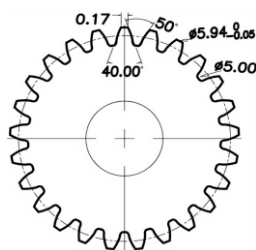
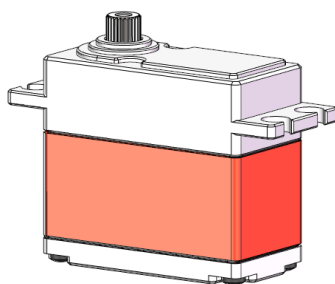
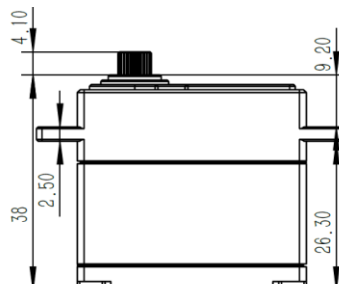
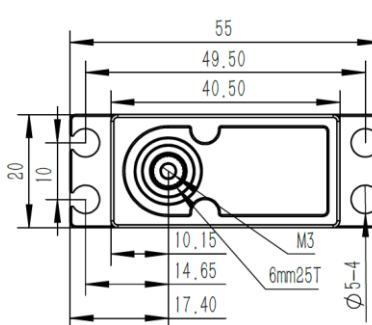


### DS735MG Technical Specification



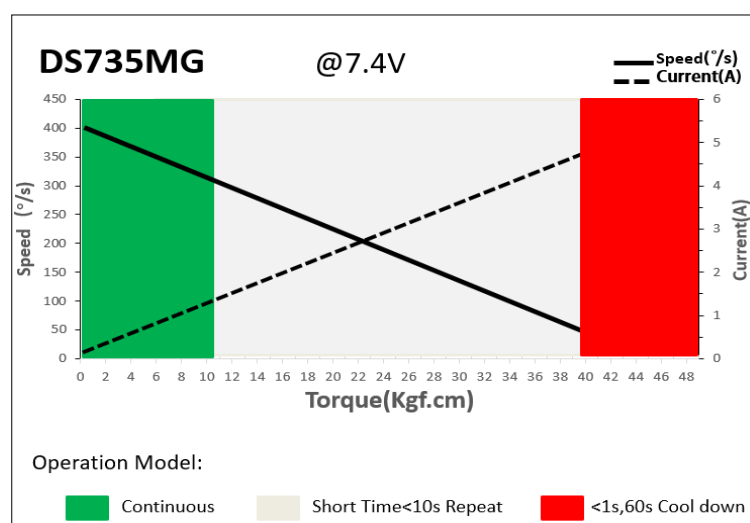
6mm\_25T Output Shaft Spline



### 1. Operating Data

Rated Voltage	DC7.4V
Voltage Range	DC6.0V-8.4V
Stalling Torque	35.0 Kgf.cm@6.0V
	40.0 Kgf.cm@7.4V
	45.0 Kgf.cm@8.4V
No-load Speed	0.18sec/60°@6.0V
	0.16sec/60°@7.4V
	0.14sec/60°@8.4V
Working Frequency	1520us/333Hz
Default Travel Angle	±50°=100° Total
Temperature Range	-10℃.....+65℃
Soft Start	Programmable
Programmable	Yes
Case Material	Aluminum Alloy
Motor Type	Coreless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Potentiometer
Ball Bearing	2BB
Case Dimensions	40.5*20*38mm ±0.2mm
Weight	70g±10%

### 2. Performance



### 3. PWM Command signal

Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Lengths	900us-2100us
Pulse Lengths for Position	1000us/1500us/2000us -50° 0°/+50°

### 4. Electrical Connection

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