

BSD98

FIBER OPTIC GYROSCOPE



- Digital closed-loop mode, bias stability: $0.01^{\circ}/h \sim 0.05^{\circ}/h$, 10s smoothing
- Small size: $98mm \times 98mm \times 35mm$, light weight: $\leq 550g$
- High precision, simple structure, wide dynamic range, short start-up time and strong resistance to vibration and shock.

APPLICATIONS



High-precision inertial navigation system, vehicle positioning and orientation.

PERFORMANCE

Parameters	BSD98A	BSD98B	BSD98C
Input Range	$\pm 500^{\circ}/s$	$\pm 500^{\circ}/s$	$\pm 500^{\circ}/s$
Bias Stability	$\leq 0.01^{\circ}/h$ (10 s)	$\leq 0.02^{\circ}/h$ (10 s)	$\leq 0.05^{\circ}/h$ (10 s)
Bias Repeatability	$\leq 0.01^{\circ}/h$	$\leq 0.02^{\circ}/h$	$\leq 0.05^{\circ}/h$
Random Walk Coefficient	$\leq 0.001^{\circ} / \sqrt{h}$	$\leq 0.002^{\circ} / \sqrt{h}$	$\leq 0.005^{\circ} / \sqrt{h}$
Scale Factor Non-linearity	≤ 10 ppm	≤ 20 ppm	≤ 30 ppm
Scaling Factor Repeatability	≤ 10 ppm	≤ 20 ppm	≤ 30 ppm
Scale Factor Asymmetry	≤ 10 ppm	≤ 20 ppm	≤ 30 ppm
Startup Time	$\leq 1s$		
Bandwidth	>200 HZ		
Power Supply	$\pm 5V$ (Single power supply $-5,+5$ available)		
Power	≤ 2.5 W		
Operating Temperature	$-40 \sim 65^{\circ}C$		
Storage temperature	$-50 \sim 80^{\circ}C$		
Vibration	$20 \sim 500$ 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	$98 \times 98 \times 35mm$		
Weight	550 g		