Model Number

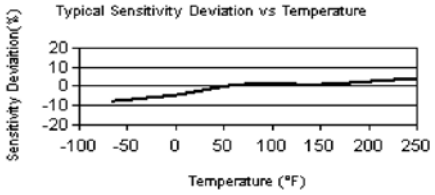
SEN040F

TRIAXIAL SHEAR ICP® ACCELEROMETER

Revision: A

DYNAMIC PERFORMANCE				
Voltage Sensitivity		1 [0,1]	mV/g [mV/ms^{-2}]	(±20%)
Measurement Range (±5%)		5 000 [49 050]	±g pk [±ms^{-2} pk]	
Frequency Range (±5%)		2 to 4 000	Hz	
Mounted Resonant Frequency		≥ 55	kHz	
Electrical Filter Corner Frequency		20	kHz	[1]
Electrical Filter Roll-off		6 dB/Octave		[1]
Broadband Resolution (1Hz to 10kHz)		0.03 [0,29]	g rms [ms^{-2} rms]	[1]
Amplitude Linearity		≤±2.5	%	[2]
Transverse Sensitivity		≤5	%	
ENVIRONMENTAL				
Shock Limit - All Axes (maximum)		10000 [98 100]	±g pk [±ms^{-2} pk]	
Operating Temperature Range		-65 to +250 [-54 to +121]	°F [°C]	
Temperature Response		See Graph	%/°F [%/°C]	
ELECTRICAL				
Excitation Voltange/Constant Current		18 to 30 / 2 to 20	VDC/mA	
Output Impedance		<200	ohm	
Output Bias		7 to 11	VDC	
Discharge Time Constant		1.5 to 3.0	sec	
Warm Up Time (within 10% of output bias)		<10	sec	
Spectral Noise	(1 Hz)	9 000 [88 290]	µg/√Hz [(µms^{-2})/√Hz]	[1]
	(10 Hz)	2 500 [24 525]	µg/√Hz [(µms^{-2})/√Hz]	[1]
	(100 Hz)	800 [7 848]	µg/√Hz [(µms^{-2})/√Hz]	[1]
	(1 kHz)	250 [2 453]	µg/√Hz [(µms^{-2})/√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]	

CE [3]



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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