

**产品规格书****Specification of Product**

产品名称: 7.4V 20kg数字舵机

Product Name: 7.4V 20kg.cm High voltage Digital Servo

产品型号 Model No. FT5121M

**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: 40.5mm B: 20.5mm C: 37.5mm
3-2	重量 Weight	60g
3-3	齿轮类型 Gear type	Metal Gear
3-6	机构极限角度 Limit angle	200degree
3-7	轴承 Bearing	Two Ball bearings
3-8	出力轴 Horn gear spline	25T
3-9	摆臂 Horn type	Plastic, POM
3-10	外壳 Case	Engineering plastics+Aluminium
3-11	舵机线 Connector wire	250mm ±5 mm
3-12	马达 Motor	Coreless 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	6V	7.4V
4-1*	静态电流 Idle current (at stopped)	5mA	6mA
4-2*	空载速度 No load speed	0.15sec/60degree	0.12sec/60degree
4-3*	空载电流 Runnig current (at no load)	250 mA	260 mA
4-4	堵转扭矩 Peak stall torque	17.5kg.cm	20.5kg.cm
		243.03oz.in	284.68oz.in
4-5	堵转电流 Stall current	1500 mA	1800mA

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	900~2100 $\mu$ sec
5-4	中立位置 Neutral position	1500 $\mu$ sec
5-5	旋转角度 Running degree	120° (when 900~2100 $\mu$ sec)
5-6	死区宽度 Dead band width	2 $\mu$ sec
5-7	旋转方向 Rotating direction	CW(when 1500~900 $\mu$ sec) CCW(when 1500~2100 $\mu$ sec)

**6. 外形图 The Drawings**
