

## FCC ID: SVDJP-69768

HM160979

### Circuit Description

The 49.86MHz crystal oscillator drives the base of Q1 the final/buffer amplifier. The modulation provided by microphone. The output of Q1 has the matching network consisting of C1, C6 and C2 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 an 8cm 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 9 Volt (AG13" size battery x 6) for TX and Rx and the LCD function is supplied by a 3 Volt ("AAA" size battery x 2) primary battery

### Operation Descriptions

The transmitter is a Walkie Talkie operating at 49.86MHz band. The transmitter is powered by a 9V battery ("AG13" size battery x 3) and the transmitting frequency is crystal controlled. There are button to control voice transmission or receiving signal. The operation is achieved by different combinations of form amplitude modulating signal on the 49.86MHz carrier frequency.

#### Remarks:

The transmitter is a button transmitter. The EUT continues to transmit while button is being pressed. Modulation by Microphone; and type is Amplitude modulation.