

**产品规格书****Specification of Product**

产品名称: 6V 13公斤数码舵机 Product Name: 6V 11kg.cm Digital Servo
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产品型号 Model No. FR5311M

1. 使用环境条件 Apply Environmental Condition

No.	Item	Specification
1-1	存储温度 Storage Temperature Range	-30°C~80°C
1-2	运行温度 Operating Temperature Range	-15°C~70°C

2. 测试环境 Standard Test Environment

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

3. 机械特性 Mechanical Specification

No.	Item	Specification
3-1	尺寸 Size	A: 40mm B: 20mm C: 38mm
3-2	重量 Weight	58g ±0.2 (1.84oz)
3-3	齿轮类型 Gear type	Metal Gear
3-6	机构极限角度 Limit angle	No
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
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	5V	6V
4-1*	静态电流 Idle current(at stopped)	5mA	6mA
4-2*	空载速度 No load speed	60RPM	70RPM
4-3*	空载电流 Runnig current(at no load)	100 mA	130 mA
4-4	堵转扭矩 Peak stall torque	10. 1kg. cm	14. 5kg. cm
		168. 0oz. in	201. 4oz. in
4-5	堵转电流 Stall current	800 mA	1000mA

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	Analog 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	280° (±5°) (when 500~2500 μsec)
5-6	死区宽度 Dead band width	2 μsec
5-7	旋转方向 Rotating direction	Counterclockwise (when 1000~2000 μsec)

6. 外形图 The Drawings
