

# Operation Description

Model no.: EBB0109

The 16 MHz crystal oscillator drives the base of IC the final/buffer amplifier. The modulation provided by BC6130. The output of IC has the matching network consisting of U224C32 L2 F1 and C20,C16,C15, 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 (“4.8mm\*12mm\*21mm” size battery 150mAH) primary battery

Operation Descriptions

The transmitter is a Bluetooth radio operating at 2400MHz ISM band. The transmitter is powered by a 3.7V battery (“4.8mm\*12mm\*21mm” size battery 150mAH) 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 modulation.