

Technical Description of the Circuit 9458:

The circuit is a RF thermometer without 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 433.99MHz 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 433.99MHz 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.



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Reason for Change:

Add one more channel to the unit

Effect on Change and Details of Change:

- Add channel slide switch (CH1/ CH2)

- Channel will be add with using the same transmit frequency but different in
coding

By _____

DICLK

Signature

Printed

Title Assistant Electronic Manager