



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 7603D5		PERFORMANCE SPECIFICATION								
	TRIAXIAL VARIABLE CAPACITANCE ACCELEROMETER									REV E, ECN 14848, 02/05/19
·					This family a	also includes:				
	• VARIABLE CAPACITANCE TECHNOLOGY • DIFFERENTIAL MODE • HERMETICALLY SEALED				Model	Input Range (g)	Frequency Response, ±3dB (Hz)	Sensitivity Differential, ±5% (mV/g)	Max.Shock (0.1ms)	Noise Differential (µg/vHz)
~ ~ /					7603D1	±2	0-400	250	2000	7
• (((()					7603D2	±5	0-500	100	5000	12
					7603D3	±10	0-1000	50	5000	18
	• DC RESPONSE			7603D4	±25	0-1400	20	5000	25	
				7603D6	±100	0-2500	5	5000	100	
				7603D7	±200	0-3000	2.5	5000	200	
					7603D8	±400	0-4000	1.25	5000	400
	ENGLISH SI				Refer to the performance specifications of the products in this family for detailed description.					
IYSICAL	ENGLISH		01		Supplied Ac	cessories.				
eight, Max	1.3	oz	38	grams		calibration certifica	ate (ISO 17025)			
onnector Type	9-pin, 5/16-32 UNEF-2A	02	9-pin, 5/16-32 UNEF-2A	granio		stud, Model 6360, 1				
aterial	Titanium Alloy		Titanium Alloy		, .	stud, Model 6691, 1				
Sensing Technology	MEMS		MEMS							
	IVIEIVIS				4) Mounting screws, Model 69034A16, 8-32 x 1.0, Qty. 2 5) Mounting screws, Model 6687A1, M4x0.7 x 25mm, Qty. 2					
ERFORMANCE						ers, Model 6754, Qt		Smin, Qty. 2		
put Range	±50	g	±490.5	m/s <sup>2</sup>	-,	,	<i>y</i> . –			
equency Response (±5%)	0 - 1200	Hz	0 - 1200	Hz	Notes:					
equency Response (±3dB)	0 - 2000	Hz	0 - 2000	Hz	[1] Single ended sensitivity is half of values shown. (Ref. at 100 Hz)					
esonant Frequency	>3000	Hz	>3000	Hz		90% of Full Scale.		· · · ·		
ensitivity Differential, ±5% [1]	10	mV/g	1.0	mV/m/s <sup>2</sup>	[3] Over the rated temperature range.					
utput Noise, Differential , Typ		μg rms/v Hz	491	μ m/s <sup>2</sup> /v Hz		ge equal to (+v - (-v	0			
on-Linearity, Max [2]	0.5	% F.S	0.5	% F.S				ent, we reserve the rid	ght to change specificatio	ns without notice.
ross Axis Sensitivity, Max	3	%	3	%		2.0 VDC in single s	-		, , , , , , , , , , , , , , , , , , ,	
							H	.36 94.4]		
NVIRONMENTAL aximum Mechanical Shock (0.1 ms)	±5000		±49050	m/s² peak				.99		
as Temperature Shift ,Max [3]		gpk om of span)/°F	±49050 200	(ppm of span)/°C				.75 [19]	2X Ø.18 THRU [4.4]	
as remperature Sniit, Max [3] as Calibration Error, Max			0.5						1	
perating Temperature Range	-67 to +257	% of span °F	-55 to +125	% of span °C				ΨΨ		
perating remperature kange pal	Hermetic	Г	Hermetic	C			ø.43			
501	Hermetic		Tienneuc	L			[10.9]		[19]	
ECTRICAL						5/16-32 UNEF	24			
utput Common Mode Voltage, ± VDC	[4]		[4]			5/16-32 UNEF 9-PIN CONNE	CTOR-	Ψ	<u> </u>	
utput Impedance,Nom	1225	Ω	1225	Ω						
perating Voltage [6]	±3 to ±11	VDC	±3 to ±11	VDC				()		
perating Current (AOP &AON open), Max	35	mA Dc	35	mA Dc						
ower Supply Rejection Ratio	>65	dB	>65	dB					.83	
				-			.41		[21]	
							[10.5]			
							+			
									28 UNF-2B	
					Linits on the line d	rawing are in inches. Refe	r to 127-7603D for m	ore information		