



Model Number 7613A6-XX PERFORMANCE SPECIFICATION PS7613A6-XX TRIAXIAL VARIABLE CAPACITANCE ACCELEROMETER REV B. ECN 14672, 11/30/18



- VARIABLE CAPACITANCE TECHNOLOGY
- DIFFERENTIAL MODE
- HERMETICALLY SEALED
- DC RESPONSE

		ENGLISH		SI	
PHYSICAL					<u></u>
Weight, Max (Less Cable)		1.6	oz	45	grams
Integral Cable [1]		Flying leads		Flying leads	
Material		Titanium Alloy		Titanium Alloy	
Sensing Technology		MEMS		MEMS	
PERFORMANCE					
Input Range		±100	g	±981	m/s ²
Frequency Response,	(±5%)	0 - 1300	Hz	0 - 1300	Hz
	(±3dB)	0 - 2500	Hz	0 - 2500	Hz
Resonant Frequency		>3000	Hz	>3000	Hz
Sensitivity Differential, ±5%	[2]	5	mV/g	0.5	mV/m/s ²
Output Noise, Differential ,7	- ур	100	μg rms/√ Hz	981	μm/s² /√ Hz
Non-Linearity, Max [3]		0.5	% F.S	0.5	% F.S
Cross Axis Sensitivity, Max		3	%	3	%
ENVIRONMENTAL					
Maximum Mechanical Shoo	k (0.1 ms)	±5000	gpk	±49050	m/s² peak
Bias Temperature Shift ,Max [4]		111	(ppm of span)/°F	200	(ppm of span)/°C
Bias Calibration Error, Max		4	% of span	4	% of span
Operating Temperature Range		-67 to +257	°F	-55 to +125	°C
Seal		Hermetic		Hermetic	\Box
ELECTRICAL					
Output Common Mode Volt	age, Typ	2.5	VDC	2.5	VDC
Output Impedance,Nom		1225	Ω	1225	Ω
Operating Voltage		±3 to ±11	VDC	±3 to ±11	VDC
Operating Current, Max. (Each Axis)		13	mA DC	13	mA DC
Power Supply Rejection Ratio		>65	dB	>65	dB

This family also includes:								
Model	Input Range (g)	Frequency Response (Hz) +/-3dB	Sensitivity Differential, ±5% (mV/g)	Max.Shock (0.1ms)	Noise Differential (μg/vHz)			
7613A1-XX	±2	0-400	250	2000	7			
7613A2-XX	±5	0-500	100	2000	12			
7613A3-XX	±10	0-1000	50	5000	18			
7613A4-XX	±25	0-1400	20	5000	25			
7613A5-XX	±50	0-2000	10	5000	50			
7613A7-XX	±200	0-3000	2.5	5000	200			
7613A8-XX	±400	0-4000	1.25	5000	400			

Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud, Model 6360, 1/4-28 UNF-2A, Qty 1
- 3) Mounting stud, Model 6691, 1/4-28 UNF-2A to M6 X 1, Qty 1
- 4) Mounting screws, Model 69034A16, 8-32 x 1.0, Qty. 2
- 5) Mounting screws, Model 6687A1, M4x0.7 x 25mm, Qty. 2
- 6) Flat washers, Model 6754, Qty. 2

Notes:

- [1] 12-conductor, 26AWG, White FEP Jacket
- [2] Single ended sensitivity is half of values shown. (Ref. at 100 Hz)
- [3] -90% to +90% of Full Scale.
- [4] Over the rated temperature range.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.



