



DFOG-A Fiber Optic Gyroscope

DFOG-A

The DFOG-A fiber optic gyroscope is a standard cost-precision fiber optic gyroscope with excellent cost performance. Compared with other domestic products of the same type, it has superior bias stability and temperature characteristics. At the same time, it has the characteristics of light weight, convenient use, good magnetic shielding and mature technology. It has been widely used in the fields of stability control, navigation guidance and attitude measurement.

Technical indicators

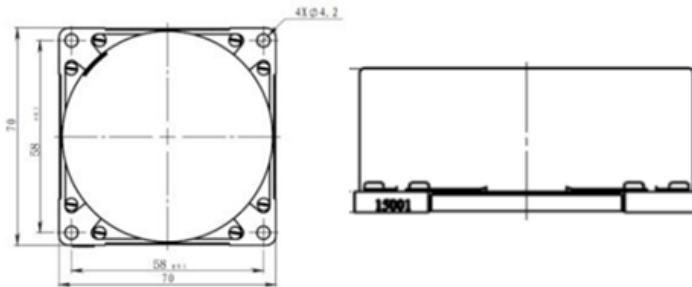
Fiber Optic Gyroscope Performance

Vibration condition	6.06g (RMS), 20~2000Hz
Bias Instability	$\leq 0.1^\circ /h$ (10 second smooth, fixed temperature point test) $\leq 0.1^\circ /h$ (10 second smooth, fixed temperature point test removal start time 5 min) $\leq 0.1^\circ /h$ (10 second smooth, -20~+65° C temperature change test temperature change rate $\leq 1^\circ C/min$)
Bias repeat ability	$\leq 0.1^\circ /h$ (fixed temperature point)
Full temperature zero offset change	$\leq 0.5^\circ /h$ (-20~+65° C)
Angle Random Walk	$\leq 0.01/\sqrt{h}$
Bandwidth	$\geq 500Hz$
Threshold	$\leq 0.3^\circ /h$

System Performance

Weight	$\leq 200g$
Dimensions	70mm*70mm*32mm(mounting hole spacing: 58mm)
Power Supply	$\pm 5V DC$
Power Consumption (Maximum)	$\leq 2.5W$
Working Temperature	-40~+70°C
Data Interface	RS422

Dimensions



Fiber Optic Gyroscope Specifications

Measuring range	-1000°/s—+1000°/s
Scale factor non-linearity	$\leq 100ppm$
Scale factor asymmetry	$\leq 100ppm$
Scale factor repeat-ability	$\leq 100ppm$
Temperature scale factor variation	$\leq 200ppm; (-40 + 60^\circ C)$
Maximum data update frequency	$\leq 2000Hz$