



# PRODUCT SPECIFICATION

## B53BHL V2

<b>Control System</b>	Pulse width modulation control		
<b>Refresh Rate</b>	333Hz		
<b>Neutral Position</b>	1520µS		
<b>Signal Mode</b>	Digital		
<b>Dead band</b>	2 µSec		
<b>Operating Voltage</b>	4.8V ~ 8.4V		
<b>Operating Temperature</b>	-15C° ~ +70C°		
<b>Bearing</b>	2BB		
<b>Mechanical Angle</b>	220°		
<b>Size</b>	40*20*37.5mm		
<b>Net Weight</b>	69.5g		
<b>Wire</b>	JR 360mm / 22AWG		
<b>Operating Travel</b>	180°±10°		
<b>Signal Range</b>	500 to 2500 µSec		
<b>Stall Torque</b>	21 kg-cm (292 oz-in) @ 4.8V 23 kg-cm (320 oz-in) @ 6.0V 28 kg-cm (389 oz-in) @ 7.4V 31 kg-cm (430 oz-in) @ 8.4V	<b>Unload Current</b> 360mA @ 4.8V 400mA @ 6.0V 450mA @ 7.4V 500mA @ 8.4V	
<b>Operating Speed</b>	0.150sec/60° @ 4.8V 0.125sec/60° @ 6.0V 0.105sec/60° @ 7.4V 0.090sec/60° @ 8.4V	<b>Loading Current</b> 3800mA @ 4.8V 4300mA @ 6.0V 4800mA @ 7.4V 5000mA @ 8.4V	
<b>Direction</b>	<input checked="" type="checkbox"/> CCW <input type="checkbox"/> CW		
<b>Waterproof Level</b>	<input type="checkbox"/> IP65 <input type="checkbox"/> IP67		
<b>Angle Sensor</b>	<input checked="" type="checkbox"/> Potentiometer <input type="checkbox"/> Magnet Angle Sensor		
<b>Motor Type</b>	<input checked="" type="checkbox"/> Brushless <input type="checkbox"/> Coreless <input type="checkbox"/> DC		
<b>Motor Drive</b>	<input checked="" type="checkbox"/> FET Drive <input type="checkbox"/> IC Drive <input type="checkbox"/> Transistor Drive		
<b>Programmable</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>Gear Material</b>	<input checked="" type="checkbox"/> Strength Steel <input type="checkbox"/> Titanium <input type="checkbox"/> Copper <input type="checkbox"/> Plastic		
<b>Horn Gear Spline</b>	<input checked="" type="checkbox"/> 25T-φ5.92mm <input type="checkbox"/> 25T-φ4.94mm <input type="checkbox"/> Other_____		
<b>Case Material</b>	<input type="checkbox"/> AL6061T6 <input checked="" type="checkbox"/> Aluminum + Plastic <input type="checkbox"/> Plastic		
<b>Bearing Material</b>	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic		
<b>Horn Accessories</b>	<input type="checkbox"/> AL6061T6 <input checked="" type="checkbox"/> Plastic		
<b>Wire Color</b>	Negative: <input checked="" type="checkbox"/> Black <input type="checkbox"/> Brown Positive: <input type="checkbox"/> Black <input checked="" type="checkbox"/> Red Signal: <input type="checkbox"/> Grey <input checked="" type="checkbox"/> White <input type="checkbox"/> Orange		

UNIT:MM