

SENOFEE

ITEM NO: QFAA



Quartz Flexible Accelerometer

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General Description

QFAA series quartz flexible accelerometer is a high-precision military inertial navigation accelerometer. The product has excellent long-term stability, repeatability, start-up performance, environmental adaptability and high reliability. It can be used for static testing or dynamic testing. It is also a standard vibration sensor.

Technique Data

number	Parameter	QFA-01	QFA-02	QFA-03
1	Range	±50g	±50g	±50g
2	Threshold	5μg	5μg	5μg
3	Offset K0(@25°C)	≤±3 mg	≤±3 mg	≤±5 mg
4	Scale factor K1	1.05~1.30 mA/g	1.05~1.30 mA/g	1.05~1.30 mA/g
5	Second-order nonlinear coefficient K2	≤±10μg /g ²	≤±15μg /g ²	≤±20μg /g ²
6	0g 4-hour short-term stability	≤10 μg	≤15 μg	≤20 μg
7	1g 4 hours short-term stability	≤10 Ppm	≤15 Ppm	≤20 Ppm
8	Overall repeatability of bias σK0 (1σ, 1 month)	≤10 μg	≤20 μg	≤30 μg
9	Comprehensive repeatability of scale factor σK1/K1 (1σ, 1 month)	≤15Ppm	≤30Ppm	≤50Ppm
10	Comprehensive repeatability of nonlinear coefficient K2/K1 (1σ, 1 month)	≤±10 μg /g ²	≤±20 μg /g ²	≤±30 μg /g ²
11	Temperature coefficient of deviation (all temperature average)	≤±10 μg /°C	≤±30 μg /°C	≤±50 μg /°C
12	Scale factor temperature coefficient (full temperature average)	≤±10 Ppm /°C	≤±30 Ppm /°C	≤±50 Ppm /°C

13	Noise (sampling resistance is 840Ω)	≤5mv	≤8.4mv	≤8.4mv
14	Natural frequency	400~800 Hz	400~800 Hz	400~800 Hz
15	Bandwidth	800~2500 Hz	800~2500 Hz	800~2500 Hz
16	Random vibration	6g(20-2000Hz)	6g(20-2000Hz)	6g(20-2000Hz)
17	Impact	100g, 5ms, 1/2sin	100g, 5ms, 1/2sin	100g, 5ms, 1/2sin
18	Operating temperature range	-55~+85℃	-55~+85℃	-55~+85℃
19	Storage temperature range	-60~+120℃	-60~+120℃	-60~+120℃
20	Power supply	±12~±15V	±12~±15V	±12~±15V
21	Current consumption	≤±20mA	≤±20mA	≤±20mA
22	User can be customized			

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