

### 1. 使用環境條件

Apply Environmental Condition :

No.	Item	Specification
1-1	保存溫度 Storage Temperature Range	-20°C ~ 60°C
1-2	操作溫度 Operating Temperature Range	-10°C ~ 50°C
1-3	操作電壓 Operating Voltage Range	4.5V ~ 7.2V

### 2. 測試環境

Standard Test Environment :

2-1	測試環境 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. 外觀檢查

Appearance Inspection :

No.	Item	Specification
3-1	外觀尺寸 Outline Drawing	Dimension see the attachment
3-2	外觀 Appearance	No damage which affects functions allowed

#### 4. 電氣特性

Electrical Specification (Function of the Performance) :

No.	Item	4.8V	6.0V
4-1	空載轉速 Operating speed (at no load)	0.22 sec/60°	0.17 sec/60°
4-2	空載電流 Running current (at no load)	100 mA	120 mA
4-3	停止扭力 Stall torque (at locked)	3.2 kg-cm	4.1 kg-cm
4-4	停止電流 Stall current (at locked)	800 mA	1000 mA
4-5	待機電流 Idle current (at stopped)	5 mA	5 mA

Note: Item 4-2 definition is average value when the servo running with no load

#### 5. 機械特性

Mechanical Specification :

No.	Item	Specification
5-1	外觀尺寸 Overall Dimensions	See the drawing
5-2	機構極限角度 Limit angle	200° ± 5°
5-3	重量 Weight	40 ± 1 grams (without servo horn)
5-4	導線規格 Connector wire gauge	# 26 AWG
5-5	導線長度 Connector wire length	300 ± 5 mm
5-6	舵片規格 Horn gear spline	25T/ φ 5.97
5-7	舵片種類 Horn type	Cross , Disk , Star

## 6. 控制特性

Control Specification :

No.	Item	Specification
6-1	控制系統 Control system	Pulse width modification
6-2	放大器種類 Amplifier type	Digital controller
6-3	操作角度 Operating travel	120° (when 1000→2000 μsec)
6-4	中立位置 Neutral position	1500 μsec
6-5	脈波訊號虛位 Dead band width	5 μsec
6-6	旋轉方向 Rotating direction	Counterclockwise (when 1000→2000 μsec)
6-7	脈波寬度範圍 Pulse width range	800→2200 μsec
6-8	可作動角度範圍 Maximum travel	Approx 164° (when 800→2200 μsec)

