Application No.: <u>HM156086</u>

Date: 15 March 2006

FCC ID: NVB63102

Circuit Description

The $\underline{49.86}$ MHz crystal oscillator drives the base of $\underline{Q1}$ the final/buffer amplifier. The modulation provided by $\underline{Speaker}$. The output of $\underline{Q1}$ has the matching network consisting of $\underline{L1}$, $\underline{T1}$ and $\underline{C6}$, $\underline{C7}$ 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>11.5cm</u> long telescoping chrome over brass tubing. 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 Walkie Talkie</u> operating at <u>49.86MHz</u> band. The transmitter is powered by a <u>9V</u> battery (<u>6F22</u>) and the transmitting frequency is crystal controlled. The operation is achieved by different combinations of form pulse modulating signal on the 49.86 carrier frequency.

Remarks:

The transmitter is a 1 Button transmitter.

The EUT continues to transmit while Button is being pressed.

It is <u>Voice</u> transmitter, Modulation by <u>Speaker</u>; and type is <u>Amplitude</u> modulation.