

Model Number	Model Number		PERFORMANCE SPECIFICATION								DOC NO PS3133D2T	
3133D2T		Accele				rometer, Triaxial, IEPE				REV E, ECN 13002, 10/05/16		
T		• ULTRA MINIATURE SIZE				This family also includes:						
Y CARLON		-		Y RESPONSE		Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC	
		LOW BASE	STRAIN SEN	ISITIVITY		3133D1T	10	500	0.02	-67 to 320	1.1 to 1.7	
		• TEDS FEAT				3133D3T	5	1,000	0.06	-67 to 320	1.1 to 1.7	
3	Film		0.12			3133D4T	0.7	5,000	0.3	-67 to 320	0.5 to 2.5	
		ENGL	ISH	[	SI	3133D5T	0.25	20,000	0.50	-67 to 320	0.5 to 4	
PHYSICAL		Ende					performance specific	,				
Weight		0.03	oz	0.8	grams							
Mounting		Adhesive		Adhesive	3.22	Supplied Ac	cessories:					
Integral Cable	Length	3 ft 914		mm	1) Model 6298 small petro wax							
Connector	Туре	4-pin		4-pin		2) Model 6741 removal tool						
Housing Material		Titanium		Titanium 3) Accredited calibration certificate (ISO 17025)								
	Isolation	Case Ground		Case Ground				. ,				
Sensing Element	Material	Quartz		Quartz		Notes:						
	Mode	Shear		Shear		[1] Measured	d at 100 Hz, 10 Grms	3				
PERFORMANCE						[2] Actual se	nsitivity is given on a	a calibration certif	icate			
Sensitivity [1], [2], ± 25%		2.0	mV/g	0.20	mV/m/s <sup>2</sup>	[3] Measured using zero-based straight line method, % of F.S. or any lesser range.						
Acceleration Range		2,500	Gpeak	24525	m/s <sup>2</sup> peak	[4] Do not apply power to this device without current limiting, 20mA max, to do so will						
Frequency Range, ±5%		0.7 to 6000	Hz	0.7 to 6000	Hz	destroy the integral IC amplifier						
Frequency Range, ±10%		0.7 to 10000	Hz	0.7 to 10000	Hz	[5] TEDS operational temperature: -40° F to +185° F [-40° C to +85° C]						
Linearity [4]		± 1	% F.S.	± 1	% F.S.	TYPICAL LOW FREQUENCY RESPONSE TYPICAL TEMPERATURE RESPONSE					DONGE	
Resonance Frequency		>27	kHz	>27	kHz	10			20			
Transverse Sensitivity		6	%	6	%	(%)			(%)			
Output Impedance		100	Ω	100	Ω	tion			10 III			
Noise floor, Max.		0.15	Grms	1.47	m/s <sup>2</sup> rms	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 01			
ENVIRONMENTAL				<b>1</b>		02- Sitivi			-10			
Maximum Shock		4,000	Gpeak	39240	m/s <sup>2</sup>	g -30			Ser			
Maximum Vibration		3,000	Gpeak	29430	m/s <sup>2</sup>	-40			-20			
Operating Temperature		-67 to +320	°F	-55 to 160	°C	0.3	_3	30	-67 -28 10	49 88 127 165 204	243 281 320	
Seal		Hermetic		Hermetic	1210		Frequency (Hz	<u>z)</u>		Temperature (°F)		
Magnetic Sensitivity at 100 Gauss		0.0002	g/Gauss	0.002	m/s²/Gauss			_	~		1	
Base Strain Sensitivity		0.001	g/με	0.01	m/s²/με		24			•		
ELECTRICAL												
Compliance Voltage		+18 to +30	VDC	+18 to +30	VDC		<b> -</b>	36.00	+3.00 00	~	4	
Current Range [4]		2 to 20	mA	2 to 20	mA			[914.4	0-1			
Bias Voltage		+7 to +9	VDC	+7 to +9	VDC		<u>+</u>			Thinkin	1	
Discharge Time Constant		0.5 to 2.5 seconds 0.5 to 2.5		seconds								
Output Impedance		100 Ω 100			Ω						J	
TEDS Feature [5]		IEEE 1451.4		IEEE 1451.4			24		1/4 28 LINE 2/			
								SHRINK TUB	NG/ 1/4-28 UNF-2/ 4 PIN CONNE	CTOR-		
						Units on the line	drawing are in inches, unit	ts in brackets are in m	illimeters. Refer to 127-313	3DT for more information	n.	
N.							- ,					



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