

国华舵机 4.3G 模拟详细说明书

Specification of Guo Hua servo GH-S43A

1. 使用环境条件

Apply Environmental Condition:

No.	项目 Item	规格 Specification
1-1	保存温度 Storage Temperature Range	-20℃~60℃
1-2	操作温度 Operating Temperature Range	-10℃~60℃
1-3	操作电压 Operating Voltage Range	3.6V~4.8V

2. 测试环境

Standard Test Environment:

2-1	测试环境 Standard Test Environment	每一种特性检查必须在正常的温度和湿度下进行测试，温度 $25 \pm 5^{\circ}\text{C}$ ，相对湿度 $65 \pm 10\%$ ，在按照本规范的标准测试条件下判断特征。 Every characteristic of the inspect must be normal temperature and humidity carry out the test, temperature $25 \pm 5^{\circ}\text{C}$ and relative humidity $65 \pm 10\%$ of judgment made in accordance with this specification standard testing conditions.
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3. 外观检查

Appearance Inspection:

No.	项目 Item	规格 Specification
3-1	外观尺寸 Outline Drawing	尺寸见尾页 Dimension see the last page
3-2	外观 Appearance	无损坏，不允许影响功能。 No damage which affects functions allowed.

4. 电气特性

Electrical Specification(Function of the Performance):

No.	项目 Item	3.6V	4.8V
4-1	空载转速 Operating speed(at no load)	0.15 Sec/60°	0.10 Sec/60°
4-2	空载电流 Running current(at no load)	≤40 m A	≤60 m A
4-3	堵转扭力 Stall torque(at locked)	0.60±0.1 kg-cm	0.80±0.1 kg-cm
4-4	堵转电流 Stall current(at locked)	≤200 m A	≤400 m A

4-5	待机电流 Idle current(at stopped)	≤3 m A	≤3 m A
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Note: Item 4-2 definition is average value when the servo running with no load.

5. 机械特性

Mechanical Specification:

No.	项目 Item	规格 Specification
5-1	外观尺寸 Overall Dimensions	见图纸 See the drawing
5-2	机构极限角度 Limit angle	200° ± 10°
5-3	齿轮类型	塑胶齿 Plastic gear
5-4	重量 Weight	4.3 grams(without servo horn and screw)
5-5	连接线规格 Connector wire gauge	#30 AWG
5-6	连接线长度 Connector wire length	150 ± 5 mm
5-7	摇臂规格 Horn gear spline	19T
5-8	摇臂种类 Horn type	十字、长一字、半一字 Cross, Two blade, One blade.

6. 控制特性

Control Specification:

No.	项目 Item	规格 Specification
6-1	控制系统 Control system	脉宽调整 Pulse width modification
6-2	操作角度 Operating travel	90° ± 5°
6-3	中立位置 Neutral position	1500 μ sec
6-4	脉冲讯号虚位 Dead band width	5 μ sec
6-5	旋转方向 Rotating direction	顺时针转(1500~2000 微秒) Clockwise(When 1500~2000 μ sec)

