

# JB6 Accelerometer

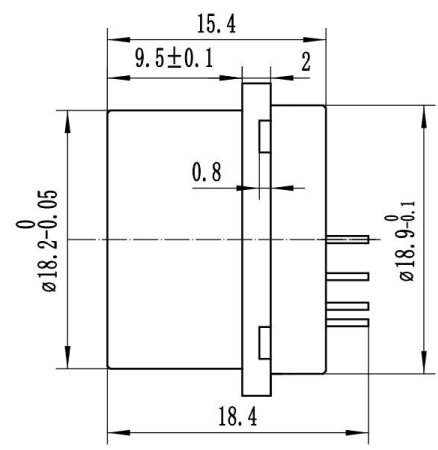
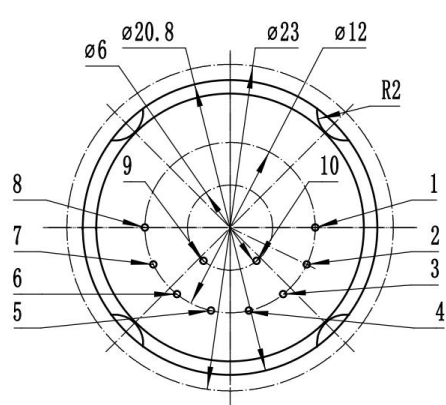


KT-JB 6 series quartz flexible accelerometer is a small, high temperature resistant seismic type accelerometer. The product has excellent repeatability, starting performance, high temperature seismic resistance and high reliability characteristics, which can be used for both static testing and dynamic testing, and is also a standard vibration sensor.

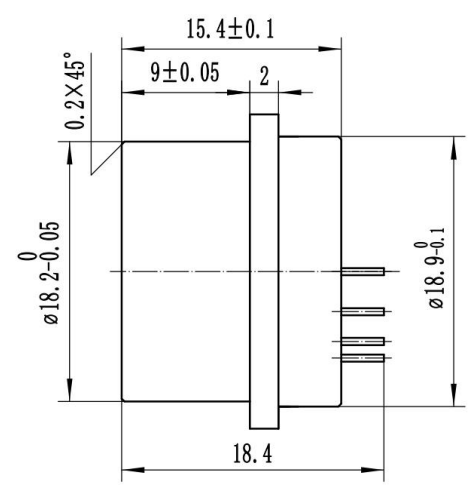
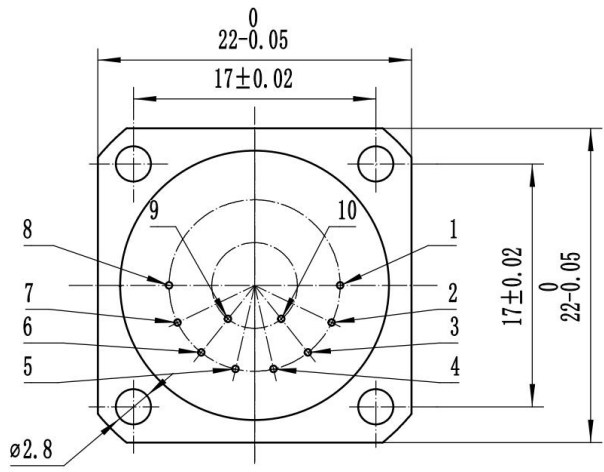
The product adopts unique miniaturization, high temperature resistant seismic design, advanced packaging process and special circuit, the output current of the product is proportional to the input acceleration, the user can select the appropriate sampling resistance through calculation, to achieve high precision output. And according to the user requirements of the built-in temperature sensor, can be used to compensate for the partial value and scale factor, to reduce the impact of environmental temperature. Since the launch of this product was launched in 2012, the number of deliveries has reached thousands. After years of application, it has become a mature product. The product has been widely used in the drilling measurement of oil drilling.

#### Features:

1. Excellent turn-on repeatability performance
2. Environmentally rugged
3. Analog output
4. Field adjustable range
5. Smaller outline size( $\leq 25$ gram)
6. Widely operating Temperature Range (-55~180°C)



JB6-A type outside drawing (round)



JB6-B type outside drawing (square)

## Performance characteristics

S/No	Parameters	JB6-01	JB6-02
1	Range	± 30g	± 30g
2	Threshold /Resolution	30μg	30μg
3	Bias k0/k1	≤(± 20 mg)	≤(± 20 mg)
4	Scale factor k1	1.9~2.1mA/g	1.9~2.1mA/g
5	Class II nonlinearity coefficient k2/k1	≤±50μg /g <sup>2</sup>	≤±20μg /g <sup>2</sup>
6	Bias drift Sigma k0( 1σ, one month)	≤220 μg	≤150 μg
7	Stability of scale factor Sigma k1/k1 ( 1σ, one month)	≤220 ppm	≤150ppm
8	Class II nonlinearity Coefficient stability k2/k1(1σ, one month)	≤±50 μg /g <sup>2</sup>	≤±40 μg /g <sup>2</sup>
9	Bias thermal coefficient	≤±150 μg /°C	≤±80 μg /°C
10	Scale factor thermal coefficient	≤±200 ppm /°C	≤±100 ppm /°C
11	Noise (sample resistance 840Ω)	≤8.4mv	≤8mv
12	Natural Frequency	350~800 Hz	350~800 Hz
13	Bandwidth	800~2500 Hz	800~2500 Hz
14	Vibration	25g(20-2000Hz)	25g(20-2000Hz)
15	Shock	1000g,0.5ms,1/2sin	1000g,0.5ms,1/2sin
16	Temperature range(Operating)	-40+180°C	-40°C+150°C
17	Temperature range(saved)	-60+200°C	-60+180°C
18	Power	± 12~ ± 15V	± 12~ ± 15V
19	Consume current	± 20mA	± 20mA
20	Size	Φ18.2X16mm	Φ18.2X16mm
21	Weight	25g	25g

DISCLAIMER: Specifications are subject to change without notice. kaituo reserves the right to make changes to any product or technology herein to improve reliability, function or design.

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