

Model Number DOC NO PERFORMANCE SPECIFICATION 7509A6-XX PS7509A6-XX VARIABLE CAPACITANCE ACCELEROMETER REV C, ECN 14114, 03/27/18



- VARIABLE CAPACITANCE ACCELEROMETER
- DIFFERENTIAL MODE
- DC RESPONSE
- TEFLON CABLE JACKET

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Type
Thru Holes

ENGLISH		SI	
0.5	oz	13	grams
Integral		Integral	
2 X Ø.13	in	2 X Ø3.3	mm
Aluminum, Anodized		Aluminum, Anodized	

PERFORMANCE

Input Pango

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

±100	g	±981	m/s ²
0-1400	Hz	0-1400	Hz
40	mV/g	4.1	mV/m/s ²
100	μ g rms/v Hz	981	μ m/s²/v Hz
0.5	% F.S	0.5	% F.S
3	%	3	%
1	%	1	%
±50	mV	±50	mV

ENVIRONMENTAL

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

5000	gpk
111	(ppm of span)/°
.5	% of span
-67 to +257	°F
-111 to 111	ppm/°F
Ероху	

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

ELECTRICAL

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

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

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This family also includes:

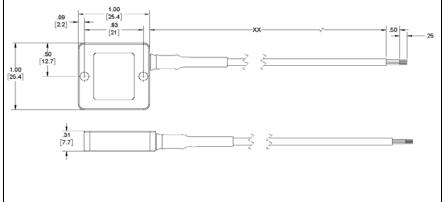
This failing also includes.					
Model	Input Range (g)	Frequency response (Hz)	Differential, ±10% (mV/g)	Max.Shock (gpk)	Noise Differential (µg rms/vHz)
7509A1-XX	± 2	0-300	2,000	2000	7
7509A2-XX	±5	0-400	800	2000	12
7509A3-XX	± 10	0-600	400	5000	18
7509A4-XX	± 25	0-900	160	5000	25
7509A5-XX	± 50	0-1200	80	5000	50
7509A7-XX	± 200	0-1750	20	5000	200
7509A8-XX	± 400	0-2000	10	5000	400

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

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Two mounting screws model # 6868, 4-40 X .50"
- 3) Two mounting screws model # 6688, M3x0.5 X 12mm

- [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.



Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7509AX-XX for more information.

