

Model Number 7576A2	PERFORMANCE SPECIFICATION							DOC NO PS7576A2	
131082	6DOF VIBRATION SENSOR							REV C, ECN 14974, 03/25/19	
I		This family also includes:					REV C, ECN 14974, 03/25/19		
			Model	Input Range (EU) Accel/Gyro	Frequency response (Hz) Accel./Gyro	Sensitivity , ±10% (mV/EU) Accel/Gyro	Max.Shock (0.1ms), g	Noise (EU/vHz) Accel./Gyro	
C TRAFF	 VARIABLE CAPACITANCE TECHNO 	DLOGY	7576A1	±5 / ±50	0-1300 / 1-1000	470 / 25	6000	0.00004 / 0.04	
7576AX	 6 DEGREES OF FREEDOM MEASUR 	REMENTS	7576A3	±30 / ±250	0-3000 / 0.01-2500	78.33 / 7	6000	0.000089 / 0.06	
AZ SIN XXXX	 HERMETICALLY SEALED 		7576A4	±200 / ±20000	0-3800 / 0-2000	11.75 / 0.1	6000	0.0009 / 0.25	
AVS CX AX	OC RESPONSE INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR) FREE			7576A5 ±2 / ±50 0-1150 / 1-1000 1175 / 25 6000 0.0000088 / Refer to the performance specifications of the products in this family for detailed description. <					
	ENGLISH SI			Supplied Accessories:					
PHYSICAL			1) Accredite	1) Accredited calibration certificate (ISO 17025)					
Weight, Max	1.9 oz	55 grams	2) Mounting	2) Mounting screw model 6753, 8-32 UNF-2A, qty 2					
Connector Type	5/16-32 UNEF-2A	5/16-32 UNEF-2A	3) Mounting	3) Mounting washer model 6754, qty 2					
Material	Ti-6Al-4V	Ti-6AI-4V	4) Mounting	4) Mounting screw model 6687, M4 X 0.7, qty 2					
			Notes:						
ACCELEROMETER PERFORMANCE				d using Earth grav	ity				
Input Range	±10 g	±98.1 m/s ²	[2] Best fit ze	ero based line met	hod				
Frequency Response (±5%)	0-600 Hz	0-600 Hz		[3] Over the rated temperature range.					
Frequency Response (±3dB)	0-2500 Hz	0-2500 Hz		[3] Over the value temperature range.[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.					
Scale Factor, Nom. [1]	235 mV/g	24.0 mV/m/s		It is the customer's responsibility to validate that a particular product with the properties described in the product					
Output Noise, Typ.	0.00004 g rms/√ Hz	0.0004 m/s ² /√		specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications					
Non-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,					
Temperature Range	-67 to 257 °F	-55 to 125 °C		must be validated for each customer application by the customer's technical experts.					
Scale Factor Temperature Coefficient [3]	67 ppm/°F	120 ppm/°C			application by		iour oxportor		
Axis misalignment, Max.	10 mrad	10 mrad			1.4	2			
Shock Survivability		58860 m/s ²			36.				
Resonant Frequency	6000 g >2.8 kHz	>2.8 kHz			_	2X	Ø.175[4.45] THRU		
Cross Axis Sensitivity, Max.	5 %	5 %		4		T.			
GYRO PERFORMANCE Input Range	±150 °/sec	±150 °/sec		1.05 [26.7] [.75				
Frequency Response Sensitivity ±10% [1]	1-3000 Hz 12.5 mV/⁵/sec	1-3000 Hz 12.5 mV/°/se		.75					
Rate noise density, Typ.	0.04 (°/sec)/v Hz	0.04 (°/sec)/v			- [19] -				
Non-Linearity, Typ [2]	0.2 % F.S	0.2 % F.S	5		1.05				
Temperature Range	-40 to 221 °F	-40 to 105 °C			[26.7]				
Resonant Frequency	14.5 kHz	14.5 kHz							
Cross Axis Sensitivity, Max.	5 %	5 %		4			32 UNEF-2A CONNECTOR		
Output Impedance,Nom	2 Ω	2 Ω					CONTROLOTON		
Operating Voltage	6 to 14 VDC	6 to 14 VDC		1.05					
Output Bias Voltage ±0.5 VDC	2.5 VDC	2.5 VDC		[26.7]		.55	3		
Operating Current Typical	23 mA DC	23 mA D0				[13.			
Max	28 mA DC	28 mA D0					-		
Power Supply Rejection Ratio	>65 dB	>65 dB	-	(.17 [4.3]) -					
ENVIRONMENTAL				([])					
Storage Temperature	-67 to 257 °F	-55 to 125 °C							
Seal	Hermetic	Hermetic	Units on the line	drawing are in inches. Re	efer to 127-7576A1 for more i	information.			
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