

Model Number

**SEN041F**

**TRIAxIAL SHEAR ICP® ACCELEROMETER**

Revision: A

**DYNAMIC PERFORMANCE**

Voltage Sensitivity	10 [1,02]	mV/g [mV/ms <sup>-2</sup> ]	(±10%)
Measurement Range (±5%)	500 [4 900]	±g pk [±ms <sup>-2</sup> pk]	
Frequency Range (±5%)	2 to 4 000	Hz	
Mounted Resonant Frequency	≥ 55	kHz	
Electrical Filter Corner Frequency	15	kHz	[1]
Electrical Filter Roll-off	6 dB/Octave		[1]
Broadband Resolution (1Hz to 10kHz)	0.008 [0,08]	g rms [ms <sup>-2</sup> rms]	[1]
Amplitude Linearity	≤ ±1	%	[2]
Transverse Sensitivity	≤ 5	%	

**ENVIRONMENTAL**

Shock Limit - All Axes (maximum)	10000 [98 100]	±g pk [±ms <sup>-2</sup> pk]
Operating Temperature Range	-65 to +250 [-54 to +121]	°F [°C]
Temperature Response	See Graph	%/°F [%/°C]

**ELECTRICAL**

Excitation Voltage/Constant Current	18 to 30 / 2 to 20	VDC/mA	
Output Impedance	< 200	ohm	
Output Bias	7 to 11	VDC	
Discharge Time Constant	0.3 to 1.0	sec	
Warm Up Time (within 10% of output bias)	<3	sec	
Spectral Noise	(1 Hz) 445 [4 365]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]
	(10 Hz) 135 [1 325]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]
	(100 Hz) 90 [883]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]
	(1 kHz) 80 [785]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]

**MECHANICAL**

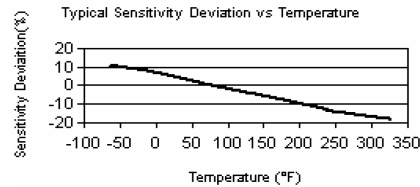
Sensing Element	Ceramic/Shear	material/geometry	
Housing	Titanium/Hermetic	material/sealing	
Size (H x L x W)	0.40x0.77x0.40 (10,2x19,6x10,2)	in [mm]	
Weight	0.19 [5,3]	oz [gm]	[1]
Electrical Connector	1/4-28 4-pin Side	type/location	
Mounting Thread	5-40 Female	size	
Mounting Torque	4 to 5 [45 to 56]	in-lb [N-cm]	

**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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