

**产品规格书****Specification of Product**

产品名称: 6V 0.7kg模拟舵机

Product Name: 6V 0.7kg.cm Analog Servo

产品型号 Model No. FS0403

**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: 20mm B: 8.3mm C: 19.3mm |
| 3-2  | 重量 Weight                    | 5g                         |
| 3-3  | 齿轮类型 Gear type               | Plastic Gear               |
| 3-6  | 机构极限角度 Limit angle           | NO limit                   |
| 3-7  | 轴承 Bearing                   | NO Ball bearings           |
| 3-8  | 出力轴 Horn gear spline         | 20T                        |
| 3-9  | 摆臂 Horn type                 | Plastic, POM               |
| 3-10 | 外壳 Case                      | Plastic                    |
| 3-11 | 舵机线 Connector wire           | 150mm ±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      | 4.8V             | 6V               |
|------|-----------------------------------|------------------|------------------|
| 4-1* | 静态电流 Idle current (at stopped)    | 5mA              | 6mA              |
| 4-2* | 空载速度 No load speed                | 0.09sec/60degree | 0.08sec/60degree |
| 4-3* | 空载电流 Running current (at no load) | 60 mA            | 70 mA            |
| 4-4  | 堵转扭矩 Peak stall torque            | 0.6kg.cm         | 0.7kg.cm         |
|      |                                   | 8.35oz.in        | 9.74oz.in        |
| 4-5  | 堵转电流 Stall current                | 500 mA           | 600mA            |
|      |                                   |                  |                  |
|      |                                   |                  |                  |

Note: "\*"definition is average value when the servo running 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 | 900~2100 $\mu$ sec                           |
| 5-4 | 停止位置 Stop position       | 1500 ( $\pm$ 5) $\mu$ sec                    |
| 5-5 | 旋转角度 Running degree      | 120° (when 900~2100 $\mu$ sec)               |
| 5-6 | 死区宽度 Dead band width     | 4 $\mu$ sec                                  |
| 5-7 | 旋转方向 Rotating direction  | Counter Clockwise (when 1000~2000 $\mu$ sec) |

**6. 外形图 The Drawings**
