

 Model Number
 DOC NO

 7576A1
 PERFORMANCE SPECIFICATION
 PS7576A1

 6DOF VIBRATION SENSOR
 REV C, ECN 14974, 03/25/19



- VARIABLE CAPACITANCE TECHNOLOGY
- 6 DEGREES OF FREEDOM MEASUREMENTS
- HERMETICALLY SEALED
- DC RESPONSE
- INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR) FREE

		ENGLISH		SI	
PHYSICAL			•		
Weight, Max		1.9	oz	55	grams
Connector	Гуре	5/16-32 UNEF-2A		5/16-32 UNEF-2A	
Material		Ti-6Al-4V]	Ti-6AI-4V	
ACCELEROMETER PERFORMANC	Ε				
Input Range	_	±5	7 g	±49.1	m/s ²
Frequency Response (±5%)		0-1000	Hz	0-1000	Hz
Frequency Response (±3dB)		0-1300	Hz	0-1300	Hz
Scale Factor, Nom. [1]		470	mV/g	47.9	mV/m/s ²
Output Noise, Typ.		0.000019	g rms/√ Hz	0.00019	m/s² /√ Hz
Non-Linearity, Typ. [2]		0.2	% F.S	0.2	% F.S
Temperature Range		-67 to 257	°F	-55 to 125	°C
Scale Factor Temperature Coefficient [3]		67	ppm/°F	120	ppm/°C
Axis misalignment, Max.		10	mrad	10	mrad
Shock Survivability		6000	g	58860	m/s ²
Resonant Frequency		3	kHz	3	kHz
Cross Axis Sensitivity, Max.		5	%	5	%
		,	_		•
GYRO PERFORMANCE			_	-	•
Input Range		±50	°/sec	±50	°/sec
Frequency Response		1-1000	Hz	1-1000	Hz
Sensitivity ±10% [1]		25	mV/°/sec	25	mV/°/sec
Rate noise density, Typ.		0.04	(°/sec)/v Hz	0.04	(°/sec)/v Hz
Non-Linearity, Typ. [2]		0.2	% F.S	0.2	% F.S
Temperature Range		-40 to 221	°F	-40 to 105	°C
Resonant Frequency		14.5	kHz	14.5	kHz
Cross Axis Sensitivity, Max.		5	%	5	%
ELECTRICAL					
Output Impedance,Nom		2	Ω	2	Ω
Operating Voltage		6 to 14	VDC	6 to 14	VDC
Output Bias Voltage ±0.5 VDC		2.5	VDC	2.5	VDC
Operating Current	Typical	23	mA DC	23	mA DC
	Max	28	mA DC	28	mA DC
Power Supply Rejection Ratio		>65	dB	>65	dB
ENVIRONMENTAL					
Storage Temperature		-67 to 257] °F	-55 to 125	1 °c
Seal		Hermetic	1	Hermetic	1
F		11011110110	+		

This family also includes:								
	Innut Danna	Frequency	Sensitivity	May Charle (O. 4ma)	Noise			
	Input Range	response (Hz)	, ±10% (mV/EU)	Max.Shock (0.1ms),	Noise			
Model	(EU) Accel/Gyro	Accel./Gyro	Accel/Gyro	g	(EU/vHz) Accel./Gyro			
7576A2	±10 / ±150	0-2500 / 1-3000	235 / 12.5	6000	0.00004 / 0.04			
7576A3	±30 / ±250	0-3000 / 0.01-2500	78.33.3 / 7	6000	0.000089 / 0.06			
7576A4	±200 / ±20000	0-3800 / 0-2000	11.75 /0.1	6000	0.0009 / 0.25			
7576A5	±2 / ±50	0-1150 / 1-1000	1175 / 25	6000	0.0000088 / 0.04			

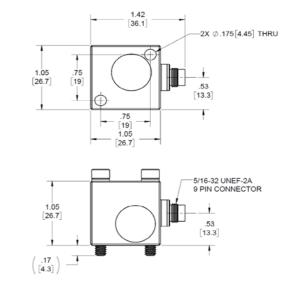
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screw model 6753, 8-32 UNF-2A, qty 2
- 3) Mounting washer model 6754, gty 2
- 4) Mounting screw model 6687, M4 X 0.7, qty 2

Notes:

- [1] Measured using Earth gravity
- [2] Best fit zero based line method
- [3] Over the rated temperature range.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches. Refer to 127-7576A1 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com