Application No. : 06031648
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Circuit Description

U1 is a modulation encoder, which provided pulse modulation signal to Q1 (buffer amplifier) and transmit enable signal to Q3 (power switch of Q2 OSC). The 27.14 MHz crystal oscillator drives the base of Q2 the oscillator. The output of Q1 has the matching network consisting of L1, L2 and C1 and C2 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.
U1 is also provided three diffident channel codes, which was selected with SW1. (The receiver must switch to a match code for operation)

Antenna, Ground and Power Source

The antenna consists of a 47cm long metal antenna. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 9Volt ("6F22" size battery x 1) primary battery.

Operation Description

The transmitter is a toy car operating at 27.14 MHz band. The transmitter is powered by a 9Vd.c. battery (6F22) and the transmitting frequency is crystal controlled. There are three joysticks to control the forward reverse motor, the bound motor and director of movement. The operation is achieved by different combinations of form pulse modulating signal on the 27.14 MHz carrier frequency.

Remarks:
The transmitter is a three joysticks transmitter.
The EUT continues to transmit while joystick is being pressed.
It is Three Channel Pulse transmitter, Modulation by IC; and type is Pulse modulation.