

HTS-X1/5 High accurate single axis MEMS Gyro

HTS-X1/5 series single axis MEMS Gyro is composed of a home-made MEMS gyroscope chip with independent intellectual property rights and their driving pickup circuit, temperature sensor, digital signal processing circuit, etc.

It's with high accuracy, good repeatability, small size, impact resistance, low delay, etc., can be widely used in guidance and attitude control and other fields.



Spec	Unit	HTS-X1/5A	HTS-X1/5B	HTS-X1/5C
Range	°/s	±400	±400	±400
Zero bias	°/s	0.02		
Bias stability (1s smooth, 1σ, room temperature)	°/h	10	5	1
Bias error (full temperature range)	°/h	20	10	2
Random drift	°/√h	0.2	0.1	0.1
Bias repeatability	°/h	10	5	1
Bias acceleration sensitivity	°/h /g	1		
Resolution	°/h	2		
Scale factor non-linearity	PPM	100		
Scale factor repeatability	PPM	100		
Cross coupling	%	0.1		
Start stable time	s	≤1		
Band width	Hz	250		

Sample rate	Hz	2000
Operating voltage	V	5±0.5
Consumption	W	≤0.5
Operating temperature	°C	-40~65
Storage temperature	°C	-55~105
Vibration	—	10~2000Hz, 6.06g
Shock	—	5000g, 0.1ms
MTBF	h	20000
Weight	g	10
Dimension	mm	18*18*10.2
Connection	—	SPI