

# **Metal Gear Digital Servo**

## **Part No. LS-8101F**

### 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	5V - 7.2V

### 2. Standard Test Environment

No.	Item	Specification
2-1	Standard Test Environment	Any test must be under normal temperature and humidity. Temperature: $25 \pm 5^{\circ}\text{C}$ Humidity: $65 \pm 10\%$ , according to the standard to judge.

### 3. Appearance Inspection

No.	Item	Specification
3-1	Outline Drawing	40.8*20.1*37.6
3-2	Appearance	

### 4. Electrical Specification (Function of the Performance)

No.	Item	6V	7.2V
4-1	Operating speed (at no load)	0.96 sec / $360^{\circ}$	0.84 sec / $360^{\circ}$
4-2	Running current (at no load)	400 mA	500 mA
4-3	Stall torque (at locked)	12 kg - cm,	13kg - cm
4-4	Stall current (at locked)	2.7A	2.8A
4-5	Idle current (at stopped)	4 mA	5 mA

## 5. Mechanical Specification

No.	Item	Specification
5-1	Overall Dimensions	40.8*20.1*37.6
5-2	Limit angle	$180^\circ \pm 10^\circ$
5-3	Weight	56± 1 g
5-4	Connector wire gauge	# 28 PVC
5-5	Connector wire length	300 ± 5 mm
5-6	Horn gear spline	25T/ψ 5.90
5-7	Horn type	disc
5-8	Reduction ratio	347:1

## 6. Mechanical Specification

