

Model Number										DOC NO
3023A		PERFORMANCE SPECIFICATIONS								PS3023A
		TRI AXIAL IEPE				ACCELEROMETER				REV C, ECN 12512, 02/25/16
							This family also includes:			
		 MINATURE SIZE 				Model	Sensitivity (mV/g)	Frequency Response (Hz)	Mounting	Operating Temp (°F)
		• EXCELLENT LINEARITY • ULTRA LOW WEIGHT				3023A1	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
					3023A2	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250	
						3023A3	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
						3023A4	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
						3023A5	1 (±5%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
						3023A6	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250
		· · · · · · · · · · · · · · · · · · ·			3023A9	1 (±10%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250	
					Refer to the perfo	ormance specifications of	f the products in this family for de	tailed description		
		ENGLISH		SI						
PHYSICAL		·		·	-	Supplied Acces				
Weight, Max.		0.11	oz	3.0	grams	1) Accredited cali	bration certificate (ISO 1	7025)		
Connector		4-PIN		4-PIN	4					
Mounting Provision		Adhesive Mount		Adhesive Mount	4	Notes:				
Material, Housing/Connector		Titanium Alloy		Titanium Alloy	-		00Hz, 1 Grms per ISA F			
Sensing Element		Quartz		Quartz	4		5	e method, % of F.S. or any lesse	0	
Element Style		Shear S				[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC cha				•
						[4] In the interest	of constant product imp	rovement, we reserve the right to	change specifications with	out notice.
PERFORMANCE			1	ſ	7					
Sensitivity, -10 / +15 % [1]		10	mV/g	1	mV/m/s ²		TYPICAL LOW FREQUENCY RESP	ONSE	TYPICAL TEMPERATURE RE	- CRONEF
Range for ± 5 Volts Output		±500	g	±4903	m/s ²	10		30		
Frequency Response	±5%	1.5 to 4000	Hz	1.5 to 4000	Hz					
	-5 / +15%	1.5 to 10000	Hz	1.5 to 10000	Hz	(%) O		20		
Resonant Frequency		> 40	kHz	> 40	kHz	NOL -10		NO AN		
Broad Band Resolution		0.007	Grms	0.069	m/s ² rms	EVIA				
Spectral Noise	1.25Hz	0.003	µGrms/v(Hz)	0.029	µm/s ² rms/v(Hz) µm/s ² rms/v(Hz)	AB -20				
	10Hz 100Hz	0.001	µGrms/v(Hz) µGrms/v(Hz)	0.0098	μm/s ² rms/v(Hz)	STI S				
	100Hz	0.0002	μGrms/v(Hz) μGrms/v(Hz)	0.00196	μ m/s ² rms/v(Hz)	-30 S		-10		
	1000Hz	0.00005	μGrms/v(Hz) μGrms/v(Hz)	0.00049	μ m/s ² rms/v(Hz)	-40	<u>/</u>	-20		
Linearity [2]	10000HZ	1	% F.S.	0.00039	% F.S.		/!!!!! ! ! ! ! !!!!!			
Maximum Transverse sensitivity	1	5	%1.3.	5	%1.3.	-50	1 1	<u> </u>	-29 2 33 64 95	126 157 188 219 250
Strain Sensitivity @ 250µε		0.039	/δ g/με	0.38			FERQUENCY (HZ)		TEMPERATURE	(*F)
Guain Genolivity & 200pc		0.000	9/40	0.00	into the					,
ENVIRONMENTAL								36 [9.1]1/4	1.00	
Maximum Vibration		±600	Gpeak	±5884	m/s ² peak		1	4-1	I-28 PIN CONNECTOR	
Maximum Shock		5000	Gpeak	49033	m/s ² peak					
Temperature Range		-60 to +250	°F	-51 to +121	°C		.36			
Seal		Hermetic		Hermetic			[9.1]			
Magnetic Sensitivity at 100 Gau	ss	0.00005	g/Gauss	4.905	m/s²/T		-			
ELECTRICAL							т			
Supply Current Range [3]		2 to 20	mA	2 to 20] mA			70 [17.7] - P	N 4 AXIS	
Compliance Voltage Range		18 to 30	Volts	18 to 30	Volts	+				PIN 1 GND RETURN COMMON
Output Impedance,Typ		100	Ω	100	Ω					COMMON
Bias Voltage		7 to 11	VDC	7 to 11	VDC	.36 [9]			- ()	
Discharge Time Constant		0.3 to 1.5	Sec	0.3 to 1.5	Sec	[3]		.1		
Electrical Isolation		Case Grounded	GΩ,min	Case Grounded	GΩ,min		Ø.30			PIN 2
		Case Grounded	032,11111	Case Grounded	032,000		[7.5]	1	N 2	Y AXIS (2) OUTPUT
								Z		.,
								(3) OUTPUT/	

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

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023A for more information.