



产品名称: 6V 10公斤数码机器人舵机
 Product Name: 6V 10kg.cm Digital Robot Servo

产品型号 Model No. FR0109M

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: 40.0mm B: 20.0mm C: 40.5mm
3-2	重量 Weight	59g
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	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	0.14sec/60°	0.12 sec/60°
4-3*	空载电流 Runing current (at no load)	160 mA	190 mA
4-4	堵转扭矩 Peak stall torque	9kg. cm	10kg. cm
		125.2oz. in	139.1oz. in
4-5	堵转电流 Stall current	1200 mA	1500mA

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 system
5-3	脉冲宽度范围 Pulse width range	500~2500 μ sec
5-4	中立位置 Neutral position	1500 μ sec
5-5	旋转角度 Running degree	180° ($\pm 5^\circ$) (when 500~2500 μ sec)
5-6	死区宽度 Dead band width	4 μ sec
5-7	旋转方向 Rotating direction	Counterclockwise (when 1000~2000 μ sec)

6. 外形图 The Drawings

