

# Circuit Description

Tx100 is a paper transmitter for UHF.

- . Input power supply = DC9V / 500mA
- . It changes the 9V to 5V by using U3 (7805)
- . RF power supply = RF module Q1 (2907)
- . RF power is supplied by using on/off switch in Q1.
- . It oscillates channel crystal (76.2625 MHz) by using Q8 and filters by using SAW filter F1.
- . After that it changes the frequency to UHF by 6 times multiplying by using Q7, Q4 and Q5.

Finally if transmits the signal after amplifying to 0.5W by using Q2, Q3 and Q6.

- . CPU U1 (8052)

It's a microcontroller and performs data control, display and transmit signals.

- . EEPROM U2 (24LC65)

It's an EEPROM and retains cap codes by 1000.

It's controlled and read by microcontroller.

- . LCD module

Refer to the specification attached.