Model Number 633A01		PIEZOELECTRIC USB DIGITAL ACCELEROMETER							sion: A #: 48885	
Performance		ENGLISH	<u>SI</u>			OP [.]	TIONAL VERSIO	NS		
Sensitivity(Channel A)		334,566 counts/g	34,105 counts/(m/s ²)	[2][3]	Optional versions have identical specifications and accessories as listed for the standard model					
Sensitivity(Channel B)		664,689 counts/g	67,756 counts/(m/s ²)	[2][3]	ex	cept where noted b	elow. More than one	e option may be used	1.	
Measurement Range(Channel A)		± 20 g pk	± 196 m/s² pk	[1]						
Measurement Range(Channel B)		± 10 g pk	± 98 m/s² pk	[1]						
ADC Bandwidth(-3 dB)		9.3 to 1,374,000 cpm	0.155 to 22,900 Hz							
Frequency Range(± 5 %)		120 to 480,000 cpm	2 to 8000 Hz	[4][1]						
Frequency Range(± 10 %)		90 to 660,000 cpm	1.5 to 11,000 Hz	[4][1]						
Frequency Range(± 3 dB)		54 to 900,000 cpm	0.9 to 15,000 Hz	[4][1]						
Resonant Frequency		≥ 1500 kcpm	≥ 25 kHz							
Mounted Resonance		1044 kcpm	17.4 kHz	[1]						
Mounted Resonance Amplification		200 %	200 %	[1]						
Broadband Resolution(1 to 10,000 Hz)		0.0025 g pk	0.0245 m/s² pk	[1][3]						
Non-Linearity		≤ 2 %	≤ 2 %	[5]	NOTES:					
Transverse Sensitivity		≤ 5 %	≤ 5 %		[1] Typical.					
Environmental								refer to calibration la	bel.	
Overload Limit(Shock)		7000 g pk	68,647 m/s² pk		[3] Conversion Fa	ctor 1g = 9.81 m/s ² .				
Temperature Range(Operating)		+14 to +158 °F	-10 to +70 °C		 [4] Frequency range at highest supported sample rate. [5] Zero-based, least-squares, straight line method. [6] 1/4-28 has no equivalent in S.I. units. 					
Temperature Response(Coefficient)		0.10 %/°F	0.18 %/°C	[1]						
Electrical	,				[0] 1/4-20 Has Ho [7] See PCB Decl	aration of Conforma	ance PS194 for deta	ile		
Communication Standard		USB 2.0 Full Speed	USB 2.0 Full Speed							
Power Consumption		≤ 45 mA	≤ 45 mA	[1]						
Internal ADC		24 bit	24 bit							
Supported Resolution Rates(Selectable)		24 bit 16 bit	24 bit 16 bit							
Supported Sample Rates(Selectable)		48 44.1 32 22.05 16 11.025 8 kHz	48 44.1 32 22.05 16 11.025 8 kHz							
Physical										
Size (Hex x Height)		1.0 in x 2.6 in	25.4 mm x 66.0 mm							
Weight		4.62 oz	131 gm							
Mounting Thread		1/4-28 UNF	1/4-28 UNF	[6]						
Mounting Torque		2 to 5 ft-lb	2.7 to 6.8 Nm	• •						
Sensing Element		Ceramic	Ceramic							
Sensing Geometry		Shear	Shear							
Housing Material		Stainless Steel	Stainless Steel		SUPPLIED ACCESSORIES:					
Sealing		Welded Hermetic	Welded Hermetic		Model 081A40 Mo	Model 081A40 Mounting Stud				
Electrical Connector		Integral Cable	Integral Cable		-					
Electrical Connector		USB Type A Male	USB Type A Male			1	1			
Electrical Connection Positio	on	Тор	Тор		Entered: LK	Engineer: GD	Sales: MC	Approved: BAM	Spec Number:	
Cable Length		9.6 ft	2.9 m			<u> </u>				
g					Date: 11/27/2018	Date: 11/27/2018	Date: 11/27/2018	Date: 11/27/2018	69746	
All specifications are at room		unless otherwise specified. ment, we reserve the right to cha	101 - 11 ¹ - 11 - 11 - 11 - 11			CENSORS		Phone: 800-959 Fax: 716-684-38 E-Mail: imi@pc	823	