

# SENOFEE

ITEM NO: QFAE



## Quartz Flexible Accelerometer

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## General Description

QFAE series this product is a high-temperature and seismic-resistant accelerometer. the product has excellent repeatability, start-up performance, high-temperature and seismic performance, and high reliability. It can be used for static testing or dynamic testing. It is a standard Vibration sensor.

## Technique Data

number	Parameter	QFAE-01	QFAE-02	QFAE-03
1	Range	±30g	±30g	±30g
2	Offset K0(@25°C)	≤10 mg	≤40 mg	≤40 mg
3	Comprehensive repeatability of bias month $\sigma K0$ (1 $\sigma$ , 1 month)	< 50 $\mu$ g	< 250 $\mu$ g	< 250 $\mu$ g
4	Scale factor K1	1.1±1.4 mA/g	1.1±1.4 mA/g	1.1±1.4 mA/g
5	Partial temperature coefficient	<50 $\mu$ g/°C	< 150 $\mu$ g/°C	< 150 $\mu$ g/°C
6	Comprehensive repeatability of scale factor $\sigma K1/K1$ (1 $\sigma$ , 1 month)	<80 Ppm	< 250 Ppm	< 250 Ppm
7	Temperature coefficient of deviation (all temperature average)	<100Ppm/°C	< 200Ppm/°C	< 200Ppm/°C
8	Installation deviation	<1500 $\mu$ rad	< 1500 $\mu$ rad	< 1500 $\mu$ rad
9	Vibration	< 100 $\mu$ g/g <sup>2</sup> rms (50-500Hz)	< 100 $\mu$ g/g <sup>2</sup> rms (50-500Hz)	< 100 $\mu$ g/g <sup>2</sup> rms (50-500Hz)
10	Noise	< 3000 $\mu$ g-rms (0-10000Hz)	< 3000 $\mu$ g-rms (0-10000Hz)	< 3000 $\mu$ g-rms (0-10000Hz)
11	range of working temperature	-55 ~ 96°C	-55 ~ 125°C	-55 ~ 180°C
12	Shock	500 g 0.5ms	1000 g 0.5ms	1000 g 0.5ms

13	Sinusoidal vibration	25 g @30-500Hz	25 g @30-500Hz	25 g @30-500Hz
14	Resolution	< 10 $\mu$ g	< 10 $\mu$ g	< 10 $\mu$ g
15	Bandwidth	> 300 Hz	> 300 Hz	> 300 Hz
16	Current consumption	< 20 mA	< 20 mA	< 20 mA
17	Impact	150g, 5ms, 1/2sin	150g, 5ms, 1/2sin	150g, 5ms, 1/2sin
18	Power consumption @ $\pm$ 15VDC	< 480 mW	< 480 mW	< 480 mW
19	Input voltage	$\pm$ 12 to $\pm$ 18V	$\pm$ 12 to $\pm$ 18V	$\pm$ 12 to $\pm$ 18V
20	Shell material	300 series stainless steel	300 series stainless steel	300 series stainless steel

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