

1. Introduction

- a. Four RC cars can be played individually in same frequency band
- b. Using Timing sharing for data transmission
- c. Using 4 different ID to distinguish from 4 different RC cars
- d. 4 functions including forward, backward, left and right
- e. This device complies with part 15 of the FCC rules,
Operation is subject the following two conditions:
 - 1) This device may not cause harmful interference and.
 - 2) This device must accept any interference received
including interference that may cause undesired operation

2. TX (49MHz)

TX is supplied by a 9V battery and regulate 5V1 to the IC GPRC11A-005C. There is a four position selector SW1 to select different ID for the TX. In the TX, there are four function keys S1, S2, S3, S4, S5 & S6 to control the RC car (left, right, backward, forward1, forward2 & forward3). The modulating signal from IOC1 of GPRC11A-005C will be modulated by carrier frequency 49.86MHz. The modulated signal will be amplified and pass through Q2 & matching network to antenna. The matching network consists of L3, C14, C15 & L4.