

Technical Description, Model# 00590A1

00590 TX

00590 TX is the RF transmitter which it transmits the temp or humidity data to 00590 RX. The system clock is control by (32.768KHz) crystal. The RF transmitter will turn on for transmitting RF signal according the random ID generated after power up. The transmission cycle can be: 71s
The RF transmission antenna was connected to VDD, pin 36 (POWER; low active) AND pin 37 (DATA)
Low Battery Detection will be detected before each signal transmission

Transmitter

The oscillator (R1, C4) working at 434MHz is controlled by a SAW resonator, the output is coupled to output amplifier (Q1). A band-pass filter (L1,L2,L3,C1,C2,C3) is placed between the output amplifier (Q1) and the built-in antenna. The RF signal is generated when the positive (refer to ground) part of an encoded pulse. A pulse width modulation RF signal is being sent.