

### **Circuit Principle description:**

**This CLASS2 BLUETOOTH DONGLE used in the computer's USB port, a Cambridge Silicon Radio Limited single chip BC04 ROM, it is a single chip radio and baseband IC for Bluetooth 2.4GHz systems including enhanced data rates (EDR) to 3Mbps, With the on- chip CSR Bluetooth software stack it provides a fully compliant Bluetooth system to v2.1 of the specification for data and voice communications.**

**The products work in the RF 2.402 GHZ- 2.480HZ, POWER OUT MAX at 4dbm, the system clock 16 MHZ, a USB 5V power supply, LDO output DC3.3V used for the main system, baseband and launch included in the internal chip U1,**

**There are three different modulations for Bluetooth v2.1 + EDR. Modulation type for GFSK.  $\pi/4$  DQPSK. 8DPSK.**

**Use of PCB antenna, impedance matching at 2.4HGZ, wireless communications distance of 10 meters.**