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| 产品名称: 6V 2kg 360度连续转数字舵机 Product Name: 6V 2kg. cm 360 Degree Continuous Rotation Digital Servo |
| 产品型号 Model No. FT90MR |

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: 23.2mm B: 12mm C: 25.5mm |
| 3-2 | 重量 Weight | 12.5g |
| 3-3 | 齿轮类型 Gear type | Metal 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 | ABS |
| 3-11 | 舵机线 Connector wire | 250mm |
| 3-12 | 马达 Motor | core 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 | 3V | 4.8V | 6V |
|------|----------------------------------|------------|------------|------------|
| 4-1* | 静态电流 Idle current (at stopped) | 5mA | 5mA | 6mA |
| 4-2* | 空载速度 No load speed | 50RPM | 80RPM | 100RPM |
| 4-3* | 空载电流 Runnig current (at no load) | 100 mA | 120 mA | 150 mA |
| 4-4 | 堵转扭矩 Peak stall torque | 1.05kg. cm | 1.89kg. cm | 2.15kg. cm |
| | | 14.6oz. in | 26.3oz. in | 29.9oz. in |
| 4-5 | 堵转电流 Stall current | 500 mA | 800 mA | 1000mA |
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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 | 900~2100μsec |
| 5-4 | 中立位置 Neutral position | 1500μsec |
| 5-5 | 旋转角度 Running degree | 360° Continuous Rotation |
| 5-6 | 死区宽度 Dead band width | +/-25 μsec |
| 5-8 | 旋转方向 Rotating direction | CW(when 1500~500 μsec) CCW(when 1500~2500 μsec) |

6. 外形图 The Drawings

