



产品规格书

Specification of Product

产品名称: 6V 1.5kg模拟舵机

Product Name: 6V 1.5kg.cm Analog Servo

产品型号 Model No. FS90-C

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: 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	120
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	0.12sec/60degree	0.10sec/60degree
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	700 mA	800mA

Note: "*"definition is average value when the servo running with no load



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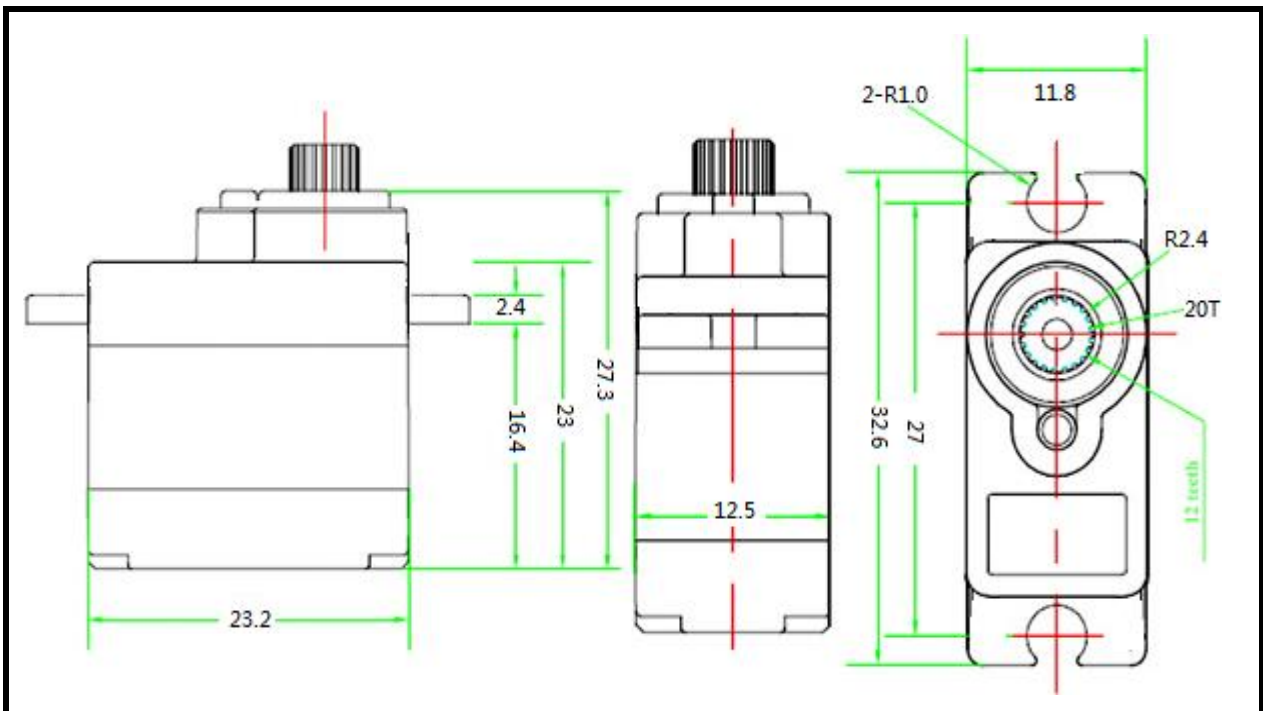
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5. 控制特性 Control Specification:

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	900~2100μsec
5-4	停止位置 Stop position	1500 (±5) μsec
5-5	旋转角度 Running degree	120 ° (when 900 ~ 2100 μ sec)
5-6	死区宽度 Dead band width	10 μsec
5-7	旋转方向 Rotating direction	CW(when 1500~900 μsec) CCW(when 1500~2100 μsec)

6. 外形图 The Drawings



FS90--Micro 9g servo for Air plane

Model No.: FS90



Product Description

Features

- Micro analog plastic gears servo
- Operating Voltage:4.8-6Volts
- Interface: (like JR)
- Wire length: 20cm

Power	4.8V	6V
Speed	0.12sec/60degree	0.07sec/60degree
Torque	1.3kg.cm/18.9oz.in	
Weight	9g(0.32oz)	
Size	23.2*12.5*22.0mm	
Application	for Air plane	

Connection description

Orange = Signal input
Red = +5V
Brown = 0V

Typical Signals

MIN_WIDTH 544 // shortest pulse sent to a servo 0°
MAX_WIDTH 2400 // longest pulse sent to a servo 180°
NEUTRAL_PULSE_WIDTH 1500 // MID pulse width when servo is at 90°
REFRESH_INTERVAL 20000 // min time to refresh in microseconds