

Circuit Description

1 When the headset is in shutdown state, press the button, and the IC8 pin determines to boot through the internal MCU. The battery is formed by IC step-down module and IC5 pin 10UH inductance to form a step-down circuit, which supplies power to the IC internal RF module and the power amplifier circuit of the headset. The battery has two LDO step-down circuits, IC3 for IO port power supply and IC19 for DAC circuit power supply. 11, 12 pin and IC internal circuit and 26MHZ crystal oscillator constitute the oscillation circuit, to provide reference signal to IC internal. IC13 and 14 legs are used to drive red light and blue light, indicating that bluetooth works in pairing state;

2. At this time, the mobile phone searches and connects the headset, and plays music. The Bluetooth antenna receives the R3 and C6 impedance matching network elements that pass through 2.4g RF digital signals, and enters the Bluetooth IC9 pin. Through the internal RADIO frequency module, touch code circuit, digital-to-analog conversion circuit and power amplifier circuit, to bluetooth IC17 and 18 pin output audio signal, push the horn to work.

3 when there is a telephone, press the button to answer it. The voice audio signal received by MIC is input to IC16 pin through 104 capacitor, amplified and coded internally, and then sent to the mobile phone by antenna through internal RF module circuit and R3 and C6 impedance matching network components; The voice of the other party's mobile phone is sent to the Bluetooth headset through the Bluetooth of our mobile phone. After the IC internal circuit processing, to the Bluetooth IC17 and 18 pin output audio signal, at this time can hear the other side's voice.

4. The charging case circuit is boosted to 5V to the spring pin, and the headset copper column is input to the Bluetooth IC2 pin through THE VUSB network, and the battery is charged through the bluetooth IC4 pin through the internal charging circuit. At this time, the headset is in charging state, the red light is always on, after charging the ear will automatically shut down.