

Circuit Description

Model no.:RTX-1

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 U5 BG05 and U3,U2 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 SMA 2.4GHz antenna. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 5 V of USB

Operation Descriptions

The transmitter is a Bluetooth radio operating at 2402~2480MHz ISM band. The transmitter is powered by a 5 V of USB 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.