



MIMU

BS-GU5-M-D3EC

MEMS Inertial Devices and Systems

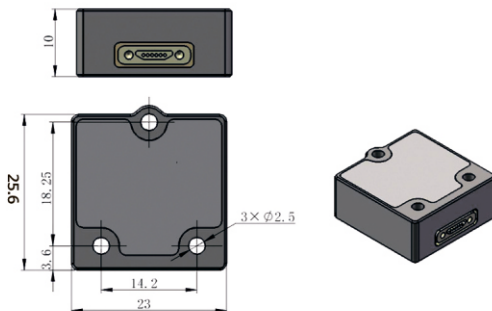
- ◇ Based on MEMS process
- ◇ Digital Gyros & Accelerometers
- ◇ High Speed Processor Embedded
- ◇ Compensation & Calibration
- ◇ Low power, Small Size
- ◇ High Tolerance

| | Parameter | BS-GU5-M-D3EC |
|--------------------|-----------------------------|-----------------------------------|
| Gyro Performance | Range | ±450 °/s (Extendable to ±3600°/s) |
| | Bias in Full temperature | ≤ 100 °/h |
| | Bias Stability | ≤10 °/h |
| | Bias Repeatability(1σ) | ≤8 °/h |
| | Scale Factor Non-linearity | ≤50 ppm |
| | Sensitive Axis Misalignment | ≤10 ′ |
| | Threshold/Resolution | 0.005°/s |
| | G-Sensitivity | 0.01 °/s/g |
| | -3 dB Bandwidth | 150 Hz (10~250Hz Adjustable) |
| System Performance | Refresh Rate | 1000 Hz |
| | Weight | ≤30 g |
| | Size | 23 mm×23 mm×10 mm |
| | Supply Voltage | 5±0.3 V |
| | Interface | RS422 |
| | Connector | JMC-1284Z2-JH |
| | Vibration Level | ≥20 g rms |
| | Shock Resistance | ≥2000 g |
| | Operating Temp. | -45 °C~+85 °C |
| | Storing Temp. | -55 °C~+105 °C |

◇ Applications

- Integrated Navigation Systems & Inertial Guidance Systems
- Flight Control & Guidance Systems
- Attitude Heading Reference Systems (AHRS)
- Stabilization of Antennas, Cameras & Platforms

◇ Structure (unit:mm)



Side View & Top View

| ID | Definition | Note |
|----|------------|-------------------------|
| 1 | VCC(+5V) | Power Positive |
| 2 | GND | Power Ground |
| 3 | Rx+ | RS422 Receive Positive |
| 4 | Rx- | RS422 Receive Negative |
| 5 | Tx- | RS422 Transmit Negative |
| 6 | Tx+ | RS422 Transmit Positive |

Definition