

Circuit Description

The remote control transmitter of model TCF100-12LNX is a RF transmitter with a oscillator of 13.56MHz frequency, it's main controller is MICRF113, the device consist of the encode circuit, modulation and high frequency circuit, output filter circuit and antenna. The encode circuit generated twelve way (D0, D1, D0+D1, D2, D0+D2, D1+D2, D0+D1+D2, D3, D0+D3, D1+D3, D0+D1+D3, D2+D3) data encode, and modulate base on high frequency carrier signal as RF signal of 433.92MHz, then throught the filter circuit, and the RF signal output by antenna.

Tech. Specification:

Tx Frequency: 433.92MHz

Frequency Error: $433.92\text{MHz} \pm 150\text{KHz}$

Modulation Type: OOK

Tx Power: $<10\text{mW}$

Rated Voltage: DC12V (23A12V Battery)

Rated Current: 10mA