



产品名称: 6V 2kg数字舵机 Product Name: 6V 2kg.cm Digital Servo
产品型号 Model No. FT90M-FB

**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	0.2sec/60degree	0.12sec/60degree	0.1sec/60degree
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

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	1500μsec
5-5	旋转角度 Running degree	280° (when 500~2500 μ sec)
5-6	死区宽度 Dead band width	4 μsec
5-7	反馈电压 Feedback voltage	900μsec =0.04V 1500μsec= 1.65V 2100μsec=3.2V
5-8	旋转方向 Rotating direction	CW(when 1500~500 μsec) CCW(when 1500~2500 μsec)

6. 外形图 The Drawings

