

Model Number	tel Number 7576A5 PERFORMANCE SPECIFICATION 6DOF VIBRATION SENSOR								DOC NO PS7576A5
131045									REV C, ECN 14974, 03/25/19
	6DOF VIBRATION SENSOR This family also includes:								
				Model	Input Range (EU) Accel/Gyro	Frequency response (Hz) Accel./Gyro	, ±10% (mV/EU) Accel/Gyro	Max.Shock (0.1ms), g	Noise (EU/vHz) Accel./Gyro
a an	VARIABLE CAPACITANCE TECHNO	DLOGY		7576A1	±5 / ±50	0-1300 / 1-1000	470 / 25	6000	0.000019 / 0.04
7-676AX	<ul> <li>6 DEGREES OF FREEDOM MEASUR</li> </ul>	REMENTS		7576A2	±10 / ±150	0-2500 / 1-3000	235 / 12.5	6000	0.00004 / 0.04
AZ SIN XXXX	• HERMETICALLY SEALED			7576A3	±30 / ±250	0-3000 / 0.01-2500	78.33 / 7	6000	0.000089 / 0.06
All of cx	• DC RESPONSE • INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR) FREE				7576A4         ±200 / ±20000         0-3800 / 0-2000         11.75 /0.1         6000         0.0009 / 0           Refer to the performance specifications of the products in this family for detailed description.         6000         0.0009 / 0				
-	ENGLISH SI			Supplied Accessories:					
IYSICAL				1) Accredited calibration certificate (ISO 17025)					
/eight, Max	1.9 oz	55	grams	2) Mounting	screw model 6753,	8-32 UNF-2A, qty 2			
onnector Type	5/16-32 UNEF-2A	5/16-32 UNEF-2A		3) Mounting	washer model 6754	4, qty 2			
laterial	Ti-6AI-4V	Ti-6AI-4V		4) Mounting	screw model 6687,	M4 X 0.7, qty 2			
				Notes:					
CCELEROMETER PERFORMANCE					d using Earth gravit				
put Range	<u>±2</u> g	±19.6	m/s <sup>2</sup>	[2] Best fit zero based line method					
equency Response (±5%)	0-700 Hz	0-700	Hz	[3] Over the rated temperature range.					
equency Response (±3dB)	0-1150 Hz	0-1150	Hz	[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.					
cale Factor, Nom. [1]	1175 mV/g	119.8	mV/m/s <sup>2</sup>	It is the customer's responsibility to validate that a particular product with the properties described in the product					
utput Noise,Typ	0.0000088 g rms/√ Hz	0.00009	m/s² /√ Hz	specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications					
on-Linearity, Typ. [2]	0.2 % F.S	0.2	% F.S	may vary in different applications and performance over time. All operating parameters, including typical parameters,					
emperature Range	-67 to 257 °F	-55 to 125	°C	must be vali	dated for each cust	omer application by	he customer's technic	al experts.	
cale Factor Temperature Coefficient [3]	67 ppm/°F	120	ppm/°C						
kis misalignment, Max.	10 mrad	10	mrad			1.4	2		
hock Survivability	6000 g	58860	m/s <sup>2</sup>			36.			
esonant Frequency	1.2 kHz	1.2	kHz					Ø.175[4.45] THRU	
ross Axis Sensitivity, Max.	5 %	5	%		•		<b>A</b>		
YRO PERFORMANCE					1.05		Y h		
nput Range	±50 °/sec	±50	°/sec		1.05	.75	/		
requency Response	1-1000 Hz	1-1000	Hz	.53					
ensitivity ±10% [1]	25 mV/°/sec	25	mV/°/sec	[13.3]					
ate noise density, Typ.	0.04 (°/sec)/V Hz	0.04	(°/sec)/v Hz	1		.75			
on-Linearity, Typ [2]	0.2 % F.S	0.2	% F.S	1		- [19] -			
emperature Range	-40 to 221 °F	-40 to 105	°C	1		1.05			
esonant Frequency	14.5 kHz	14.5	kHz			[26.7]	-1		
ross Axis Sensitivity, Max.	5 %	5	%						
ECTRICAL							5/16-3	2 UNEF-2A	
utput Impedance,Nom	2 Ω	2	Ω	1	İ		9 PIN	CONNECTOR	
perating Voltage	6 to 14 VDC	6 to 14	VDC		1.05				
utput Bias Voltage ±0.5 VDC	2.5 VDC	2.5	VDC	1	[26.7]				
perating Current Typical	23 mA DC	23	mA DC	1		(	)		
Max	28 mA DC	28	mA DC	1	1		[13.3	5	
ower Supply Rejection Ratio	>65 dB	>65	dB	1					
			-		(.17 [4.3]) -	-	-		
NVIRONMENTAL orage Temperature	-67 to 257 °F	-55 to 125	°C		/ [4.0] /				
eal	Hermetic	Hermetic	0	Linite on the Pro-	drawing are in inches. D-f	er to 127-7576A1 for more in	formation		
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