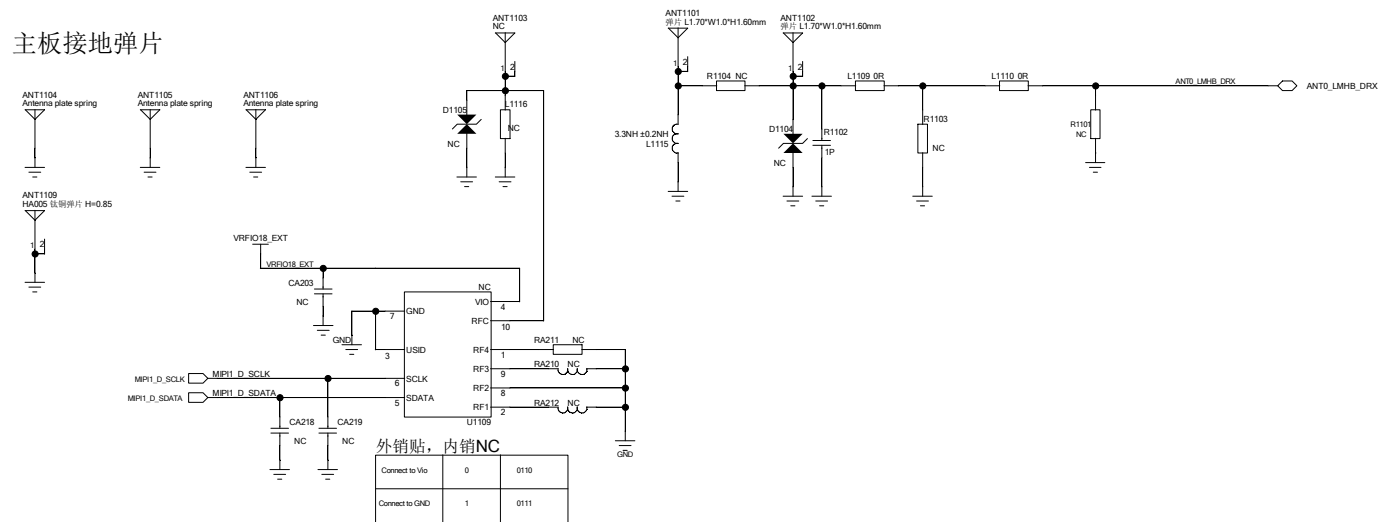


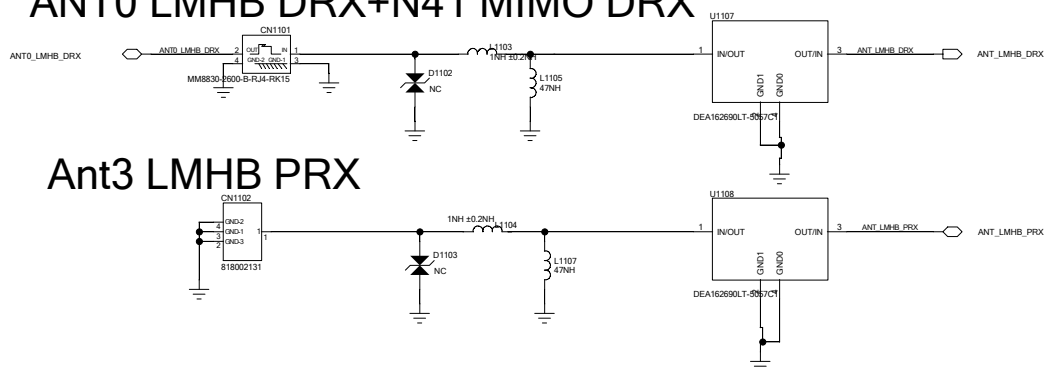
ANT0 LMHB DRX+N41 MIMO DRX

上天线

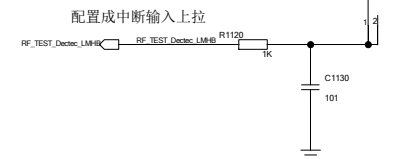
主板接地弹片



ANT0 LMHB DRX+N41 MIMO DRX



压板传导测试检测电路

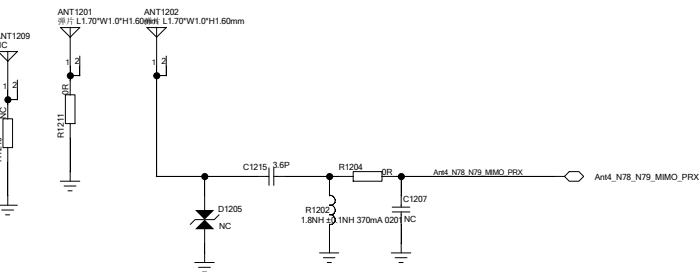


	Sign	Date	Type:
Drawn By			Draw No: Schematic
Checked By			Sheet of 44 Ver:
Standard By			
Approved By			

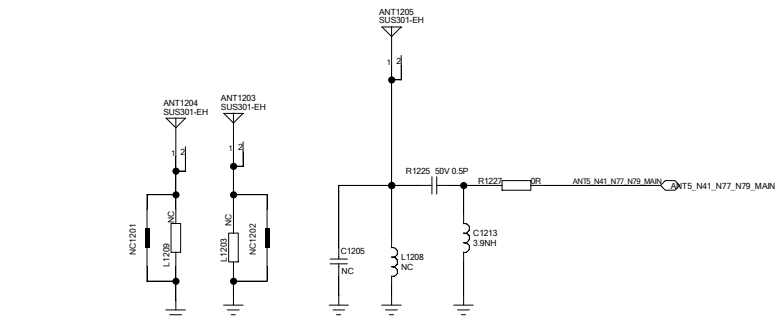
realme

Ant6 N78/79 PRX

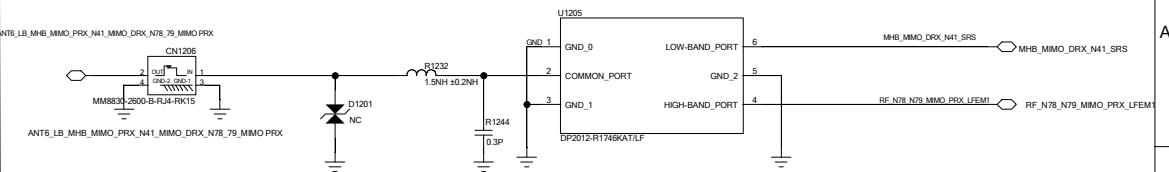
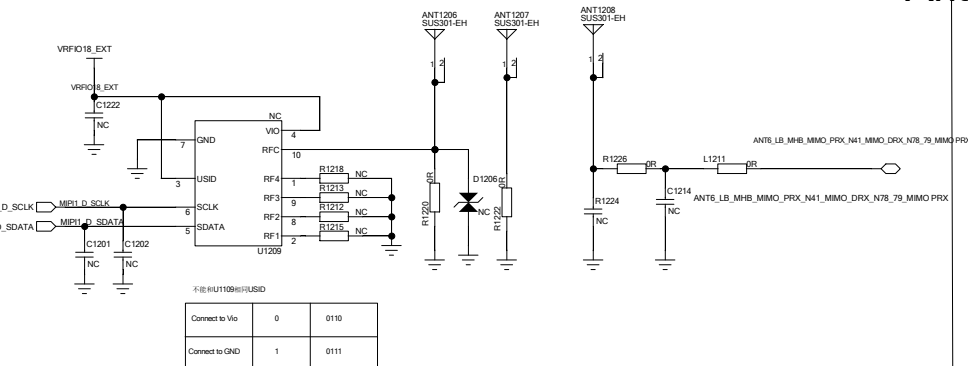
Ant4 MHB DRX MIMO+N41 DRX+N78/79 PRX MIMO



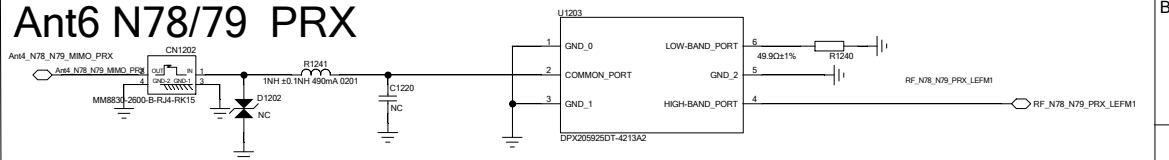
ANT1 n41 PRX+n78/79 DRX



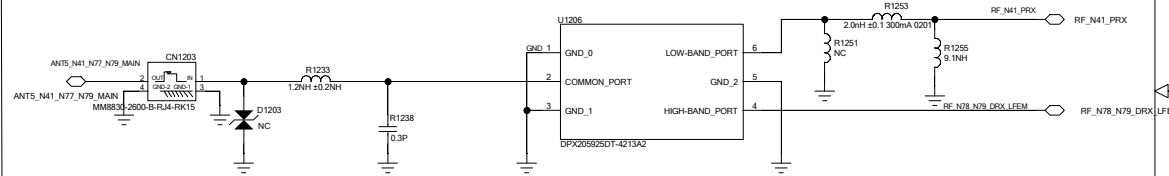
Ant4 MHB DRX MIMO+N41 DRX+N78/79 PRX MIMO



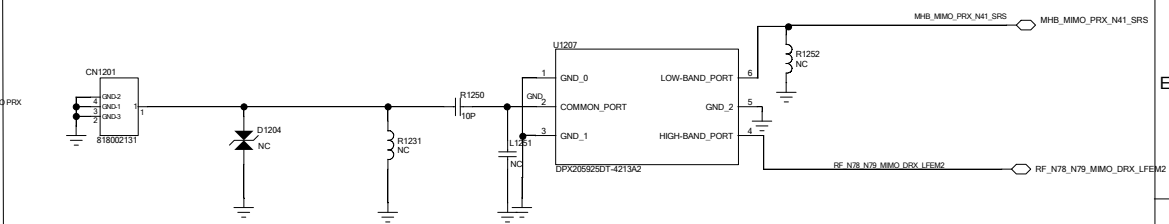
Ant6 N78/79 PRX



ANT1 n41 PRX+n78/79 DRX



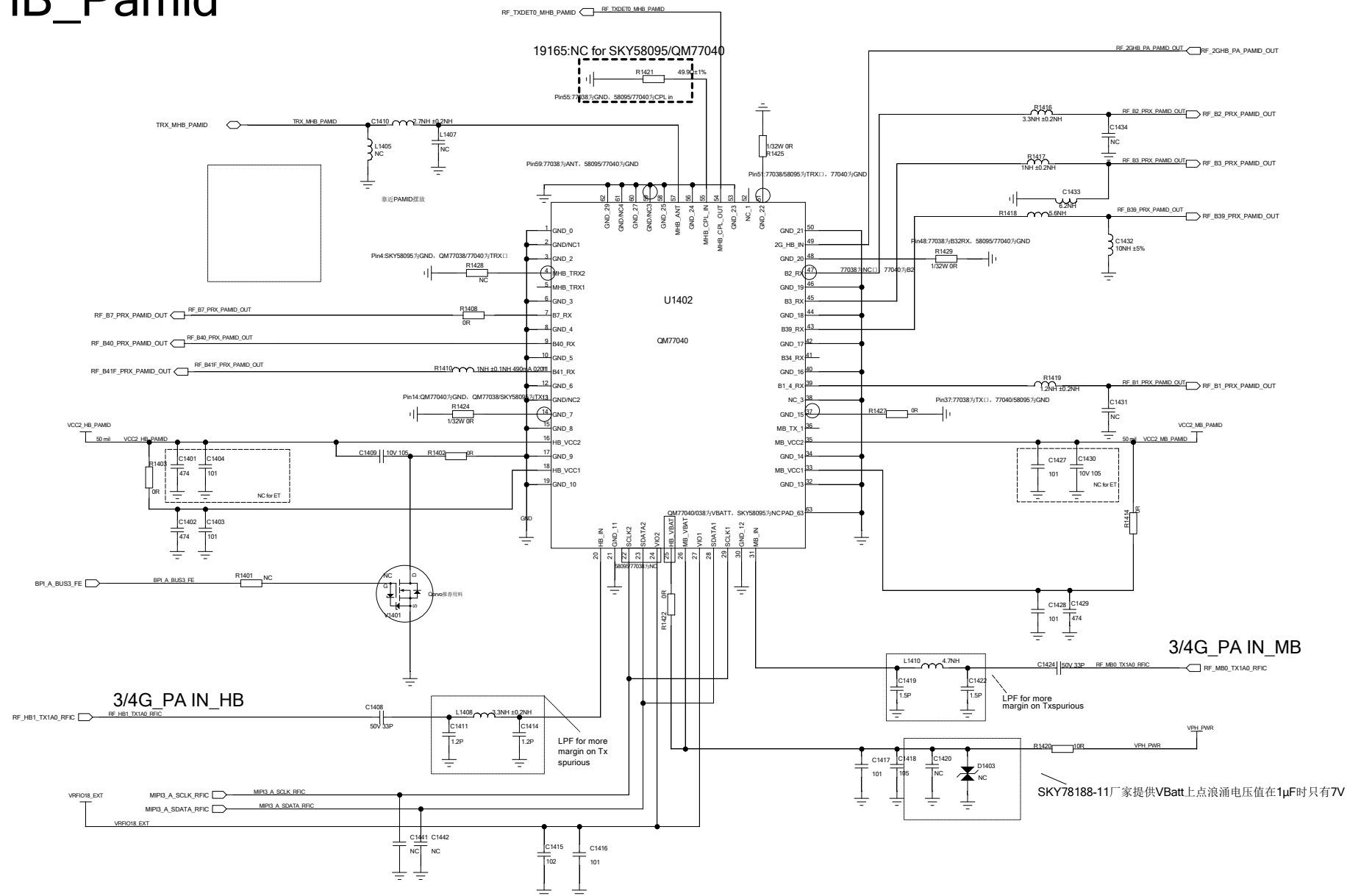
Ant2 MHB PRX MIMO+n41 PRX MIMO (SA) +n78/79 DRX MIMO




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Drawn By		Draw No: Schematic
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Standard By		
Approved By		

realme

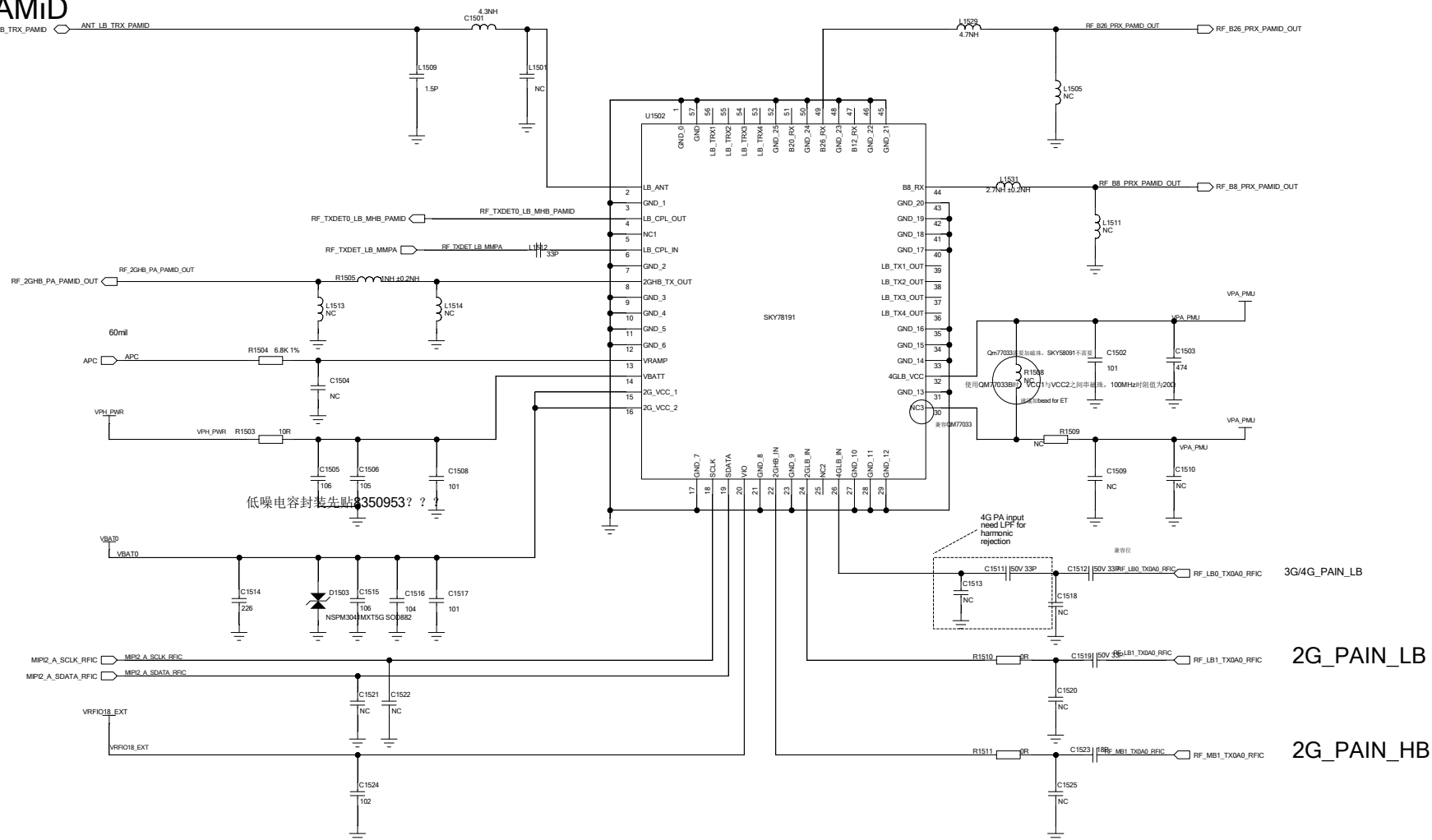
MHB Pamid




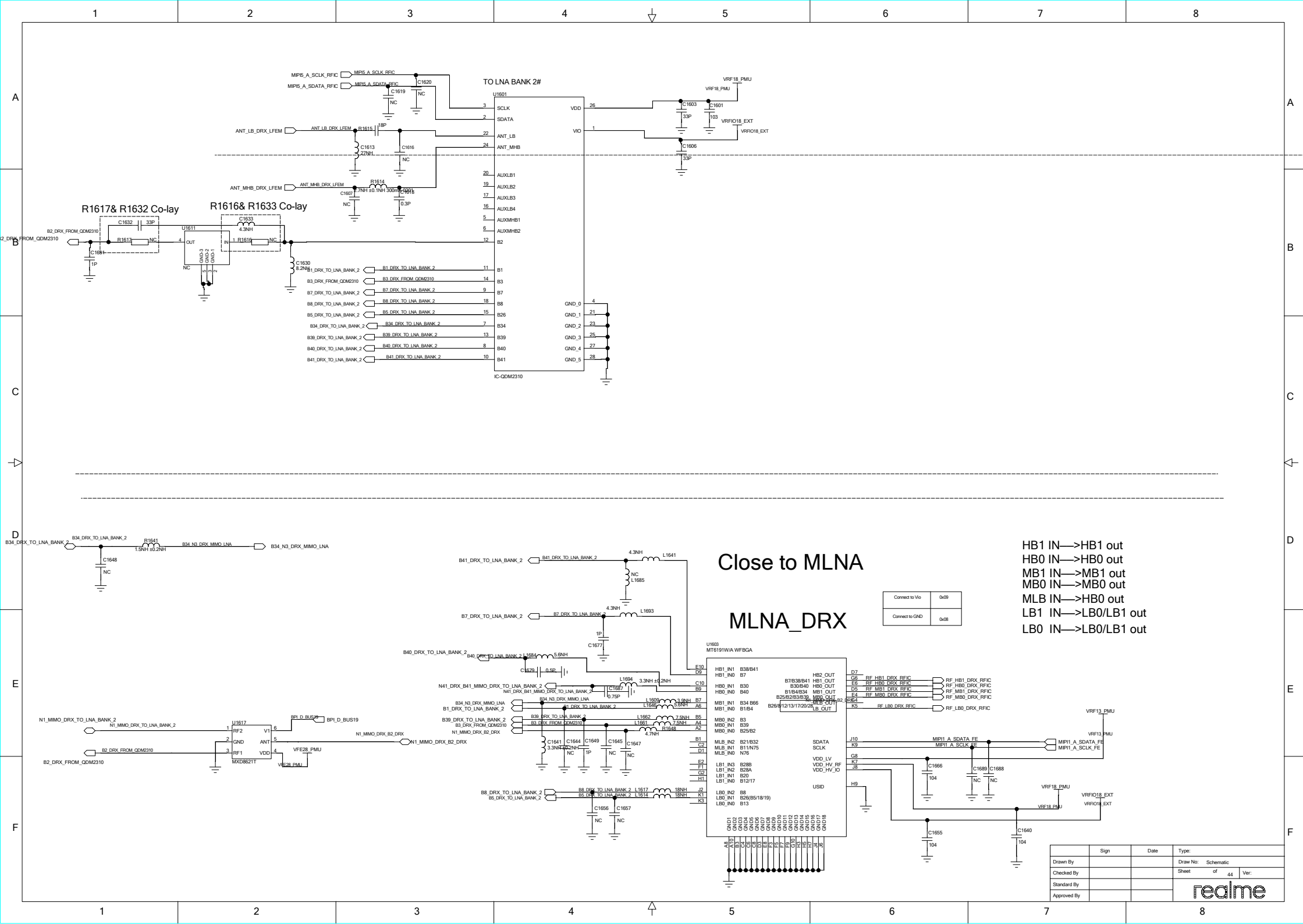
Connect to MLNA

Connect to MENA			
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Drawn By		Draw No: Schematic	
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Standard By			
Approved By			

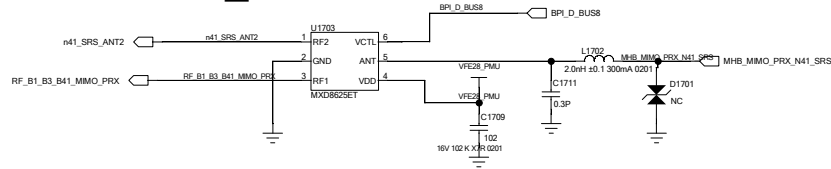
LB PAMiD



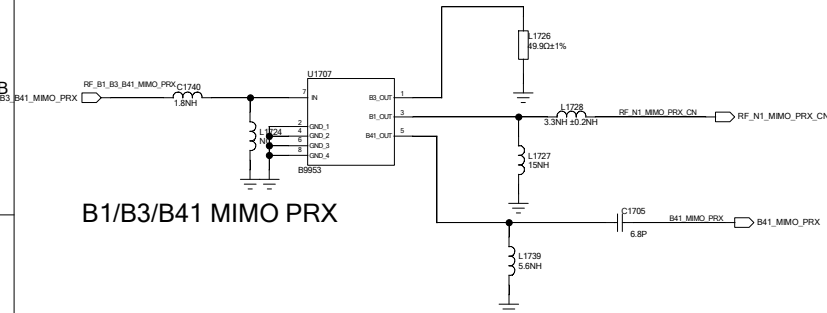
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Drawn By			Draw No: Schematic	
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Standard By				
Approved By				



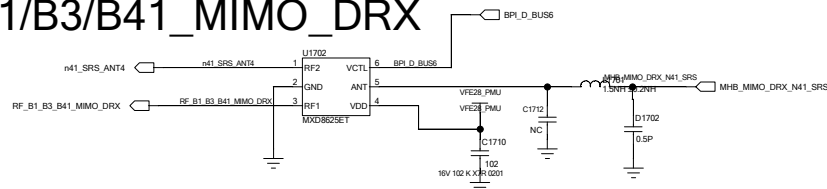
MIMO_PRX



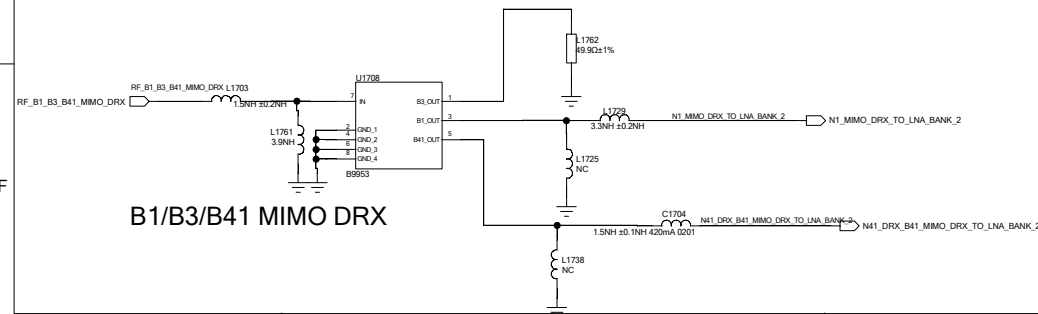
B1/B3/B41 MIMO PRX



B1/B3/B41_MIMO_DRX

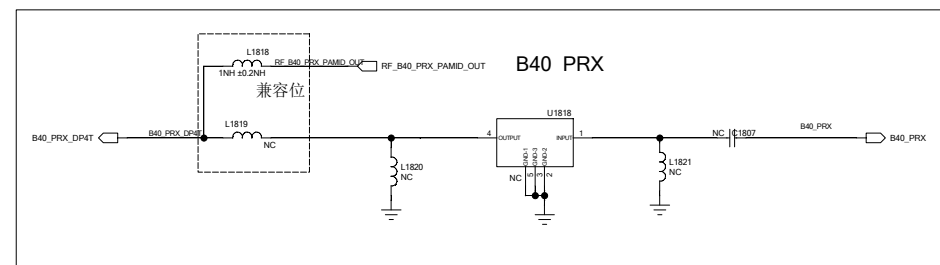
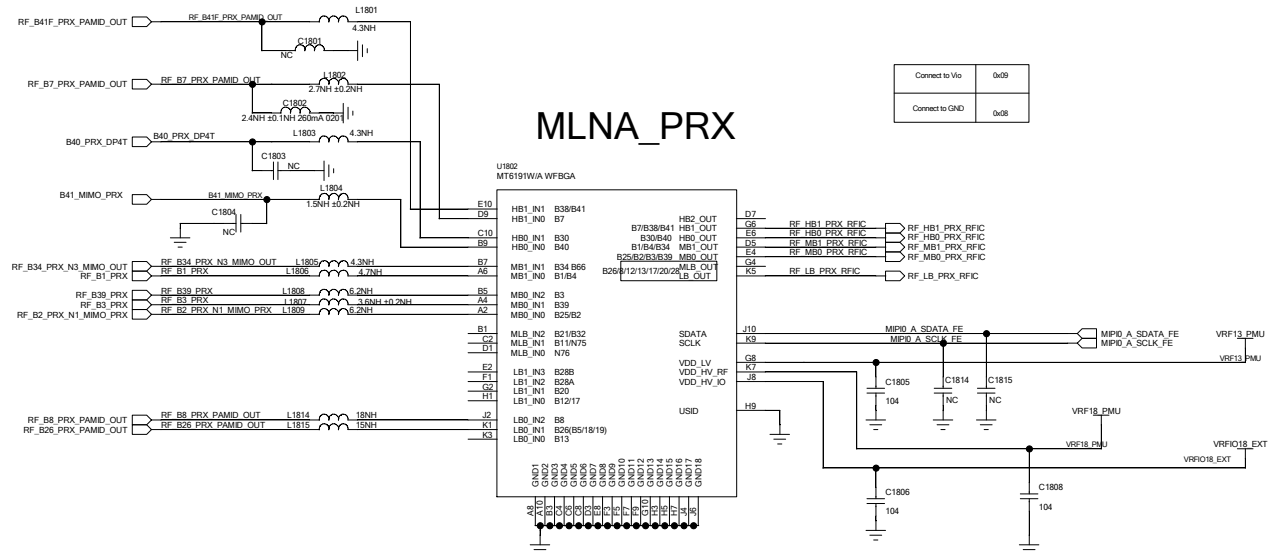
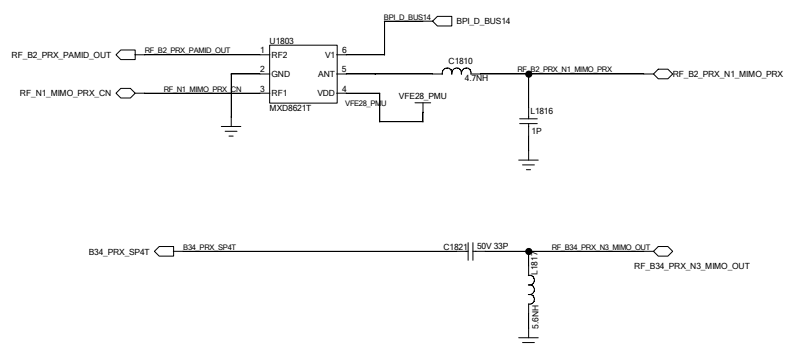
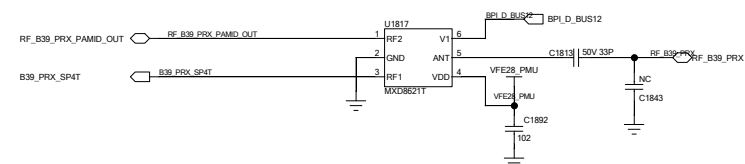
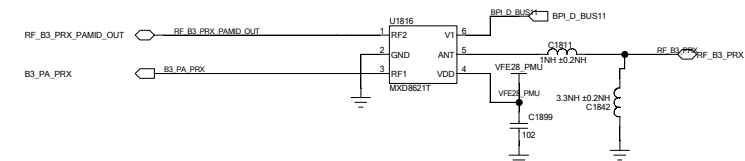
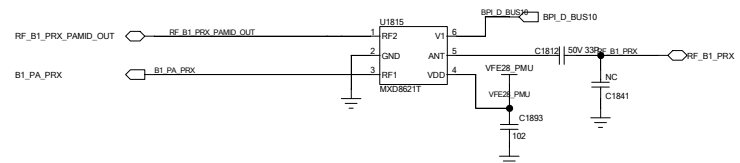


B1/B3/B41 MIMO DRX




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Standard By			Sheet of 44 Ver:
Approved By			

realme



HB2 out is reserved
 HB1 IN→HB1 out
 HB0 IN→HB0 out
 MB1 IN→MB1 out
 MB0 IN→MB0 out
 MLB IN→HB0 out
 LB1 IN→LB0/LB1 out
 LB0 IN→LB0/LB1 out

Connect to Vio	0x09
Connect to GND	0x08

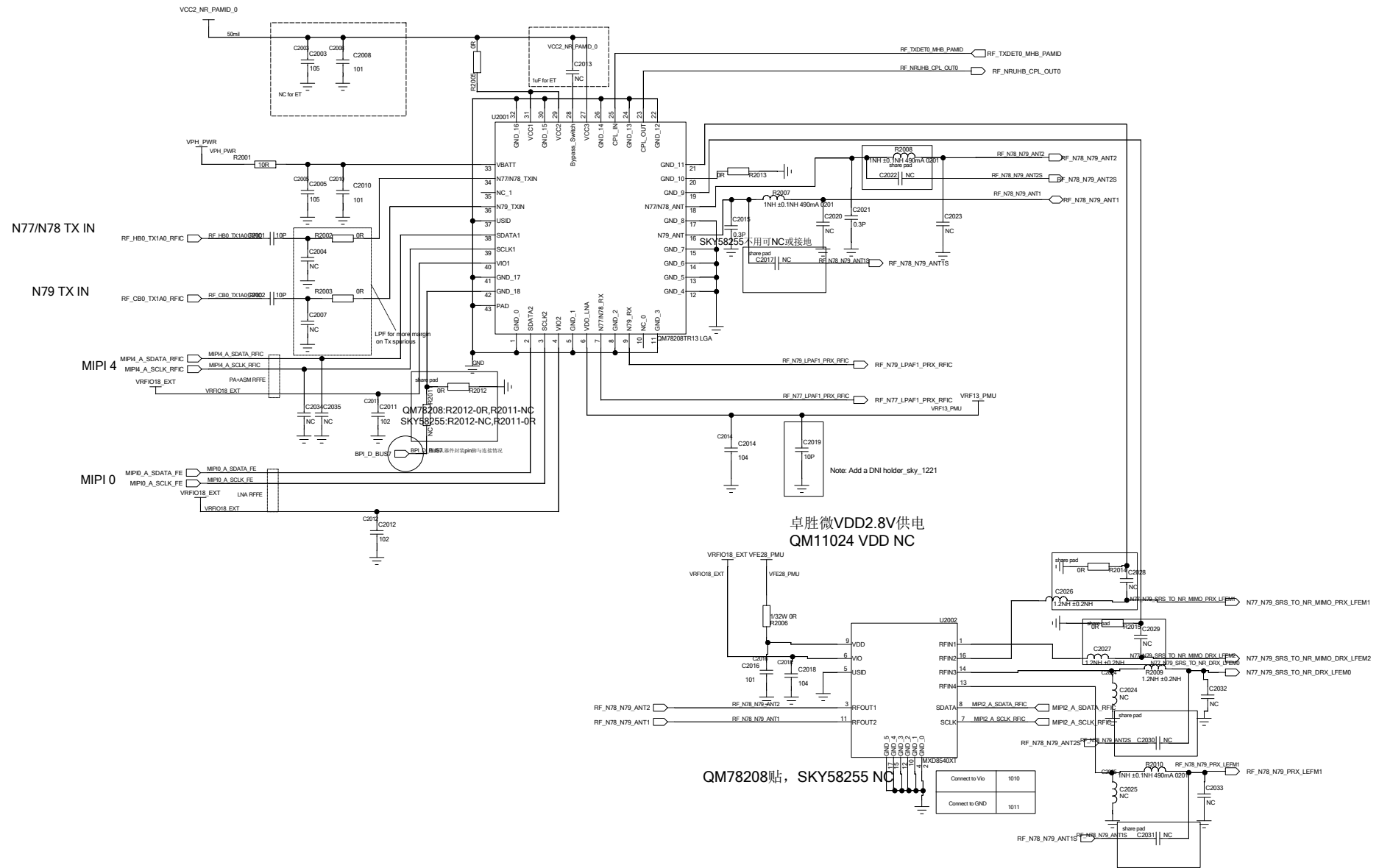
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Drawn By			Draw No: Schematic	
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Approved By				


* MTK参考电路中该模块所有电容耐压值均为50V

	1	2	3	4	5	6	7	8
A								
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D								
E								
F								

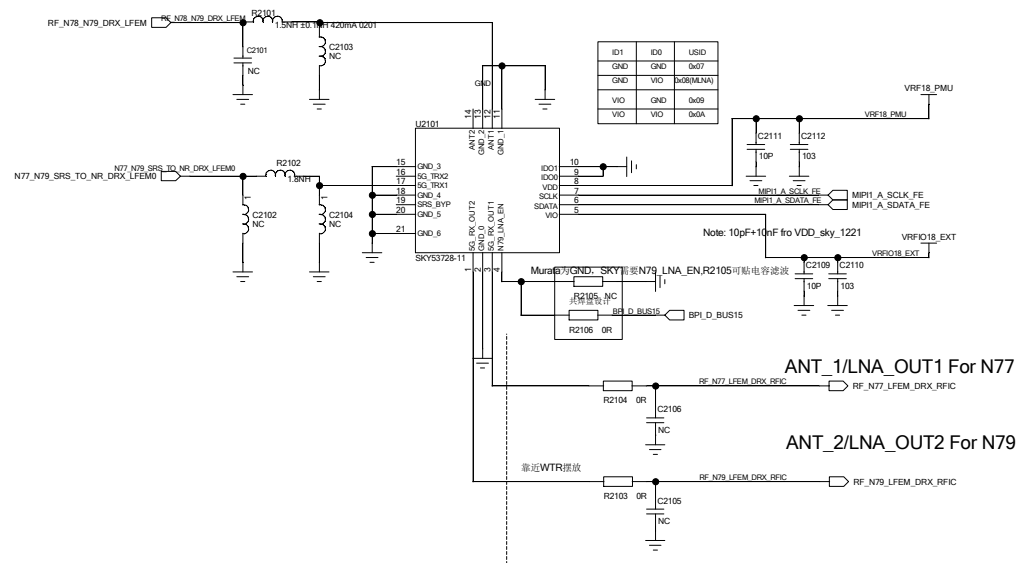
	Sign	Date	Type:	
Drawn By			Draw No: Schematic	
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Standard By			realme	
Approved By				

NR PAMID 0(N77/79Main)



	Sign	Date	Type:	
Drawn By			Draw No: Schematic	
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Standard By				
Approved By				

NR_LFEM_DRX

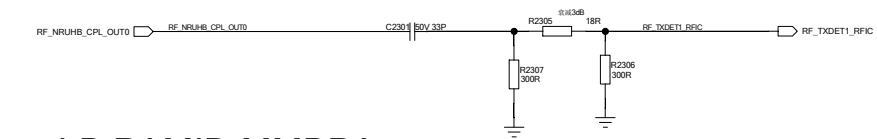


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Standard By		
Approved By		

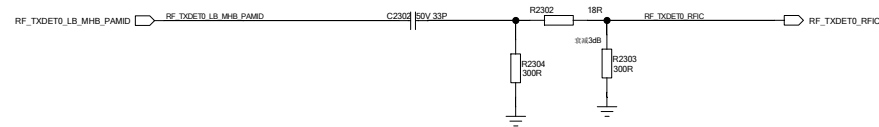
realme

TXDET

NR MHB PAMID

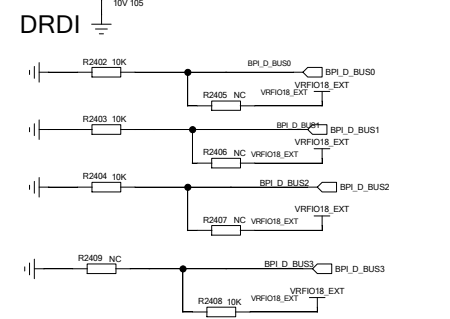
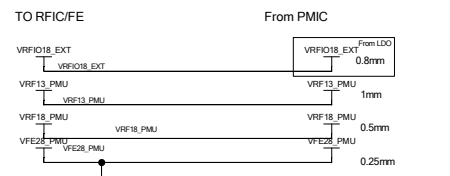
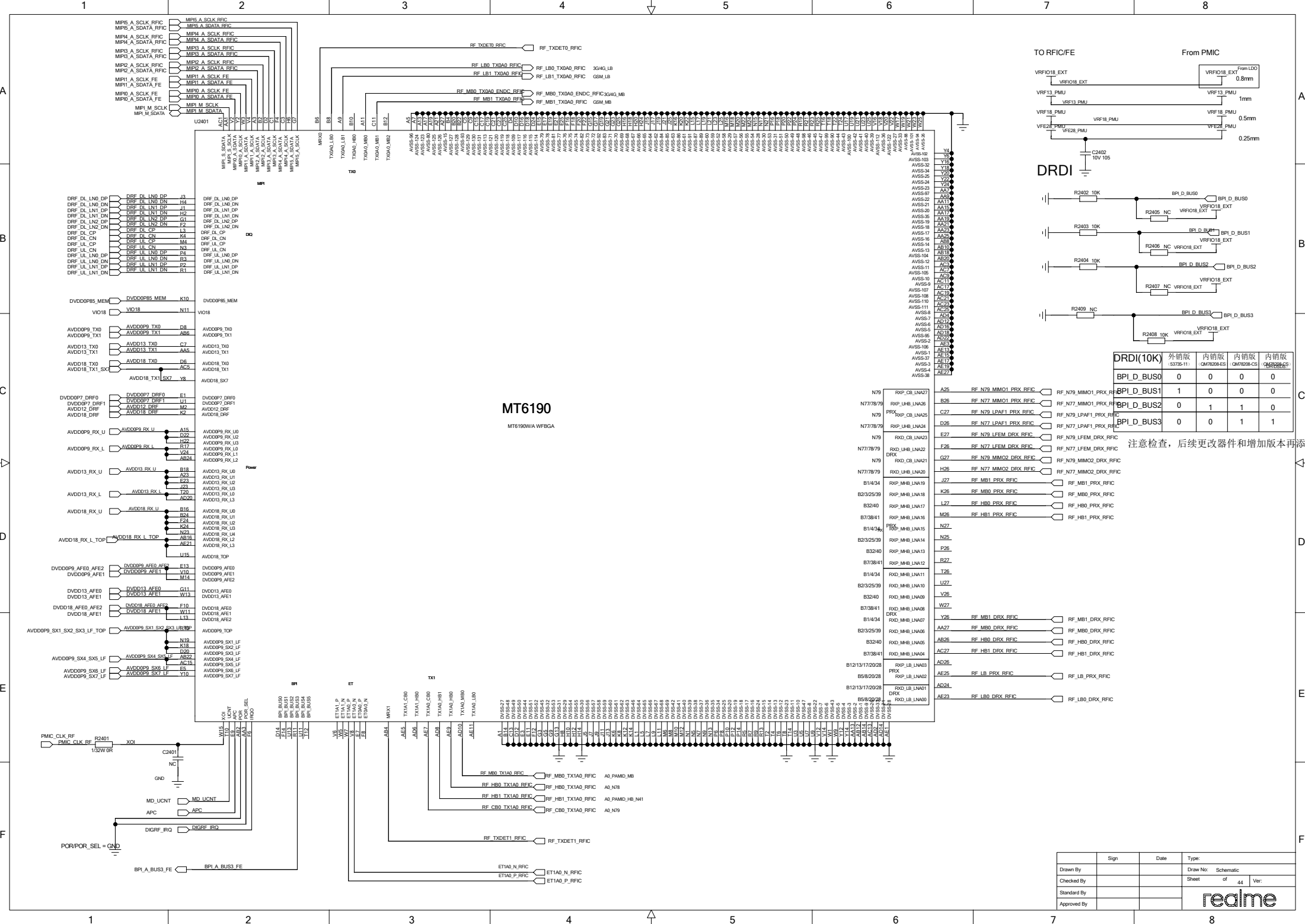


LB PAMID MMBPA



	Sign	Date	Type:
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Standard By			
Approved By			





DRDI(10K)	外销版 (S375-11)	内销版 QW70208-CS	内销版 QW70208-CS	内销版 QW70208-CS
BPL_D_BUS0	0	0	0	0
BPL_D_BUS1	1	0	0	0
BPL_D_BUS2	0	1	1	0
BPL_D_BUS3	0	0	1	1

注意检查，后续更改器件和增加版本再添加

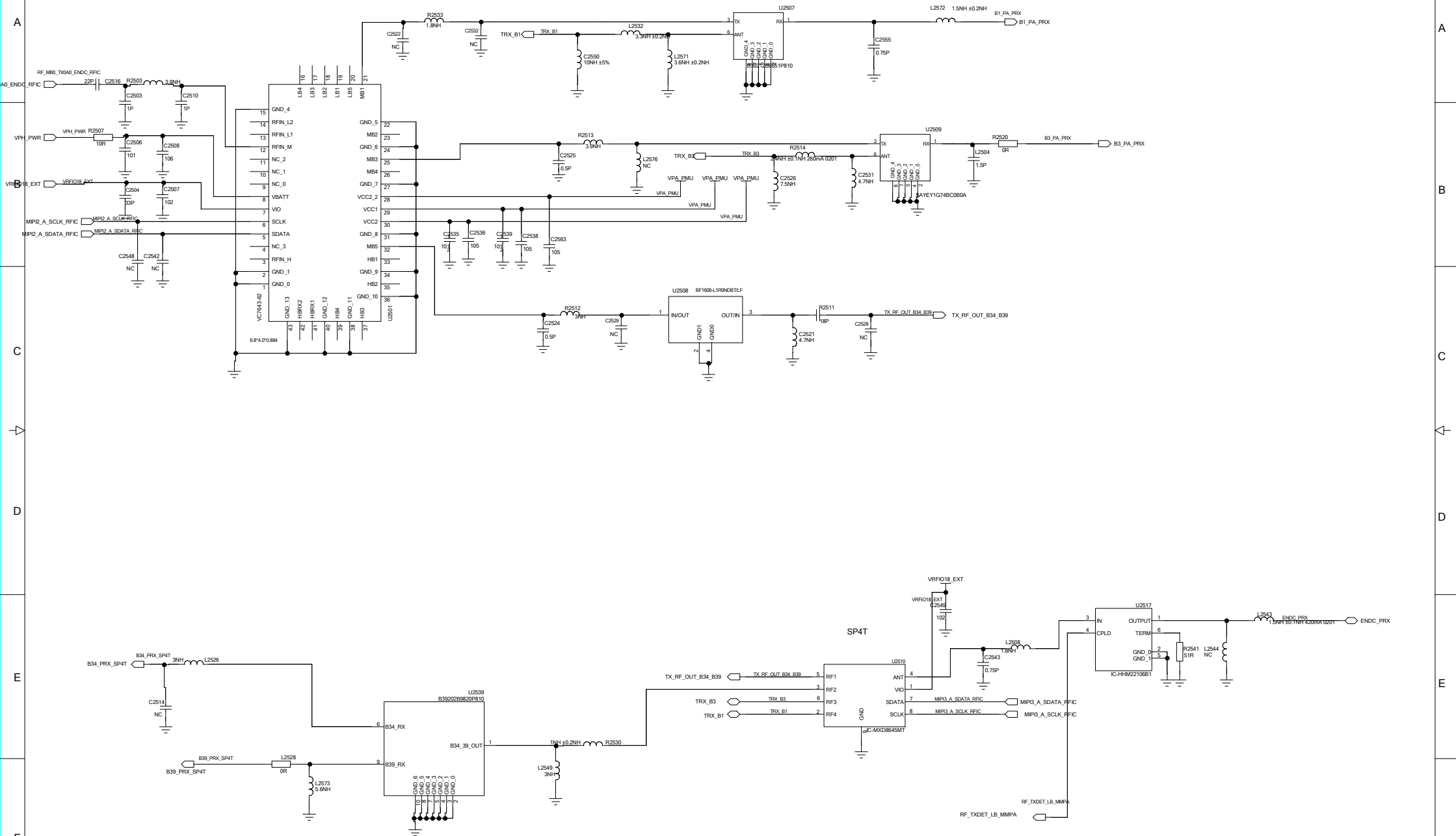
MT6190


MT6190W/A WFBGA

Sign	Date	Type
Drawn By	Draw No	Schematic
Checked By	Sheet	of 44 Ver:
Standard By		
Approved By		

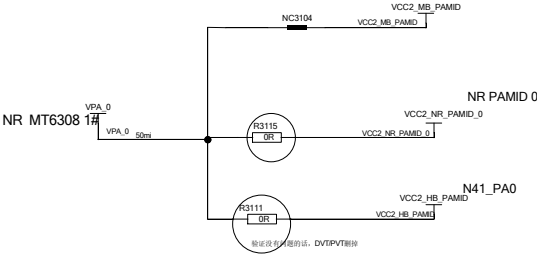
realme

B1 TRX



	Sign	Date	Type:	
Drawn By			Draw No: Schematic	
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Standard By				
Approved By				

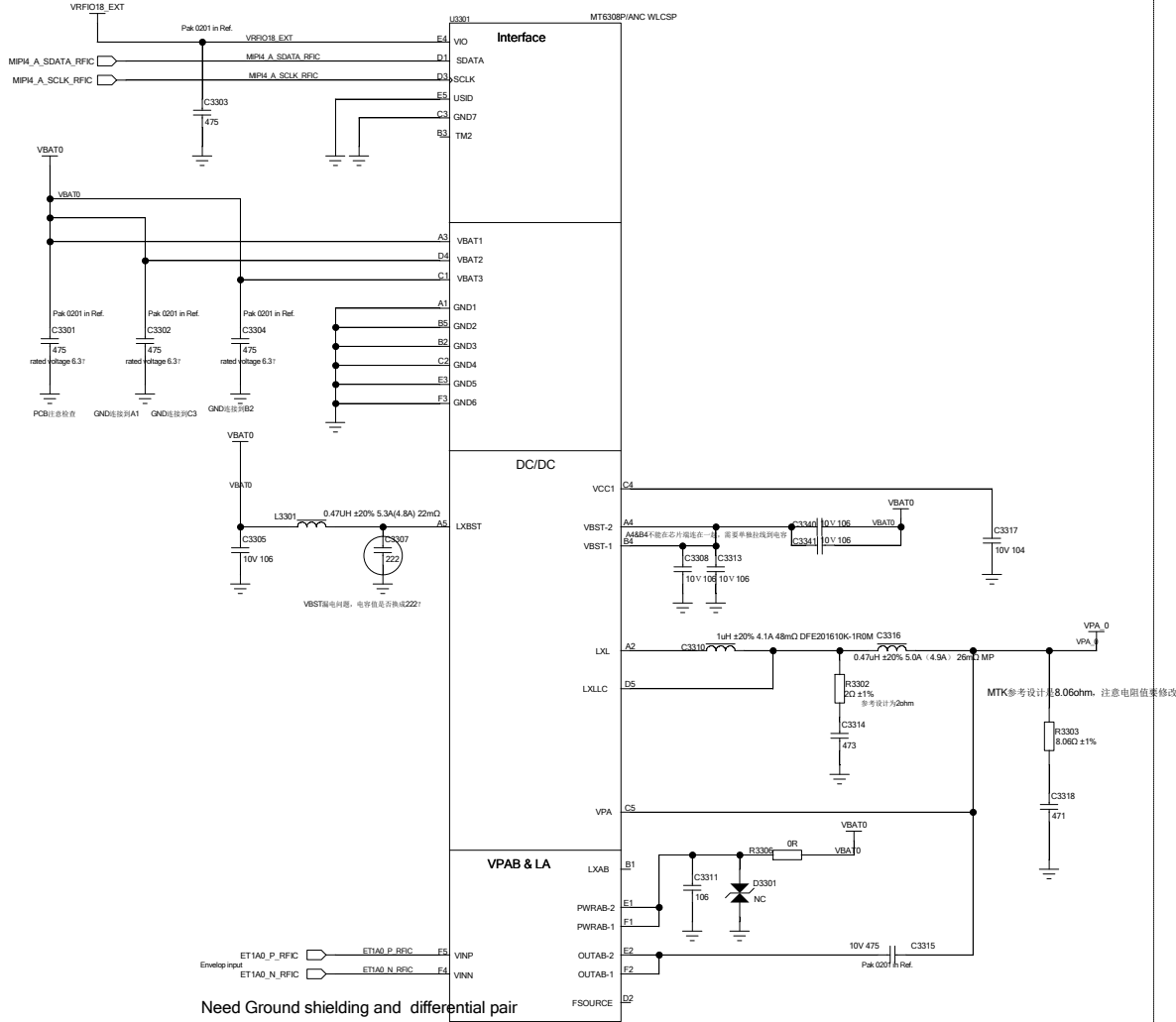
MT6308 ET供电转接



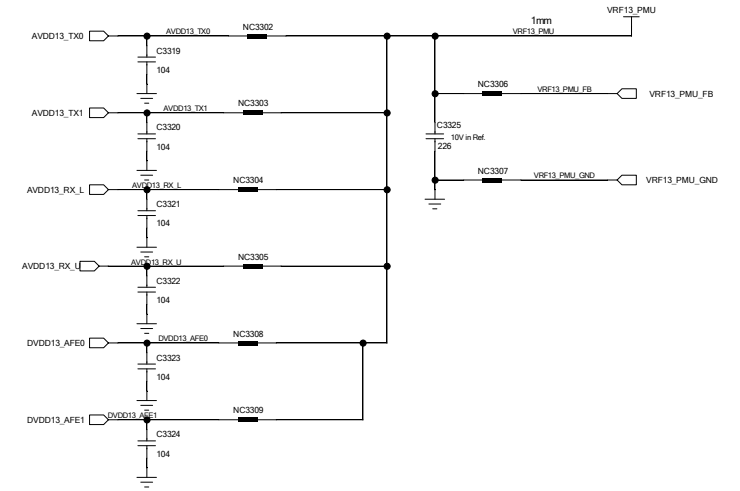
	Sign	Date	Type:	
Drawn By			Draw No: Schematic	
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Standard By			realme	
Approved By				

NR_PAMID + N41 PAD /APT Ref Design

MT6308 1#



MT6190供电TX部分



Sign	Date	Type
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Standard By		
Approved By		

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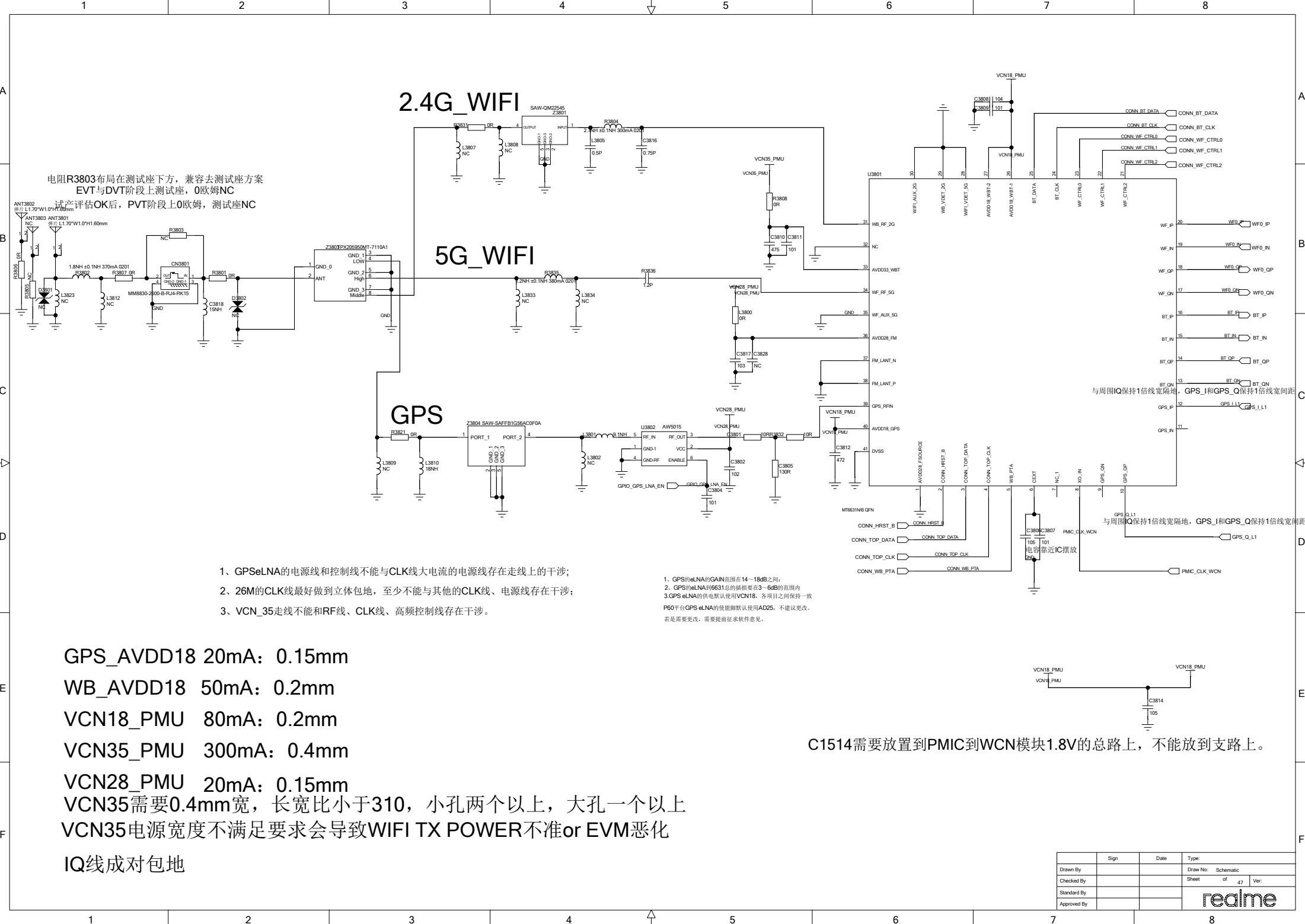
B

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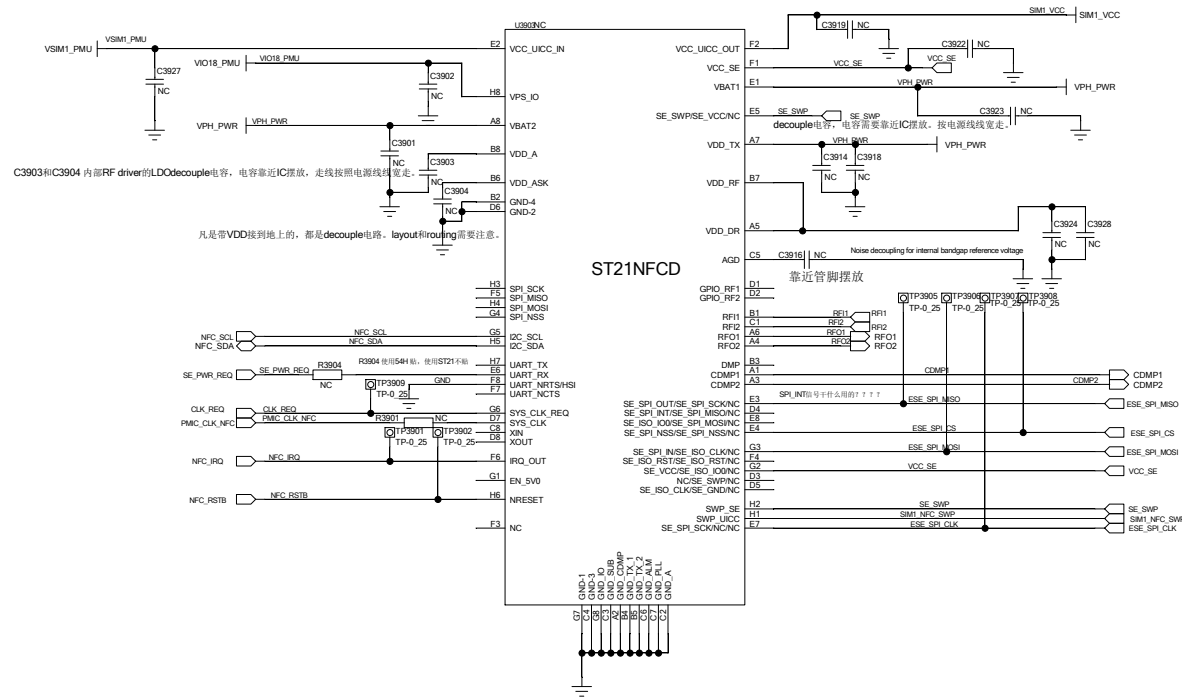
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NFC



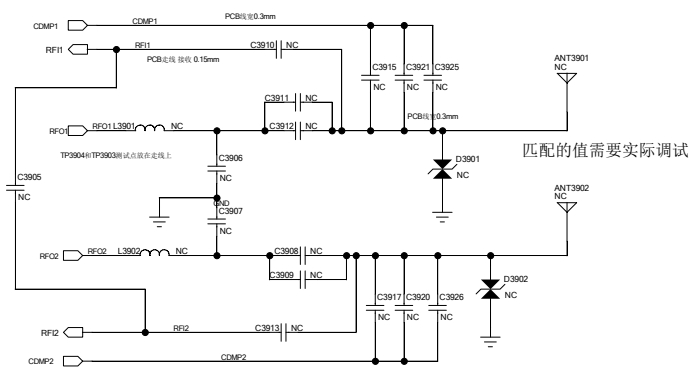
线宽要求:
1. 100

NEGd

NFC电源走线线宽要求:

- 1、到VDD_TX的VPH_PWR走线宽度要达到0.3mm以上；
- 2、VPH_PWR到VBAT1&VBAT2 要到到0.15mm，然后分到两个电源管脚分别为0.1mm。

为确保BB IO口和NFC IC IO口上电的一时序的一致，VPS_IO需要接到系统BB的GPIO口电源上。

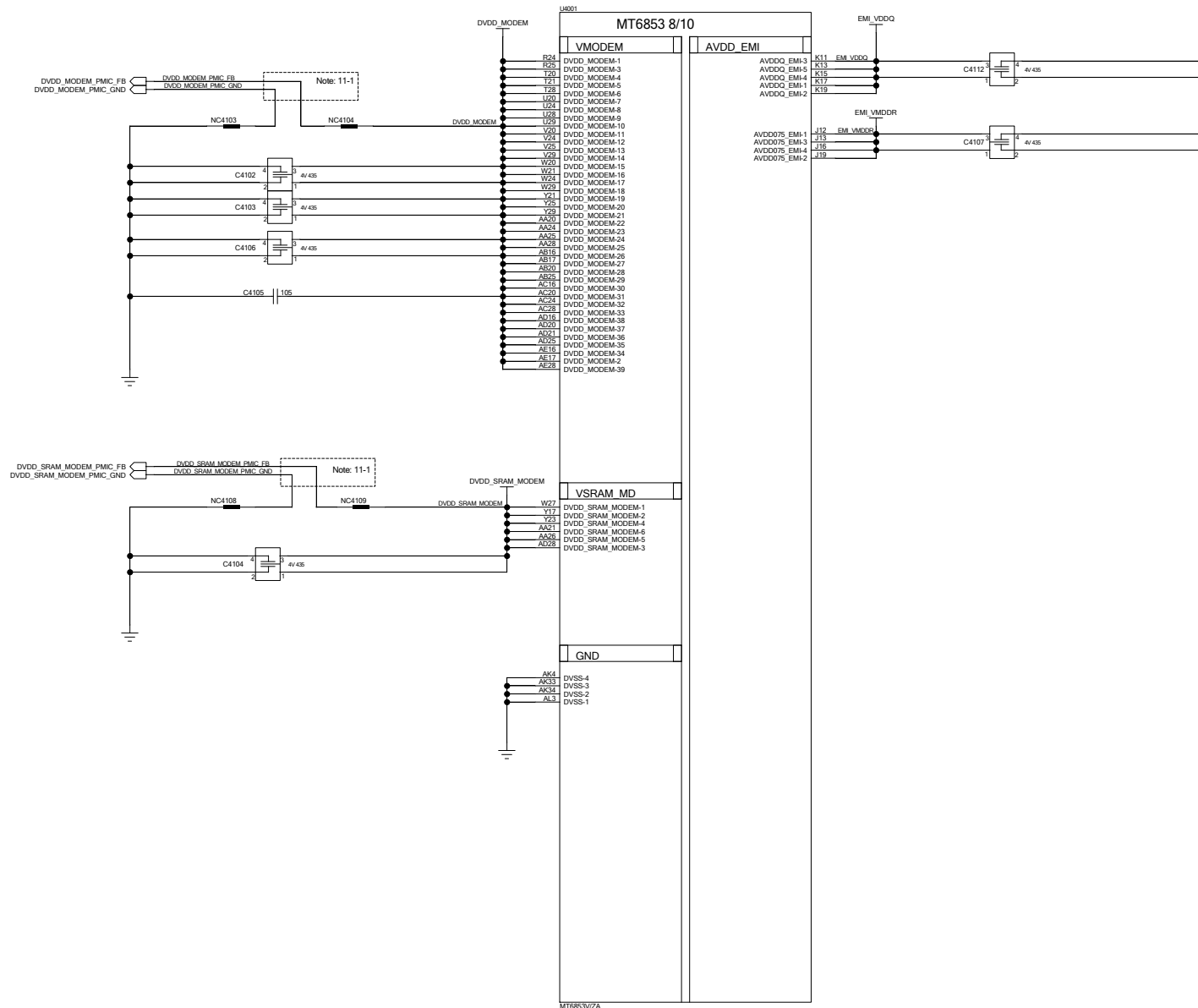


- 1、VBAT1+VBAT2 消耗电流200mA， VBAT2是给芯片内部（除射频发射部分）的模拟电路供电， Vbat1给其它芯片上资源供电（如CPU， Flash， 逻辑电路）。考虑到浪涌的因素ST54H的Vbat建议接到系统的VPH_PWR上面， 不建议接到电池的VBAT上面。
- 2、eSE模块消耗最大30mA， 正常工作情况下， 实际消耗的电流根据当时eSE的工作状态大概在 100uA-20mA 之间。
- 3、VDD_RF， 是载波的功率源。
- 4、VDD_ASK， 调制的功率源， 是调制信号的驱动。
- 5、VDD_A， 给芯片内部的模拟电路供电， 比如小信号处理， 内部滤波器， 运放等。
- 6、R4620建议先按照NC调试， 若是调试结果需要使用电阻， 一定要计算流过电阻的电流， 避免电流过大烧电阻
- | Drawn by | Sign |
|----------|------|
| | |

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Checked By			Sheet of 45	Ver:
Standard By			regime	
Approved By				

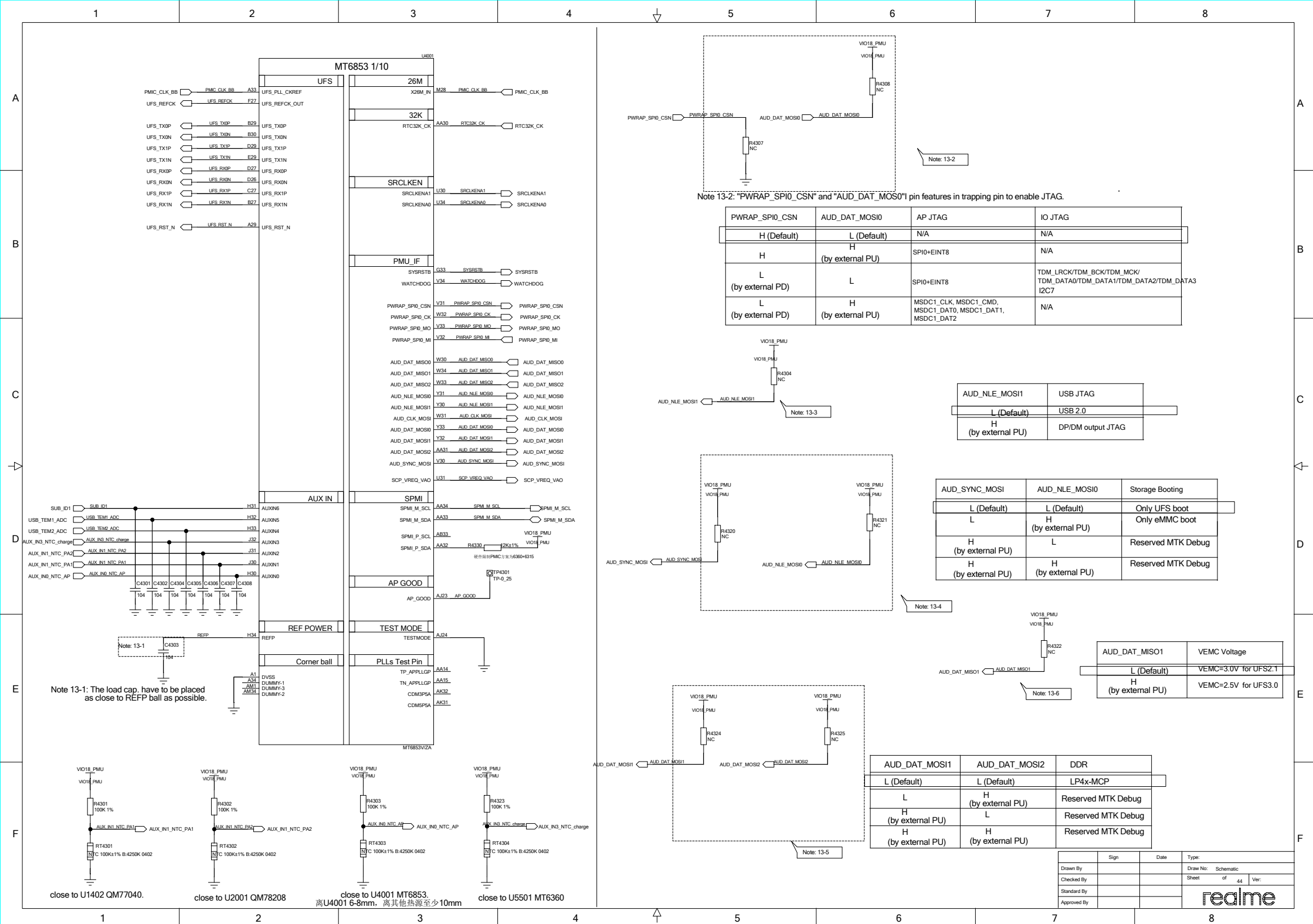
Schematic design notice of "11_BB_POWER_PDN" page.

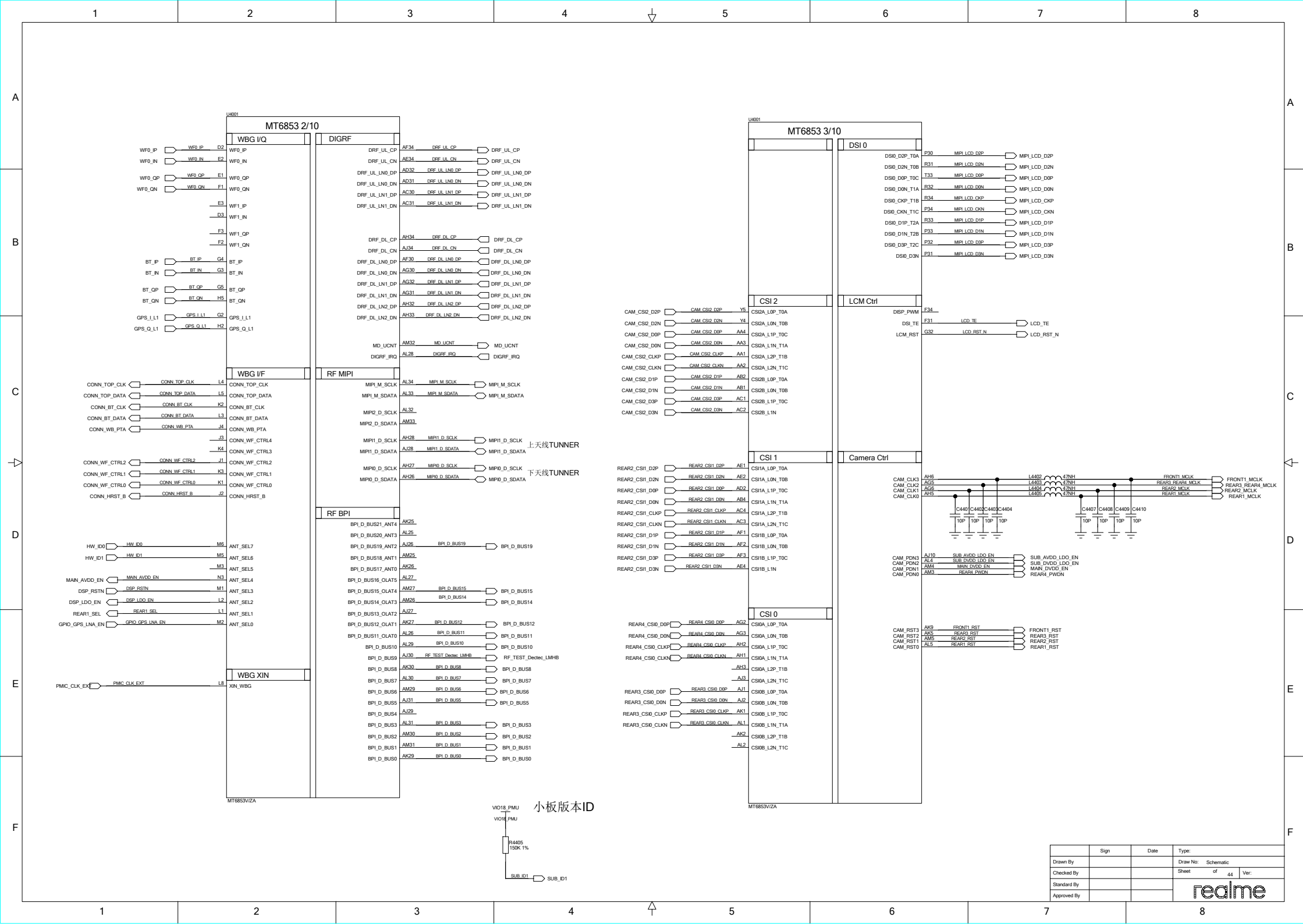
Note 11-1:
Differential pair of PMIC remote sense must be close to BB's ball.
Remote sense trace with GND shielding to PMIC (Differential)

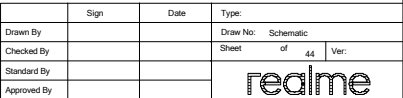


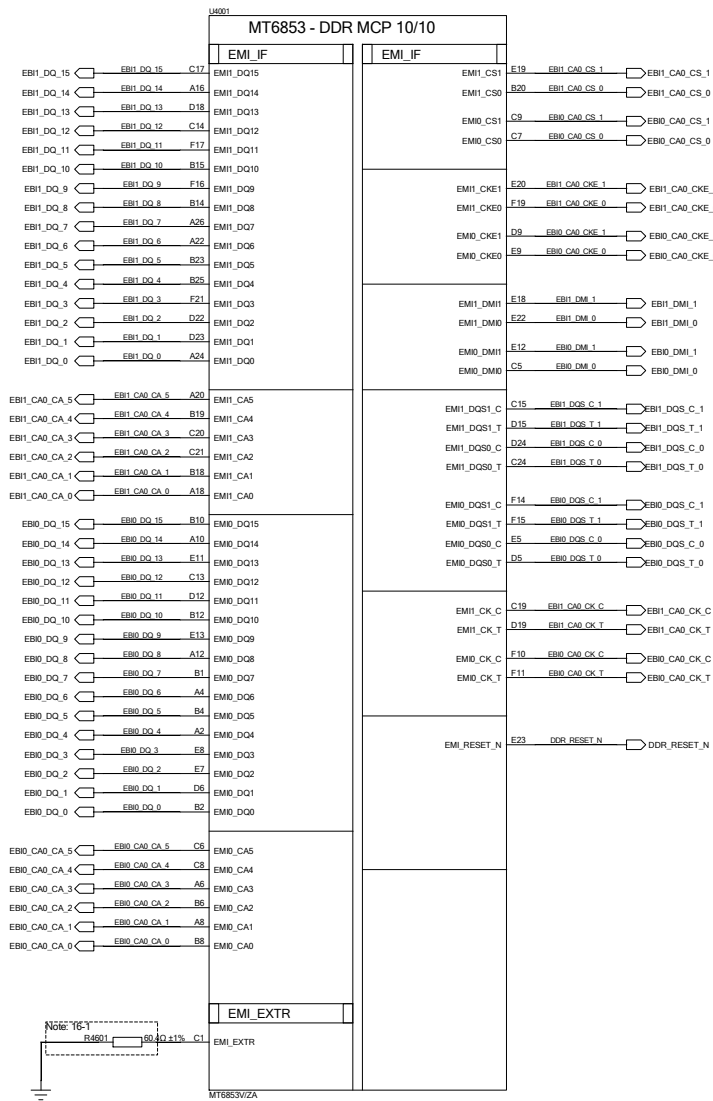
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Checked By			Draw No: Schematic
Standard By			Sheet of 44 Ver:
Approved By			

realme









Schematic design notice:

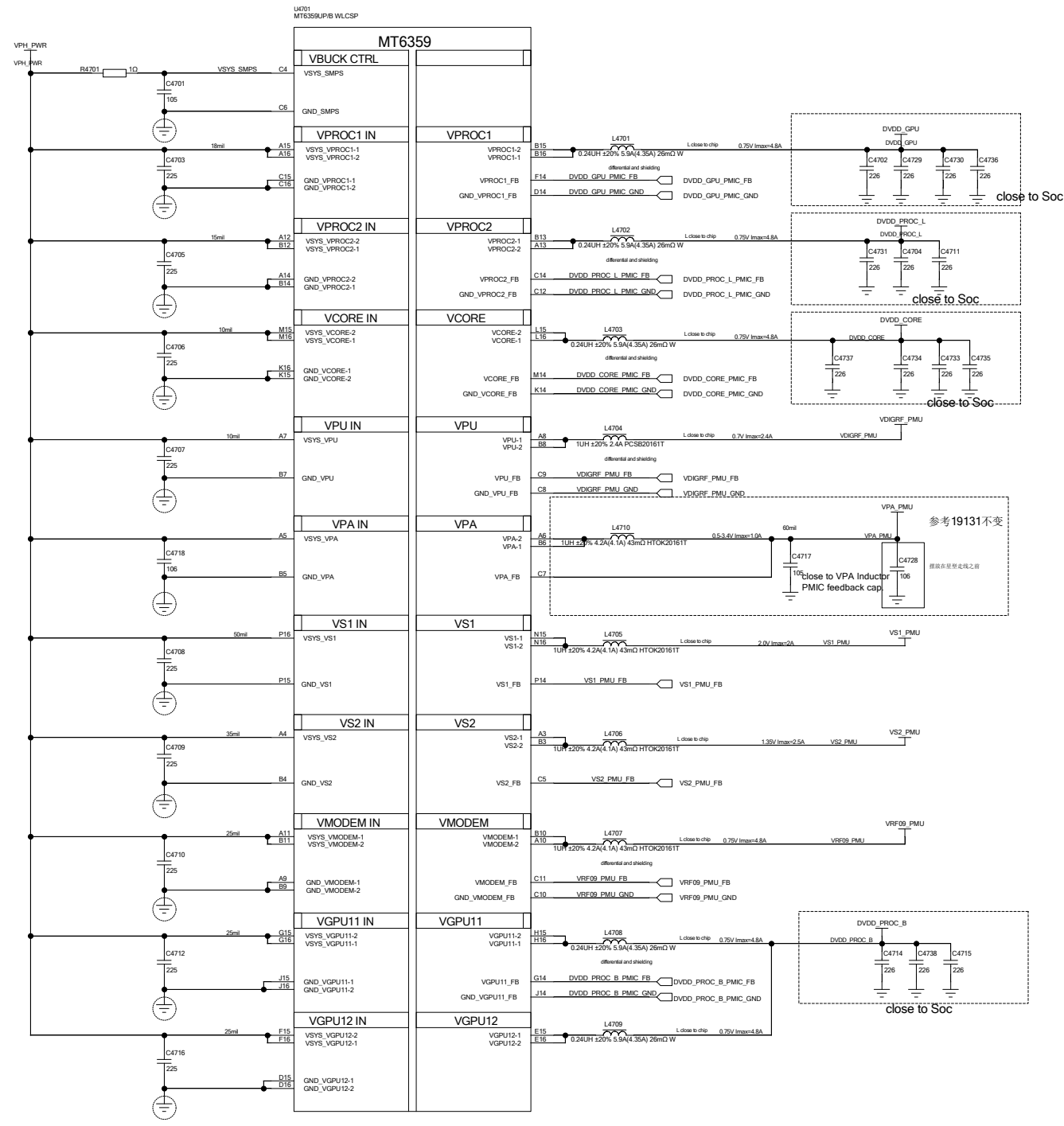
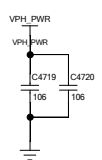
Note 16-1: R4601 please select 60.4 ohm (1%) resistor

	Sign	Date	Type:
Drawn By			Draw No: Schematic
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realme

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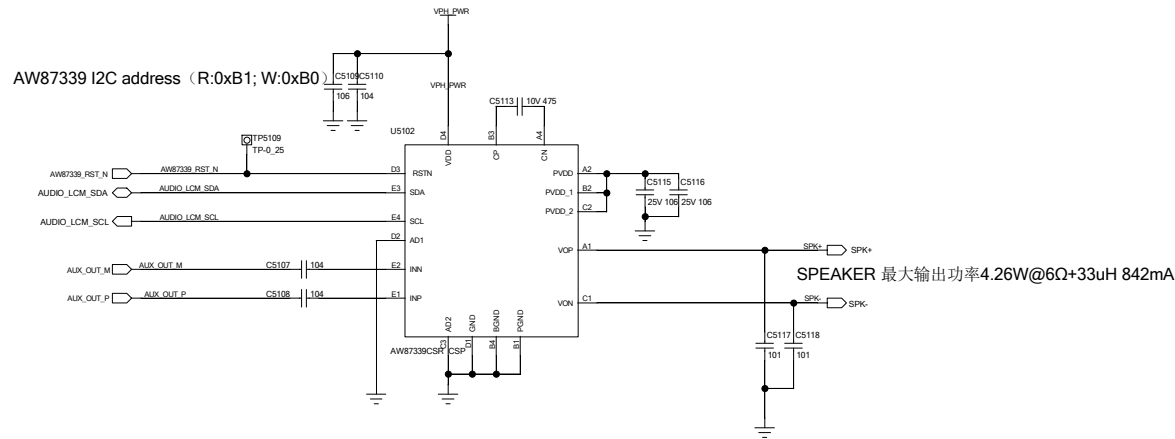
F



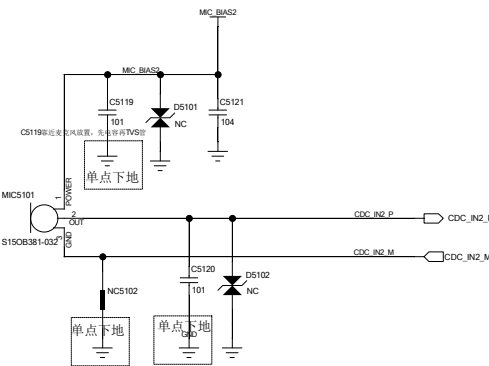
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Drawn By			Draw No: Schematic
Checked By			Sheet of 44 Ver:
Standard By			
Approved By			



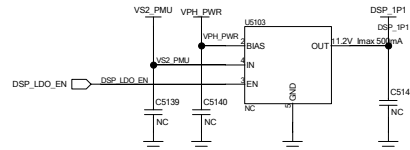
AUDIO PA



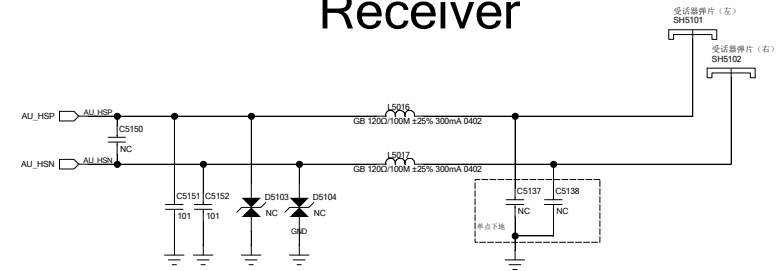
Ant-Noise MIC



Close to DSP



Receiver



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Drawn By			Draw No: Schematic
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Standard By			
Approved By			

realme

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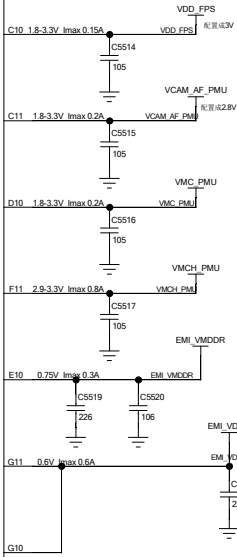
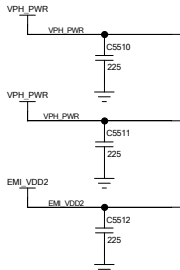
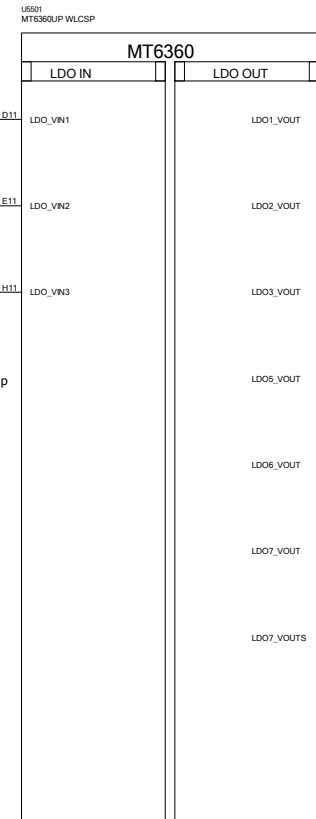
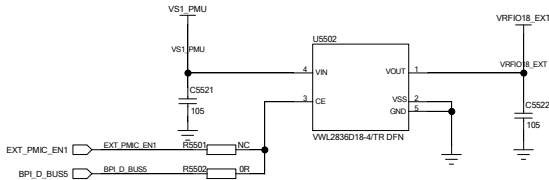
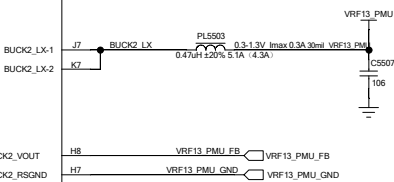
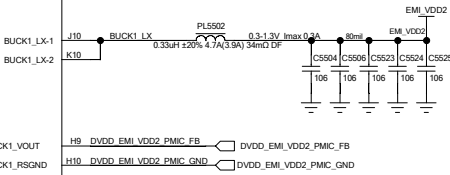
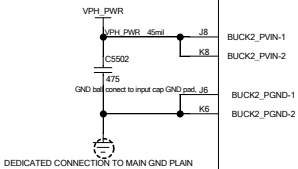
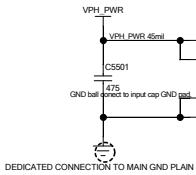
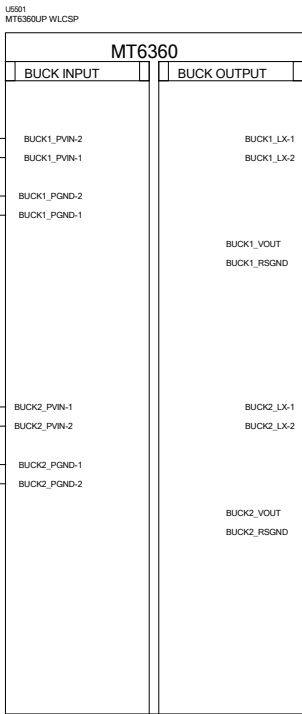
B

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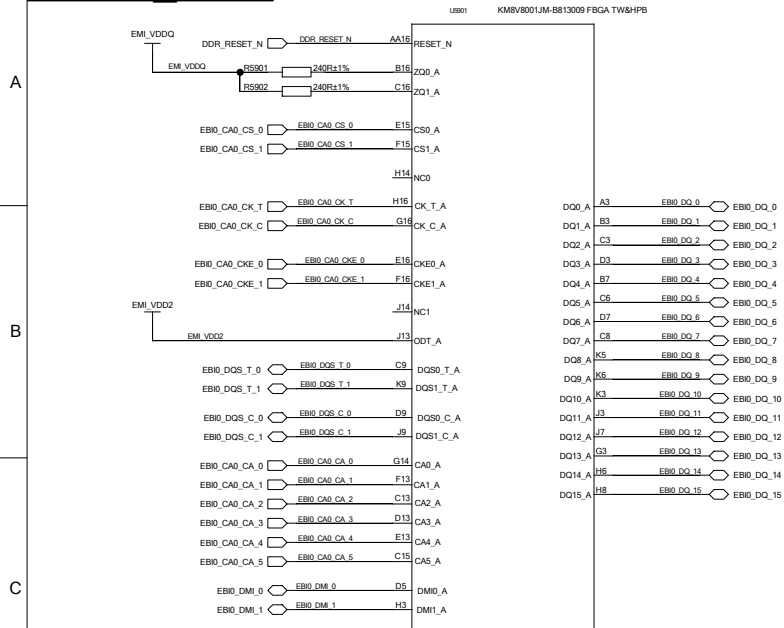
F



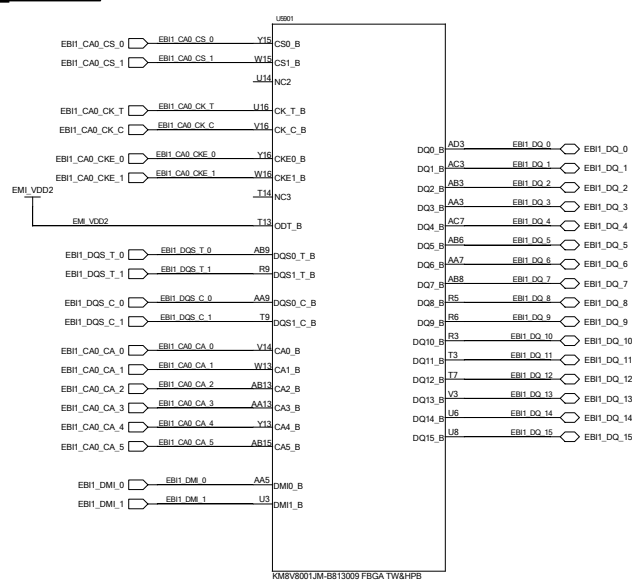
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Drawn By			Draw No: Schematic
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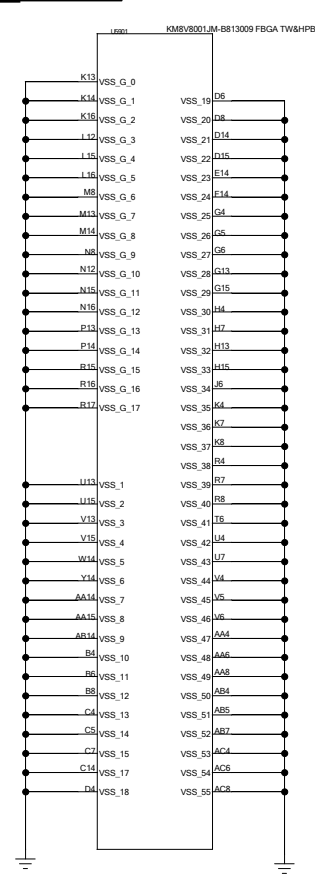
uMCP_EBI0



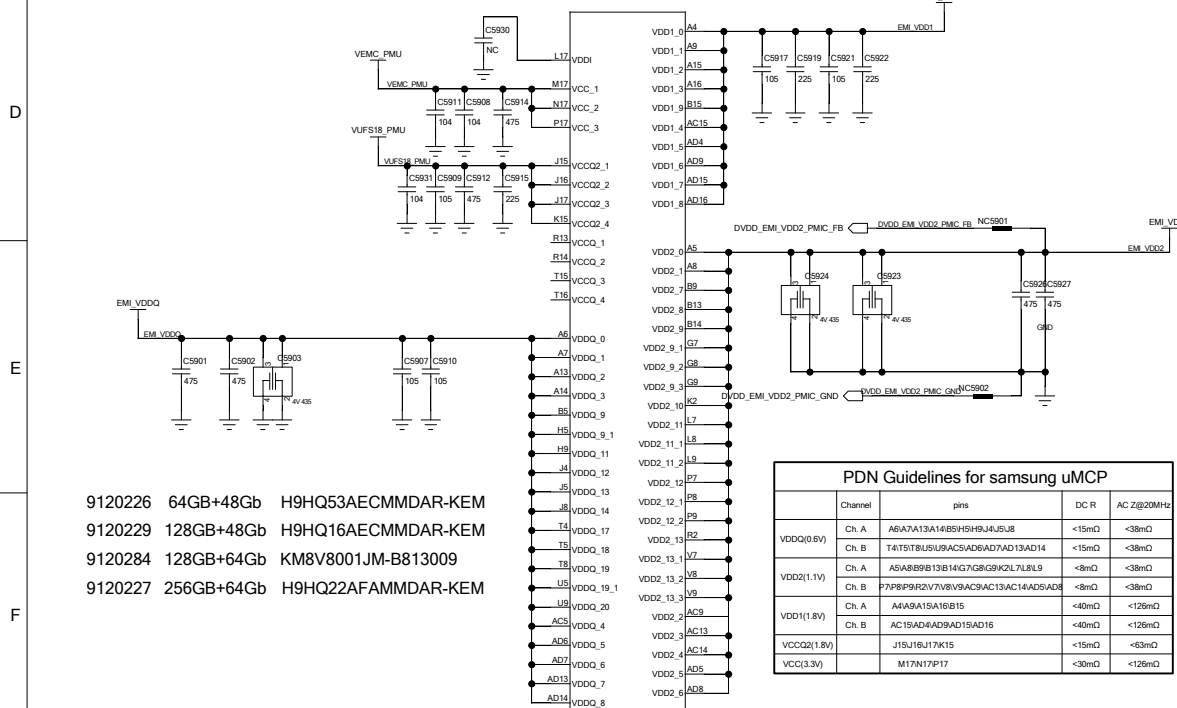
uMCP_EBI1



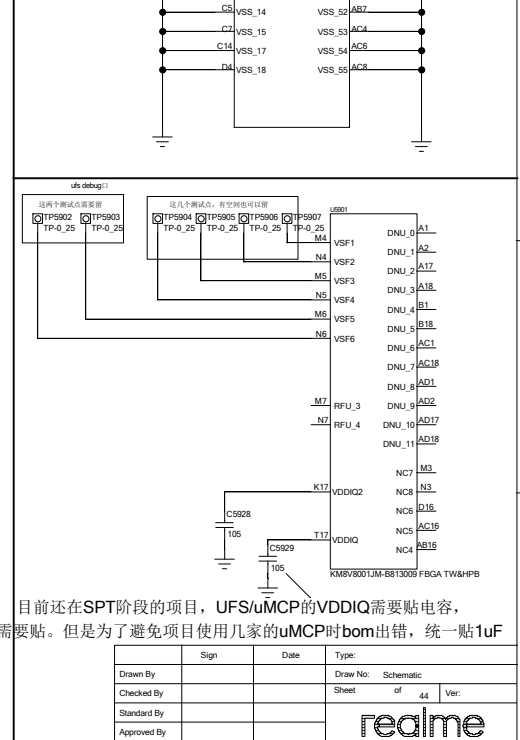
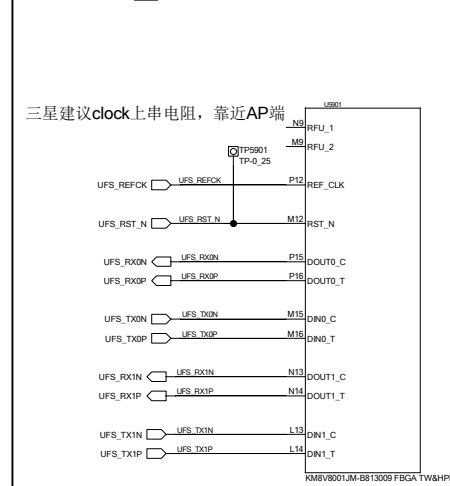
uMCP_GND



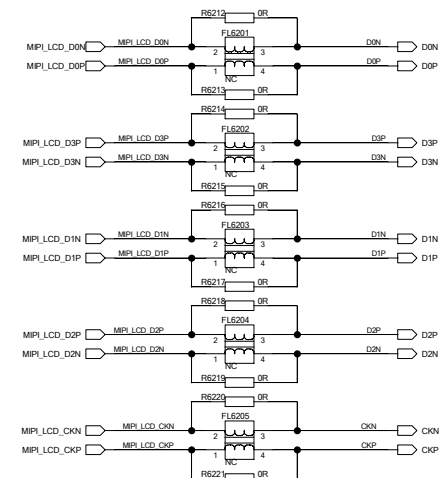
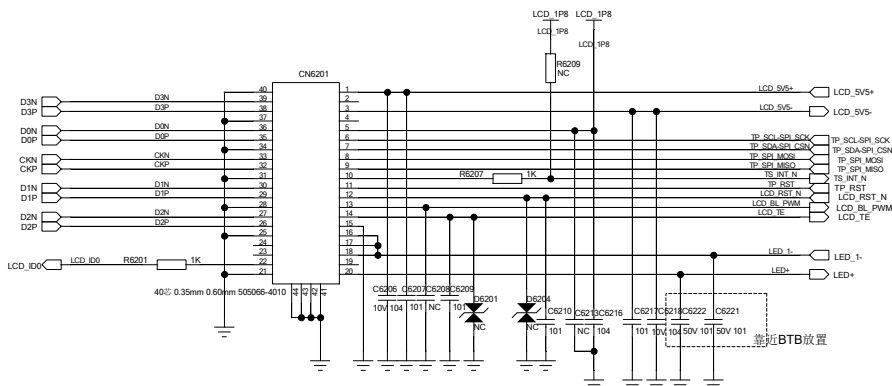
Power For uMCP



uMCP_SDC



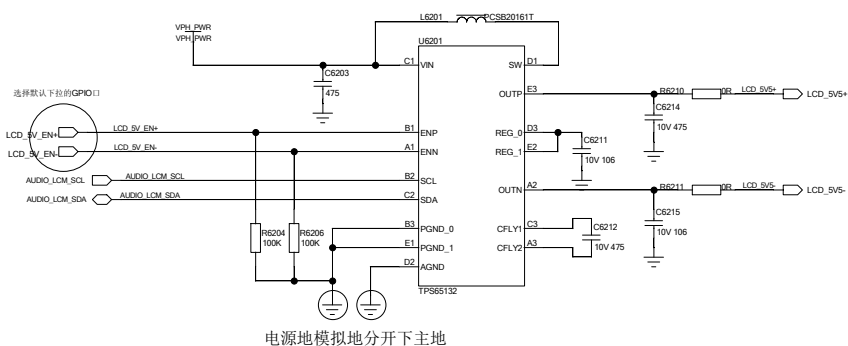
DSI CMF



0欧与共模滤波器，DVT改为不兼容设计

裸晶IC，注意布局位置应力

KTD2151 I2C address (R:0x7D; W:0x7C)



AW9962 I2C address (R:0x6D; W:0x6C)

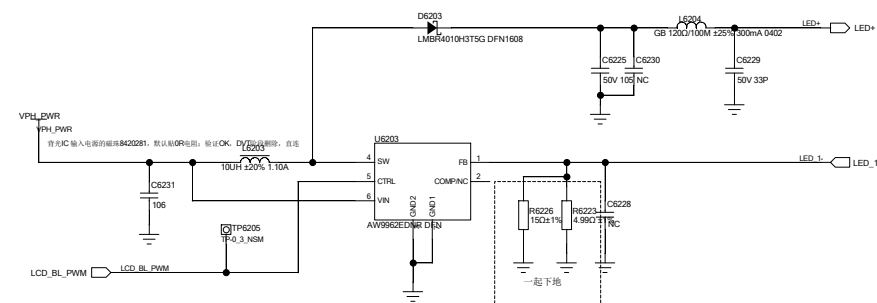



Figure 1-1: IC-LD59030DTPU18R Pin Connection Diagram

	Sign	Date	Type:	
Drawn By			Draw No: Schematic	
Checked By			Sheet	of 45 Ver:
Standard By				
Approved By				

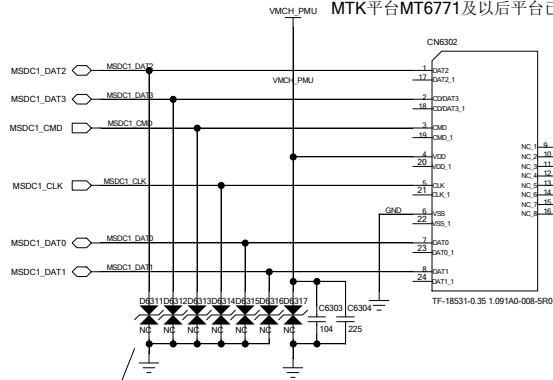
SD Card

平台PMU自带T卡电源满足以下条件可以不使用外部LDO:

- 1、具有OCP功能;
- 2、最大负载能力支持到800mA以上。

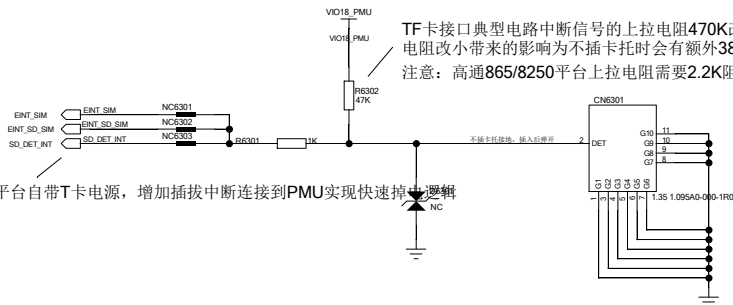
目前高通SDM660及以后平台都已自带以上满足要求的T卡电源

MTK平台MT6771及以后平台已有自带以上满足要求的T卡电源



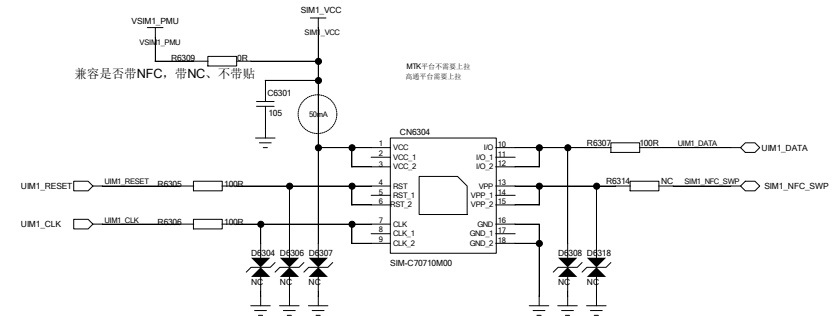
此处TVS管默认NC，根据后面的测试情况决定是否使用
在T卡座是掀盖式设计时，TVS管默认贴上

Hot plug



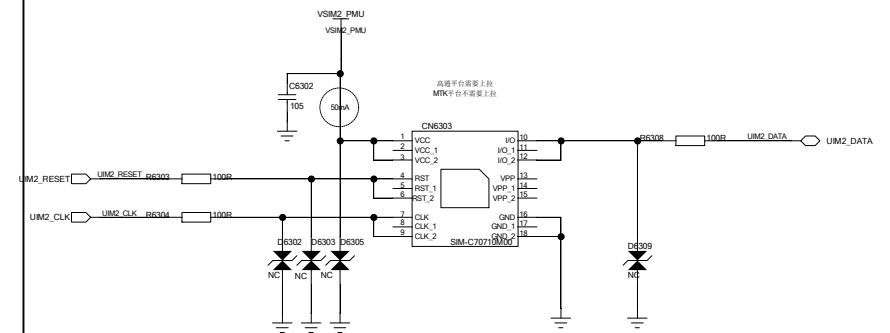
TF卡接口典型电路中中断信号的上拉电阻470K改为47K，改善泡水实验掉卡、不读卡问题。
电阻改小带来的影响为不插卡托时会有额外38.3uA漏电，换算成电池端<20uA；插卡托时则无额外漏电
注意：高通865/8250平台的上拉电阻需要2.2K阻值！！

SIM1 Card




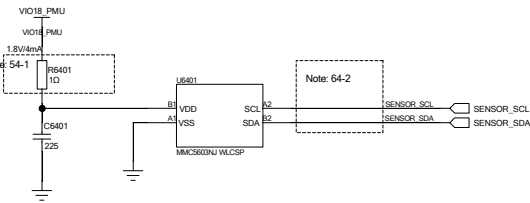
SIM2 Card

靠外侧SIM卡



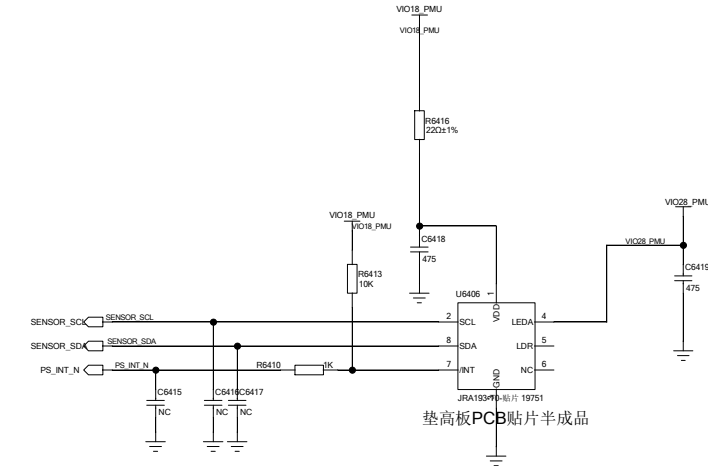
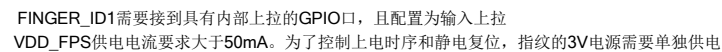
方案只支持单SIM卡 NFC

	Sign	Date	Type:	
Drawn By			Draw No: Schematic	
Checked By			Sheet of 44	Ver:
Standard By				
Approved By				



Note 64-2: I2C串联0欧电阻作为开发初期防止高速信号干扰预留位，后期无问题可以去掉；

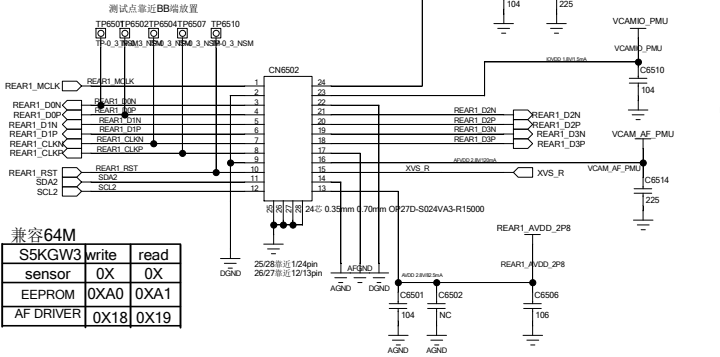
M-sensor	Read	Write
AK09918	0X19	0X18
MMC5603NJ	0X61	0X60

5realme

Rear1 后置主摄

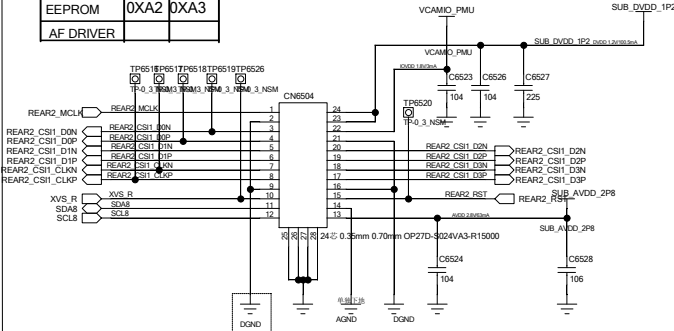
GM1-ST	write	read
sensor	0X5A	0X5B
EEPROM	0XA0	0XA1
AF DRIVER	0X18	0X19

OV16A	write	read
sensor	0X6C	0X6D
EEPROM	0XA0	0XA1
AF DRIVER	0X18	0X19



Rear2 后置8M广角

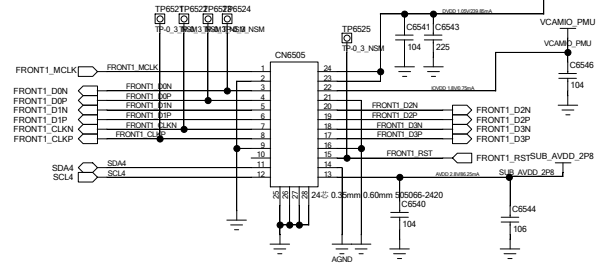
Hi846	write	read
sensor	0X44	0X45
EEPROM	0XA2	0XA3
AF DRIVER		



Front1 前置

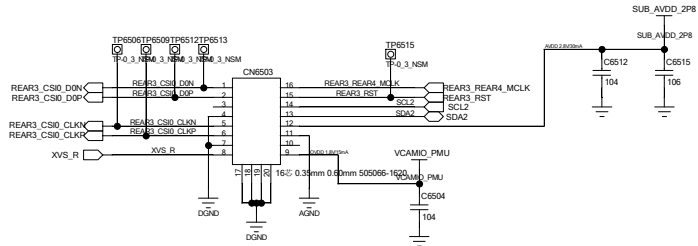
16M	write	read
SSK3P9SP	0X20	0X21
sensor	0XA8	0XA9
EEPROM		
driver		

8M	write	read
SSK4H7	0X20	0X21
sensor	0XA0	0XA1
EEPROM		
driver		



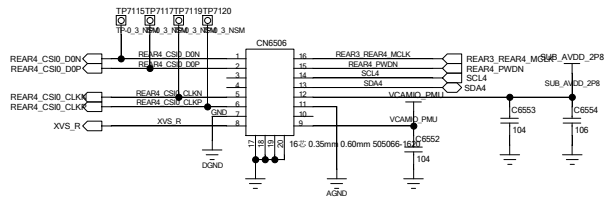
Rear3 后置2M微距

	write	read
sensor		
EEPROM		
driver		

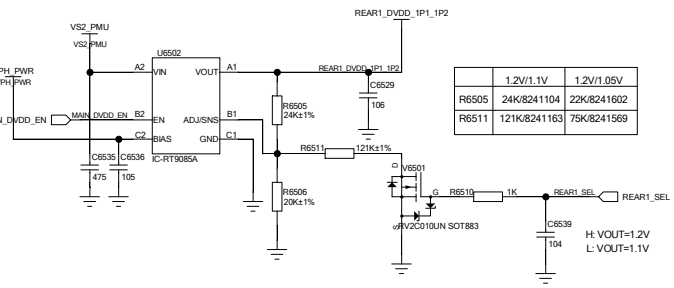


Rear4 后置2M黑白

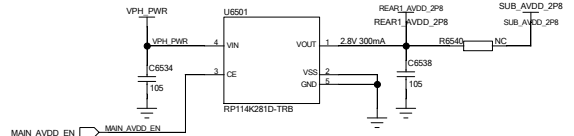
OV02B1B	write	read
sensor	0x7A	0x7B
EEPROM	0xA4	0xA5
driver		



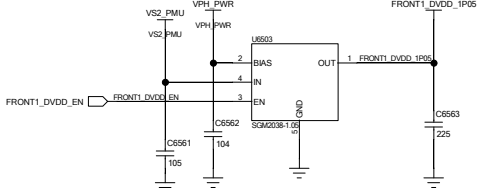
REAR1 DVDD



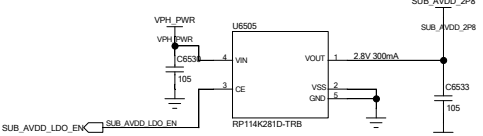
REAR1 AVDD 2P8



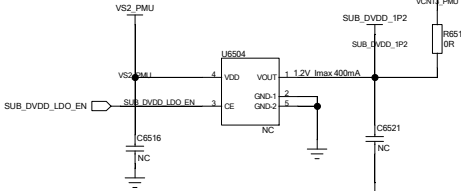
FRONT1 DVDD 1P05



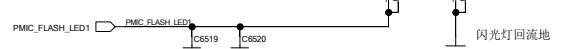
REAR2 REAR3 REAR4 FRONT1 AVDD 2P8



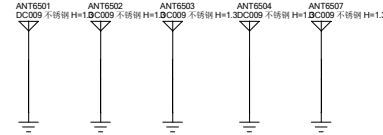
REAR2 DVDD 1P2



Flash LED



装饰件接地弹片



Sign	Date	Type
Drawn By	Draw No	Schematic
Checked By	Sheet	of 44 Ver
Standard By		
Approved By		

realme

1

2

3

4

A

A

B

B

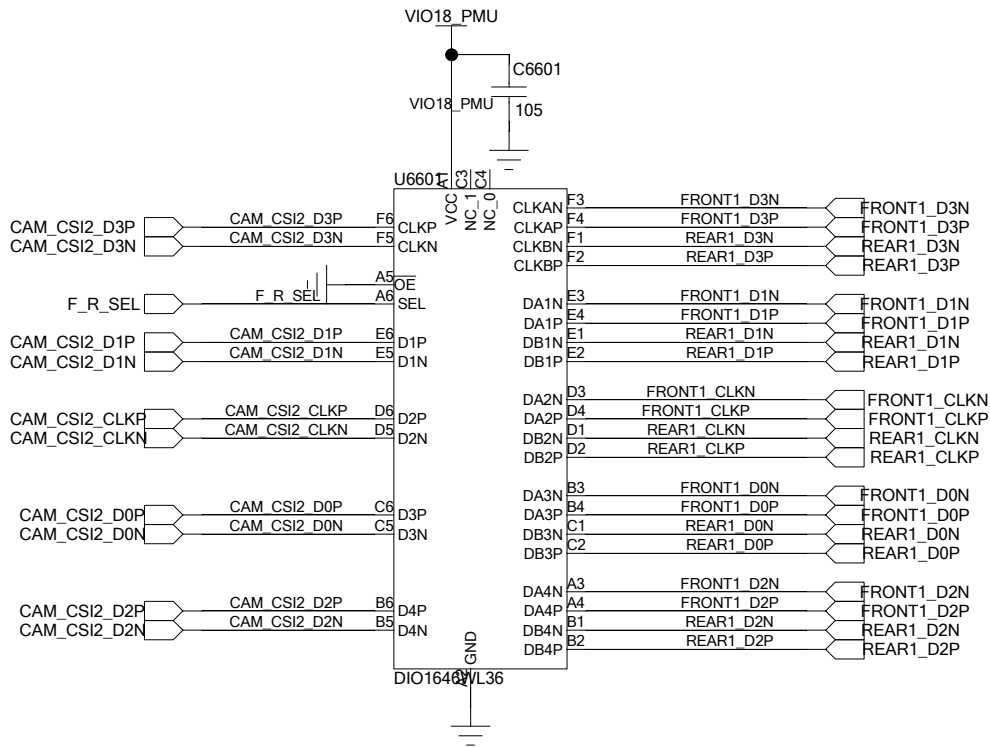
C

C

D

D

CSI_SEL	Select
0	FRONT1
1	REAR1



	Sign	Date	Type:
Drawn By			Draw No: Schematic
Checked By			Sheet of 46 Ver:
Standard By			realme
Approved By			

1

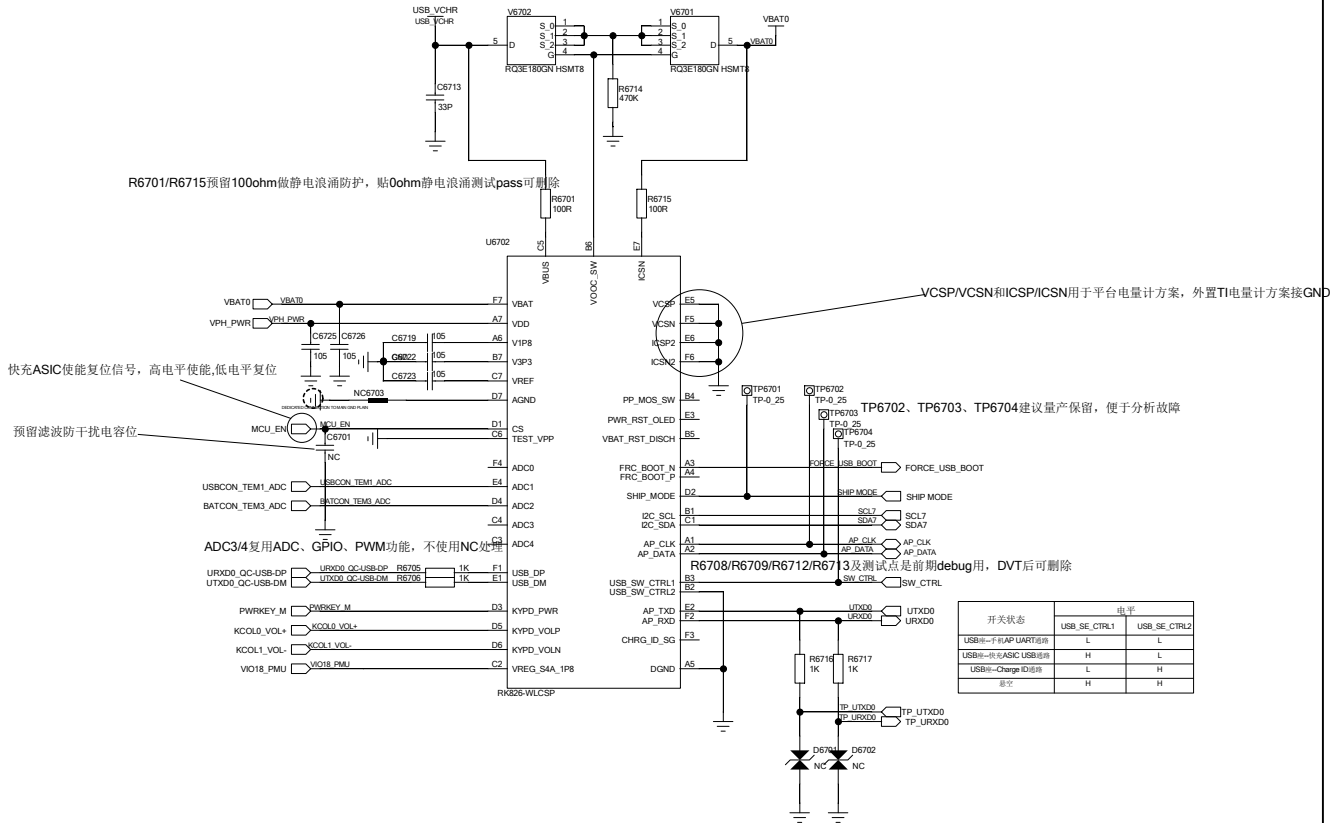
2

3

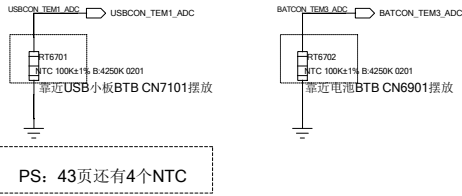
4

Fast Charge

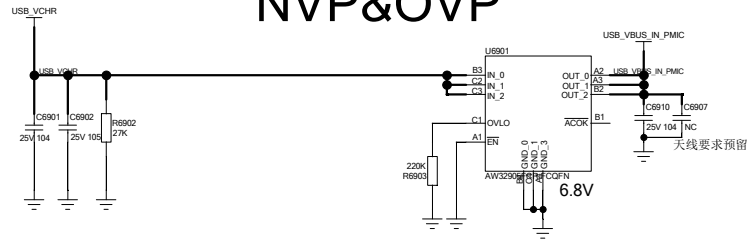
ASIC Fast Charge



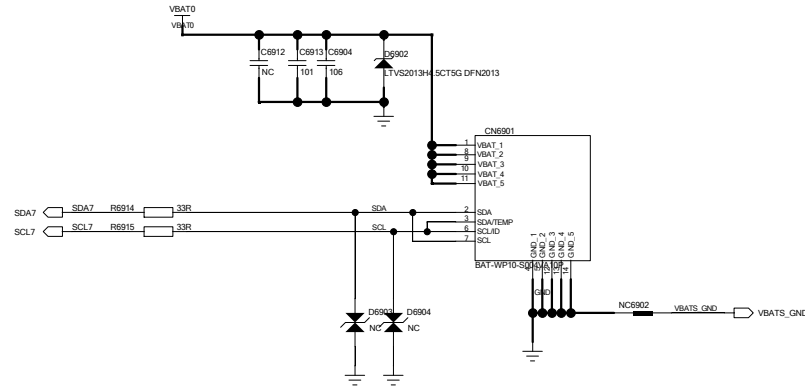
Thermistor



NVP&OVP

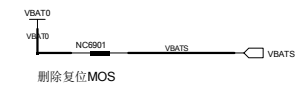


Battery Connector



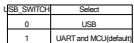
BAT_MOSFET

VPH_PWR是从充电IC的系统供电输出端取电
VBAT0是直接从电池取电
VBAT_RST是从复位MOS管输出端取电



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Drawn By		Draw No: Schematic
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Approved By		

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63/64靠近30/31 pin, 62/61靠近1/60 pin

