Model Number	TRIAXIAL ICP® ACCELEROMETER						Rev	ision: A
354M56							ECI	N #: 42197
Performance	ENGLISH	<u>SI</u>		1	OF	TIONAL VERSIO	ONS	
Sensitivity(± 15 %)	10 mV/g	1.02 mV/(m/s ²)		Optional versions	-		ssories as listed for th	ne standard model
Measurement Range	± 500 g pk	± 4905 m/s ² pk					e option may be use	
Frequency Range(± 5)	2 to 8000 Hz	2 to 8000 Hz						
Resonant Frequency	≥ 40 kHz	≥ 40 kHz						
Broadband Resolution(1 to 10,00	00 Hz) 0.003 g rms	0.03 m/s ² rms	[1]					
Non-Linearity	ý ≤1%	≤1%	[2]					
Transverse Sensitivity	≤ 5 %	≤ 5 %						
Environmental								
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s² pk						
Temperature Range	-65 to +250 °F	-54 to +121 °C						
Temperature Response	See Graph	See Graph						
Electrical								
Excitation Voltage	18 to 30 VDC	18 to 30 VDC						
Constant Current Excitation	2 to 20 mA	2 to 20 mA						
Output Impedance	≤ 200 Ohm	≤ 200 Ohm						
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC						
Discharge Time Constant	0.3 to 1.0 sec	0.3 to 1.0 sec		NOTES:				
Settling Time(within 10% of bias)		<3 sec		[1] Typical.				
Spectral Noise(1 Hz)	1000 µg/√Hz	9810 (µm/sec ²)/√Hz	[1]	[2] Zero-based,	east-squares, straig	ht line method.		
Spectral Noise(10 Hz)	300 μg/√Hz	2943 (µm/sec ²)/√Hz	[1]	[3] See PCB De	claration of Conform	ance PS023 for det	ails.	
Spectral Noise(100 Hz)	80 µg/√Hz	2943 (µm/sec ²)/√Hz	[1]					
		(i). ·	[1]					
Spectral Noise(1 kHz)	25 µg/√Hz	308 (µm/sec²)/√Hz	[1]					
Electrical Isolation	>10 ⁸ Ohm	>10 ⁸ Ohm						
Physical								
Sensing Element	Ceramic	Ceramic						
Sensing Geometry	Shear	Shear						
Housing Material	Titanium	Titanium						
Sealing	Hermetic	Hermetic						
Size (Height x Length x Width)	0.30 in x 0.55 in x 0.55 in	7.6 mm x 14.0 mm x 14.0 mm						
Weight(without cable)	0.18 oz	5.0 gm	[1]					
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin						
Electrical Connection Position	Side	Side						
Cable Length	5 ft	1.5 m						
Cable Type	034 4-cond Shielded	034 4-cond Shielded						
Mounting	Through Hole	Through Hole						
Mounting Torque	4 to 5 in-lb	45 to 55 N-cm						
	🙀 Typical Sensiti	vity Deviation vs Temperature						
				SUPPLIED AC	CESSORIES:			
	∺ ³⁰ ⊤				Cable,Low Outgas, 4	-pin Plug to 3 BNC.	(1)	
	ä 10- −−−−		_	Model 081M216	Low Outgas Mounti	ng Screw, 5-40 thd	x 1/2" long (1)	
	<u>م</u> ج -10			Model ACS-1T N	IIST traceable triaxia	al amplitude respons	se, 10 Hz to upper 5%	6 frequency. (1)
	-™T			1				
	:텵 -30 - ,			F		1		1
	ទ្លី -70 -30 1	10 50 90 130 170 210	250	Entered: AP	Engineer: JJB	Sales: WDC	Approved: JJB	Spec Number:
	60	Temperature (°F)		Date: 11/8/2013	Date: 11/8/2013	Date: 11/8/2013	Date: 11/8/2013	35208
		(i)			<u> </u>	<u> </u>		U
	perature unless otherwise specified.	na provisionationa without rotics		Anc				6-684-0001
	t improvement, we reserve the right to char	ige specifications without notice.			PIEZOTI	UNILS	Fax: 716-6	
ICP [®] is a registered trademark o	PCB Group Inc				enue, Depew, NY 14		E Mail. ind	o@pcb.com