1. Apply Environmental Condition:

| No. | Item | Specification |
|-----|-----------------------------|---------------|
| 1-1 | Storage Temperature Range | -20°C ~60°C |
| 1-2 | Operating Temperature Range | -10℃~50℃ |
| 1-3 | Operating Voltage Range | 4.5V∼6V |

2. Standard Test Environment:

| 2-1 | Standard Test Environment | Every characteristic of the inspect must be normal temperature and humidity carry out the test , temperature $25\pm5^{\circ}\mathrm{C}$ and relative humidity $65\pm10\%$ of judgment made in accordance with this specification standard testing conditions. |
|-----|---------------------------|---|
|-----|---------------------------|---|

3. Appearance Inspection:

| No. | Item | □pecification |
|-----|-----------------|---|
| 3-1 | Outline Drawing | Dimension see the attachment |
| 3-2 | Appearance | No damage which affects functions allowed |



| Product Name | |
|---------------|---|
| DIGITAL SERVO |) |

4. Electrical Specification (Function of the Performance):

| No□ | Item | 4.8V | 6.0V |
|-----|------------------------------|--------------|--------------|
| 4-1 | Operating speed (at no load) | 0.09 sec/60° | 0.07 sec/60° |
| 4-2 | Running current (at no load) | 200 mA | 220 mA |
| 4-3 | Stall torque (at locked) | 1.3 kg-cm | 1.5 kg-cm |
| 4-4 | Stall current (at locked) | 1000 mA | 1300 mA |
| 4-5 | Idle current (at stopped) | 4 mA | 5 mA |

Note: Item 4-2 definition is average value when the servo running with no load

5. Mechanical Specification:

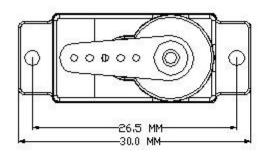
| No. | Item | Specification |
|-----|-----------------------|----------------------------------|
| 5-1 | Overall Dimensions | See the drawing |
| 5-2 | Limit angle | 180°±10° |
| 5-3 | Weight | 25± 1 grams (without servo horn) |
| 5-4 | Connector wire gauge | #26 PVC |
| 5-5 | Connector wire length | 150 ± 5 mm |
| 5-6 | Horn gear spline | $24T/\ \phi\ 5.77$ |
| 5-7 | Horn type | Cross , Disk ,Star |
| 5-8 | Reduction ratio | 1/160 |

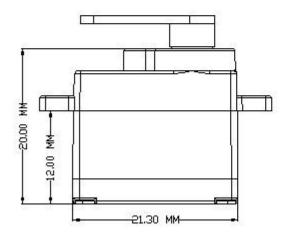
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| | HIGH PERFORMANCE |

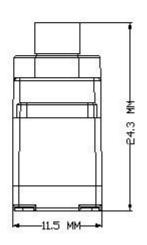
| duct Name | |
|-----------|--------------|
| DIGITAL | SERVO |

6. Control Specification:

| No. | Item | Specification |
|-----|--------------------|--|
| 6-1 | Control system | Pulse width modification |
| 6-2 | Amplifier type | Digital controller |
| 6-3 | Operating travel | 90° (when1000→2000 μ sec) |
| 6-4 | Neutral position | 1500 μ sec |
| 6-5 | Dead band width | $2 \mu \sec$ |
| 6-6 | Rotating direction | Counterclockwise (when1500→2000 μ sec) |
| 6-7 | Pulse width range | 800→2200 μ sec |
| 6-8 | Maximum travel | Approx 165°(when800→2200 μ sec) |









Product Name **DIGITAL SERVO**

Model No.

Version

Page

D65HB V1