# Circuit Description (2.402GHz~2.480GHz)

The Mobile Wireless Headset uses a short-range wireless communication technology. The design applied is in international identification ISM (Industrial Scientific and Medical) frequency bandwidth environment that is 2.4GHz~2.48GHz bandwidth.

The Mobile Wireless Headset is a wireless mono headset Within a range of 10 meters, This headset can connect to other Bluetooth devices which have built-in audio gateway, such as Mobile Phone, Desktop, Notebook Computer or PDA etc..

## Charger Circuit

The Headset are often powered internally using a 3.7 volt Lithium-lon Polymer with short circuit protection and a capacity of 120mAh, The battery charger is based on the U2, U2 has a VCC input for the power source from an external 6 volt DC supply. An output to the battery, Battery volt is for Microphone Bias circuit and CPU power 1.8V DC/DC circuit.

The RF circuit includes the antenna matching components and a ceramic antenna welded in the circuit board .

The crystal provides the whole circuit the standard reference frequency of 16MHz. There is no external ground connection. the ground is only that of the printed circuit board.

## Switched mode 1.8 Volt regulator

For optimum efficiency, a switch mode power supply provides the 1.8V for digital, analogue and RF portions of the device. This converter is powered from a Li-polymer battery.