ER-DTG-E4 Strapdown Dynamically Tuned Gyroscope

Introduction

Strapdown Dynamically Tuned Gyroscope with advantages of high precision, long life time, wide dynamic range, and high reliability, now has been widely used in water surface and land strapdown system, fast true-north seeking instrument, helicopter light guidance platform, television antenna tracker, and so on. The gyroscope also can be used in spaceflight strapdown inertial system and the land, sea, aviation, spaceflight transporter strapdown and platform type attitude system.

Features

High precision;

Light weight;

Small volume;

High reliability.

Specifications

1	Random Drift (1σ)	0.03°/h
2	Drift Stability (1σ)	0.2°/h
3	g-independent	≤12°/h
4	g-dependent	≤3°/h
5	Frequency Response	≥60Hz
6	Power Supply (Three Phase)	500Hz 20V
7	Power Supply (Single Phase)	16KHz 7V
8	Synchronous Speed	10,000

9	Power for Start Up	5W
10	Operating Current	≤3A
11	Synchronizing Time	≤20S
12	Output Gradient	21±2 mv/'
13	Master torquer	50±3 Ω
14	Vice control torquer	2±0.5 Ω
15	Master torquer	≥670°/h/mA
16	Vice control torquer	≥10°/h/mA
17	Max. Tracking Speed	≥60°/s
18	Output Non-linearity	≤0.1%
19	Lifetime	≥5000
20	Operating Temperature	-30~+65℃
21	Shock Overload (8ms)	≥50g
22	Dimension	Ф50×76mm
23	Mounting flanges	52×52mm
24	Weight	≤630g