

## **Circuit Description**

The circuit of the unit comprises power supply circuit, waveform generation and control circuit, ID coding circuit; finger tip control circuit, high frequency oscillation and modulation circuit and antenna circuit.

1. Power supply circuit: it comprises battery, Q1, R1, R3, R2, C2; it supplies operating voltage for the Waveform generation and control circuit.
2. ID coding circuit: it comprises SW1; it has 16 ID code combinations depend on the 4-digit switch and the code will be sent to the Waveform generation and control circuit.
3. Finger tip control circuit: it comprises SW2-SW6 and other component; it changes voltage of the signal and send them to the Waveform generation and control circuit, the Waveform generation and control circuit will generate corresponding command information
4. Waveform generation and control circuit: it comprises IC1;it generates corresponding communication information code according to the operation of finger tip control circuit and send them to the High frequency oscillation and modulation circuit.
5. High frequency oscillation and modulation circuit: it comprises Q2, SAW1 and other component; it generates sine carrier wave of 315MHz and modulates the information code which is from the Waveform generation and control circuit. Then send them to the Antenna circuit.
6. Antenna: it comprises PCB wiring; it radiates electrical signal generated by High frequency oscillation and modulation circuit, generates the electromagnetic wave in the sky.