


Model Number 7506A1		PERFORMANCE SPECIFICATIONS				DOC NO PS7506A1	
		VARIABLE CAPACITANCE ACCELEROMETER				REV E, ECN 15741, 04/28/20	
		<ul style="list-style-type: none">• VARIABLE CAPACITANCE ACCELEROMETER• CURRENT OUTPUT• HERMETICALLY SEALED• DC RESPONSE• 4-20 mA LOOP COMPATIBLE					
		ENGLISH		SI			
PHYSICAL							
Weight, Max		2.5	oz	70	grams		
Connector [2]	Type	Receptacle, 3-pin		Receptacle, 3-pin			
Mounting	Thru Holes	2 X Ø.125		2 X Ø.125			
Material		304L		304L			
PERFORMANCE							
Input Range		±50	g	±490	m/s ²		
Frequency Response (-3dB), ± 50Hz [1][5]		0-300	Hz	0-300	Hz		
Sensitivity Differential, ±10%		100	µA/g	10.2	µA/m/s ²		
Output Noise, Differential, Typ		50	µ g rms/v Hz	491	µ m/s ² /v Hz		
Non-Linearity, Max [4]		0.5	% F.S	0.5	% F.S		
Transverse Sensitivity, Max		4	%	4	%		
Scale Factor Calibration Error, Max		2	%	2	%		
Zero Measured Output		±50	mV	±50	mV		
ENVIRONMENTAL							
Maximum Mechanical Shock		5000	gpk	49050	m/s ² peak		
Bias Temperature Shift ,Max [3]		56	(ppm of span)/°F	100	(ppm of span)/°C		
Bias Calibration Error, Max		0.5	% of span	0.5	% of span		
Operating Temperature Range		-55 to +257	°F	-48 to +125	°C		
Scale Factor Temperature 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 Time		<2	ms	<2	ms		
Full Scale Output		±5	mA	±5	mA		
Power Supply Rejection Ratio		>65	dB	>65	dB		
						This family also includes:	
		Model		Input Range (g)		Frequency response (Hz)	
		7506A2		± 400		0-300	
						Sensitivity Differential, ±10% (µA/g)	
						Max.Shock (gpk)	
						Noise Differential (µg rms/vHz)	