

SENOFEE

ITEM NO: QFAD



Quartz Flexible Accelerometer

Email: info@senofee.com / <http://www.senofee.com>

General Description

QFAD 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	QFAD-01	QFAD-02	QFAD-03
1	Range	±30g	±30g	±30g
2	Offset K0(@25°C)	≤±5 mg	≤±5 mg	≤±5 mg
3	Comprehensive repeatability of bias month $\sigma K0$ (1 σ , 1 month)	< 50 μ g	< 250 μ g	< 250 μ 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 μ g/°C	< 150 μ g/°C	< 150 μ g/°C
6	Comprehensive repeatability of scale factor $\sigma K1/K1$ (1 σ , 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 μ rad	< 1500 μ rad	< 1500 μ rad
9	Vibration	< 100 μ g/g ² rms (50-500Hz)	< 100 μ g/g ² rms (50-500Hz)	< 100 μ g/g ² rms (50-500Hz)
10	Noise	< 3000 μ g-rms (0-10000Hz)	< 3000 μ g-rms (0-10000Hz)	< 3000 μ 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 μ g	< 10 μ g	< 10 μ 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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