

**产品规格书****Specification of Product**

产品名称: 6V 15公斤数字舵机 Product Name: 6V 15kg.cm Digital Servo

产品型号 Model No.FT5116M

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 | -15℃~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: 40mm B: 20.1mm C: 38.3mm D: 54mm |
| 3-2 | 重量 Weight | 64g |
| 3-3 | 齿轮类型 Gear type | Copper Gear |
| 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(5.9mm) |
| 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(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 | 4.8V | 6V |
|------|---------------------------------|-------------|-------------|
| 4-1* | 静态电流 Idle current(at stopped) | 5mA | 5mA |
| 4-2* | 空载速度 No load speed | 0.25sec/60° | 0.2 sec/60° |
| 4-3* | 空载电流 Runnig current(at no load) | 130 mA | 150 mA |
| 4-4 | 堵转扭矩 Peak stall torque | 13kg.cm | 15.5kg.cm |
| | | 180.85oz.in | 215.6oz.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 | 500~2500μsec |
| 5-4 | 中立位置 Neutral position | 1500 μsec |
| 5-5 | 旋转角度 Running degree | 300° (±5°) (when 500~2500 μsec) |
| 5-6 | 死区宽度 Dead band width | 4 μsec |
| 5-7 | 旋转方向 Rotating direction | Counterclockwise (when 1000~2000 μsec) |

6. 外形图 The Drawings
