

产品名称: 8.4V20公斤高压数码舵机 Product Name: 8.4V20kg-cm Hight Voltage BL Servo

产品型号 Item No: OCS-202HV

### 1. 使用环境条件 Apply Environmental Condition

| No. | Item                             | Specification |
|-----|----------------------------------|---------------|
| 1-1 | 存储温度 Storage Temperature Range   | -20℃~70℃      |
| 1-2 | 运行温度 Operating Temperature Range | -15℃~65℃      |

### 2. 测试环境 Standard Test Environment

| No. | Item                 | Specification |
|-----|----------------------|---------------|
| 2-1 | 温度 Temperature range | 25℃ ±5℃       |
| 2-2 | 湿度 Humidity range    | 65%±10%       |

### 3. 机械特性 Mechanical Specification

| No.  | Item                 | Specification              |
|------|----------------------|----------------------------|
| 3-1  | 尺寸 Size              | 41*20.5*28.5 mm            |
| 3-2  | 重量 Weight            | 67g no including accessory |
| 3-3  | 齿轮类型 Gear type       | Stainless Steel            |
| 3-6  | 机构极限角度 Limit angle   | No                         |
| 3-7  | 轴承 Bearing           | 2 Ball bearings            |
| 3-8  | 出力轴 Horn gear spline | 25T- φ 5.96mm              |
| 3-9  | 摆臂 Horn type         | Plastic, POM               |
| 3-10 | 外壳 Case              | Aluminium CNC              |
| 3-11 | 舵机线 Connector wire   | 300mm 3P                   |
| 3-12 | 马达 Motor             | Coreless motor             |
| 3-13 | 防水性能 waterproof      | Splash-proof               |

### 4. 电气特性 Electrical Specification (Function of the Performance)

| No. | 工作电压 Operating Voltage Range    |              | 6.0 V        |
|-----|---------------------------------|--------------|--------------|
| 4-1 | 空载速度 No load speed              |              | 0.12 sec/60° |
| 4-2 | 空载电流 Runnig current(at no load) |              | 190 mA       |
| 4-3 | 堵转扭矩 Peak stall torque          |              | 15 kg.cm     |
| 4-4 | 堵转电流 Stall current              |              | 3.5 A        |
|     |                                 |              |              |
| No. | 工作电压 Operating Voltage Range    | 7.4 V        | 8.4 V        |
| 4-1 | 空载速度 No load speed              | 0.09 sec/60° | 0.07 sec/60° |
| 4-2 | 空载电流 Runnig current(at no load) | 220 mA       | 250 mA       |
| 4-3 | 堵转扭矩 Peak stall torque          | 17 kg.cm     | 20 kg.cm     |
| 4-4 | 堵转电流 Stall current              | 4 A          | 5.0 A        |

Note: "\*"definition is average value when the servo runing with no load

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### 5. 控制特性 Control Specification:

| No. | Item                     | Specification                                      |
|-----|--------------------------|----------------------------------------------------|
| 5-1 | 控制信号 Command signal      | PWM                                                |
| 5-2 | 放大器类型 Amplifier type     | Digital Controller                                 |
| 5-3 | 脉冲宽度范围 Pulse width range | 800~2200μsec Customization available               |
| 5-4 | 中立位置 Neutral position    | 1500 μsec                                          |
| 5-5 | 旋转角度 Running degree      | 90° (when 1000~2000 μ sec) Customization available |
| 5-6 | 死区宽度 Dead band width     | 2 μsec                                             |
| 5-7 | 旋转方向 Rotating direction  | CCW (when 1000~2000 μsec)                          |

### 6. 外形图 The Drawings

