

## DOC NO PERFORMANCE SPECIFICATION **Model Number** PS3133D5T

3133D5T Accelerometer, Triaxial, IEPE REV E, ECN 13002, 10/05/16



• ULTRA MINIATURE SIZE

**ENGLISH** 

- IDEAL LOW FREQUENCY RESPONSE
- LOW BASE STRAIN SENSITIVITY
- TEDS FEATURE

PHYSICAL	
Weight	
Mounting	
Integral Cable	Length
Connector	Type
Housing	Material
	Isolation
Sensing Element	Material
	Mode
PERFORMANCE	
Sensitivity [1], [2], ± 25%	
Acceleration Range	

Frequency Range, ±5%

Resonance Frequency

Transverse Sensitivity

Output Impedance

Noise floor, Max.

ENVIRONMENTAL Maximum Shock

Maximum Vibration

ELECTRICAL

Compliance Voltage

Discharge Time Constant Output Impedance TEDS Feature [5]

Current Range [4] Bias Voltage

Operating Temperature

Magnetic Sensitivity at 100 Gauss Base Strain Sensitivity

Linearity [4]

Frequency Range, ±10%

LIVOLIOIT		
	_	
0.03	oz	
Adhesive		
3	ft	
4-pin		
Titanium		
Case Ground		
Quartz		
Shear		
	='	

0.25

20.000

0.7 to 6000

0.7 to 10000

± 1

>27

6

100

0.50

mV/g	
Gpeak	
Hz	
Hz	
% F.S.	
kHz	
%	
Ω	
Grms	

25,000	Gpeak
22,000	Gpeak
-67 to +320	°F
Hermetic	]
0.0002	g/Gauss
0.001	ต/บร

	_
+18 to +30	VDC
2 to 20	mA
+7 to +9	VDC
0.5 to 4.0	seconds
100	Ω
IEEE 1451.4	

4-pin	
Titanium	]
Case Ground	]
Quartz	]
Shear	1
	=
0.025	mV/m/s <sup>2</sup>
196200	m/s² peak
0.7 to 6000	Hz
0.7 to 10000	Hz
+ 1	%FS

SI

grams

mm

kHz

%

Ω m/s<sup>2</sup> rms

0.8

Adhesive

914

>27

6

100

4.91

245250	m/s <sup>2</sup>
215820	m/s <sup>2</sup>
-55 to 160	°C
Hermetic	
0.002	m/s²/Gauss
0.01	m/s²/με

+18 to +30	VDC
2 to 20	mA
+7 to +9	VDC
0.5 to 4.0	seconds
100	Ω
IEEE 1451.4	

## This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133D1T	10	500	0.02	-67 to 320	1.1 to 1.7
3133D2T	2	2500	0.15	-67 to 320	0.5 to 2.5
3133D3T	5	1000	0.06	-67 to 320	1.1 to 1.7
3133D4T	0.7	5000	0.30	-67 to 320	0.5 to 2.5

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] 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] TEDS operational temperature: -40° F to +185° F [-40° C to +85° C]





