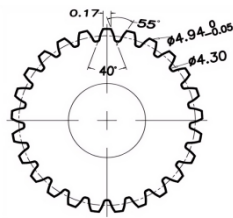
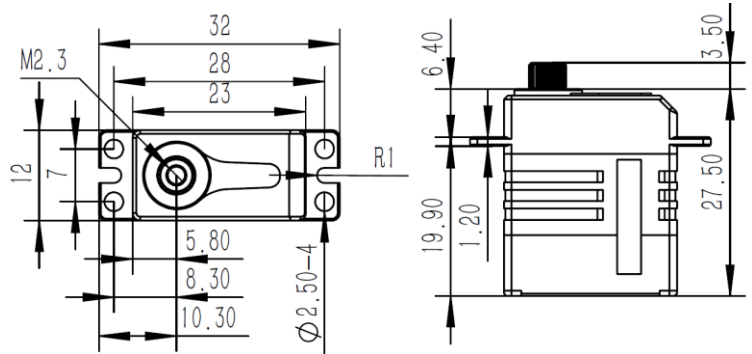


X12-708 Technical Specification



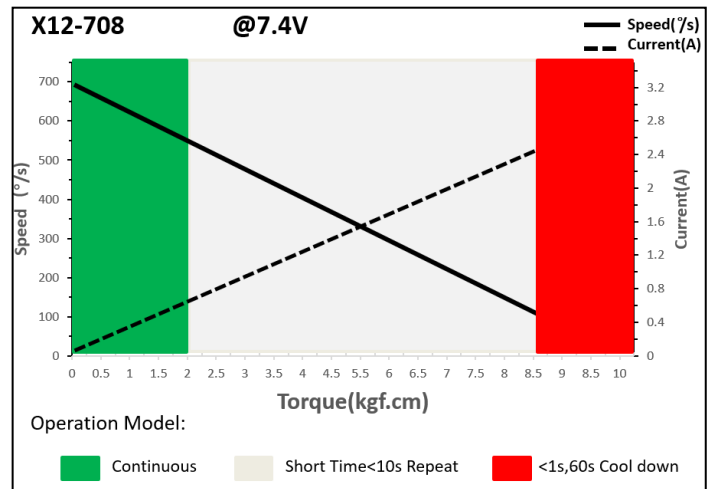
25T 5mm Output Shaft Spline



1. Operating Data

| | |
|----------------------|--------------------|
| Rated Voltage | DC7.4V |
| Voltage Range | DC6.0V-8.4V |
| Torque | 6.3Kgf.cm@6.0V |
| | 8.6Kgf.cm@7.4V |
| | 9.3Kgf.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 | -20℃ +65℃ |
| 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 | 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 | Black(White mark) | Signal | PWM Command |
| | 2 | Black(Red mark) | DC+ | Supply Voltage |
| | 3 | Black | DC- | Supply Ground |