



Echo Toys Limited

力圖玩具有限公司

Model No: 90345 (22T27)

CIRCUIT DESCRIPTION

In transmit push the switch sw1,Q2 and Q3 output 600Hz signal to modulate the oscillator Q1,Which generates the oscillate of 27.145MHz. This oscillator is the transmitter. The antenna is transformer coupled to the oscillator. Similarly push the switch sw2 ,Q2 and Q3 output 1kHz signal to modulate the oscillator Q1,In receive L1 tuning 27.145Mhz frequency and Q1 are RF amplifier and detector stages. When IC receiver 1kHz signal ,the output pin F will generate current output to made Q2 drive Q4 and Q5 ,these finally drive the motor forward. When IC receiver 600Hz signal ,the output pin B will generate current output to made Q3 drive Q6 and Q7,these finally drive the motor backward.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 17 centimeters long antenna. The antenna is inductively coupled. The unit relies on the ground tract of the printed circuit board. No external ground is provided. Energy is supply by a 9-volt battery.