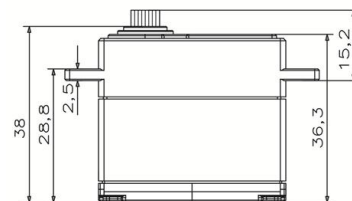
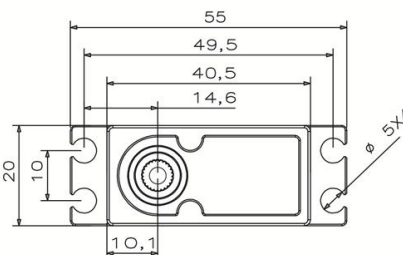
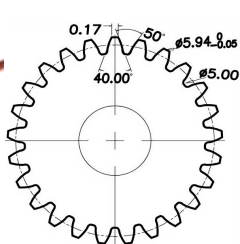


X20-9650 Technical Specification

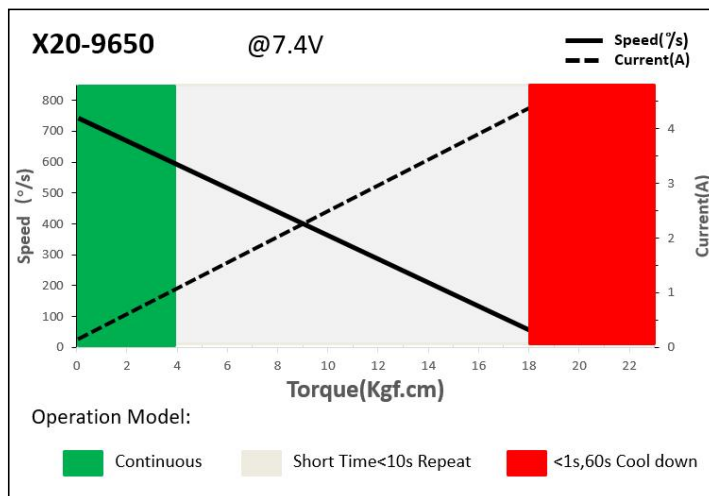


25T 6mm Output Shaft Spline

1. Operating Data

	X20-9650
Rated Voltage	DC7.4V
Voltage Range	DC6.0V-8.4V
Stalling Torque	16Kgf.cm@6.0V
	18Kgf.cm @7.4V
	20Kgf.cm @8.4V
No-load Speed	0.09sec/60°@6.0V
	0.08sec/60°@7.4V
	0.07sec/60°@8.4V
Working Frequency	1520us/333Hz
Default Travel Angle	±50°=100° Total
Temperature Range	-20°C+65°C
Soft Start	Programmable
Programmable	Yes
Case Material	Aluminum Alloy
Motor Type	Brushless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Potentiometer
Ball Bearing	2BB
Case Dimensions	40.5mm*20mm*38mm±0.2mm
Weight	70g±10%

2. Performance



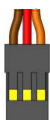
3. Command signal

PWM Command Interface

4. Electrical Connection

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°

Pin Assignment				
1	Orange	Signal	PWM Command	



	2	Red	DC+	Supply Voltage
	3	Brown	DC-	Supply Ground