

## JB2 Quartz Accelerometer



JB2 Series quartz flexibility Accelerometer is a high accuracy, large-scale Accelerometer (up to 100g), excellent long-term stability, Repeatability, start-up performance, environmental adaptability and reliability make it a cost-effective military inertia grade quartz flexibility Accelerometer.

The Accelerometer output current and the force received are linear output, and the user can select the appropriate sampling resistor to achieve the highest accuracy output. At the same time, the Tempe Sensor is built in, and the output current changes linearly with temperature. The user compensates the Deviation value and Scale factor to reduce the temperature effect (optional). The product can be used for both static and dynamic testing and is a standard vibration sensor.

Applications: Inertial measurement and precision instrumentation for military high accuracy inertial navigation systems in aerospace, aerospace, marine, and weapons

No.	Parameter	JB2-01	JB2-02
1	measuring range	±70g	±70g
2	Threshold value	5μg	5μg
3	Deviation value k0/k1	≤(±3 mg)	≤(±5 mg)
4	Scale factor k1	1.3±0.2 mA/g	1.3±0.2 mA/g
5	Second-order nonlinear coefficientK2	≤±20μg /g <sup>2</sup>	≤±30μg /g <sup>2</sup>
6	0g 4 h short-term stability	≤10 μg	≤20 μg
7	1g 4 h short-term stability	≤10 ppm	≤20 ppm
8	Deviation value Comprehensive repeatability $\sigma_0$ (1 $\sigma$ , 1 month)	≤10 μg	≤30 μg
9	Scale factor Comprehensive repeatability $\sigma_1/k_1$ (1 $\sigma$ , 1 month)	≤15ppm	≤30 ppm
10	Nonlinear coefficient Comprehensive repeatability $\sigma_2/k_1$ (1 $\sigma$ , 1 month)	≤±10 μg /g <sup>2</sup>	≤±20 μg /g <sup>2</sup>
11	Deviation valueTemperature Coefficient	≤±20 μg /°C	≤±30 μg /°C
12	Scale factorTemperature Coefficient	≤±20 ppm /°C	≤±30ppm /°C
13	noise(Sampling resistance is 840Ω)	≤5mv	≤8.4mv
14	Natural frequency	400~800 Hz	400~800 Hz
15	bandwidth	800~2500 Hz	800~2500 Hz
16	vibration	5g(20-2000Hz)	5g(20-2000Hz)
17	Shock	100g,5ms,1/2sin	100g,5ms,1/2sin
18	Operating temperature measuring range	-40-+85°C	-40-+85°C
19	storage temperature measuring range	-60-+120°C	-60-+120°C
20	powered	±12~±15V	±12~±15V
21	Current consumption	≤±20mA	≤±20mA
22	Tempe Sensor	Yes and No two type	Yes and No two type
23	size	Φ25.4X30mm	Φ25.4X30mm
24	weight	≤80g	≤80g