

**Application No.: HM156742**

**Date: 23 June 2006**

**FCC ID: T96SUNMATE2195**

### **Circuit Description**

The 49.86MHz crystal oscillator drives the base of Q2 the final/buffer amplifier. The modulation provided by Mic. The output of Q2 has the matching network consisting of L1 and C16 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 13cm 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 9 Volt ("6F22" size battery x 1) primary battery.

### **Operation Descriptions**

The transmitter is a toy walkie talkie operating at 49.86MHz band. The transmitter is powered by a 9V battery (6F22 x 1) and the transmitting frequency is crystal controlled. The operation is achieved by different combinations of form amplitude modulating signal on the 49.86MHz carrier frequency.

Remarks:

The transmitter is a 1 Button transmitter.

The EUT continues to transmit while Button is being pressed.

It is Voice transmitter, Modulation by Microphone; and type is Amplitude modulation.