

2		
REVISIONS		
SCRIPTION		
ED 3133D1T-17		
OUTGASSING" N	NOTE	
3133D2T-17, 313 133D4T-17, 3133E	33D2T-17, 05T-17	
(LOW OUTGASSI	NG NOTE)	

CHK

APPR

**BY/DATE** 

33D1T-17	JS 11/09/16	EP	AS	D
GASSING" NOTE	JB 5/9/2017	МН	LN	_
D2T-17, 3133D2T-17, T-17, 3133D5T-17	RA, 12/08/17	EM	LN	
OUTGASSING NOTE)	KG 09/26/19	Æ	5	
PIN 4,— X-AXIS	/		V 1, MM	С
PIN 3, Z-AXIS Z-AXIS SIG/PWR		GN PIN Y-A	N 2, AXIS S/PWR	В
Chatsworth OUTLINE/INST TRIAXIAL ACC 3133DT CAGE CODE 2W033 1:1	ALLATI EL WI SERIE 127-3	ON DV	N RED VG, DS, REV G	Α

Model Number				PERFOR	MANCE SPE	CIFICAT	ION			DOC PS313	-
3133D4T					Accelero	neter, Triaxia	I, IEPE			REV J, ECN 154	408, 11/11/19
2		• ULTRA MIN	NIATURE SIZ	E		This family	also includes:				
Y Carlos		IDEAL LOV		CY RESPONSE		Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
		LOW BASE	STRAIN SE	NSITIVITY		3133D1T	10	500	0.02	-67 to 320	1.1 to 2.5
		• TEDS FEAT	TURE			3133D2T	2	2,500	0.15	-67 to 320	0.5 to 2.5
1	The	· LOW OUT	-			3133D3T	5	1,000	0.06	-67 to 320	1.1 to 2.5
						3133D5T	0.25	20,000	0.50	-67 to 320	0.5 to 4
		ENGL	.ISH		SI			,	oducts in this family f		
HYSICAL		-				Supplied Ac	• •		,	·	
/eight		0.03	oz	0.8	grams	1) Model 629	98 small petro wax				
lounting		Adhesive		Adhesive	•	2) Model 674	1 removal tool				
ntegral Cable L	ength	3	ft	914	mm	3) Accredited	d calibration certifica	ate (ISO 17025)			
Connector T	Гуре	4-pin		4-pin		Notes:					
lousing N	Material	Titanium		Titanium		[1] Measured at 100 Hz, 10 Grms					
ls	solation	Case Ground		Case Ground		[2] Actual se	nsitivity is given on a	a calibration certi	ficate		
Sensing Element N	Material	Quartz		Quartz		[3] Measured	l using zero-based s	straight line meth	od, % of F.S. or any	lesser range.	
	Node	Shear		Shear					ent limiting, 20mA m	ax, to do so will	
ERFORMANCE					2	,	e integral IC amplifie				
ensitivity [1], [2], ± 25%		0.7	mV/g	0.071	mV/m/s <sup>2</sup>	[5] In the interest of constant product improvement, we reserve the rights to change the					
cceleration Range		5,000	Gpeak	49050	m/s² peak	specifications without notice. It is the customer's responsibility to validate that a particular product w					
requency Range, ±5%		0.7 to 6000	Hz	0.7 to 6000	Hz	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					
requency Range, ±10%		0.7 to 10000	Hz	0.7 to 10000	Hz	performance may vary overtime. All operating parameters, including typical parameters, must be					
inearity [4]		± 1	% F.S.	± 1	% F.S.	validated for each customer application by the customer's technical experts.					
Resonance Frequency Transverse Sensitivity		>27	kHz %	>27	kHz %		YPICAL LOW FREQUENC	-			
Dutput Impedance		100	Ω	100	<sup>7</sup> ο Ω	10	PICAL LOW FREQUENC	response	20 TYPICA	L TEMPERATURE RESI	PONSE
loise floor, Max.		0.30	Grms	2.94	m/s <sup>2</sup> rms	(%) u			(%)		
NVIRONMENTAL						0 viation			0 Deviation		
faximum Shock		7,000	Gpeak	68670	m/s <sup>2</sup>	De	/				
Aximum Vibration		6,000	Gpeak	58860	m/s <sup>2</sup>	-20 -30			Seusitivity Seusitivity		
Derating Temperature		-67 to +320	°F	-55 to 160	°C	se -30			N N N N N N N N N N N N N N N N N N N		
EDS Operating Temperature		-40 to +185	°F	-40 to +85	°C	-40			-20		
Seal		Hermetic		Hermetic		0.3	3	30	-67 -28 10 4		243 281 320
lagnetic Sensitivity at 100 Gauss		0.0002	g/Gauss	0.002	m/s²/Gauss		Frequency (H	12)		Temperature (°F)	
ase Strain Sensitivity		0.001	g/με	0.01	m/s²/με		24				
							<u>"</u>				
Compliance Voltage		+18 to +30	VDC	+18 to +30	VDC		<b> -</b>	36.0	0+3.00 00 4+76.21	~~~ <del>~</del>	
Current Range [4]		2 to 20	mA	2 to 20	mA		.	[914.4	4 <sup>+76.2</sup> ]		
ias Voltage )ischarge Time Constant		+7 to +10	VDC	+7 to +10	VDC						
Dutput Impedance		0.5 to 2.5 100	seconds Ω	0.5 to 2.5 100	seconds Ω		.22 [5.6]				
EDS Feature [5]		IEEE 1451.4	12	IEEE 1451.4	12						
		1666 1401.4		ILLE 1431.4					BING 1/4-28 UNF-2A 4 PIN CONNEC	TOR	
						Units on the line	drawing are in inches, unit	ts in brackets are in mi	llimeters. Refer to 127-313		ı.

INSTRUMENTS, INC.

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