

Model Number 3133D18T		PERFORMANCE SPECIFICATION									DOC NO PS3133D18T	
	Accelerometer, Triaxial, IEPE							REV D, ECN 17013, 03/22/23				
2		• ULTRA MI	INIATURE S	IZE		This family also	o includes:					
		IDEAL LO	W FREQUE	NCY RESPONS	E	Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp (°F)	TC	
		• LOW BAS	E STRAIN S	SENSITIVITY		3133D15T	0.25	20,000	0.5	-67 to 320	0.5 to 4	
-		• TEDS FEA	TURE			3133D16T	0.7	5,000	0.3	-67 to 320	0.5 to 2	
		GROUND	ISOLATED			3133D17T	2	2,500	0.15	-67 to 320	0.3 to 2	
		<ul> <li>LOW OUT</li> </ul>	GASSING			3133D19T	10	500	0.02	-67 to 320	1.1 to 2	
						Refer to the per	formance specification	s of the products in	this family for detailed des	scription		
		ENG	LISH SI									
HYSICAL						Supplied Acces	ssories:					
Veight		0.03	oz	0.8	grams	1) Model 6298 s	mall petro wax					
Nounting		Adhesive		Adhesive		2) Model 6981 r	emoval tool					
ntegral Cable	Length	3	ft	914	mm	3) Accredited ca	libration certificate (IS	O 17025)				
Connector	Туре	4-pin		4-pin								
lousing	Material	Titanium		Titanium		Notes:						
olation Cup	Material	Anodized AI		Anodized Al	]		100 Hz, 10 g RMS.					
ensing Element	Material	Ceramic		Ceramic			ivity is given on a calib	ration certificate.				
	Mode	Shear [3] Do not apply power to this device without current limiting, 20mA max, to do so will						ill				
					destroy the integral IC amplifier.							
ERFORMANCE						[4] Measured us	ing zero-based straigh	t line method, % of	F.S. or any lesser range.			
ensitivity [1], [2], ± 25%		5	mV/g	0.5	mV/m/s <sup>2</sup>	[5] All specificati	ions are at room tempe	erature unless other	wise specified.			
cceleration Range		1,000	g pk	9810	m/s <sup>2</sup> pk	[6] In the interes	t of constant product ir	nprovement, we res	serve the right to change s	specifications without r	notice.	
requency Range, ±5%		0.3 to 6000	Hz	0.3 to 6000	Hz	It is the custome	er's responsibility to val	idate that a particul	ar product with the proper	ties described in the p	roduct	
requency Range, ±10%		0.25 to 10000	Hz	0.25 to 10000	Hz				Parameters provided in da			
inearity [4]		± 1	% F.S.	± 1	% F.S.				ver time. All operating par		cal parame	
Resonance Frequency		>27	kHz	>27	kHz	must be validate	ed for each customer a	pplication by the cu	stomer's technical experts	S.		
Fransverse Sensitivity		6	%	6	%							
Dutput Impedance		100	Ω	100	Ω	TYPICA	LLOW FREQUENCY RESP	ONSE	TYPICAL TEMPE	RATURE RESPONSE		
loise floor, Max.		0.06	g RMS	0.59	m/s <sup>2</sup> RMS							
					-	10			30			
ENVIRONMENTAL						(%) 5			00 20 (%)			
Maximum Shock		3,000	g pk	29430	m/s <sup>2</sup> pk	-5 iation			iatio			
Operating Temperature		-67 to +320	°F	-55 to 160	°C	a -10						
FEDS Operating Temperature		-40 to +185	°F	-40 to +85	°C	Ativitis -15 -20			o nsitivity			
Seal		Hermetic		Hermetic		-20			Seps -10			
Magnetic Sensitivity at 100 Gaus	SS	0.0002	g/Gauss	0.002	m/s²/Gauss	-25						
Base Strain Sensitivity		0.001	g/με	0.01	m/s²/με	-30 -35			-20			
						-40			-30	88 127 165 204 243		
LECTRICAL					-	0.1	1	10 100	-67 -28 10 49	88 127 165 204 243 Temperature (°F)	281 320	
Compliance Voltage		+19 to +30	VDC	+19 to +30	VDC		Frequency (Hz)					
Current Range [3]		2 to 20	mA	2 to 20	mA							
Case Isolation, Min.		10	GΩ	10	GΩ	.30		36.00+3.00				
lias Voltage		+7 to +14	VDC	+7 to +14	VDC			[914.4 <sup>+76.2</sup> ]				
Discharge Time Constant		1.1 to 2.5	Sec	1.1 to 2.5	Sec	.30		H		4 PIN CONNECTOR		
Dutput Impedance		100	Ω	100	Ω	[7.6]						
EDS Feature		IEEE 1451.4		IEEE 1451.4	]			L				
						<b>₽</b>	SHRIN			-		
						.26 [6.6]		H		-		
									efer to 127-3133D15T for more inf	ormation.		
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