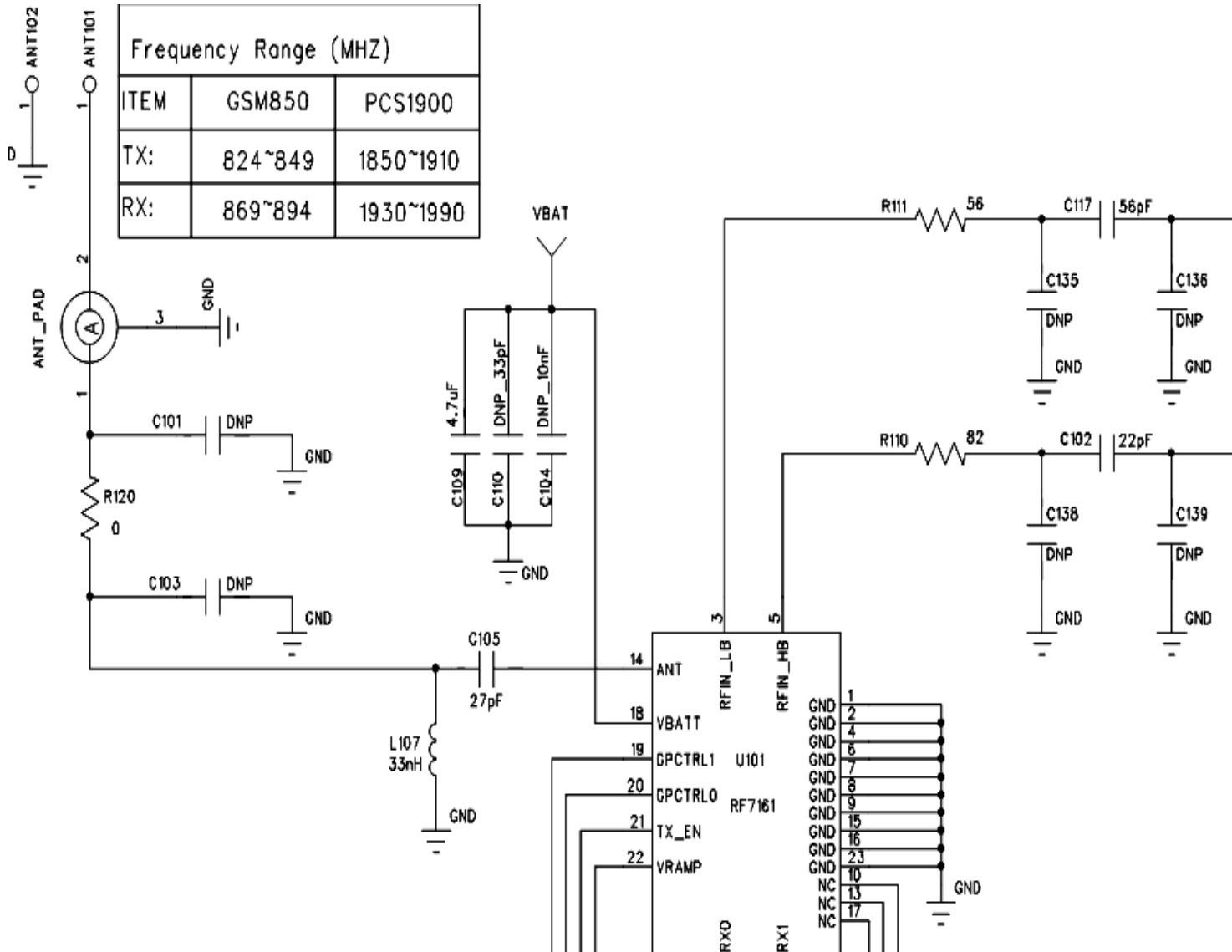
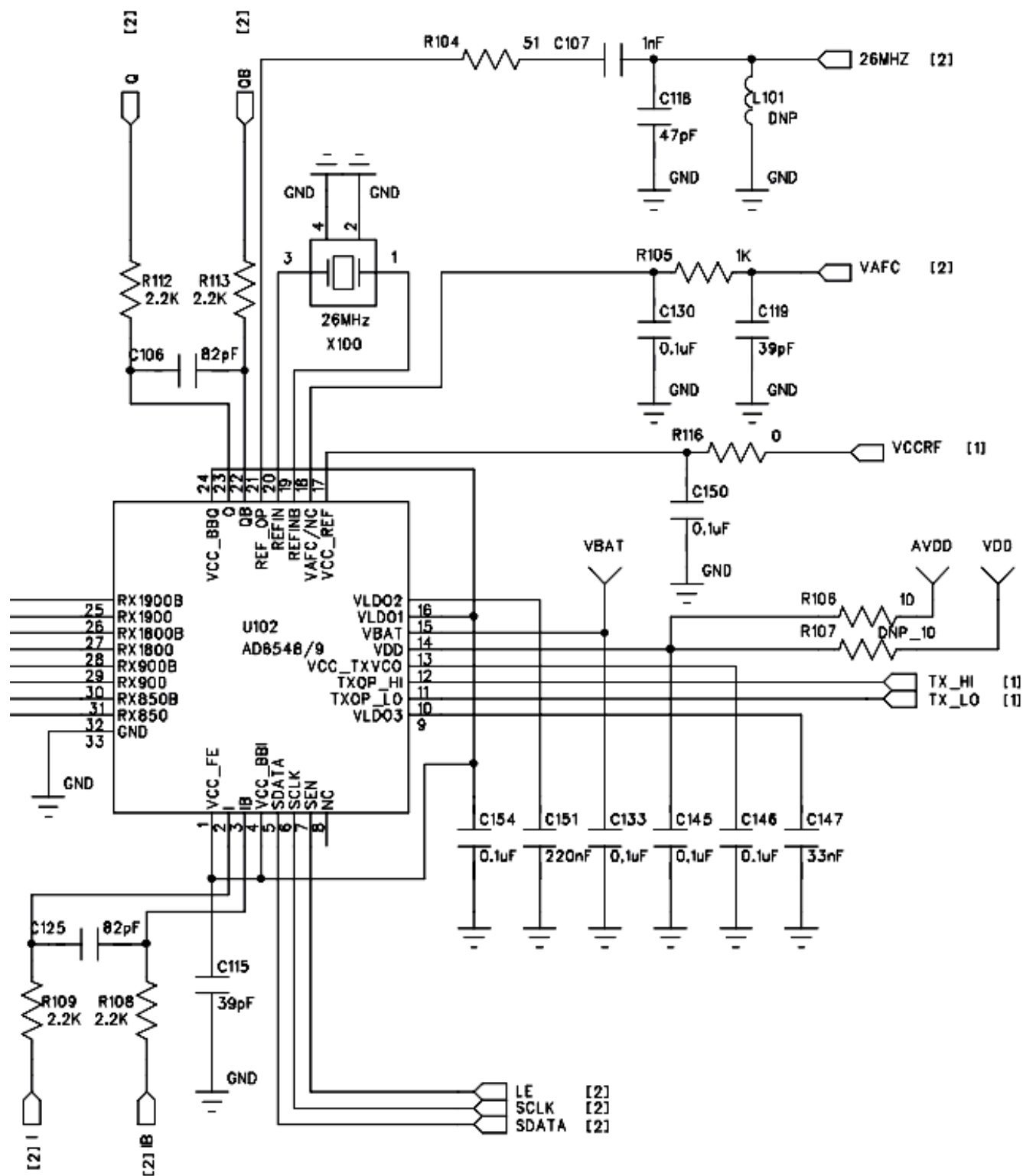


## CIRCUIT DESCRIPTION

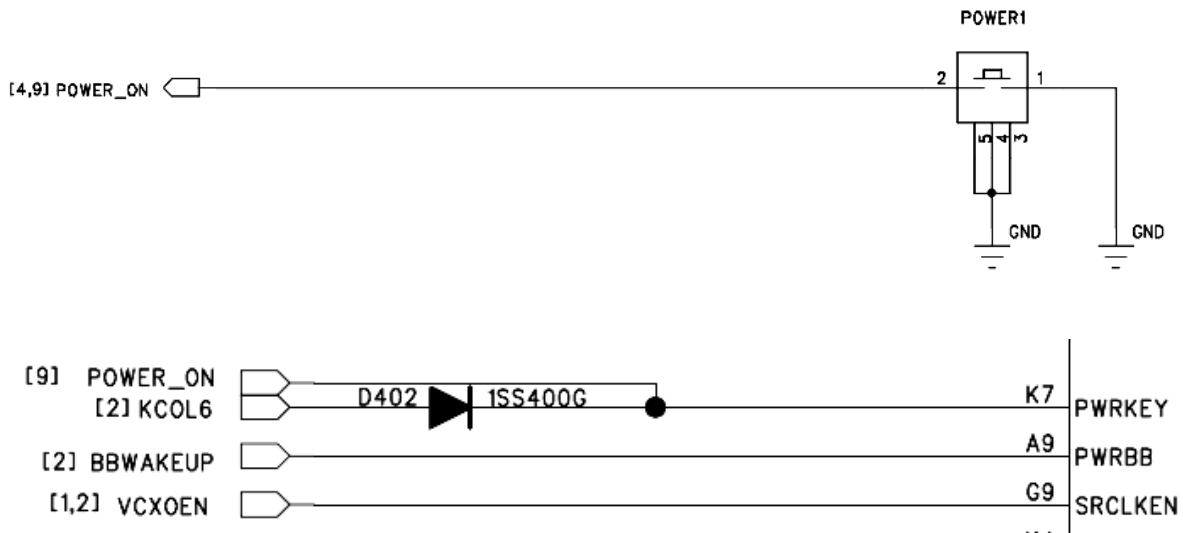
### 1、 Transmitter/Receiver Circuit



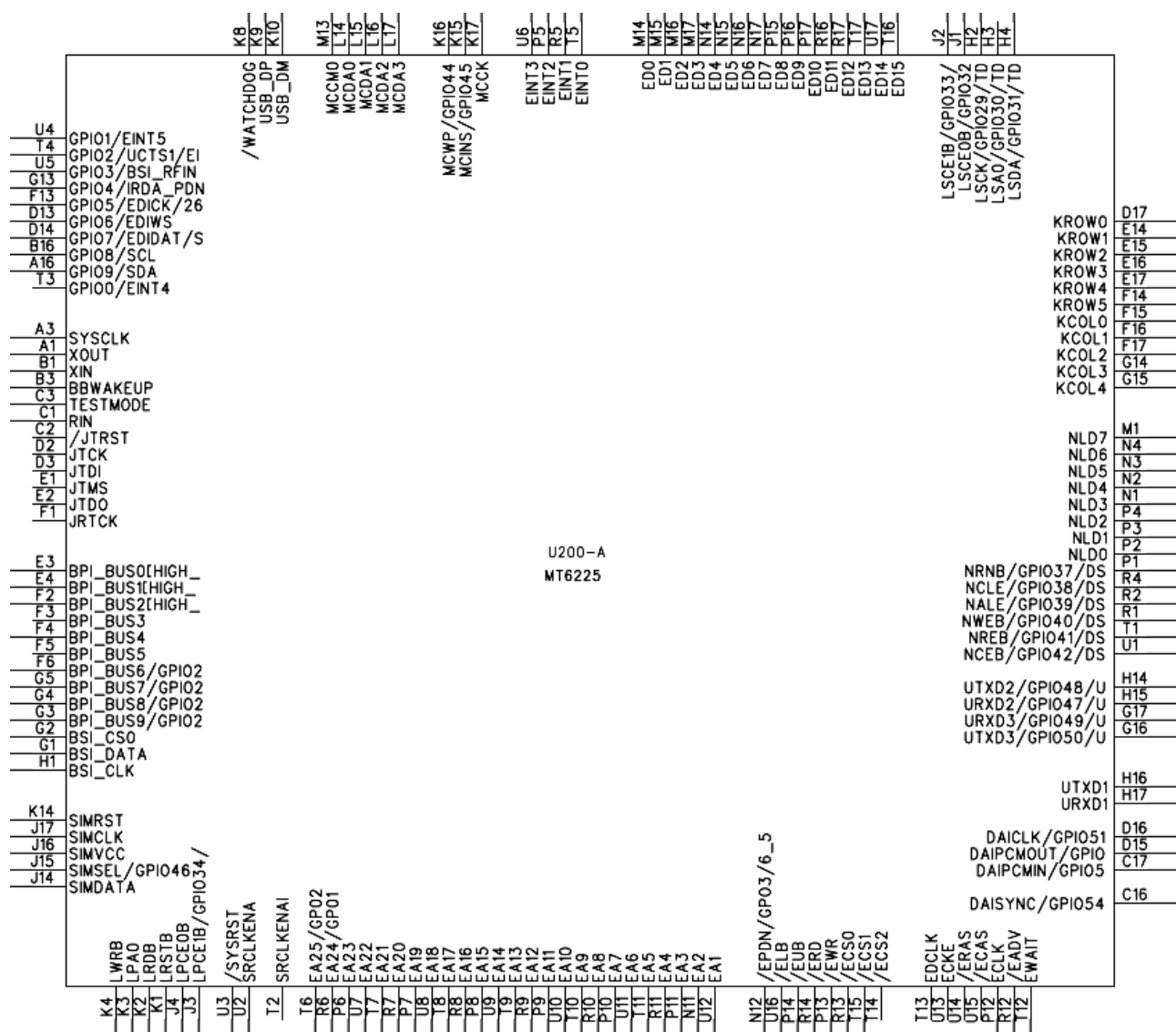
This circuit shows the transmitter and receiver path of GSM850/PCS. The RF signal which is amplified by RF PA transmits to antenna through antenna switch and then radiates to the air. R120, C101, C103 make up of the antenna matching circuit. When receiver, the antenna receives the RF signal, and then demodulated by AD6548 after band filter.

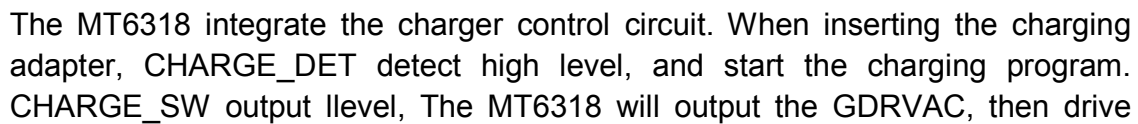


## 2、Power ON/OFF Circuit

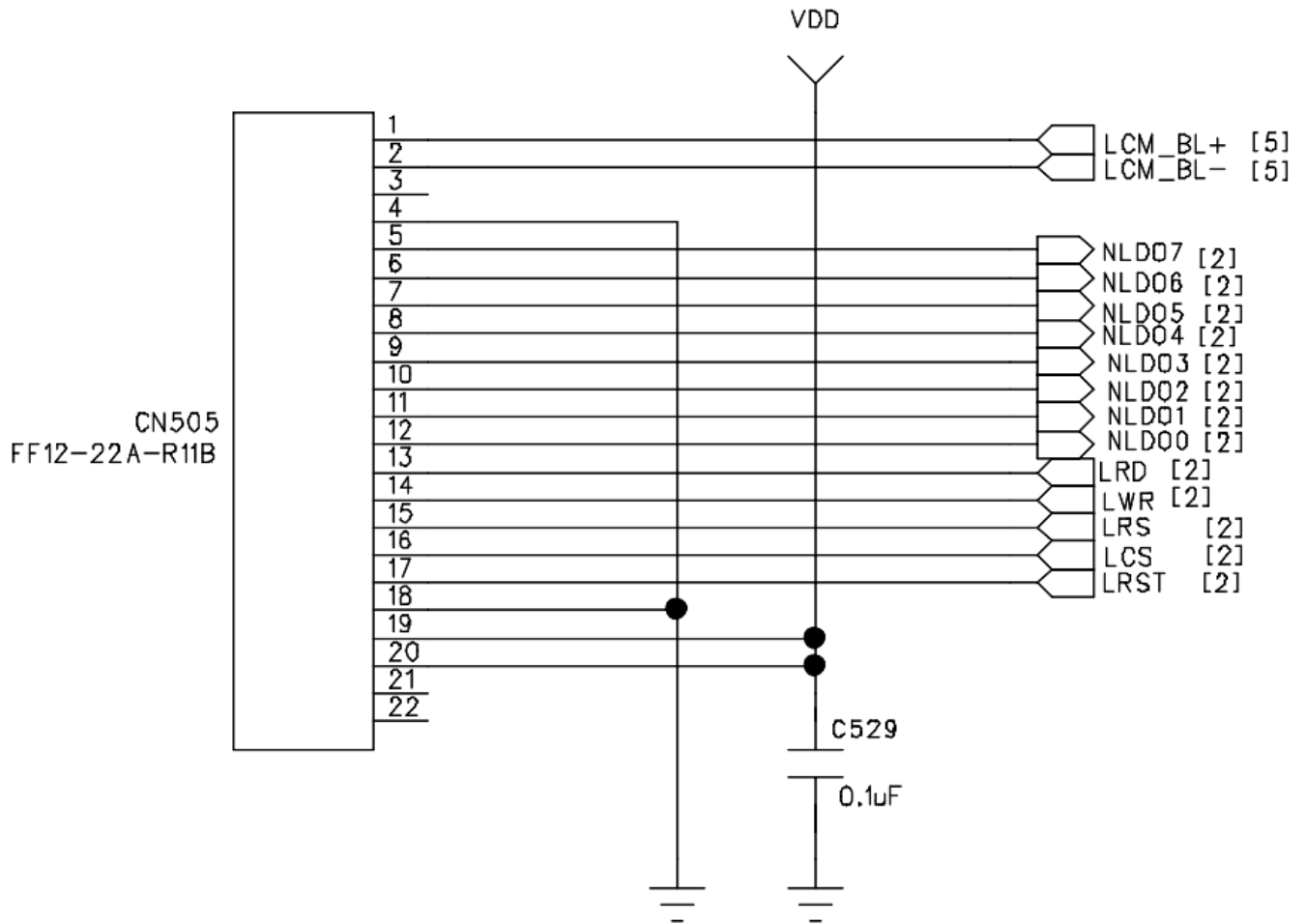


After inserting the battery, VRTC output voltage of 2V, and then the 32.768KHZ crystal start to work. Now press the power on/off switch **POWER1**, then the inner program start initialing. Press the power on/off switch about 2s at normal work status, CPU MT6225 will detect the signal and start the power off program.





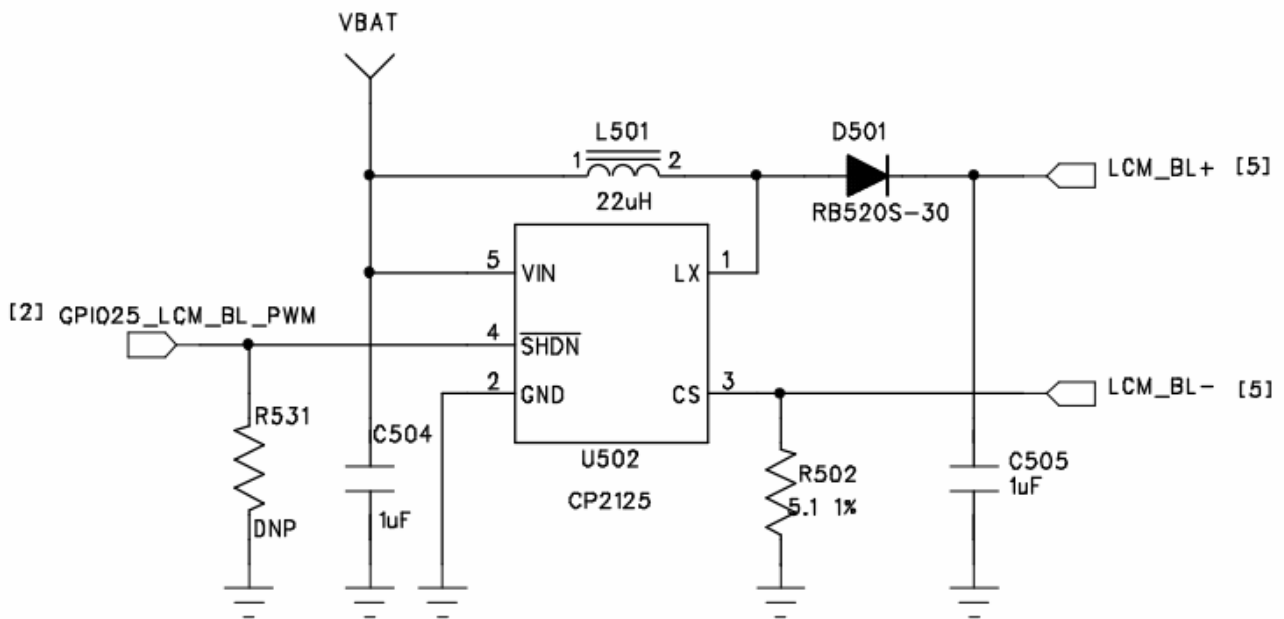
#### 4、LCD Circuit



The LCD connects to MT6225 through FPC. The signals are defined as follows:

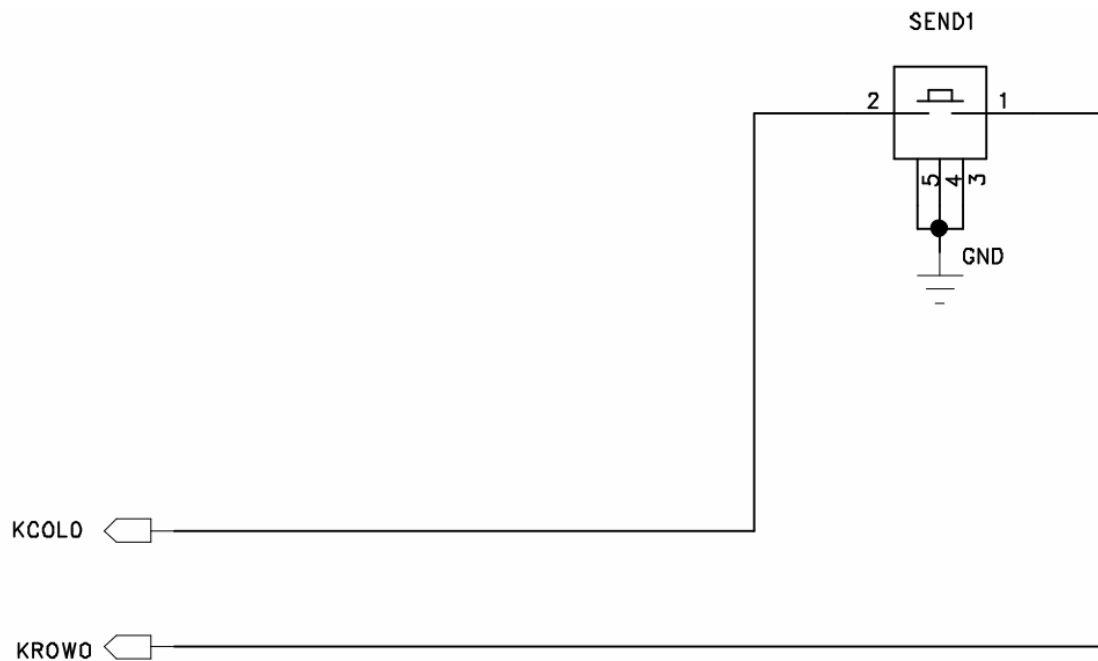
VDD: LCD inner drive voltage, provided by MT6318  
 LRSTB: Reset signal  
 LRS, LCD writing signal  
 LWR, LCD reading signal  
 LRD, LCD chip select signal  
 LCS, LCD data signal  
 NLD0~NLD7.

#### 5、LCD Backlight Circuit



LCD backlight is provided by U502. It will output 6.8V voltage to the LED.

## 6、Keypad Circuit

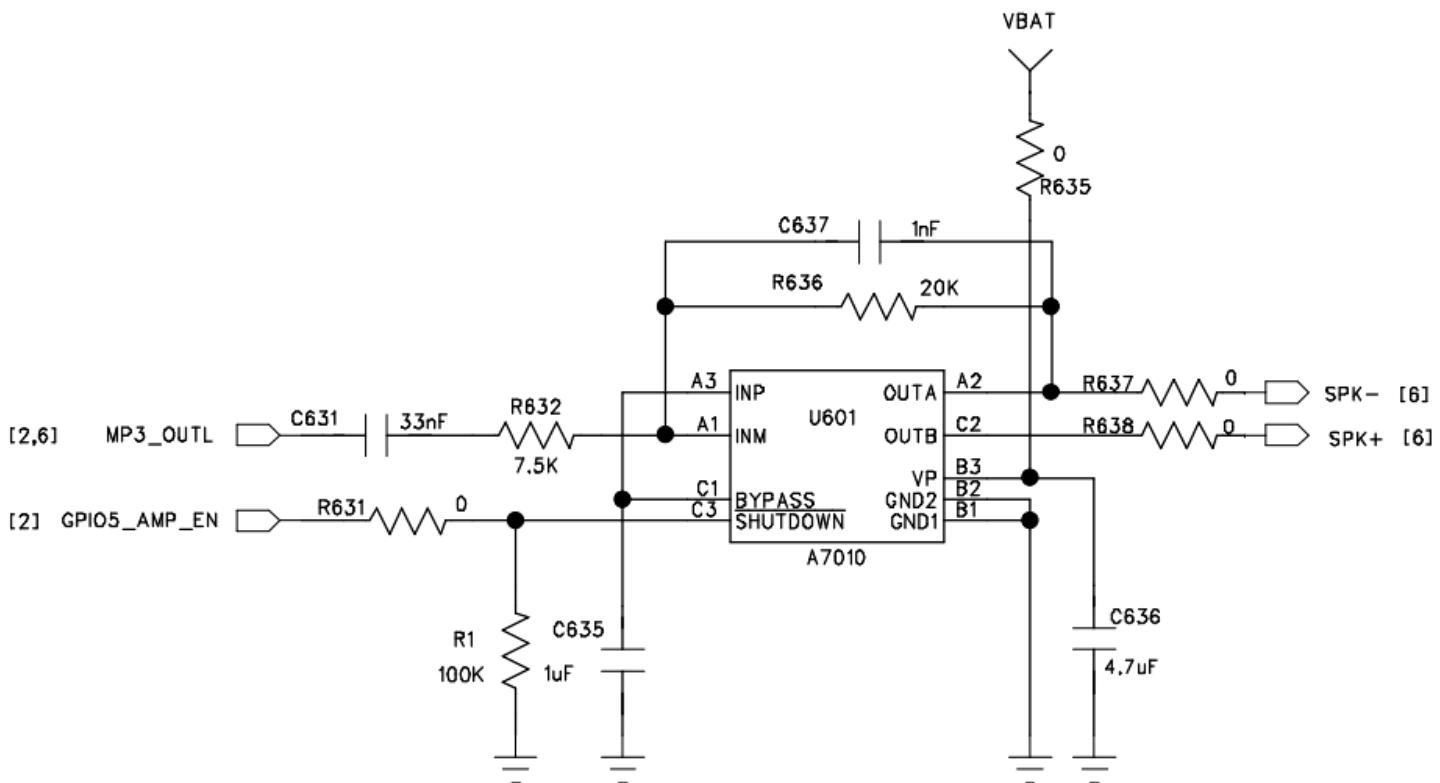


The keypad contains SEND1.

## 7、Keypad Backlight Circuit

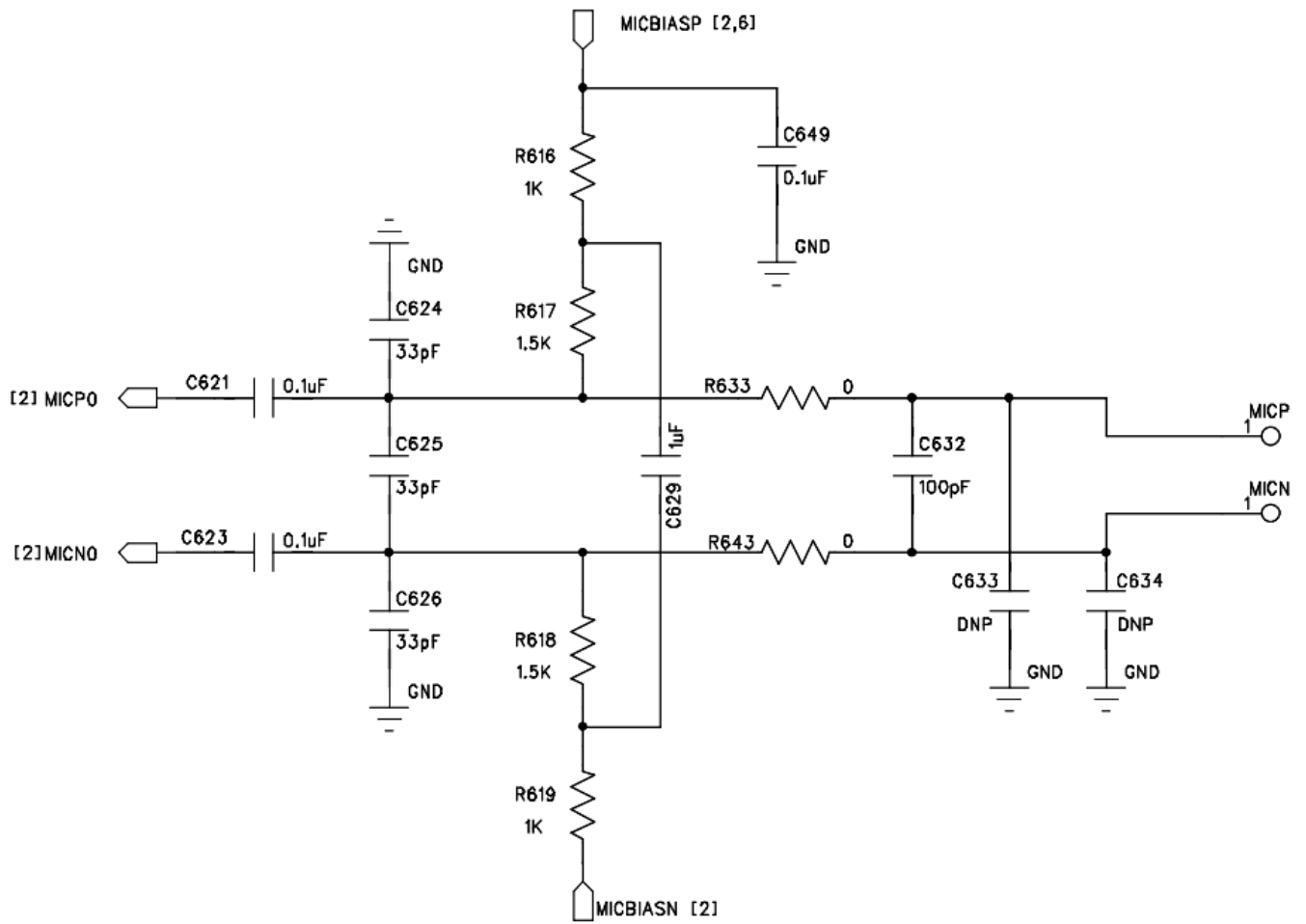
NONE

## 8、Audio Circuit



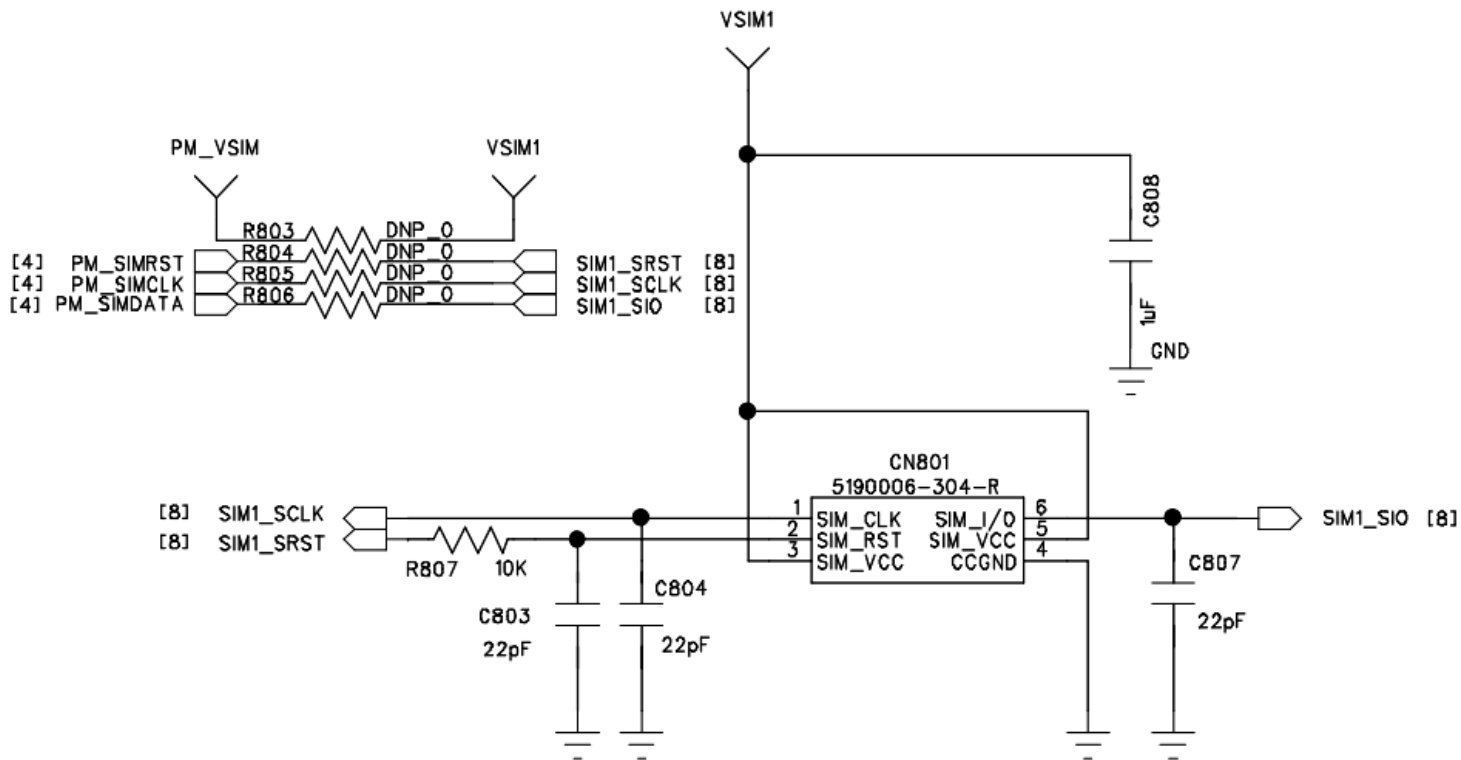
The audio amplifier is A7010, class AB, controlled by the GPIO5\_AMP\_EN. The speaker should use 8 ohm.





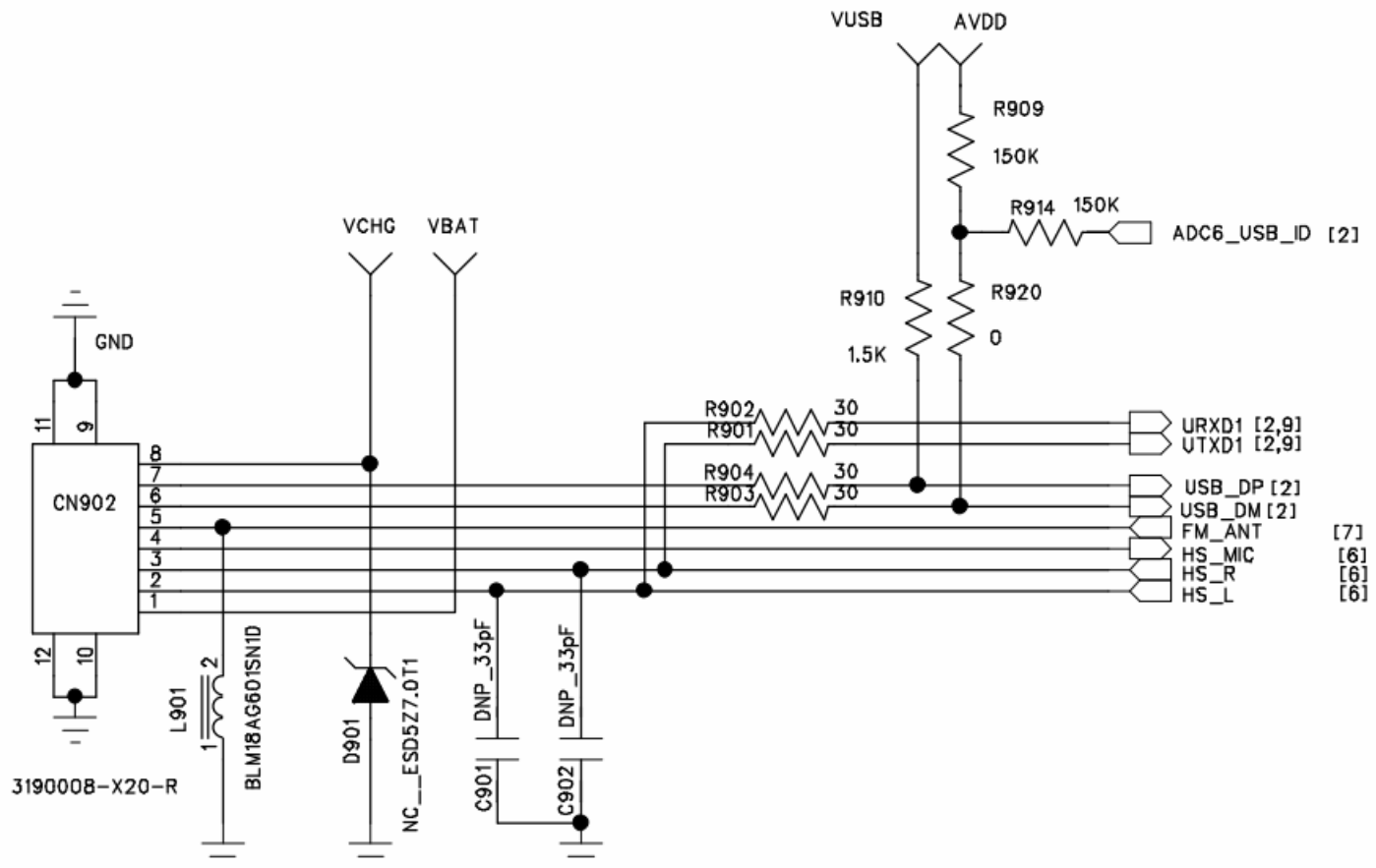
This is mic-phone circuit. mICBIAS provides the bias voltage for micphone.

## 9.SIM Card Circuit



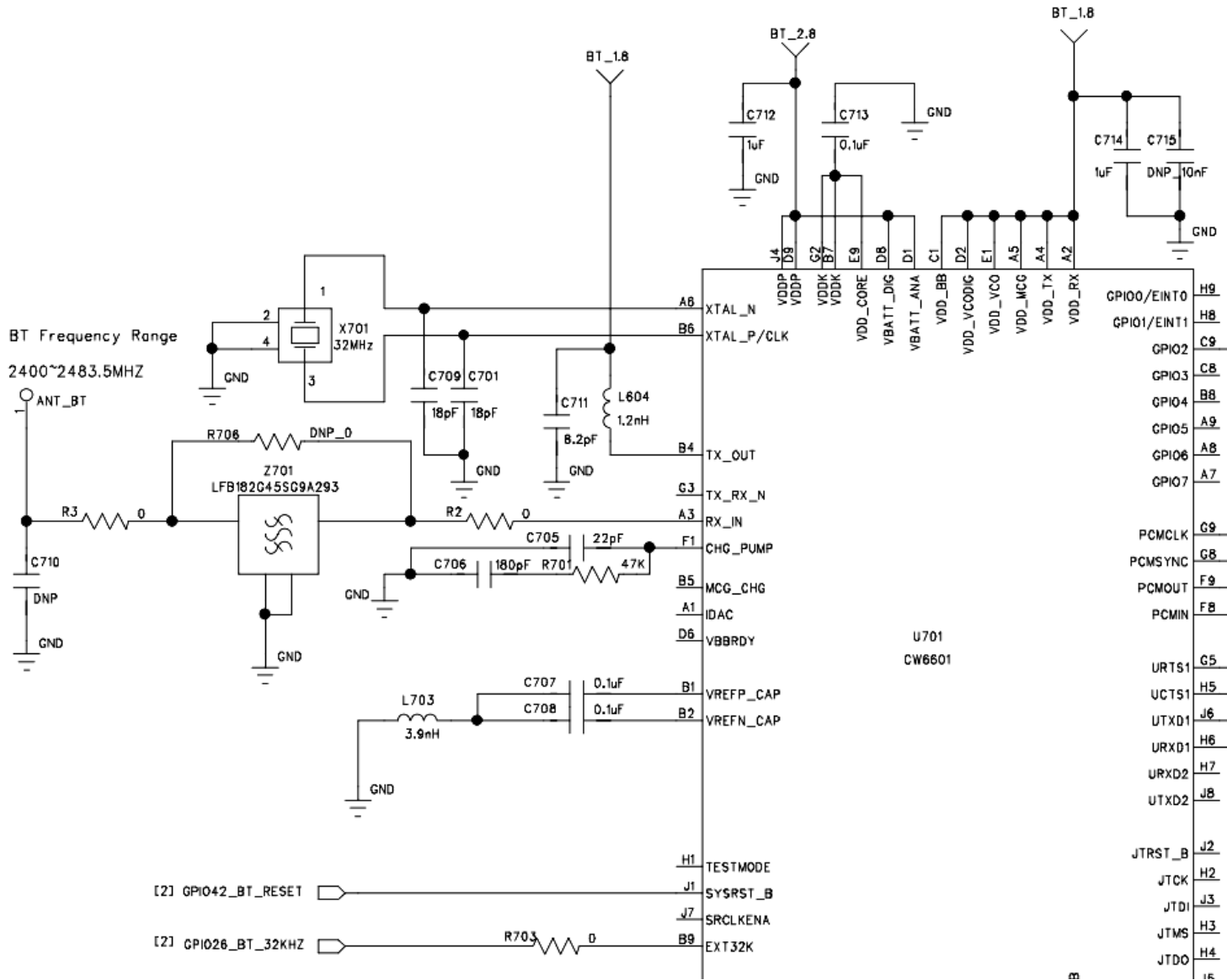
SIM card pin defined as follows  
 VSIM: SIM card voltage supply,  
 IO: Data input/output  
 CLK: Clock signal  
 RST: Reset signal

## 10、 I/O Circuit



The I/O circuit contains earphone port, UART port, USB port, charge input and FM antenna. HS\_R is detecting pin for earphone insert. For normal it is high, and become low when earphone insert.

## 11、Bluetooth Circuit



The Bluetooth chip is MT6601T/BN-L, and the working frequency is 2400~2483.5 MHz