

APPLICANT: WINATION TECHNOLOGY MFG. LIMITED.  
FCC ID: N57RY-1315

#### CIRCUIT DESCRIPTION:

In transmit mode the microphone (MIC1) is switched so that it is connected to the input of the audio amplifiers Q4 and Q3. The output of Q3 drives the transformer T2, which modulates the crystal controlled oscillator Q2. This oscillator is the RF carrier generator. The antenna is transformer coupled to the oscillator. In receive Q1 is the RF amplifier and detector stage. Q3 and Q4 become audio amplifiers of the received audio to drive the transformer L3 which is coupled to the speaker.

#### ANTENNA AND GROUND CIRCUITRY

This unit makes use of a external flexible 13centimeter long antenna. The antenna is inductively coupled. The unit relies on the ground tract of the printed circuit board for ground. No external ground is provided. Energy is supplied by a 9Volt battery.

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