

# FCC ID: 2AAWNOBK

## Operating Principle

The antenna would receive the electromagnetic waves in the air, and transfer them to T2 via L2, Q1 could vibrate and change according to the variation of the electromagnetic waves. That makes Q1 play the role of super-regeneration detector with high sensitivity. The audio signals are transferred to Q2 via C9R14 and get pre-amplified by Q2. After that, the power of the signals is amplified by Q3 and Q4, which drives the speaker to make a sound.

When transmitting talking, press button "KB1", the speaker that was connected to the output- speaker, while now is a microphone to collect audio signals. The voice vibrates, and the coil on the speaker can sense the weak electric signals. Those signals get amplified by Q2, and then the power of the signals is amplified by Q3 & Q4. The signals amplified are transferred to Q1 to get high frequency amplification, the oscillator signals are radiated to the air. At the time, the device is in transmitting mode.

The antenna consists of a 6.4cm long spring 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.

The transmitter is a button transmitter. The EUT continues to transmit while button is being pressed.

It is button transmitter, Modulation by IC Crystal and type is AM modulation.