

Model Number DOC NO PERFORMANCE SPECIFICATION 7604A1 PS7604A1 VARIABLE CAPACITANCE ACCELEROMETER REV G, ECN 15839, 08/07/20



	HERMETICALLY SEALED DC RESPONSE INTEGRAL CABLE ENVIRONMENTAL BOOT				
L PHYSICAL	ENGLISH		SI		
Weight, Max (less cable)	0.1	oz	3.6	grams	
Integral Cable	Flying Leads	┦ " ├	Flying Leads	grame	
Material	Titanium Alloy		Titanium Alloy		
PERFORMANCE				•	
Input Range	±5	g pk	±49	m/s ² pk	
Frequency Response (±3dB)	0-400	Hz	0-400	Hz	
Resonant Frequency	3.5	kHz	3.5	kHz	
Sensitivity Differential, ±5% [1]	100	mV/g	10.2	mV/m/s ²	
Output Noise, Differential ,Typ	12	μg RMS/√ Hz	118	μ m/s² RMS/√ H	
Non-Linearity, Max [2]	0.5	% F.S	0.5	% F.S	
Sensitivity Change with Excitation Voltage (6-22 Volts)	0.3	%	0.3	%	
Cross Axis Sensitivity	< 3	%	< 3	%	
Zero Measurand Output	±50	mV	±50	mV	
ENVIRONMENTAL					
Maximum Mechanical Shock (0.1 ms)	2000	g pk	19620	m/s ² pk	
Bias Temperature Shift ,Max [3]	111	(ppm of span)/°F	200	(ppm of span)/°	
Sensitivity Temperature Shift	277	ppm/°F	500	ppm/°C	
Operating Temperature Range	-40 to +248	°F	-40 to +120	°C	
Seal	Hermetic		Hermetic		
ELECTRICAL					
Output Common Mode Voltage ± VDC	[4]		[4]		
Output Impedance,Nom	1225	Ω	1225	Ω	
Operating Voltage [6]	±3 to ±11	VDC	±3 to ±11	VDC	
Operating Current, Max	13	mA DC	13	mA DC	
Change in Operating Current to Excitation Voltage	0.25	mA/V	0.25	mA/V	
Electrical Isolation (Case)	>100	ΜΩ	>100	ΜΩ	

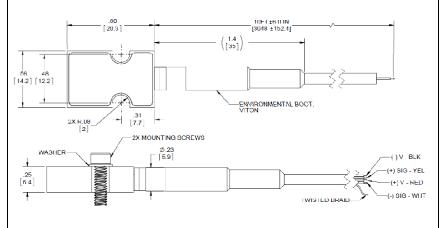
This family also includes:								
Model	Input Range (g pk)	Frequency response (Hz)	Sensitivity Differential, ±5% (mV/q)	Max.Shock (0.1ms) (g pk)	Noise Differential (μg RMS/√Hz)			
7604A2	±10	0-600	50	5000	18			
7604A3	±25	0-900	20	5000	25			
7604A4	±50	0-1200	10	5000	50			
7604A5	±100	0-1400	5	5000	100			
7604A6	±200	0-1750	2.5	5000	200			

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

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screws, model 6746, 4-40, Qty. 2
- 3) Mounting screws, model # 6688, M3x0.5, Qty. 2
- 4) Mounting washers model # 6743, Qty. 4

- [1] Single ended sensitivity is half of values shown
- [2] -90% to +90% of Full Scale
- [3] Over the rated temperature range
- [4] Bias voltage equal to (+ V (-V)) / 2)
- [5] In the interest of constant product imrpovement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product 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 over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.
- [6] +6.0 to +22.0 VDC in single supply operation with V- grounded.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-7604A for more information.

