HT-B3 precision strapdown flexible gyroscop

1. Profile

The gyroscope with high precision ,long life time, wide dynamic range, high reliability has been used for water surface, land strapdown system, fast true-north seeking, television antenna tracker, and widely used in spaceflight strapdown inertial system. The gyroscope also can be used for land, sea, aviation, spaceflight transporter strapdown and platform attitude system.

2. Applications

Ground, maritime, aviation, aerospace vehicle strapdown attitude and platform system.

3. Main Parameters

N0.	parameters		Specification
1	Performance parameters	Random Drift	≤0.03°OR≤0.01°/h
		Day to Day Drift	≤0.1°/h
		Torquer Scale Factor	≥670°/h/mA
		Maximum Continuous Torquing Speed	≥60°/s
2	Gyro Motor	Power Supply of Driving Motor Exciting Voltage	Three-phase AC 500Hz, the frequency stability of 10^{-4} Line voltage 20V (sine wave).
		Motor Synchro Speed	10000 n/min
		Motor Start Power	5W
		Motor Synchronizing	≤20s

		Time	
3	Resistance of Torquer Coil Winding(Primary Winding)		50Ω±3Ω
4	Resistance of Torquer Coil Winding(Secondary Winding)		2Ω±3Ω
5	Working Temperature（℃）		-40～+65℃
6	Shock half sine		30g 5～8ms
7	Vibration		5g 20～2000Hz
8	Physical parameters	Dimensions（mm）	φ50×76 mm
		Mounting Hole（mm）	52×52mm
		Weight（g）	≤630g