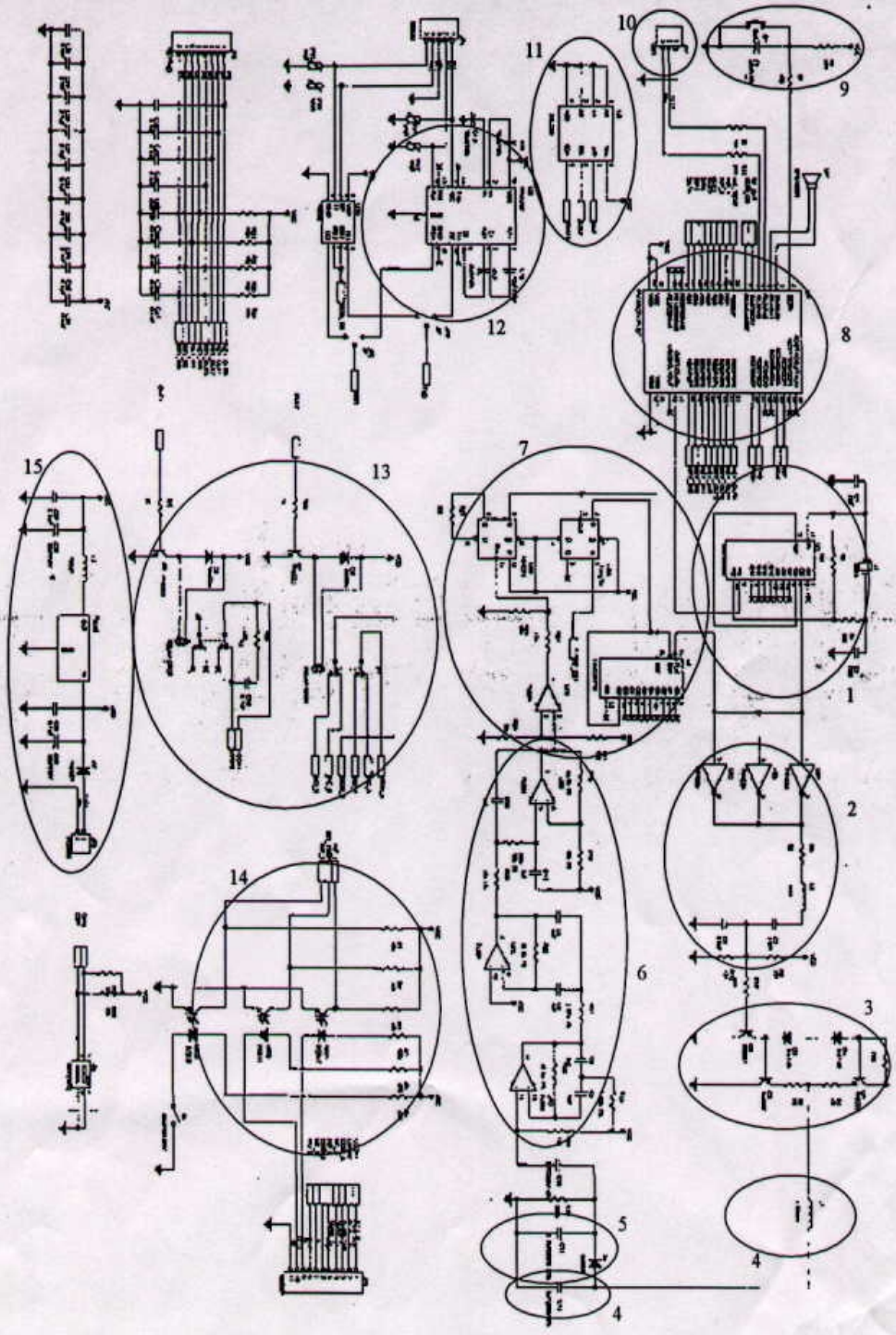

[Figure 2] LCR-2000C Circuit Confguration

Guide for Detail Design ; each part

1. Modulator(4MHz)

   : ÷ 32 = 125KHz(RF Modulate)

   Running Microprocessor PIC16C74

2. Rectangular Pulse → Sign Wave (L2 : 1mH)

3. 125KHz Driver using "B" level Push-Pull amplifier

   Q1 & Q2 are configured as symmetrical complementary type, and Q2 & Q3 are subordinately joined.

4. Antenna

   - f_0 = 125KHz, 25.66dB μv, Series Resonance(Z = ϕ)
   - $f_0 = 1/2\pi\sqrt{LC}$
   - L1 = 1.62mH
   - C12 = 1nF/200v 5%

5. LPF(Low Pass Filter) Part

   Pass low frequency and scan data from appropriate frequency range, after receiving transmitted data from card.

6. Demodulator

   Definite wave with amplifier (Demodulation part = Detecting pat)

7. Transform data to modified wave : 400μs/bit

8. Micro Processor : PIC16C74A

   Internal Program Memory : 4Kbyte

   Internal Data Memory : 192byte

9. Power ON 2 Color LED

11. External Memory

    : 24LC65 Comm. port setting (using Jumper Line)

    RS-232 or RS-485 Port

13. 12V/1A Relay

14. Input Port(Power Separated)

15. Power DC12V/1A