



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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产品名称: 6V 6公斤模拟舵机 Product Name: 6V 6kg. cm Analog Servo

产品型号 Model No. FS5106B

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: 40.8mm B: 20.1mm C: 38mm D: 49.5mm
3-2	重量 Weight	40g ±0.2 (1.41oz)
3-3	齿轮类型 Gear type	Plastic Gear (Nylon & POM)
3-6	机构极限角度 Limit angle	200° ±5°
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	0.18sec/60°	0.16 sec/60°
4-3*	空载电流 Running current (at no load)	160 mA	190 mA
4-4	堵转扭矩 Peak stall torque	5kg. cm	6kg. cm
		69.56oz. in	83.47oz. in
4-5	堵转电流 Stall current	980 mA	1100mA

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	700~2300 $\mu$ sec
5-4	中立位置 Neutral position	1500 $\mu$ sec
5-5	旋转角度 Runni ng degree	180° ( $\pm 5^\circ$ ) (when 700~2300 $\mu$ sec)
5-6	死区宽度 Dead band width	5 $\mu$ sec
5-7	旋转方向 Rot at ing di recti on	Count er cl ockwi se (when 1000~2000 $\mu$ sec)

6. 外形图 The Drawings

