



产品规格书

Specification of Product

产品名称: 6V 10公斤模拟舵机
Product Name: 6V 10kg.cm Analog Servo

产品型号 Model No. FS5109M

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: 40.8mm B: 20.1mm C: 38mm D: 49.5mm
3-2	重量 Weight	56g ±0.2 (1.98oz)
3-3	齿轮类型 Gear type	Metal gears
3-6	机构极限角度 Limit angle	200°
3-7	轴承 Bearing	2 Ball bearings
3-8	出力轴 Horn gear spline	25T
3-9	摆臂 Horn type	Plastic, POM
3-10	外壳 Case	Nylon & Fiberglass
3-11	舵机线 Connector wire	300mm ±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	7mA
4-2*	空载速度 No load speed	0.18sec/60°	0.16 sec/60°
4-3*	空载电流 Running current(at no load)	160 mA	190 mA
4-4	堵转扭矩 Peak stall torque	9kg.cm	10.2kg.cm
		125.2oz.in	141.9oz.in
4-5	堵转电流 Stall current	1500mA	2000mA

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	500~2500μsec
5-4	停止位置 Stop position	1500 (±5) μsec
5-5	旋转角度 Running degree	180° (500~2500μsec)
5-6	死区宽度 Dead band width	5 μsec
5-7	旋转方向 Rotating direction	CW(when 1500~500 μsec) CCW(when 1500~2500 μsec)

6. 外形图 The Drawings

