

#### Model Number DOC NO PERFORMANCE SPECIFICATION 7503A1 PS7503A1 TRIAXIAL VARIABLE CAPACITANCE ACCELEROMETER REV A, ECN 6510, 09/01/11



- VARIABLE CAPACITANCE TECHNOLOGY
- DIFFERENTIAL MODE
- HERMETICALLY SEALED
- DC RESPONSE

		ENGLISH	ENGLISH		SI	
HYSICAL					_	
Veight, Max		0.9	oz	25	grams	
Connector	Type	5/16-32 UNEF-2A		5/16-32 UNEF-2A		
Material		Ti-6AI-4V		Ti-6AI-4V		
		·			•	

#### PERFORMANCE

input Kange
Frequency Response (3dB), Nom
Sensitivity Differential, ±5% [1]
Output Noise, Differential ,Typ
Non-Linearity, Max [2]
Cross Avis Sensitivity May

### ENVIRONMENTAL

Maximum Mechanical Shock (0.1 ms
Bias Temperature Shift ,Max [3]
Bias Calibration Error, Max
Operating Temperature Range
Scale Factor Temperature Shift [3]
Seal

## ELECTRICAL

Output Common Mode Voltage, Typ Output Impedence,Nom Operating Voltage Operating Current (AOP &AON open), Max Power Supply Rejection Ratio

0 - 400	Hz
1000	mV/g
12	μ g rms/√ Hz
0.5	% F.S
3	%
	•

±5000	gpk
111	(ppm of span)/°
4	% of span
-67 to +221	°F
-139 to +83	ppm/°F
Hermetic	

2.5	VDC
1	Ω
9 to 26	VDC
30	mA Dc
>65	dB

-250 to +150	ppm/°C
Hermetic	
2.5	VDC
1	Ω
9 to 26	VDC

±19.62

0 - 400

102

118

0.5

3

±49050 200

-55 to +105

30

>65

This family also includes:					
Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±15% (mV/g)	Max.Shock (0.1ms)	Noise Differential (μg/VHz)
7503A2	±5	0-600	400	5000	14
7503A3	±10	0-1000	200	5000	15
7503A4	±25	0-1500	80	5000	38
7503A5	±50	0-2000	40	5000	75
7503A6	±100	0-2500	20	5000	150
7503A7	±200	0-3000	10	5000	300

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 6972, qty 2
- 3) Mounting washer model 6973, qty 2

# Notes:

 $m/s^2$ 

Hz

mV/m/s2

 $\mu$  m/s<sup>2</sup>/V Hz

% F.S

m/s2 peak

(ppm of span)/°C

% of span

mA Dc

dΒ

- [1] Single ended sensitivity is half of values shown.
- [2] -90% to +90% of Full Scale.
- [3] Over the rated temperature range.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.





