

HTS-E3/6 High accurate three-axis MEMS Gyro

HTS-E3/6 series high-precision three-axis microgyro combination is composed of domestic MEMS gyro chip and its driving pickup circuit, temperature sensor, digital signal processing circuit, structure and software, etc., used for real-time measurement of the angular velocity of the carrier in three axial direction.



Spec	Unit	HTS-E3/6A	HTS-E3/6B	HTS-E3/6C
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		
Zero bias noise (P-P)	°/s	≤0.3		

Operating voltage	V	5±0.5
Consumption	W	≤1
Operating temperature	°C	-40~65
Storage temperature	°C	-55~105
Vibration	—	10~2000Hz, 6.06g
Shock	—	5000g, 0.1ms
MTBF	h	20000
Weight	g	38
Dimension	mm	44.8*38.6*13.5
Connection	—	RS-422