

Applicant: Favoru Electronic Co., Ltd
FCC ID: ZGY-TX5

Transmitter Circuit Description

The transmitter consists of 3V Battery, RF Generator and RF Modulate IC, Crystal, Matched network and Antenna.

A. 13.560MHz Crystal X1 is the accessory for RF Generator and RF Modulate IC U2 . Through the 32 times-amplifier of the frequency in the inner of the IC, it create the carrier frequency (f0:433.92MHz) of the RF signal.

B. In the RF Circuit application, the antenna consists of whip wire line (diameter: 0.5mm, Length:150mm), the necessary the matched circuit consists of Inductance L4 and Capacitance C5, C11 and C7. There is no external ground connection. The ground is only that of the printed circuit board.

C. This device power-supplied by 3V battery and in terms of periodic transmitting to decease the power consumption, gets the data from outside source, generates the RF signal through RF Generator and RF Modulate IC, then radiate the RF signal to the sky via antenna through matched network, and complete the data-transmitting process wirelessly.