

Circuit Description

Model no.:HO-BTL-100

Operation Descriptions

The transmitter is a Bluetooth radio operating at 2400MHz ISM band, operating frequency of 2.402-2.480GHz. The transmitter is powered by a 3.7V battery and the transmitting frequency is controlled by a crystal of 16MHz. The operation is achieved by different combinations of form pulse / amplitude / frequency modulating signal on the 1MHz carrier frequency.

Remarks:

The transmitter is a iRetro Phone Bluetooth, The modulation is GFSK for 1M data rate, 1/4-DQPSK for 2M data rate, and 8DPSK for 3M data rate. Fast frequency hopping (1600 hops/s) is used over a total of 79 channels between 2.402 GHz up to 2.480 GHz. The channel bandwidth is 1 MHz.