

Model Number 7576A3	PERFORMANCE SPECIFICATION									DOC NO PS7576A3 REV D, ECN 17398, 02/08/24	
	6DOF VIBRATION SENSOR										
						also includes:	•				
-		• VARIABLE CAPACITANCE TECHNOLOGY • 6 DEGREES OF FREEDOM MEASUREMENTS				Input Range (EU) Accel/Gyro	Frequency response (Hz) Accel./Gyro	, ±10% (mV/EU) Accel/Gyro	Max.Shock (0.1ms), g	Noise (EU/vHz) Accel./Gyr	
I BATRAT	 VARIABLE CAPACITA 					±5 / ±50	0-1300 / 0-1000	470 / 25	6000	0.00004 / 0.04	
1576AX						±10/±150	0-2500 / 0-3000	235 / 12.5	6000	0.00004 / 0.04	
AZ SIN XA	 HERMETICALLY SEAI 	LED			7576A4	±200 / ±20000	0-3800 / 0-2000	11.75 /0.1	6000	0.0009 / 0.25	
GZ AX	• DC RESPONSE				7576A5 7576A6	±2 / ±50	0-1150 / 0-1000	1175 / 25	6000	0.0000088 / 0.04	
AYB						±2 / ±150	0-1150 / 0-3000	1200 / 12.5	6000	0.0000088 / 0.04	
or or	INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR) FREE				Refer to the performance specifications of the products in this family for detailed description.						
	ENGLISH	ENGLISH		SI		Supplied Accessories:					
IYSICAL						d calibration certifi					
eight, Max	1.9	oz	55	grams			3, 8-32 UNF-2A, qty	2			
nnector Type	5/16-32 UNEF-2A		5/16-32 UNEF-2A		3) Mounting washer model 6754, qty 2						
terial	Ti-6AI-4V		Ti-6AI-4V			screw model 6687	', M4 X 0.7, qty 2				
					Notes:						
								ss otherwise specifie	d.		
CELEROMETER PERFORMANCE	ı					d using Earth grav					
ut Range	±30	g	±294	m/s ²		ero-based line met					
quency Response (±5%)	0-1000	Hz	0-1000	Hz		rated temperature	-				
quency Response (±3dB)	0-3000 Hz 0-3000 Hz [5] In the interest of constant product improvement, we reserve the right to change specificatio										
ale Factor, Nom. [1]	78.33 mV/g 8.0 $mV/m/s^2$ It is the customer's responsibility to validate that a particular product with the properties describe 0.000089 g rms/ \sqrt{Hz} 0.0009 $m/s^2/\sqrt{Hz}$ specification is suitable for use in a particular application. Parameters provided in datasheets and the specification is suitable for use in a particular application.						•				
tput Noise, Typ.											
n-Linearity, Typ. [2]		% F.S		% F.S			•		ting parameters, includi	ing typical parameters	
mperature Range	-67 to 257	°F	-55 to 125	°C	must be value	dated for each cus	tomer application	by the customer's tecl	hnical experts.		
ale Factor Temperature Coefficient [3]	67	ppm/°F	120	ppm/°C				1.42			
is misalignment, Max.	10	mrad	10	mrad			-	36.1			
lock Survivability	6000	g	58860	m/s ²					2X Ø.175[4.45] THRU	1	
esonant Frequency	>5 kHz >5 kHz										
oss Axis Sensitivity, Max.	5	%	5	%		1.05	.75		÷		
put Range	±250	°/sec	±250	°/sec		[26.7]	[19]		53		
equency Response	0-2500	Hz	0-2500	Hz					3.3]		
nsitivity ±10% [1]	7.0	mV/°/sec	7.0	mV/°/sec			-'		T		
te noise density, Typ.	0.06	(°/sec)/v Hz	0.06	(°/sec)/v Hz			.75		Ť		
n-Linearity, Typ [2]	0.2	% F.S	0.2	% F.S			[19 1.0	5			
mperature Range	-40 to 221	°F	-40 to 105	°C			[26.				
sonant Frequency	5.7	kHz	5.7	kHz							
oss Axis Sensitivity, Max.	5	%	5	%							
									16-32 UNEF-2A		
ECTRICAL			·	<i>.</i>		Ī		9	PIN CONNECTOR		
tput Impedance,Nom	2	Ω	2	Ω		1.05			1		
erating Voltage	6 to 14	VDC	6 to 14	VDC		[26.7]					
Itput Bias Voltage ±0.5 VDC	2.5	VDC	2.5	VDC)	.53 [13.3]		
	ax 28	mA DC mA DC	23	mA DC					[13.3]		
wer Supply Rejection Ratio	ax 28 >65	dB	28 >65	mA DC dB		(.17 ([4.3])			ł		
VIRONMENTAL			,,								
orage Temperature	-67 to 257	°F	-55 to 125	°C							
eal	Hermetic		Hermetic		Units on the line of	drawing are in inches. Re	er to 127-7576A1 for more	information.			
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