Circuit Description

Model no.:EM529_BC5_ROM

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 C31,C1,C13 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 80mAH) 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 80mAH) 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.