

Operation Description of receiver for 1/64 Hot Wheels R/C

The 1/64 Hot Wheels R/C is a superregenerative receiver operating at 49.860 MHz which is controlled by a LRC circuit. It powered by 2.4 V recharge battery. There a external antenna in the back of the EUT. When received forward/backward signal, it will going forward/backward. When received left/right signal, it will going left/right. When the receiver is switch off and place in charger, the led of charger will turn on. When the led is off, the charging receiver battery is complete.

Refer to the circuit design, the circuit description is listed as follows:

- Q1-Q6, Q8-Q11 and associated circuit act as motor control
- U1 and associated circuit act as encode
- Q7 and associated circuit act as super regenerative