

1. Apply Environmental Condition:

No.	Item	Specification
1-1	Storage Temperature Range	-20°C ~ 60°C
1-2	Operating Temperature Range	-10°C ~ 50°C
1-3	Operating Voltage Range	4.5V ~ 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±5°C and relative humidity 65±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 attachment
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)	0.20 sec/60°	0.16 sec/60°
4-2	Running current (at no load)	100 mA	120 mA
4-3	Stall torque (at locked)	14.0 kg-cm	18.0 kg-cm
4-4	Stall current (at locked)	4000 mA	5000 mA
4-5	Idle current (at stopped)	5 mA	5 mA

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	53.5 ± 1 grams (without servo horn)
5-4	Connector wire gauge	# 22 AWG
5-5	Connector wire length	250 ±5 mm
5-6	Horn gear spline	ψ6*ψ5.2*25T
5-7	Horn type	Cross , Disk , Star

6.Control Specification :

No.	Item	Specification
6-1	Control system	Pulse width modification
6-2	Amplifier type	Digital Controller
6-3	Operating travel	108°(when1000 →2000 μsec)
6-4	Neutral position	1500 μsec
6-5	Dead band width	3 μsec
6-6	Rotating direction	Counterclockwise (when1500→2000 μsec)
6-7	Pulse width range	800→2200 μsec
6-8	Maximum travel	Approx 130°(when900 →2100 μsec)

