



1 2 D С 2X MOUNTING SCREW, MODEL 6687A1 (M4x0.7 X 25mm), SUPPLIED PREPARE FLAT MOUNTING SURFACE EQUAL TO OR BETTER THAN.001 TIR. В INSTRUMENTS, INC. Chatsworth, CA Α OUTLINE/INSTALLATION DWG, TRIAXIAL DC ACCELEROMETER, 7603D SERIES DWG NO REV CAGE CODE 127-7603D 2W033 2:1 SHEET 2 OF 2

Model Number 7603D7	PERFORMANCE SPECIFICATION TRIAXIAL VARIABLE CAPACITANCE ACCELEROMETER								DOC NO PS7603D7 REV E, ECN 14848, 02/05/19
	This family also includes:							•	4
	• VARIABLE CAPACITANCE TECHNOLOGY • DIFFERENTIAL MODE • HERMETICALLY SEALED • DC RESPONSE			Model	Input Range (g)	Frequency Response, ±3dB (Hz)	Sensitivity Differential, ±5% (mV/a)	Max.Shock (0.1ms)	Noise Differential (µg/VHz)
				7603D1	±2	0-400	250	2000	7
				7603D2	±5	0-500	100	2000	12
				7603D3	±10	0-1000	50	5000	18
				7603D4 7603D5	±25	0-1400	20	5000	25
					±50	0-2000	10	5000	50
				7603D6	±100	0-2500	5	5000	100
				7603D8	±400	0-4000	1.25	5000	400
-					Refer to the performance specifications of the products in this family for detailed description.				
	ENGLISH	ENGLISH SI			Supplied Accessories:				
PHYSICAL			1						
Veight, Max	1.3 oz	38	grams		d calibration certific	. ,			
Connector Type	9-pin, 5/16-32 UNEF-2A	9-pin, 5/16-32 UNEF-2A			stud, Model 6360,				
/aterial	Titanium Alloy	Titanium Alloy			stud, Model 6691,				
Sensing Technology	MEMS	MEMS			screws, Model 690				
				5) Mounting screws, Model 6687A1, M4x0.7 x 25mm, Qty. 2					
ERFORMANCE				<ol><li>Flat wash</li></ol>	ers, Model 6754, Q	ty. 2			
put Range	<u>+200</u> g	±1962	m/s <sup>2</sup>						
requency Response (±5%)	0 - 1500 Hz	0 - 1500	Hz	Notes:					
requency Response (±3dB)	0 - 3000 Hz	0 - 3000	Hz	[1] Single en	ded sensitivity is ha	alf of values sho	wn. (Ref. at 100 Hz)		
Resonant Frequency	>3000 Hz	>3000	Hz	[2] -90% to +	90% of Full Scale.				
Sensitivity Differential, ±5% [1]	2.5 mV/g	0.25	mV/m/s <sup>2</sup>	[3] Over the	rated temperature	range.			
Dutput Noise, Differential ,Typ	200 µ g rms/√ Hz	1,962	μ m/s² /√ Hz		ge equal to (+v - (-v				
Non-Linearity, Max [2]	0.5 % F.S	0.5	% F.S				ent, we reserve the ri	ight to change specificat	tions without notice.
Cross Axis Sensitivity, Max	3 %	3	%				n with V- grounded.	0 0 1	
						-	- [.36 [34.4]	-	
		10050	m/s <sup>2</sup> peak				.99	-	
Maximum Mechanical Shock (0.1 ms)	±5000 gpk	±49050		,75,2X				2X Ø.18 THRU [4.4]	
Bias Temperature Shift ,Max [3]	111 (ppm of span)/°F	200	(ppm of span)/°C						÷
Bias Calibration Error, Max	0.5 % of span	0.5	% of span						
Operating Temperature Range	-67 to +257 °F	-55 to +125	°C			0.43	$\square \land \land$		9
Seal	Hermetic	Hermetic	J			[10.9]		[19]	
LECTRICAL					5/16-32 U 9-PIN CO	NEE-2A		I	
Dutput Common Mode Voltage, ± VDC	[4]	[4]			3-HIN CO	NNECTOR-	¥	t	-
Dutput Impedance,Nom	1225 Ω	1225	Ω						
Dperating Voltage [6]	±3 to ±11 VDC	±3 to ±11	VDC					- +	
Derating Current (AOP &AON open), Max	35 mA Dc	35	mA Dc			13	-		
Power Supply Rejection Ratio	>65 dB	>65	dB					.83	
			-			.41		[21]	
						[10.5]			
						+	· · · · · ·		
	14-28 UNF-2B						1/4-28 UNF-28		
				Units on the line drawing are in inches. Refer to 127-7603D for more information.					
				040 500					
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