</td><td>0.035</td><td>m/s²rms</td></tr><tr><td>629</td><td>µGrms/sqr(Hz)</td><td>6170</td><td>µm/s² rms/sqr(Hz)</td></tr><tr><td>110</td><td>µGrms/sqr(Hz)</td><td>1079</td><td>µm/s² rms/sqr(Hz)</td></tr><tr><td>67</td><td>µGrms/sqr(Hz)</td><td>657</td><td>µm/s² rms/sqr(Hz)</td></tr><tr><td>31</td><td>µGrms/sqr(Hz)</td><td>304</td><td>µm/s² rms/sqr(Hz)</td></tr><tr><td>16</td><td>µGrms/sqr(Hz)</td><td>157</td><td>µm/s² rms/sqr(Hz)</td></tr></table>	ENGLISH		SI		10	mV/g	1.02	mV/m/s ²	+/- 500	Gpeak	+/- 4905	m/s ² 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 ² rms	629	µGrms/sqr(Hz)	6170	µm/s ² rms/sqr(Hz)	110	µGrms/sqr(Hz)	1079	µm/s ² rms/sqr(Hz)	67	µGrms/sqr(Hz)	657	µm/s ² rms/sqr(Hz)	31	µGrms/sqr(Hz)	304	µm/s ² rms/sqr(Hz)	16	µGrms/sqr(Hz)	157	µm/s ² rms/sqr(Hz)				
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ENVIRONMENTAL Shock Max Vibration Max Operating Temperature TEDs Operating Temperature Seal Base Strain Sensitivity		5000 3000 -60 to +225 -40 to +185 Hermetic 0.02	g pk g pk °F °F g/µε	<table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>49050</td><td>m/s²</td><td>49050</td><td>m/s²</td></tr><tr><td>29430</td><td>m/s²</td><td>29430</td><td>m/s²</td></tr><tr><td>-51 to +107</td><td>°C</td><td>-51 to +107</td><td>°C</td></tr><tr><td>-40 to +85</td><td>°C</td><td>-40 to +85</td><td>°C</td></tr><tr><td>Hermetic</td><td></td><td>Hermetic</td><td></td></tr><tr><td>0.20</td><td>m/s²/µε</td><td>0.20</td><td>m/s²/µε</td></tr></table>	ENGLISH		SI		49050	m/s ²	49050	m/s ²	29430	m/s ²	29430	m/s ²	-51 to +107	°C	-51 to +107	°C	-40 to +85	°C	-40 to +85	°C	Hermetic		Hermetic		0.20	m/s ² /µε	0.20	m/s ² /µε																											
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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 +18 to +30 100 11 to 13 0.5 - 1.5 IEEE 1451.4 10	mA VDC Ω VDC sec IEEE 1451.4 GΩ	<table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>2 to 20</td><td>mA</td><td>2 to 20</td><td>mA</td></tr><tr><td>+18 to +30</td><td>VDC</td><td>+18 to +30</td><td>VDC</td></tr><tr><td>100</td><td>Ω</td><td>100</td><td>Ω</td></tr><tr><td>11 to 13</td><td>VDC</td><td>11 to 13</td><td>VDC</td></tr><tr><td>0.5 - 1.5</td><td>sec</td><td>0.5 - 1.5</td><td>sec</td></tr><tr><td>IEEE 1451.4</td><td></td><td>IEEE 1451.4</td><td></td></tr><tr><td>10</td><td>GΩ</td><td>10</td><td>GΩ</td></tr></table>	ENGLISH		SI		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																							
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		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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