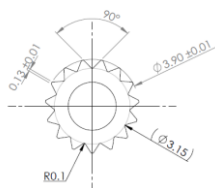
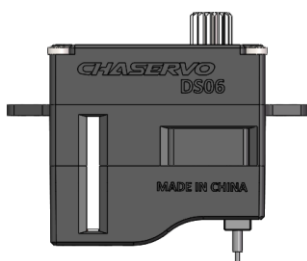
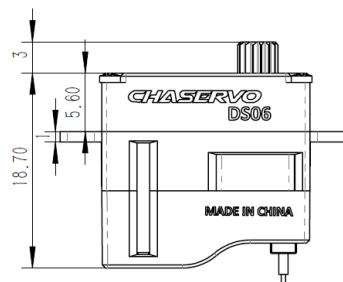
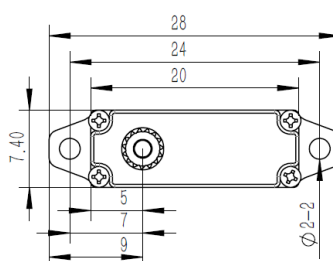


# DS06 Technical Specification



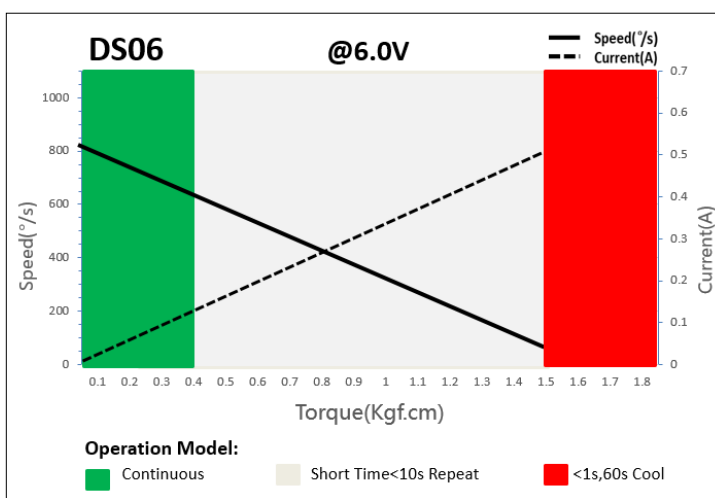
15T 4mm Output Shaft Spline



## 1. Operating Data

DS06	
Rated Voltage	DC6.0V
Voltage Range	DC3.8V-8.4V
Torque	0.8Kgf.cm@3.8V
	1.5Kgf.cm@6.0V
	1.8Kgf.cm@8.4V
Speed	0.12sec/60°@3.8V
	0.08sec/60°@6.0V
	0.07sec/60°@8.4V
Stalling Current	0.58A@6.0V
Rated Torque	0.4kgf.cm@6.0V
Rated Current	0.22A@6.0V
Rated Speed	0.20sec/60°@6.0V
Working Frequency	1520us/20KHz
Default Travel Angle	±60° = 120° Total
Temperature Range	-10°C.....+65°C
Soft Start	Programable
Programable	Yes
Case Material	PA66
Motor Type	Coreless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Potentiometer
Ball Bearing	2BB
Case Dimensions	20mm*7.4mm*18.7mm±0.
Weight	6g±10%

## 2. Performance



## 3. Command signal PWM Command Interface

Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Lengths	900us-2100us
Pulse Lengths for Position -60°/0°/+60°	1000us/1500us/2000us

## 4. Electrical Connection

3 2 1	Pin Assignment			
	1	Orange	Signal	PWM Command
	2	Red	DC+	Supply Voltage
	3	Brown	DC-	Supply Ground