



Quartz Fexible Accelerometer

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General Description

This product is a highly integrated high-precision inertial navigation accelerometer with excellent long-term stability, repeatability, start-up performance, high reliability and high integration. It can be used for both static test and dynamic test. It is a standard vibration sensor. The product adopts a dedicated circuit design, and the output current is proportional to the input acceleration. Select a suitable sampling resistor through calculation to achieve highprecision output; a temperature sensor can be built-in according to requirements to compensate for the offset and scale factor and reduce the influence of temperature.

Technique Data

number	Parameter	QFAG
1	Range	±50g
2	Threshold	10µg
3	Offset K0(@25℃)	≤±5 mg
4	Scale factor K1	0.8~1.2 mA/g
5	Second-order nonlinear coefficient K2	≤±20µg/g2
6	0g 4-hour short-term stability	≤30 µg
7	1g 4 hours short-term stability	≤20 Ppm
8	Overall repeatability of bias σK0 (1σ, 1 month)	≤30 µg
9	Comprehensive repeatability of scale factor σK1/K1 (1σ, 1 month)	≤50Ppm
10	Comprehensive repeatability of nonlinear coefficient K2/K1 (1σ, 1 month)	≤±10 µg/g2
11	Temperature coefficient of deviation (all temper-ature average)	≤±30 µg /℃
12	Scale factor temperature coefficient (full temperature average)	≤±30 Ppm /℃

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13	Noise (sampling resistance is 840Ω)	≤8.4mv
14	Natural frequency	350~800 Hz
15	Bandwidth	800~2500 Hz
16	Random vibration	6g(20-2000Hz)
17	Impact	100g, 5ms, 1/2sin
18	Operating temperature range	-55~+85℃
19	Storage temperature range	-60~+120°C
20	Power supply	±12~±15V
21	Current consumption	≤±20mA
22	User can be customized	



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