

Model Number DOC NO PERFORMANCE SPECIFICATION 7509A7-XX PS7509A7-XX VARIABLE CAPACITANCE ACCELEROMETER REV C, ECN 14114, 03/28/18



• VARIABLE CAPACITANCE ACCELEROMETER

g

Hz

mV/g

μg rms/V Hz

% F.S

- DIFFERENTIAL MODE
- DC RESPONSE
- TEFLON CABLE JACKET

		ENGLISH		SI	
PHYSICAL			_		_
Veight, Max.		0.5	oz	13	grams
Cable	Туре	Integral		Integral	
Mounting	Thru Holes	2 X Ø.13	in	2 X Ø3.3	mm
Material		Aluminum, Anodized		Aluminum, Anodized	

±200

0-1750

20

200

0.5

3

Ероху

PERFORMANCE

Input Range
Frequency Response, ±3dB, Min
Sensitivity Differential, ±10% [1]
Output Noise, Differential, Typ.
Non-Linearity, Max. [3]
Transverse Sensitivity, Max.
Scale Factor Calibration Error, Max.
Zero Measured Output

ENVIRONMENTAL

Maximum Mechanical Shock
Bias Temperature Shift, Max. [2]
Bias Calibration Error, Max
Operating Temperature Range
Scale Factor Temperature Shift [2]
Seal

ELECTRICAL

Output Common Mode Voltage, Typ. Output Impedance, Nom. Operating Voltage Operating Current (AOP & AON open) Power Supply Rejection Ratio Case Isolated

±50	mV
	7
5000	gpk
111	(ppm of span)/°F
.5	% of span
-67 to +257	°F
-111 to 111	nnm/°F

2.45	VDC
90	Ω
+5 to +28	VDC
7 to 10	mA DC
>65	dB
30	MO

49050	m/s² peak	
200	(ppm of span)/°C	
.5	% of span	
-55 to +125	°C	
-200 to 200	ppm/°C	
Epoxy		

±1962

0-1750

2.0

1,962

0.5

3

±50

	_
2.45	VDC
90	Ω
+5 to +28	VDC
7 to 10	mA DC
>65	dB
30	ΜΩ

This family also includes:					
Model	Input Range (g)	Frequency response (Hz)	Differential, ±10% (mV/g)	Max.Shock (gpk)	Noise Differential (μg rms/vHz)
7509A1-XX	± 2	0-300	2,000	2000	7
7509A2-XX	±5	0-400	800	2000	12
7509A3-XX	± 10	0-600	400	5000	18
7509A4-XX	± 25	0-900	160	5000	25
7509A5-XX	± 50	0-1200	80	5000	50
7500A6-XX	+ 100	0-1400	40	5000	100

5000

400

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

0-2000

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

± 400

- 2) Two mounting screws model # 6868, 4-40 X .50"
- 3) Two mounting screws model # 6688, M3x0.5 X 12mm

m/s²

Hz

mV/m/s²

 μ m/s²/V Hz

% F.S

%

m۷

7509A8-XX

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



