

Model Number

**SEN026**

**TRIAxIAL SHEAR ICP® ACCELEROMETER**

Revision: A

**DYNAMIC PERFORMANCE**

Voltage Sensitivity	10 [1,02]	mV/g [mV/ms <sup>-2</sup> ]	(±15%)
Measurement Range (±5%)	500 [4 900]	±g pk [±ms <sup>-2</sup> pk]	
Frequency Range (±5%)	1 to 9,000	Hz	
(±10%)	0.5 to 12,000	Hz	
Mounted Resonant Frequency	≥25	kHz	
Broadband Resolution (1Hz to 10kHz)	0.002 [0.02]	g rms [ms <sup>-2</sup> rms]	[1]
Amplitude Linearity	≤±1	%	[2]
Transverse Sensitivity	≤5	%	[3]

**ENVIRONMENTAL**

Shock Limit - All Axes (maximum)	10 000 [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]	[1]

**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	1.0 to 3.5	sec	
Warm Up Time (within 10% of output bias)	<10	sec	
Spectral Noise (1 Hz)	600 [5 886]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]
(10 Hz)	225 [2 207]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]
(100 Hz)	20 [196]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]
(1 kHz)	10 [98.1]	µg/√Hz [(µms <sup>-2</sup> )/√Hz]	[1]

**MECHANICAL**

Sensing Element	Ceramic/Shear	material/geometry	
Housing	Titanium/Hermetic	material/sealing	
Size (sq x ht)	0.47x0.28 [12.0x7.0]	in [mm]	
Weight	0.11 [3.1]	oz [gm]	[1]
Electrical Connector	4-Pin/Side	type/location	
Mounting Thread	10-32 Female	size	

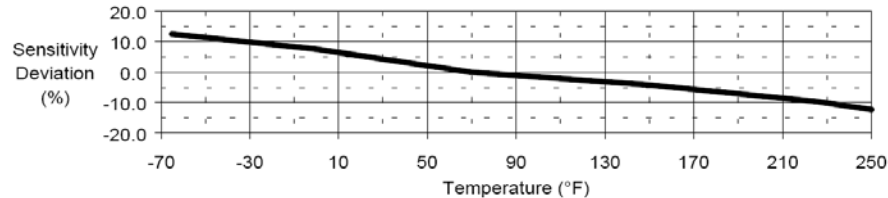


**NOTES:**

- [1] Typical
- [2] Zero-based, least-squares, straight line method
- [3] Transverse sensitivity is typically ≤3%
- [4] See PCB Declaration of Conformance PS023 for details

**SUPPLIED ACCESSORIES:**

NIST Traceable Calibration Certificate



[4]

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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