Application No.: <u>HM155028</u>

Date: <u>2005-09-12</u>

FCC ID: <u>TLQ110800502T2</u>

Circuit Description

The $\underline{27.145}$ MHz crystal oscillator drives the base of $\underline{Q1}$ the final/buffer amplifier. The modulation provided by $\underline{U1}$. The output of $\underline{Q3}$ has the matching network consisting of $\underline{L4}$, $\underline{L3}$ and $\underline{C10}$, $\underline{C12}$, $\underline{C11}$ that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna, Ground and Power Source

The antenna consists of a <u>47cm</u> 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 <u>9 Volt ("6F22" size battery x 1)</u> primary battery.

Operation Descriptions

The transmitter is a <u>toy car</u> operating at <u>27.145</u>MHz band. The transmitter is powered by a <u>9Vd.c.</u> battery (<u>6F22</u>) and the transmitting frequency is crystal controlled. There are <u>two joystick</u> to control the forward reverse motor and director of movement. The operation is achieved by different combinations of form pulse modulating signal on the <u>27.145MHz</u> carrier frequency.

Remarks:

The transmitter is a 2Joystick transmitter.

The EUT continues to transmit while <u>Joystick</u> is being pressed.

It is Pulse transmitter, Modulation byIC; and type is Pulse modulation.