

Model Number		DOC NO
7576A4	PERFORMANCE SPECIFICATION	PS7576A4
	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

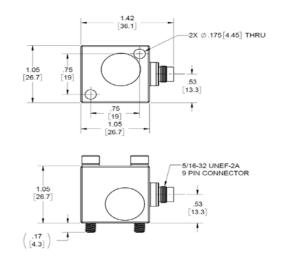
61					
	ENGLISH		SI		
PHYSICAL					
Weight, Max		1.9	oz	55	grams
Connector Ty	ype	5/16-32 UNEF-2A		5/16-32 UNEF-2A	_
Material		Ti-6AI-4V	]	Ti-6AI-4V	]
ACCELEROMETER PERFORMAN	CE				
Input Range		±200	g	±1962	m/s <sup>2</sup>
Frequency Response (±5%)		0-2000	Hz	0-2000	Hz
Frequency Response (±3dB)		0-3800	Hz	0-3800	Hz
Scale Factor, Nom. [1]		11.75	mV/g	1.2	mV/m/s <sup>2</sup>
Output Noise, Typ.		0.0009	g rms/√Hz	0.009	m/s² /√ Hz
Non-Linearity, Typ. [2]		0.3	% F.S	0.3	% F.S
Temperature Range		-67 to 257	°F	-55 to 125	°C
Scale Factor Temperature Coefficier	nt [3]	67	ppm/°F	120	ppm/°C
Axis misalignment. Max.	[0]	10	mrad	10	mrad
Shock Survivability		6000	q	58860	m/s <sup>2</sup>
Resonant Frequency		>4.5	kHz	>4.5	kHz
Cross Axis Sensitivity, Max.		5	%	5	%
Cross / tale Constitute, max.			,,,		,,,
GYRO PERFORMANCE					
Input Range		±20000	°/sec	±20000	°/sec
Frequency Response		0-2000	Hz	0-2000	Hz
Sensitivity ±10% [1]		0.1	mV/°/sec	0.1	mV/°/sec
Rate noise density, Typ.		0.25	(°/sec)/v Hz	0.25	(°/sec)/√ 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		17.5	kHz	17.5	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	¹ °F	-55 to 125	l °C
Seal		Hermetic	1	Hermetic	1

This family also includes:							
	Input Range	Frequency	Sensitivity				
	(EU)	response (Hz)	, ±10% (mV/EU)	Max.Shock	Noise		
Model	Accel/Gyro	Accel./Gyro	Accel/Gyro	(0.1ms), g	(EU/vHz) Accel./Gyro		
7576A1	±5 / ±50	0-1300 / 1-1000	470 / 25	6000	0.000019 / 0.04		
7576A2	±10 / ±150	0-2500 / 1-3000	235 / 12.5	6000	0.00004 / 0.04		
7576A3	±30 / ±250	0-3000 / 0.01-2500	78.33/7	6000	0.000089 / 0.06		
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, qty 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.



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