

Model Numb 7577A6	er	PERFORMANCE SPECIFICATION									DOC NO PS7577A6	
		VARIABLE CAPACITANCE A									REV B, ECN 15261, 08/01/19	
		VARIABLE CAPACITANCE ACCELEROMETER				This family also includes:						
	0.					Model	Input Range (g)	Frequency Response (Hz) (±3dB)	Differential, ±10% (mV/g)	Max.Shock (gpk)	Noise Differential (µg rms/vHz)	
Sn +++++ was nus		• DIFFERENTIAL MODE • HERMETICALLY SEALED • DC RESPONSE • HIGH SHOCK SURVIVAL				7577A1	±2	0-1150	2,000	6000	8	
						7577A2	± 5	0-1900	800	6000	17	
						7577A3	± 10	0-3200	400	6000	34	
						7577A4	± 30	0-4000	133	6000	102	
CALCO.		EXTENDED FREQUENCY RESPONSE				7577A5	± 50	0-4500	80	6000	170	
7						7577A7	± 200	0-7000	20	6000	678	
	-						performance spec	ifications of the pr	oducts in this family f	or detailed description.	•	
						Supplied Accessories: 1) Accredited calibration certificate (ISO 17025)						
		ENGLISH SI										
PHYSICAL			T		1	2) Two mour	nting screws of eac	ch: Model 6688 (N	13.5) and Model 6868	8 (4-40)		
Weight, Max		0.60	oz	17	grams	Notes:						
Connector	Туре	4-Pin, 1/4-28 UNF-2A		4-Pin, 1/4-28 UNF-2A		[1] Single ended sensitivity is half of values shown.						
Mounting	Thru Holes	2 X Ø.127"		2 X Ø3.23mm		[2] Over the	rated temperature	range.				
Material		Titanium Alloy		Titanium Alloy						tt o change specificat		
										vith the properties desc		
PERFORMANCE						specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameter						
nput Range		±100	g	±980.7	m/s ²				by the customer's tec		including typical paramete	
Frequency Response (±5%)		0 - 2600	Hz	0 - 2600	Hz				-,			
Frequency Response (±3dB)		0 - 5000	Hz	0 - 5000	Hz	TYPICAL FREQUENCY RESPONSE						
Resonant Frequency		>8500	Hz	>8500	Hz		10					
Sensitivity Differential, ±10% [1]		40	mV/g	4.1	mV/m/s ²		8 5					
Output Noise, Differential, Typ.		339	µg rms/√ Hz	3326	µ m/s² /√ Hz		5 °					
Non-Linearity, Max.		0.5	% F.S.	0.5	% F.S.	0 0 0 -10						
Transverse Sensitivity, Max.		3	%	3	%		Å -10					
			,.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		₹ -15					
ENVIRONMENTAL							-15 -20 -25 -25					
Maximum Mechanical Shock		6000	gpk	58840	m/s ² peak		ຜູ້ -25					
Operating Temperature Range		-67 to +257	°F	-55 to +125	°C							
Scale Factor Temperature Coefficient [2]		-11 to +122	ppm/°F	-20 to +220	ppm/°C	0 1000 2000 3 Frequency (Hz)		3000 4000	5000			
Seal		Hermetic	pp, .	Hermetic	ppin, e			1.0	• • • •			
		Hermotio	l	Hormotio	1			- 1.0 [25.	4]	.31		
ELECTRICAL									825 [21]	.31 [7.9]		
Output Common Mode Voltage		2.45 - 2.65	VDC	2.45 - 2.65	VDC				[21]			
Bias Calibration Error		0.333	g	0.034	m/s ²		•					
Output Impedance, Nom.		1	Ω	1	Ω							
Operating Voltage		+6 to +14	VDC	+6 to +14	VDC		1.00 [25.4]					
Operating Current (AOP & AON open)		3 to 6	mA DC	3 to 6	mA DC					1/4-28 4 PIN CO	ONNECTOR	
Power Supply Rejection Ratio		>65	dB	>65	dB							
Ground Isolation			MΩ	>30	MΩ					2X Ø.127 THRU		
Warm Up Time	Varm Up Time		sec	<0.5	sec		.5			[3.23]		
Overload Recovery		<0.5 <200	µsec	<200	µsec)			
]			000		
							.3 [8]	3 4]				
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Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7577A for more information.



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