

Model Number		PERFORMANCE SPECIFICATION									DOC NO PS3133D16T	
3133D16T					Accelerometer, Triaxial, IEPE					REV D, ECN 15408, 11/11/19		
2		• ULTRA MINIATURE SIZE				This family also includes:						
Y		• IDEAL LO				Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	тс	
		• LOW BASE	STRAIN S	ENSITIVITY		3133D15T	0.25	20 000	0.50	-67 to 320	0.5 to 4	
		• TEDS FEA				3133D17T	2	2 500	0.15	-67 to 320	0.3 to 2.5	
		• GROUND I	SOLATION			3133D18T	5	1,000	0.06	-67 to 320	1.1 to 2.5	
		LOW OUT	GASSING			3133D19T	10	500	0.02	-67 to 320	1.1 to 2.5	
						Refer to the performance specifications of the products in this family for detailed description						
		ENGLISH			SI Supplied Accessories:			,				
PHYSICAL		L					1) Model 6298 small petro wax					
Weight		0.05	oz	1.3	grams	2) Model 698	1 removal tool					
Mounting		Adhesive		Adhesive	5	3) Accredited	calibration certificat	te (ISO 17025)				
Integral Cable	Lenath	3	ft	914	mm	Notes:	Notes:					
Connector	Type	4-pin		4-pin		[1] Measured at 100 Hz, 10 Grms						
Housing	Material	Titanium		Titanium		[2] Actual ser	[2] Actual sensitivity is given on a calibration certificate					
Isolation Cup	Material	Anodized Al		Anodized Al		[3] Measured	[3] Measured using zero-based straight line method. % of F.S. or any less					
Sensing Element	Material	Quartz		Quartz		[4] Do not ap	olv power to this dev	/ice without curre	nt limiting, 20mA ma	x. to do so will		
Ũ	Mode	Shear		Shear		destroy the	integral IC amplifie	r		.,		
PERFORMANCE	mouo	oniou		onoai		[5] In the inter	rest of constant proc	duct improvemen	t we reserve the righ	ts to change the		
Sensitivity [1], [2], ± 25%		0.7	mV/a	0.071	mV/m/s ²	specifications	without notice. It is	the customer's re	esponsibility to validation	ate that a particular	r product with	
Acceleration Range		5,000	Gneak	49050	m/s ² peak	the properties	described in the pr	oduct specificatio	on is suitable for use	in a particular app	lication.	
Erequency Range +5%		0.7 to 6000	Hz	0.7 to 6000	Hz	Parameters p	rovided in datashee	ets and / or specif	ications may vary in	different applicatio	ns and	
Frequency Range +10%		0.7 to 10000	Hz	0.7 to 10000	Hz	performance	may vary overtime.	All operating para	ameters, including ty	pical parameters, ı	must be	
Linearity [4]		+ 1	% E S	+ 1	% E S	validated for	each customer appli	ication by the cus	tomer's technical ex	perts.		
Resonance Frequency		>27	жн .	>27	kH7	ту						
Transverse Sensitivity		6	KI 12 %	6	%	10	PICAL LOW FREQUENC	RESPONSE	TYPIC/	AL TEMPERATURE RES	SPONSE	
		100	<i>"</i>	100	<i>N</i>	<u>ş</u> 5			²⁰			
Noise floor Max		0.30	Grms	2.04	m/s ² rms	6) 0			uiii 10			
		0.30	Gillis	2.94		-5 siati			eviat			
						± -15	/					
Maximum Shock		7 000	Gneak	68670	m/s ²	-20 sitis			Jsitiv			
Maximum Vibration		7,000	Gpeak	58860	m/s ²	Б -25 У -30			lo -10			
		67 to +320	opeak	56600	•C	-35						
		-07 to +185	°E	-55 to 100	°C	-40	1	10 10	-20 -67 -28 10	49 88 127 165 20	4 243 281 320	
Seal		Hermetic		Hermetic	0		Frequency (Hz	z)		Temperature (°F)		
Magnetic Sensitivity at 100 Gauss		0.0002	d/Cause	0.002	m/s²/Gauss							
Base Strain Sensitivity	•	0.0002	g/Gauss	0.002	m/s ² /us	-	.30	36.0	0-00	-		
		0.001	g/µe	0.01	1100 / μο		[7.6]	914.	4+10-2	-1	4-28 LINE-24	
IELECTRICAL						.30		—((_ _		4	PIN CONNECTOR	
Compliance Voltage		+18 to +30	VDC	+18 to +30	VDC	[7.6])				
Current Range [4]		2 to 20	mA	2 to 20	mA							
Case Isolation, Min		10	GO	10	GO							
Bias Voltage		+7 to ±10	VDC	±7 to ±10	VDC		/	-SHRINK TUBING POLYOLEFIN				
Discharge Time Constant		0.5 to 2.5	seconds	0.5 to 2.5	seconds		The					
		100	o	0.0 10 2.0	o	.26 [6.6]		F		φ.30 [7.6]		
			12		12	<u>+</u>						
		IEEE 1431.4		IEEE 1401.4		Lipito en the line -		in brookote are in	motors Deferte 107 0100	16T for more inform - 4'-	2	
						Units on the line of	nawing are in inches, units	in prackets are in milli	meters. Refer to 127-31331	101 IOF more Informatio	n.	

INSTRUMENTS, INC.

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com