
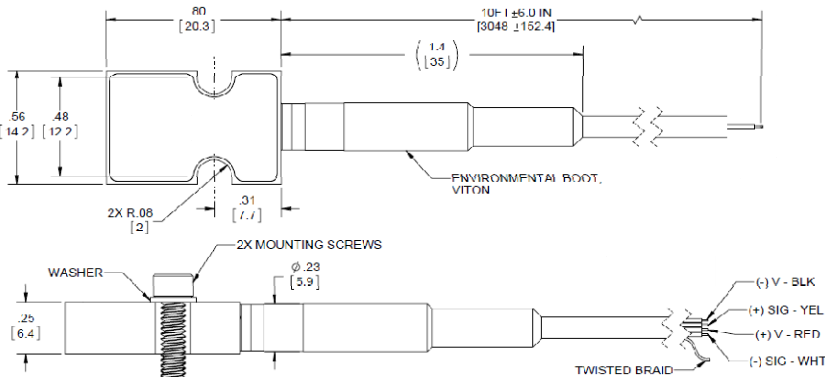



Model Number 7604A5	PERFORMANCE SPECIFICATION				DOC NO PS7604A5
	VARIABLE CAPACITANCE ACCELEROMETER				REV G, ECN 15839, 08/07/20
	<ul style="list-style-type: none"><li>• POWER SUPPLY IDENTICAL TO STRAIN GAGE SENSORS</li><li>• VARIABLE CAPACITANCE ACCELEROMETER</li><li>• DIFFERENTIAL MODE</li><li>• HERMETICALLY SEALED</li><li>• DC RESPONSE</li><li>• INTEGRAL CABLE</li><li>• ENVIRONMENTAL BOOT</li></ul>				
	ENGLISH		SI		
PHYSICAL					
Weight, Max (less cable)	0.1	oz	3.6	grams	
Integral Cable	Flying Leads		Flying Leads		
Material	Titanium Alloy		Titanium Alloy		
PERFORMANCE					
Input Range	±100	g pk	±981	m/s <sup>2</sup> pk	
Frequency Response (±3dB)	0-1400	Hz	0-1400	Hz	
Resonant Frequency	3.5	kHz	3.5	kHz	
Sensitivity Differential, ±5% [1]	5	mV/g	0.5	mV/m/s <sup>2</sup>	
Output Noise, Differential ,Typ	100	µg RMS/√ Hz	981	µ m/s <sup>2</sup> RMS/√ Hz	
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)	5000	g pk	49050	m/s <sup>2</sup> pk	
Bias Temperature Shift ,Max [3]	111	(ppm of span)/°F	200	(ppm of span)/°C	
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	MΩ	>100	MΩ	
<b>This family also includes:</b>					
Model	Input Range (g pk)	Frequency response (Hz)	Sensitivity Differential, ±5% (mV/g)	Max.Shock (0.1ms) (g pk)	Noise Differential (µg RMS/√Hz)
7604A1	±5	0-400	100	2000	12
7604A2	±10	0-600	50	5000	18
7604A3	±25	0-900	20	5000	25
7604A4	±50	0-1200	10	5000	50
7604A6	±200	0-1750	2.5	5000	200
Refer to the performance specifications of the products in this family for detailed description					
<b>Supplied Accessories:</b>					
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					
<b>Notes:</b>					
[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 improvement, 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.					



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