



SunFounder Micro Servo 9g SF0180

1. Apply Environmental Condition:

No.	Item	Specification
1-1	Storage Temperature Range	-10°C ~ 60°C
1-2	Operating Temperature Range	-10°C 60°C
1-3	Operating Voltage Range	4.8V~6.0V

2. Standard Test Environment:

2-1	Standard Test Environment	Every characteristic of the inspect must be normal temperature and humidity carry out the test, temperature $25\pm 5^{\circ}\text{C}$ and relative humidity $65\pm 10\%$ of judgment made in accordance with this specification standard testing conditions.
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3. Appearance Inspection:

No.	Item	Specification
3-1	Outline Drawing	Dimension see the last page
3-2	Appearance	No damage which affects functions allowed.

4. Electrical Specification(Function of the Performance):

No.	Item	4.8V	6.0V
4-1	Operating speed(at no load)	0.12 Sec/60°	0.09 Sec/60°
4-2	Running current(at no load)	140 m A	200 m A
4-3	Stall torque(at locked)	2.0 kg-cm	2.5 kg-cm
4-4	Stall current(at locked)	520 m A	700 m A

4-5	Idle current(at stopped)	5 m A	5 m A
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Note: Item 4-2 definition is average value when the servo running with no load.

5. Mechanical Specification:

No.	Item	Specification
5-1	Overall Dimensions	See the drawing
5-2	Limit angle	200°±10°
5-3	Weight	9 grams(without servo horn and screw)
5-4	Connector wire gauge	#28 AWG
5-5	Connector wire length	190±5 mm
5-6	Horn gear spline	21T
5-7	Horn type	1/Cross, Two blade, One blade, Circle. 2/ Cross, Two blade, One blade.

6. Control Specification:

No.	Item	Specification
6-1	Control system	Pulse width modification
6-2	Operating travel	90°±5°
6-3	Neutral position	1500 μ sec
6-4	Dead band width	5 μ sec
6-5	Rotating direction	Clockwise(When 1000~2000μ sec)
6-6	Pulse width range	750~2250 μ sec
6-7	Maximum travel	Approx 140 °(When 750~2250 μ sec)

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