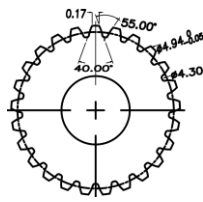
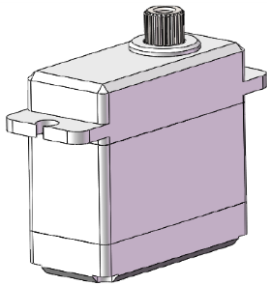
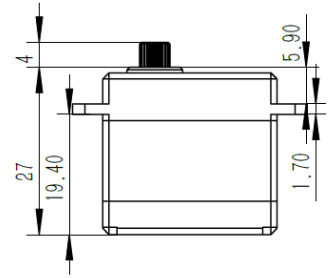
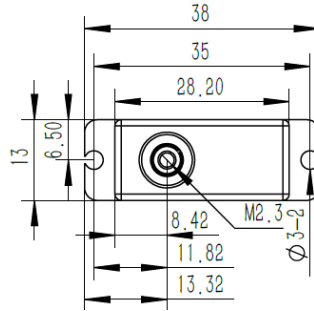


# A13-610 V8.0 Technical Specification



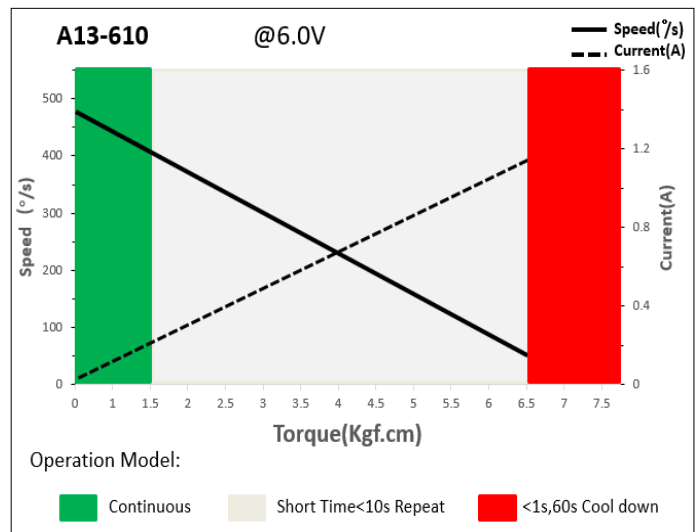
25T-5mm Output Shaft Spline



## 1. Operating Data

Rated Voltage	DC7.4V
Voltage Range	DC4.8V-8.4V
Torque	5.5Kgf.cm@4.8V
	6.5Kgf.cm@6.0V
	8.0Kgf.cm@7.4V
	9.0Kgf.cm@8.4V
Speed	0.13sec/60°@4.8V
	0.12sec/60°@6.0V
	0.11sec/60°@7.4V
	0.10sec/60°@8.4V
Working Frequency	1520us/333Hz
Default Travel Angle	±70° = 140° 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	28.2*13*27mm±0.2mm
Weight	24g±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	800us-2200us
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