

BSD50

FIBER OPTIC GYROSCOPE

- Digital closed-loop mode, bias stability: 0.05°/h ~ 0.5°/h
- Small size: ϕ 50mm×37.7mm
Light weight: \leq 130g
- High precision, simple structure, wide dynamic range, short start-up time and strong resistance to vibration and shock.

APPLICATIONS



Small IMU, INS , Seeker.

Servo tracking , Electro-optical pod , UAV



PERFORMANCE

Parameters	BSD50A	BSD50B	BSD50C
Input Range	± 1000 °/s	± 1000 °/s	± 1000 °/s
Bias Stability	≤ 0.05 °/h	≤ 0.1 °/h	≤ 0.5 °/h
Bias Repeatability	≤ 0.05 °/h	≤ 0.1 °/h	≤ 0.5 °/h
Random Walk Coefficient	≤ 0.005 ° / \sqrt{h}	≤ 0.01 ° / \sqrt{h}	≤ 0.05 ° / \sqrt{h}
Scale Factor Non-linearity	≤ 50 ppm	≤ 50 ppm	≤ 100 ppm
Scaling Factor Repeatability	≤ 50 ppm	≤ 50 ppm	≤ 100 ppm
Scale Factor Asymmetry	≤ 50 ppm	≤ 50 ppm	≤ 100 ppm
Startup Time		≤ 1 s	
Bandwidth		>200 HZ	
Power Supply		± 5 V (Single power supply -5,+5 available)	
Power		≤ 6 W	
Operating Temperature		- 40 ~ 65 °C	
Storage temperature		- 50 ~ 80 °C	
Vibration		20 ~ 2000 Hz , 0.06 g ² /Hz	
Shock		30 g, 11ms	
Data Refresh Date		200 ~ 2000 Hz	
Baud Rate		115200 ~ 921600 bps	
Output Mode		Broadcast (default) / Triggered (customized)	
Interface		RS-422	
Connector		J30J-15TJL	
Dimensions		50×50×37.7 mm (Can be customized 50×50×25)	
Weight		130 g	