THE WORK FLOW OF FM Transmitter

The FM TRANSMITTER is mainly connects of four parts:

1: CPU control part

2: Programmable Flash Memory

3: transmission frequency modulator and LCD display

4: the power supply circuit.

Part1:

The BH1415F is a FM stereo transmitter. The IC consists of a stereo modulator for generating stereo composite signals and a FM transmitter for broadcasting a FM signal on the air. The stereo modulator generates a composite signal which consists of the MAIN, SUB, and pilot signal from a 38KHz oscillator. The FM transmitter radiates FM wave on the air by modulating the carrier signal with a composite signal. It output DA、CK、CE date signal control frequency. And BH1415F is PLL phase detector, a main of output control a modulator voltage modulator, a main signal of 19KHZ oscillator and a composite signal of 38KHz oscillators add to RF modulator. RF modulator export the modulated stereo radio signal, then this signal be amplified.

Part2:

AT24C02 is Programmable Flash Memory IC, The AT24C02A provides 2048bits of serial electrically erasable and programmable read only memory (EEPROM) organized as 256words of 8 bits each. It connects EM78P803A.

Part3:

EM78P803A is LCD display and transmission frequency modulator, The EM78P803A a main of BH1415F supply data signal is modulator LCD display and transmission frequency control.

Part4:

The power supply circuit is mainly consist of DC/DC converter TA7805,12V voltage from car cigarette lighter can be convert to 5V by the TA7805.this part can supply 5V voltage to all other IC and circuit to work . IPOD charge of circumjacent power supply circuit DC 12V voltage supply.