Circuit Description

The TX unit is made up of Modulation transmitter, Data memory, Thermo detector, backlight, key board interface, LCD display, low battery detector and CPU clock frequency circuit.

1. The TX unit adopts 2pcs AAA Alkaline battery supply. Crystal X1 4.0MHz and X2 32.768KHz provides U1 CPU HT49R50 with working clock frequency. U3 HT 7027 outputs a low level to U1 when the battery is lower than 2.7V, and then LCD will display low Batter Sign.
2. U1 outputs a group data to Q2 when MODE button is pressed. SAW & Q2 are the modulation transmitter's main components for modulation mode of ASK. SAW keeps transmitter frequency at 303.8MHz +/-75KHz. Meanwhile, U1 PIN99 outputs a high level to Q1 to drive LED1, LED2, LED3, LED4 light on. The LEDs will be auto off after 8s.
3. U2 (93LC 46B) is a Eeprom component. Thermo-resistor sends detected data to U1 for dealing with, and the results will be showed by LCD .
4. Buttons of UP, DOWN, MODE, SET, TIMER and CP-LOCK are U1 Interface Circuit. LCD displays all U1 processed results.