

# 1 x Waterproof Digital Servo DC5535 Speed Metal Gear Digital Servo

## 35KG/.09S for 1/8 1/10 Scale RC Cars

### Specifications:

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| Brand:                       | E-power (DFROBOT)                                                            |
| Model:                       | DC5535                                                                       |
| Ball Bearing:                | 2BB                                                                          |
| Diver type:                  | Mos Drive                                                                    |
| Motor Type:                  | Dc Motor                                                                     |
| Potentiometer Type:          | Direct Drive                                                                 |
| Amplifier Type:              | Digital Control                                                              |
| Dead band width:             | 1 usec                                                                       |
| Gear Material:               | Metal Gear                                                                   |
| Case Material:               | Aluminum Case                                                                |
| Operation Voltage Range:     | 4.8V -8.4V                                                                   |
| Operation Temperature Range: | -20C°~ +60C°                                                                 |
| Control Angle:               | 180°/270°/360° Optional                                                      |
| Direction:                   | Re-clock wise/ Pulse Travel 500→2500 μsec                                    |
| Control System:              | PWM Control (1500usec in the central point)                                  |
| Circle:                      | >80000 times without load                                                    |
| Operation Travel:            | 60°±1                                                                        |
| Limit angle:                 | 180°± 1/270°± 1 Optional                                                     |
| Dimensions:                  | 40x20x40.50mm                                                                |
| Weight:                      | 78g (without servo horn)                                                     |
| Standing Torque:             | 0.2sec/60°,28kg-cm-@6V ;0.14sec/60°,31kg-cm-@7.4V ;0.11sec/60°,35kg-cm-@8.4V |
| Idle Current:                | 270mA-@6V ; 320mA-@7.4V; 350mA-@8.4V                                         |
| Running Current:             | 2200mA-@6V ; 2800mA-@7.4V; 3200mA-@8.4V                                      |
| Connector Wire Length:       | 300MM JR JST                                                                 |
| Connector Wire Gauge:        | 22AWG                                                                        |
| Wire Info (Brown):           | Negative                                                                     |
| Wire Info (Red):             | Positive                                                                     |
| Wire Info (Black):           | Negative                                                                     |
| Wire Info (Yellow):          | S Single                                                                     |

| Product Parameters                 |                                             |             |             |
|------------------------------------|---------------------------------------------|-------------|-------------|
| Brand (品牌)                         | E-Power                                     |             |             |
| Product Model(产品型号)                | DC5535                                      |             |             |
| Control System(控制系统)               | PWM Control (1500usec in the central point) |             |             |
| Operation Voltage Range (工作电压)     | 4.8V -8.4V                                  |             |             |
| Operation Temperature Range (工作温度) | -20C°~ +60C°                                |             |             |
| Circle (寿命)                        | >80000 times without load                   |             |             |
| Operation Travel (操作角度)            | 60°±1                                       |             |             |
| Limit Angle (极限角度)                 | 180°± 1/270°± 1 Optional                    |             |             |
| Direction (信号脉宽范围)                 | Re-clock wise/ Pulse Travel 500→2500 μsec   |             |             |
| Diver Type (马达驱动)                  | Mos Drive                                   |             |             |
| Motor Type (马达类型)                  | Dc Motor                                    |             |             |
| Potentiometer Type (电位器处理方式)       | Direct Drive                                |             |             |
| Amplifier Type (信号处理方式)            | Digital Control                             |             |             |
| Dimensions (规格)                    | 40x20x40.50mm                               |             |             |
| Weight: (重量)                       | 78g (without servo horn)                    |             |             |
| Test Voltage: (测试电压)               | At 6V                                       | At 7.4V     | At 8.4V     |
| Standing Torque (最大扭力)             | 28kg-cm                                     | 31kg-cm     | 35kg-cm     |
| Speed (空载转速)                       | 0.2sec/60°                                  | 0.14sec/60° | 0.11sec/60° |
| Idle Current (空载电流)                | 270mA                                       | 320mA       | 350mA       |
| Running Current (负载电流)             | 2200mA                                      | 2800mA      | 3200mA      |
| Dead Band width (死区)               | 2usec                                       | 2usec       | 2usec       |
| Ball Bearing (轴承)                  | 2BB                                         |             |             |
| Gear Material (齿轮材料)               | Metal Gear                                  |             |             |
| Case Material (舵机外壳材料)             | Aluminum Case                               |             |             |
| Connector Wire Length (线长)         | 300MM JR JST                                |             |             |
| Connector Wire Gauge (线材型号)        | 22AWG                                       |             |             |
| Wire Info (Brown)                  | Negative                                    |             |             |
| Wire Info (Red)                    | Positive                                    |             |             |
| Wire Info (Black)                  | Negative                                    |             |             |
| Wire Info (Yellow)                 | S Single                                    |             |             |

