

2							
REVISIONS							
RIPTION		BY/DATE	СНК	APPR			
D NOTE 6		JS 03/30/16	LA	AS	D		
N FOR CONFIGURATION		LN 02/03/20	EP	DV			
/. E" MARKING		LN 04/28/20	EP	DV			
TRANS OF THE OFFICE OFF							
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E: 2:1 Chatsworth, CA Chatsworth, CA Chatswo							

Model Number 7506A1	r	PERFORMANCE SPECIFICATIONS									DOC NO PS7506A1
		VARIABLE CAPACITANCE A				ACCELEROMETER				REV E, ECN 15741, 04/28/2	
						This family also includes:			1		
• VARIABLE CAPACITANCE				ANCE ACCELEROMETER		Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/g)	Max.Shock (gpk)	Noise Differential (μg rms/vHz)
		<ul> <li>CURRENT OUTP</li> </ul>	-			7506A2	± 400	0-300	13	5000	400
7506A	an	HERMETICALLY	SEALED			-					
7506AX XXXX RexXX	1170	DC RESPONSE				-					
Rev.E		• 4-20 mA LOOP COMPATIBLE			Refer to the performance specifications of the products in this family for detailed description.						
						Supplied Accessories:					
		ENGLISH SI		]							
PHYSICAL			1		Т	1) Accredited	d calibration certifica	ate (ISO 17025)			
Weight, Max	Τ.,	2.5	oz	70 Decemtoria 2 min	grams	Nete					
Connector [2]	Type	Receptacle, 3-pin	4	Receptacle, 3-pin	4	Notes:	first and a filts		2001-		
Mounting Material	Thru Holes	2 X Ø.125 304L	4	2 X Ø.125 304L	+		first order filter, co		300Hz. 1 805-001-16Z18-23S/	A and 805 000 4074	0.0004
Material		304L	1	304L	1		rated temperature r		1005-001-10210-235	A and 605-002-1621	0-235A
PERFORMANCE							90% of Full Scale.	ange.			
Input Range		±50		±490	m/s <sup>2</sup>		asured with 50 Ohr	n sense resistor			
Frequency Response (-3dl	dB) + 50Hz [1][5]	0-300	g Hz	0-300	Hz						
Sensitivity Differential, ±10		100	μA/g	10.2	μA/m/s <sup>2</sup>			.088		.825	
Output Noise, Differential ,		50	μ g rms/v Hz	491	μm/s <sup>2</sup> /v Hz	2X Q	0.125 <sup>+.010</sup> THRU	.088 J [2.22]		[20.96]]	
Non-Linearity, Max [4]	/ )1	0.5	% F.S	0.5	% F.S		3.18 <sup>+0.25</sup>				
Transverse Sensitivity, Ma	ax	4	%	4	%	L	-0.03]	-			
Scale Factor Calibration E	Error, Max	2	%	2	%				, Iíl	111	
Zero Measured Output		±50	mV	±50	mV						
			-		-			<b>1.00</b>			
ENVIRONMENTAL			-		-			[25.4]	₽	- <del>(</del> )-	
Maximum Mechanical Sho	ock	5000	gpk	49050	m/s² peak			.48			
Bias Temperature Shift ,Ma	••	56	(ppm of span)/°F	100	(ppm of span)/°C				<u>32</u> ] [ []		
Bias Calibration Error, Max		0.5	% of span	0.5	% of span			<u> </u>			
Operating Temperature Ra	•	-55 to +257	°F	-48 to +125	°C					1	
Scale Factor Temperature	e Shift [3]	-111 to 111	ppm/°F	-200 to 200	ppm/°C						.73 MAX [18.5 MAX]
Seal		Hermetic	1	Hermetic	1					1	
ELECTRICAL									É		
Bias Current		14-15	mA	14-15	mA			Ø. <mark>04</mark> 7	PIN 1 SIG/PWR	MASTER	
Output Impedence,Nom		400	Ω	400	Ω			Ø.047 LOCKWI HOLE —	RE	KEYWAY	r
Operating Voltage		10-36	VDC	10-36	VDC						-PIN 2
Operating Voltage Rise Tin	ime	<2	ms	<2	ms			4			GND
Full Scale Output		±5	mA	±5	mA			.70		5 and the	
Power Supply Rejection Ra	Ratio	>65	dB	>65	dB			[17.8] 	.40 [10.2]		
									•	PI	N 3 - N/C
						Units on the line	drawing are in inches, di	mensions in brackets [	are in millimeters. Refer to	127-7506A1 for more infor	mation.

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