

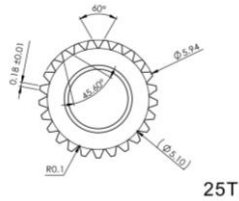
## HV95 Technical Specification



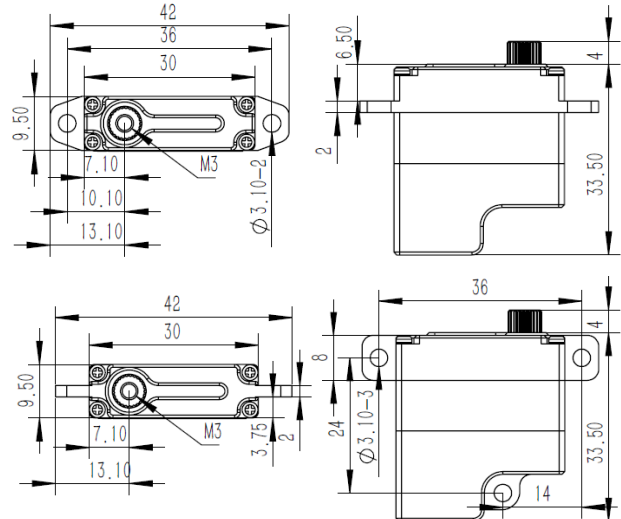
HV95



HV95H



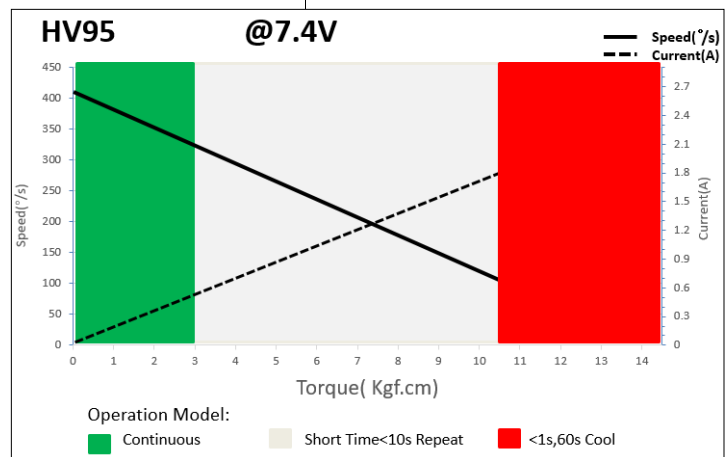
25T- 6mm  
Output Shaft Spline



### 1. Operating Data

|                      |                     |
|----------------------|---------------------|
| Rated Voltage        | DC7.4V              |
| Voltage Range        | DC4.8V-8.4V         |
| Torque               | 6.5Kgf.cm@4.8V      |
|                      | 8.5Kgf.cm@6.0V      |
|                      | 10.5Kgf.cm@7.4V     |
|                      | 11.5Kgf.cm@8.4V     |
| Speed                | 0.21sec/60°@4.8V    |
|                      | 0.17sec/60°@6.0V    |
|                      | 0.15sec/60°@7.4V    |
|                      | 0.12sec/60°@8.4V    |
| Stalling Current     | 0.90A@4.8V          |
|                      | 1.16A@6.0V          |
|                      | 1.32A@7.4V          |
|                      | 1.58A@8.4V          |
| Working Frequency    | 1520us/333Hz        |
| Default Travel Angle | ±50° =100° Total    |
| Temperature Range    | -10°C.....+65°C     |
| 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      | 30*9.5*33.5±0.2(mm) |
| Weight               | 20g±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                                |
|                            | -50° 0°/+50°                                        |

### 4. Electrical Connection

| Pin Assignment | Pin Assignment |        |        |
|----------------|----------------|--------|--------|
|                | 1              | Orange | Signal |
|                | 2              | Red    | DC+    |
|                | 3              | Brown  | DC-    |