

ER-DTG-E6 High Temperature Dynamically Tuned Gyroscope

Introduction

ER-DTG-E6 High Temperature Dynamically Tuned Gyroscope with high-temperature, small size, and short start time, not only can be used in higher operating temperature oil drilling inclinometer tool, but also used in short-range missile strapdown attitude system and the inertial measurement instrument.

Features

Light weight;

Small volume;

Short start time;

High temperature.

Specifications

1	Random Drift (1σ)	$0.2^\circ/\text{h}$
2	Drift Stability (1σ)	$0.3^\circ/\text{h}$
3	g-independent	$\leq 15^\circ/\text{h}$
4	g-dependent	$\leq 8^\circ/\text{h}$
5	Frequency Response	$\geq 70\text{Hz}$
6	Power Supply (Three Phase)	205Hz 10V
7	Power Supply (Single Phase)	8KHz 7V
8	Synchronous Speed	6,015
9	Synchronizing Time	$\leq 10\text{S}$
10	Output Gradient	7~10 mv/°
11	Master torquer	$19\pm 3 \Omega$

12	Vice control torquer	$2 \pm 0.5 \Omega$
13	Master torquer	$\geq 680^\circ/\text{h}/\text{mA}$
14	Vice control torquer	$\geq 10^\circ/\text{h}/\text{mA}$
15	Max. Tracking Speed	$\geq 100^\circ/\text{s}$
16	Output Non-linearity	$\leq 0.5\%$
17	Lifetime	≥ 5000
18	Operating Temperature	$-20 \sim +120^\circ\text{C}$
19	Shock Overload (8ms)	$\geq 60\text{g}$
20	Dimension	$\Phi 35.4 \times 78\text{mm}$
21	Mounting flanges	$38 \times 38\text{mm}$
22	Weight	$\leq 380\text{g}$