

SHENZHEN SKY STAR TECHNOLOGY CO., LTD

Data Sheet of TS90M Digital Servo Motor

Products Specification

Products Name:TS90M Analog servo motor

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	22.5*12.2*26.8mm
3.2	Weight	13.5g±5%
3.3	Gear type	5 Metal
3.4	Limit angle	360°
3.5	Bearing	NO
3.6	Horn gear spline	20T Diameter : 4.9mm
3.7	Horn type	Plastic, POM
3.8	Case	Engineering plastics(PBT)
3.9	Connector wire	250mm±5mm
3.10	Motor	Carbon brush motor
3.11	Splash water resistance	No

4.Electrical Specification

No.	Operat voltage	4.8V	6.0V
4.1	Idle current	<40mA	
4.2	No load speed	0.11sec/60°	0.09sec/60°
4.3	Runnig current	90mA	150mA
4.4	Peak stall torque	1.8kg.cm	2.0kg.cm
4.5	Stall current	750mA±10%	860mA±10%

5.Control Specification

No.	Item	Specifcation
5.1	Command signal	Pulse width modification
5.2	Amplifier type	Analog controller
5.3	Pulse width range	500~2500usec
5.4	Neutral position	1500usec
5.5	Running degree	180°±3°(when 500~2500usec)
5.6	Dead band width	5 usec
5.7	Rotating direction	Counterclockwise (when 1000~2000usec)

