

## Operation Description

The 16MHz crystal oscillator drives the base of IS1685N(U2) the final/buffer amplifier. The modulation provided by IS1685N(U2). The output of IS1685N(U2) has the matching network consisting of C2 and C3 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

### Antenna, Ground and Power Source

The antenna consists of a 2.4GHz PCB antenna. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 3.7 Volt primary battery

The transmitter is a RADIO operating at 2400-2.483.5MHz MHz band. The transmitter is powered by a 3.7V battery and the transmitting frequency is crystal 16MHz controlled. The operation is achieved by different combinations of form pulse modulating signal on the 2402-2480MHz carrier frequency.