

Model Number

SEN027**TRIAxIAL ICP® SEATPAD ACCELEROMETER (ISO10326-1)**

Revision: A

356B41

DYNAMIC PERFORMANCE

Voltage Sensitivity	100 [10,2]	mV/g [mV/ms ⁻²]	(±10%)
Measurement Range (±5%)	10 [98]	±g pk [±ms ⁻² pk]	
Frequency Range (±5%)	0.5 to 1000	Hz	
Resonant Frequency	≥ 27	kHz	
Broadband Resolution (1Hz to 10kHz)	0.0002 [0,002]	g rms [ms ⁻² rms]	[1]
Amplitude Linearity (400 g)	≤ ±1	%	[2]
Transverse Sensitivity	≤ 5	%	

ENVIRONMENTAL

Shock Limit - All Axes (maximum)	2 000 [19 620]	±g pk [±ms ⁻² pk]	
Operating Temperature Range	+14 to 122 [-10 to 50]	°F [°C]	
Temperature Response	< 0.10	%/°F [%/°C]	[1]

ELECTRICAL

Excitation Voltage/Constant Current	6.5 to 30 / 0.3 to 10	VDC/mA	
Output Impedance	< 500	ohms	
Output Bias	2.8 to 4.5	VDC	
Discharge Time Constant	1.0 to 3.0	sec	
Warm Up Time (within 10% of output bias)	< 20	sec	
Spectral Noise (1 Hz)	50 [490]	μg/√Hz [(μms ⁻²)/√Hz]	[1]
(10 Hz)	10 [98]	μg/√Hz [(μms ⁻²)/√Hz]	[1]
(100 Hz)	4 [39]	μg/√Hz [(μms ⁻²)/√Hz]	[1]
(1 kHz)	2 [20]	μg/√Hz [(μms ⁻²)/√Hz]	[1]

MECHANICAL

Sensing Element	Ceramic/Shear	material/geometry	
Housing	Titanium/Hermetic	material/sealing	
Size (Diameter x width)	7.87 x 0.472 [200 x 12]	in [mm]	
Weight	9.6 [272]	oz [gm]	[1]
Electrical Connector	Integral cable/Side	type/location	
Cable Termination	1/4-28 4-Pin Jack		
Cable Length	5 [1,5]	ft [m]	
Cable Type	010 4-cond shielded		
Mounting Thread	10-32 Female		

**NOTES:**

- [1] Typical
 [2] Zero-based, least-squares, straight line method
 [3] See PCB Declaration of Conformance PS023 for details

SUPPLIED ACCESSORIES:

NIST Traceable Calibration Certificate



All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without notice.

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