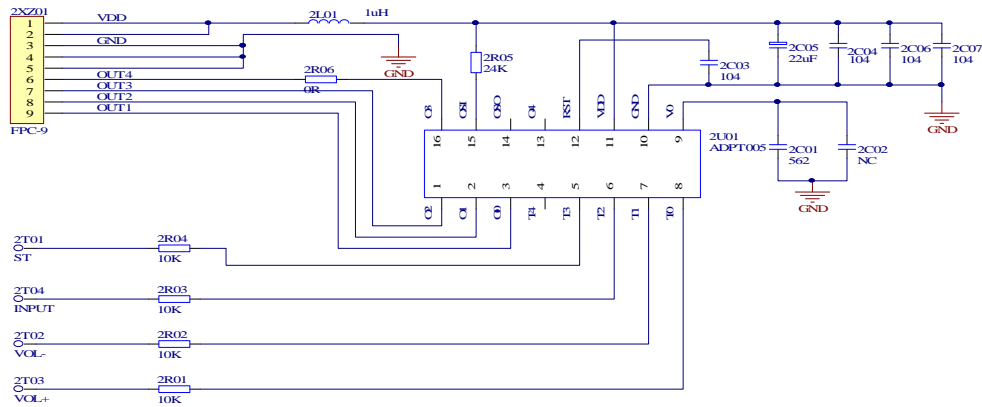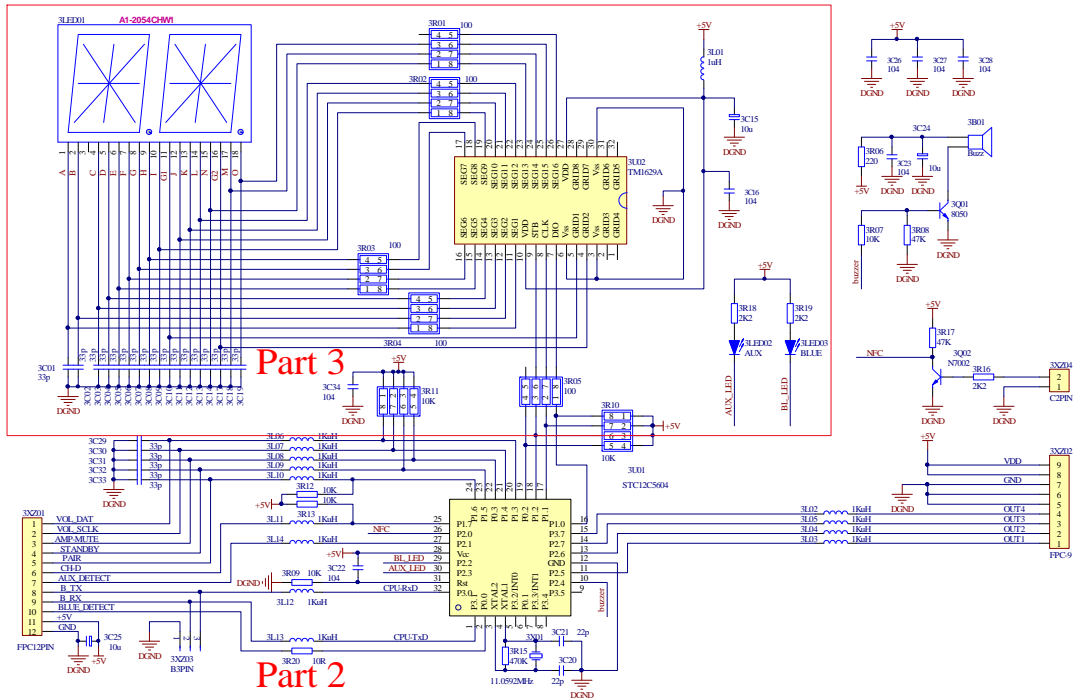# FI50 Circuit Description

Part 1: Touch buttons

   Use the IC 2U01 ADPT005 to implement this feature,T0,T1 ,T2,T3 ,a corresponding function are VOL +,VOL -,INPUT and the ST

Part 2: MCU control

1. The MCU model is STC 12C5604 AD, crystal 11.0592 MHz provide working frequency for MCU.
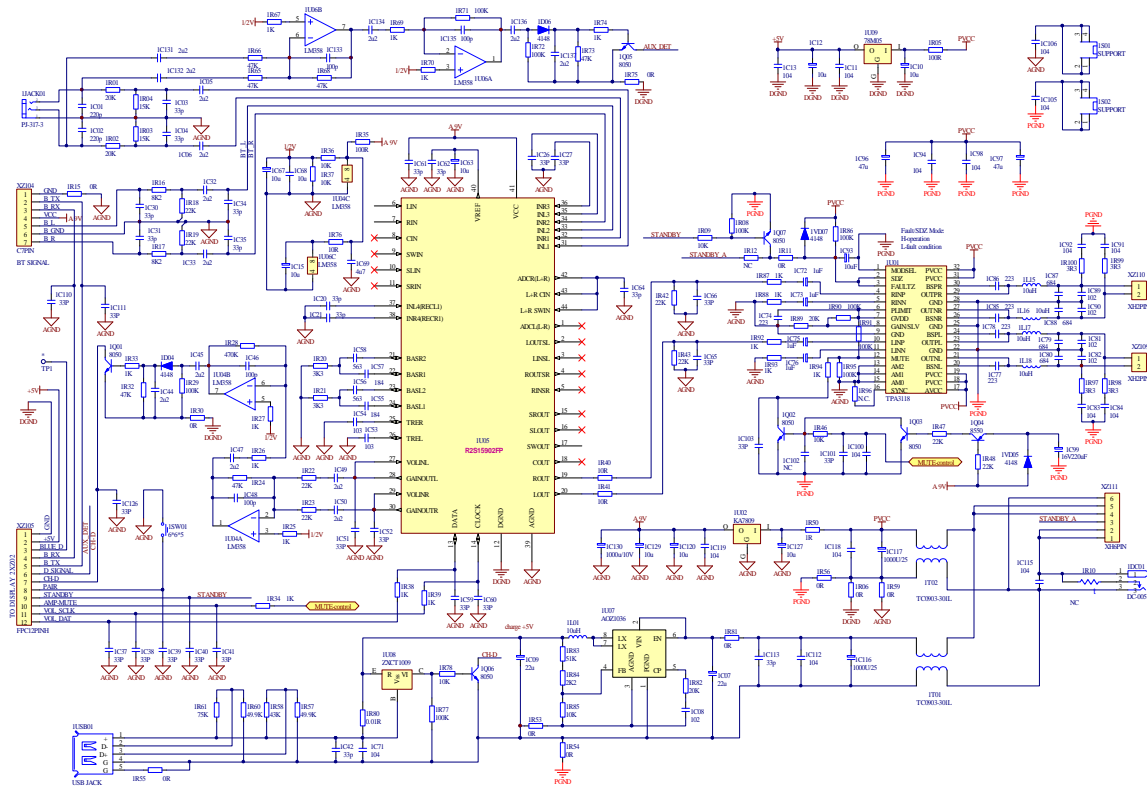
2. P0.3 , P1.5 are use for control the amplifier standby or working, P1.0 , P1.1, P1.2 are use for control the display part .

3. P2.5, P2.6 , P2.7 , and the P3.7 are use for control the Touch buttons.

Part3: The display part

1.Two LED indicator are use display the signal inputs information, 3LED02 for AUX IN, 3LED03 for Bluetooth.

2. The display part use two eight digital tube to display the device information, e.g. display the master volume ,treble , bass etc.

Part4: Signal amplification part

1. Coupling signal through 1U05 , the 6ch electronic volume with 4 input selector R2S15902FP , by the signal select and audio signal processor ,output to the amplifier IC TPA3118 , final output to two speakers .

2. 15V DC power through 1U07 , is a high efficiency, 5A synchronous buck regulator AOZ1036,output one 5V 2.1A current supply for USB charging.

Antenna Used:

An F antenna layout in the PCB has been used.