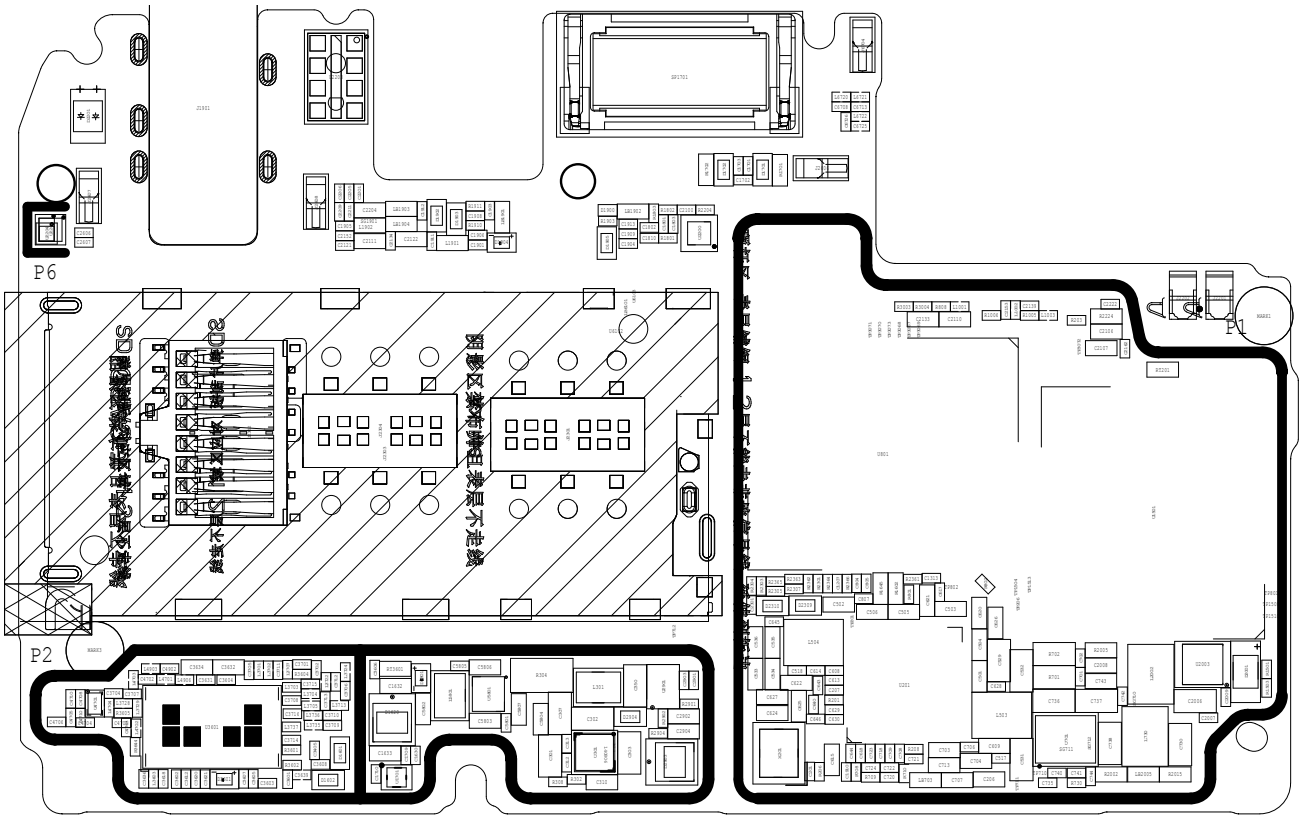
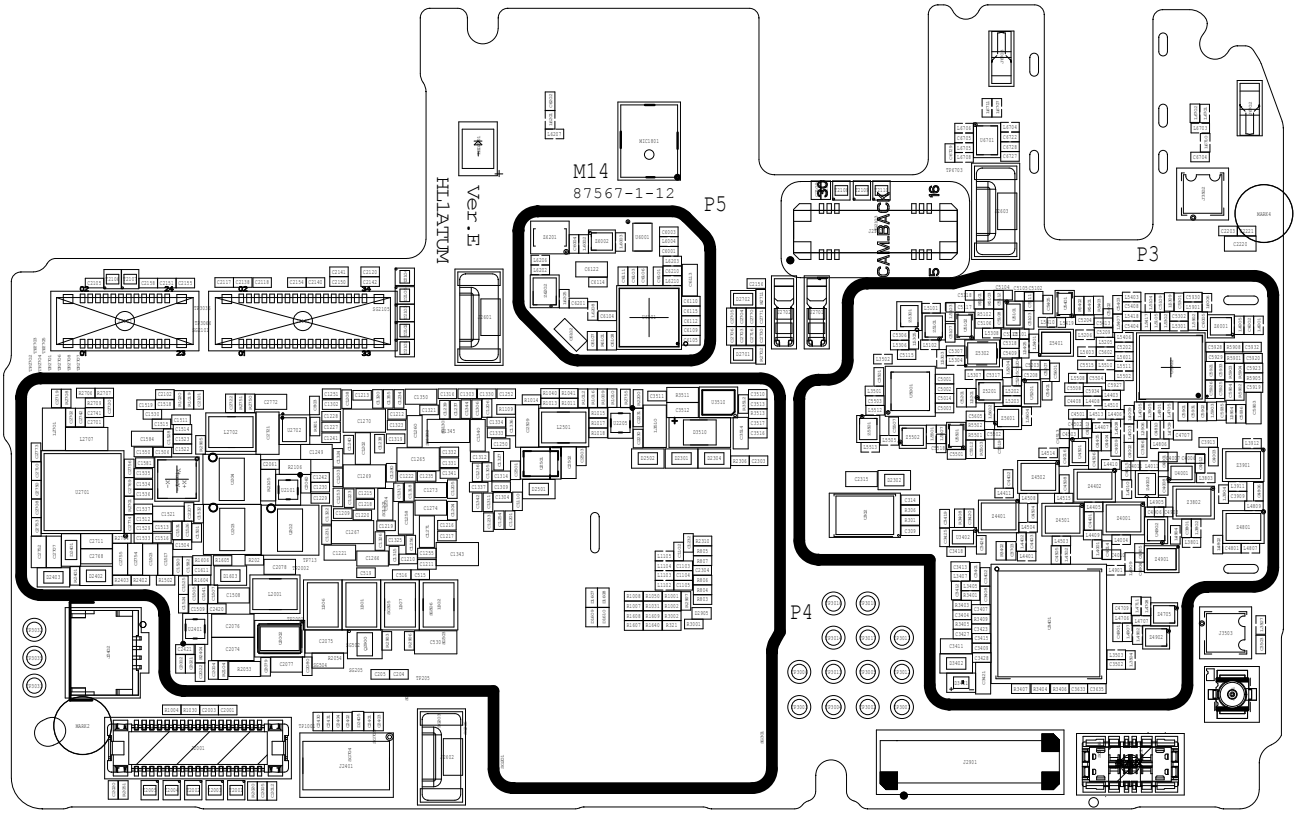
87567_1_12M14_Assembly_TOP

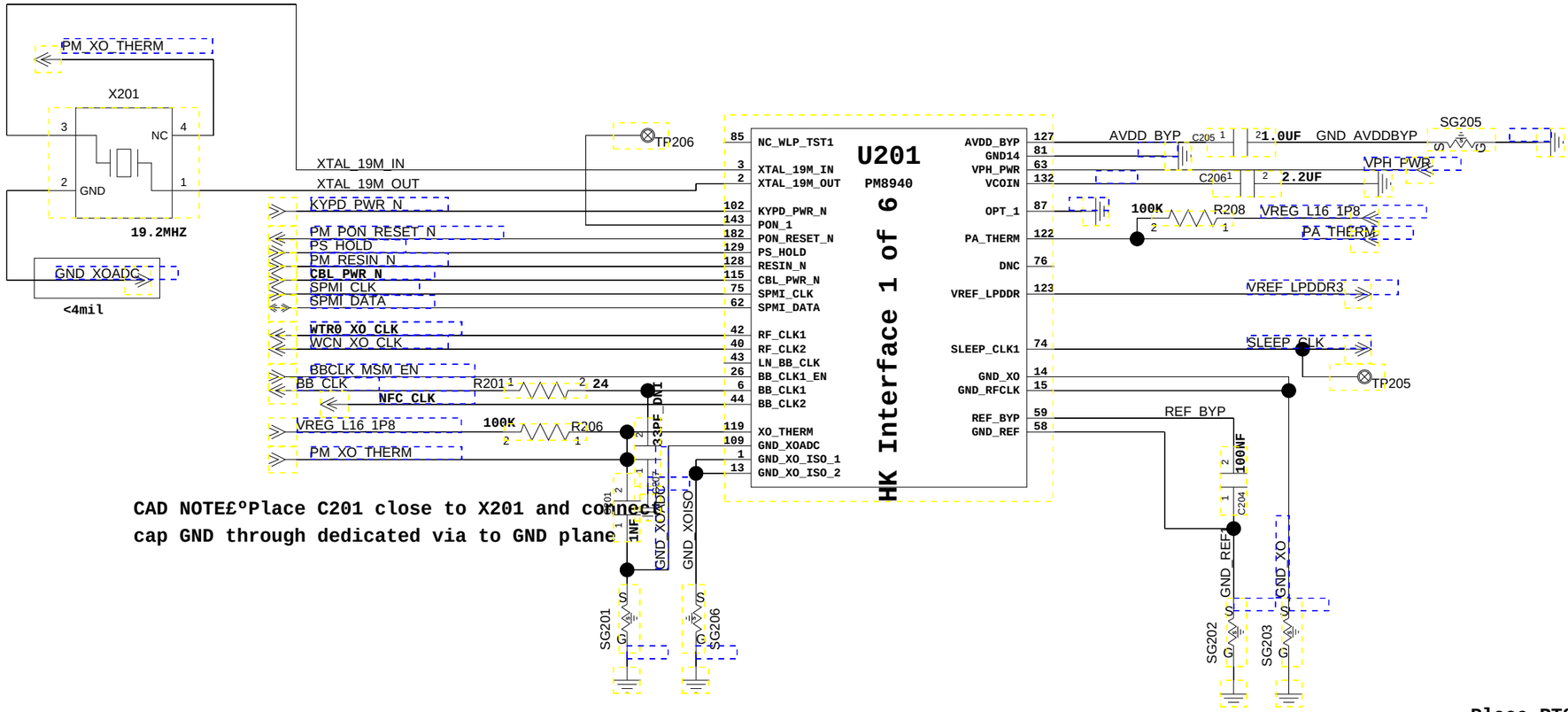


87567_1_12M14_Assembly_BOTTOM

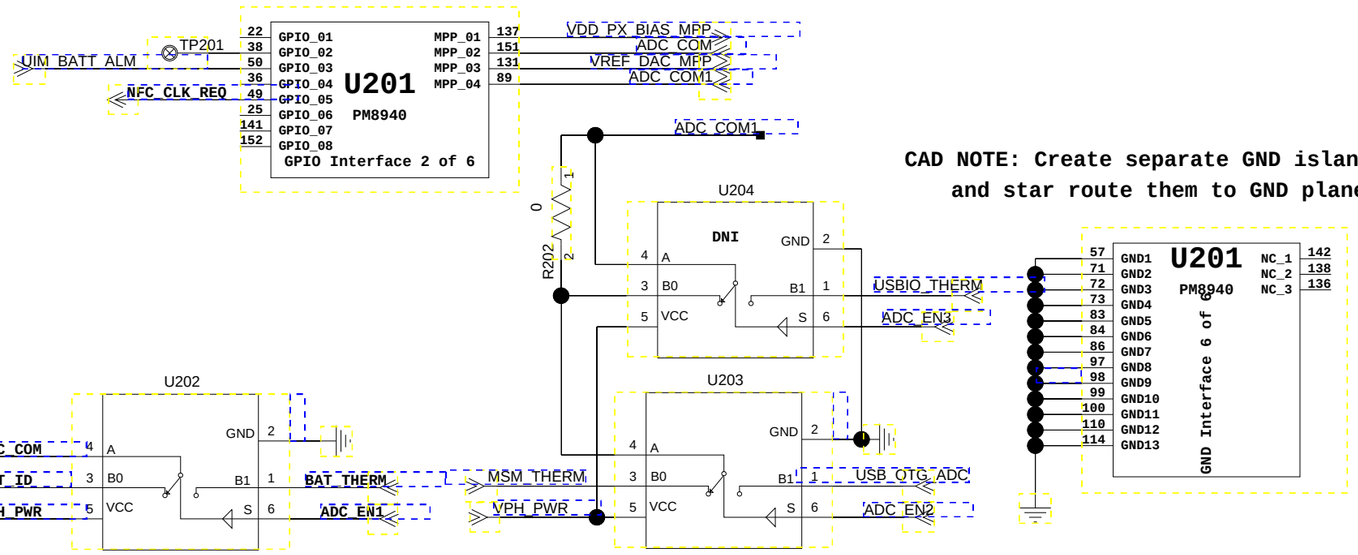


AP SCHEMETIC

2. PM8940 Control

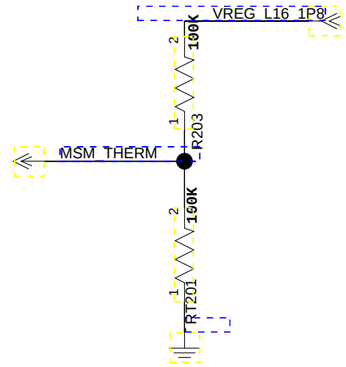


Do not share GND_XO_ISO with other grounds



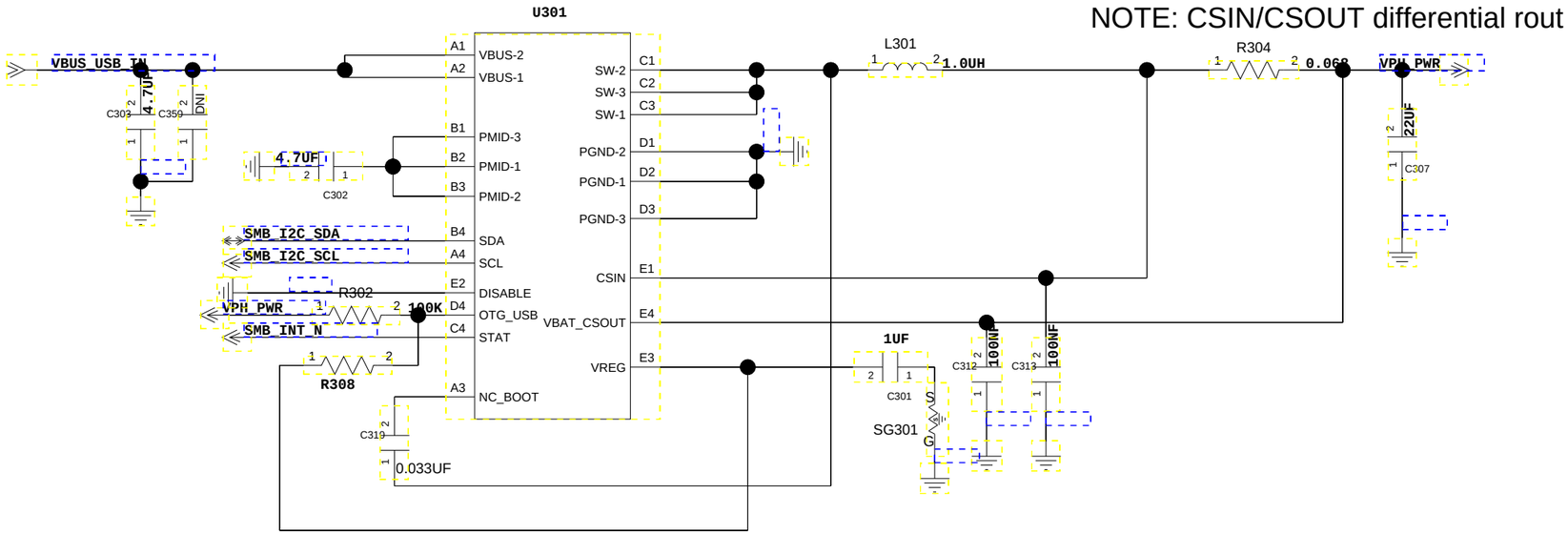
CAD NOTE: Create separate GND islands for PMIC and CODEC GND balls and star route them to GND plane. Remaining are PMIC GND balls.

Place RT201 in a thermally quiet area.

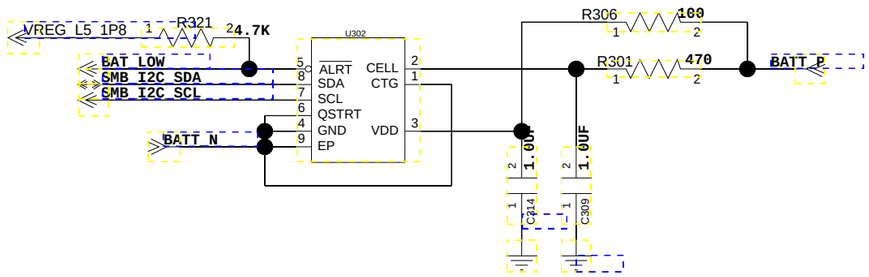


3. Charge

Charger

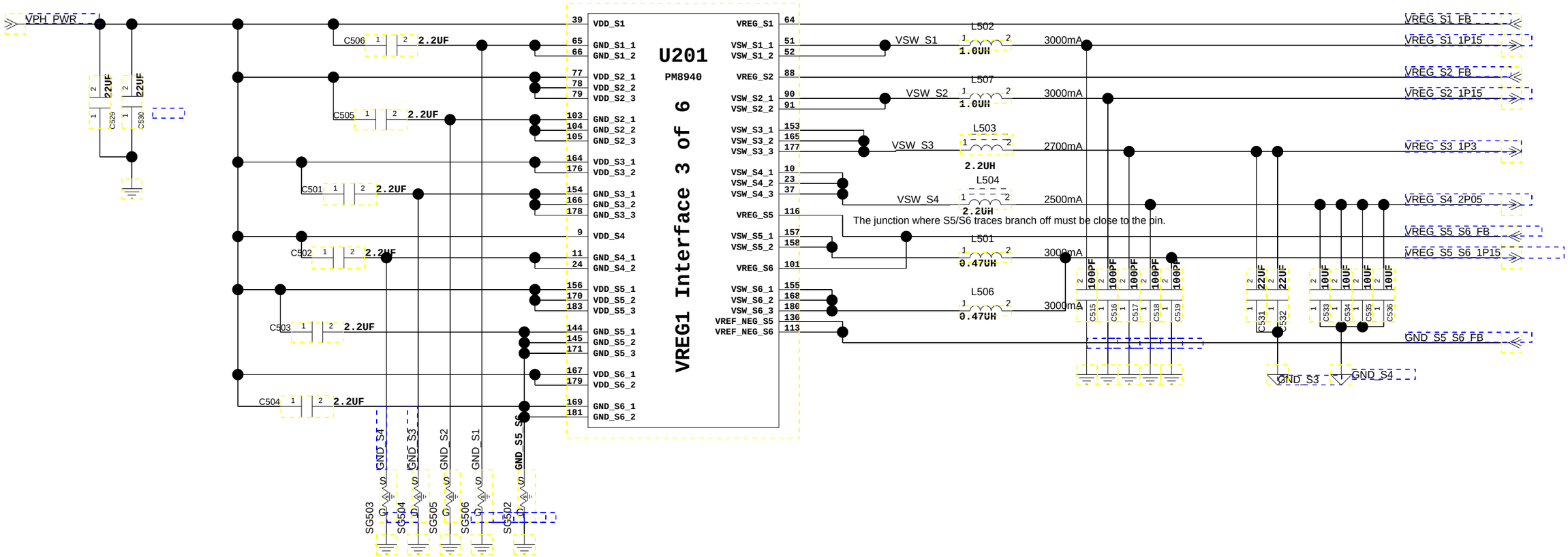


GAUGE

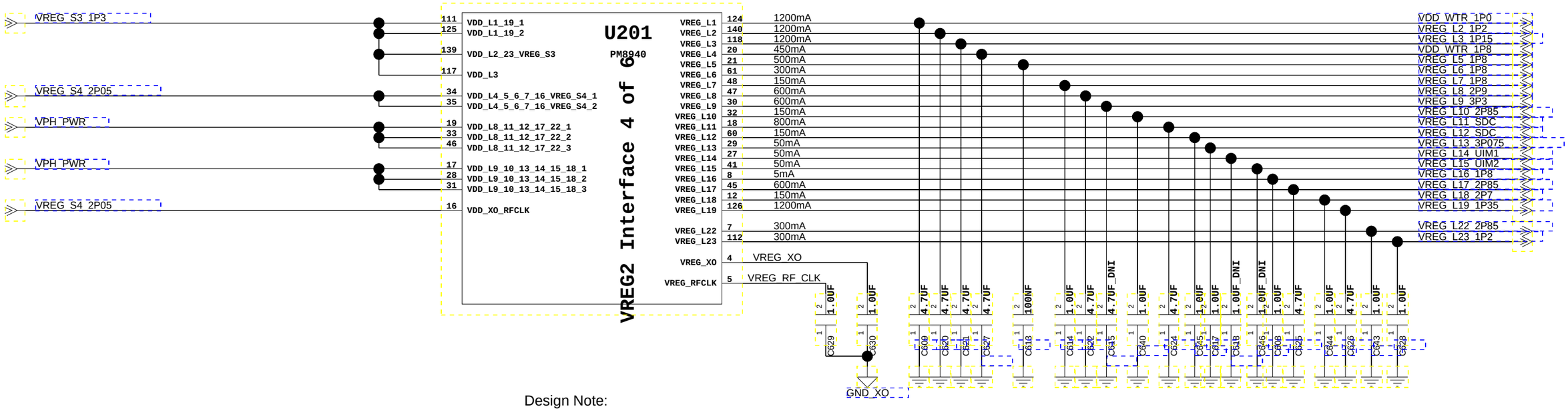


4. PMI8952 Power

5. PM8940 SMPS



6. PM8940 LDO



Design Note:

PSEUDO CAPLESS LDOs:

L4*, L6, L8*, L9*, L10, L11*, L12, L14, L15, L17*, L18, L22, L23

L4*, L8*, L9*, L11*, L17*, still need validation as Pseudo-capless

L5, L7, L13, L16 have internal PMIC Loads and require local CAPs.

7. PM8940 CODEC

Place C704 close to pin 148 and C709 close to pin 67.

CAD Note: GND_SPKR_PA should be routed for current 1A

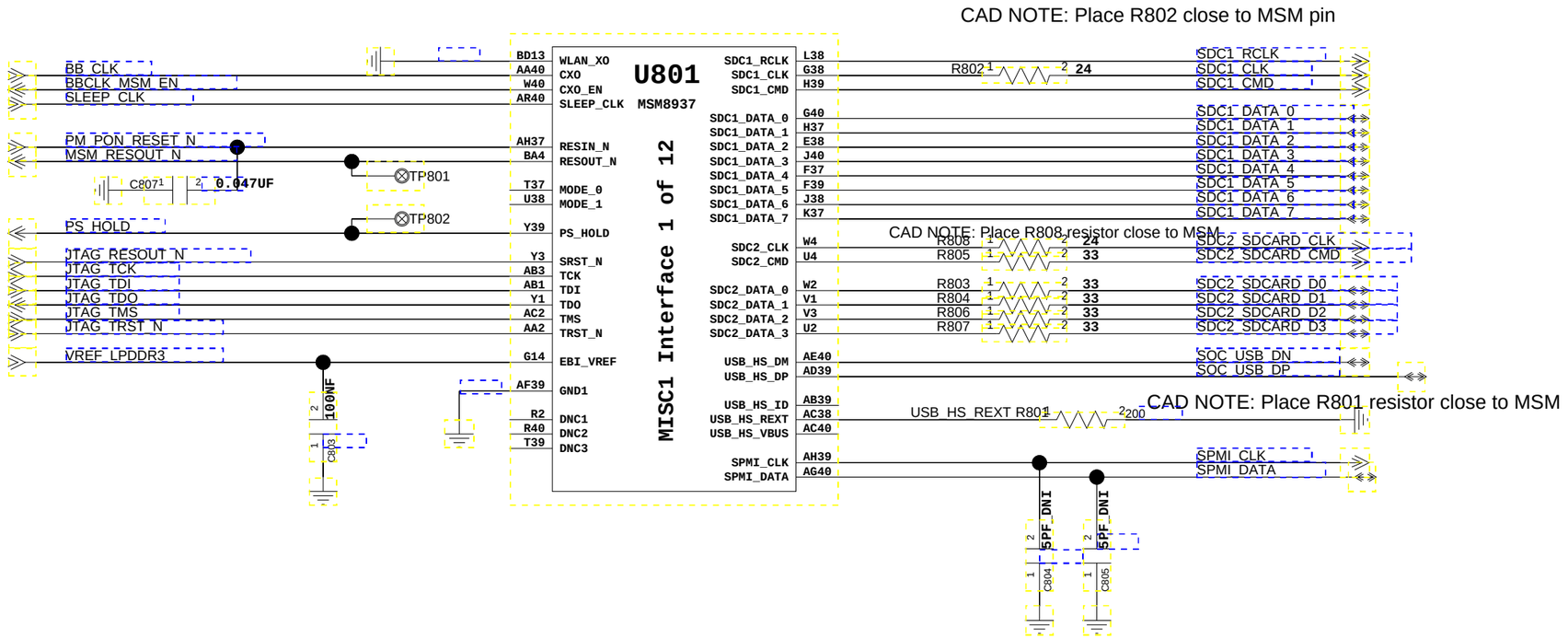
U201 PM8940 CDC Interface 5 of 6

U701

L730 1.0uH

LB703 120OHM

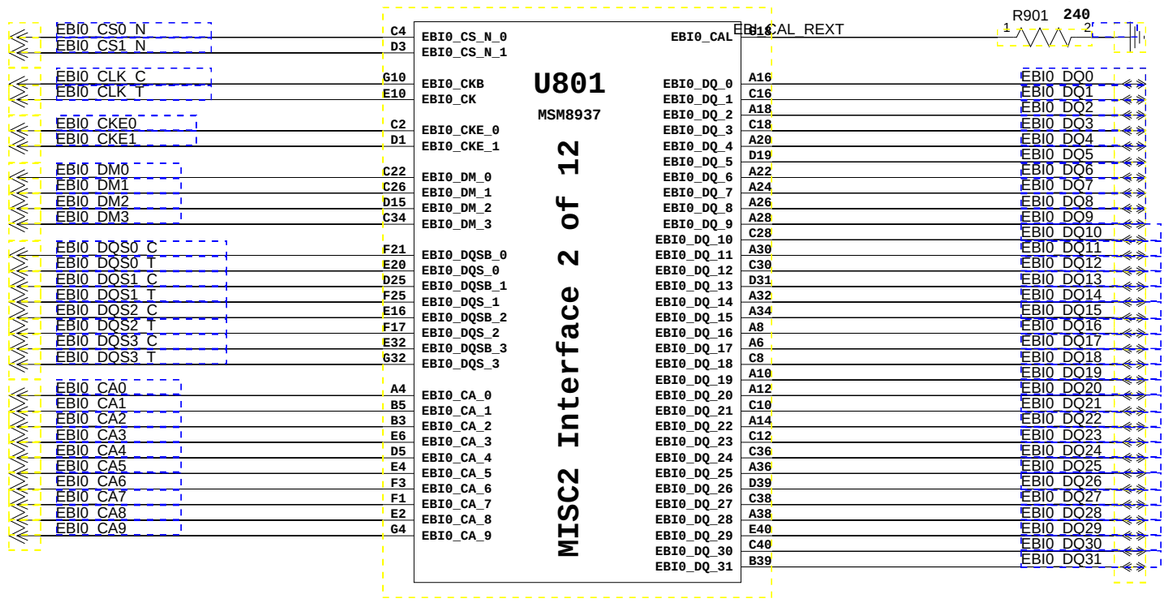
8. MSM8917 Control



CAD NOTE: SPMI should be well shielding and protected from MSM to PM/PMI side
please star routing SPMI_CLK/DATA from MSM to PM/PMI respectively

9. MSM8917 EBI

CAD NOTE: Place R901 close to MSM pin

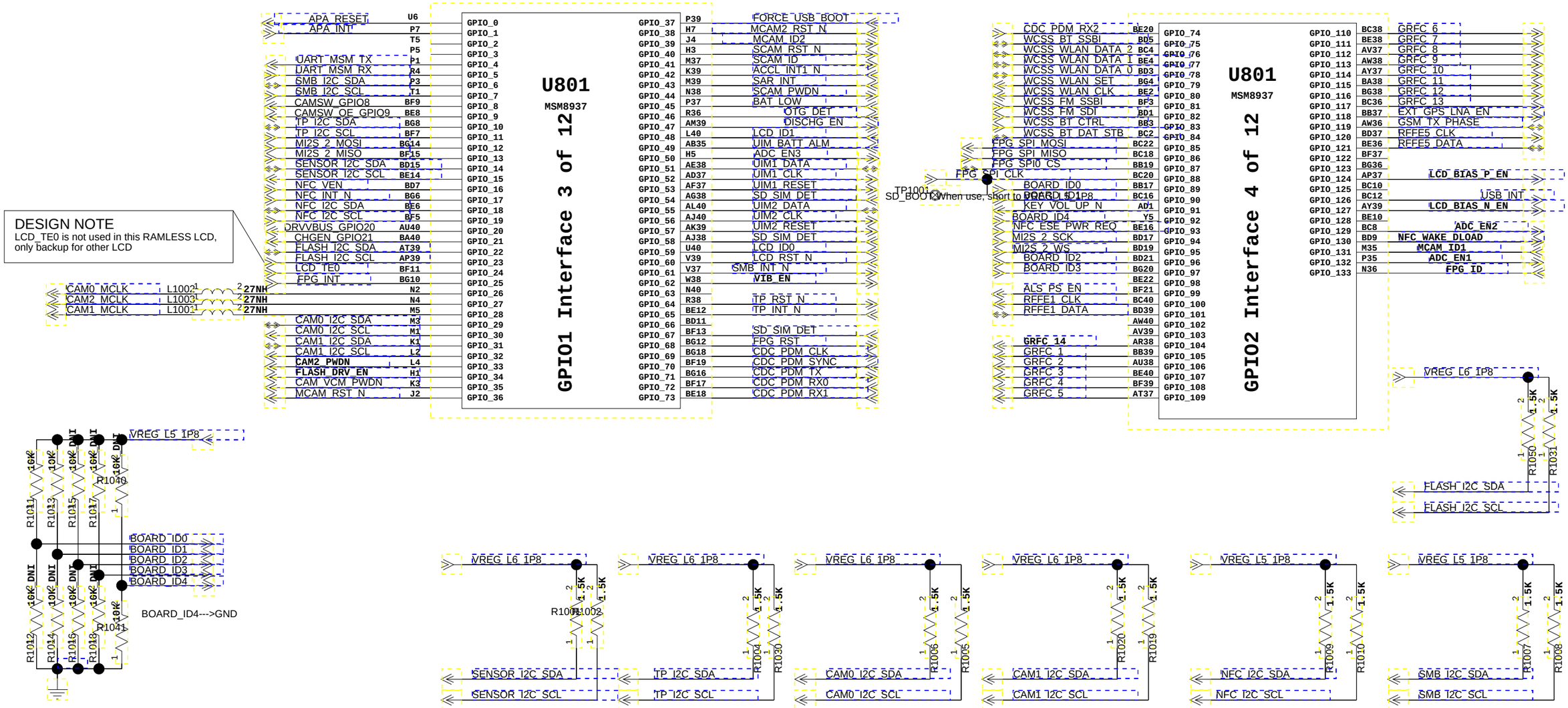


10. MSM8917 GPIO

**BOM Notes:

TRT_AL00/AL10/TL10: MSM8940-1 39200783

TRT_LX1/LX2/LX3: MSM8940-3 39200813



**BOM Notes

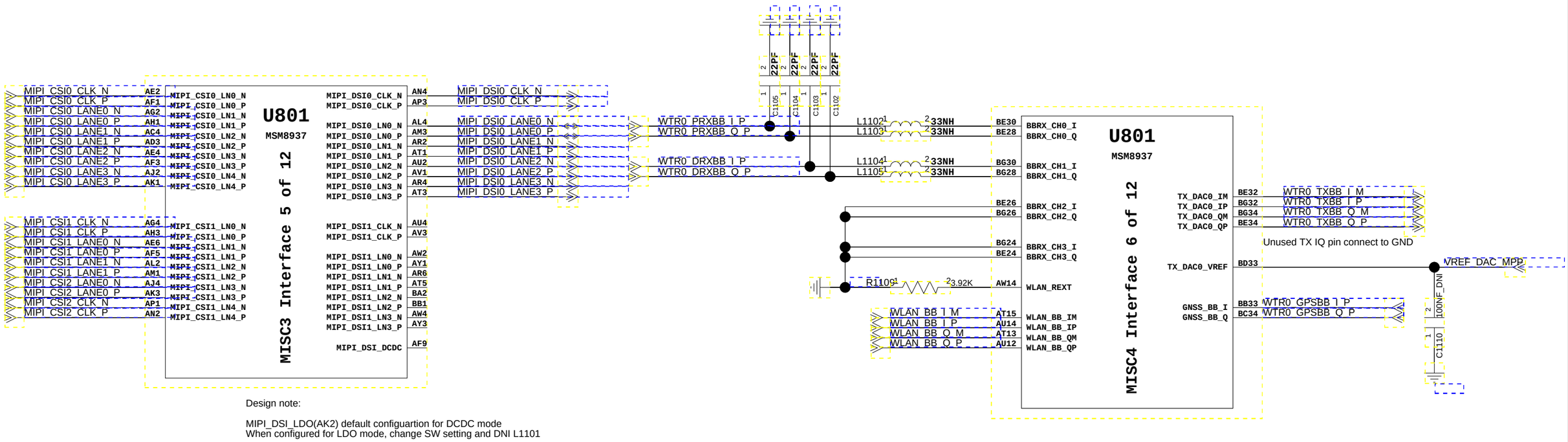
MainBoard ID	R1011	R1012	R1013	R1014	R1015	R1016	R1017	R1018
TRT-AL00 V3	SMT	DNI	DNI	SMT	DNI	DNI	DNI	DNI
TRT-TL10	SMT	DNI	DNI	SMT	DNI	DNI	SMT	DNI
TRT-LX1	SMT	DNI	DNI	SMT	SMT	DNI	DNI	SMT
TRT-LX2	SMT	DNI	DNI	SMT	SMT	DNI	DNI	DNI
TRT-LX3	SMT	DNI	DNI	SMT	SMT	DNI	SMT	DNI
TRT-L53	SMT	DNI	DNI	DNI	SMT	DNI	SMT	DNI
TRT-AL00 V4	SMT	DNI	DNI	DNI	DNI	DNI	DNI	DNI
TRT-AL00 VN1-MP	SMT	DNI	SMT	DNI	DNI	DNI	DNI	DNI
TRT-A1	SMT	DNI	SMT	DNI	DNI	DNI	SMT	DNI

BOOT_CFG [3:1]	
0b000	SDC1->SDC2->USB2.0
0b010	SDC1
0b100	SDC2-> SDC1

GPIO PIN	BOOT_CONFIG
GPIO_3	BOOT_CONFIG[0]/WDOG_DISABLE
GPIO_111	BOOT_CONFIG[1]
GPIO_112	BOOT_CONFIG[2]
GPIO_88	BOOT_CONFIG[3]

TRT-AL00 and TRT-AL00A use the same board ID

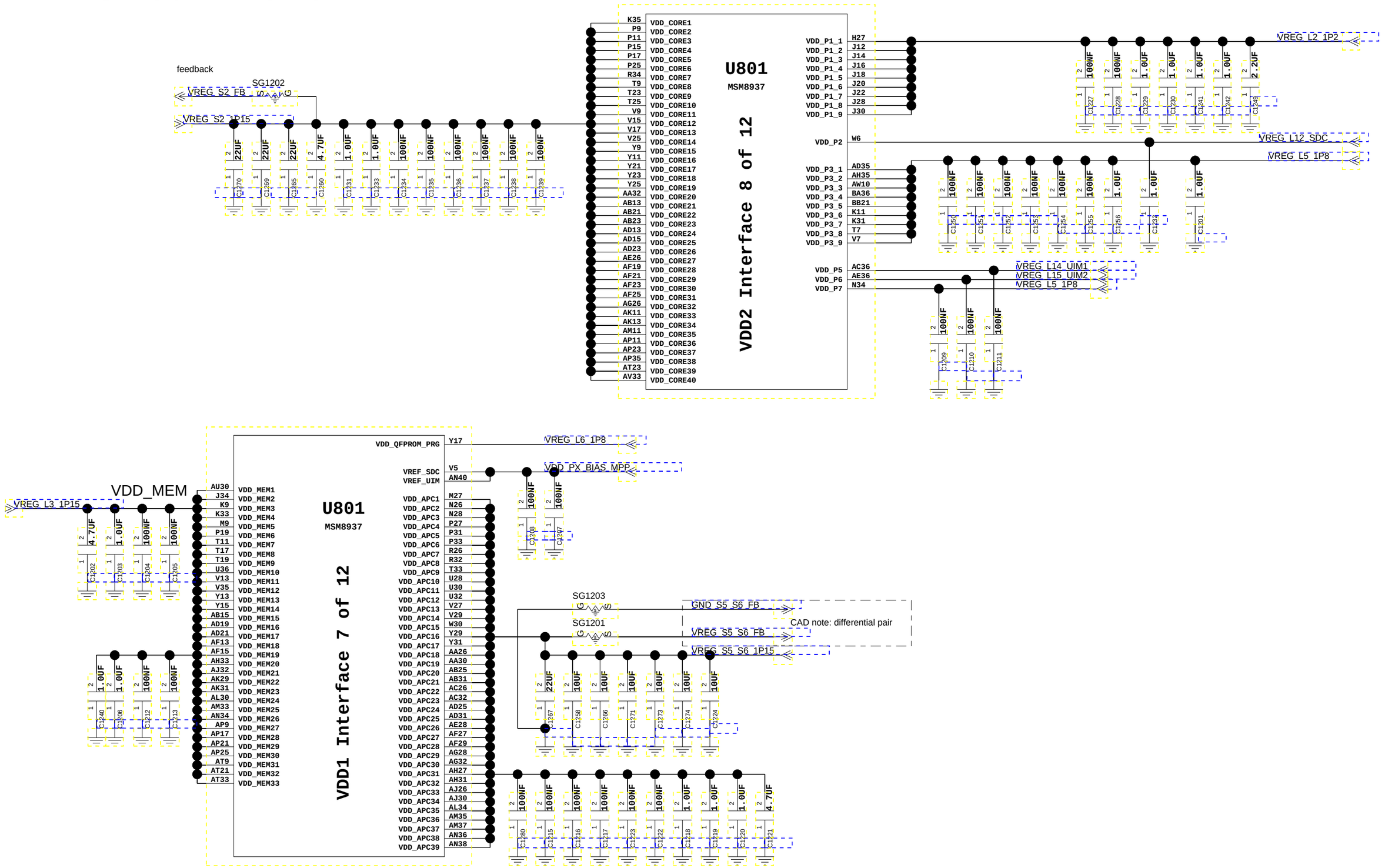
11. MSM8917 MIPI



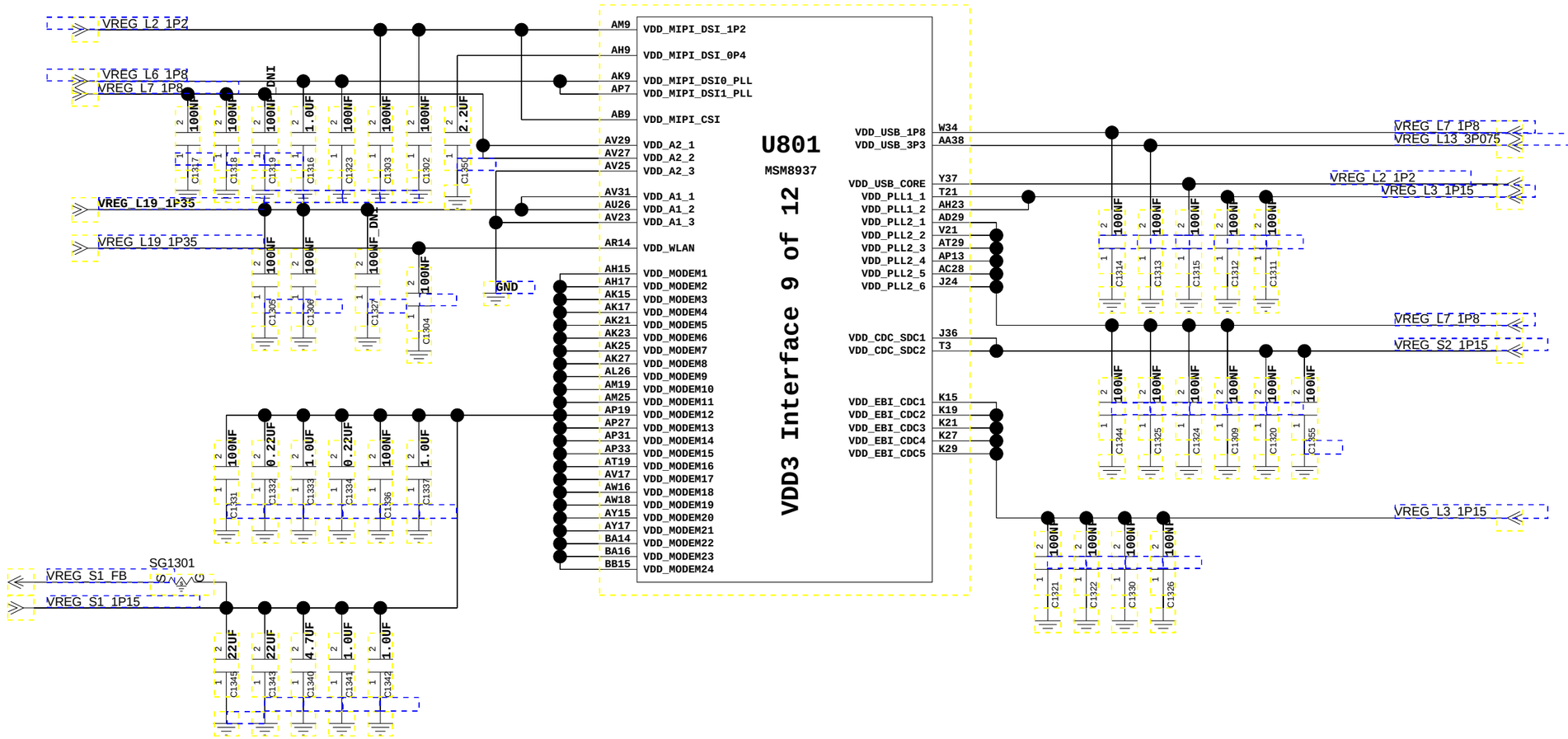
Design note:

MIPI_DSI_LDO(AK2) default configuartion for DCDC mode
When configured for LDO mode, change SW setting and DNI L1101

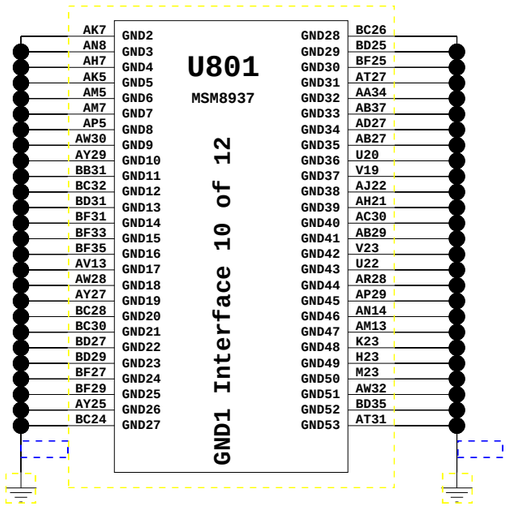
12. MSM8917 Power1

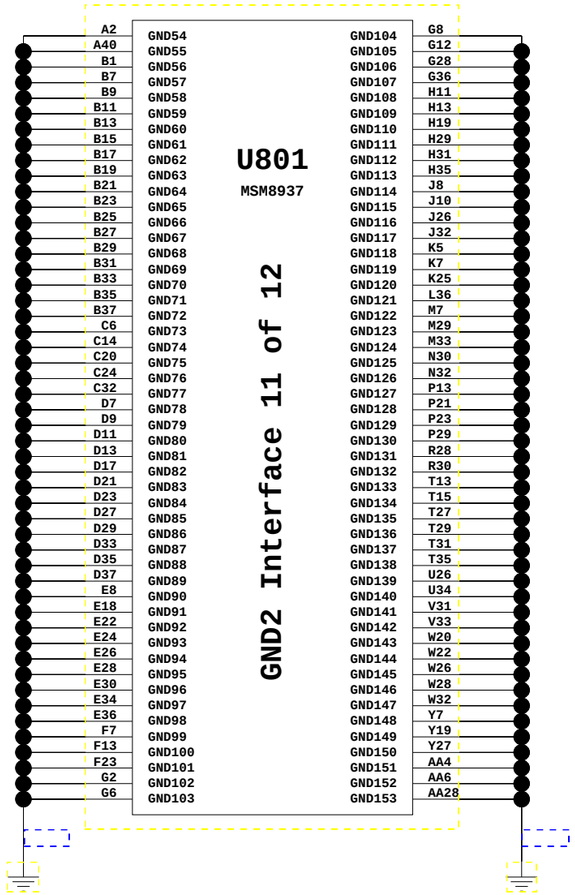


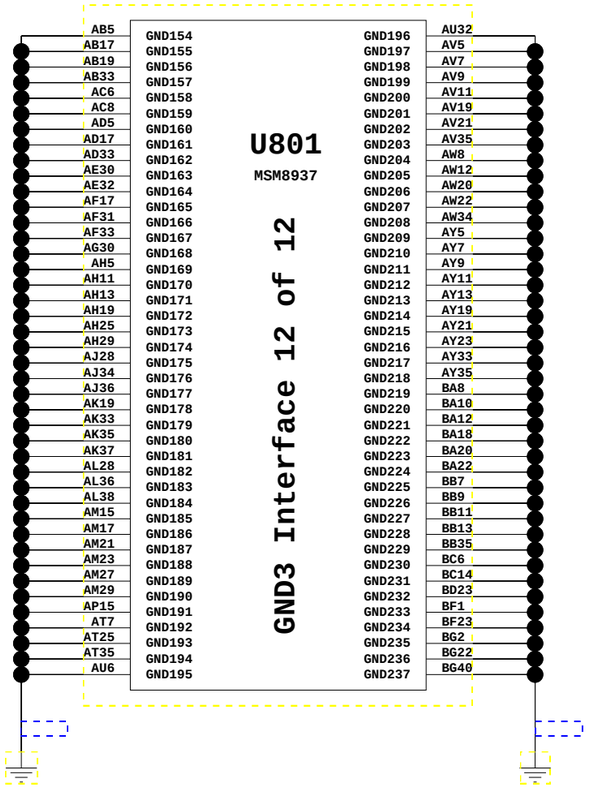
13. MSM8917 Power2



14. MSM8917 GND





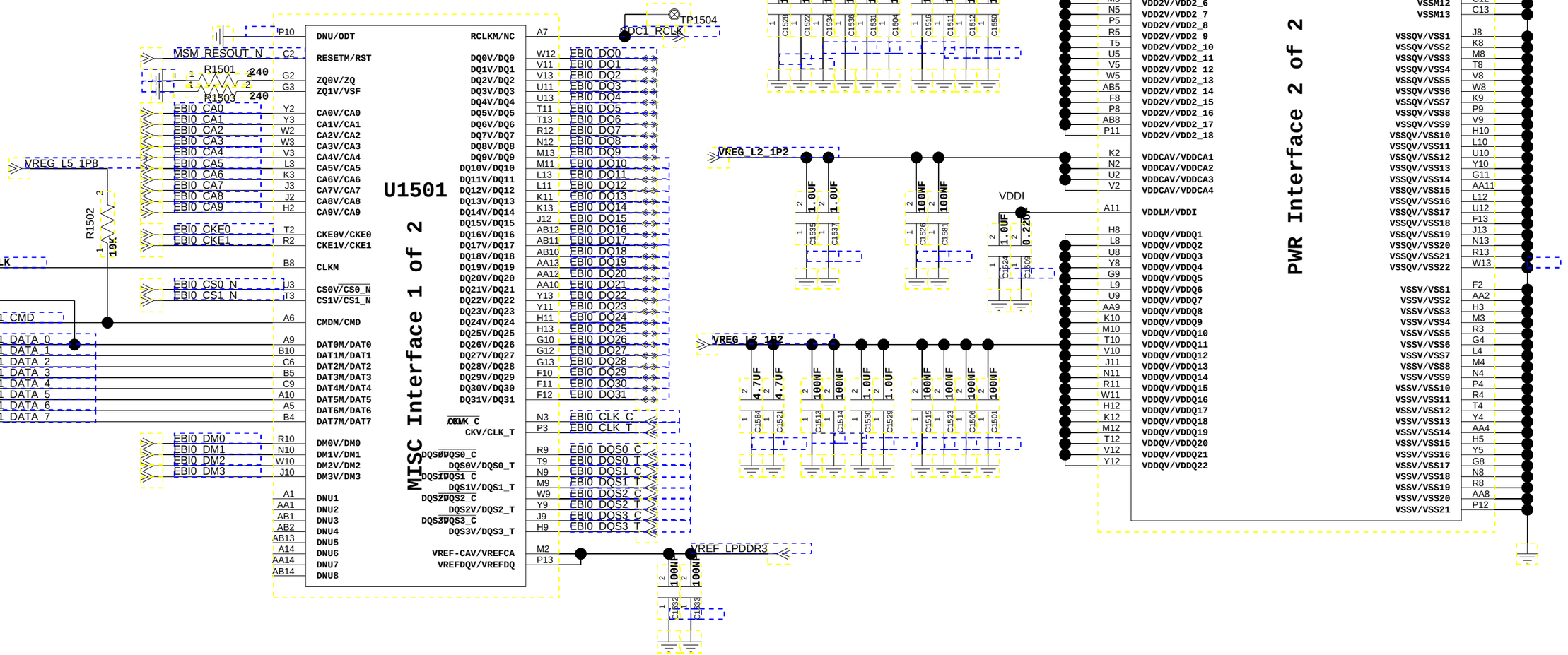


15. eMMC and LPDDR3

**BOM Notes:

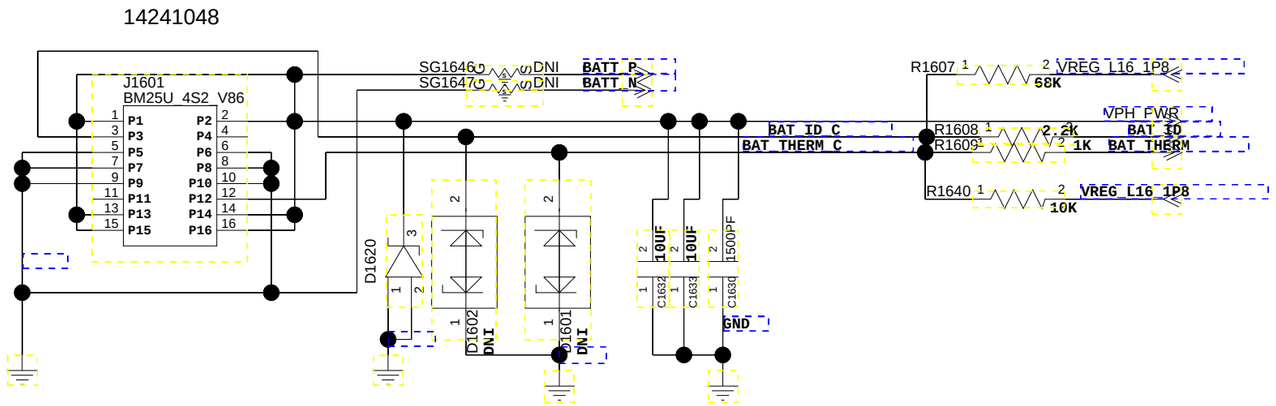
TRT_LX1/LX2/LX3: 2G LPDDR3+16G EMMC 40060810

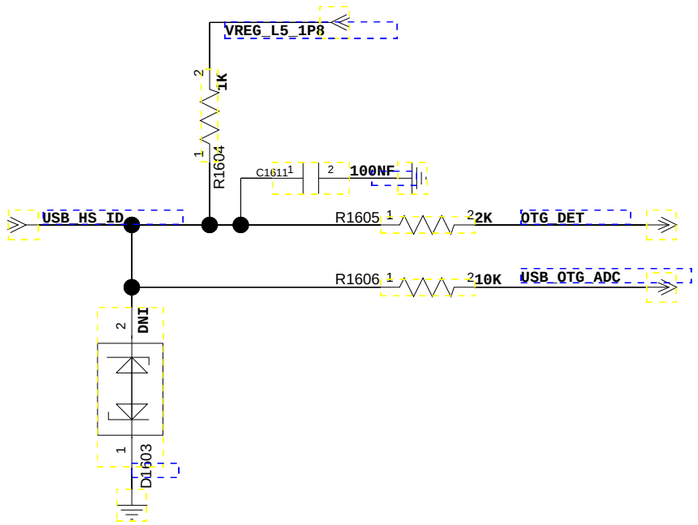
TRT_AL00/TL10: 3G LPDDR3+32G EMMC 40060812

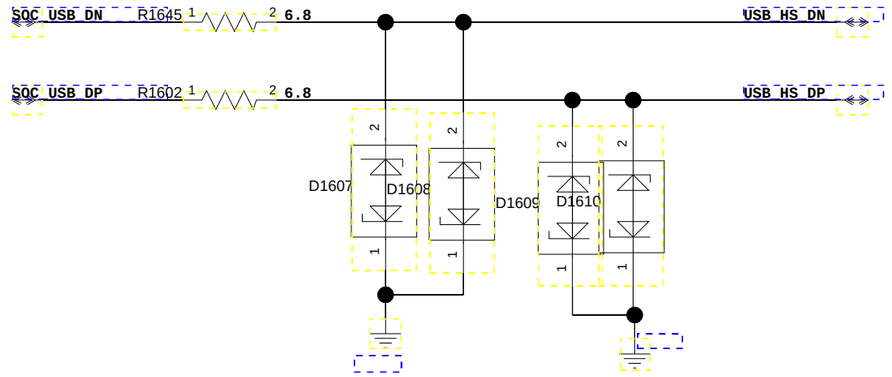


16. Battery/USB IF.

Battery Conector

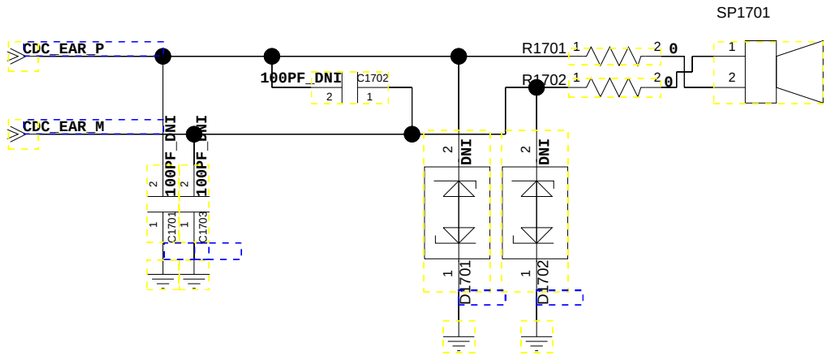




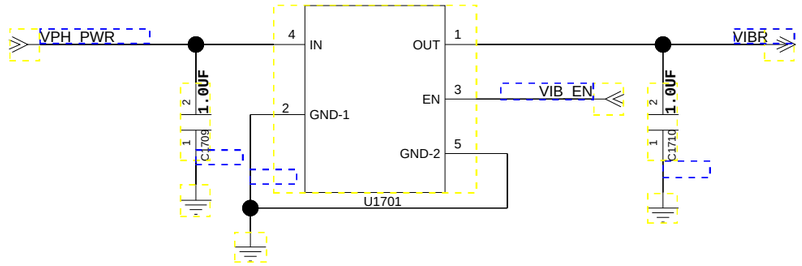


17. Receiver/SPK/Vibrator

Receiver

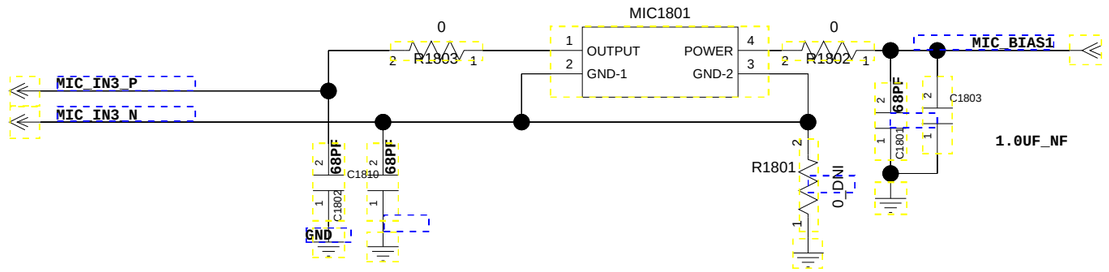


Vibrator



18. MIC

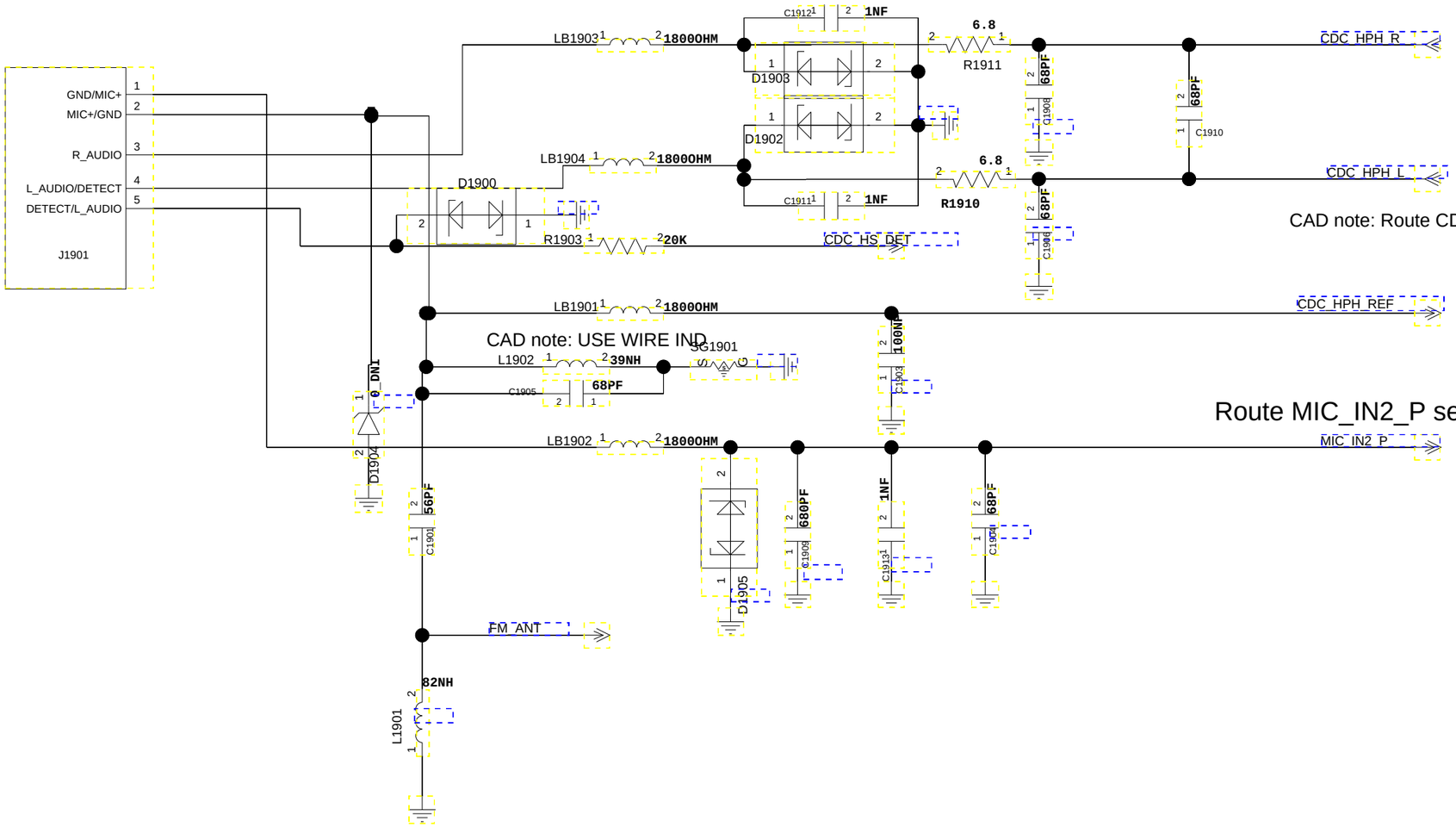
Secondary Mic



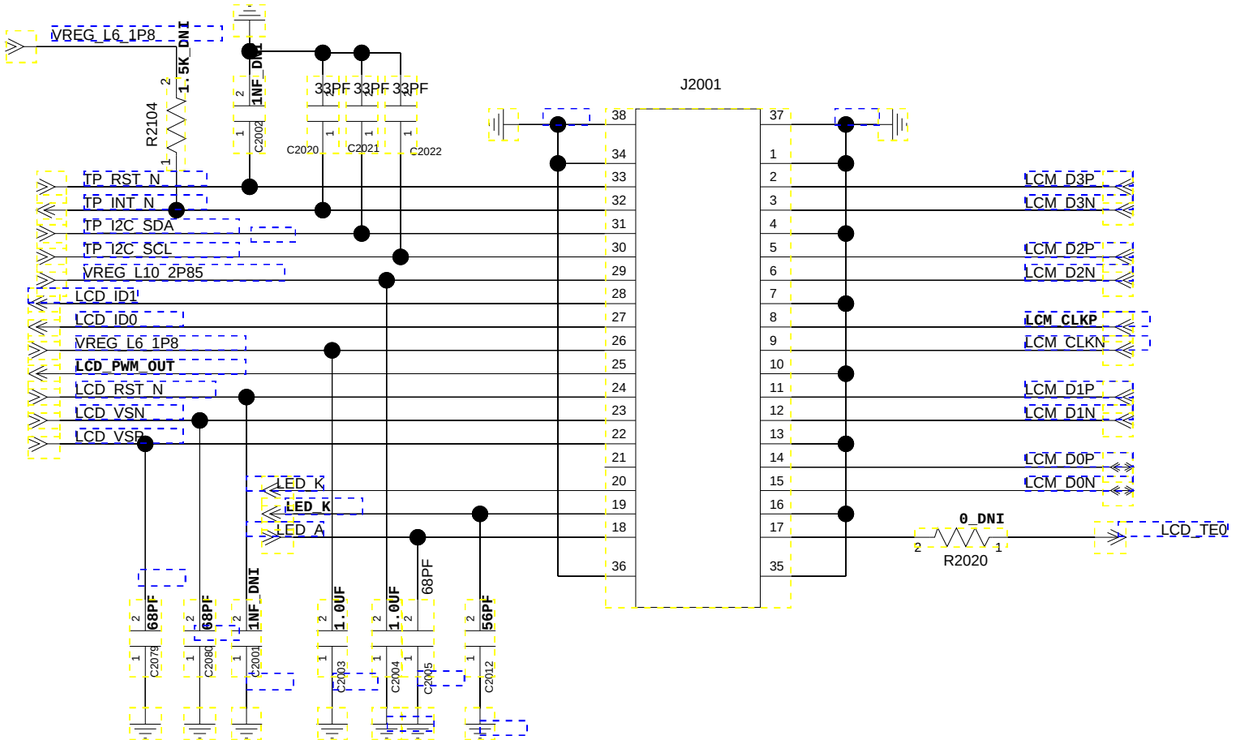
CAD NOTE:
route with differencial pair to the CODEC

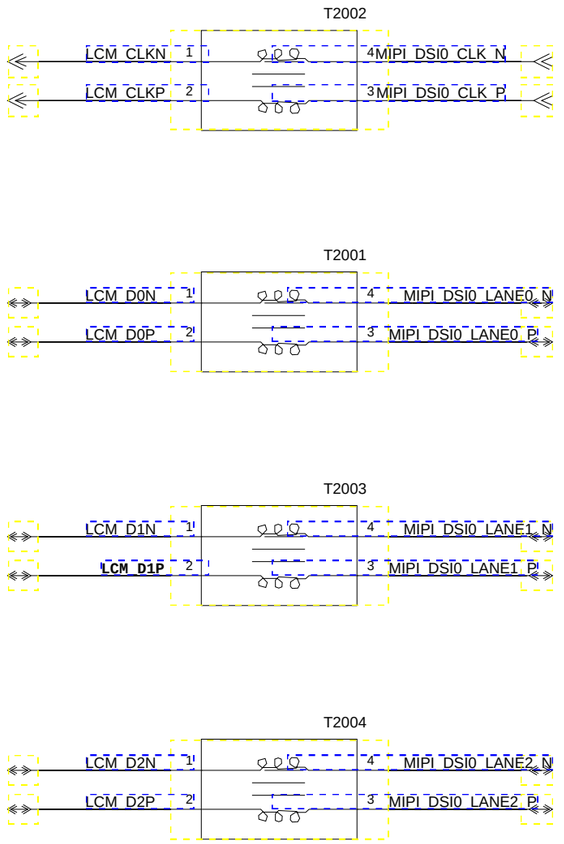
19. Earphone

Earphone

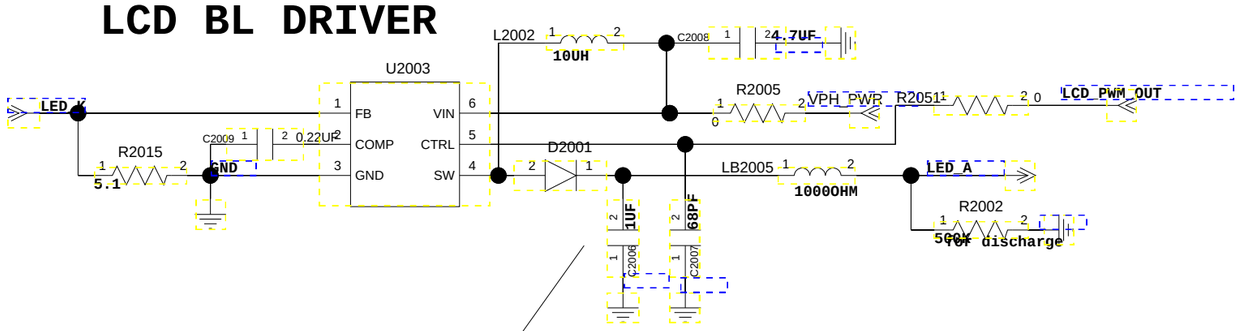


20. LCD/CTP IF.



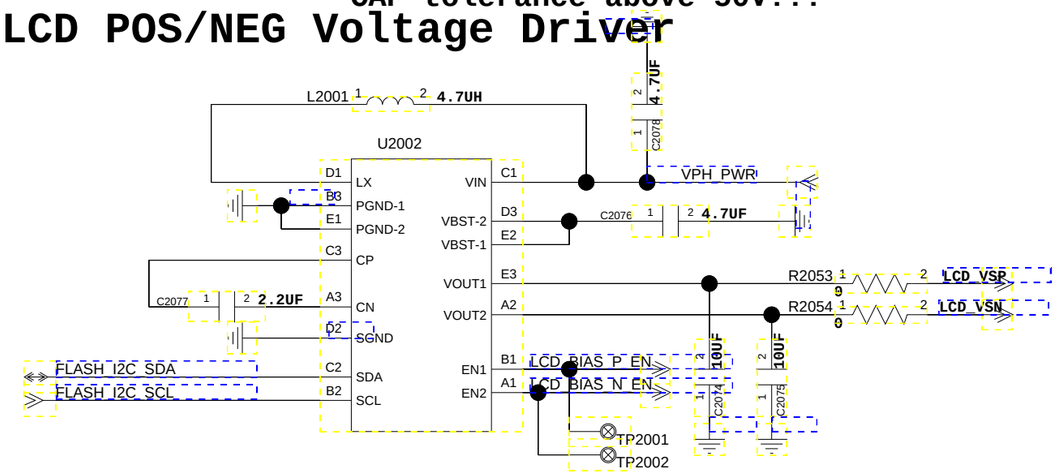


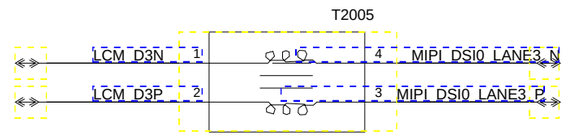
LCD BL DRIVER



CAP tolerance above 50V!!!

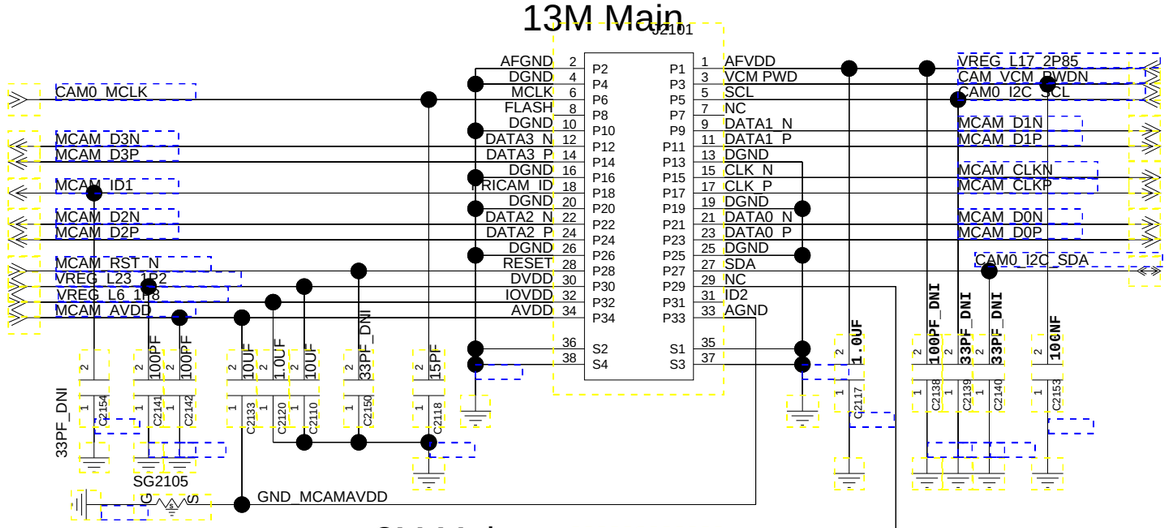
LCD POS/NEG Voltage Driver



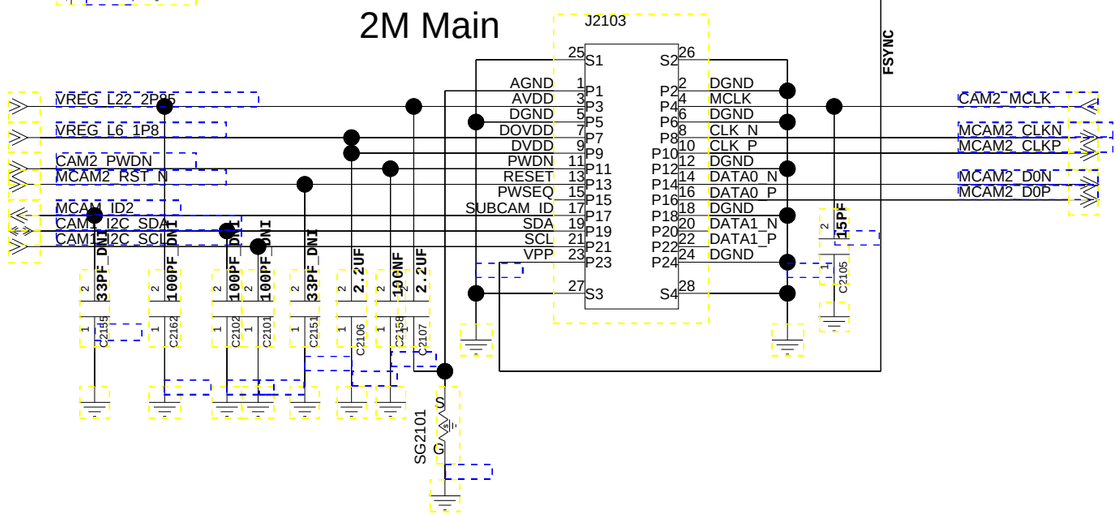


21. Camera IF.

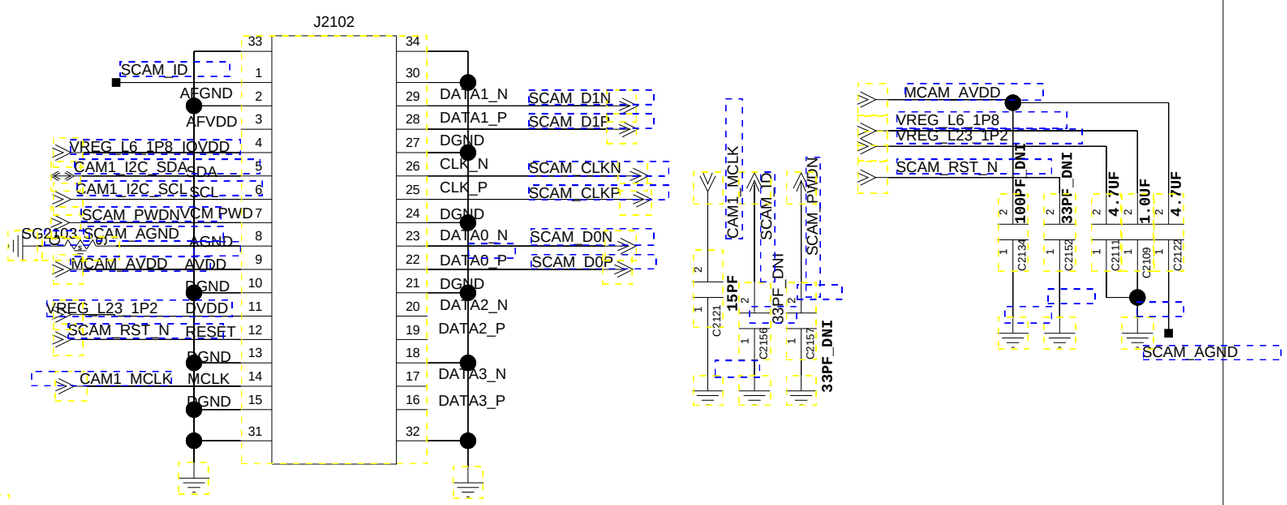
13M Main

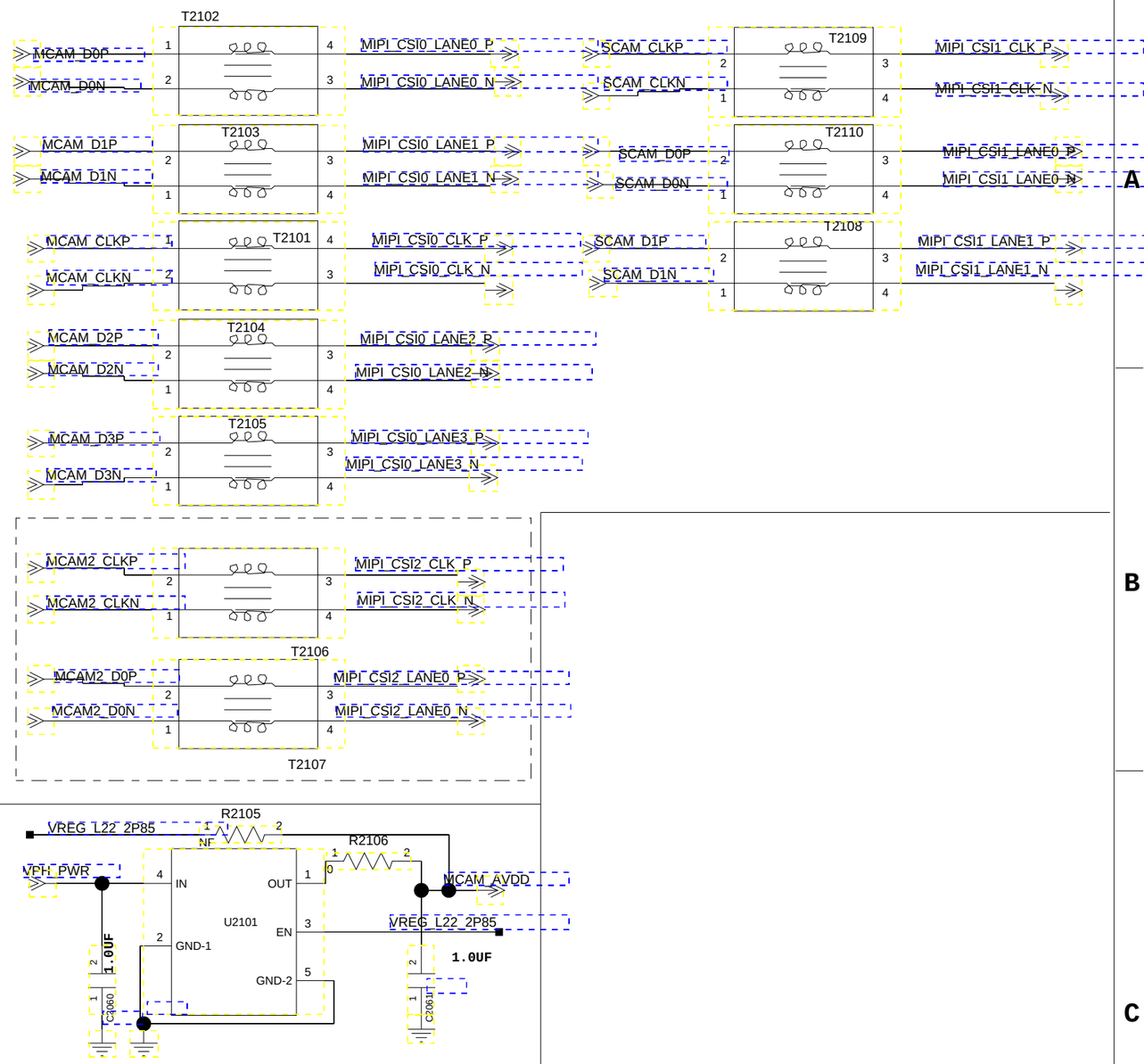


2M Main



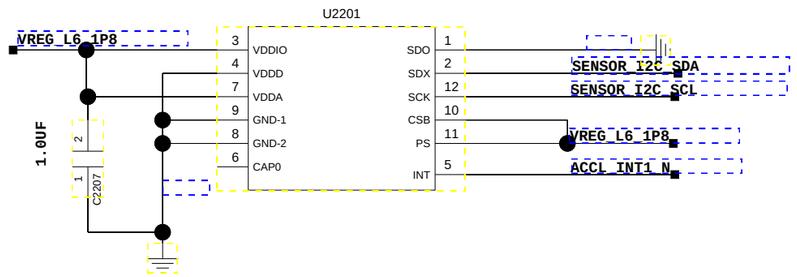
13M SUB

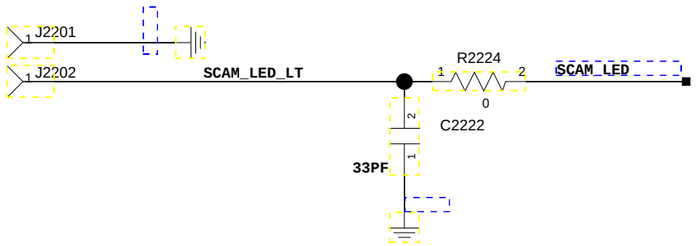


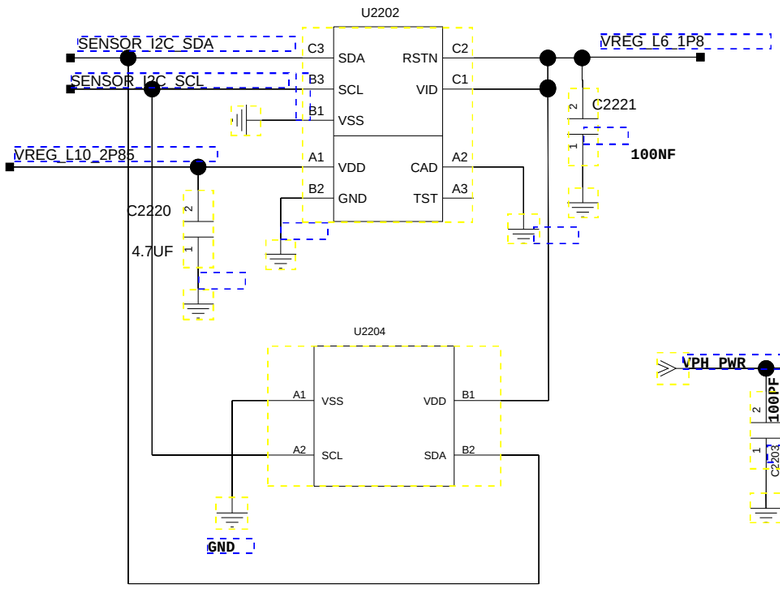


22. Sensor

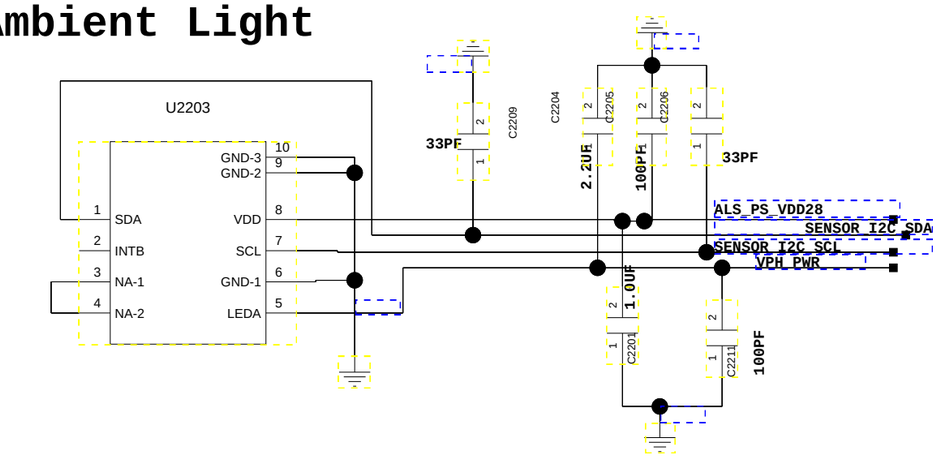
Accelerometer

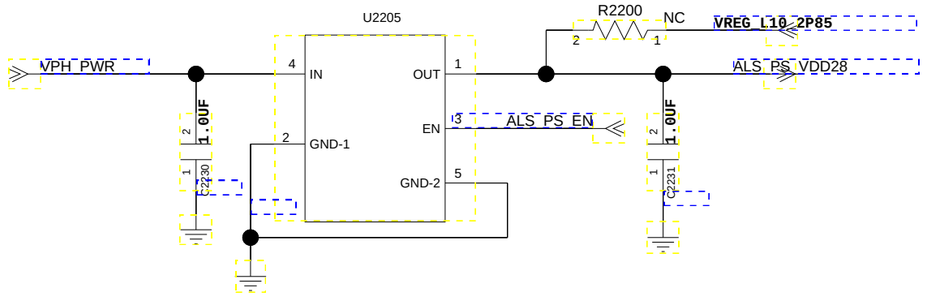




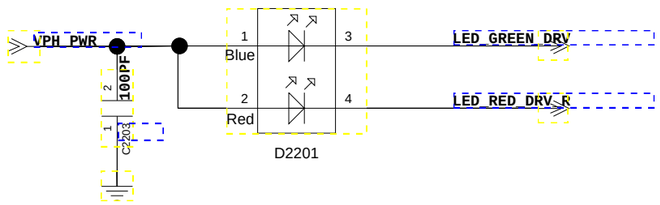


Ambient Light

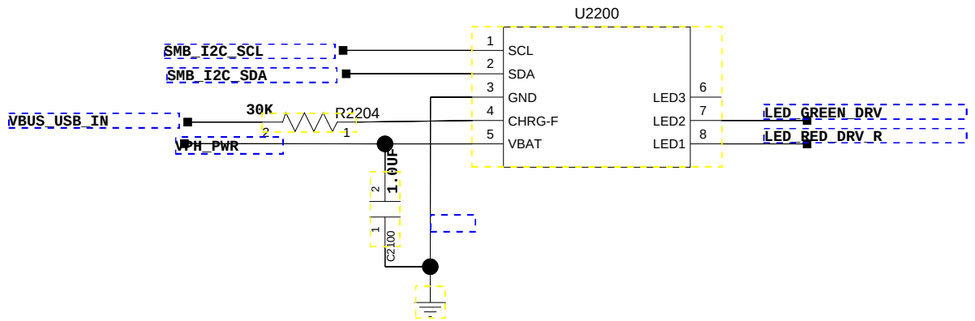




Status indicator

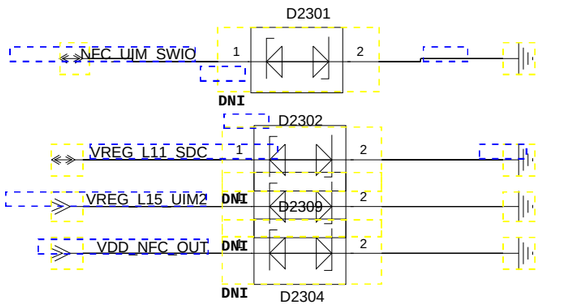


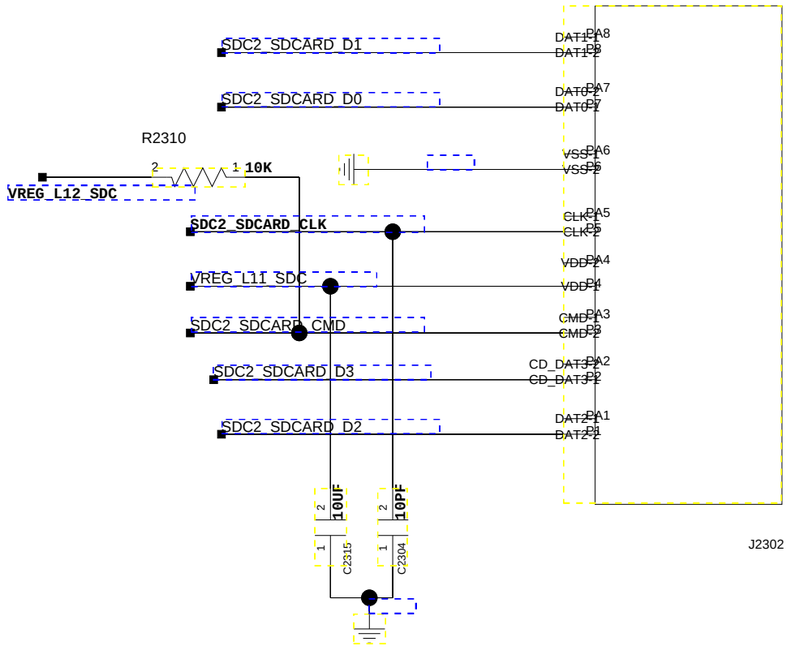
Status indicator

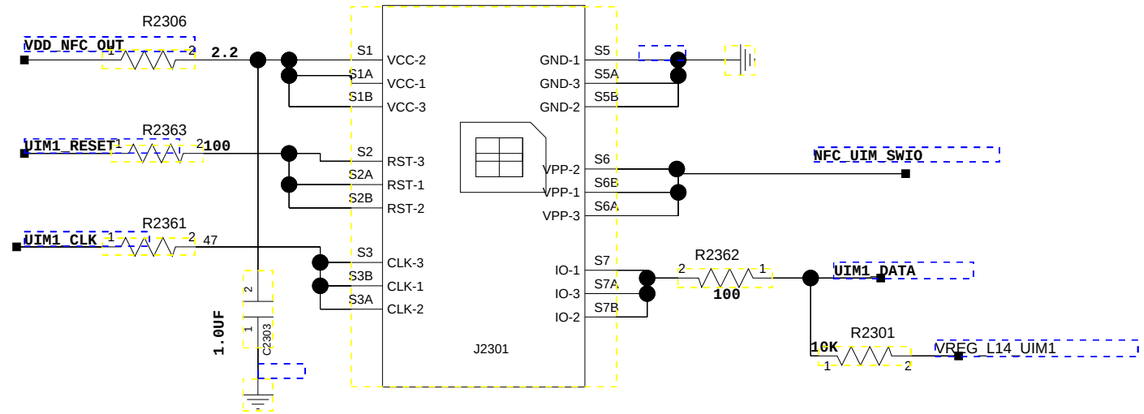


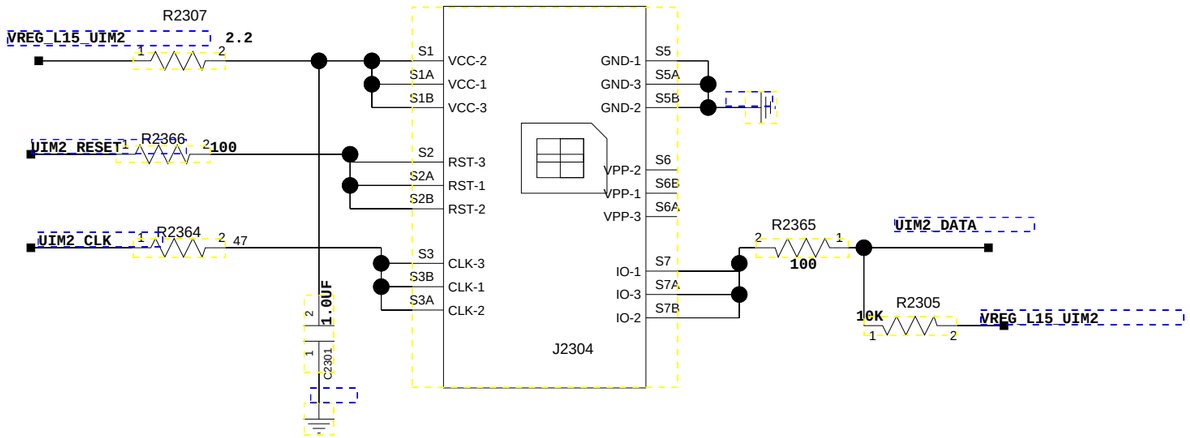
23. SIM/TF IF.

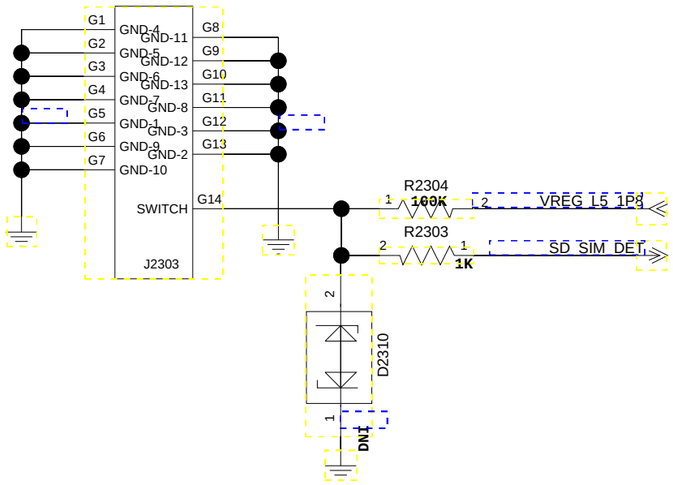
Nano SIM Card 1 TDL/UL/TDS/WCDMA/CDMA/GSM











24. Sidekey

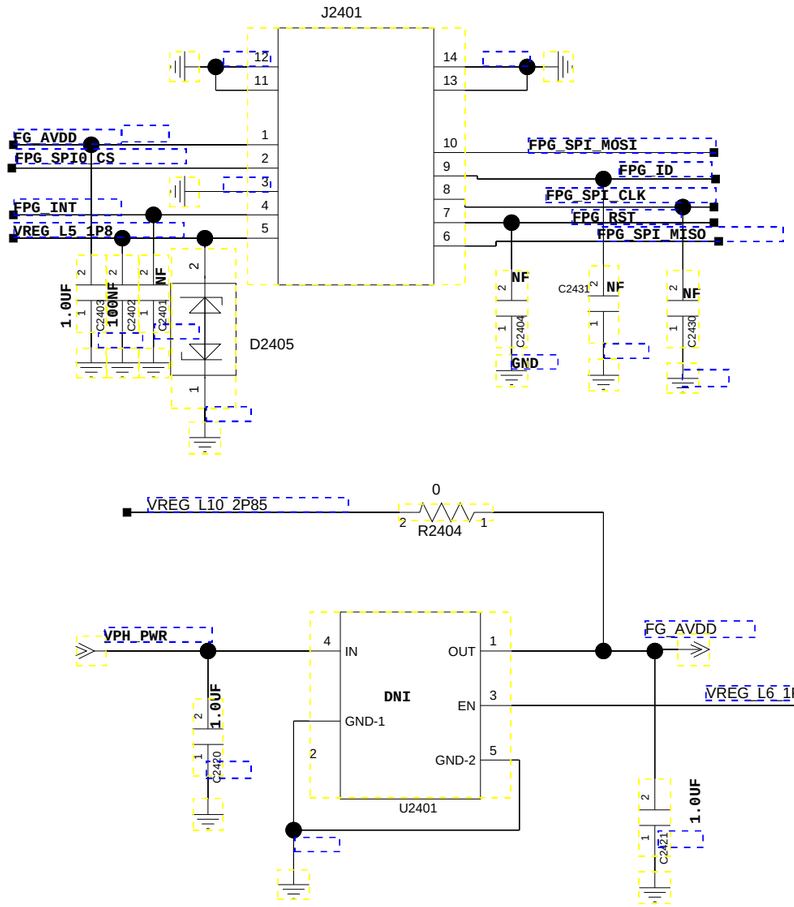
FingerPrint BTB

BOM Note:

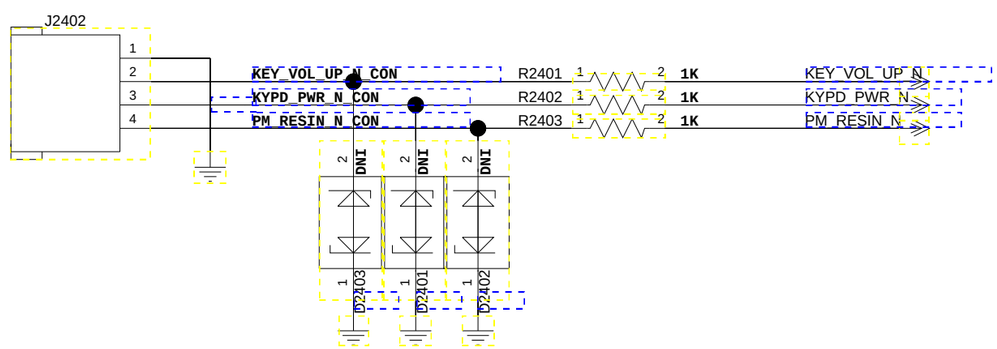
TRT_AL00/AL10/TL10 support FingerPrint;

TRT_LX1/LX2/LX3 not support FingerPrint,and all components of FingerPrint can DNI.

FingerPrint Module code is 23100012

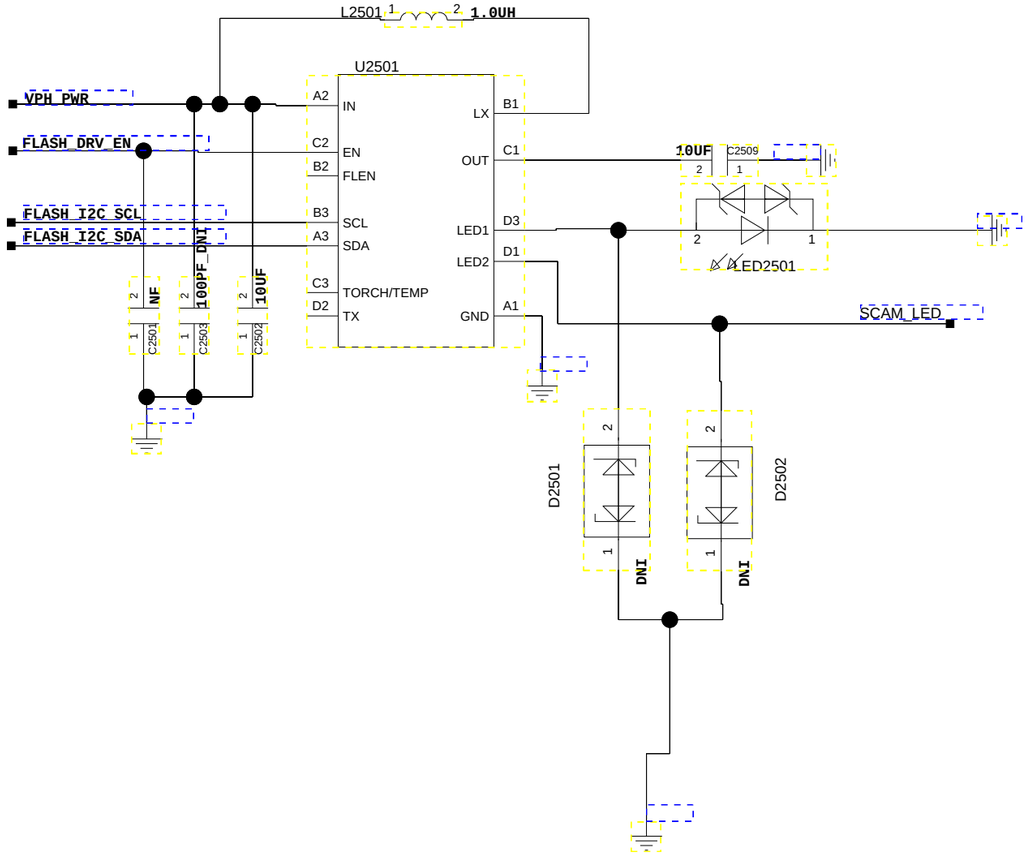


KEY BTB



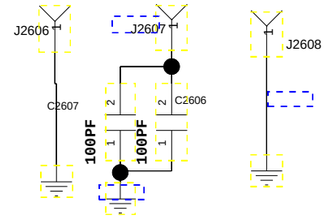
QC design notice: keep C_load < 10pf on KPD_PWR_N, RESIN_N, so D2401 D2402 change to 15040436

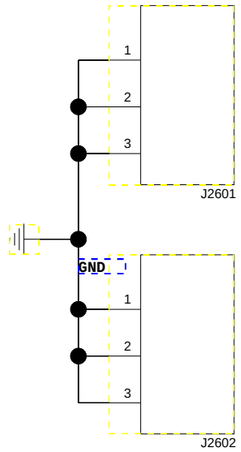
25. Flash


L2501
1.0UH
U2501
VPH_PWR
FLASH_DRV_EN
FLASH_I2C_SCL
FLASH_I2C_SDA
A2
IN
C2
EN
B2
FLEN
B3
SCL
A3
SDA
C3
TORCH/TEMP
D2
TX
B1
LX
C1
OUT
D3
LED1
D1
LED2
A1
GND
10UF
C2509
LED2501
SCAM_LED
C2501
NF
C2503
100PF_DNI
C2502
10UF
D2501
D2502
DNI
DNI

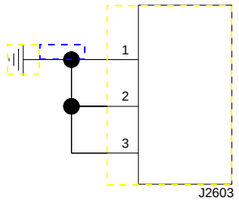
26. Shielding

GND springs

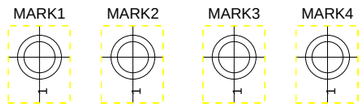




Sub camera BTB bracket



MARK POINT

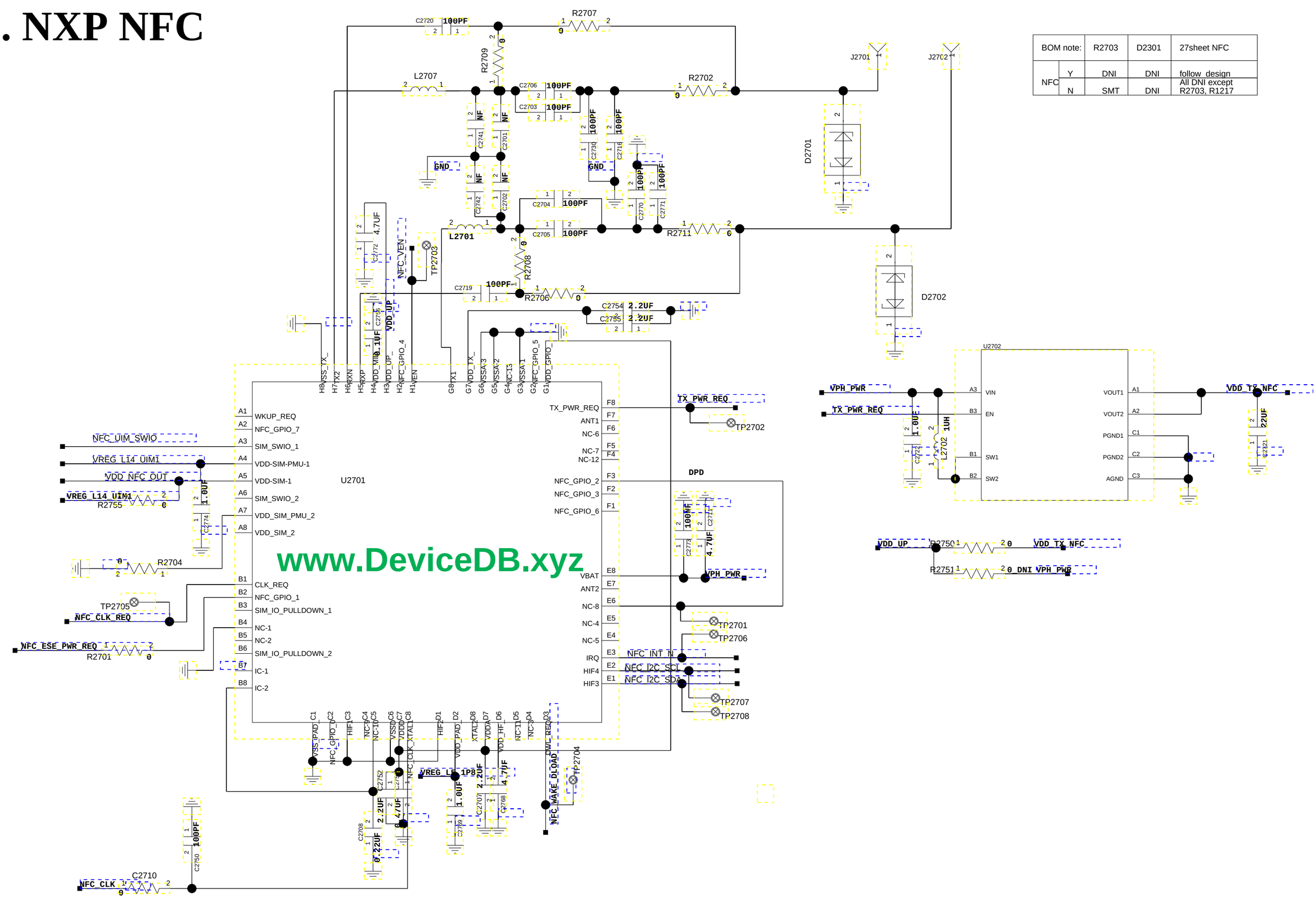


Shielding

HOLE

27. NXP NFC

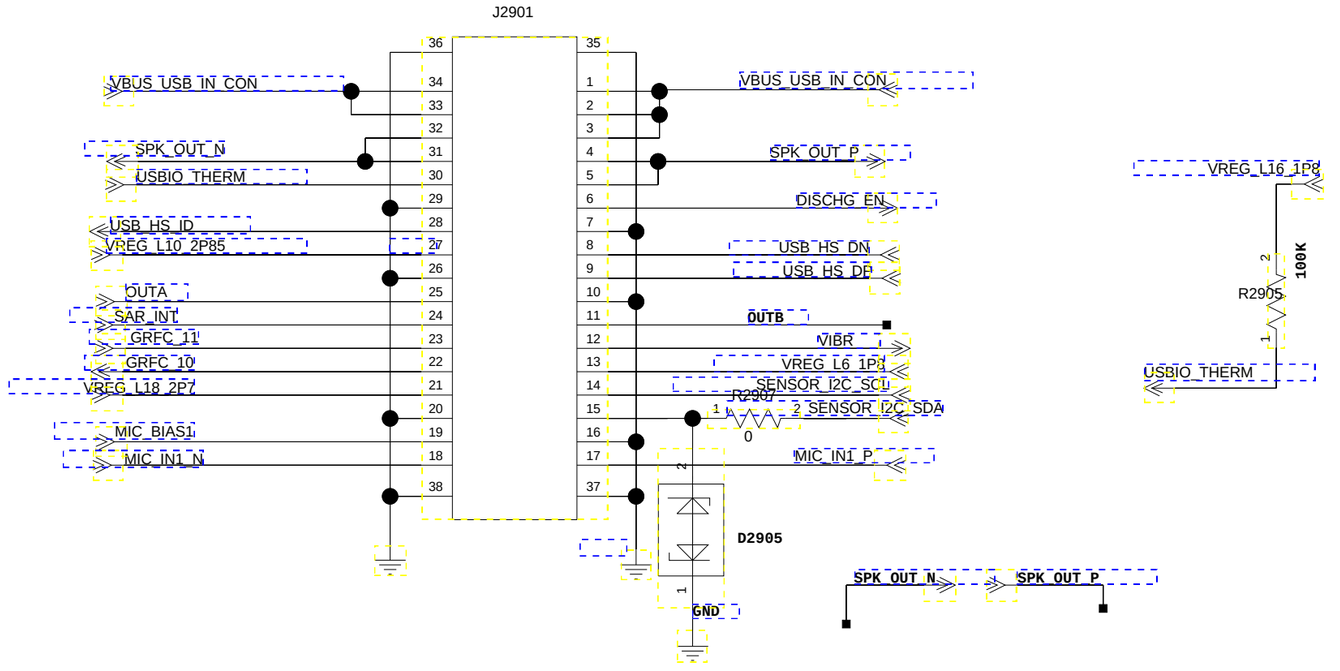
BOM note:		R2703	D2301	27sheet NFC
NFC	Y	DNI	DNI	follow_design
	N	SMT	DNI	All DNI except R2703, R1217



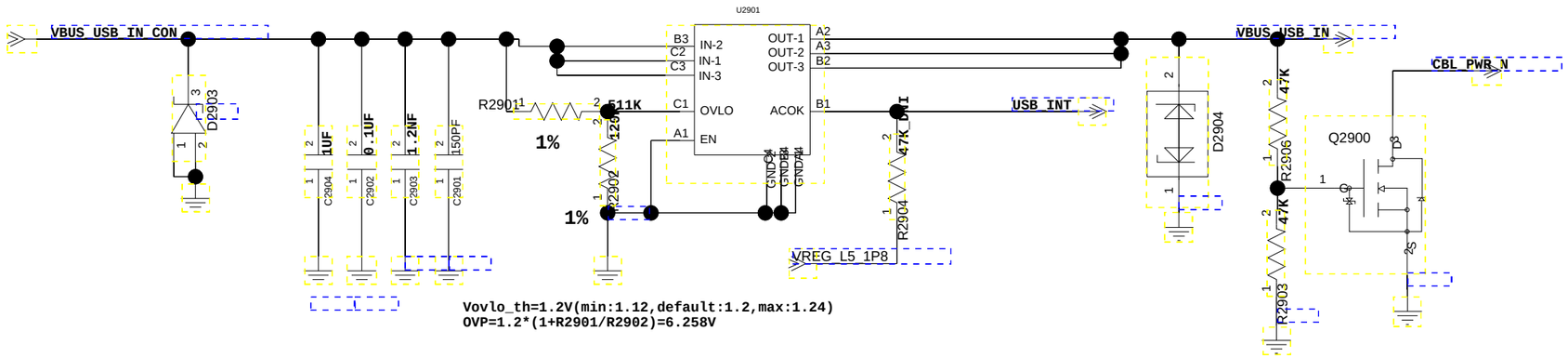
28. DPS_ALS

29. Sub FPC IF

Main FPC BTB

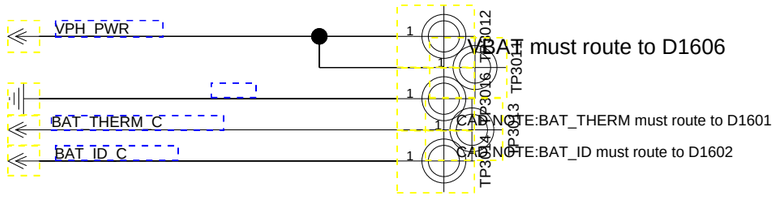


Plase close to J2901 placement

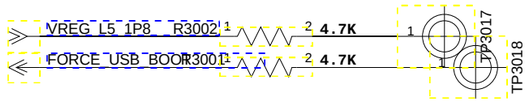


30. Test Points.

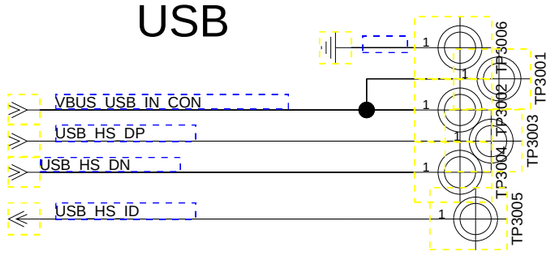
CT BT



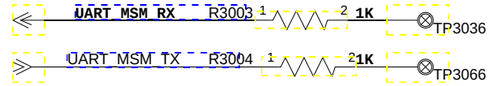
BOOT



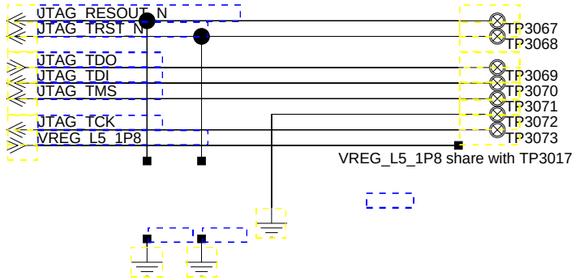
USB



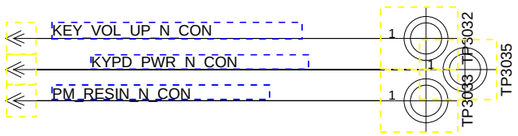
UART



JTAG



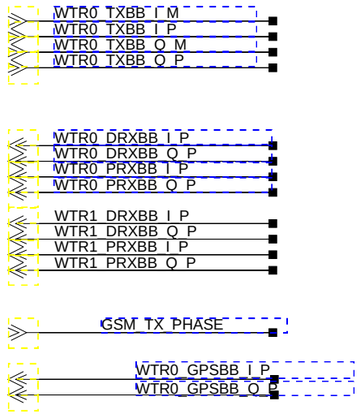
Sidekey



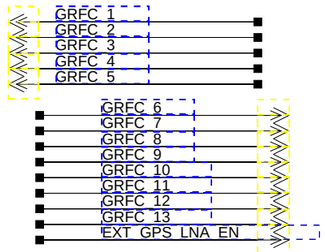
31.RF Interface

32_RF Transceiver0
33_APT Power
34_Reserved
35_TRX B12/17/20/28 PRX_B34
36_MMMB PA SKY77643
37_TRX B1/2/3/4/5/7/8
38_TX MATCHING CIRCUIT of B38/40/41
39_PRX B39/41/38/G850/900/1800/1900
40_TXM SKY77916
41_DIV_ANT1_SWITCH
42_DRX B1/4_2/3_5/20_7_8/12/17_28
43_DRX B39/41/38/40
44_DPDT
45_DIV_ANT1_TUNER
46_ANTENNA MATCH
47_Reserved
48_Reserved
49_Reserved
50. backup
51. backup
52. backup
53_Reserved
54_Reserved
55_Reserved
56_Reserved
57_Reserved
58_Reserved
59_Reserved
60_Reserved
61_Reserved
62_Reserved
63_Reserved
64_Reserved
65_Reserved
66_Reserved
67_WIFI/GPS ANTENNA MATCH
68_Reserved

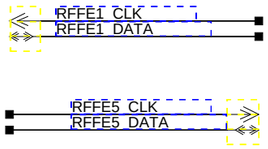
WTR2965 RF Interface



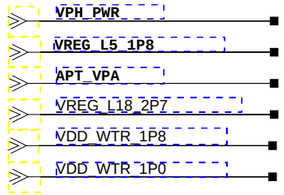
GPIO Interface



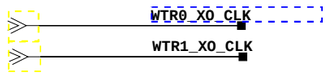
MIPI Interface



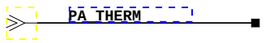
Power



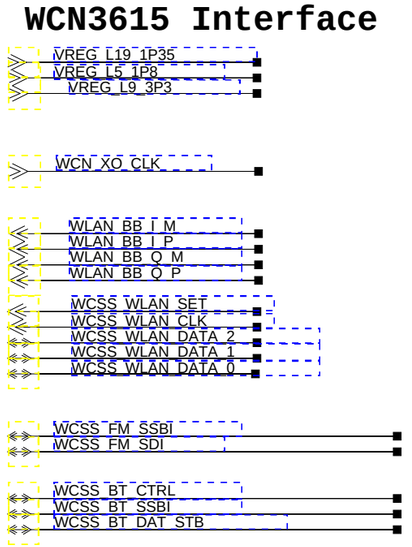
CLOCK



PA temperature



WCN3615 Interface



32_Reserved

33.Reserved

34_Primary ASM

TRX11 ﾀｭﾃﾞﾀB2 ﾆ蓋鮃3
TRX9 ﾀｭﾃﾞﾀB4 ﾆ蓋鮃2

RF_B41_TX_TXM
RF_B38/40_TX_TXM
RF_B7_TRX_TXM
RF_B1_TRX_TXM
RF_B2/B3_TRX_TXM
RF_B39_PRX_TXM
RF_B34_PRX_TXM

MAIN_TXM

RF_B2/B4/G1900_TRX_TXM
RF_B5/6/19_TRX_TXM
RF_B28H_TRX_TXM
RF_B28L/20/12_TRX_TXM
RF_B8_TRX_TXM
RF_B34/39_TX_TXM

R3402 51

MMMB_PA_IN_LB

WTR0_TX_DA2_LB
9.1NH L3407
3.9PF C3413
3.9PF C3401
C3405 47PF

WTR0_TX_DA1_GSM_HB
3.6NH L3405
2.2PF C3412
2.2PF C3408
C3402 47PF

NF R3401

RFFE1_CLK
RFFE1_DATA
VREG_L5_1P8
R3403 0
R3409 0

100K R3405

C3423 NC
C3407 NC
C3404 100PF

R3404 15
56PF C3418

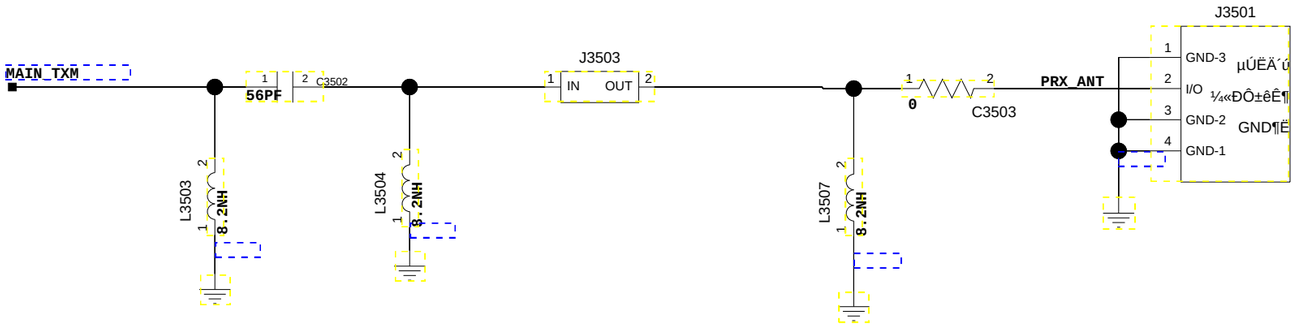
R3407 200
R3406 200

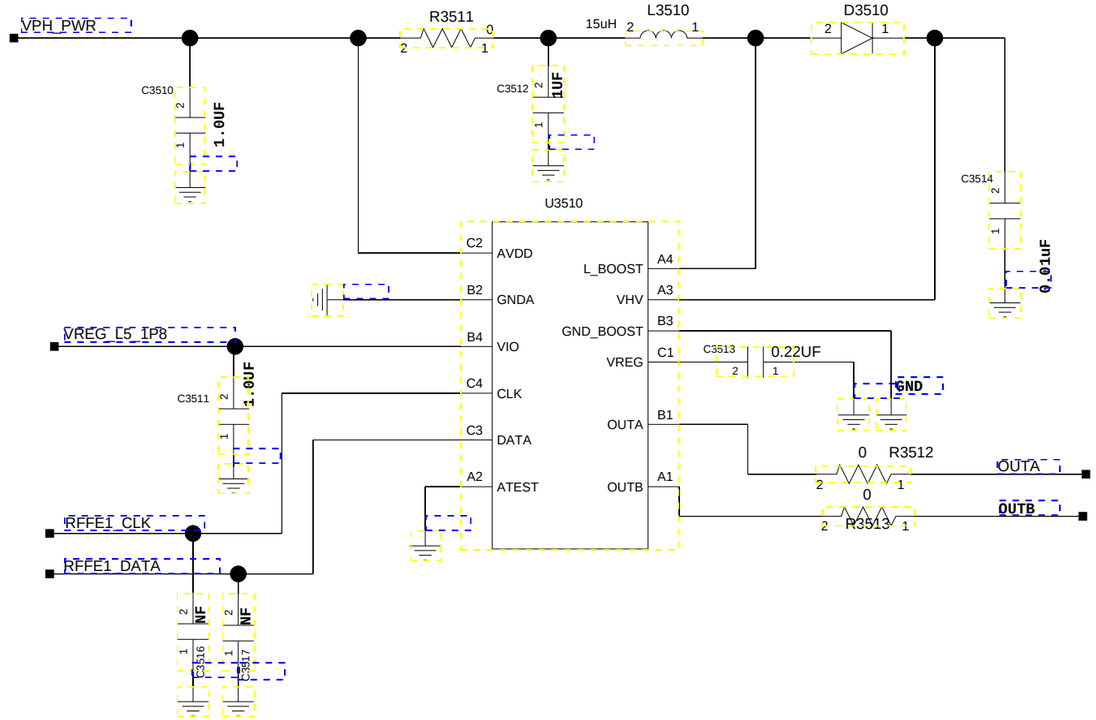
U3402
WTR0_FBRX_RFIN
56PF C3419
R3408 51
56PF C3420
RF1
RF2
RF3
GND
VC1
VDD

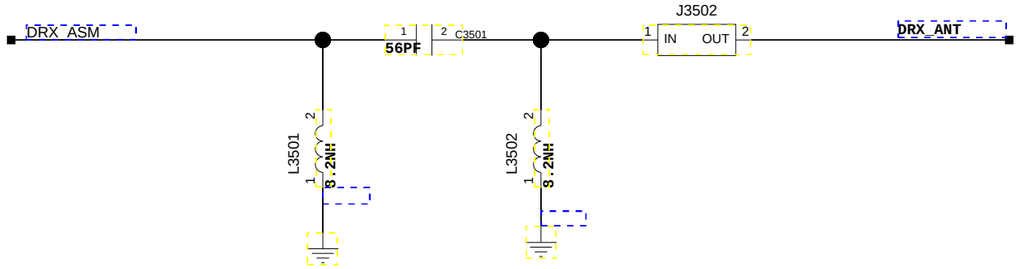
6PFC_8
VREG_L18_2P7
C3426 100PF
C3425 100PF

API_VPA
VPH_PWR
C3427 100PF
C3415 1NF
D3401
C3411 10UF
D3402 0
C3428 100PF
C3409 1NF
C3421 10UF

35_RF SWITCH

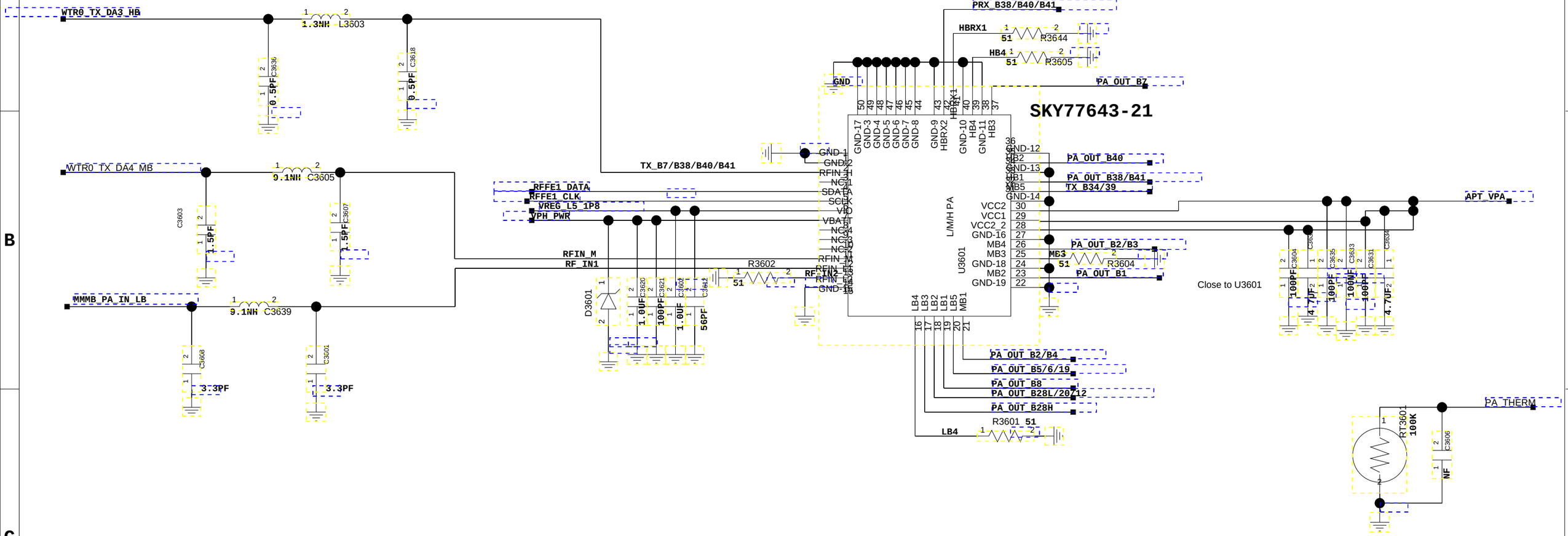






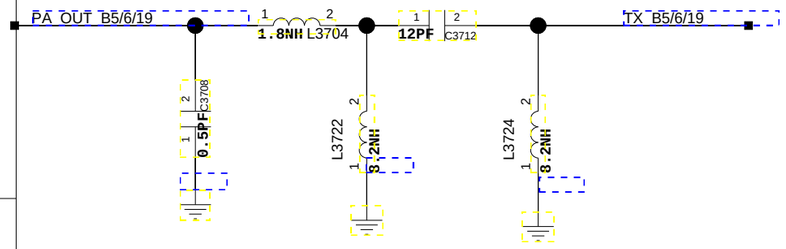
L3501 close to U5001

36_MMPA

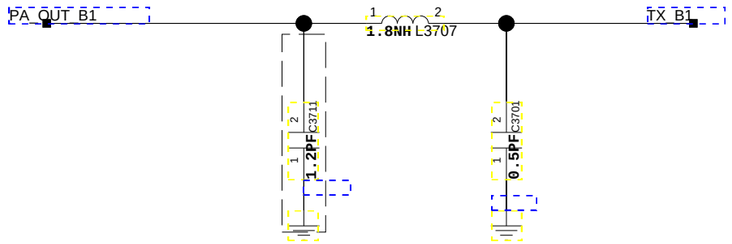

WTR0_TX_DA3_HB
1.3NH L3603
0.5PF C3636
0.5PF C3618
WTR0_TX_DA4_MB
9.1NH C3605
C3603
1.5PF
1.5PF C3607
MMMB_PA_IN_LB
9.1NH C3639
C3608
3.3PF
C3601
3.3PF
TX_B7/B38/B40/B41
RFFE1_DATA
RFFE1_CLK
VREG_L5_1P8
VPH_PWR
RFIN_M
RF_IN1
R3602
51
D3601
1.0UF C3620
100PF C3621
1.0UF C3602
56PF C3611
PRX_B38/B40/B41
HBRX1
51 R3644
HB4
51 R3605
GND
PA_OUT_B7
SKY77643-21
GND-17 GND-3 GND-4 GND-5 GND-6 GND-7 GND-8 GND-9 HBRX2 HBRX1 GND-10 HB4 GND-11 HB3
50 49 48 47 46 45 44 43 42 41 40 39 38 37
GND-1 GND-2 RFIN_2 NC_1 SDATA SCLK VIO VBATT NC_4 NC_3 NC_2 RFIN_1 RFIN_2 RFIN_3 RFIN_4 GND-15
L/M/H PA
U3601
VCC2 VCC1 VCC2_2 GND-16 MB4 MB3 GND-18 MB2 GND-19
30 29 28 27 26 25 24 23 22
GND-12 HB2 GND-13 HB1 MB5 GND-14
PA_OUT_B40
PA_OUT_B38/B41
TX_B34/39
PA_OUT_B2/B3
MB3
51 R3604
PA_OUT_B1
APT_VPA
Close to U3601
C3604 100PF
C3635 100PF
C3633 100UF
C3631 100PF
C3634 4.7UF
4.7UF
LB4 LB3 LB2 LB1 LB5 MB1
16 17 18 19 20 21
PA_OUT_B2/B4
PA_OUT_B5/6/19
PA_OUT_B8
PA_OUT_B28L/20/12
PA_OUT_B28H
R3601 51
LB4
PA_THERM
RT3601 100K
C3606 NF

37_MATCHING_CIRCUIT_of_MMMBPA

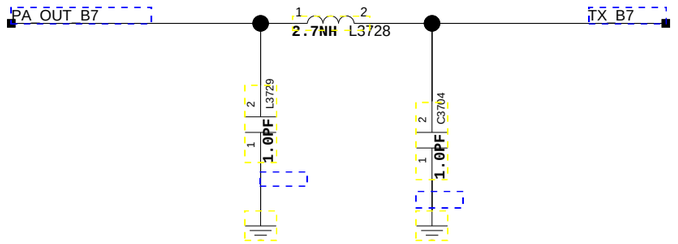
Close to MMMB PA

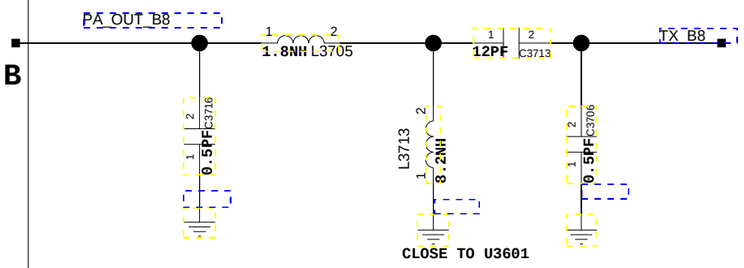


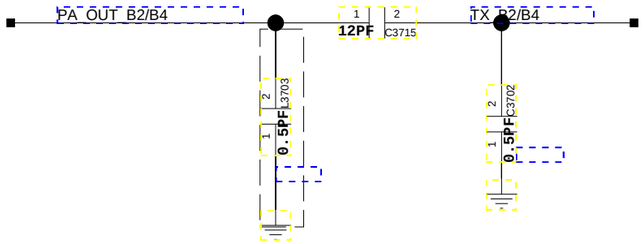
Close to MMMB PA

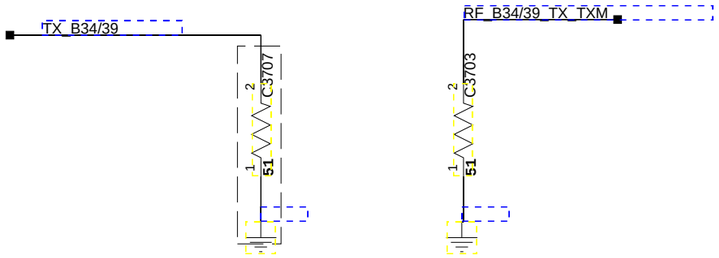


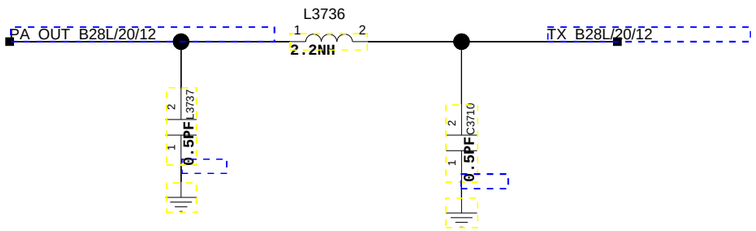
Close to MMMB PA

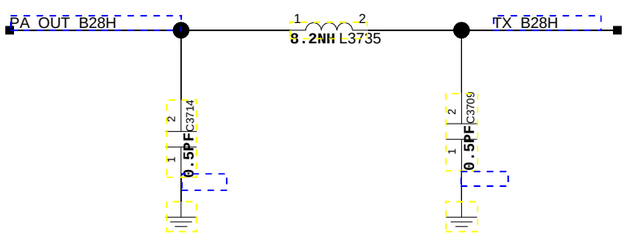


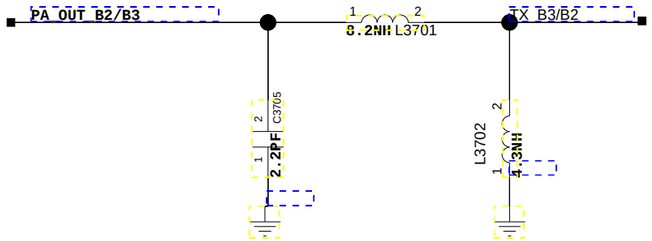




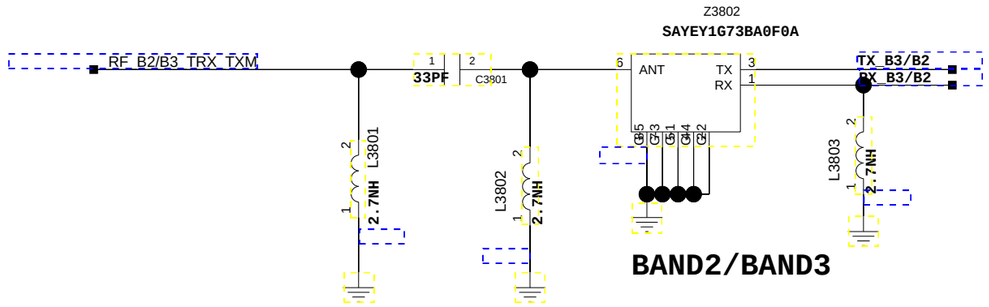




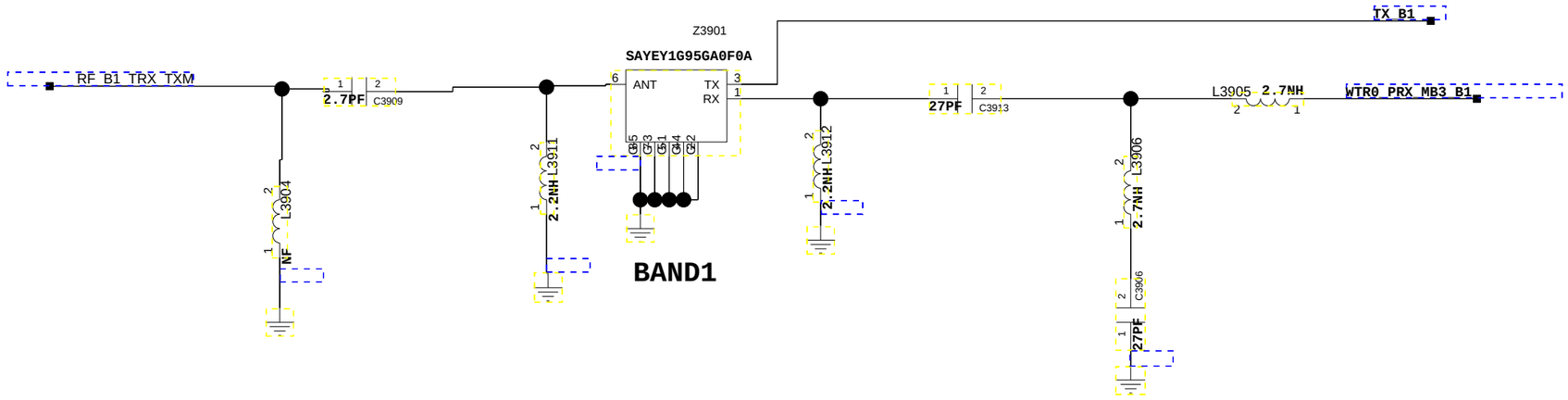




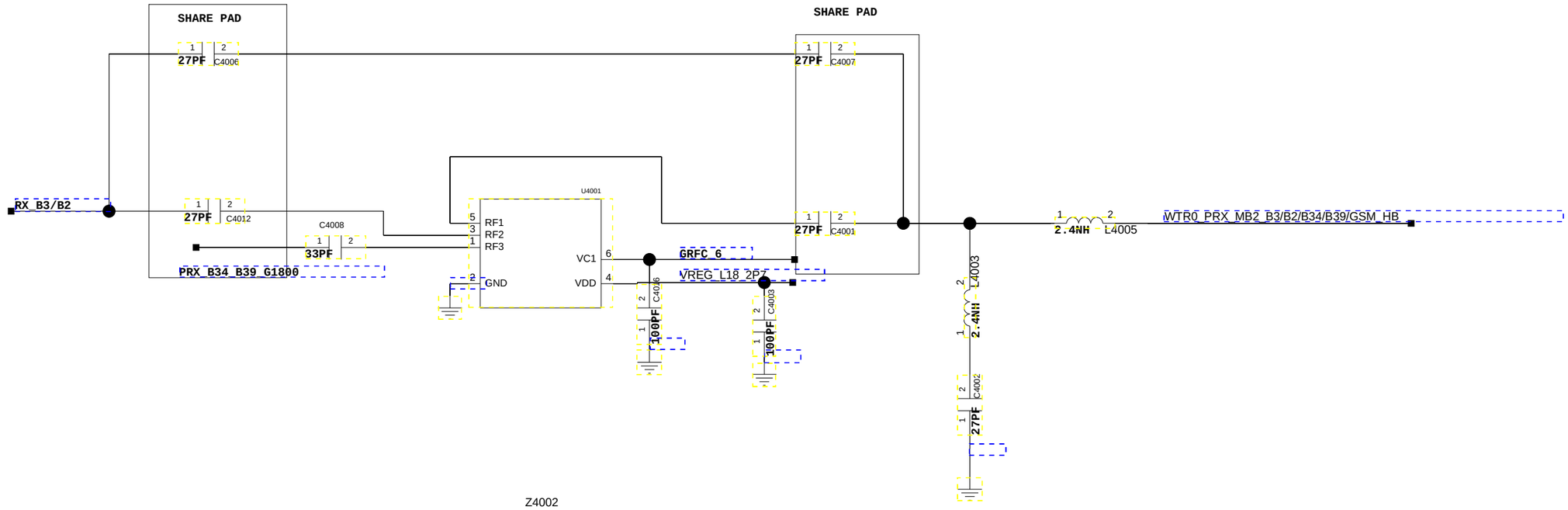
38_Reserved

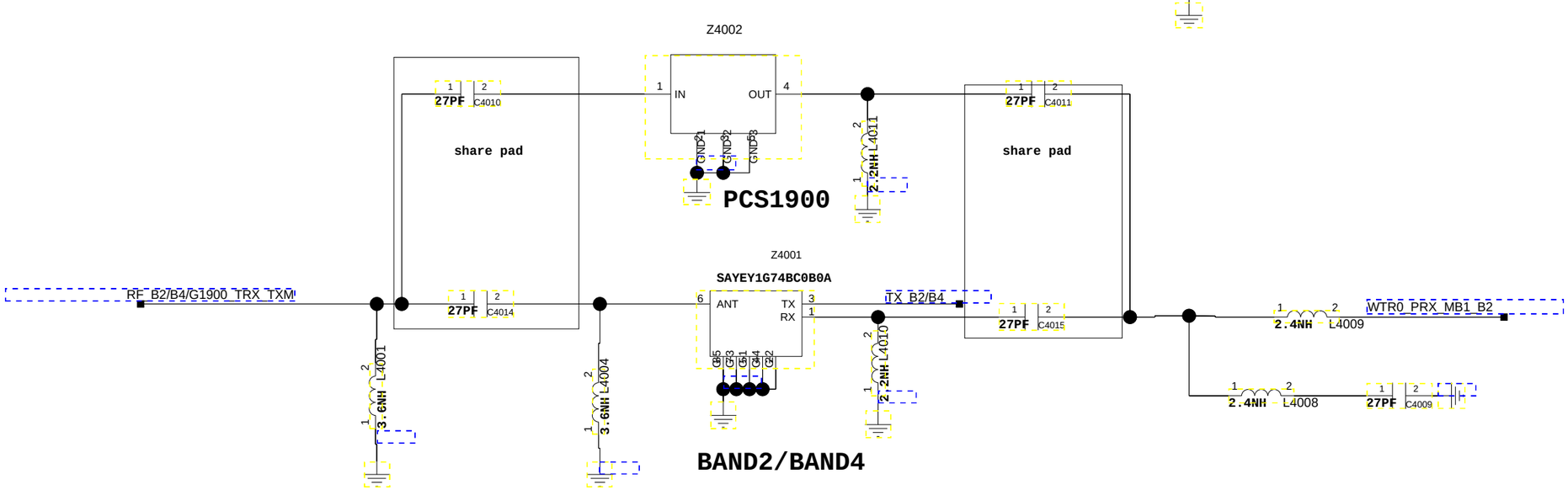

Z3802
SAYEY1G73BA0F0A
RF_B2/B3_TRX_TXM
33PF
C3801
L3801
2.7NH
L3802
2.7NH
ANT
TX
RX
G5
G3
G1
G4
G2
L3803
2.7NH
TX_B3/B2
RX_B3/B2
BAND2/BAND3

39_TRX B1TRX


RF_B1_TRX_TXM
2.7PF
C3909
L3904
NF
L3911
2.2NH
Z3901
SAYEY1G95GA0F0A
ANT
TX
RX
BAND1
L3912
2.2NH
27PF
C3913
L3906
2.7NH
C3906
27PF
L3905
2.7NH
WTR0_PRX_MB3_B1
TX_B1

40_TRX_B2


SHARE PAD
27PF C4006
SHARE PAD
27PF C4007
RX_B3/B2
27PF C4012
C4008
33PF
PRX_B34_B39_G1800
U4001
RF1
RF2
RF3
GND
VC1
VDD
GRFC_6
VREG_L18_2P7
100PF C4006
100PF C4003
27PF C4001
2.4NH L4005
WTR0_PRX_MB2_B3/B2/B34/B39/GSM_HB
L4003
2.4NH
C4002
27PF

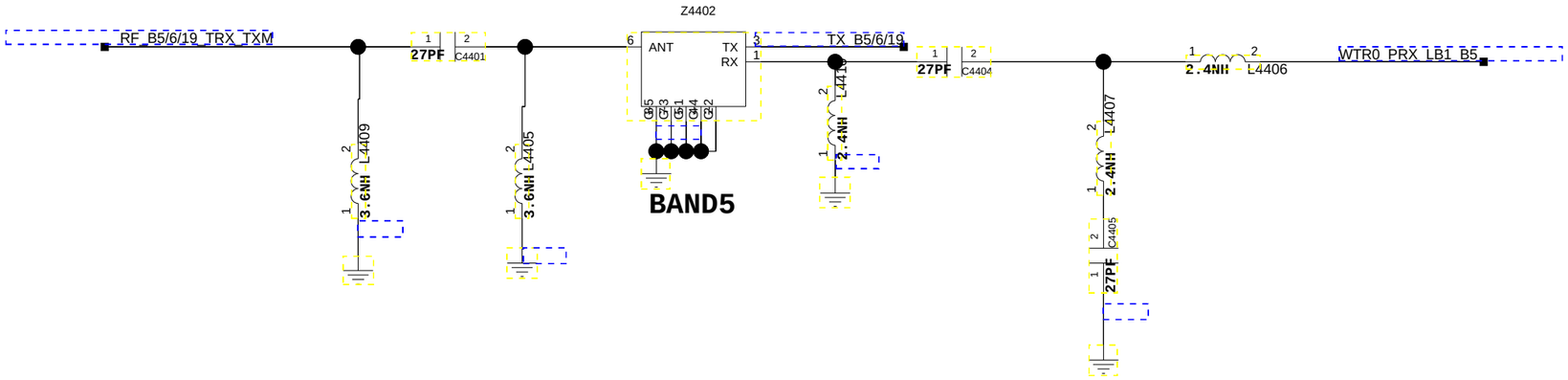

Z4002
27PF C4010
share pad
IN
OUT
GND1
GND2
GND3
2.2NH L4011
PCS1900
27PF C4011
share pad
Z4001
SAYEY1G74BC0B0A
RF_B2/B4/G1900_TRX_TXM
27PF C4014
ANT
TX
RX
GB5
GB3
GB1
GB4
GB2
TX_B2/B4
3.6NH L4001
3.6NH L4004
2.2NH L4010
27PF C4015
2.4NH L4009
WTR0_PRX_MB1_B2
2.4NH L4008
27PF C4009
BAND2/BAND4

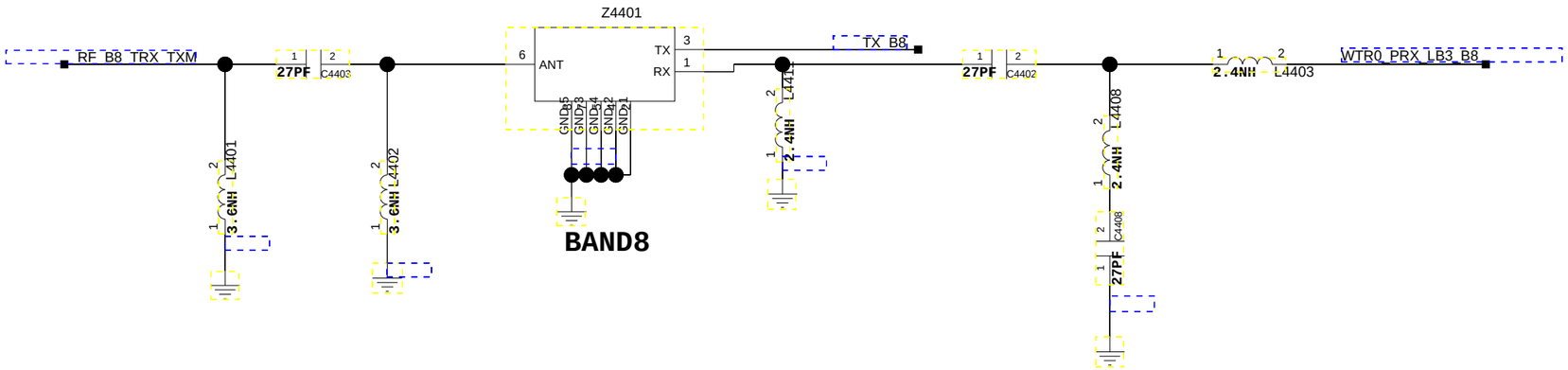
41_Reserved

42_Reserved

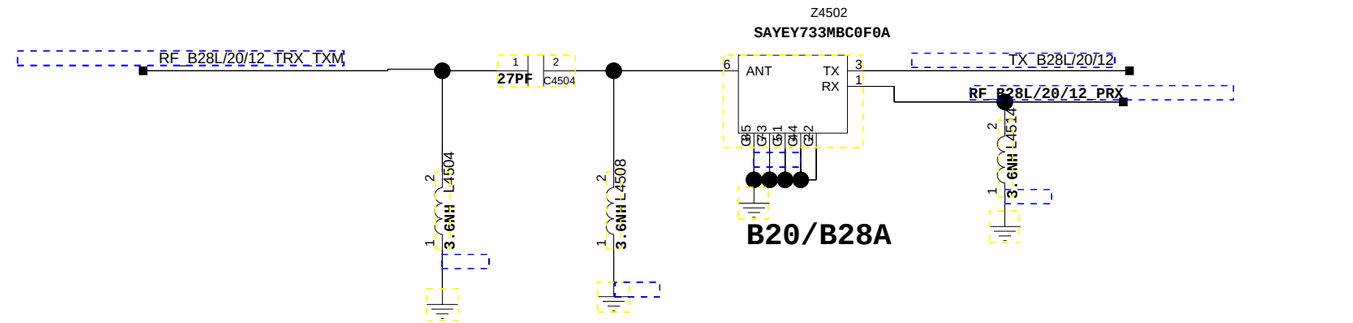
43_Reserved

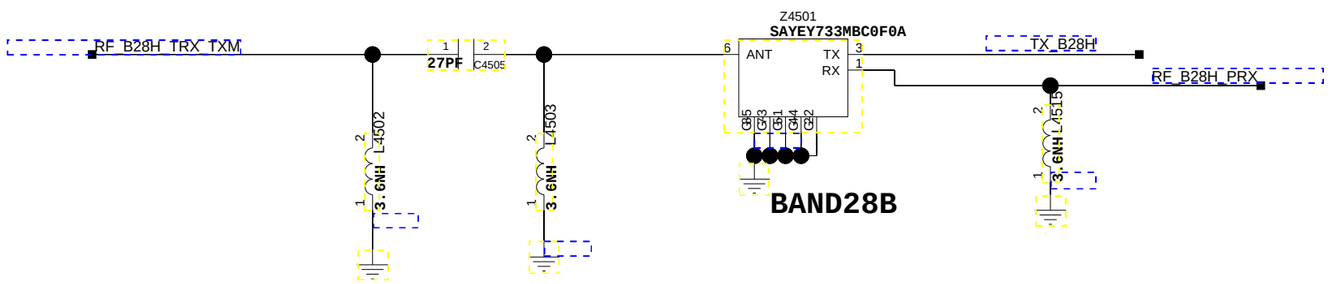
44_TRX_B5/8

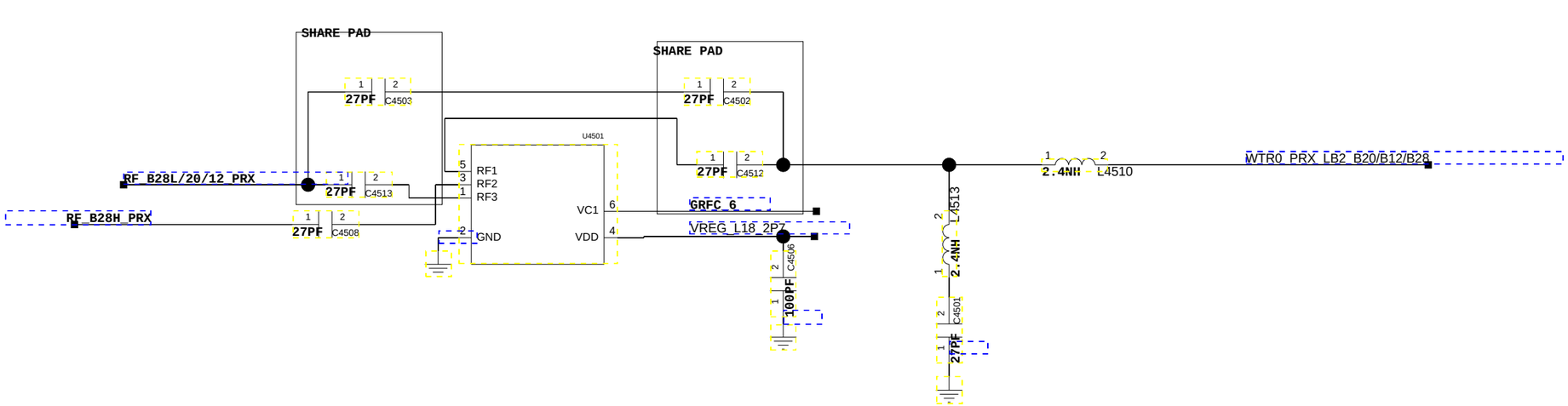

Z4402
RF_B5/6/19_TRX_TXM
27PF
C4401
ANT
TX
RX
TX_B5/6/19
27PF
C4404
WTR0_PRX_LB1_B5
2.4NH
L4406
L4409
3.6NH
L4405
3.6NH
C5
C3
C1
C4
C2
L4410
2.4NH
L4407
2.4NH
C4405
27PF
BAND5


Z4401
RF_B8_TRX_TXM
27PF
C4403
ANT
TX
RX
TX_B8
27PF
C4402
WTR0_PRX_LB3_B8
2.4NH
L4403
L4401
3.6NH
L4402
3.6NH
GND5
GND3
GND4
GND2
GND1
L4411
2.4NH
L4408
2.4NH
C4408
27PF
BAND8

45 TRX B20/28

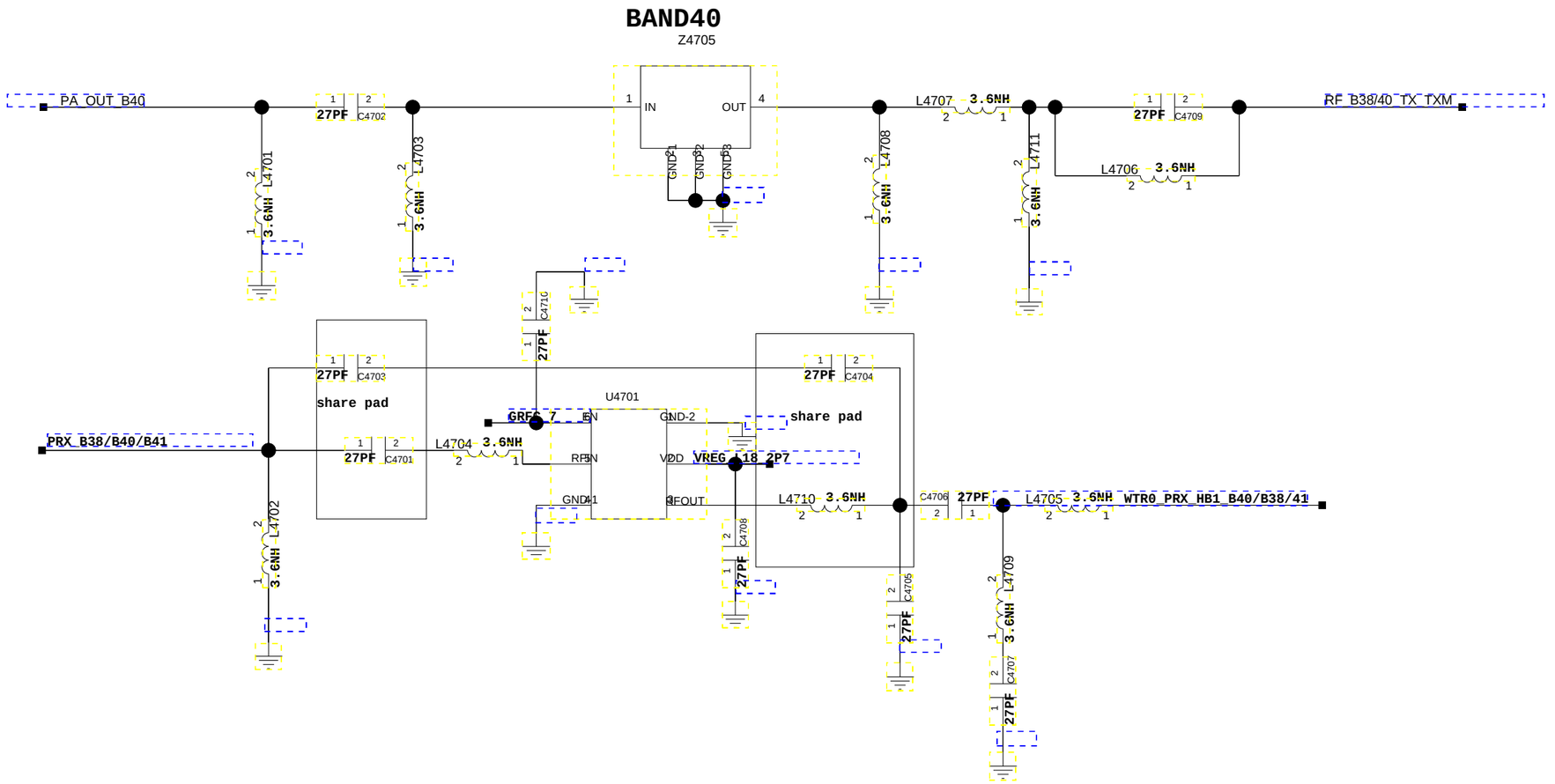

RF_B28L/20/12_TRX_TXM
1
2
27PF
C4504
L4504
3.6NH
L4508
3.6NH
Z4502
SAYEY733MBC0F0A
6
ANT
TX
RX
3
1
C5
C3
C1
C4
C2
TX_B28L/20/12
RF_B28L/20/12_PRX
L4512
3.6NH
B20/B28A


RF_B28H_TRX_TXM
1
2
27PF
C4505
L4502
3.6NH
L4503
3.6NH
Z4501
SAYEY733MBC0F0A
6
ANT
TX
RX
3
1
C5
C3
C1
C4
C2
TX_B28H
RF_B28H_PRX
L4515
3.6NH
BAND28B

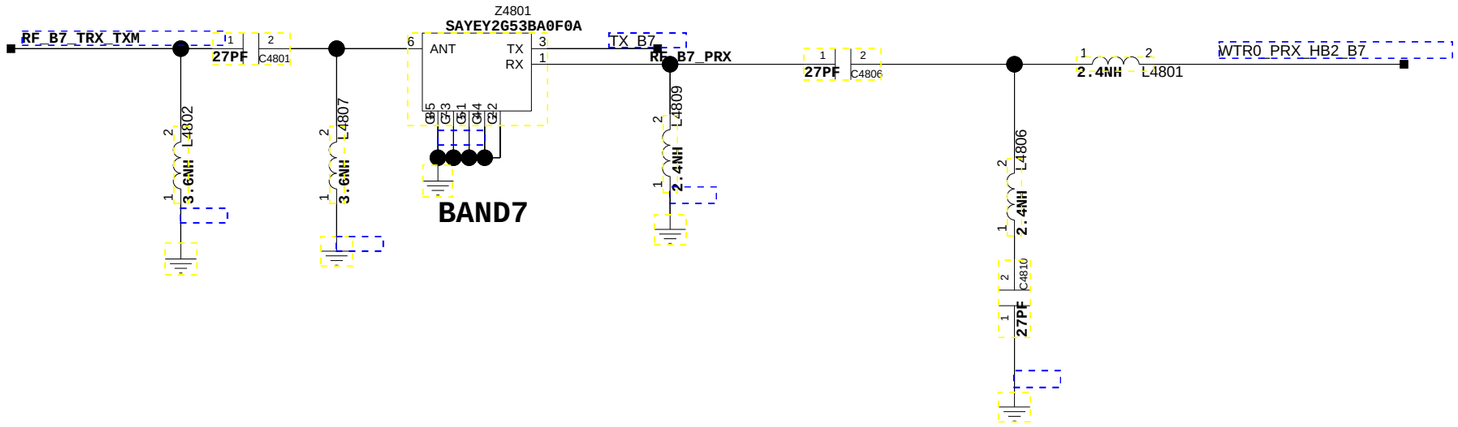

SHARE_PAD
1
2
27PF
C4503
SHARE_PAD
1
2
27PF
C4502
U4501
RF_B28L/20/12_PRX
1
2
27PF
C4513
RF_B28H_PRX
1
2
27PF
C4508
5
RF1
3
RF2
1
RF3
2
GND
VC1
6
VDD
4
GRFC_6
VREG_L18_2P7
1
2
27PF
C4512
2.4NH
L4510
WTR0_PRX_LB2_B20/B12/B28
L4513
2.4NH
2
C4506
100PF
1
2
C4501
27PF

46_TRX_B34/B39

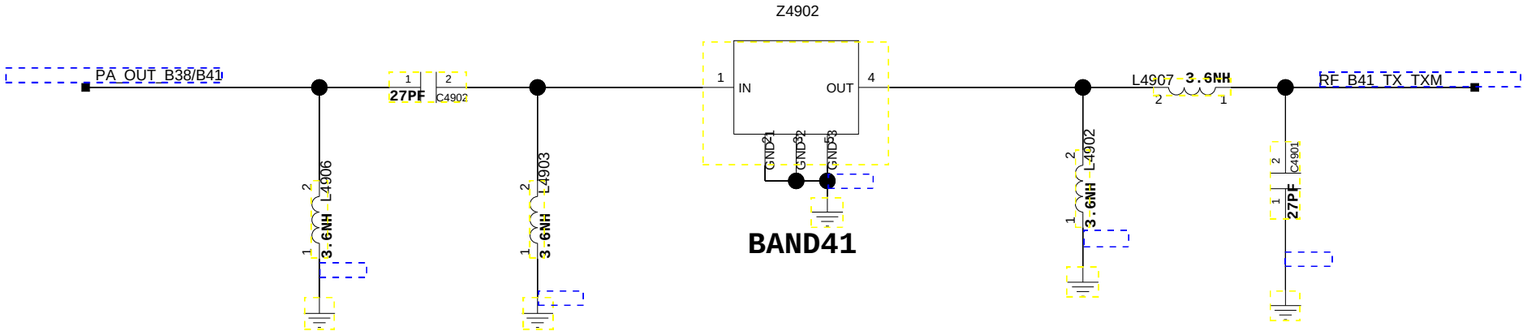
47_TRX_40&PRX_B38/B41

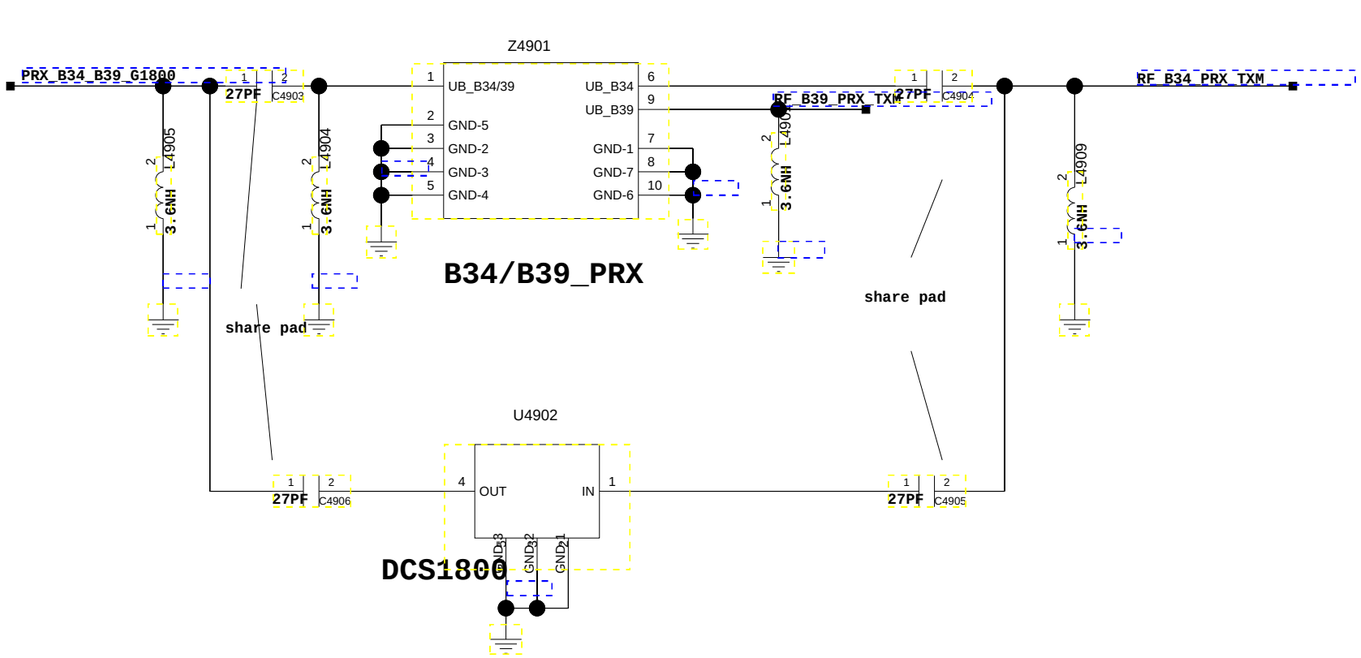


48_TRX_B7

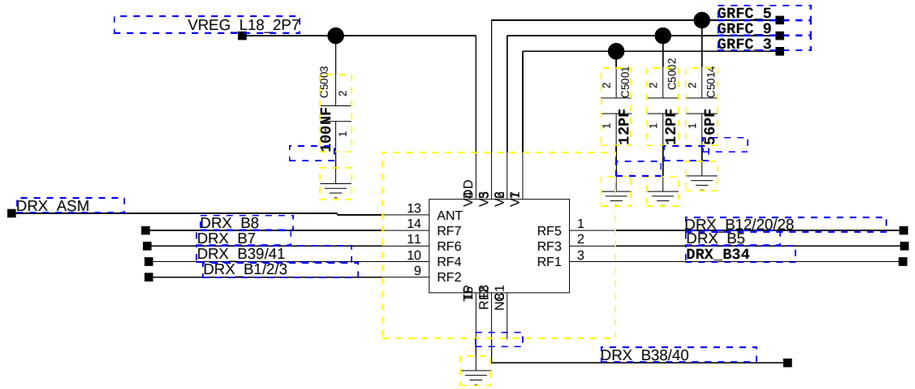

RF_B7_TRX_TXM
1
2
27PF
C4801
L4802
3.6NH
L4807
3.6NH
Z4801
SAYEY2G53BA0F0A
6
ANT
TX
RX
3
1
C5
C3
C1
C4
C2
BAND7
TX_B7
RF_B7_PRX
L4809
2.4NH
1
2
27PF
C4806
L4806
2.4NH
C4810
27PF
1
2
2.4NH
L4801
WTR0_PRX_HB2_B7

49_TRX_B38/B41&PRX_B34/B39

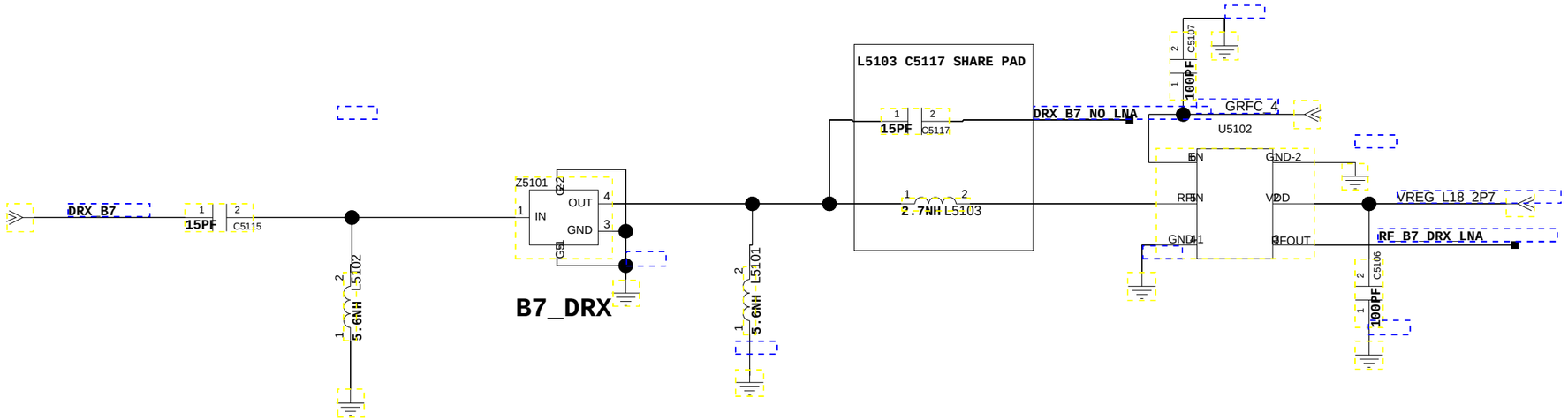


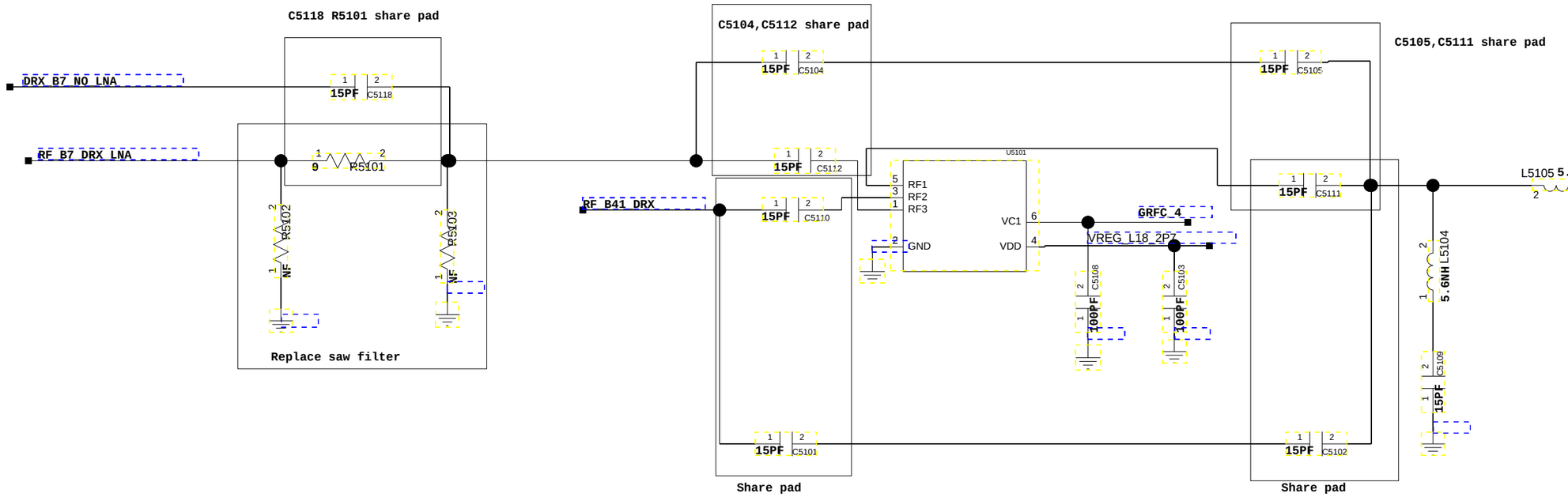


50_Diversity_ASM

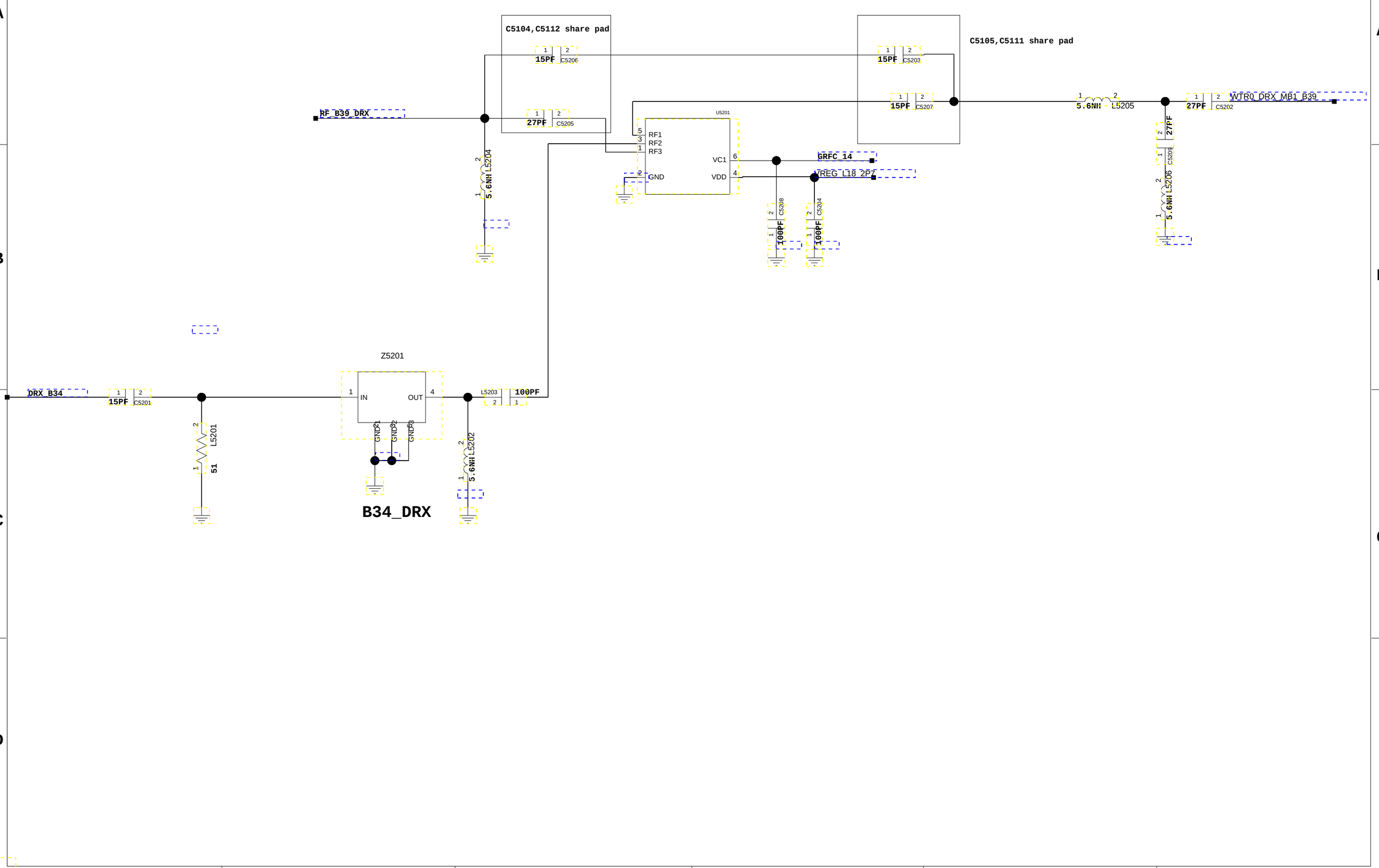


51_DRX_B7

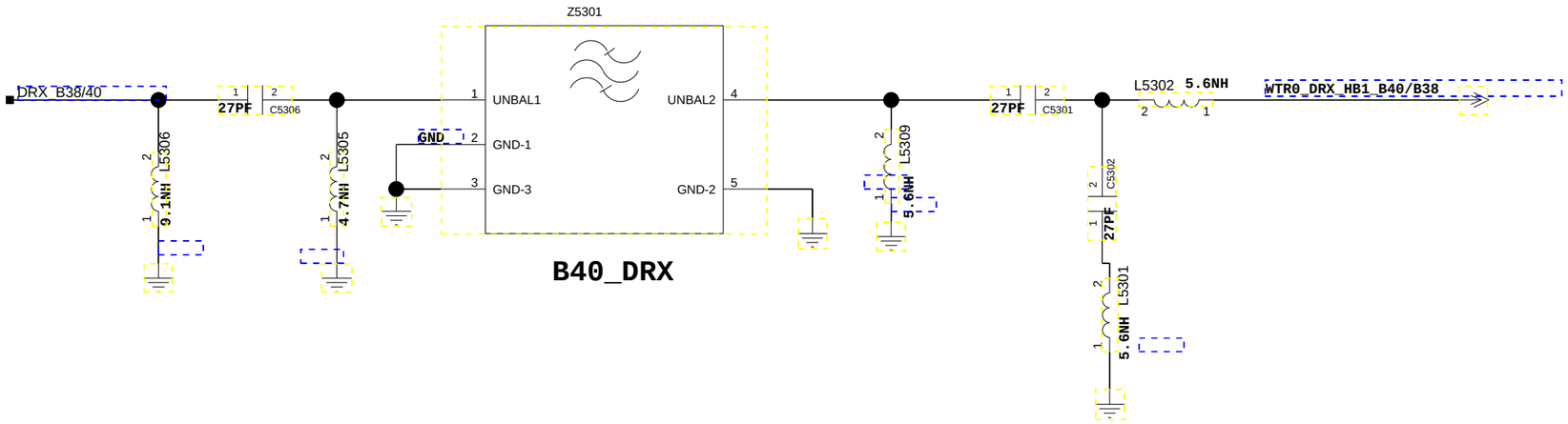

DRX_B7
15PF C5115
5.6NH L5102
Z5101
IN
OUT
GND
B7_DRX
5.6NH L5101
L5103 C5117 SHARE PAD
15PF C5117
2.7NH L5103
DRX_B7_NO_LNA
100PF C5107
GRFC_4
U5102
EN
GND-2
RFIN
VDD
GND-1
RFOUT
VREG_L18_2P7
RF_B7_DRX_LNA
100PF C5106

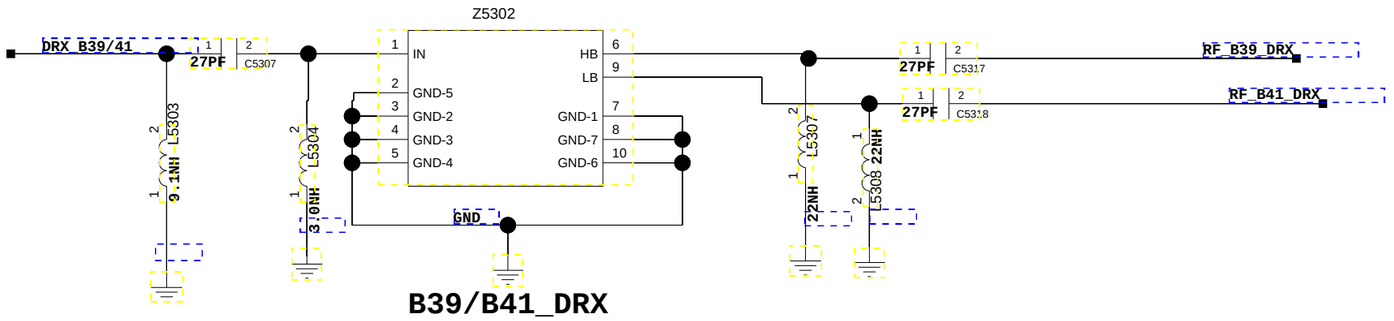

C5118 R5101 share pad
DRX_B7_NO_LNA
15PF C5118
RF_B7_DRX_LNA
0 R5101
R5102
NF
R5103
NF
Replace saw filter
C5104,C5112 share pad
15PF C5104
15PF C5112
RF_B41_DRX
15PF C5110
15PF C5101
Share pad
U5101
RF1
RF2
RF3
GND
VC1
VDD
GRFC_4
VREG_L18_2P7
100PF C5108
100PF C5103
C5105,C5111 share pad
15PF C5105
15PF C5111
15PF C5102
Share pad
L5105 5.6NH
WTR0_DRX_HB2_B7/B41
5.6NH L5104
C5109
15PF

52_DRX_B34/39

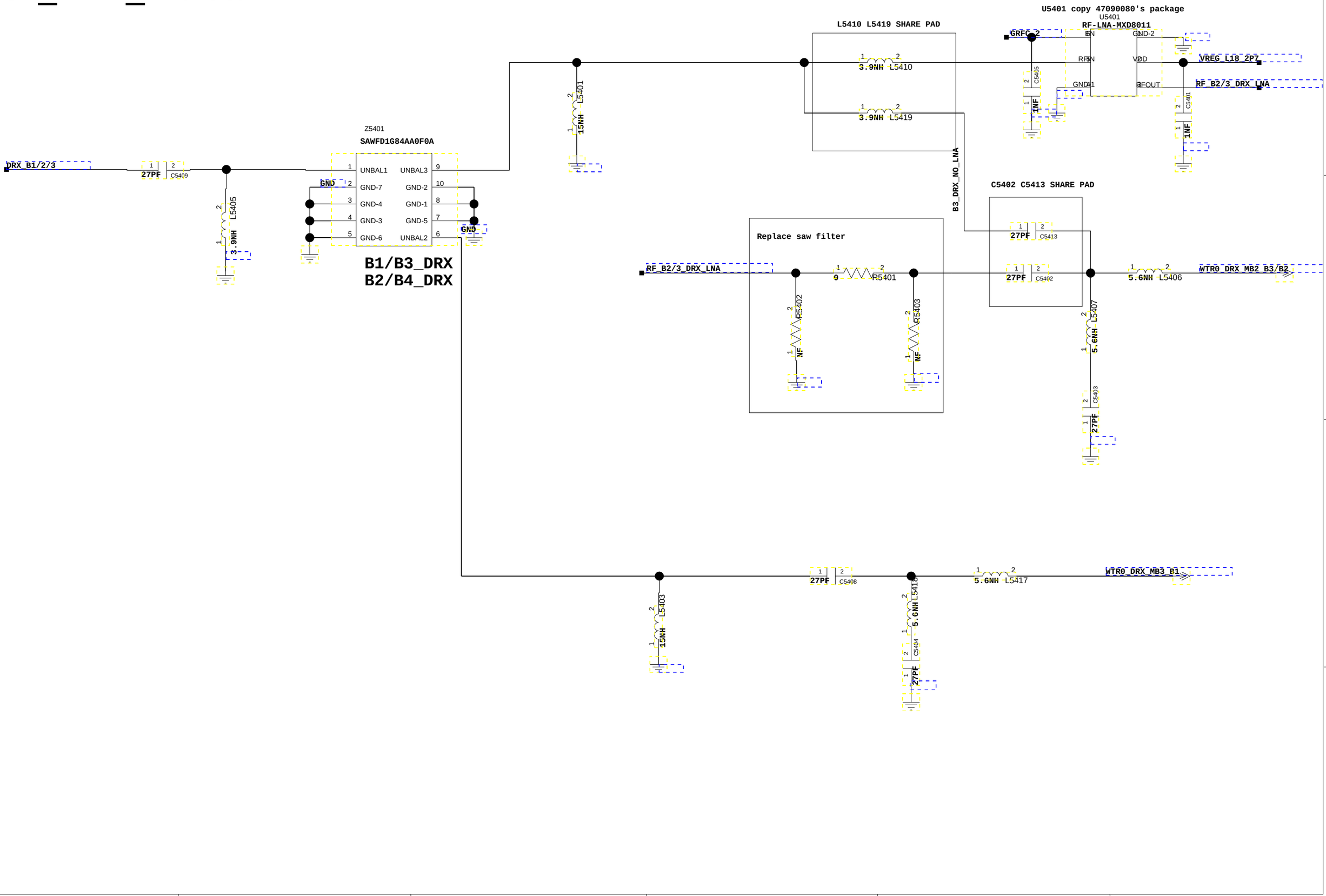

C5104,C5112 share pad
15PF C5206
27PF C5205
RF_B39_DRX
5.6NH L5204
U5201
RF1
RF2
RF3
GND
VC1
VDD
GRFC_14
VREG_L18_2P7
100PF C5208
100PF C5204
C5105,C5111 share pad
15PF C5203
15PF C5207
5.6NH L5205
27PF C5202
WTR0_DRX_MB1_B39
27PF C5209
5.6NH L5206
Z5201
DRX_B34
15PF C5201
L5201
51
IN
OUT
GND1
GND2
GND3
L5203
100PF
5.6NH L5202
B34_DRX

53_DRX_B38/39/40/41

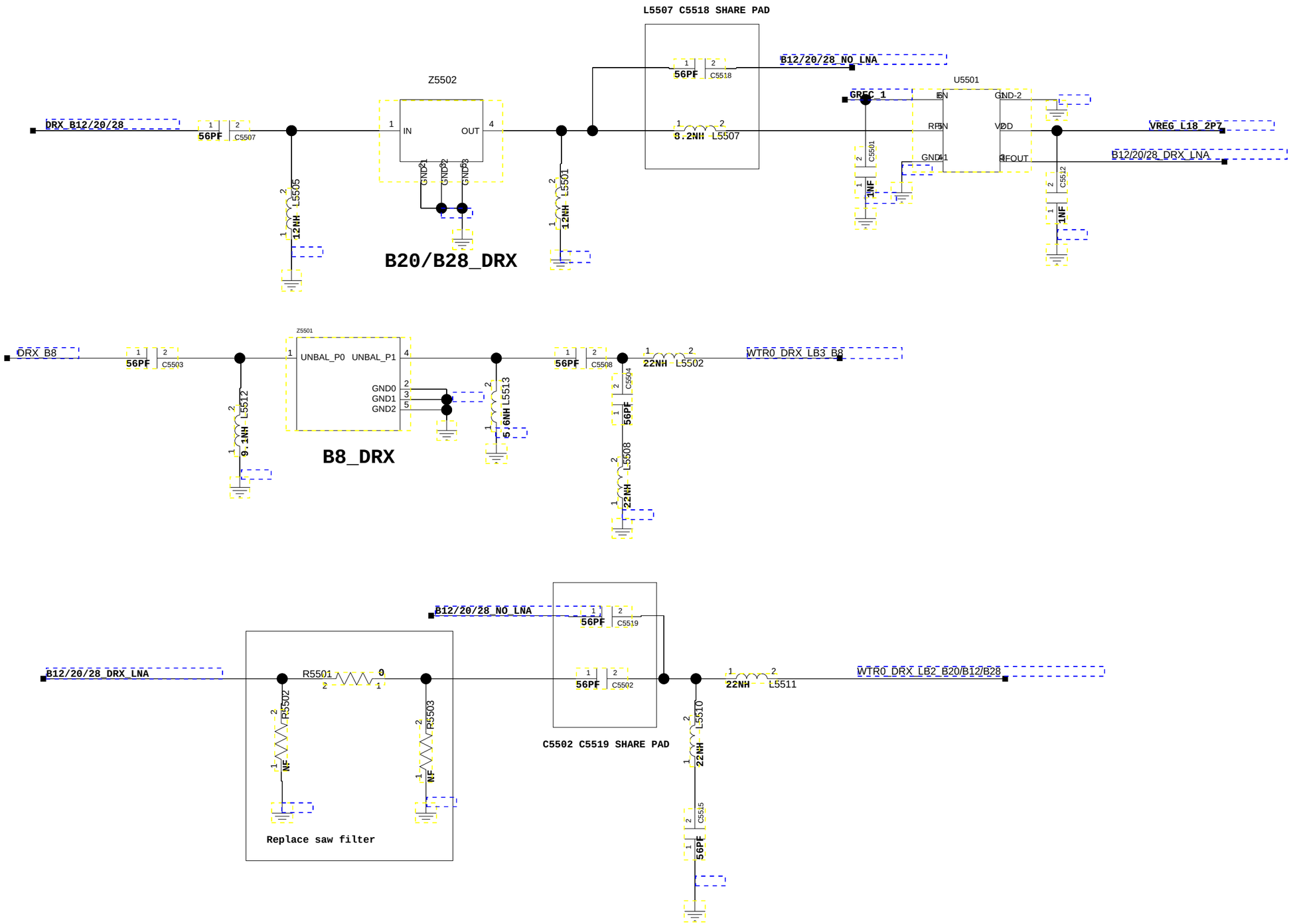




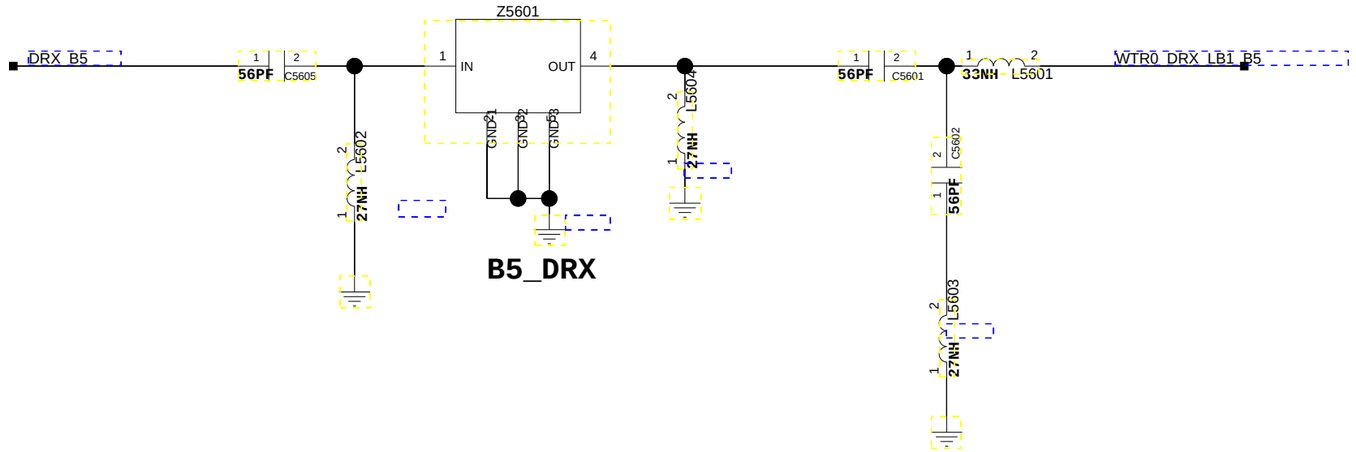
54_DRX_B1/2/3/4


DRX_B1/2/3
27PF C5409
L5405 3.9NH
Z5401
SAWFD1G84AA0F0A
UNBAL1 UNBAL3
GND-7 GND-2
GND-4 GND-1
GND-3 GND-5
GND-6 UNBAL2
GND
B1/B3_DRX
B2/B4_DRX
L5401 15NH
L5410 L5419 SHARE PAD
3.9NH L5410
3.9NH L5419
B3_DRX_NO_LNA
U5401 copy 47090080's package
U5401
RF-LNA-MXD8011
GRFC_2
EN
GND-2
RFIN
VDD
VREG_L18_2P7
GND-1
RFOUT
RF_B2/3_DRX_LNA
C5405 1NF
C5401 1NF
C5402 C5413 SHARE PAD
Replace saw filter
RF_B2/3_DRX_LNA
9 R5401
R5402 NF
R5403 NF
27PF C5413
27PF C5402
5.6NH L5406
WTR0_DRX_MB2_B3/B2
L5407 5.6NH
C5403 27PF
L5403 15NH
27PF C5408
L5418 5.6NH
C5404 27PF
5.6NH L5417
WTR0_DRX_MB3_B1

55_DRX_B28/20/12/8

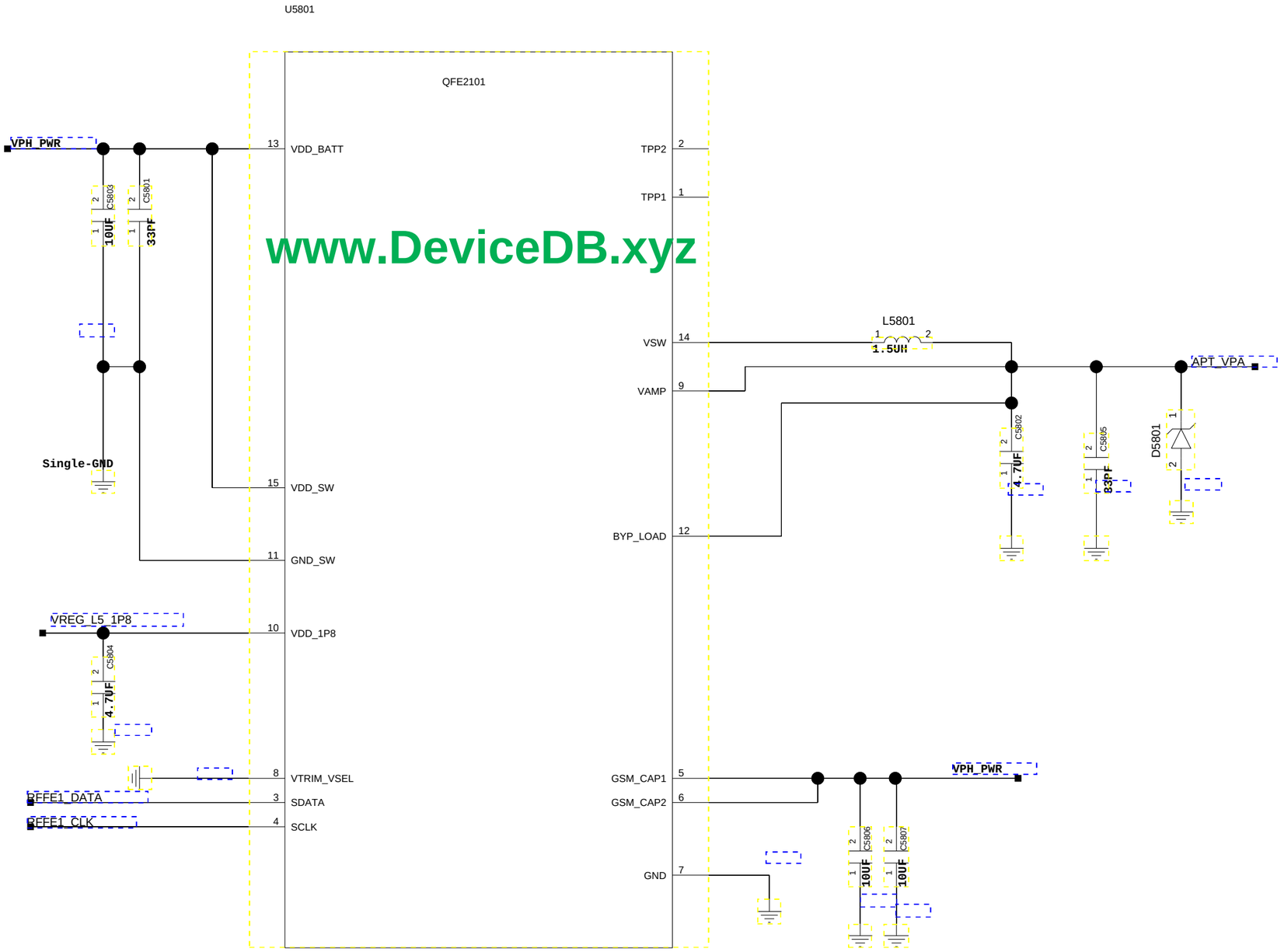


56_DRX_B5

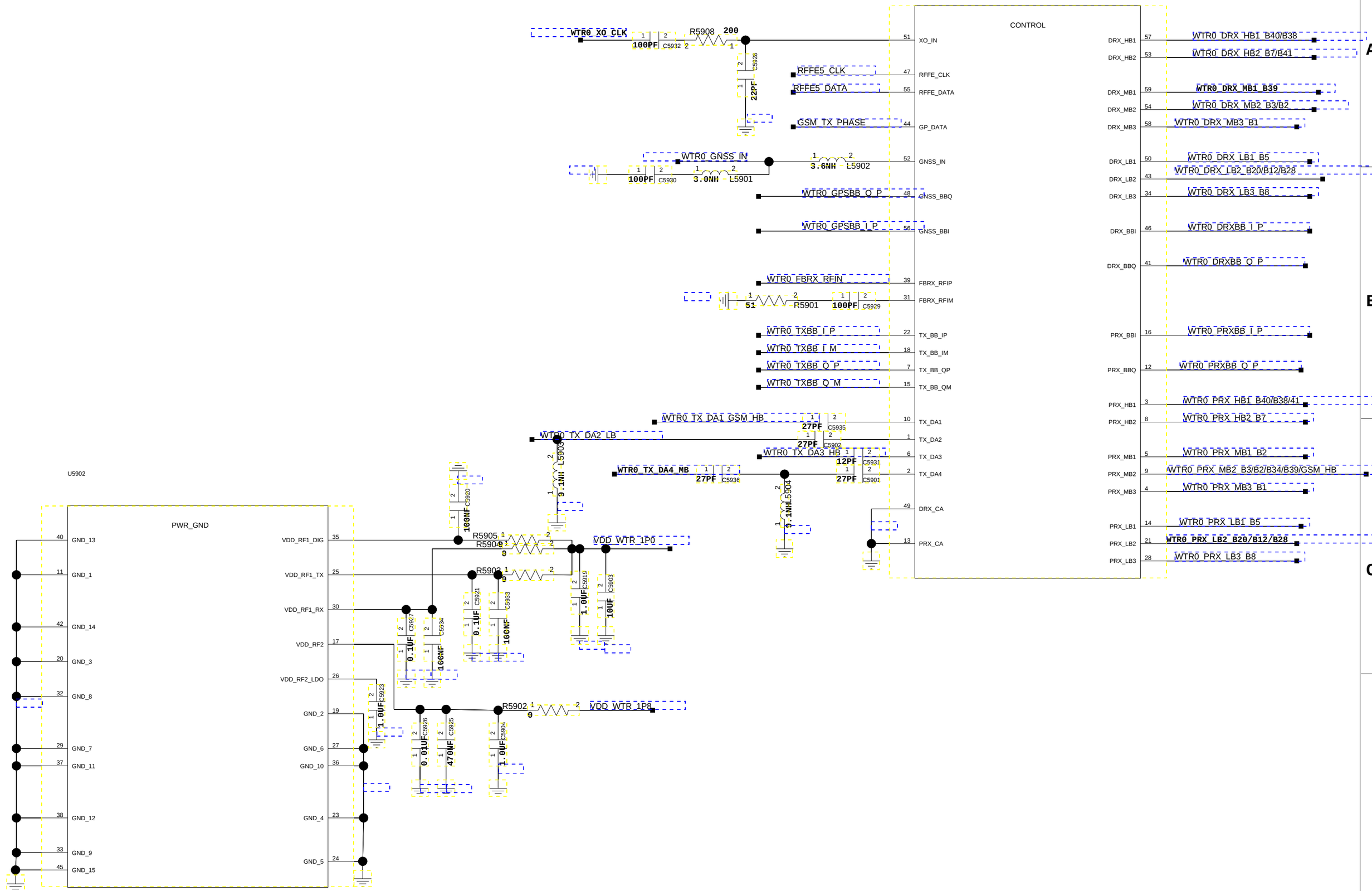

Z5601
DRX_B5
1
56PF
2
C5605
IN
OUT
GND1
GND2
GND3
L5602
27NH
L5604
C5601
L5601
33NH
WTR0_DRX_LB1_B5
C5602
L5603
B5_DRX

57_Reserved

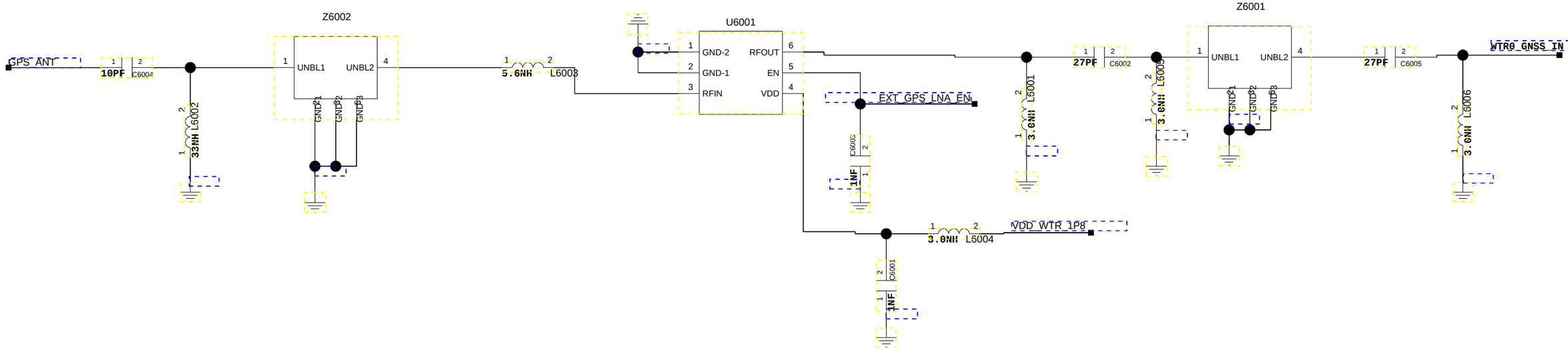
58.ET APT



59.WTR2965


CONTROL
WTR0_XO_CLK
100PF C5932
R5908 200
C5928 22PF
RFFE5_CLK
RFFE5_DATA
GSM_TX_PHASE
WTR0_GNSS_IN
3.6NH L5902
100PF C5930
3.0NH L5901
WTR0_GPSBB_Q_P
WTR0_GPSBB_I_P
WTR0_FBRX_RFIN
51 R5901
100PF C5929
WTR0_TXBB_I_P
WTR0_TXBB_I_M
WTR0_TXBB_Q_P
WTR0_TXBB_Q_M
WTR0_TX_DA1_GSM_HB
27PF C5935
WTR0_TX_DA2_LB
27PF C5902
WTR0_TX_DA3_HB
12PF C5931
WTR0_TX_DA4_MB
27PF C5936
27PF C5901
C5903 9.1NH
C5904 9.1NH
XO_IN
RFFE_CLK
RFFE_DATA
GP_DATA
GNSS_IN
GNSS_BBQ
GNSS_BBI
FBRX_RFIP
FBRX_RFIM
TX_BB_IP
TX_BB_IM
TX_BB_QP
TX_BB_QM
TX_DA1
TX_DA2
TX_DA3
TX_DA4
DRX_CA
PRX_CA
DRX_HB1
DRX_HB2
DRX_MB1
DRX_MB2
DRX_MB3
DRX_LB1
DRX_LB2
DRX_LB3
DRX_BBI
DRX_BBQ
PRX_BBI
PRX_BBQ
PRX_HB1
PRX_HB2
PRX_MB1
PRX_MB2
PRX_MB3
PRX_LB1
PRX_LB2
PRX_LB3
WTR0_DRX_HB1_B40/B38
WTR0_DRX_HB2_B7/B41
WTR0_DRX_MB1_B39
WTR0_DRX_MB2_B3/B2
WTR0_DRX_MB3_B1
WTR0_DRX_LB1_B5
WTR0_DRX_LB2_B20/B12/B28
WTR0_DRX_LB3_B8
WTR0_DRXBB_I_P
WTR0_DRXBB_Q_P
WTR0_PRXBB_I_P
WTR0_PRXBB_Q_P
WTR0_PRX_HB1_B40/B38/41
WTR0_PRX_HB2_B7
WTR0_PRX_MB1_B2
WTR0_PRX_MB2_B3/B2/B34/B39/GSM_HB
WTR0_PRX_MB3_B1
WTR0_PRX_LB1_B5
WTR0_PRX_LB2_B20/B12/B28
WTR0_PRX_LB3_B8
U5902
PWR_GND
GND_13
GND_1
GND_14
GND_3
GND_8
GND_7
GND_11
GND_12
GND_9
GND_15
VDD_RF1_DIG
VDD_RF1_TX
VDD_RF1_RX
VDD_RF2
VDD_RF2_LDO
GND_2
GND_6
GND_10
GND_4
GND_5
C5920 100NF
R5905 0
R5904 0
R5903 0
R5902 0
VDD_WTR_1P0
VDD_WTR_1P8
C5927 0.1UF
C5934 160NF
C5921 0.1UF
C5933 100NF
C5919 1.0UF
C5903 10UF
C5923 1.0UF
C5926 0.01UF
C5925 470NF
C5904 1.0UF

60_GPS


GPS_ANT
10PF C6004
33NH L6002
Z6002
UNBL1
UNBL2
GND1
GND2
GND3
5.6NH L6003
U6001
GND-2
GND-1
RFIN
RFOUT
EN
VDD
EXT_GPS_LNA_EN
1NF C6003
3.0NH L6001
27PF C6002
Z6001
3.6NH L6005
27PF C6005
WTR0_GNSS_IN
3.6NH L6006
3.0NH L6004
VDD_WTR_1P8
1NF C6001

61_WCN3615 BB

VDD_WL_TXBB_1P35/VDD_WL_PA_1P35/VDD_WL_UPC_1P35

VREG_L19_1P35
C6105 0.01UF
C6122 10UF
pin 2,3,4

VDD_WL_BT_RX_1P35
pin 37
C6114 100PF

LB6101
VDD_WL_LO_1P35
C6113 4.7UF
C6110 0.01UF
pin 12,15

U6102
VDD_WL_BT_FM_DIG_1P35
VREG_BT_FM_1P35
pin 5
1.0UF C6109

U6103
VDD_FM_1P35
VREG_FM_1P35
pin 43,44,40,39
C6101 22NF

VDD_DIG_1P35
C6112 0.01UF
pin 23

C6103 15PF

WCN_XO_CLK
220PF C6111
C6106 100PF

U6101

21	XO_IN	
38	FM_HS_RX	FM_RX
30	FM_SSBI	WCSS_FM_SSBI
35	FM_DATA	WCSS_FM_SDI
25	BT_CTL	WCSS_BT_CTRL
36	BT_SSBI	WCSS_BT_SSBI
47	BT_DATA	WCSS_BT_DAT_STB
6	GND1	
42	WL_BB_IP	WLAN_BB_I_P
46	WL_BB_IN	WLAN_BB_I_M
45	WL_BB_QN	WLAN_BB_Q_M
41	WL_BB_QP	WLAN_BB_Q_P
32	NC	
18	WL_BT_RFIO	WL_BT_RFIO_EXT (18PF C6104)
10	WL_CMD_SET	WCSS_WLAN_SET
1	WL_CMD_CLK	WCSS_WLAN_CLK
14	WL_CMD_DATA2	WCSS_WLAN_DATA_2
19	WL_CMD_DATA1	WCSS_WLAN_DATA_1
20	WL_CMD_DATA0	WCSS_WLAN_DATA_0

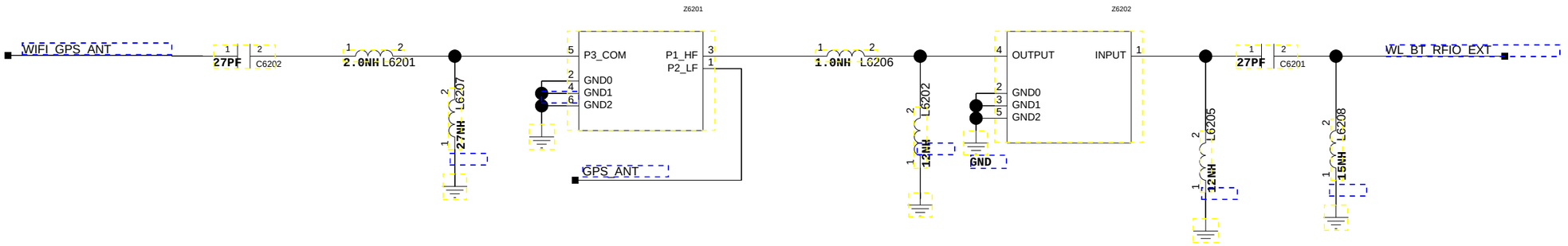
VDD_WL_LO_1P35
VREG_L9_3P3
9
R6101
C6102 100PF
C6107 10UF
C6108 27PF
pin 17
pin 9

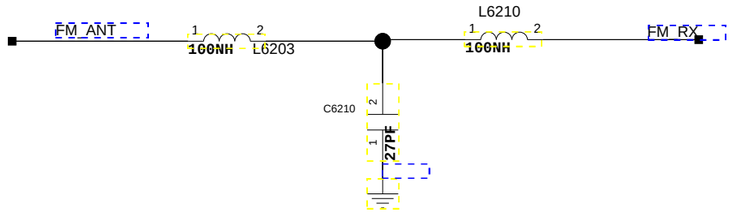
U5101

28	VDD_IO_1P8	VREG_L5_1P8
23	VDD_DIG_1P3	VREG_L19_1P35
43	VDD_FM_RXFE_1P3	VREG_FM_1P35
44	VDD_FM_RXBB_1P3	
40	VDD_FM_PLL_1P3	
39	VDD_FM_VCO_1P3	
37	VDD_WL_BT_RX_1P3	VREG_L19_1P35
5	VDD_WL_BT_DIG_1P3	VREG_BT_FM_1P35
2	VDD_WL_TX_BB_1P3	VREG_L19_1P35
4	VDD_WL_2GPA_1P3	VREG_L19_1P35
3	VDD_WL_UPC_1P3	VREG_L19_1P35
15	VDD_WL_PLL_1P3	
12	VDD_WL_LO_1P3	
17	VDD_WL_2GPA_3P3	
9	VDD_BT_DA_3P3	
24	GND8	
33	GND13	
34	GND14	
29	GND11	
16	GND6	
31	GND12	
11	GND4	
7	GND2	
22	GND7	
26	GND9	
27	GND10	
13	GND5	
8	GND3	

C6115 470NF

62_WCN3615 RF



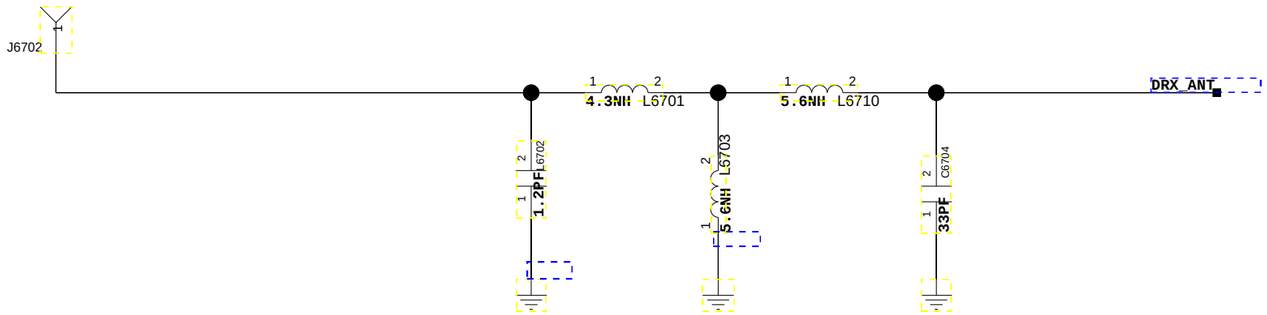


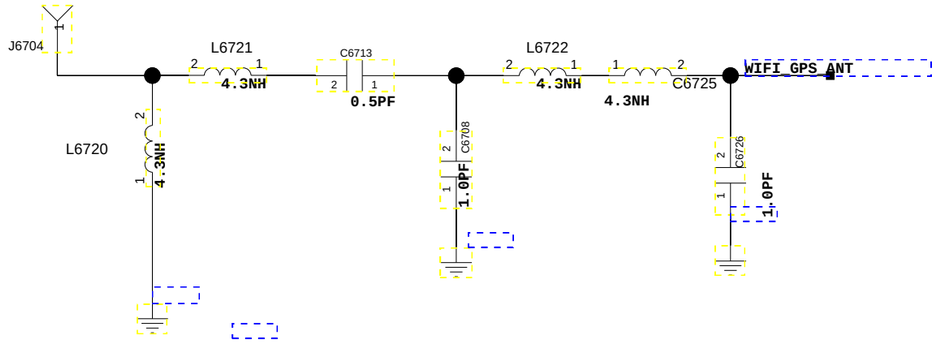
65.Reserved

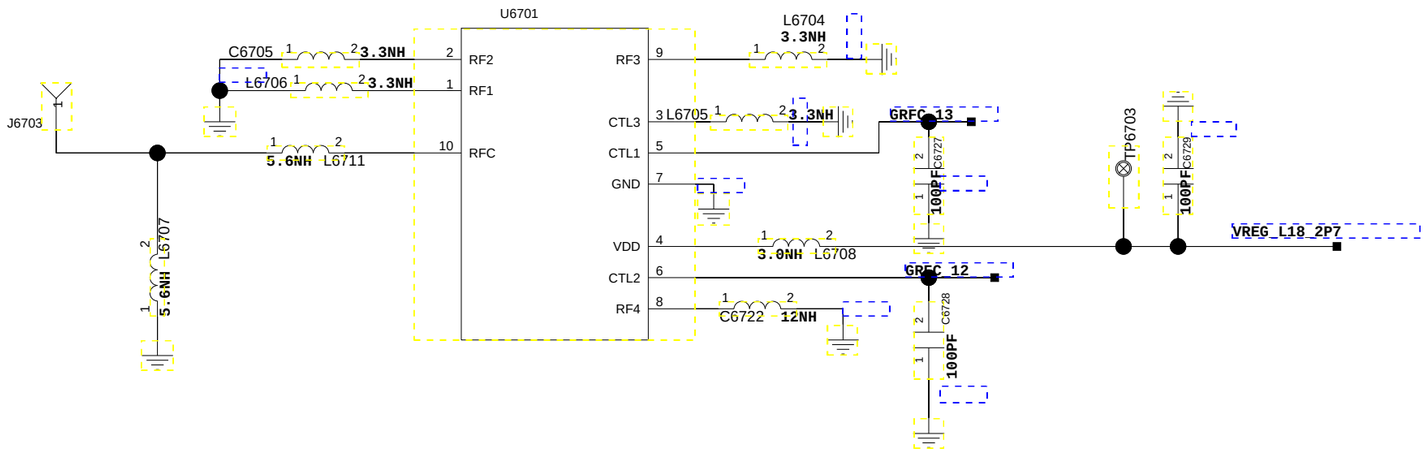
66 ANT TUNER

67.ANTENNA MATCH

DIV Ant







69.Reserved

69.Reserved