Dual Axis MEMS Gyroscope

The Dual Axis MEMS Gyroscope has the characteristics of low power consumption, wide operating temperature range, wide bandwidth, small size, fast start-up, DC input and DC output, etc., and can be widely used in automotive electronics, aircraft guidance and control, attitude reference systems, platform stability, Robots, antenna stability, cameras, digital camera gyroscopes and other systems.

Applications

UAV (Unmanned Aerial Vehicle)

Balance measurement

Specifications

MEMS Gyroscope Parameter	Unit	ER-2MG-01
Range	°/s	±250
Bias (Full temp.)	°/s	≤0.05
Short term bias stability (1σ)	°/h	≤25
Bias repeatability	°/h	≤25
Non-orthogonality	°	≤3
Bias temp. coefficient	°/s/℃	≤0.0005
Bandwidth	Hz	100(2~±400Hz)
Scale factor sensitivity	ppm	≤200
Scale factor non-linearity	ppm	–
Threshold/Resolution	°/s	0.005
Start up time	s	–
Output	/	RS422
Shock resistance	g	2000
Operation temp.	℃	-45~85
Storage temp.	℃	-55~100
Scale factor sensitivity Temp. coefficient	°/s	≤10
All values are typical at +25℃, +5DC, unless otherwise statement		