

SHENZHEN SKY STAR TECHNOLOGY CO., LTD

Data Sheet of MG996 Digital Servo Motor

Products Specification

Products Name:MG996 Digital Servo

Products No.

1.Apply Environmental Conditon

No.	Item	Specifcation
1.1	Storage Temperature Range	-30°C~80°C
1.2	Operating Temperature Range	-25°C~70°C

2.Standard Test Environment

No.	Item	Specifcation
2.1	Temperature Range	-25°C~70°C
2.2	Humidity Range	65%±10%

3. Mechanical Specification

No.	Item	Specifcation
3.1	Size	40.5*20*39.5mm
3.2	Weight	56g±5%
3.3	Gear type	5 Plastic,
3.4	Limit angle	200°±5°
3.5	Bearing	2BB
3.6	Horn gear spline	25T Diameter : 6mm
3.7	Horn type	Plastic, POM
3.8	Case	Engineering plastics(PBT)
3.9	Connector wire	320mm±5mm
3.10	Motor	Carbon brush motor
3.11	Splash water resistance	No

4.Electrical Specification

No.	Operat voltage	4.8V	7.4V
4.1	Idle current	mA	mA
4.2	No load speed	0.17sec/60°	0.13sec/60°
4.3	Runnig current	160mA	170mA
4.4	Peak stall torque	13.5kg.cm	15.2kg.cm
4.5	Stall current	1800mA±10%	2200mA±10%

5. Control Specification

No.	Item	Specifcation
5.1	Command signal	Pulse width modification
5.2	Amplifier type	Digital controller
5.3	Pulse width range	500~2500usec
5.4	Neutral position	1500usec
5.5	Running degree	180°±5°(when 500~2500usec)
5.6	Dead band width	8 usec
5.7	Rotating direction	Counterclockwise (when 1000~2000usec)



