

# 产品规格书

## Products Specification

Products Name:YF-6125MG Digital servo	Products No.
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### 1.使用条件 Apply Environmental Conditon

No.	Item	Specifcation
1.1	储存温度Storage Temperature Range	-30° C~80° C
1.2	运行温度Operating Temperature Range	-25° C~70° C

### 2.测试环境 Standard Test Environment

No.	Item	Specifcation
2.1	温度 Temperature Range	-25° C~70° C
2.2	湿度 Humidity Range	65%±10%

### 3. 机械特性 Mechanical Specification

No.	Item	Specifcation
3.1	舵机尺寸 Size	40.0*20.5*40.5mm
3.2	重量 Weight	56g±5%
3.3	齿轮类型 Gear type	5 Metal
3.4	机构极限角度 Limit angle	360°
3.5	轴承 Bearing	2BB
3.6	出力轴 Horn gear spline	25T 直径:5.9mm
3.7	摆臂 Horn type	Plastic, POM
3.8	外壳 Case	Engineering plastics(PBT)+Aluminum alloy
3.9	舵机线 Connector wire	320mm±5mm
3.10	马达 Motor	Carbon brush motor
3.11	防水性能 Splash water resistance	

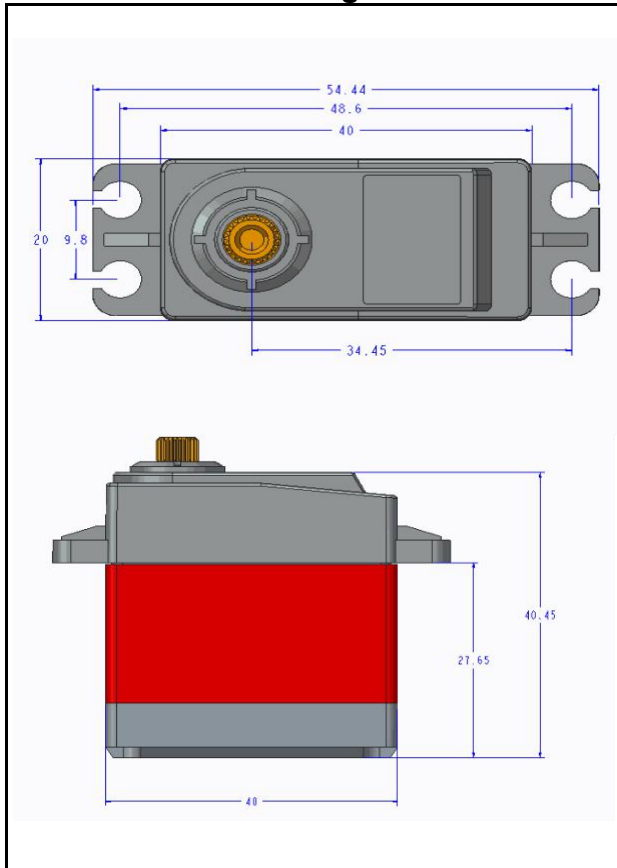
### 4.电气特性 Electrical Specification

No.	工作电压 Operat voltage	4.8V	7.2V
4.1	静态电流 Idle current	mA	mA
4.2	空载转速 No load speed	0.18sec/60°	0.14sec/60°
4.3	空载电流 Runnig current	140mA	200mA
4.4	堵转扭矩 Peak stall torque	23.5kg.cm	26.8kg.cm
4.5	堵转电流 Stall current	2600mA±10%	3400mA±10%
4.6	工作电压范围 Working voltage range	4.8-7.2V	

### 5.控制特性 Control Specification

No.	Item	Specifcation
5.1	控制信号 Command signal	Pulse width modification
5.2	放大器类型 Amplifier type	Digital controller
5.3	脉冲宽度范围 Pulse width range	500~2500usec
5.4	中点位置 Neutral position	1500usec
5.5	旋转角度 Running degree	180° ±3° (when 500~2500usec)
5.6	死区宽度 Dead band width	5 usec
5.7	旋转方向 Rotating direction	Counterclockwise (when 1000~2000usec)

## 6.外观尺寸The Drawings:



## 导线颜色及定义The Wire and plug:

