



产品规格书

Specification of Product

产品名称: 6V 3.5公斤数码舵机 Product Name: 6V 3.5kg-cm Digital Servo

产品型号 Model No. FT2331M

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: 23.2mm B: 12.1mm C: 25.5mm |
| 3-2 | 重量 Weight | 20g ±0.2 (0.71oz) |
| 3-3 | 齿轮类型 Gear type | Metal Gear |
| 3-6 | 机构极限角度 Limit angle | 360° |
| 3-7 | 轴承 Bearing | 2 Ball bearings |
| 3-8 | 出力轴 Horn gear spline | 25T(od 4.92mm) |
| 3-9 | 摆臂 Horn type | Plastic, POM |
| 3-10 | 外壳 Case | Aluminium |
| 3-11 | 舵机线 Connector wire | 150mm ±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 | 4.8V | 6V |
|------|----------------------------------|--------------|--------------|
| 4-1* | 静态电流 Idle current(at stopped) | 4.8mA | 6.0mA |
| 4-2* | 空载速度 No load speed | 0.09sec/60° | 0.07 sec/60° |
| 4-3* | 空载电流 Running current(at no load) | 125 mA | 150 mA |
| 4-4 | 堵转扭矩 Peak stall torque | 3 kg. cm | 3.5 kg. cm |
| | | 41.74 oz. in | 48.69 oz. in |
| 4-5 | 堵转电流 Stall current | 900 mA | 1000 mA |
| | | | |
| | | | |

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 | Digital Controller |
| 5-3 | 脉冲宽度范围 Pulse width range | 900~2100 μ sec |
| 5-4 | 中立位置 Neutral position | 1500 μ sec |
| 5-5 | 旋转角度 Running degree | 120° (when 900~2100 μ sec) |
| 5-6 | 死区宽度 Dead band width | 2 μ sec |
| 5-7 | 旋转方向 Rotating direction | Counterclockwise (when 1000~2000 μ sec) |

6. 外形图 The Drawings

