

## CIRCUIT DESCRIPTION OF ETALK-2000

- (1) With a 4MHz ceramic resonator, U6 is a micro controller unit (MCU), which is programmed to control peripheral circuits.
- (2) U2 is a FM IF system IC, which demodulates signals from IF to AF.
- (3) U5 is a frequency synthesizer IC, which can generate different frequencies of local oscillator of receiver or transmitter with a voltage controlled oscillator (VCO).
- (4) Xtal2, a crystal oscillator, provides a 20.95MHz clock to U5 and U2.
- (5) U8 is an EEROM, which can keep data without applying power.
- (6) U1 is used for being low pass filters (LPF), which suppress unwanted frequencies like noise.
- (7) U4 is an audio amplifier IC, which drives a speaker.
- (8) For tuning the accuracy of frequency, the C97 is a trimmer capacitor, which can be adjusted.

## TUNEUP DESCRIPTION OF ETALK-2000

The output power can't be adjusted by manufacturers and personal services.

## GROUND SYSTEM DESCRIPTION OF ETALK-2000

The ground system of etalk-2000 includes two grounding shields for preventing the interference of radiation. One covers the VCO, and the other covers the transmitter.

## ANTENNA DESCRIPTION OF ETALK-2000

The antenna of etalk-2000 is monopole antenna, which is mounted on the PCB.