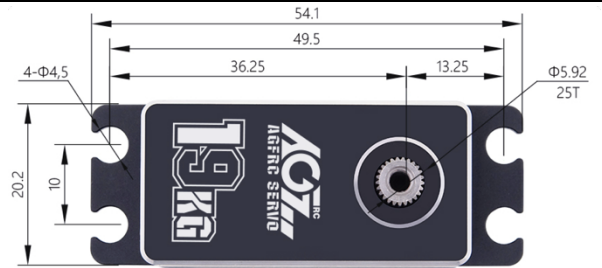




# PRODUCT SPECIFICATION

## SA19 (2S)

<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>	Double Ball Bearings
<b>Mechanical Angle</b>	No Limit
<b>Size</b>	40.8*20.2*26.5mm
<b>Net Weight</b>	54.5g
<b>Wire</b>	TYU 180mm / 22AWG
<b>Operating Travel</b>	180°±10°
<b>Signal Range</b>	500 to 2500 μSec



UNIT:MM

<b>Stall Torque</b>	13 kg-cm (180 oz-in) @ 5.0V 16 kg-cm (222 oz-in) @ 6.0V 18 kg-cm (250 oz-in) @ 7.4V 19 kg-cm (264 oz-in) @ 8.4V	<b>Unload Current</b>	320mA @ 4.8V 380mA @ 6.0V 430mA @ 7.4V 480mA @ 8.4V
<b>Operating Speed</b>	0.11sec/60° @ 5.0V 0.095sec/60° @ 6.0V 0.083sec/60° @ 7.4V 0.073sec/60° @ 8.4V	<b>Loading Current</b>	3300mA @ 4.8V 3600mA @ 6.0V 4100mA @ 7.4V 4200mA @ 8.4V
<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 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 checked="" type="checkbox"/> Black <input type="checkbox"/> Red Signal: <input checked="" type="checkbox"/> Grey <input type="checkbox"/> White <input type="checkbox"/> Orange		