

Wah Lung (Shen Zhen)Toys Co.Ltd

project No. : #M0684
Model Name : RC Transporter
Frequency : 27.145MHz, 49.860 MHz
Date : 16 Feb,2008
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(CIRCUIT DESCRIPTION)

CIRCUIT DESCRIPTION:

IN TRANSMIT MODE:

When TX unit is switched "ON", A CW signal is transmitted. The frequency oscillated by Y1 and modulated RF signal output from IC101 GPRC205A pin 5(RFO) is coupled through L3 to antenna.

The low pass filter made up of C15, L4 & C7, which is connected to the antenna. The modulation is provided by IC101. The modulated RF signal will be send out if either SW1, 2, 3 or 4 is pressed.

A 3V Battery supplies energy.

IN RECEIVE MODE:

The RC toys design a ON OFF power switch and.Q1(2SC2712Y) is the Supper regenerator & detector, ZD1 are the voltage regulator;Q14,Q15,R20,C20,D1,L7 are rise voltage circuit. IC1 is the signal decoder. Q4, 5 10 & 11 is the tunnels of the motor driver. Q2, 3, 6, 7, 8, 9, 12 & 13 are the current driver of the two motors. Energy is supplied by 3x1.5V AA size Alkaline battery.

ANTENNA AND GROUND CIRCUITRY.

This unit makes use of an inside antenna, the antenna is inductively coupled, the unit relies on the Ground trace of the printed circuit board. No external ground is provided.

AA 3.0V battery supplies energy.