

Model Number

**SEN025**

**SHEAR ICP® ACCELEROMETER**

Revision: A

352C68

**DYNAMIC PERFORMANCE**

Voltage Sensitivity	100 [10,2]	mV/g [mV/ms <sup>-2</sup> ]	(±10%)
Measurement Range (±5%)	50 [491]	±g pk [±ms <sup>-2</sup> pk]	
Frequency Range (±5%)	0.5 - 10 000	Hz	
(±10%)	0.3 - 12 000	Hz	
Mounted Resonant Frequency	≥ 35	kHz	
Broadband Resolution (1Hz to 10kHz)	0.00016 [0,0015]	g rms [ms <sup>-2</sup> rms]	[1]
Amplitude Linearity	≤ ±1	%	[2]
Transverse Sensitivity	≤ 5	%	[3]

**ENVIRONMENTAL**

Shock Limit - All Axes (maximum)	5 000 [49 050]	±g pk [±ms <sup>-2</sup> pk]	
Operating Temperature Range	-65 to +200 [-54 to +93]	°F [°C]	
Temperature Response	See Graph	%/°F [%/°C]	[1]
Strain Sensitivity	0.005 [0,05]	g/με [(ms <sup>-2</sup> )/μΕ]	[1]

**ELECTRICAL**

Excitation Voltage/Constant Current	18 to 30 / 2 to 20	VDC/mA	
Output Impedance	< 300	ohms	
Output Bias	8 to 12	VDC	
Discharge Time Constant	0.8 to 2.4	sec	
Warm Up Time (within 10% of output bias)	< 10	sec	
Spectral Noise (1 Hz)	60 [588]	μg/√Hz [(μms <sup>-2</sup> )/√Hz]	[1]
(10 Hz)	16 [157]	μg/√Hz [(μms <sup>-2</sup> )/√Hz]	[1]
(100 Hz)	5 [49]	μg/√Hz [(μms <sup>-2</sup> )/√Hz]	[1]
(1 kHz)	1.5 [14,7]	μg/√Hz [(μms <sup>-2</sup> )/√Hz]	[1]

**MECHANICAL**

Sensing Element	Ceramic/Shear	material/geometry	
Housing	Titanium/Welded Hermetic	material/sealing	
Size (hex x height)	0.28 x 0.73 [7,1 x 18,5]	in [mm]	
Weight	0.070 [2,0]	oz [gm]	[1]
Electrical Connector	10-32 Coaxial/Top	type/location	
Mounting Thread	5-40 Male	size	
Mounting Torque	8-12 [90-135]	in-lb [N-cm]	

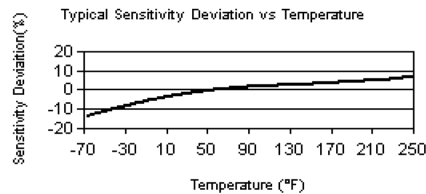


**NOTES:**

- [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
- 080A15 Adhesive Mounting Base



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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