产品名称: 6V 2.2kg 数码舵机
Product Name: 6V 2.2kg.cm Digital Servo

产品型号 Model No. FS90MG-CL

1. 使用环境条件 Apply Environmental Condition

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>存储温度 Storage Temperature Range</td>
<td>-30℃〜80℃</td>
</tr>
<tr>
<td>1-2</td>
<td>运行温度 Operating Temperature Range</td>
<td>-15℃〜70℃</td>
</tr>
</tbody>
</table>

2. 测试环境 Standard Test Environment

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1</td>
<td>温度 Temperature range</td>
<td>25℃ ±5℃</td>
</tr>
<tr>
<td>2-2</td>
<td>湿度 Humidity range</td>
<td>65%±10%</td>
</tr>
</tbody>
</table>

3. 机械特性 Mechanical Specification

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1</td>
<td>尺寸 Size</td>
<td>A: 22.5mm B: 12.1mm C: 26.7mm</td>
</tr>
<tr>
<td>3-2</td>
<td>重量 Weight</td>
<td>12.5g</td>
</tr>
<tr>
<td>3-3</td>
<td>齿轮类型 Gear type</td>
<td>Metal Gear</td>
</tr>
<tr>
<td>3-6</td>
<td>机构极限角度 Limit angle</td>
<td>180degree</td>
</tr>
<tr>
<td>3-7</td>
<td>轴承 Bearing</td>
<td>NO Ball bearings</td>
</tr>
<tr>
<td>3-8</td>
<td>出力轴 Horn gear spline</td>
<td>21T</td>
</tr>
<tr>
<td>3-9</td>
<td>摆臂 Horn type</td>
<td>Plastic,POM</td>
</tr>
<tr>
<td>3-10</td>
<td>外壳 Case</td>
<td>ABS</td>
</tr>
<tr>
<td>3-11</td>
<td>舵机线 Connector wire</td>
<td>250mm+alligator clips (Custom Made)</td>
</tr>
<tr>
<td>3-12</td>
<td>马达 Motor</td>
<td>Metal brush motor</td>
</tr>
<tr>
<td>3-13</td>
<td>防水性能 Splash water resistance</td>
<td>NO</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-1*</td>
<td>静态电流 Idle current(at stopped)</td>
<td>5mA</td>
</tr>
<tr>
<td>4-2*</td>
<td>空载速度 No load speed</td>
<td>0.10sec/60degree</td>
</tr>
<tr>
<td>4-3*</td>
<td>空载电流 Runnig current(at no load)</td>
<td>190 mA</td>
</tr>
<tr>
<td>4-4</td>
<td>堵转扭矩 Peak stall torque</td>
<td>1.8kg.cm</td>
</tr>
<tr>
<td>4-5</td>
<td>堵转电流 Stall current</td>
<td>700 mA</td>
</tr>
</tbody>
</table>

Note: “*” definition is average value when the servo running with no load
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产品型号 Model No.FS90MG-CL

5. 控制特性  Control Specification:

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-1</td>
<td>控制信号 Command signal</td>
<td>Pulse width modification</td>
</tr>
<tr>
<td>5-2</td>
<td>放大器类型 Amplifier type</td>
<td>Digital comparator</td>
</tr>
<tr>
<td>5-3</td>
<td>脉冲宽度范围 Pulse width range</td>
<td>500～2500μsec</td>
</tr>
<tr>
<td>5-4</td>
<td>中立位置 Neutral position</td>
<td>1500μsec</td>
</tr>
<tr>
<td>5-5</td>
<td>旋转角度 Running degree</td>
<td>180° (when 500～2500 μ sec)</td>
</tr>
<tr>
<td>5-6</td>
<td>死区宽度 Dead band width</td>
<td>8 μsec</td>
</tr>
<tr>
<td>5-7</td>
<td>旋转方向 Rotating direction</td>
<td>CW(when 1500～900 μsec)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CCW(when 1500～2100 μsec)</td>
</tr>
</tbody>
</table>