

Model Number 3133B8 PERFORMANCE SPECIFICATION PS3133B8 Accelerometer, Triaxial, IEPE REV B, ECN 16859, 09/12/22



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

		ENGLISH		SI	
PHYSICAL				•	
Weight		0.06	oz	1.84	grams
Mounting		Adhesive		Adhesive	_
Integral Cable	Length	3	ft	914	mm
	Type	TFE		TFE	
Connector	Type	4-pin		4-pin	
Housing	Material	Titanium		Titanium	
Isolation Cup	Material	Anodized Alum		Anodized Alum	
Sensing Element	Material	Ceramic		Ceramic	
	Mode	Shear		Shear	
PERFORMANCE					
Sensitivity [1], [2], ±15%		10	mV/g	1.02	mV/m/s2
Acceleration Range		500	Gpeak	4905	m/s2 peak
Frequency Range, ±5%		0.3 to 6000	Hz	0.3 to 6000	Hz
Frequency Range, ±10%		0.25 to 10000	Hz	0.25 to 10000	Hz
Linearity [4]		±1	% F.S.	±1	% F.S.
Resonance Frequency		>35	kHz	>35	kHz
Transverse Sensitivity		6	%	6	%
Noise floor		0.02	Grms	0.20	m/s2 rms
ENVIRONMENTAL					
Shock		3000	Gpeak	29430	m/s2
Vibration		900	Gpeak	8829	m/s2
Operating Temperature		-60 to +250	°F	-51 to 121	°C
Seal		Ероху		Epoxy	
Magnetic Sensitivity at 100 Gauss		0.00004	g/Gauss	0.00039	m/s2/Gauss
Base Strain Sensitivity		0.15	g/με	1.47	m/s2/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 2.5	seconds	1.0 to 2.5	seconds
Case Isolation, Min		10	GΩ	10	GΩ
Bias Voltage		+8 to +10	VDC	+8 to +10	VDC
Output Impedance		100	Ω	100	Ω

This	family	also	incl	udes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133B4	0.2	20000	0.35	-67 to 320	0.5 to 4.0
3133B5	0.7	5000	0.15	-67 to 320	0.5 to 2.5
3133B6	2	2500	0.15	-67 to 320	0.3 to 2.5
3133B7	5	1000	0.06	-67 to 320	1.0 to 2.5

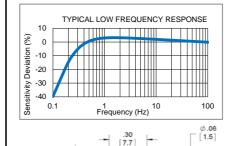
Please, refer to the performance specifications of the products in this family for detailed description

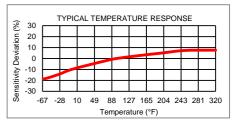
Supplied Accessories:

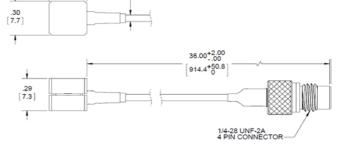
- 1) Model 6298 small petro wax
- 2) Model 6981 removal tool
- 3) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measured at 100 Hz, 1 Grms
- [2] Actual sensitivity is given on a calibration certificate
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [4] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [5] 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 127-3133B4 for more information.

