BTH011-BK headset circuit principle description

1 The headset uses the CSR chip 57F687 (U1) with bluetooth V2.1+EDR protocol.

2 Rechargeable polymer li-ion battery supplies power for the headset, the voltage is 3.7V, the polymer li-ion battery is charged by external DC 5V through IC (U1) pin 39,the current and voltage is managed by U1.

3 L1,C5 and IC internal circuit make up of BUCK circuit and convert the LI-ION battery's voltage to 1.8V supply for U1 and U2.

4 Y1 crystal oscillator (16M) supply clock frequency for bluetooth IC (U1),and through multiplicator provide 2.441G frequency for radio

5 R6,C15 ,R8 ,Q1compose the pulse reset circuit.

6 The antenna is made on the PCB panel with FLTI, L3, C14, L4 matched for the 50omh impedance 2.441G selected frequecy net.

7 E²PROM (U2) is used to store the custom parameter by user .

8 Antenna Gain:0.5dBi

9 USB is for charging only without data exchange