

Model Number 7506A2	PERFORMANCE SPECIFICATIONS			
	VARIABLE CAPACITANCE ACCELEROMETER	REV D, ECN 15579, 01/31/20		



• VARIABLE CAPACITANCE ACCELEROMETER

- CURRENT OUTPUT
- HERMETICALLY SEALED
- DC RESPONSE
- 4-20 mA LOOP COMPATIBLE

		ENGLI	ENGLISH		SI	
PHYSICAL			7		7	
Weight, Max		2.5	OZ	70	grams	
Connector [2]	Туре	Receptacle, 3-pin		Receptacle, 3-pin		
Mounting	Thru Holes	2 X Ø.125		2 X Ø.125		
Material		300 Series S.S.]	300 Series S.S.		
PERFORMANCE						
Input Range		±400	g	±3924	m/s ²	
Frequency Response (-3d	IB), ± 50Hz [1][5]	0-300	Hz	0-300	Hz	
Sensitivity Differential, ±10	0%	13	μA/g	1.3	μA/m/s²	
Output Noise, Differential	,Тур	400	μ g rms/√ Hz	3924	μ m/s²/√ Hz	
Non-Linearity, Max [4]		0.5	% F.S	0.5	% F.S	
Transverse Sensitivity, Ma	ax	4	%	4	%	
Scale Factor Calibration E	Error, Max	2	%	2	%	
Zero Measured Output		±50	mV	±50	mV	
ENVIRONMENTAL						
Maximum Mechanical Shock		5000	gpk	49050	m/s² peak	
Bias Temperature Shift ,M	Max [3]	56	(ppm of span)/°F	100	(ppm of span)/°C	
Bias Calibration Error, Ma	х	0.5	% of span	0.5	% of span	
Operating Temperature R	ange	-55 to +257	°F	-48 to +125	°C	
Scale Factor Temperature	e Shift [3]	-111 to 111	ppm/°F	-200 to 200	ppm/°C	
Seal		Hermetic]	Hermetic		
ELECTRICAL						
Bias Current		14-15	mA	14-15	mA	
Output Impedence,Nom		400	Ω	400	Ω	
Operating Voltage		10-36	VDC	10-36	VDC	
Operating Voltage Rise Ti	ime	<2	ms	<2	ms	
Full Scale Output		±5	mA	±5	mA	
Power Supply Rejection Ratio		>65	dB	>65	dB	

This family	This family also includes:							
Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/q)	Max.Shock (gpk)	Noise Differential (μg rms/vHz)			
7506A1	± 50	0-300	100	5000	50			

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

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Low pass first order filter, corner frequency at 300Hz.
- [2] Glenair P/N 805-006-13Z18-23PA. Mates with 805-001-16Z18-23SA and 805-002-16Z18-23SA
- [3] Over the rated temperature range.
- [4] -90% to +90% of Full Scale.
- [5] When measured with 50 Ohm sense resistor.





