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REVISIONS							
RIPTION		BY/DATE	СНК	APPR			
STED HARDW		LA 03/31/15	DV	AS	D		
NOTE 6		JS 03/30/16	LA	AS			
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Model Number 7506A1	r	PERFORMANCE SPECIFICATIONS							DOC NO PS7506A1		
		VARIABLE CAPACITANCE A					IETER				REV C, ECN 13315, 03/01/17
						This family	also includes:	•			
I	•	VARIABLE CAPACITANCE ACCELEROMETER			Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/q)	Max.Shock (gpk)	Noise Differential (µg rms/√Hz)	
7506AX XXXX		• CURRENT OUTP • HERMETICALLY • DC RESPONSE • 4-20 mA LOOP C	SEALED			7506A2	± 400	0-300	13	5000	400
···X						Refer to the performance specifications of the products in this family for detailed description.					
PHYSICAL		ENGLI	SH	SI		Supplied Accessories: 1) Accredited calibration certificate (ISO 17025)					
Weight, Max		2.5	oz	70	grams	,		· · · · ·			
Connector [2]	Туре	Receptacle, 3-pin	1	Receptacle, 3-pin		Notes:					
Mounting	Thru Holes	2 X Ø.125	1	2 X Ø.125	1		s first order filter, co	orner frequency at	300Hz.		
Material		304L	1	304L	1				1 805-001-16Z18-23S	A and 805-002-16Z1	8-23SA
PERFORMANCE			1		J	[3] Over the	rated temperature +90% of Full Scale.				
Input Range		±50	1	±490	m/s ²		easured with 50 Oh	m sense resistor			
Frequency Response (-3d	HR) + 50Hz [1][5]	0-300	g Hz	0-300	Hz		easured with 50 On	111 361136 16313101.			
Sensitivity Differential, ±10		100	μA/g	10.2	μA/m/s ²			088		825	
Output Noise, Differential,		50	μg rms/√ Hz	491	μ m/s ² /V Hz	2X (Ø.125 ^{+.010} THRU	.088 J [2.22]	 -	.825 [20.96]	
Non-Linearity, Max [4]	,	0.5	% F.S	0.5	% F.S]	Ø.125 ^{+.010} THRU 001 THRU 3.18 ^{+0.25} -0.03	\sim			
Transverse Sensitivity, Ma	ax	4	%	4	%	l	0.03	\rightarrow			
Scale Factor Calibration E	Error, Max	2	%	2	%				í1 –		
Zero Measured Output		±50	mV	±50	mV						
ENVIRONMENTAL			_		_			□ 1.00 [25.4]	`P		
Maximum Mechanical Sho	ock	5000	gpk	49050	m/s ² peak			.48			
Bias Temperature Shift ,M	/lax [3]	56	(ppm of span)/°F	100	(ppm of span)/°C			[12.	<u>32</u>] [[]		
Bias Calibration Error, Max	ax	0.5	% of span	0.5	% of span			<u> </u>			
Operating Temperature Ra	Range	-55 to +257	°F	-48 to +125	°C					.	Ī
Scale Factor Temperature	e Shift [3]	-111 to 111	ppm/°F	-200 to 200	ppm/°C						.73 MAX
Seal		Hermetic	J	Hermetic							[18.5 MAX]
ELECTRICAL			-		-				PIN 1		ŧ_
Bias Current		14-15	mA	14-15	mA			Ø.047	SIG/PWR-	MASTER	
Output Impedence,Nom		400	Ω	400	Ω			LOCKWII HOLE			
Operating Voltage		10-36	VDC	10-36	VDC					1	- PIN 2 GND
Operating Voltage Rise Til	ime	<2	ms	<2	ms			t	\sim		SND
Full Scale Output		±5	mA	±5	mA			.70		bom)	
Power Supply Rejection R	Ratio	>65	dB	>65	dB			[17.8]	.40 [10.2]		
									T		N 3 - N/C
						Units on the line	drawing are in inches, dirr	nensions in brackets [] a	are in millimeters. Refer to 12	7-7506A1 for more informa	lion.

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