

3023A						PECIFICATI	ONS			PS3023A					
HYSICAL								PERFORMANCE SPECIFICATIONS							
HYSICAL			TRI AXIAL IEPE ACCELEROMETER												
HYSICAL						This family also includes:				r					
HYSICAL		 MINATURE SIZE 				Model	Sensitivity (mV/g)	Frequency Response (Hz)	Mounting	Operating Temp (°F)					
HYSICAL		EXCELLENT LINI				3023A1	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250					
HYSICAL		ULTRA LOW WE	IGHT			3023A2	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250					
HYSICAL						3023A3	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250					
HYSICAL						3023A4	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250					
HYSICAL						3023A5	1 (±5%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250					
HYSICAL						3023A6	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250					
HYSICAL						3023A9 Refer to the perfer	1 (±10%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250					
HYSICAL			ENGLISH			Refer to the performance specifications of the products in this family for detailed description									
		EntoEn		SI		Supplied Access	ories:								
/eight, Max.		0.11	oz	3.0	grams		pration certificate (ISO 17	025)							
onnector		4-PIN		4-PIN	3. 3.1.0	.,		· · · /							
ounting Provision		Adhesive Mount		Adhesive Mount	1	Notes:									
aterial, Housing/Connector		Titanium Alloy		Titanium Alloy	1		00Hz, 1 Grms per ISA RF	9 37.2.							
ensing Element		Quartz		Quartz			•	method, % of F.S. or any lesser ra	nge.						
lement Style		Shear		Shear		[3] Do not apply p	ower to this system witho	ut current limiting, 20 mA MAX. To	do so will destroy the IC ch	arge amplifier.					
					-	[4] In the interest of	of constant product impro	vement, we reserve the right to ch	ange specifications without	notice.					
ERFORMANCE						[5] Positive for mo	tion in direction of arrows	on housing.							
ensitivity, -10 / +15 % [1]		10	mV/g	1	mV/m/s ²	[6] Typical. Not to	exceed .010 Grms [.10 n	n/s²].							
ange for ± 5 Volts Output		±500	g	±4903	m/s ²										
requency Response ±	±5%	1.5 to 4000	Hz	1.5 to 4000	Hz		TYPICAL LOW FREQUENCY RESPO		TYPICAL TEMPERATURE R	ESPONSE					
	5 / +15%	1.5 to 10000	Hz	1.5 to 10000	Hz	10		30							
esonant Frequency		> 40	kHz	> 40	kHz	<u>R</u> 0		20							
road Band Resolution [6]		0.007	Grms	0.069	m/s ² rms										
pectral Noise 1	1.25Hz	0.003	Grms/v(Hz)	0.029	m/s ² rms/v(Hz)	-10 -20									
	10Hz	0.001	Grms/v(Hz)	0.0098	m/s ² rms/v(Hz)	^H ∠ -20									
1	100Hz	0.0002	Grms/v(Hz)	0.00196	m/s ² rms/v(Hz)	TIVIT									
	1000Hz	0.00005	Grms/v(Hz)	0.00049	m/s ² rms/v(Hz)	-30 -30		-10							
	10000Hz	0.00004	Grms/v(Hz)	0.00039	m/s ² rms/v(Hz)	-40	<u>∦</u>								
inearity [2]		1	% F.S.	1	% F.S.	-50									
laximum Transverse sensitivity		6	%	6	%	-50 0.1	1 10		-29 2 33 64 95	126 157 188 219 250					
strain Sensitivity @ 250με		0.039	g/με	0.38	m/s²/με		FERQUENCY(HZ)		TEMPERATURI	:(*F)					
ignal Polarity		[5]		[5]				.36							
NVIRONMENTAL								[9.1]	-28 PIN CONNECTOR						
laximum Vibration		±600	Oreal	±5884	m/s ² peak		ł	4-F	PIN CONNECTOR						
aximum Shock		5000	Gpeak Gpeak	49033	m/s ² peak										
emperature Range		-60 to +250	°F	-51 to +121	°C		.36 [9.1]								
eal		Hermetic	I	Hermetic	-		[9.1]								
lagnetic Sensitivity at 100 Gauss		0.00005	g/Gauss	4.905	m/s²/T		ŧ								
LECTRICAL								70 PI	N 4						
upply Current Range [3]		2 to 20	mA	2 to 20	mA	t i i i i i i i i i i i i i i i i i i i			AXIS) OUTPUT	PIN 1					
ompliance Voltage Range		18 to 30	Volts	18 to 30	Volts			Thatta		PIN 1 GND RETURN COMMON					
utput Impedance,Typ		100	Ω	100	Ω	.36 [9]			- 163						
ias Voltage		7 to 11	VDC	7 to 11	VDC	[9]									
ischarge Time Constant		0.3 to 1.5	Sec	0.3 to 1.5	Sec		Ø.30 [7.5]			PIN 2					
lectrical Isolation		Case Grounded	GΩ,min	Case Grounded	GΩ,min		[7.5]	PI	N3 /	PIN 2 Y AXIS (2) OUTPUT					
								Z	AXIS) 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