



产品名称: 6V 3.0公斤 360度连续转数码舵机 Product Name: 6V 3.0kg. cm 360 Degree Continuous Rotation Digital Servo

产品型号 Model No. FT5303R

### 1. 使用环境条件 Apply Environmental Condition

No.	Item	Specification
1-1	存储温度 Storage Temperature Range	-30℃~80℃
1-2	运行温度 Operating Temperature Range	-20℃~70℃

### 2. 测试环境 Standard Test Environment

No.	Item	Specification
2-1	温度 Temperature range	25℃ ±5℃
2-2	湿度 Humidity range	65%±10%

### 3. 机械特性 Mechanical Specification

No.	Item	Specification
3-1	尺寸 Size	A: 40.15mm B: 20.15mm C: 37.55mm
3-2	重量 Weight	43.8g
3-3	齿轮类型 Gear type	Plastic Gear(POM ) (Gear Ratio=210:1)
3-6	机构极限角度 Limit angle	No Limit
3-7	轴承 Bearing	2 Ball bearings
3-8	出力轴 Horn gear spline	25T
3-9	摆臂 Horn type	Plastic, POM
3-10	外壳 Case	Nylon & Fiberglass
3-11	舵机线 Connector wire	300mm ±5 mm ( JR ) (Brown , Red and Orange)
3-12	马达 Motor	Metal brush motor
3-13	防水性能 Splash water resistance	NO

### 4. 电气特性 Electrical Specification (Function of the Performance)

No.	工作电压 Operating Voltage Range	3.0V	4.8V	6V
4-1*	静态电流 Idle current(at stopped)	5mA	5mA	5mA
4-2*	空载速度 No load speed	38RPM	65RPM	81RPM
4-3*	空载电流 Runnig current(at no load)	100mA	130 mA	150 mA
4-4	堵转扭矩 Peak stall torque	2.4kg. cm	3kg. cm	3.5 kg. cm
		33.38oz. in	41.74oz. in	48.7oz. in
4-5	堵转电流 Stall current	500mA	800 mA	1100mA

Note: "\*"definition is average value when the servo runing with no load



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5. 控制特性 Control Specification:

No.	Item	Specification
5-1	控制信号 Command signal	Pulse width modification
5-2	放大器类型 Amplifier type	Digital comparator
5-3	脉冲宽度范围 Pulse width range	500~2500μsec
5-4	中立位置 Neutral position	1500 μsec
5-5	旋转角度 Running degree	360 Degree Continuous rotation
5-6	死区宽度 Dead band width	1500±20 μsec (Stop Pulse Width)
5-7	旋转方向 Rotating direction	Counterclockwise (when 1500~2000 μsec) Stop (1500±20 μsec) clockwise (when 1500~1000 μsec)

6. 外形图 The Drawings

