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产品规格书

Specification of Product

产品名称: 6V 1.5kg模拟连续转舵机

Product Name: 6V 1.5kg.cm Analog Continuous rotation Servo

产品型号 Model No. FS90R

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: 12.5mm C: 22mm
3-2	重量 Weight	9g ±0.2
3-3	齿轮类型 Gear type	Plastic Gear (Nylon & POM)
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(4.8mm)
3-9	摆臂 Horn type	Plastic, POM
3-10	外壳 Case	Nylon & Fiberglass
3-11	舵机线 Connector wire	200mm ±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	6mA
4-2*	空载速度 No load speed	110RPM	130RPM
4-3*	空载电流 Running current (at no load)	100 mA	120 mA
4-4	堵转扭矩 Peak stall torque	1.3kg.cm	1.5kg.cm
		18.09oz.in	20.86oz.in
4-5	堵转电流 Stall current	550mA	650mA

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	Anal og compar ator
5-3	脉冲宽度范围 Pulse width range	700~2300μsec
5-4	停止位置 Stop position	1500 (±45) μsec
5-5	旋转角度 Runni ng degree	NO limit Conti nuous rotati on
5-6	死区宽度 Dead band wi dth	90 μsec
5-7	旋转方向 Rot ating di recti on	CW when 1500~700 μsec) CCW when 1500~2300 μsec)

6. 外形图 The Drawi ngs

