

Circuit Description

Model no.: TK5

The 26 MHz crystal oscillator drives the base of IC U3 the final/buffer amplifier. The modulation provided by U3. The output of U3 has the matching network consisting of U3 RFLP LFB212G45BA1A220 and L1,C1,C2 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 ("4.0mm*20mm*40mm" size battery 280mAH) primary battery

Operation Descriptions

The transmitter is a Bluetooth radio operating at 2400MHz ISM band. The transmitter is powered by a 3.7V battery ("3.5mm*25mm*25mm" size battery 145mAH) and the transmitting frequency is controlled by crystal and U3. The operation is achieved by different combinations of form pulse / amplitude / frequency modulating signal on the 3MHz bandwidth and 2402—2480 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 U3; and type is GFSK modulation.