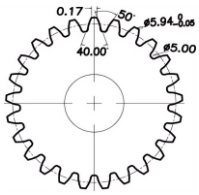
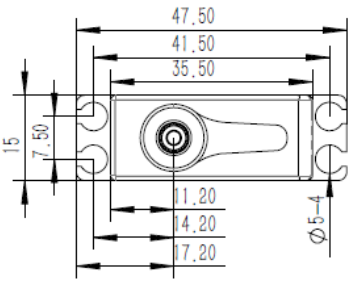
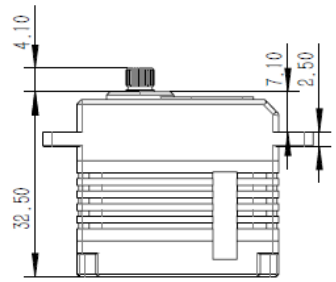
# X15-1208 V8.0 Technical Specification



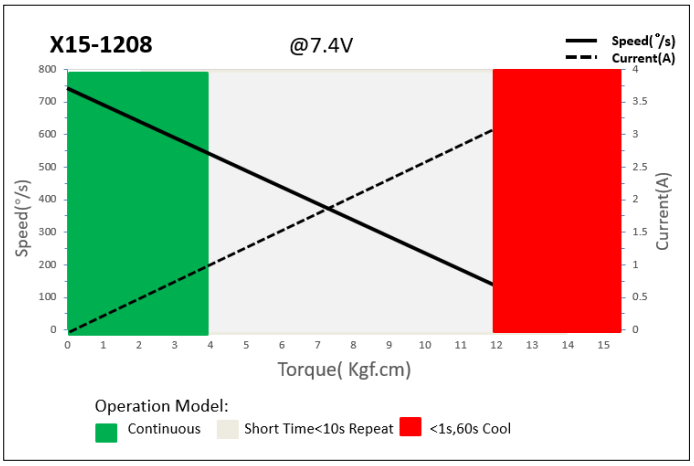




25T 6mm Output Shaft Spline

## 1. Operating Data

| | |
|---|---|
| Rated Voltage | DC7.4V |
| Voltage Range | DC6.0V-8.4V |
| Torque | 9.8Kgf.cm@6.0V |
| | 12.0Kgf.cm@7.4V |
| | 13.5Kgf.cm@8.4V |
| Speed | 0.10sec/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 | 35.5*15*32.5mm±0.2mm |
| Weight | 40g±10% |

## 2. Performance




## 3. Command signal

### PWM Command Interface

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

## 4. Electrical Connection




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