



# PRODUCT SPECIFICATION

## A53BULW

<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>	7.4V ~ 17.0V		
<b>Operating Temperature</b>	-15C° ~ +70C°		
<b>Bearing</b>	2BB		
<b>Mechanical Angle</b>	No Limit		
<b>Size</b>	40.8*20.2*30.2mm		
<b>Net Weight</b>	66.5g		
<b>Wire</b>	TYU+JST 300mm / 22AWG		
<b>Operating Travel</b>	180°±10°		
<b>Signal Range</b>	500 to 2500 µSec		
<b>Stall Torque</b>	26.0 kg-cm (361 oz-in) @ 12.0V 26.6 kg-cm (369 oz-in) @ 12.6V 30.0 kg-cm (417 oz-in) @ 14.4V 33.0 kg-cm (458 oz-in) @ 16.0V 34.0 kg-cm (472 oz-in) @ 16.8V	<b>Unload Current</b> 320 mA @ 12.0V 340 mA @ 12.6V 380 mA @ 14.4V 430 mA @ 16.0V 480 mA @ 16.8V	UNIT:MM
<b>Operating Speed</b>	0.105 sec/60° @ 12.0V 0.100 sec/60° @ 12.6V 0.092 sec/60° @ 14.4V 0.085 sec/60° @ 16.0V 0.080 sec/60° @ 16.8V	<b>Loading Current</b> 3200 mA @ 12.0V 3300 mA @ 12.6V 3700 mA @ 14.4V 4100 mA @ 16.0V 4400 mA @ 16.8V	
<b>Direction</b>	<input checked="" type="checkbox"/> CCW <input type="checkbox"/> CW		
<b>Waterproof Level</b>	<input type="checkbox"/> IP65 <input checked="" type="checkbox"/> IP67		
<b>Angle Sensor</b>	<input type="checkbox"/> Potentiometer <input checked="" 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 checked="" type="checkbox"/> AL6061T6 <input 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		