产品名称：4.8V 1.3kg模拟连续转舵机 Product Name：4.8V 1.3kg.cm Analog 360 Degree 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℃～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：22.5mm B：12.1mm C：27.7mm
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	21T(4.86mm)
3-9	摆臂 Horn type	Plastic,POM
3-10	外壳 Case	Nylon & Fiberglass
3-11	舵机线 Connector wire	250mm ±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	80RPM	100RPM
4-3*	空载电流 Runnig current(at no load)	110 mA	130 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	700 mA	800mA

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	Analog comparator
5-3	脉冲宽度范围 Pulse width range	700～2300μsec
5-4	停止位置 Stop position	1500 μsec
5-5	旋转角度 Running degree	360 Degree Continuous rotation
5-6	死区宽度 Dead band width	90 μsec
5-7	旋转方向 Rotating direction	CW(when 1500～700 μsec) CCW(when 1500～2300 μsec)

6.外形图 The Drawings

