

JHT-I/H/A /B /C Series Quartz Flexure Accelerometers

1 .Product Description

JHT-I/H/A Quartz Flexure Accelerometers for carrier microgravity measurement system and high-precision inertial navigation system can be used for high-precision static angle measurement system. JHT-I-B-type high-precision Quartz Flexible Accelerometer for attitude determination and navigation of various objects. While the inertial navigation system and control system aircraft and aerospace ships, tanks, military vehicles, but also has a wide range of applications. JHT-I-C Quartz Flexible Accelerometer can be used in tanks, military vehicles and other navigation systems.

2. Main parameters

| No. | Parameter | JHT-I-H | JHT-I-A | JHT-I-B | JHT-I-C | Rating |
|-----|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1 | Bias | 1 | 3 | 3 | 5 | mg |
| 2 | Scale Factor | 1.2±0.2 | 1.2±0.2 | 1.2±0.2 | 1.2±0.2 | mA/g |
| 3 | Second-order Nonlinearity | 5 | 10 | 20 | 20 | μg / g ² |
| 4 | Bias Temp Sensitivity | 15 | 20 | 30 | 50 | μg / °C |
| 5 | Scale Factor Temp Sensitivity | 15 | 20 | 30 | 50 | PPm / °C |
| 6 | Bias Long-term repeatability (1 month or 3 months) | 10 | 20 | 30 | 40 | μg |
| 7 | Scale Factor Long-term repeatability (1 month or 3 months) | 10 | 20 | 30 | 40 | ppm |
| 8 | Second-order Nonlinearity Long-term repeatability (1 month or 3 months) | 5 | 10 | 10 | 20 | μg / g ² |
| 9 | Natural Frequency | 800 | 800 | 800 | 800 | Hz |
| 10 | Range | ±20, 30, 40, 50, 60 | ±20, 30, 40, 50, 60 | ±20, 30, 40, 50, 60 | ±20, 30, 40, 50, 60 | g |

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|----|----------------|---------------------|--------------------|---------------------|---------------------|--------|
| 11 | Vibration | 15g (20~2000Hz) | 15g (20~2000Hz) | 15g (20~2000Hz) | 15g (20~2000Hz) | g, Hz |
| 12 | Shock | 150g, 4ms, 1/2sin | 150g, 4ms, 1/2sin | 150g, 4ms, 1/2sin | 150g, 4ms, 1/2sin | g, m s |
| 13 | Operating Temp | -45~+95 | -45~+95 | -45~+95 | -45~+95 | °C |
| 14 | Test Temp | -45~+80 | -45~+80 | -45~+80 | -45~+80 | °C |
| 15 | Weight | 80 | 80 | 80 | 80 | g |
| 16 | Resolution | 1×10 ⁻⁶ | 1×10 ⁻⁶ | 1×10 ⁻⁶ | 1×10 ⁻⁶ | g |
| 17 | Supply Voltage | ±12~±15 | ±12~±15 | ±12~±15 | ±12~±15 | V |
| 18 | Feature | Very-high Precision | High Precision | Inertial navigation | Inertial navigation | |

