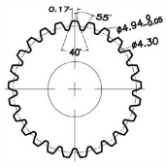
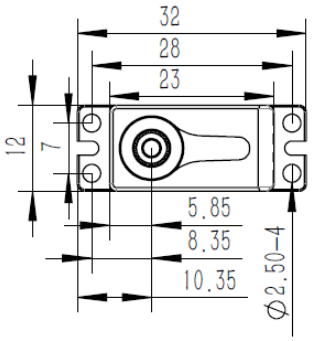
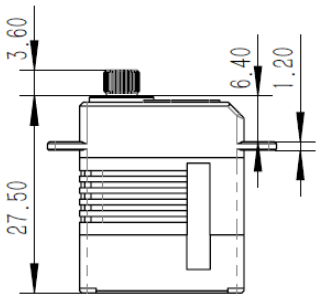
X12-508 V8.0 Technical Specification





25T 5mm Output Shaft Spline

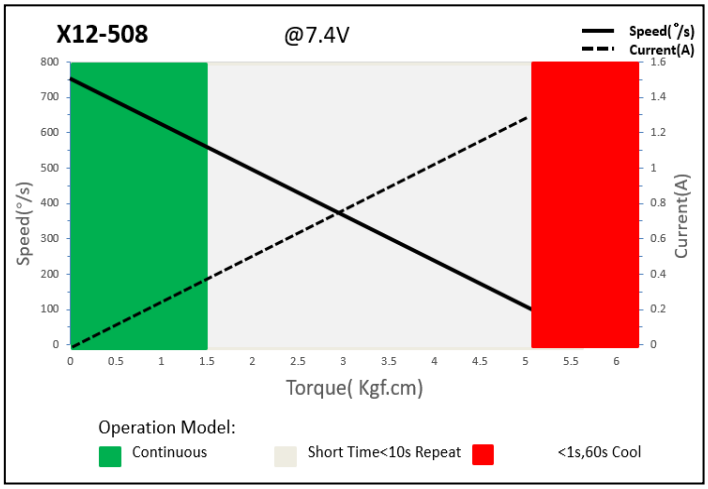




1. Operating Data

Rated Voltage	DC7.4V
Voltage Range	DC6.0V-8.4V
Torque	4.2Kgf.cm@6.0V
	5.2Kgf.cm@7.4V
	6.2Kgf.cm@8.4V
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	-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	23*12*27.5mm±0.2mm
Weight	20g±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	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