

MODEL NUMBER	PERFORMANCE SPECIFICATION										
3023BZ										PS3053B2	
					R, IEPE				REVE, ECN 16	245, 06/29/21	
13				This family also includes:							
/=				Model	Mount	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp (°F)	TC (sec)	
	• 10-32 TAPPED HOLE			3053B	Adhesive	10	500	<0.007	-60 to +250	0.3 - 1.0	
	• HERMETICALLY SEALEI	2		3053B1	Adhesive	5	1000	< 0.014	-60 to +250	0.2 - 1.2	
DYTE				000021	, tanoon o	0	1000	40.011	00101200	012 112	
30 RAN											
SU53BUSA				Refer to the performance specifications of the products in this family for detailed description.							
S/N XXX				Supplied Accessories							
~~XX			1) Accredited calibration certificate (ISO 17025)								
					2) Model 6200 mounting stud 10 - 32 UNF - 2A.						
		Notes:									
ENGLISH SI III Case ground isolation is achiever											
PHYSICAL	[2] Connector mates with Dytran cable assy. Model 6430AXX. (XX = length in feet)										
Weight	0.26 oz	[3] Reference sensitivity measured at 100 Hz, 1 g RMS per ISA RP 37.2									
Mounting Provision [1]	10-32 Tapped hole	10-32 Tapped hole	1 -	[4] Linearity i	s % of speci	ied full scale (or any	lesser full scale rai	nge), zero-based best fi	t straight line method.		
Connector [2]	4-Pin	4-Pin		[5] Do not ap	ply power to	this device without c	urrent limiting, 20m	A max, to do so will des	troy the integral IC ar	nplifier	
Material	Titanium Alloy	Titanium Alloy		[6] Typical. N	ot to exceed	.010 g RMS [.10 m/s	s ²].				
Sensing Element	Quartz	Quartz		[7] In the inte	rest of const	ant product improven	nent, we reserve th	e right to change specif	ications without notice	e. It is the	
				customer's re	esponsibility	to validate that a part	icular product with	the properties described	d in the product specif	ication is suitable	
PERFORMANCE				for use in a p	articular app	lication. Parameters	provided in datash	eets and / or specification	ons may vary in differe	ent applications	
Sensitivity, -10/+15% [3]	10 mV/g	1.02	mV/ m/s ²	and performa	ince may va	ry over time. All opera	ating parameters, ii	ncluding typical paramet	ters, must be validate	d for each	
Range F.S. (each axis)	± 500 g pk	± 4900	m/s ² pk	customer app	plication by the	ne customer's technic	cal experts.				
Frequency Response, ± 10%, 1 & 2 Axes	1.1 to 4000 Hz	1.1 to 4000	Hz	[8] All specifi	cations are a	t room temperature ι	unless otherwise sp	ecified.			
Frequency Response, ± 10% 3 Axis	1.1 to 5000 Hz	1.1 to 5000	Hz								
Resonant Frequency	>30 kHz	>30	kHz								
Broadband Resolution [6]	0.007 g RMS	0.07	m/s ² RMS		-	50	_	ITPICAL LOW FRE	QUENCT RESPONSE		
Linearity [4]	± 1% %F.S	± 1%	%F.S				<u></u> ₀ ⊢				
Transverse Sensitivity, Max.	5%	5%	-	-			€ -10 -				
Signal Polarity	Positive for motion in direction of arrows on housing				r	Ì	.01 -20				
							<u>⊢</u> ≜ -30 ⊢				
				.50			→ -40				
ENVIRONMENTAL Maximum Shock	+ 5000 a pk	+ 40000	(-2 1-	1			¹ ∰ -50 └_				
Temperature Range	-60 to +250 °F	-51 to 121	nivs pk °C	↓		— ~ر	<u>க</u> 0.1	1	10	100	
Seal	Hermetic	Hermetic	1 ~	<u> </u>				Freque	ency (Hz)		
Coefficient Of Thermal Sensitivity	0.03 %/°F	0.054	%/°C					TYPICAL PH	ASE RESPONSE		
· · · · · · · · · · · · · · · · · · ·	,,,,,		4				¹⁰ F				
				Т	<u> </u>		(SB 5				
ELECTRICAL			_	T T			garer 1				
Supply Current [5]	2 to 20 mA	2 to 20	mA				0 (de				
Compliance Voltage Range	+18 to +30 V	+18 to +30	V	.53		ILLA					
Output Impedence Typ.	100 Ω	100	Ω	I 1		ਸ਼== \ [ੱ	eg -5				
Bias Voltage	+7 to +9 VDC	+7 to +9	VDC	↓			≝10 L				
Discharge Time Constant	0.3 to 1.0 sec	0.3 to 1.0	sec	1			2		20		
Ground Isolation	>10 MΩ	>10	MΩ					Fi	equency (Hz)	1	
				Units on the line	arawing are in ir	icnes, units in brackets are	in millimeters. Refer to 1	27-3053B2 for more informatic	n.		
21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com											
For permission to reprint this content, please contact info@dytran.com											
L											