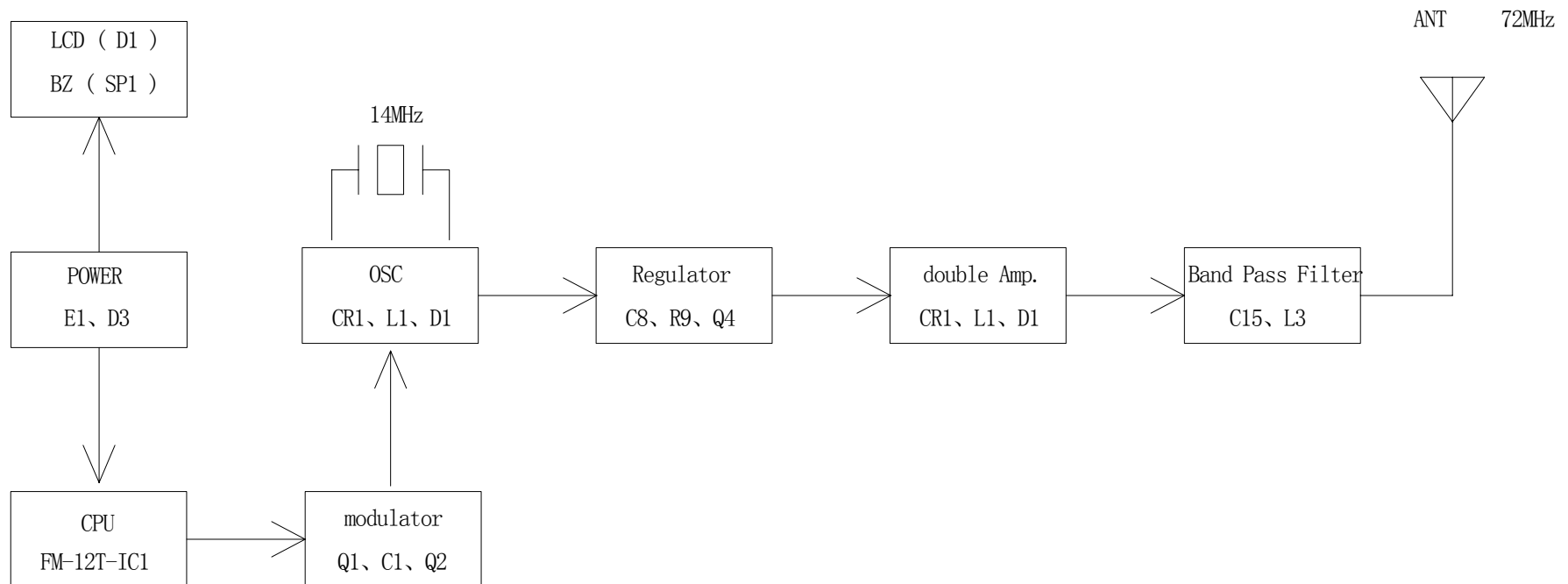


## FM72MHz TRANSMITTER BLOCK DIAGRAM



1. Accept the analog voltages from the control inputs (joysticks, switch)
2. power offer to the LCD (D12) and BZ (SP1) 、 encoder circuit、 tuned circuit、 transmit circuit, etc.
3. Process width of the pulse to create control mixing , adding ,reversing ,etc., as desired by the user.
4. pulse of synchronization and pulse of channel 1-3 output from CPU . (encoder circuit)
5. then modulator the pulse.
6. The oscillator excite by a quartz crystal. the crystal supports oscillation at the crystal's fundamental frequency (approximately 14MHz). ( L1、 CR1、 D1 )
7. Its output frequency is 5\* crystal
8. The tuned circuit in the oscillator transistor's collector is tuned to the second harmonic of this frequency .
9. double Amp.
10. Band Pass Filter ( C15、 L3 )
11. send signal from the ANT .

## SPECIFICATION OF RYSTAL UNIT

1. FREQUENCY: 72MHz (72MHz)
2. HOLDER TYPE: HC-50U
3. FREQUENCY TOLERANCE: + -7PPM/+25C.
4. EQUIVALENT RESISTANCE: 20 OHMS MAX/SERIES
5. OPERABLE TEMPERATURE RANGE: ( -20°C ~ +60°C )
6. TEMPERATURE DRIFT: +-20PPM
7. MADE OF OSCILLATION: FUNDAMENTAL (AT CUT)
8. MODE OF MODULATE: FREQUENCY
9. DROPPING FROM 75 CM HEEIGHT 3TIMES ON FIRM WOOD
10. BANDWIDTH OF CARRIER WAVE:  $\leq \pm 2.5\text{kHz}$

11. VIBRATION TEST

TEST TIME 120MINUTES IN EACH DIRECTION

12. AGING: + - 5PPM/YEAR