

SpringRC Standard Servo Motor (SM-S4505B)



The 3209 is a standard size RC servo with mixed gears, double ball bearing and produces 3.5 kg-cm of torque at 4.8V. RC servos are hobbyist remote control servos typically used in radio-controlled models, where they provide actuation for various mechanical systems such as the steering of a car, the flaps on a plane, or the rudder of a boat. These servos are not industrial grade and are not recommended for continuous heavy use.

Comes Packaged With



Product Specifications

| Motor Properties | |
|--------------------------------|------------------------|
| Motor Type | Limited Rotation Servo |
| Range of Rotation | 180B° |
| Maximum Speed at Rated Voltage | 400B°/s |
| Rated Torque | 3.5 kgB·cm |
| Physical Properties | |
| Gear Train Material | 1 Metal, 4 Plastic |
| Bearing Type | Dual Ball Bearing |
| Motor Length | 36 mm |
| Motor Width | 40.3 mm |
| Motor Depth | 20.2 mm |
| Wire Length | 280 mm |
| Weight | 39 g |
| Electrical Properties | |
| Rated Voltage | 5 V DC |

Rated Current (on 1061 controller) 230 mA
Rated Current (on 1066 controller) 250 mA
Stall Current (on 1061 controller) 1.1 A
Stall Current (on 1066 controller) 450 mA

Mechanical Drawing



| A | B | C | D | E |
|--------|--------|--------|------|--------|
| 40.3mm | 20.2mm | 36.0mm | 48.7 | 10.0mm |

Servo Controllers

This servo motor needs to be connected to a servo controller board. If you're looking for higher torque, you should select a servo controller with an external power jack so it doesn't have to rely solely on USB power, which is limited. You can plug this servo directly to any of the boards in the list below by matching the color of the wire with the label on the board. Note that some servos have a white data wire and others have a yellow one- in both cases this wire corresponds to the "W" pin on the servo controllers.