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REVISIONS			
RIPTION	BY/DATE	СНК	APPR
AS: .24	JS 03/12/09	RA	DV
N USA" MARKING	JS 04/27/12	LN	DV
G SCREW DYTRAN (2 PROVIDED)	RA, 02/08/13	LN	DV
& 2X 6688 M3 SCREW	EC 08/08/14	JS	EP
D ZONE B4 DRAWING RENCE	LA 12/02/16	RA	LN
DED: .22 [5.6], .44 [11.2] & .15 [3.8]	LA 02/20/17	RA	LN

Ο.	REV	ECN	DATE	RANGE
	G	13283	02/20/17	2g
	G	13283	02/20/17	5g
	G	13283	02/20/17	10g
	G	13283	02/20/17	25g
	G	13283	02/20/17	50g
	G	13283	02/20/17	100g
	G	13283	02/20/17	200g
	G	13283	02/20/17	400g

Model Number 7500A8			PE	RFORMANCE S	PECIFICAT						DOC NO PS7500A8
		VARIABLE CAPACITANCE ACCELEROMETER								REV J, ECN 15283, 08/16/1	
						This family	also includes:				•
								Frequency	Sensitivity		
		VARIABLE CAPACI		DOMETED		Madal	Innut Dongo (g)	Response,	Differential, ±10% (mV/g)	May Cheek (mk)	Noise Differential
• ?	TRAN	OIFFERENTIAL MO		ROWETER		Model	Input Range (g)	±3dB (Hz)		Max.Shock (gpk)	(μg rms/vHz)
SN +++	22+ AN					7500A1	± 2	0-400	1,000	2000	7
	+	HERMETICALLY SE	EALED			7500A2	± 5	0-500	400	2000	12
40		• DC RESPONSE			7500A3	± 10	0-1000	200	5000	18	
A Start					7500A4	± 25	0-1400	80	5000	25	
					7500A5	± 50	0-2000	40	5000	50	
						7500A6	± 100	0-2500	20	5000	100
				7500A7	± 200	0-3000	10	5000	200		
						Refer to the	performance specif	ications of the p	roducts in this family fo	or detailed description.	
		ENGLISI	1	SI							
HYSICAL		0.46	07	13	arama	Supplied Ac		ate (ISO 17005)			
Veight, Max	Turne	4-PIN, 1/4-28 UNF-2A	oz		grams	,	d calibration certific	,	4 40 X EQ)		
Connector	Туре			4-PIN, 1/4-28 UNF-2A		,	nting screws model		,		
lounting	Thru Holes	2 X Ø.13		2 X Ø.13		3) Two mour	nting screws model	# 6688 (SHCS,	M3 X 0.5 MM)		
laterial		Titanium Alloy	L.	Titanium Alloy							
						Notes:					
ERFORMANCE						[1] Single en	ded sensitivity is ha	alf of values show	wn.		
put Range		±400	g	±3924	m/s ²	[2] Over the	rated temperature r	ange.			
requency Response (±5%)		0 - 1600	Hz	0 - 1600	Hz	[3] -90% to +	-90% of Full Scale.				
requency Response (±10%)	0 - 2000	Hz	0 - 2000	Hz	[4] In the inte	erest of constant pro	oduct improveme	ent, we reserve the rig	ht to change specificat	ions without notice.
requency Response (±3dB		0 - 4000	Hz	0 - 4000	Hz					ith the properties desc	
Resonanat Frequency		>6000	Hz	>6000	Hz						and / or specifications r
Sensitivity Differential, ±10%	[1]	5	mV/g	0.5	mV/m/s ²				by the customer's tec		including typical parame
Dutput Noise, Differential, Ty		400	µg rms/√ Hz	3,924	µ m/s² /√ Hz	must be vali	uated for each cust	oniei application	by the customer's tec	annical expens.	
Ion-Linearity, Max. [3]	F.	0.5	% Span	0.5	% Span						
ransverse Sensitivity, Max.		3	%	3	%		L	1.0	00	.31	
Scale Factor Calibration Error, Max. 1 % 1			%	1.00 .31 [25.4] [7.9]							
	.,	1	70		70				3 1		
NVIRONMENTAL								[2	1]		
aximum Mechanical Shock		5000	gpk	49050	m/s² peak		1				
Bias Temperature Shift, Max	. [2]	111	(ppm of span)/°F	200	(ppm of span)/°C			(I) [Th	inin i	
Bias Calibration Error		0.5	% of span	0.5	% of span					9997 ·	
Operating Temperature Ran	ne	-67 to +257	°F	-55 to +125	°C			U		alado	
Scale Factor Temperature S	•	-111 to +111	ppm/°F	-200 to +200	ppm/°C		1.00	ф	L AI		
Seal	[-]	Hermetic		Hermetic	FF		[25.4]	Ð		2XØ.13 THR	
			L	J			.49	ſ)	[3.3]	
LECTRICAL							[12.3]				
Output Common Mode Volta	ge, Typ.	2.45	VDC	2.45	VDC		† † (]		
output Impedance, Nom.		1	Ω	1	Ω						
perating Voltage		+9 to +32	VDC	+9 to +32	VDC						
Operating Current (AOP & A		<12	mA DC	<12	mA DC		1				
Power Supply Rejection Ration	0	>65	dB	>65	dB)Th	1260	
Ground Isolation		>30	MΩ	>30	MΩ		.33			MIN	
							[8.4]		Ш		
							1				
						1	т				

Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7500A for more information.



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