

Model Number
SEN041F

TRIAxIAL ICP® ACCELEROMETER

Revision: C

Performance

Voltage Sensitivity ($\pm 15\%$)
Measurement Range
Frequency Range (-5%)
Resonant Frequency
Electrical Filter Roll-off
Electrical Filter Corner Frequency
Broadband Resolution (1 to 10000 Hz)
Non-Linearity
Transverse Sensitivity

ENGLISH

10 mV/g
 ± 500 g pk
2 to 4000 Hz
 ≥ 55 kHz
6 dB/octave
15 kHz
0.008 g rms
 $\leq 1\%$
 $\leq 5\%$

SI

1.02 mV/(m/s²)
 ± 4905 m/s² pk
2 to 4000 Hz
 ≥ 5 kHz
6 dB/octave
15 kHz
0.08 m/s² rms
 $\leq 1\%$
 $\leq 5\%$

Notes

[1]
[1]
[1]
[2]

Environmental

Overload Limit (Shock)
Temperature Range (Operating)
Temperature Response

± 10000 g pk
-65 to +250 °F
See Graph

± 98100 m/s² pk
-54 to +121 °C
See Graph

Electrical

Excitation Voltage
Constant Current Excitation
Output Impedance
Output Bias Voltage
Discharge Time Constant
Settling Time (within 10% of bias)
Spectral Noise (1 Hz)
Spectral Noise (10 Hz)
Spectral Noise (100 Hz)
Spectral Noise (1 kHz)

18 to 30 VDC
2 to 20 mA
 ≤ 200 Ohms
7 to 12 VDC
0.3 to 1.0 s
< 3 s
445 μ g/ $\sqrt{\text{Hz}}$
135 μ g/ $\sqrt{\text{Hz}}$
90 μ g/ $\sqrt{\text{Hz}}$
80 μ g/ $\sqrt{\text{Hz}}$

18 to 30 VDC
2 to 20 mA
 ≤ 200 Ohms
7 to 12 VDC
0.3 to 1.0 s
< 3 s
4365 ($\mu\text{m/s}^2$)/ $\sqrt{\text{Hz}}$
1325 ($\mu\text{m/s}^2$)/ $\sqrt{\text{Hz}}$
883 ($\mu\text{m/s}^2$)/ $\sqrt{\text{Hz}}$
785 ($\mu\text{m/s}^2$)/ $\sqrt{\text{Hz}}$

[1]
[1]
[1]
[1]

Physical

Sensing Element
Sensing Geometry
Housing Material
Sealing
Size (Height x Length x Width)
Weight
Electrical Connector
Electrical Connector Position
Mounting Thread

Ceramic
Shear
Titanium
Hermetic
0.40 x 0.77 x 0.40 in
0.19 oz
¼-28 4-Pin
Side
5-40 Female

Ceramic
Shear
Titanium
Hermetic
10.2 x 19.6 x 10.2 mm
5.3 gm
¼-28 4-Pin
Side
5-40 Female

[1]

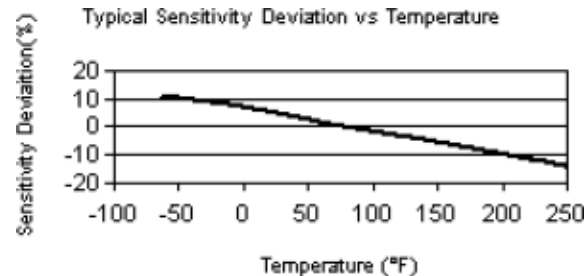


Notes

[1] Typical
[2] Zero-based, least-square, straight line method

Supplied Accessories

NIST Traceable Calibration Certificate
Model 081A90 Mounting Stud, 10-32 to 5-40 (1)



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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