

## HT-A4 small size platform flexible gyroscope

### 1 .Product Description

The gyroscope with light weight, small size, long life time and wide application, has been used for ship navigation, artillery fast true-north seeking systems and so on. Can be used for aviation, spaceflight transporter platform attitude control system and navigation products.



### 2. Main Parameters

| NO. | parameters  | Specification                                  |   |
|-----|---|--|---|
| 1   | Performance parameters                                | Random Drift                                   | $\leq 0.3^\circ/\text{h}$   |
|     |   | Day to Day Drift                               | $\leq 1^\circ/\text{h}$   |
|     |   | Torquer Scale Factor                           | $\geq 500^\circ/\text{h}/\text{mA}$   |
|     |   | Maximum Continuous Torquing Speed              | $100^\circ/\text{s}(\text{optional})$   |
| 2.  | Gyro Motor  | Power Supply of Driving Motor Exciting Voltage | Three-phase AC 500Hz, the frequency stability of $10^{-4}$<br>Line voltage 12V (sine wave). |
|     |   | Motor Synchro Speed                            | 12000 n/min   |
|     |   | Motor Start Power                              | 4 W   |
|     |   | Motor Synchronizing Time                       | $\leq 10\text{s}$   |
| 3.  | Resistance of Torquer Coil Winding (Primary Winding)  | $7\Omega \pm 1\Omega$                          |   |
| 4.  | Resistance of Torquer Coil Winding(Secondary Winding) | $2\Omega \pm 3\Omega$                          |   |
| 5   | Working Temperature (°C)                              | $-40 \sim +65^\circ\text{C}$                   |   |
| 6   | Shock half sine                                       | 30g 5~8ms                                      |   |

|   |                     |                    |              |
|---|---------------------|--------------------|--------------|
| 7 | Vibration           |                    | 5g 20~2000Hz |
| 8 | Physical parameters | Dimensions (mm)    | Φ29×53mm     |
|   |                     | Mounting Hole (mm) | 30×30mm      |
|   |                     | Weight (g)         | ≤130g        |

