

CIRCUIT DESCRIPTION

TRANSMITTER SECTION(WS15TX)

Frequency Determining and Stabilizing Circuit

MCU(U1) output a data signal to R8, the Primary resonant network consists of Q2, R12, C15, C16,L1and X2. Thereinto, X2 is a SAW resonator (Surface-Acoustic-Wave), to stabilize surging frequency; Q2, R12, C15, C 16 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 Q3, R14, C20, L3, C22, C23, C11 and L4. The C19 is a coupling capacitance. Thereinto, L4 is a transmitter antenna, C11 is a tuning capacitance.

Modulation:

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