

CIRCUIT DESCRIPTION

TRANSMITTER SECTION (TX13)

Frequency Determining and Stabilizing Circuit

MCU (U1) output a data signal to RF, the Primary resonant network consists of Q1, R4, C10, C6, L3, L1 and Y1. Thereunto, Y1 is a SAW resonator (Surface-Acoustic-Wave), to stabilize surging frequency 433.92MHZ; Q1, R4, C10, C6, L3 and L1 supply surging condition.

RF Amplification:

The power of the primary output is low, the second level amplify RF signal and output. The RF amplification network consists of C12, R6, C7, C13, L2, C14, C15 and ANT. The C13 is a coupling capacitance. Thereunto, ANT is a transmitter antenna.

Modulation:

The MCU export data signal, the circuit adopt OOK modulating mode.