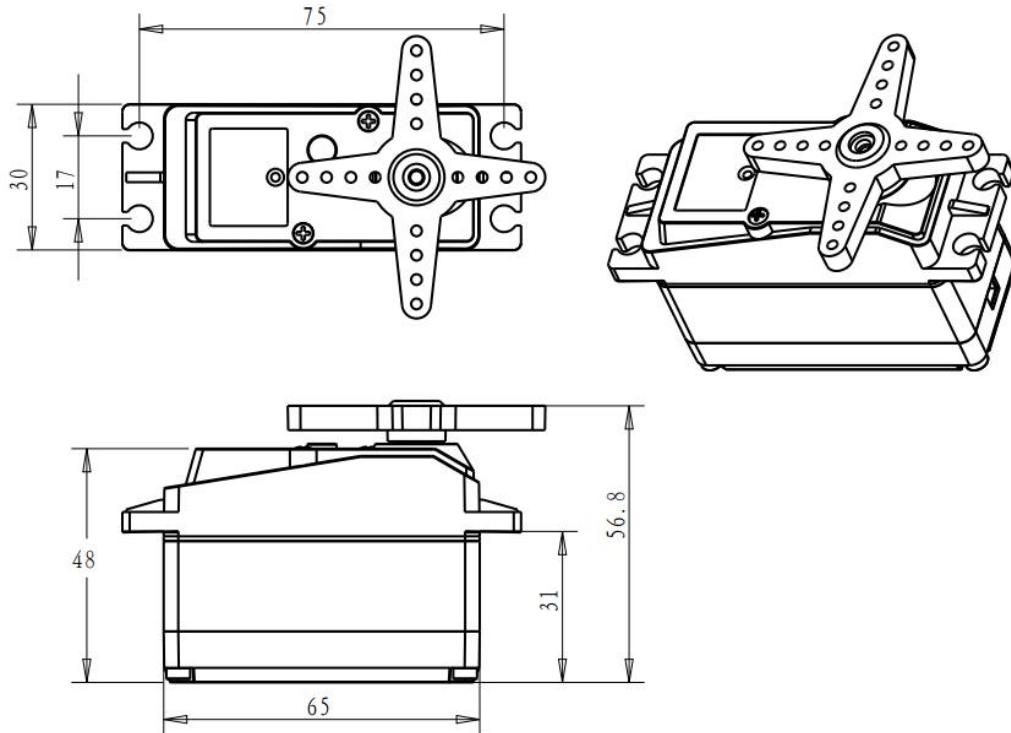




1.Product Name: DS51150-12V (RED)

2.Product Description: 12V 150kg RC Digital Servo

3.Drawing



4.Apply Environmental Condition

No.	Item	Specification
4-1	Storage Temperature Range	-30℃～80℃
4-2	Operating Temperature Range	-15℃～70℃
4-3	Operating Voltage Range	9-12.6V

5.Mechanical Specification

No.	Item	Specification
5-1	Size	65*30*48mm
5-2	Weight	175g
5-3	Gear ratio	357
5-4	Bearing	Double bearing
5-5	Connector wire	300±5mm
5-6	Motor	3-pole(s)
5-7	Waterproof performance	IP67



6.Electrical Specification

No.	Operating Voltage	10V	12V	12.6V
6-1	Idle current(at stopped)	4mA	5mA	6mA
6-2	Operating speed (at no load)	0.24 sec/60°	0.21 sec/60°	0.19sec/60°
6-3	Stall torque (at locked)	150 kg-cm	165 kg-cm	173 kg-cm
6-4	Stall current (at locked)	7.4A	8.0A	8.3A

7.Control Specification

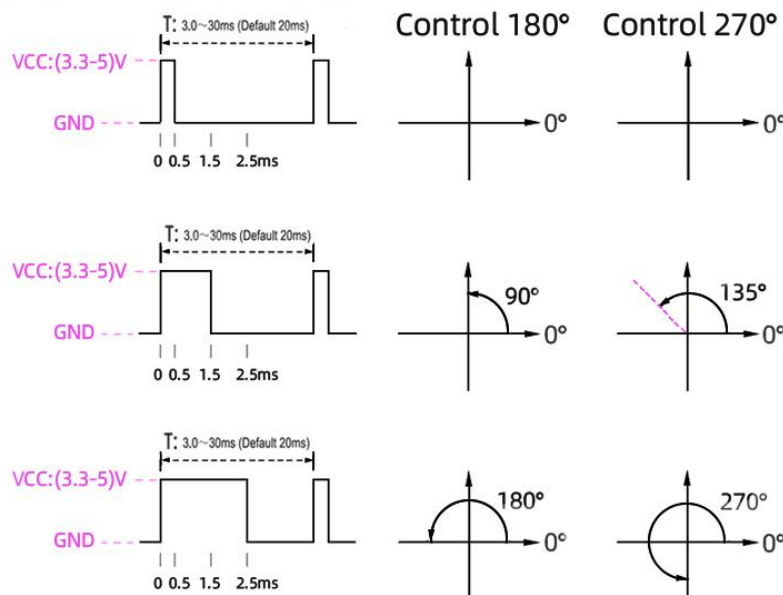
No.	Item	Specification
7-1	Control System	PWM(Pulse width modification)
7-2	Pulse width range	500~2500μsec
7-3	Neutral position	1500μsec
7-4	Running degree	180° or 270° (when 500~2500 μ sec)
7-5	Dead band width	3 μsec
7-6	Operating frequency	50-330Hz
7-7	Rotating direction	Counterclockwise (when 500~2500 μsec)

8. About PWM Control

► Connector: JR-3pin-2.54mm



► Communication Interface: PWM



For more servo datasheet and 3D files, please go to the website to download www.dsservo.com