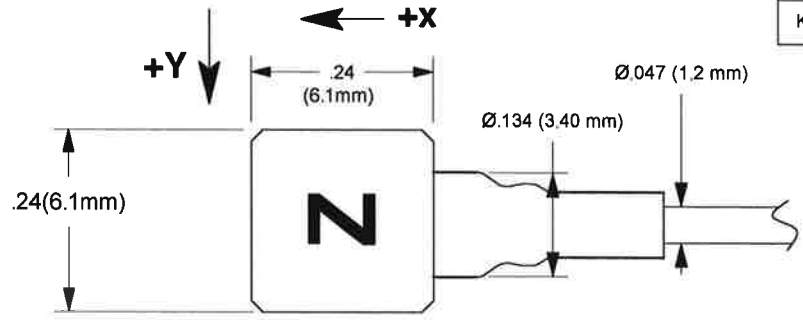


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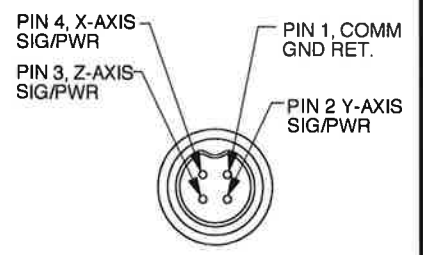
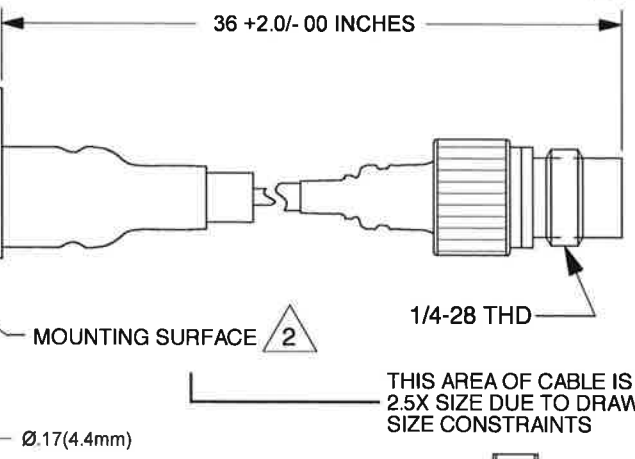
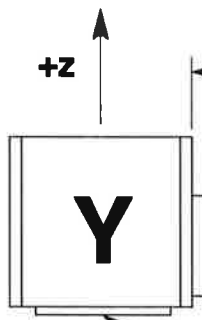
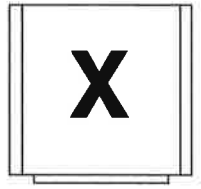
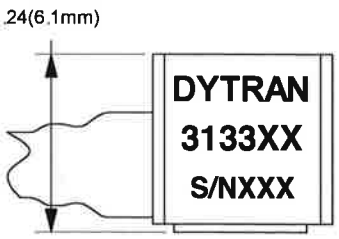
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
H	12409	UPDATED VIEW OF CONNECTOR (KNUURLING)	JS 12/15/15	LA	LN
J	12992	3133A5 SENSITIVITY WAS: 0.25 Mv/g (+/-25%)	JS 10/07/16	LA	LN
K	13061	REVISED "DYTRAN" TO REFLECT MARKING, AS SHIPPED	JS 10/07/16	RA	LJ



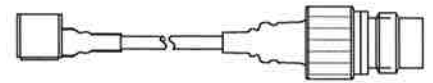
REMOVAL TOOL MODEL 6741, INCLUDED (ACTUAL SIZE)



VARIATION CHART	
MODEL	SENSITIVITY
3133A1	10 mV/g (±15%)
3133A2	2 mV/g (±25%)
3133A3	5 mV/g (±20%)
3133A4	0.7 mV/g (±25%)
3133A5	0.2 mV/g (±25%)



THIS AREA OF CABLE IS SHOWN 2.5X SIZE DUE TO DRAWING SIZE CONSTRAINTS



ACTUAL SIZE

7. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN INCHES. mm DIMENSIONS ARE INDICATED BY PARENTHESES.
6. MODEL 6298 PETRO MOUNTING WAX IS INCLUDED.
5. MATING CABLES ARE MODELS 6824AXX (SANTOPRENE), OR 6811AXX, (TEFLON) 4-PIN CONNECTOR TO 3 BNC'S. "XX" IS THE CABLE LENGTH IN FEET. EX.: CABLE MOD. 6811A3 (3 FT. NOM.).
4. HOUSING MATERIAL: TITANIUM.
3. 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 .20 DIAMETER, FLAT TO .0001 TIR. APPLY ONE DROP OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.
1. WEIGHT, LESS CABLE: 0.8 GRAMS.

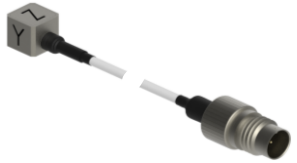
MASTER

ONLY IF IN RED

CHATSWORTH, CA

SCALE 4X	DESIGN N.C.	DATE 11-10-08			
DRAWN N.C.	DATE 11-10-08	PART NO. SEE CHART			
CHECKED D.V.	DATE 05-18-09	MAT'L			REV K
APPROVED ANS	DATE 05-26-09	NEXT ASSEMBLY	USED ON	3133A1, A2, A3, A4, A5	
TITLE OUTLINE/INSTALLATION DRAWING, MODEL SERIES 3133A TRIAXIAL ACCELEROMETERS				DWG NO. 127-3133A	
SHEET 1 OF 1					

Model Number	PERFORMANCE SPECIFICATION			DOC NO	
				PS3133A2	
3133A2	Accelerometer, Triaxial, IEPE			REV P, ECN 12956, 09/14/16	



- ULTRA MINIATURE SIZE
- IDEAL LOW FREQUENCY RESPONSE

	ENGLISH		SI	
Weight	oz	0.03	grams	0.8
Size	Width	inch	mm	6.1
	Height	inch	mm	6.1
Mounting	Adhesive		Adhesive	
	Integral Cable	ft	mm	914
Connector	Type	4-pin	Type	4-pin
	Housing	Material	Titanium	Titanium
Sensing Element	Isolation	Case Ground	Isolation	Case Ground
	Material	Quartz	Material	Quartz
	Mode	Shear	Mode	Shear

PHYSICAL

- Weight
- Size
- Mounting
- Integral Cable
- Connector
- Housing
- Sensing Element

PERFORMANCE

- Sensitivity [1], [2], ± 25%
- Acceleration Range
- Frequency Range, ±5%
- Frequency Range, ±10%
- Linearity [4]
- Resonance Frequency
- Transverse Sensitivity
- Bias Voltage
- Output Impedance
- Noise floor
- Discharge Time Constant
- Spectral Noise

		ENGLISH		SI
Sensitivity [1], [2], ± 25%	mV/g	2	mV/m/s^2	0.20
Acceleration Range	Gpeak	2500	m/s^2 peak	24525
Frequency Range, ±5%	Hz	0.7 to 6000	Hz	0.7 to 6000
Frequency Range, ±10%	Hz	0.7 to 10000	Hz	0.7 to 10000
Linearity [4]	% F.S.	± 1	% F.S.	± 1
Resonance Frequency	kHz	>35	kHz	>35
Transverse Sensitivity	%	6	%	6
Bias Voltage	VDC	+7 to +9	VDC	+7 to +9
Output Impedance	Ω	100	Ω	100
Noise floor	Grms	0.15	m/s^2 rms	1.47
Discharge Time Constant	seconds	0.3 to 2.5	seconds	0.3 to 2.5
Spectral Noise	1Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	39240
	10Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	19620
	100Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	4905
	1000Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	1962
	10000Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	883

ENVIRONMENTAL

- Shock
- Vibration
- Operating Temperature
- Seal
- Magnetic Sensitivity at 100 Gauss
- Base Strain Sensitivity

		ENGLISH		SI
Shock	Gpeak	3000	m/s^2	29430
Vibration	Gpeak	2500	m/s^2	24525
Operating Temperature	°F	-67 to +320	°C	-55 to +160
Seal		Epoxy		Epoxy
Magnetic Sensitivity at 100 Gauss	g/Gauss	0.00004	m/s^2/Gauss	0.00039
Base Strain Sensitivity	g/με	0.15	m/s^2/με	1.47

POWER

- Compliance Voltage
- Current Range

		ENGLISH		SI
Compliance Voltage	VDC	+18 to +30	VDC	+18 to +30
Current Range	mA	2 to 20	mA	2 to 20

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133A1	10	500	0.02	-67 to 320	1.0 to 1.5
3133A3	5	1000	0.06	-67 to 320	1.0 to 1.5
3133A4	1	5000	0.015	-67 to 320	0.5 to 2.5
3133A5	0.2	20000	0.35	-67 to 320	0.5 to 4.0

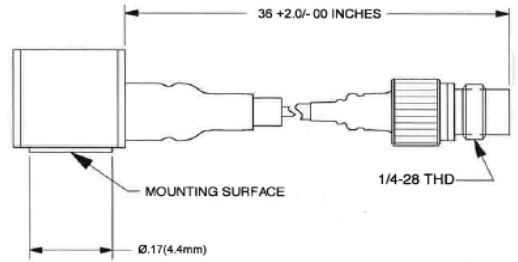
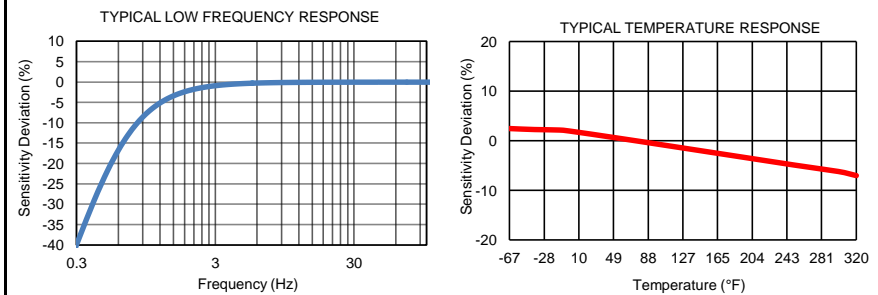
Please, refer to the performance specifications of the products in this family for detailed description

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
- [4] Measured using zero-based straight line method, % of F.S. or any lesser range.



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



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