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| 产品名称: 6V 1.5kg模拟舵机<br>Product Name: 6V 1.5kg.cm Analog Servo |
| 产品型号 Model No. FS90  |

**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: 22.5mm B: 12.1mm C: 22.4mm |
| 3-2  | 重量 Weight                    | 9g                            |
| 3-3  | 齿轮类型 Gear type               | Plastic Gear                  |
| 3-6  | 机构极限角度 Limit angle           | 180degree                     |
| 3-7  | 轴承 Bearing                   | NO Ball bearings              |
| 3-8  | 出力轴 Horn gear spline         | 21T(4.86)                     |
| 3-9  | 摆臂 Horn type                 | Plastic, POM                  |
| 3-10 | 外壳 Case                      | ABS                           |
| 3-11 | 舵机线 Connector wire           | 250mm ±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              | 0.12sec/60degree | 0.10sec/60degree |
| 4-3* | 空载电流 Runnig current(at no load) | 100 mA           | 120 mA           |
| 4-4  | 堵转扭矩 Peak stall torque          | 1.3kg.cm         | 1.5kg.cm         |
|      |                                 | 18.09oz.in       | 20.86oz.in       |
| 4-5  | 堵转电流 Stall current              | 700 mA           | 800mA            |
|      |                                 |                  |                  |
|      |                                 |                  |                  |

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 | 900~2100μsec  |
| 5-4 | 中立位置 Neutral position    | 1500μsec  |
| 5-5 | 旋转角度 Running degree      | 120° (when 900~2100 μ sec) 180° (when 500~2500 μ sec) |
| 5-6 | 死区宽度 Dead band width     | 8 μsec  |
| 5-7 | 旋转方向 Rotating direction  | CW(when 1500~900 μsec)<br>CCW(when 1500~2100 μsec)    |

6. 外形图 The Drawings

