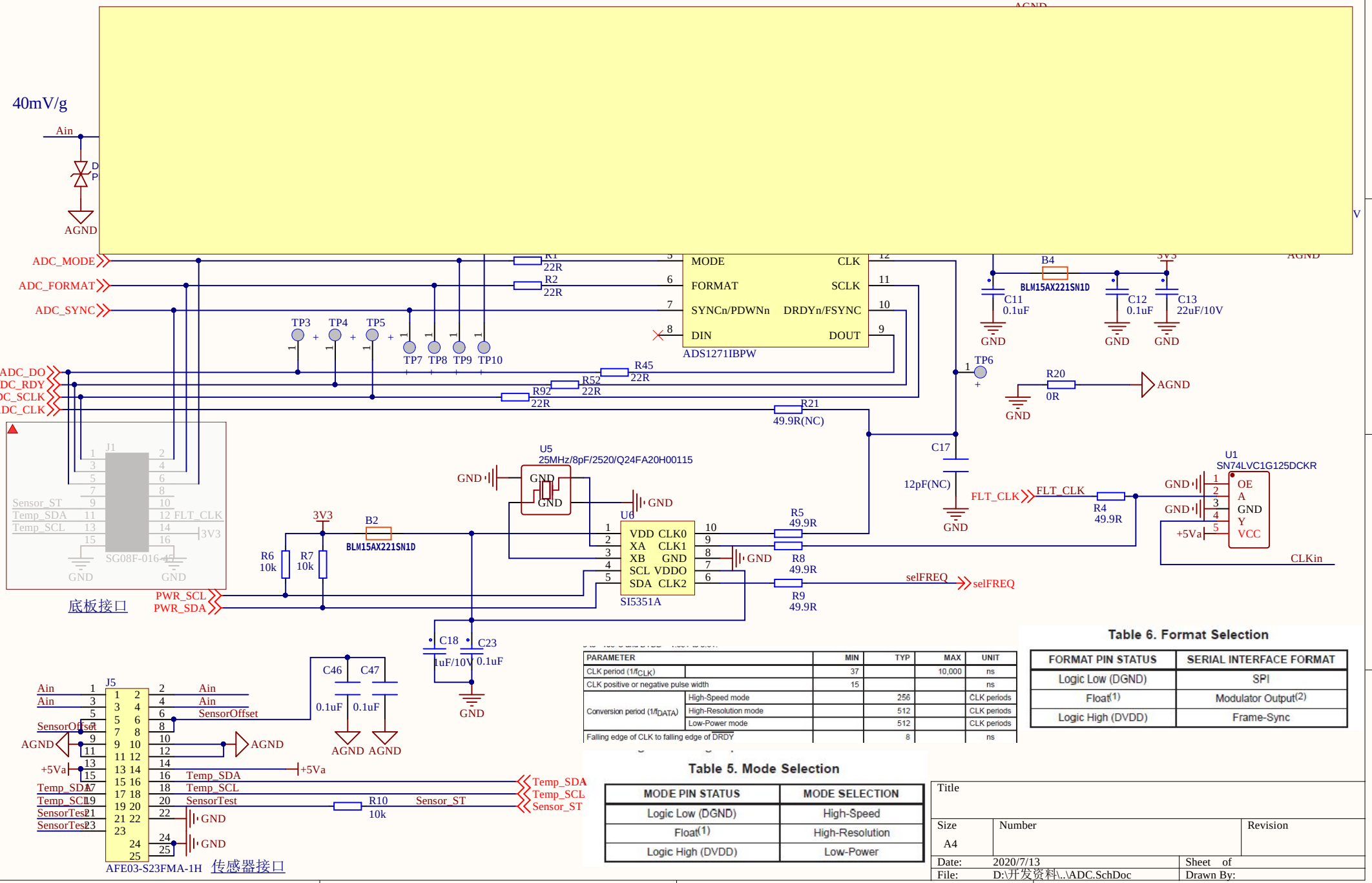


| PARAMETER | | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|
| CLK period ($1/f_{CLK}$) | | 37 | | 10,000 | ns |
| CLK positive or negative pulse width | | 15 | | | ns |
| Conversion period ($1/f_{DATA}$) | High-Speed mode | | 256 | | CLK periods |
| | High-Resolution mode | | 512 | | CLK periods |
| | Low-Power mode | | 512 | | CLK periods |
| Falling edge of CLK to falling edge of $\overline{DRDY}$ | | | 8 | | ns |

**Table 6. Format Selection**

| FORMAT PIN STATUS | SERIAL INTERFACE FORMAT |
|---|---|
| Logic Low (DGND) | SPI |
| Float(1) | Modulator Output(2) |
| Logic High (DVDD) | Frame-Sync |

**Table 5. Mode Selection**

| MODE PIN STATUS | MODE SELECTION |
|---|---|
| Logic Low (DGND) | High-Speed |
| Float(1) | High-Resolution |
| Logic High (DVDD) | Low-Power |

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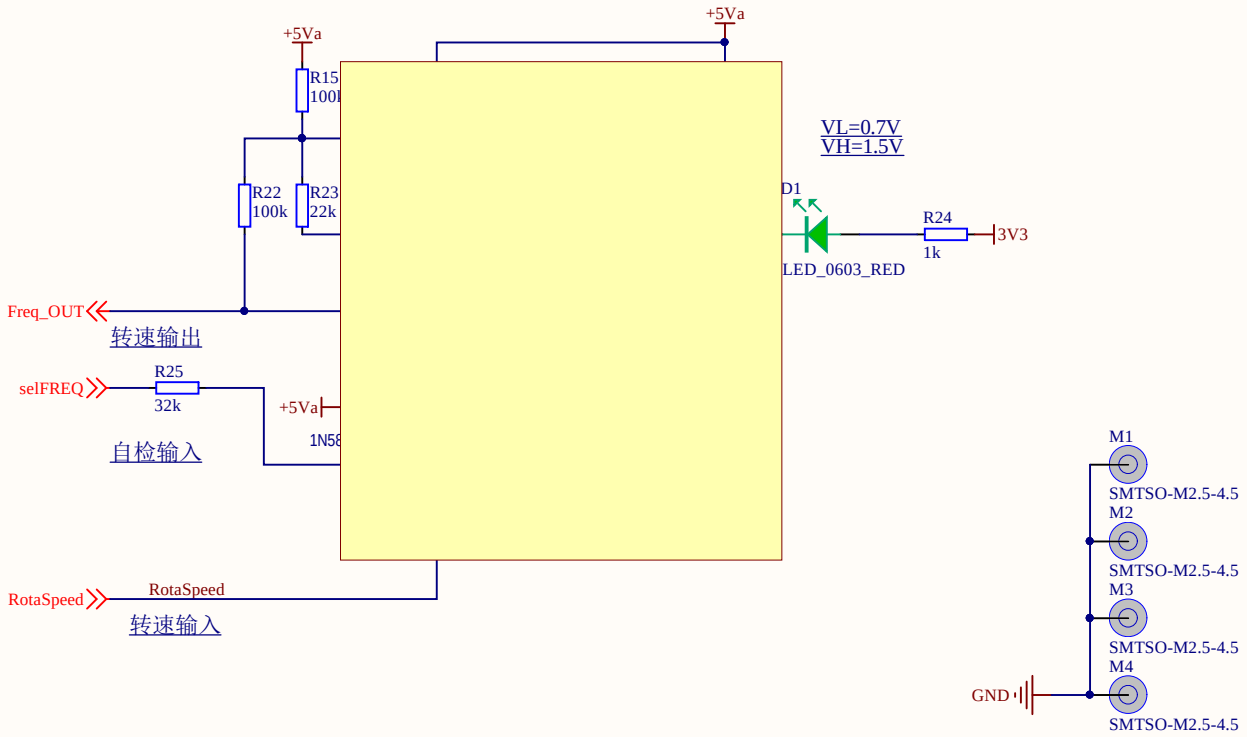


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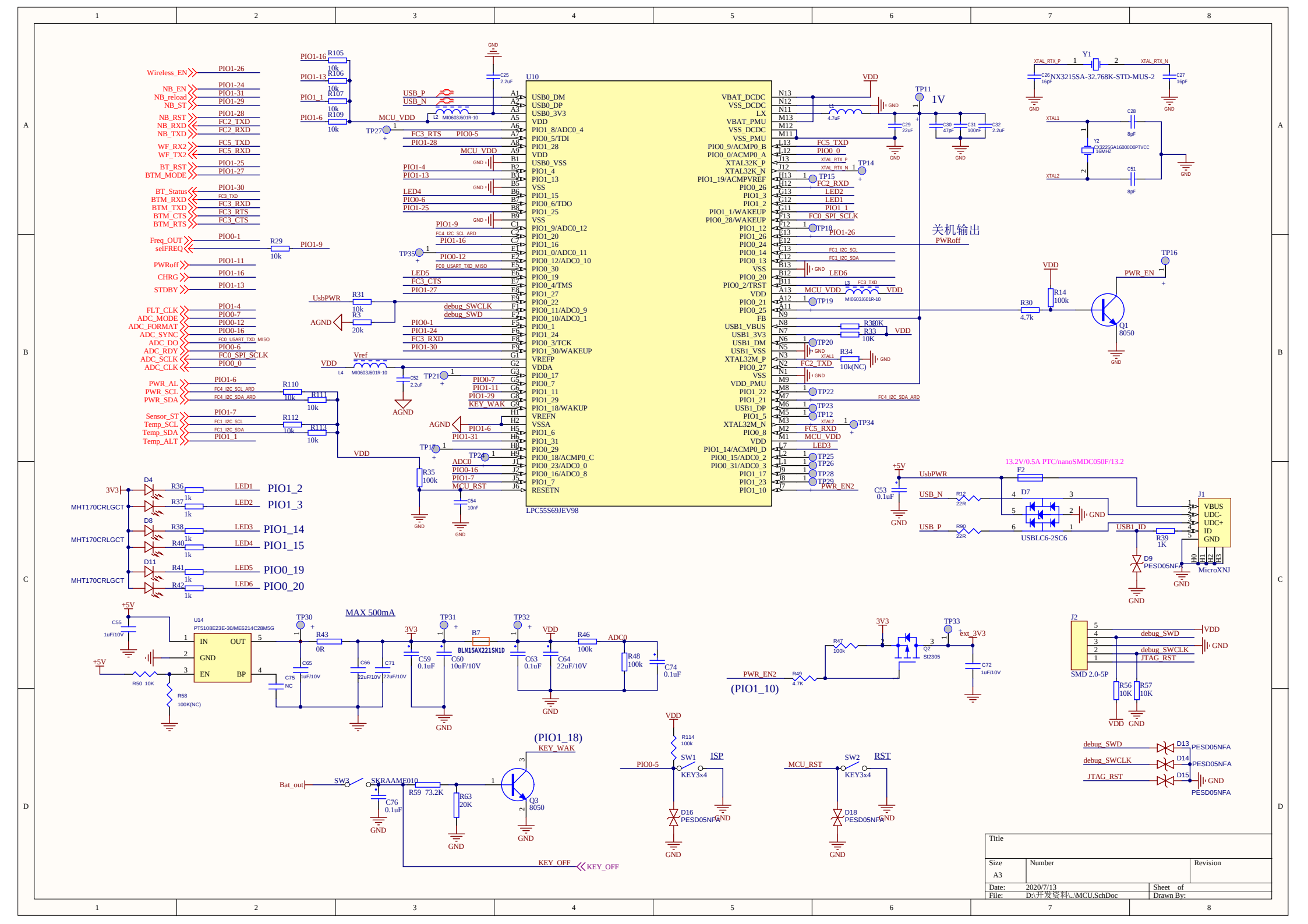
U10
LPC55S69JEV98
USB0_DM
USB0_DP
USB0_3V3
VDD
PIO1_8/ADC0_4
PIO0_5/TDI
PIO1_28
VDD
USB0_VSS
PIO1_4
PIO1_13
VSS
PIO1_15
PIO0_6/TDO
PIO1_25
VSS
PIO1_9/ADC0_12
PIO1_20
PIO1_16
PIO1_0/ADC0_11
PIO0_12/ADC0_10
PIO0_30
PIO0_19
PIO0_4/TMS
PIO1_27
PIO0_22
PIO0_11/ADC0_9
PIO0_10/ADC0_1
PIO0_1
PIO1_24
PIO0_3/TCK
PIO1_30/WAKEUP
VREFP
VDDA
PIO0_17
PIO0_7
PIO1_11
PIO1_29
PIO1_18/WAKUP
VREFN
VSSA
PIO1_6
PIO1_31
PIO0_29
PIO0_18/ACMP0_C
PIO0_23/ADC0_0
PIO0_16/ADC0_8
PIO1_7
RESETN
VBAT_DCDC
VSS_DCDC
LX
VBAT_PMU
VSS_DCDC
VSS_PMU
PIO0_9/ACMP0_B
PIO0_0/ACMP0_A
XTAL32K_P
XTAL32K_N
PIO1_19/ACMPVREF
PIO0_26
PIO1_3
PIO1_2
PIO1_1/WAKEUP
PIO0_28/WAKEUP
PIO1_12
PIO1_26
PIO0_24
PIO0_14
PIO0_13
VSS
PIO0_20
PIO0_2/TRST
VDD
PIO0_21
PIO0_25
FB
USB1_VBUS
USB1_3V3
USB1_DM
USB1_VSS
XTAL32M_P
PIO0_27
VSS
VDD_PMU
PIO1_22
PIO1_21
USB1_DP
PIO1_5
XTAL32M_N
PIO0_8
VDD
PIO1_14/ACMP0_D
PIO0_15/ADC0_2
PIO0_31/ADC0_3
PIO1_17
PIO1_23
PIO1_10
Wireless_EN
NB_EN
NB_reload
NB_ST
NB_RST
NB_RXD
NB_TXD
WF_RX2
WF_TX2
BT_RST
BTM_MODE
BT_Status
BTM_RXD
BTM_TXD
BTM_CTS
BTM_RTS
Freq_OUT
selFREQ
PWRoff
CHRG
STDBY
FLT_CLK
ADC_MODE
ADC_FORMAT
ADC_SYNC
ADC_DO
ADC_RDY
ADC_SCLK
ADC_CLK
PWR_AL
PWR_SCL
PWR_SDA
Sensor_ST
Temp_SCL
Temp_SDA
Temp_ALT
USB_P
USB_N
MCU_VDD
UsbPWR
AGND
Vref
debug_SWCLK
debug_SWD
KEY_WAK
ADC0
MCU_RST
关机输出
PWRoff
PWR_EN
PWR_EN2
13.2V/0.5A PTC/nanoSMDC050F/13.2
USBLC6-2SC6
MicroXNJ
PESD05NFA
MAX 500mA
U14
PT5108E23E-30/ME6214C28M5G
BLM15AX221SN1D
MHT170CRLGCT
LED1
LED2
LED3
LED4
LED5
LED6
PIO1_2
PIO1_3
PIO1_14
PIO1_15
PIO0_19
PIO0_20
(PIO1_10)
(PIO1_18)
KEY_WAK
KEY_OFF
ISP
RST
SW1
SW2
SW3
SKRAAME010
KEY3x4
Q1
8050
Q2
SI2305
Q3
8050
SMD 2.0-5P
NX3215SA-32.768K-STD-MUS-2
CY3225GA16000D0PTVCC
1V
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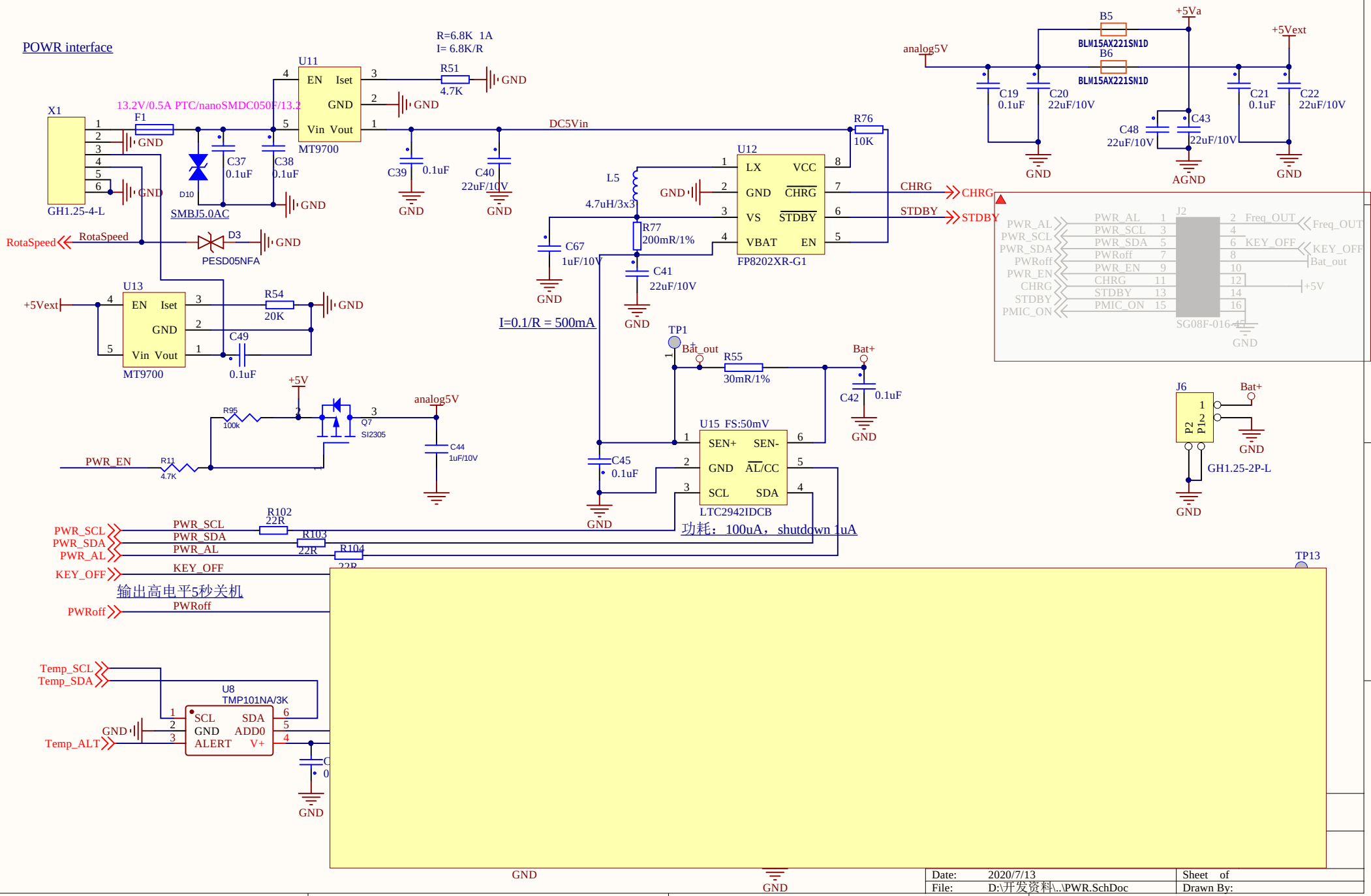
POWR interface
R=6.8K 1A
I= 6.8K/R
U11
MT9700
R51
4.7K
X1
GH1.25-4-L
13.2V/0.5A PTC/nanoSMDC050F/13.2
F1
D10
SMBJ5.0AC
C37
0.1uF
C38
0.1uF
C39
0.1uF
C40
22uF/10V
DC5Vin
R76
10K
U12
FP8202XR-G1
L5
4.7uH/3x3
R77
200mR/1%
C67
1uF/10V
C41
22uF/10V
CHRG
STDBY
RotaSpeed
D3
PESD05NFA
U13
MT9700
R54
20K
C49
0.1uF
+5Vext
I=0.1/R = 500mA
TP1
Bat_out
R55
30mR/1%
Bat+
C42
0.1uF
U15 FS:50mV
LTC2942IDCB
C45
0.1uF
功耗：100uA，shutdown 1uA
R95
100k
Q7
SI2305
analog5V
C44
1uF/10V
PWR_EN
R11
4.7K
R102
22R
R103
22R
R104
22R
PWR_SCL
PWR_SDA
PWR_AL
KEY_OFF
输出高电平5秒关机
PWRoff
Temp_SCL
Temp_SDA
Temp_ALT
U8
TMP101NA/3K
B5
B6
BLM15AX221SN1D
+5Va
+5Vext
C19
0.1uF
C20
22uF/10V
C21
0.1uF
C22
22uF/10V
C48
22uF/10V
C43
22uF/10V
AGND
J2
SG08F-016-45
Freq_OUT
KEY_OFF
Bat_out
+5V
J6
GH1.25-2P-L
TP13
GND
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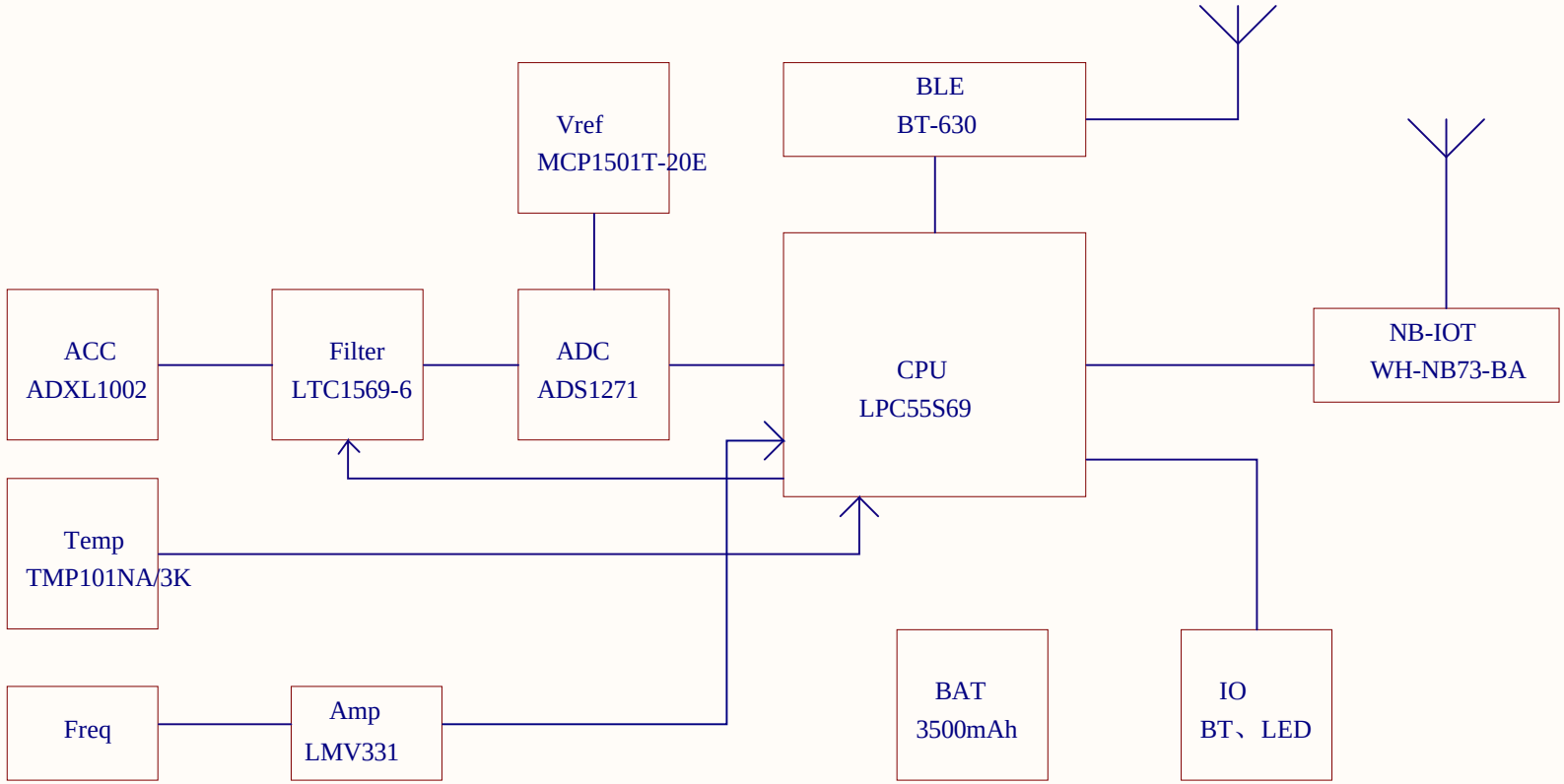


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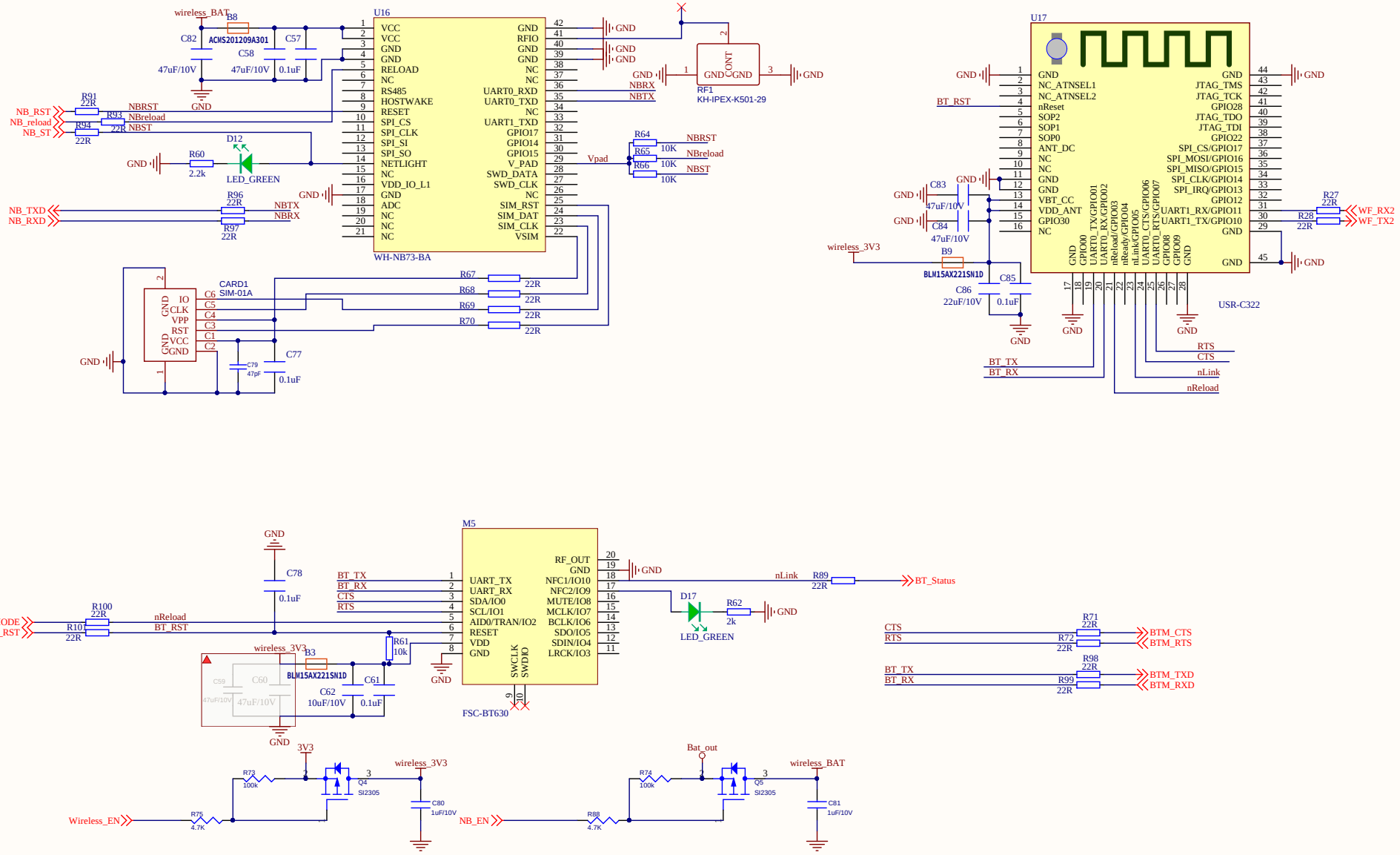


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