

## PERFORMANCE SPECIFICATION **Model Number** PS3133D2T

3133D2T Accelerometer, Triaxial, IEPE REV J, ECN 15408, 11/11/19



- ULTRA MINIATURE SIZE
- IDEAL LOW FREQUENCY RESPONSE
- LOW BASE STRAIN SENSITIVITY
- TEDS FEATURE
- LOW OUTGASSING

		ENG	ENGLISH		SI	
PHYSICAL				-		
Weight		0.03	oz	0.8	grams	
Mounting		Adhesive		Adhesive		
Integral Cable	Length	3	ft	914	mm	
Connector	Туре	4-pin		4-pin		
Housing	Material	Titanium		Titanium		
	Isolation	Case Ground		Case Ground		
Sensing Element	Material	Quartz		Quartz		
	Mode	Shear		Shear		
PERFORMANCE						
Sensitivity [1], [2], ± 25%		2.0	mV/g	0.20	mV/m/s <sup>2</sup>	
Acceleration Range		2,500	Gpeak	24525	m/s² peak	
Frequency Range, ±5%		0.7 to 6000	Hz	0.7 to 6000	Hz	
Frequency Range, ±10%		0.7 to 10000	Hz	0.7 to 10000	Hz	
Linearity [4]		± 1	% F.S.	± 1	% F.S.	
Resonance Frequency		>27	kHz	>27	kHz	
Transverse Sensitivity		6	%	6	%	
Output Impedance		100	Ω	100	Ω	
Noise floor, Max.		0.15	Grms	1.47	m/s <sup>2</sup> rms	
ENVIRONMENTAL						
Maximum Shock		4,000	Gpeak	39240	m/s <sup>2</sup>	
Maximum Vibration		3,000	Gpeak	29430	m/s <sup>2</sup>	
Operating Temperature		-67 to +320	°F	-55 to 160	°C	
TEDS Operating Temperatur	e	-40 to +185	°F	-40 to +85	°C	
Seal		Hermetic		Hermetic		
Magnetic Sensitivity at 100 G	auss	0.0002	g/Gauss	0.002	m/s²/Gauss	
Base Strain Sensitivity		0.001	g/με	0.01	m/s²/με	
ELECTRICAL						
Compliance Voltage		+18 to +30	VDC	+18 to +30	VDC	
Current Range [4]		2 to 20	mA	2 to 20	mA	
Bias Voltage		+7 to +10	VDC	+7 to +10	VDC	
Discharge Time Constant		0.5 to 2.5	seconds	0.5 to 2.5	seconds	
Output Impedance		100	Ω	100	Ω	
TEDS Feature [5]		IEEE 1451.4		IEEE 1451.4		

This family a	<u>is family also includes:</u>							
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC			
3133D1T	10	500	0.02	-67 to 320	1.1 to 2.5			
3133D3T	5	1,000	0.06	-67 to 320	1.1 to 2.5			
3133D4T	0.7	5,000	0.3	-67 to 320	0.5 to 2.5			
3133D5T	0.25	20,000	0.50	-67 to 320	0.5 to 4			

DOC NO

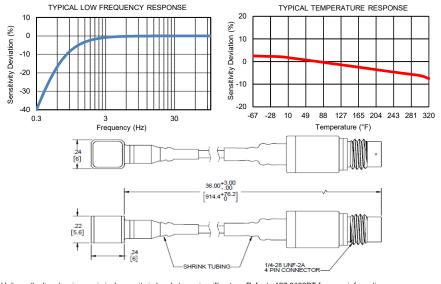
Refer to the performance specifications of the products in this family for detailed description

## 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, 10 Grms
- [2] Actual sensitivity is given on a calibration certificate
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
- [5] In the interest of constant product improvement, we reserve the rights to change the 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 127-3133DT for more information.

