


Model Number 7600B1	PERFORMANCE SPECIFICATION				DOC NO PS7600B1
	VARIABLE CAPACITANCE ACCELEROMETER				REV M, ECN 15839, 08/07/20



- POWER SUPPLY IDENTICAL TO STRAIN GAGE SENSORS
- VARIABLE CAPACITANCE ACCELEROMETER
- DIFFERENTIAL MODE
- HERMETICALLY SEALED
- DC RESPONSE

	ENGLISH		SI	
PHYSICAL				
Weight, Max	0.1	oz	3.6	grams
Size	.80 x .56 x .23	Inches	20.3 x 14.2 x 5.8	mm
Connector	4-PIN, M4.5 x 0.35 THD		4-PIN, M4.5 x 0.35 THD	
Mounting	4-40 X 7/16 LG SHCS		4-40 X 7/16 LG SHCS	
Material	Ti-6Al-4V		Ti-6Al-4V	
PERFORMANCE				
Input Range	±5	g pk	±49	m/s ² pk
Frequency Response (±3dB)	0-400	Hz	0-400	Hz
Resonant Frequency	>3000	Hz	>3000	Hz
Sensitivity Differential, ±5% [1]	100	mV/g	10.2	mV/m/s ²
Output Noise, Differential ,Typ	12	µg RMS/√ Hz	118	µ m/s ² 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)	2000	g pk	±19620	m/s ² 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 [7]	±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

This family also includes:

Model	Input Range (g pk)	Frequency response (Hz)	Sensitivity Differential, ±5% (mV/g)	Max.Shock (0.1ms)	Noise Differential (µg RMS/√Hz)
7600B2	±10	0-600	50	5000	18
7600B3	±25	0-900	20	5000	25
7600B4	±50	0-1200	10	5000	50
7600B5	±100	0-1400	5	5000	100
7600B6	±200	0-1750	2.5	5000	200

Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Two mounting screws model # 6746
- 3) Two mounting washers model # 6743

Notes:

- [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] Mating cable 6895A
- [6] 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.

- [7] +6.0 to +22.0 VDC in single supply operation with V- grounded.

Units on the line drawing are in inches. Refer to 127-7600B for more information.