

## Circuit Description

Model no.: BCK08A

The 16 MHz crystal oscillator drives the base of IC the final/buffer amplifier. The modulation provided by IA2E. The output of IC has the matching network consisting of U3 RFLP FB2012-07L2R4BT and C1,C2,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 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 (BL-5B battery 750mAH) primary battery

### Operation Descriptions

The transmitter is a Bluetooth radio operating at 2400MHz ISM band. The transmitter is powered by a 3.7V battery (BL-5B battery 750mAH) and the transmitting frequency is crystal controlled. The operation is achieved by different combinations of form pulse / amplitude / frequency modulating signal on the 1MHz carrier frequency.

### Remarks:

The transmitter is a button transmitter. The EUT continues to transmit while button is being pressed. It is button transmitter, Modulation by IC; and type is GFSK ,  $\pi/4$  DQPSK, 8DPSK modulation.

That USB port is just for charging purpose.