

LOYAL TECHNOLOGY CO.LTD

Model No: FR54677

CIRCUIT DESCRIPTION

Receiver Circuit

The built in antenna inductively coupled to transistor Q1 and Q2 the regenerative mixer and detector. The detector audio is then sent to audio amplifier Q3 and Q4. The output of the audio amplifier coupled to speaker/microphone jack 1.

Transmit Circuit

Q5 is the LC oscillator which is modulated by the output of the audio amplifier U2 KA386. The audio input is now from mic. The modulated signal is then coupled RF amplifier transistor Q6 and Q7. The output of the RF amplifier coupled to antenna.

Power and Ground

Energy is supplied by four 1.5V button cell. No external ground connection is provided and what ground that's available is from the printed circuit board.

When the power switch 1 set to "ON" position, the unit is at receiver state; When a voice to microphone, the voice coupled to audio amplifier U1 LM383, the output of the audio amplifier coupled to switch transistor Q10, the switch transistor control transmit voltage to ON and control transistor Q8 and Q9 for the receiver to stop .