

3133A3

PERFORMANCE SPECIFICATION

REV X1, ECN -, 11/13/08

Accelerometer, Triaxial, IEPE



Actual Size

- ULTRA MINIATURE SIZE
- HIGH SENSITIVITY
- IDEAL LOW FREQUENCY RESPONSE

PHYSICAL

		ENGLISH		SI	
Weight		oz	0.03	grams	0.8
Size	Width	inch	0.24	mm	6.10
	Height	inch	0.22	mm	5.59
Mounting			Adhesive		Adhesive
Integral Cable	Length	ft	3	mm	914.4
	Type		TFE		TFE
Connector	Type		4-pin		4-pin
Housing	Material		Titanium		Titanium
	Isolation		Case Ground		Case Ground
Sensing Element	Material		PZT-5A		PZT-5A
	Mode		Shear		Shear

PERFORMANCE

		ENGLISH		SI	
Sensitivity		mV/g	5	mV/m/s ²	0.51
Acceleration Range		Gpeak	1000	m/s ² peak	9810.00
Frequency Range, ±10%		Hz	0.4 - 30,000	Hz	0.4 - 30,000
Resonance Frequency		kHz	95	kHz	95
Transverse Sensitivity		%	5	%	5
Bias Voltage		VDC	+8 to +10	VDC	+8 to +10
Output Impedance		Ω	100	Ω	100
Noise floor		Grms	0.012	m/s ² rms	0.118
Spectral Noise	1Hz	μGrms/sqr(Hz)	1200	μm/s ² rms/sqr(Hz)	11772
	10Hz	μGrms/sqr(Hz)	1300	μm/s ² rms/sqr(Hz)	12753
	100Hz	μGrms/sqr(Hz)	470	μm/s ² rms/sqr(Hz)	4610.7
	1000Hz	μGrms/sqr(Hz)	150	μm/s ² rms/sqr(Hz)	1471.5
	10000Hz	μGrms/sqr(Hz)	50	μm/s ² rms/sqr(Hz)	490.5

ENVIRONMENTAL

		ENGLISH		SI	
Shock		g pk	3000	m/s ²	29430
Vibration		g pk	900	m/s ²	8829
Operating Temperature		°F	-60 to +300	°C	-51 to 148
Seal			Epoxy		Epoxy
Magnetic Sensitivity at 100 Gauss		g/Gauss	0.00007	m/s ² /Gauss	0.0006867
Base Strain Sensitivity		g/με	0.05	m/s ² /με	0.4905

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133A2	2	2500	0.025	-60 to 300	0.4
3133A1	10	500	0.017	-60 to 300	1.1

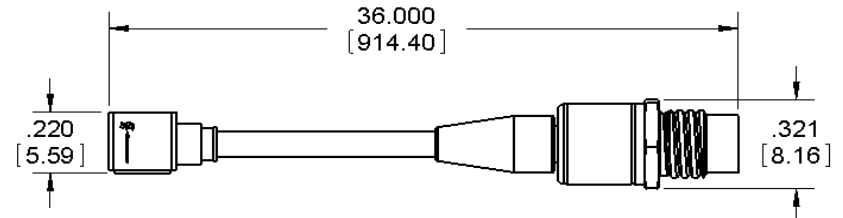
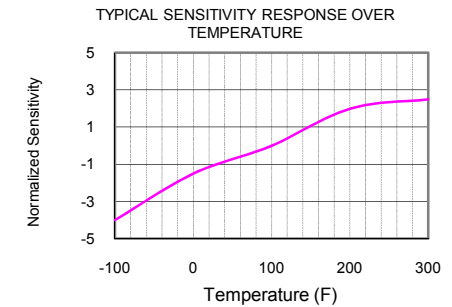
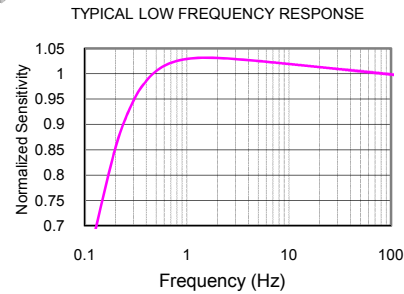
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Model 6298 Small Petro Wax
- 2) Model 6XXX Removal Tool
- 3) Accreditate 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



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