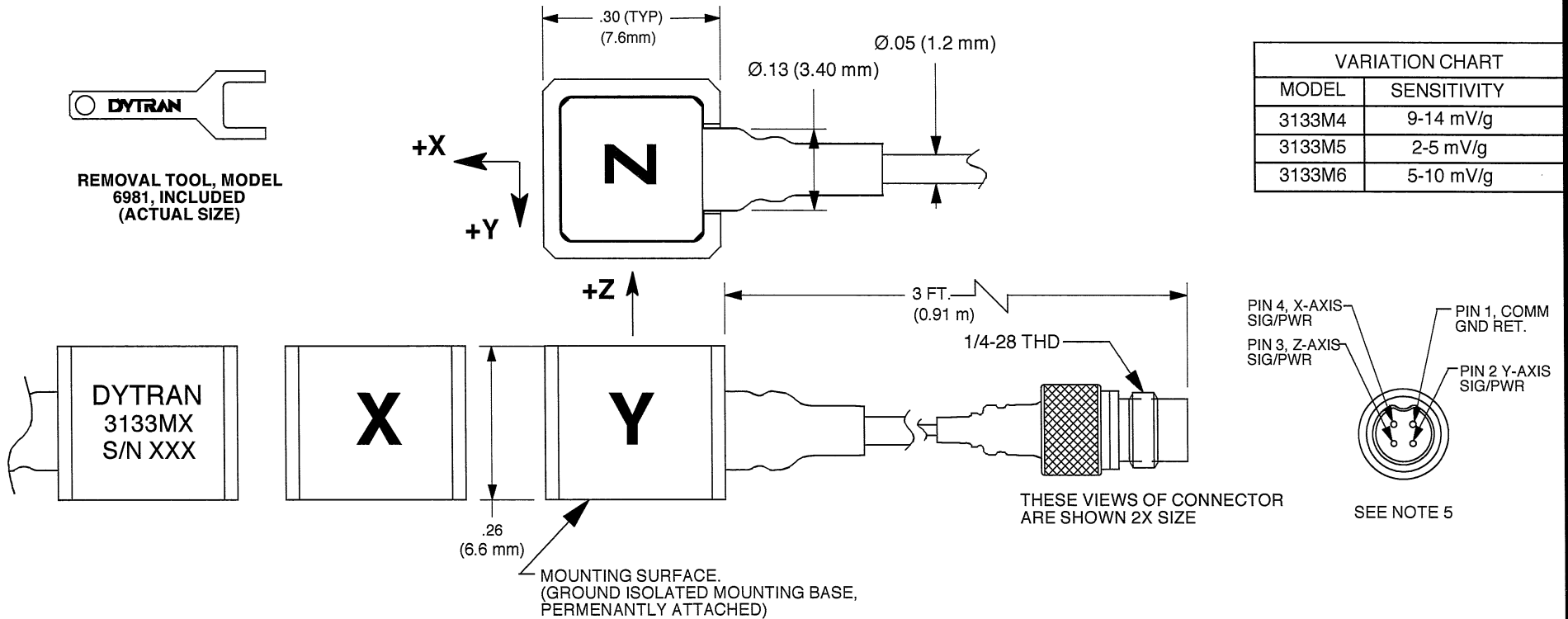


DYTRAN PROPRIETARY AND CONFIDENTIAL

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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
X2		UPDATED CUP DESIGN	RA/06-22-11		
A	7826	INITIAL RELEASE	NC/09-12-11	JS	AAS

VARIATION CHART	
MODEL	SENSITIVITY
3133M4	9-14 mV/g
3133M5	2-5 mV/g
3133M6	5-10 mV/g



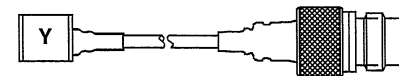
7. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN INCHES. mm DIMENSIONS ARE INDICATED BY PARENTHESES.

INCHES	METRIC	ANGLES
.XX ± .03	.X ± 0.8	± 1°
.XXX ± .010	.XX ± 0.25	

- MODEL 6298 PETRO MOUNTING WAX IS INCLUDED.
- MATING CABLES ARE MODELS 6824AXX (SANOPRENE), OR 6811AXX, (TEFLON) 4-PIN CONNECTOR TO 3 BNC'S. "XX" IS THE CABLE LENGTH IN FEET.
- HOUSING MATERIAL: TITANIUM. GND. ISO BASE: ANODIZED ALUMINUM.
- THE LETTERS "X", "Y", & "Z" INDICATE THE DIRECTION OF ACCELERATION OF EACH AXIS FOR POSITIVE GOING OUTPUT VOLTAGE (AS THE MARKED SURFACE ACCELERATES TOWARD THE VIEWER.) SEE DIRECTIONAL ARROWS ON FACE OF DRAWING.

2. FOR BEST FREQUENCY RESPONSE, PREPARE FLAT MOUNTING SURFACE OF AT LEAST .45 DIAMETER, FLAT TO .0001 TIR. APPLY ONE OR TWO DROPS OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.

1. WEIGHT, LESS CABLE: 0.9 GRAMS.



ACTUAL SIZE

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

SCALE: 4X	DESIGN: N.C.	DATE: 15-11-11		
DRAWN: N.C.	DATE: 5-11-11	PART NO.:	MODEL 3133M4	
CHECKED: D.V.	DATE: 5-12-11	MAT'L:		REV: A
APPROVED: AAS	DATE: 9/27/11	NEXT ASSEMBLY:	USED ON:	3133M4
TITLE: OUTLINE/INSTALLATION DRAWING, MODELS 3133M4, M5 & M6 GROUND-ISOLATED TRIAXIAL ACCELEROMETERS			DWG NO.: 127-3133M4	
			SHEET 1 OF 1	

Model Number 3133M6	PERFORMANCE SPECIFICATION	DOC NO PS3133M6
	Accelerometer, Triaxial, IEPE	REV A, ECN 7826, 10/07/11



- **ULTRA MINIATURE SIZE**
- **HIGH SENSITIVITY**
- **IDEAL LOW FREQUENCY RESPONSE**
- **GROUND ISOLATED**

	ENGLISH		SI	
Weight, Max	0.0315	oz	0.9	grams
Mounting	Adhesive		Adhesive	
Integral Cable Length	3	ft	914.4	mm
Connector Type	4-pin		4-pin	
Housing Material	Titanium		Titanium	
Isolation Cup Material	Anodized Al		Anodized Al	
Sensing Element Material	Ceramic		Ceramic	
Mode	Shear		Shear	

PHYSICAL

Weight, Max	0.0315	oz	0.9	grams
Mounting	Adhesive		Adhesive	
Integral Cable Length	3	ft	914.4	mm
Connector Type	4-pin		4-pin	
Housing Material	Titanium		Titanium	
Isolation Cup Material	Anodized Al		Anodized Al	
Sensing Element Material	Ceramic		Ceramic	
Mode	Shear		Shear	

PERFORMANCE

Sensitivity [1], [2], ±15%	5	mV/g	0.51	mV/m/s ²
Acceleration Range	1000	Gpeak	9810	m/s ² peak
Frequency Range Axis 1 & 2, ±10%	0.25 to 7000	Hz	0.25 to 7000	Hz
Frequency Range Axis 3, ±10%	0.25 to 10,000	Hz	0.25 to 10,000	Hz
Resonance Frequency	>35	kHz	>35	kHz
Transverse Sensitivity, Max	6	%	6	%
Noise floor, Max	0.06	Grms	0.59	m/s ² rms
Spectral Noise				
1Hz	4000	µGrms/sqr(Hz)	39240	µm/s ² rms/sqr(Hz)
10Hz	2000	µGrms/sqr(Hz)	19620	µm/s ² rms/sqr(Hz)
100Hz	500	µGrms/sqr(Hz)	4905	µm/s ² rms/sqr(Hz)
1000Hz	200	µGrms/sqr(Hz)	1962	µm/s ² rms/sqr(Hz)
10000Hz	90	µGrms/sqr(Hz)	883	µm/s ² rms/sqr(Hz)

ENVIRONMENTAL

Shock	3000	Gpeak	29430	m/s ²
Vibration	900	Gpeak	8829	m/s ²
Operating Temperature	-60 to +250	°F	-51 to +121	°C
Seal	Epoxy		Epoxy	
Base Strain Sensitivity @250µε	0.15	g/µε	1.47	m/s ² /µε

ELECTRICAL

Compliance Voltage	+18 to +30	VDC	+18 to +30	VDC
Current Range [3]	2 to 20	mA	2 to 20	mA
Discharge Time Constant	1.0 to 1.5	seconds	1.0 to 1.5	seconds
Case Isolation, Min	10	GΩ	10	GΩ
Bias Voltage	+8 to +10	VDC	+8 to +10	VDC
Output Impedance, Nom	100	Ω	100	Ω

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Noise Resolution (Grms)	Operating Temp(°F)	Time Constant (sec)
3133M4	10	500	0.02	-60 to +250	1.1 to 1.5
3133M5	2	2500	0.15	-60 to +300	0.3 to 0.5

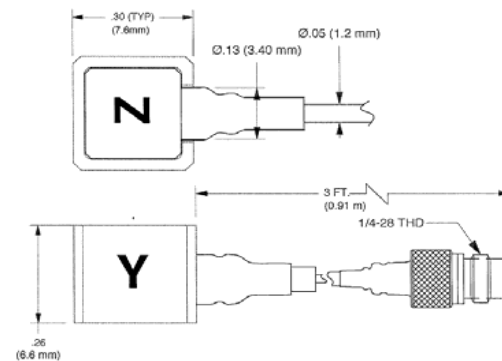
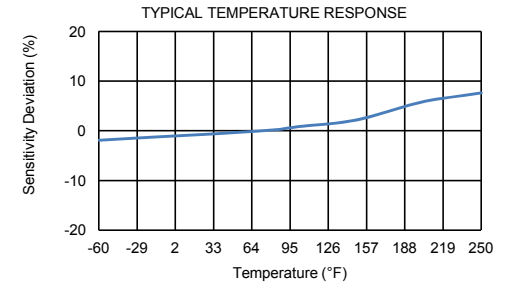
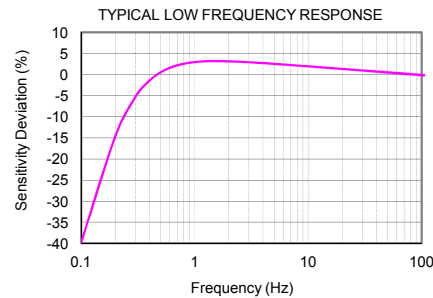
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Model 6298 small petro wax
- 2) Model 6741 removal tool
- 3) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measured at 100 Hz, 10 Grms
- [2] Actual sensitivity is given on a calibration certificate
- [3] Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3133M4 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880
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