

 Model Number
 PERFORMANCE SPECIFICATION
 DOC NO

 PS3133A2
 PS3133A2

 313A2
 Accelerometer, Triaxial, IEPE
 REV U, ECN 16236, 06/23/21



• ULTRA MINIATURE SIZE

• IDEAL LOW FREQUENCY RESPONSE

		ENGLISH		SI	
PHYSICAL		Į.			
Weight		oz	0.03	grams	0.8
Size	Width	inch	0.24	mm	6.1
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Mounting			Adhesive		Adhesive
Integral Cable	Length	ft	3	mm	914
•	Туре		TFE		TFE
Connector	Туре		4-pin		4-pin
Housing	Material Isolation		Titanium Case Ground		Titanium Case Ground
Sensing Element	Material		Quartz		Quartz
Densing Element	Mode		Shear		Shear
PERFORMANCE				2	
Sensitivity [2], [3], ± 25%		mV/g	2	mV / m/s ²	0.20
Acceleration Range		g pk	2500	m/s² pk	24525
Frequency Range, ±5%		Hz	1.62 to 6000	Hz	1.62 to 6000
Frequency Range, ±10%		Hz % F.S.	1.10 to 10000	Hz % F.S.	1.10 to 10000
Linearity [5]		% F.S. kHz	± 1	% F.S. kHz	± 1
Resonance Frequency Transverse Sensitivity		%	6	%	6
Bias Voltage		VDC	+7 to +9	VDC	+7 to +9
Output Impedance		0	100	0	100
Noise floor		g RMS	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	µg RMS/√(Hz)	4000	μm/s² RMS/√(Hz)	39240
	10Hz	µg RMS/√(Hz)	2000	μm/s² RMS/√(Hz)	19620
	100Hz	μg RMS/√(Hz)	500	μm/s² RMS/√(Hz)	4905
	1000Hz	μg RMS/√(Hz)	200	µm/s² RMS/√(Hz)	1962
	10000Hz	μg RMS/√(Hz)	90	µm/s² RMS/√(Hz)	883
ENVIRONMENTAL					
Shock		g pk	3000	m/s² pk	29430
Operating Temperature Seal		°F	-67 to +320 Epoxy	°C	-55 to +160 Epoxy
Magnetic Sensitivity at 100 (Gauss	g/Gauss	0.00004	m/s ² / Gauss	0.00039
Base Strain Sensitivity		g/με	0.15	$m/s^2/\mu\epsilon$	1.47
POWER			_		
Compliance Voltage		VDC	+18 to +30	VDC	+18 to +30
		_		_	

2 to 20

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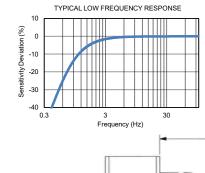
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Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp(°F)	TC	
3133A1	10	500	0.02	-67 to 320	1.0 to 2.5	
3133A3	5	1000	0.06	-67 to 320	1.0 to 2.5	
3133A4	1	5000	0.015	-67 to 320	0.5 to 2.5	
3133A5	0.2	20000	0.35	-67 to 320	0.5 to 4.0	

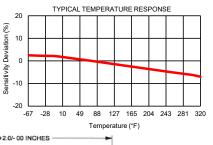
Please, refer to the performance specifications of the products in this family for detailed description **Supplied Accessories:**

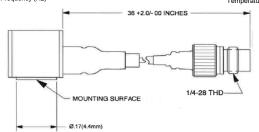
- 1) Model 6298 small petro wax
- 2) Model 6741 removal tool
- 3) Accredited calibration certificate (ISO 17025)

lotes:

- [1] All specifications are at room temperature unless otherwise specified.
- [2] Measured at 100 Hz, 1 Grms
- [3] Actual sensitivity is given on a calibration certificate
- [4] Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
- [5] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.







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



Current Range

2 to 20