

## ER-DTG-E3 High Accuracy Dynamically Tuned Gyroscope

### Introduction

High Accuracy Dynamically Tuned Gyroscope for aerospace with advantages as light weight, small size, and high precision, now is widely used in space strapdown attitude system, and also can be used in ground, maritime, aviation, Aerospace and other transportation carriers.

### Features

High-precision strapdown flexible gyroscope;

Light weight, small size, and high precision;

Widely applied in strapdown attitude system in aerospace.

### Specifications

1	Random Drift ( $1\sigma$ )	$\leq 0.03^\circ/\text{h}$
2	Drift Stability ( $1\sigma$ )	$\leq 0.2^\circ/\text{h}$
3	G-independent	$\leq 12^\circ/\text{h}$
4	G-dependent	$\leq 3^\circ/\text{h}$
5	Frequency Response	$\geq 60\text{Hz}$
6	Power Supply (Three Phase)	500 Hz 20V
7	Power Supply (Single Phase)	16KHz 7V
8	Synchronous Speed	10,000
9	Power to Start Up	5 W
10	Operating Current	$\leq 3\text{ A}$
11	Synchronizing Time	$\leq 20\text{ S}$
12	Output Gradient	$21\pm 2\text{ mv/}^\circ$
13	Master torquer	$50\pm 3\ \Omega$
14	Vice control torquer	$2\pm 0.5\ \Omega$
15	Master torquer	$\geq 670^\circ/\text{h/mA}$

16	Vice control torquer	$\geq 10^\circ/\text{h}/\text{mA}$
17	Max.Tracking Speed	$\geq 60^\circ/\text{s}$
18	Output Nonlinearity	$\leq 0.1\%$
19	Lifetime	$\geq 5000$
20	Operating Temperature	$-30\sim+65^\circ\text{C}$
21	Shock Overload (8ms)	$\geq 50\text{g}$
22	Dimension	$\Phi 55\times 84\text{ mm}$
23	Mounting flanges	$58\times 58\text{ mm}$
24	Weight	$\leq 630\text{g}$