

### ***Technical Description of the Circuit 9771:***

The circuit is a RF thermometer with LCD display; the MCU TM6814-K365 will measure the temperature and code the data. Afterward, the data is transferred to the RF circuit which is a SAW Oscillator PT4450 every 3 minutes, when the Data pin output HIGH level to the DIN pin, the oscillator is turned on and output 433.92MHz RF signal, when the Data pin output LOW level to the DIN pin, the oscillator is turned off and this ON & OFF process modulate the code data into 433.92MHz with ON OFF KEYING..

Also there is an antenna matching network ( Constructed by L1, L2, L3, L4, C1, C2, C7, C8, C33, and R3) after the SAW Oscillator PT4450, this network suppress harmonic and spurious also match the Oscillator to the antenna.

#### PT4450

It consists of a SAW oscillator, power amplifier, and one-shot circuit to control SAW oscillator and power amplifier.