

172-0081, REV D

MODEL NUMBER 3023B6T		PERFORMANCE SPECIFICATION									оос NO. PS3023B6T	
					ACCELEROME	TER, TRIAXIAL, IEPE				REV D, ECN 17104, 03/29/23		
						This family also	o includes:					
		• HIGH TEMPE	ERATURE			Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp (°F)	TC (Sec)	
		• HERMETICA	LLY SEALE	D		3023B4	1	5000	0.07	-60 to +325	0.2 to 2.0	
		• MINIATURE	SIZE			3023B5	5	1000	0.014	-60 to +325	0.2 to 2.0	
Y Z		• TEDS FEATU	JRE			3023B6	10	500	0.007	-60 to +325	0.2 to 2.0	
						3023B4T	1	5000	0.07	-60 to +325	0.2 to 2.0	
0						3023B5T	5	1000	0.014	-60 to +325	0.2 to 2.0	
		ENGLISH		SI		Please, refer to	the performance specification	ons of the products	in this family for detaile	ed description		
PHYSICAL			1		1		_					
Weight, Max.		0.14	oz	4.0	grams	Supplied Acces	ssories:					
Mounting		5-40 Tapped Hole		5-40 Tapped Hole	,	1) Accredited Calibration Certificate (ISO 17025)						
Connector [1]		4-pin		4-pin		2) Model 6580 Mounting Stud, Qty 1.						
Material, Housing / Connector		Titanium	l i	Titanium								
PERFORMANCE						Notes: [1] Connector m	ates with Dytran's cable as	sv. model 6811AX	(or 68244XX (yy – len	ath in feet)		
Sensitivity, -10% / +15% [5]		10 mV/m 1.02 mV/m/s ² [2] Measured using zero-based best straight-line method % of F.S. or any lesser range										
Range F.S. (each axis)		±500	a pk	+4905	m/s ² pk	[3] Do not apply power to this system without current limiting. 20 mA MAX. To do so will destroy the						
Frequency Response, ±5%		2.43 to 4000	Hz	2.43 to 4000	Hz	IC charge amplifier.						
,±15%		1.29 to 10000	Hz	1.29 to 10000	Hz	[4] Positive for motion in direction of arrows on housing.						
Element Natural Frequency		25	kHz	25	kHz	[5] All specifications are at room temperature unless otherwise specified.						
Equivalent Electrical Noise		0.01	g RMS	0.098	m/s ² RMS	[6] In the interest of constant product improvement, we reserve the right to change specifications without notice.						
Spectral Noise	1.25Hz	680	µg RMS/√(Hz)	6671	µm/s ² RMS/√(Hz)	It is the custome	er's responsibility to validate	that a particular pr	oduct with the propertie	es described in the p	roduct	
	10Hz	680	µg RMS/√(Hz)	6671	μm/s ² RMS/√(Hz)	specification is s	uitable for use in a particula	ar application. Para	meters provided in data	asheets and / or spec	cifications may	
	100Hz	120	µg RMS/√(Hz)	1177	µm/s ² RMS/√(Hz)	vary in different	applications and performan	ce may vary over t	ime. All operating para	meters, including typi	cal parameters,	
	1000Hz	31.5	µg RMS/√(Hz)	309	µm/s ² RMS/√(Hz)	must be validate	ed for each customer applic	ation by the custon	ner's technical experts.			
	10000Hz	22	µg RMS/√(Hz)	216	µm/s ² RMS/√(Hz)							
Linearity [2]		±1	% F.S.	±1	% F.S.							
Transverse Sensitivity, Max.		6	%	6	%		TYPICAL LOW FREQUENCY RES	PONSE	TYPICA	_ TEMPERATURE RESPONSE		
Signal Polarity		[4]		[4]		<u>₀</u> ¹⁰			10			
									(%) u			
ELECTRICAL	ĺ	0.400	1 .	0 / 00	,	-10			viation			
Supply Current Range [3]		2 to 20	MA	2 to 20	MA	20 20 20 20 20 20 20 20 20 20 20 20 20 2						
		+18 to +30	VDC	+18 to +30	VDC	itis -40			2- sitivit			
Output Bias Voltage		7 to 12		7 to 12		ung -50			es l			
Discharge Time Constant		0.2 -2 0	sec	0.2 -2 0	sec	-60	1	10 100	-10 -60 4 6	3 132 197	261 325	
Magnetic Sens. at 100 Gauss		0.00005	g/Gauss	4.905	m/s²/T	0.1	Frequency (Hz)	100		Temperature (%F)		
Strain Sensitivity @ 250με		0.008	g/με	0.08	m/s²/με		26		70			
Ground Isolation		Case Ground		Case Ground			[9,1]		- [17.7]			
	I				,	· · .		NNECTOR	[]			
ENVIRONMENTAL						.36		+				
Maximum Shock		±1000	g pk	±9810	m/s² pk	[9.1]		.47				
Temperature Range		-60 to +325	°F	-51 to +162	°C			[11.9]				
TEDS Operating Temp.		-40 to +185	°F	-40 to +85	°C	T		1				
TEDS		IEEE 1451.4		IEEE 1451.4					-MOUNTI	NG SURFACE		
	l	-	. !	-	L Contraction of the second				5-40 ON	-20 THREAD		
						Linite on the line days	ing ara in inchas units in brachets	no in millimeters. Defect	to 107 2002 DA for more inform	ation		
						Units on the line draw	my are in incres, units in brackets a	are in minimeters. Refer t	U 121-3023B4 for more inform	auun.		
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