

**Model Number** DOC NO PERFORMANCE SPECIFICATION 3133B1 PS3133B1 REV E, ECN 14811, 01/10/19 Accelerometer, Triaxial, IEPE



- ULTRA MINIATURE SIZE
- HIGH SENSITIVITY

• IDEAL LOW FREQUENCY RESPONSE • GROUND ISOLATED									
		ENG	SLISH	SI					
PHYSICAL									
Weight		0.03	oz	0.8	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 Al		Anodized Al					
Sensing Element	Material	Ceramic		Ceramic					
	Mode	Shear	]	Shear	]				
PERFORMANCE									
Sensitivity [1], [2], ±15%		10	mV/g	1.02	mV/m/s <sup>2</sup>				
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				
Resonance Frequency		>35	kHz	>35	kHz				
Transverse Sensitivity		6	%	6	%				
Noise floor		0.02	Grms	0.20	m/s <sup>2</sup> rms				
Spectral Noise	1Hz	4000	μGrms/sqr(Hz)	39240	μm/s <sup>2</sup> rms/sqr(Hz)				
	10Hz	2000	μGrms/sqr(Hz)	19620	μm/s <sup>2</sup> rms/sqr(Hz)				
	100Hz	500	μGrms/sqr(Hz)	4905	μm/s <sup>2</sup> rms/sqr(Hz)				
	1000Hz	200	μGrms/sqr(Hz)	1962	μm/s <sup>2</sup> rms/sqr(Hz)				
	10000Hz	90	μGrms/sqr(Hz)	883	μm/s² rms/sqr(Hz)				
ENVIRONMENTAL									
Shock		5000	Gpeak	49050	m/s <sup>2</sup>				
Vibration		900	Gpeak	8829	m/s <sup>2</sup>				
Operating Temperature		-60 to +250	°F	-51 to 121	°C				
Seal		Ероху		Epoxy					
Magnetic Sensitivity at 100 Ga	auss	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		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 includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133B2	2	2500	0.15	-60 to 300	0.3 to 2.5
3133B3	5	1000	0.06	-60 to 250	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 6741 removal tool
- 3) Accredited calibration certificate (ISO 17025)

- [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





