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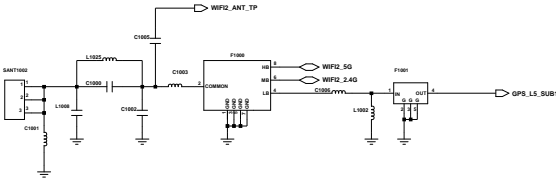
SM-G998B/N_MASTER_REV0.5

2020.10.24

- Sheet01 : RF, ET Modulator
- Sheet02 : mmWave
- Sheet03 : ESIM, UFS, Volume Key
- Sheet04 : BT/WIFI, GPS, SENSOR HUB
- Sheet05 : ModAP(Olympus) & System Clock
- Sheet06 : ModAP(Olympus) Power Decoupling Capacitor
- Sheet07 : Power Management IC(ModAP / Peri) & Charging
- Sheet08 : Audio
- Sheet09 : Camera
- Sheet10 : Interposer
- Sheet11 : Display PMIC
- Sheet12 : Etc.

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RF2 - SUB ANT

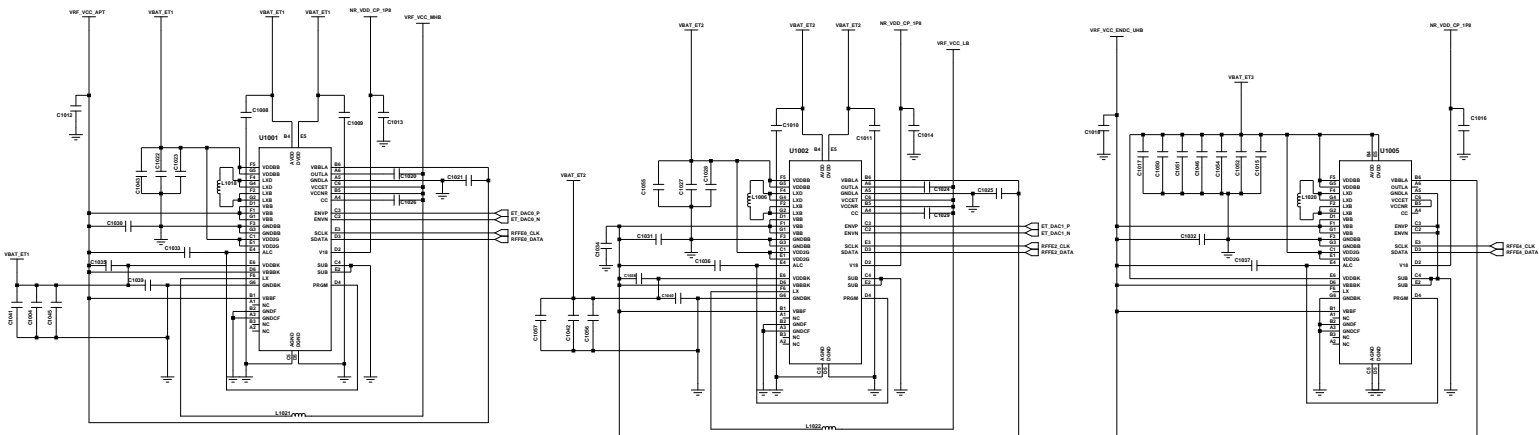
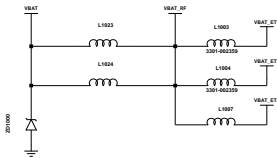
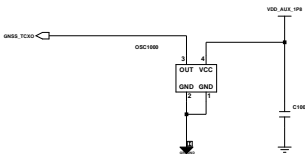


SUB3 ANT (Metal Slit)

SUB4 ANT (Metal Slit)

SUB7 ANT (Deco Slit)

GPS (BCM4775) TCXO

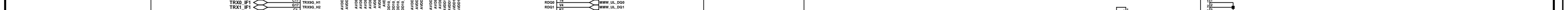


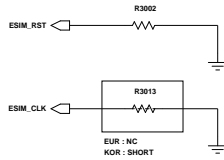
ET#1 2G/3G/LTE/NR MHB(2G,OMH LPAMID)

ET #2 3G/LTE/NR LB(LB LPAMID)

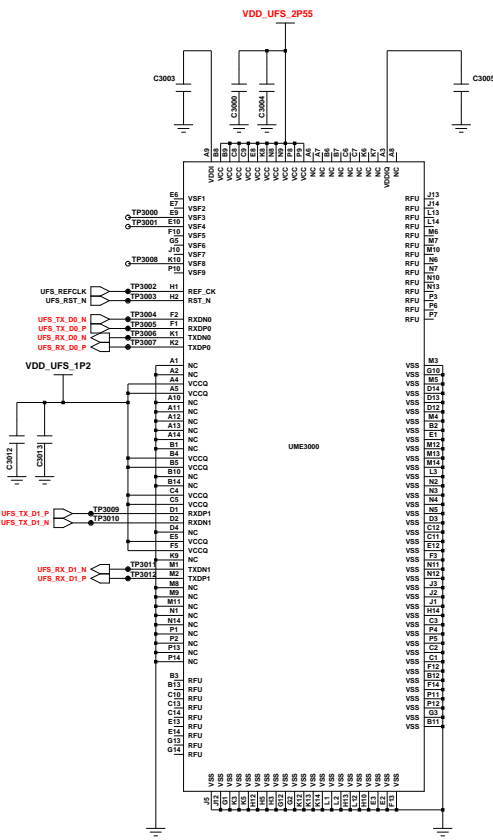
ET#3 NR MHB/UHB(ENDC MOD,UHB MOD)

8





2D BARCODE

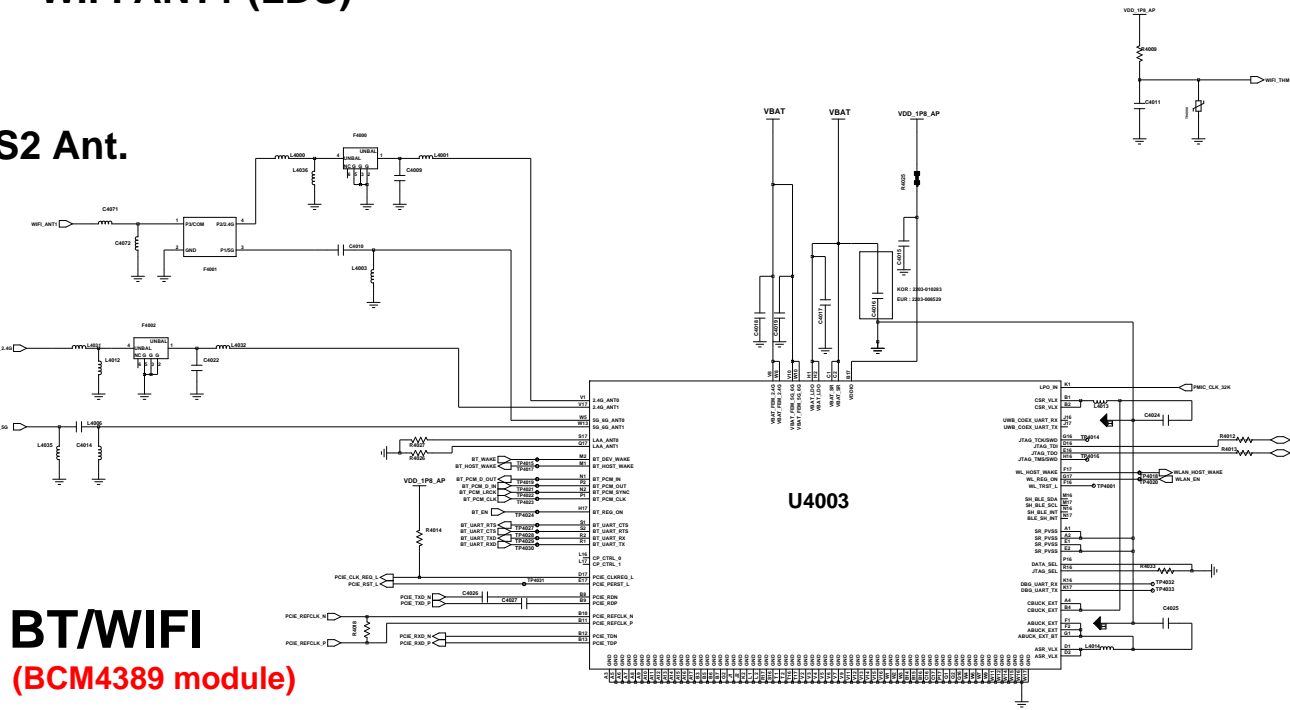


UFS MEMORY

4. CONNECTIVITY / SENSOR

WIFI ANT1 (LDS)

LDS2 Ant.

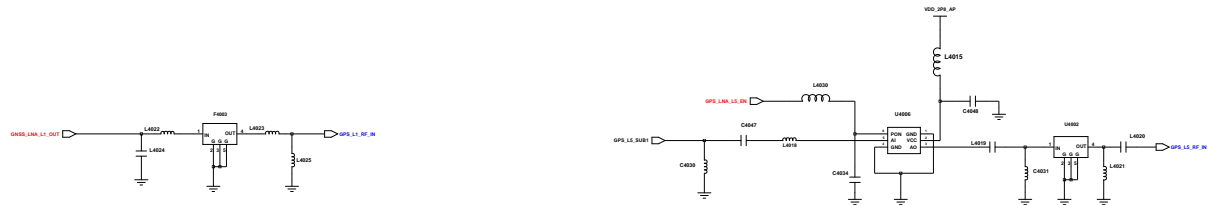


BT/WIFI (BCM4389 module)

GPS + SENSOR HUB(BCM4775)

GPS L1

GPS L5



SENSORS

SENSOR POWER

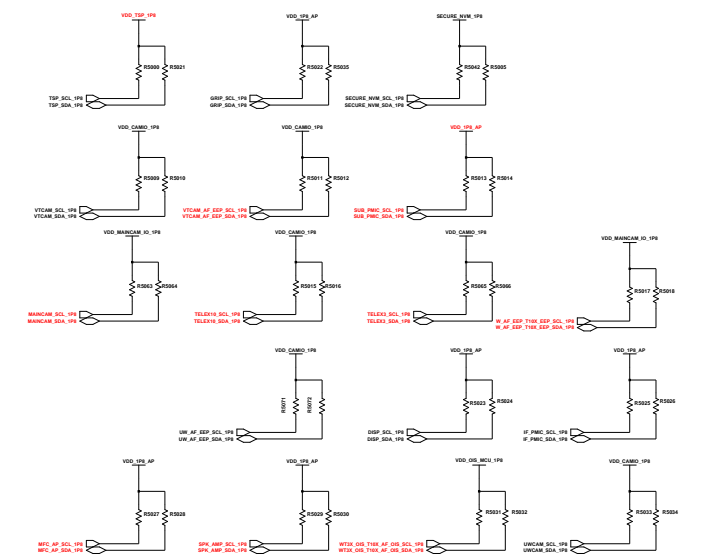
BAROMETER SENSOR

6AXIS SENSOR

MAGNETIC SENSOR

Proximeter/Ambient Light Sensor

NFC + eSIM



The schematic diagram illustrates the test setup. On the left, a power supply section shows a 5VDC input connected to a 100k resistor, which is then connected to a 100nF capacitor. A 100mV probe is connected to the node between the 100k resistor and the 100nF capacitor. On the right, four channels of the detector are shown, labeled INTENSITY_DET_11, INTENSITY_DET_12, INTENSITY_DET_21, and INTENSITY_DET_22. Each channel is connected to a 100k resistor and a 100nF capacitor, which are then connected to ground.

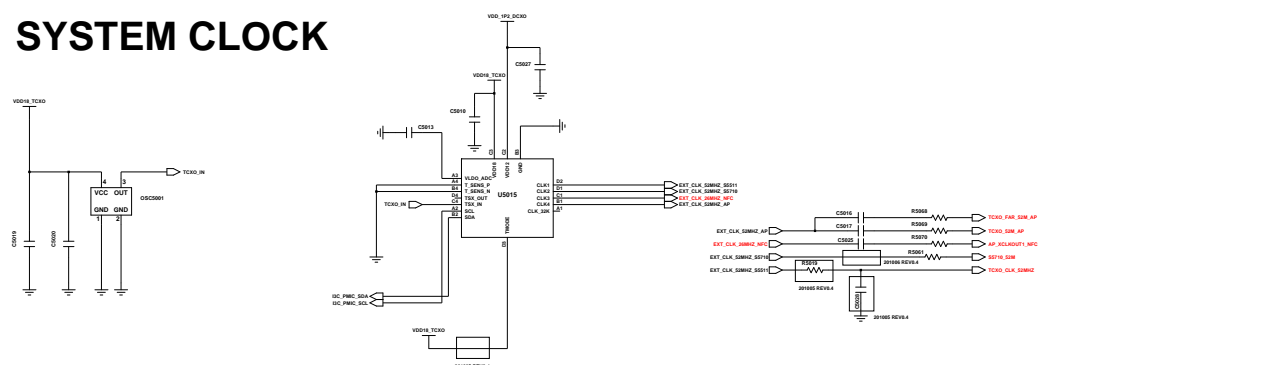


OM[2:0]	1st / 2nd
000	UFS_CH0 / USB
001	USB
010	SD CARD / USB
011	UFS_CH0 / SD CARD

iROM BOOT



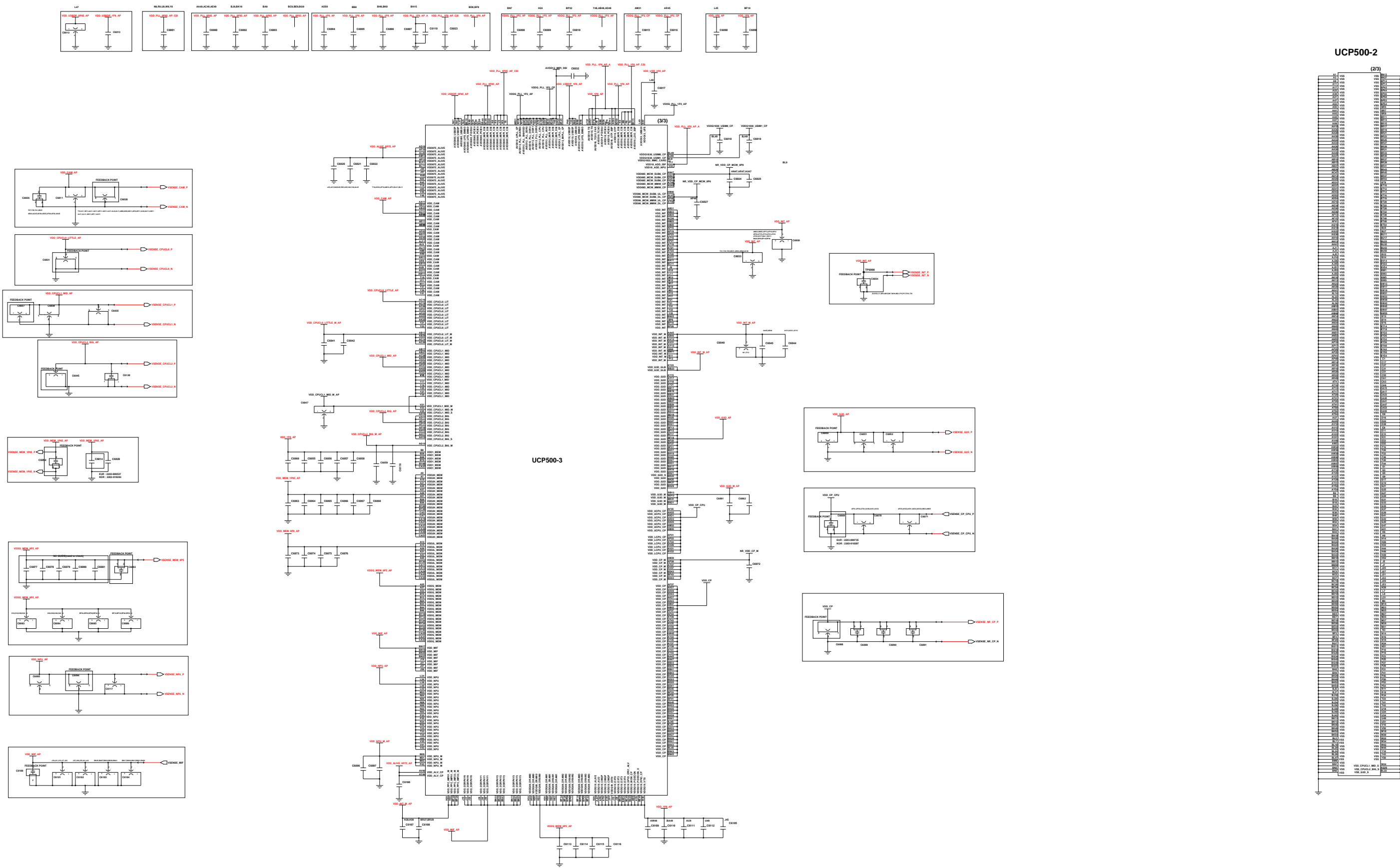
SYSTEM CLOCK



200416 CHANGE TO MMW /MARTIN

6. modAP(OLYMPUS) Power_decoupling capacitor

1. Place de-caps around assigned pins
2. De_caps could be removed(For powers that meet the Remote_cap specification)

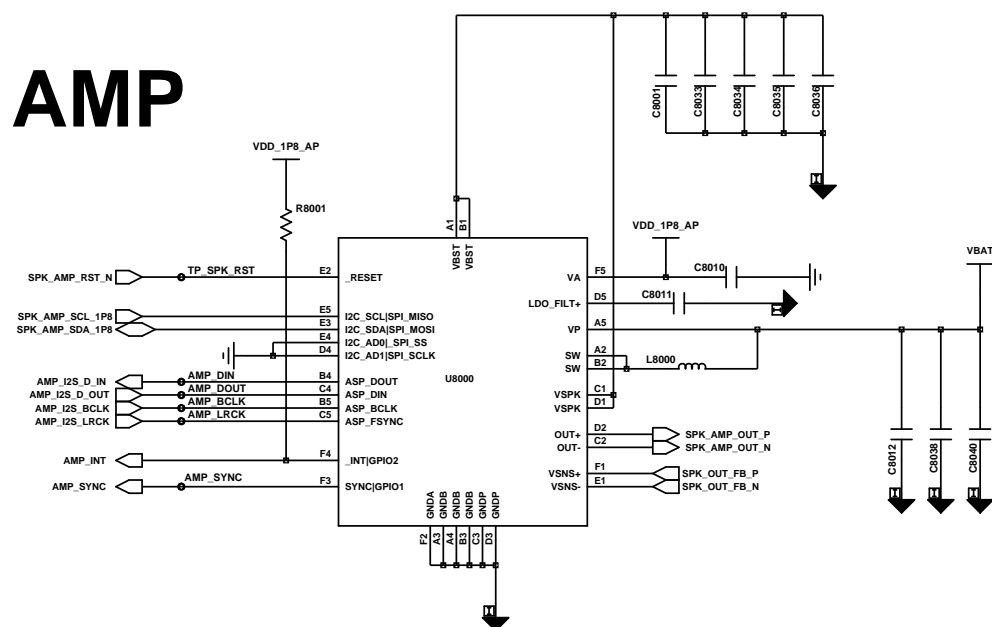




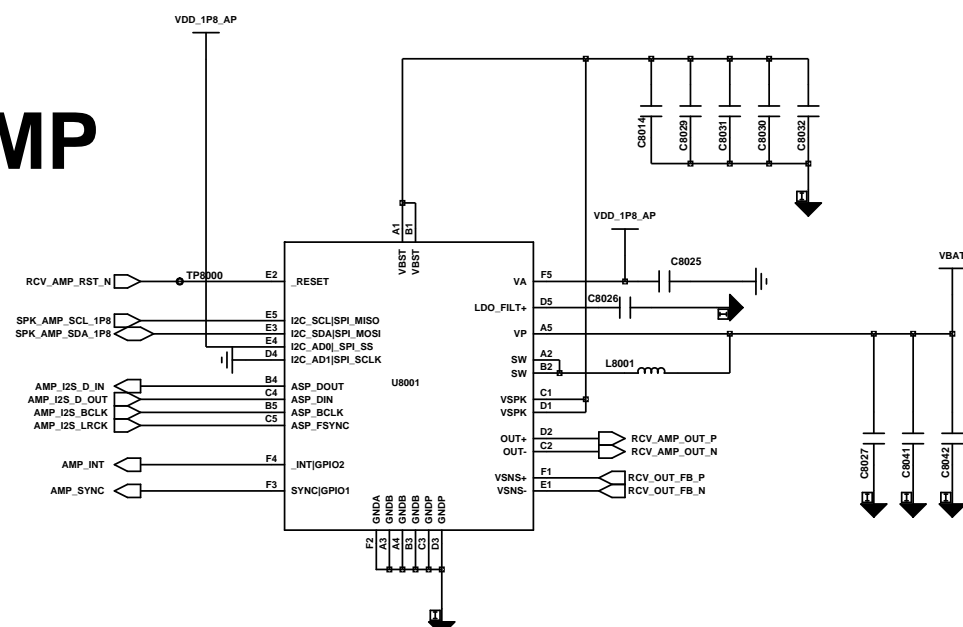
S2MPS24 PMIC LDO Cap



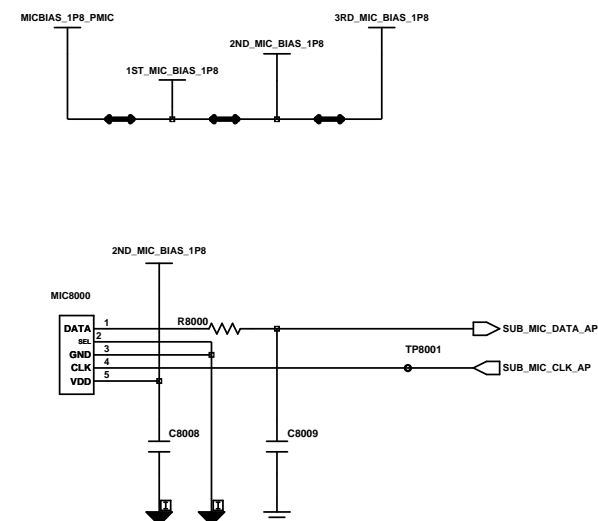
SPK AMP



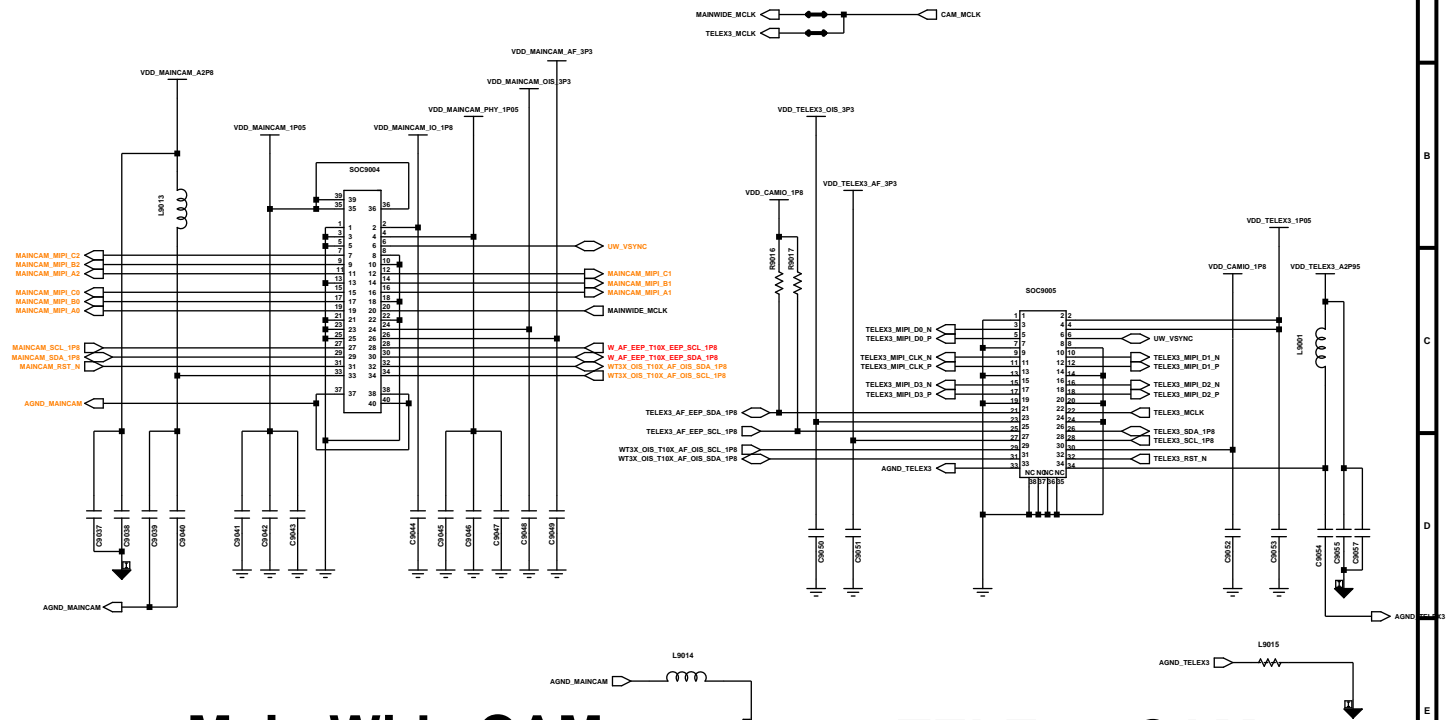
RCV AMP



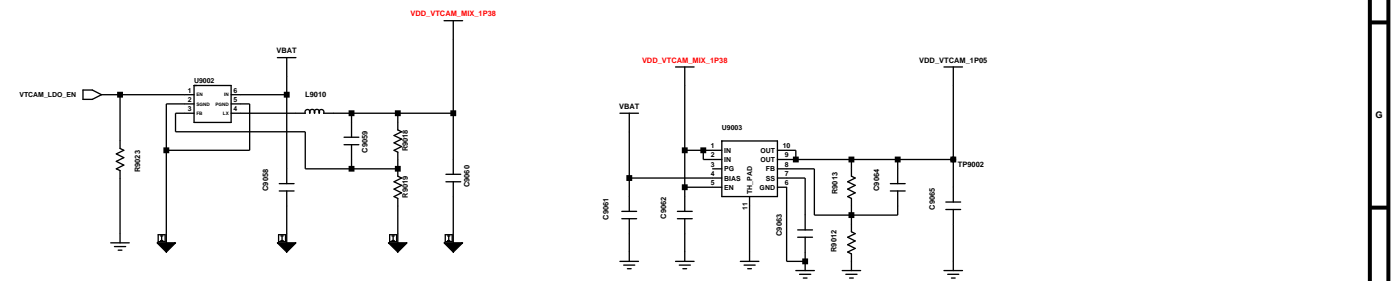
MAIN MIC : sub_PBA2



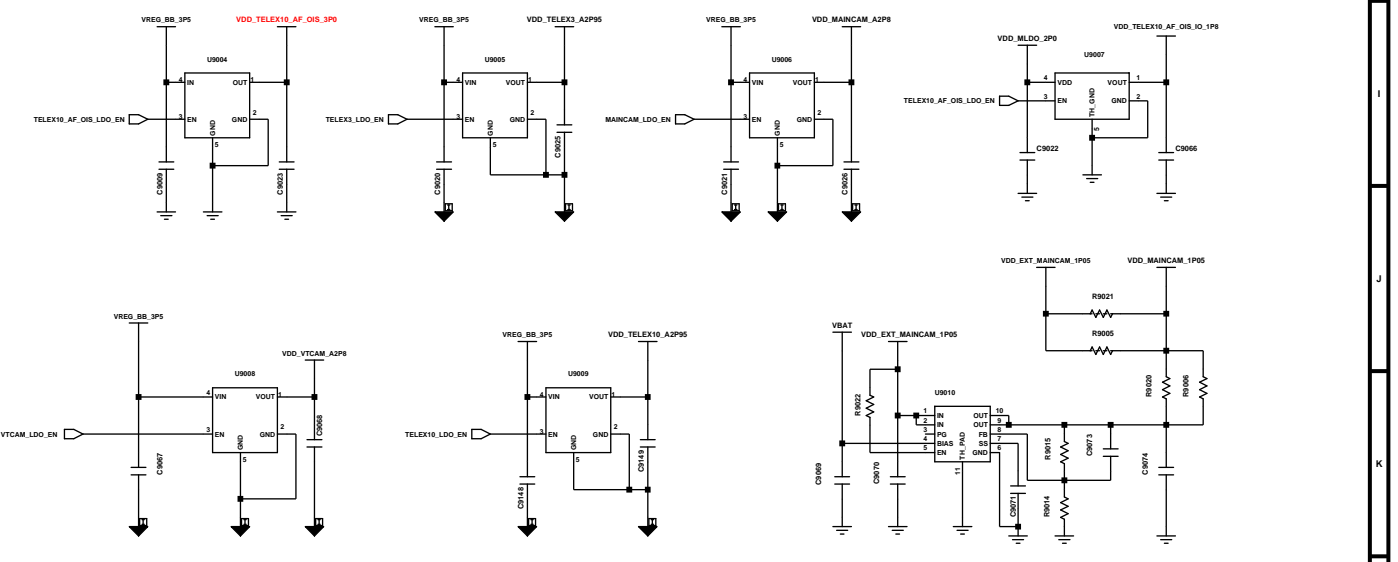
2nd MIC



TELE x3 CAM

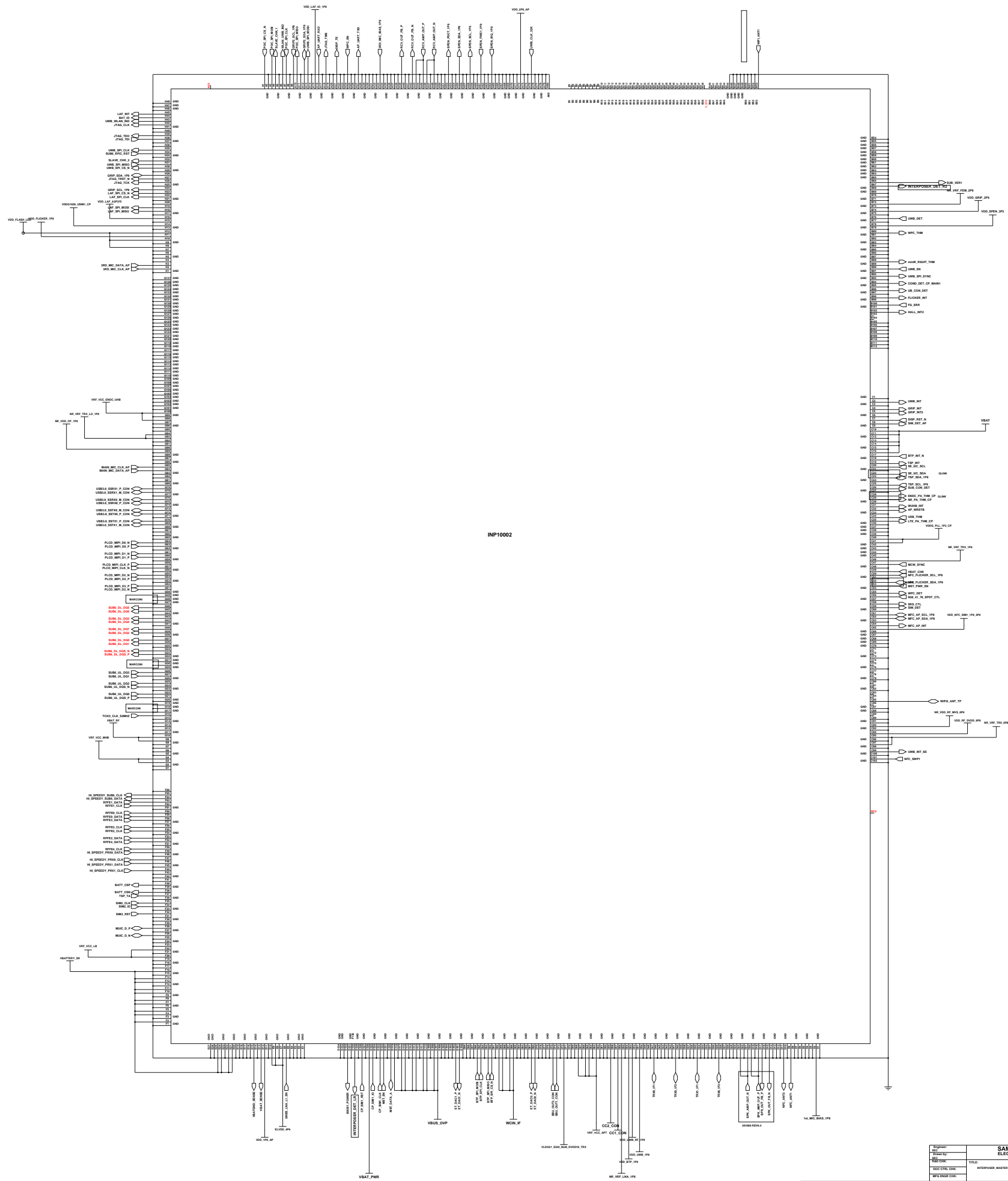


Ultra WIDE CAM CONN

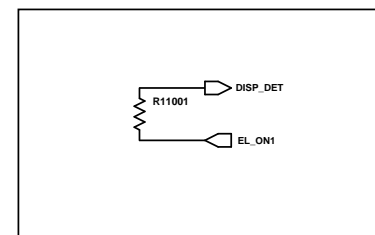
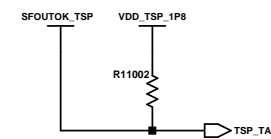


TELE x10 CAM

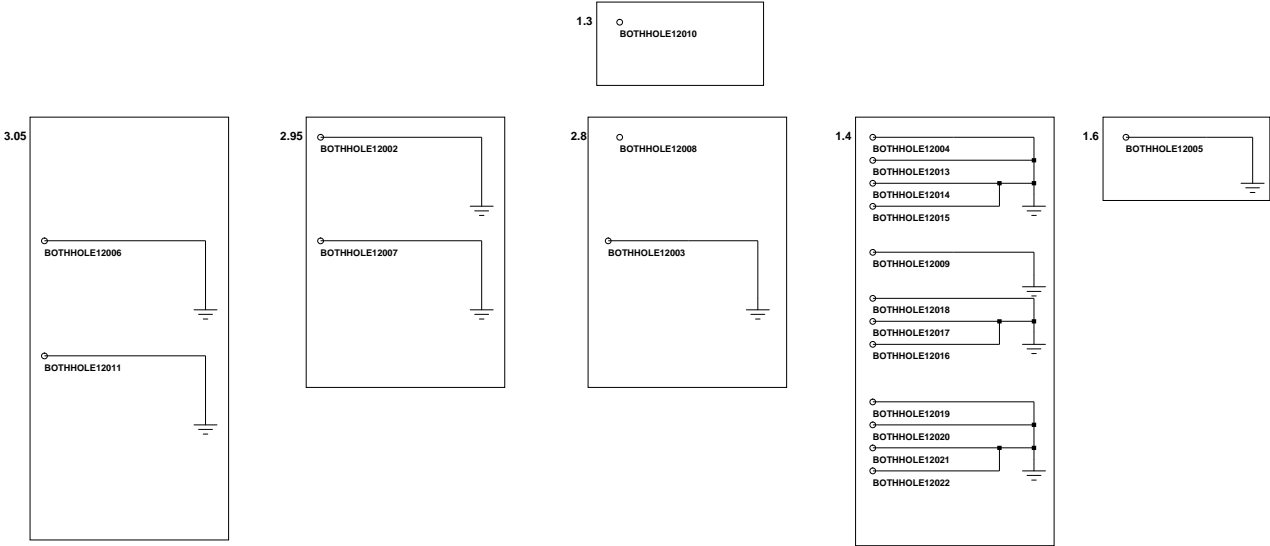
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DRAWN BY:				
R&D CHK:	TITLE:			
DOC CTRL CHK:	DREAM2_KANGCHEN			
MFG ENGR CHK:				



Power line is quite noisy. so lines must be shielded by GND plane
 .EVLDD,AVDD : Output > input > Inductor
 ELVSS : Output = Input > Inductor

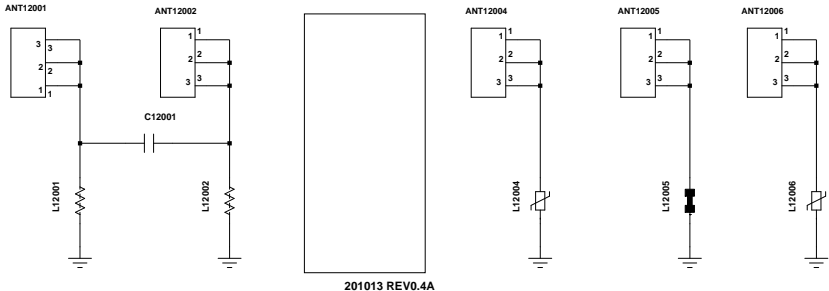


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Boss Hole

B
N
C



CCP

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Drawn by: cad			
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DOC CTRL CHK:			
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QA CHK:	REV:	Drawing Number:	Page: 10

Changed by: cad	Date Changed: Thursday, May 12, 2016	Time Changed: 2:08:37 pm
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SM-G998B/N_SLAVE_REV0.5

2020.10.23

sheet01 : RF(1/2)

sheet02 : RF (2/2), TRANSCEIVER

sheet03 : CONNECTIVITY(UWB,WIFI,NFC), mmW, SENSOR, AUDIO

sheet04 : CONNECTOR (FLASH, LOWER SUB, DISPLAY, PWR KEY)

sheet05 : WIRELESS CHARGER, MST SW, CONNECTOR(MFC, BATT), ETC

sheet06 : DIGITIZER

sheet07 : INTERPOSER

Engineer:

Drawn by:

RED CHK:

DOC CTRL CHK:

WARRANTY CHK:

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Date Changed:

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SM-G998B/N_SLAVE_REV0.5

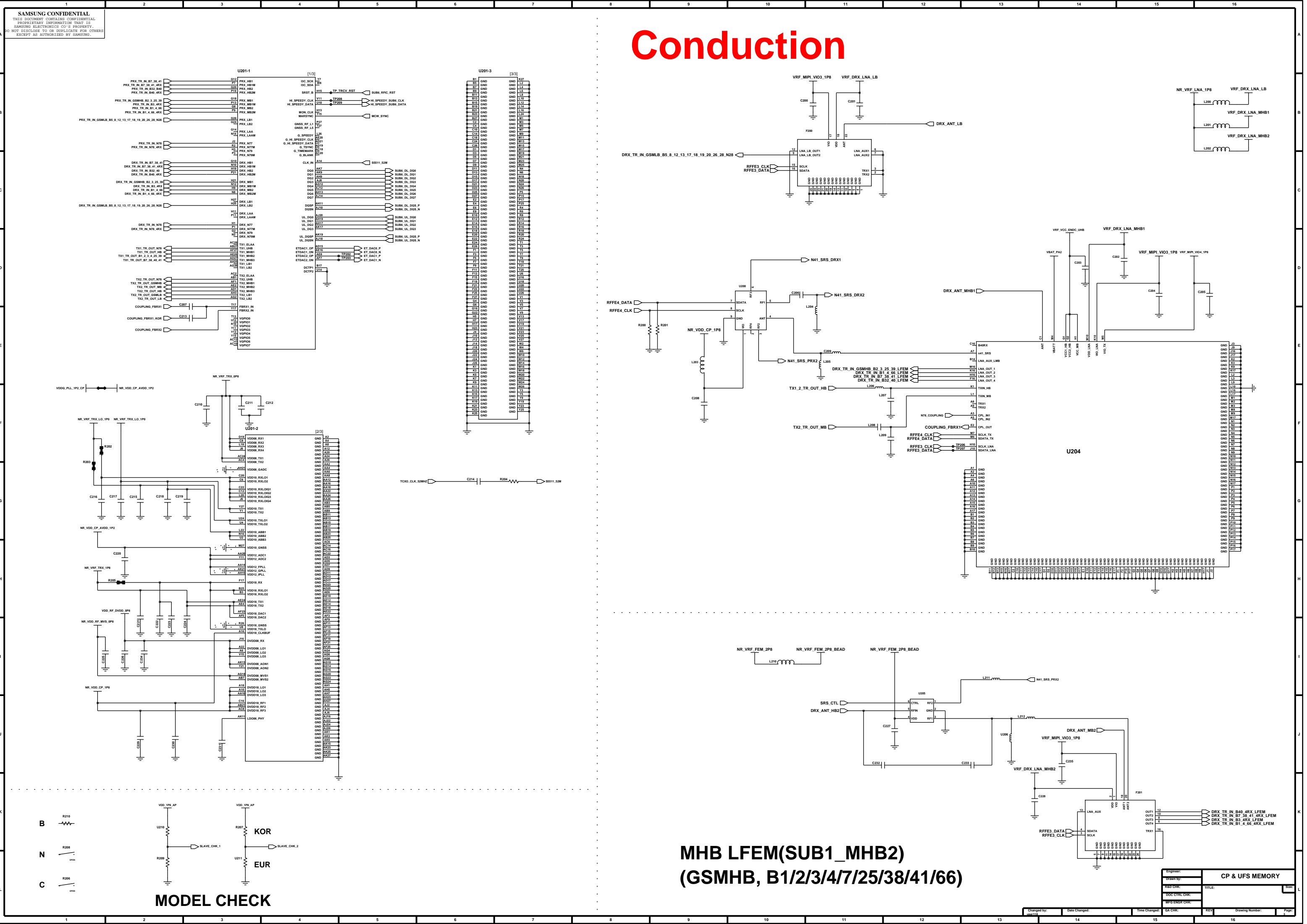
2020.10.23

- sheet01 : RF(1/2)
- sheet02 : RF (2/2), TRANSCEIVER
- sheet03 : CONNECTIVITY(UWB,WIFI,NFC), mmW, SENSOR, AUDIO
- sheet04 : CONNECTOR (FLASH, LOWER SUB, DISPLAY, PWR KEY)
- sheet05 : WIRELESS CHARGER, MST SW, CONNECTOR(MFC, BATT), ETC
- sheet06 : DIGITIZER
- sheet07 : INTERPOSER

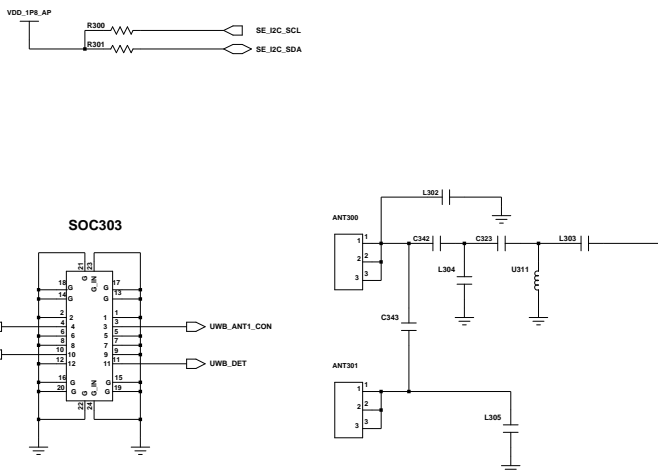
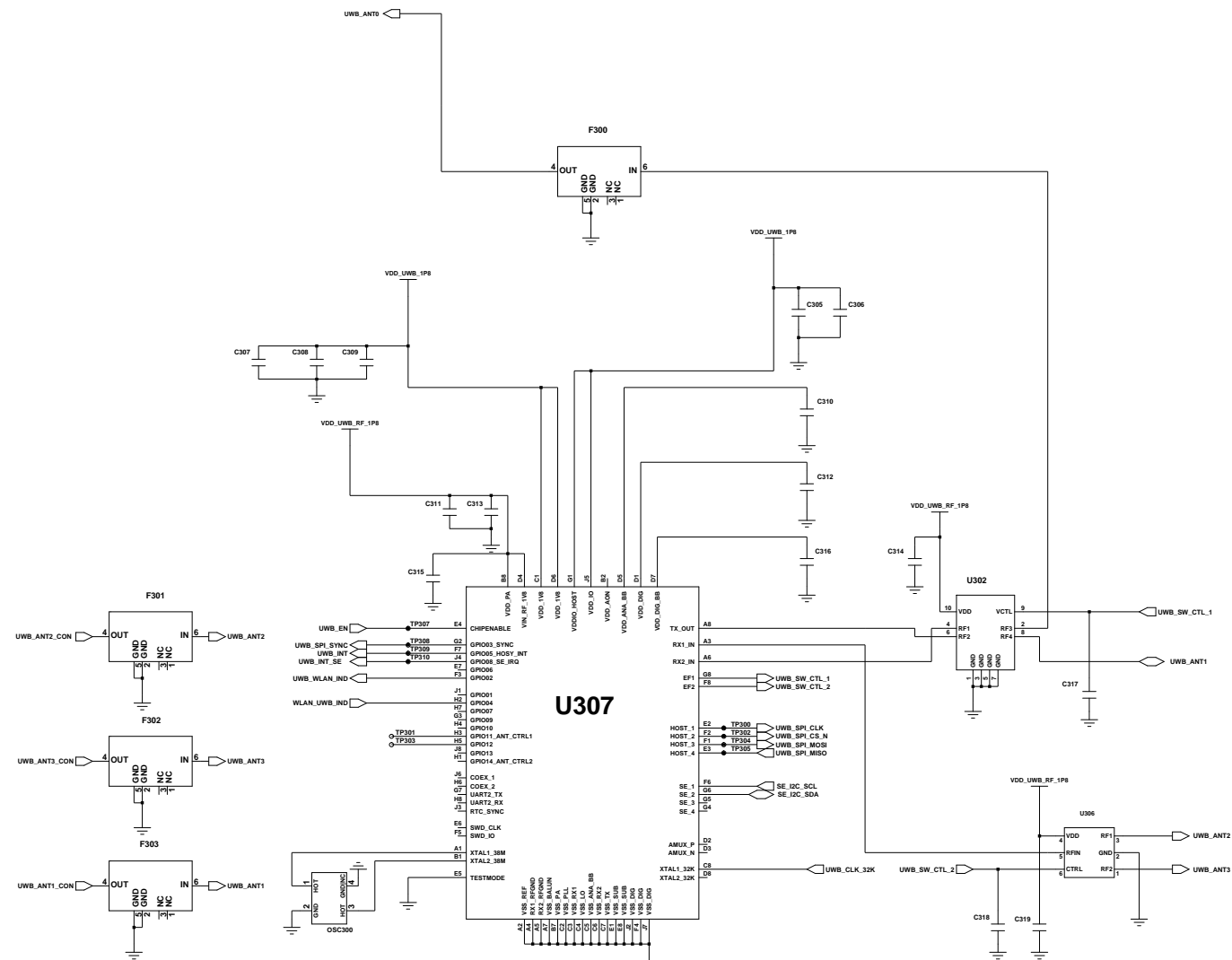
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Conduction





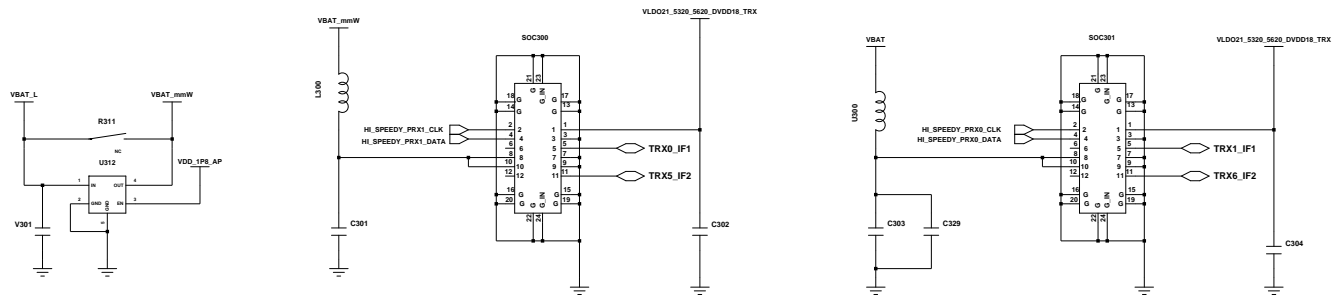
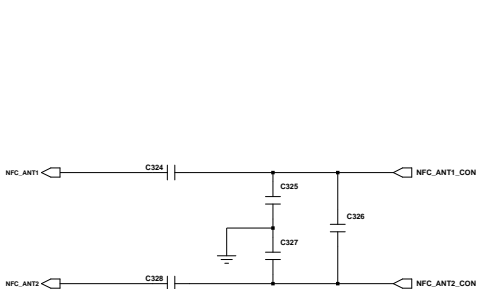
Connectivity



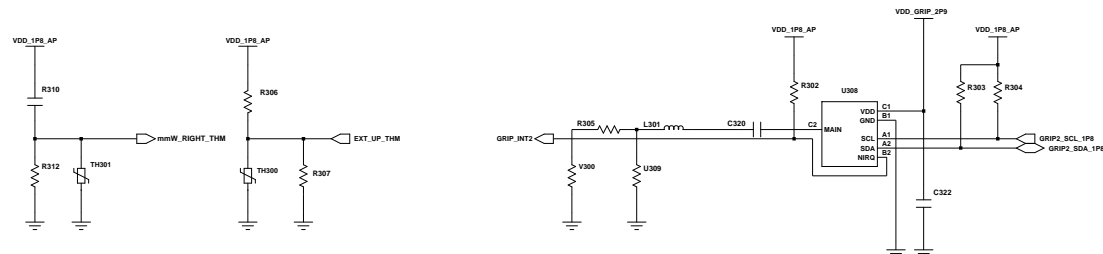
UWB ANT

WIFI ANT1 (LDS)

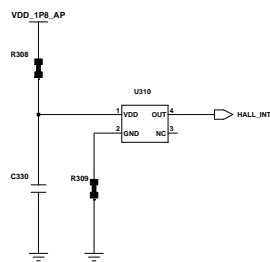
NFC



SENSORS

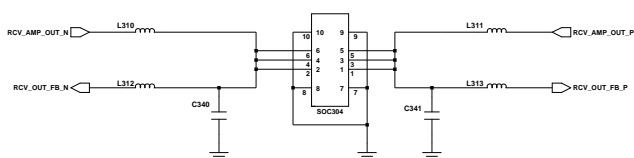


TEMP SENSING



BACK COVER_DETECT HALL_IC

AUDIO



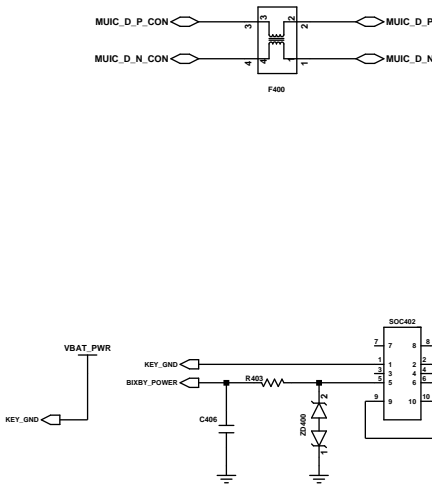
RCV CONNECTOR

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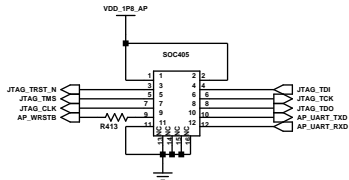
IF SUB PBA CONNECTOR

DISPLAY CONNECTOR

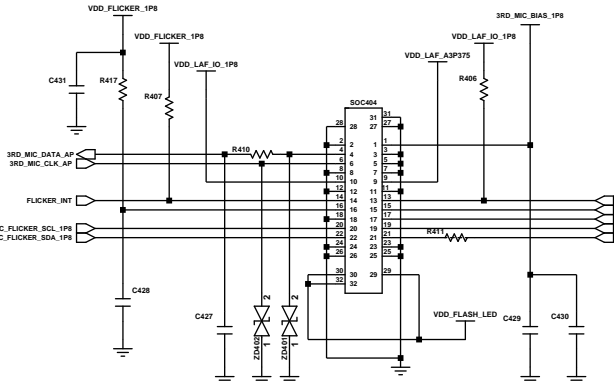
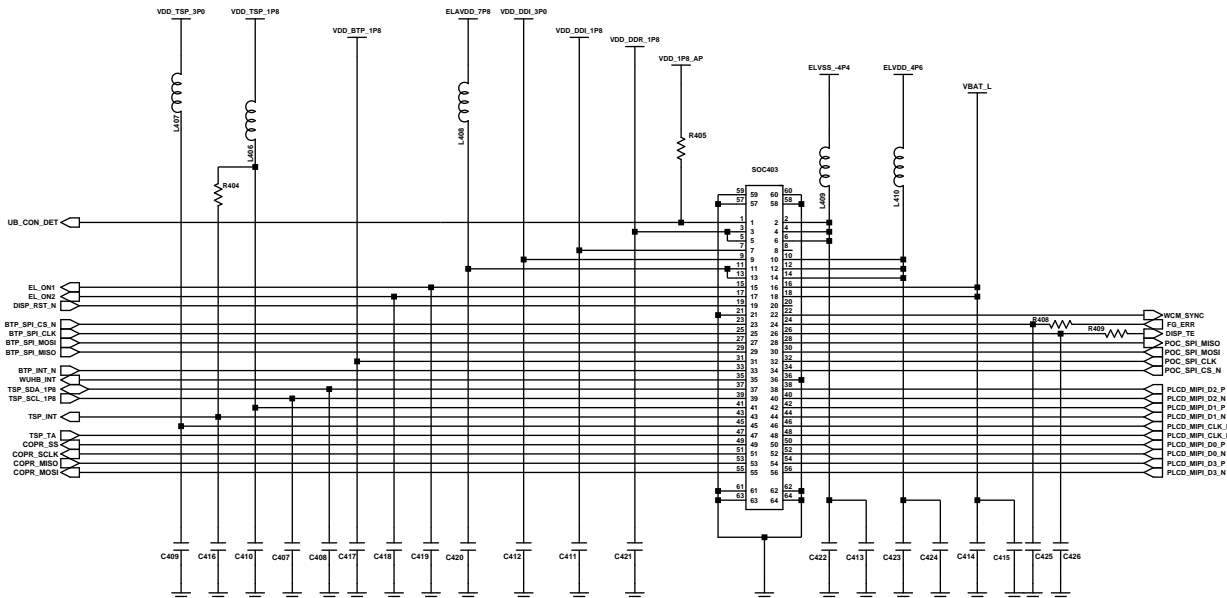
R/S CONNECTOR



POWER KEY

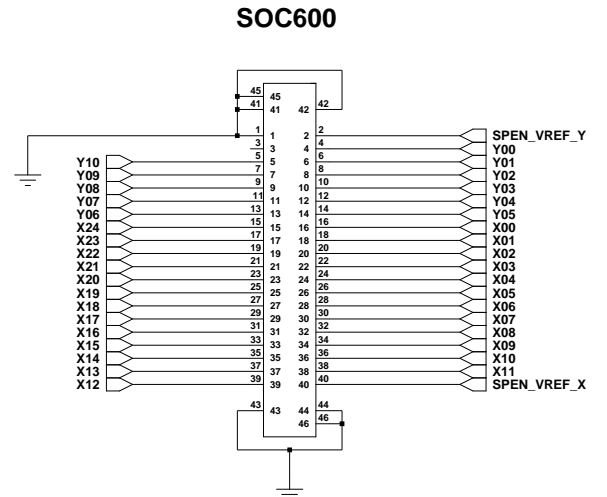
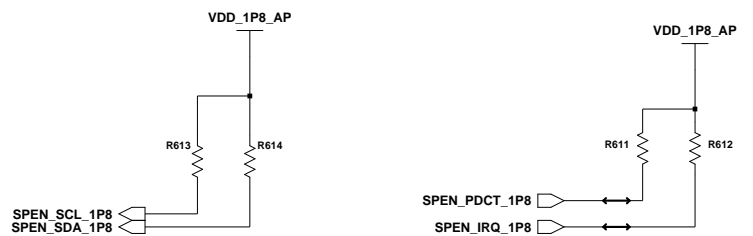
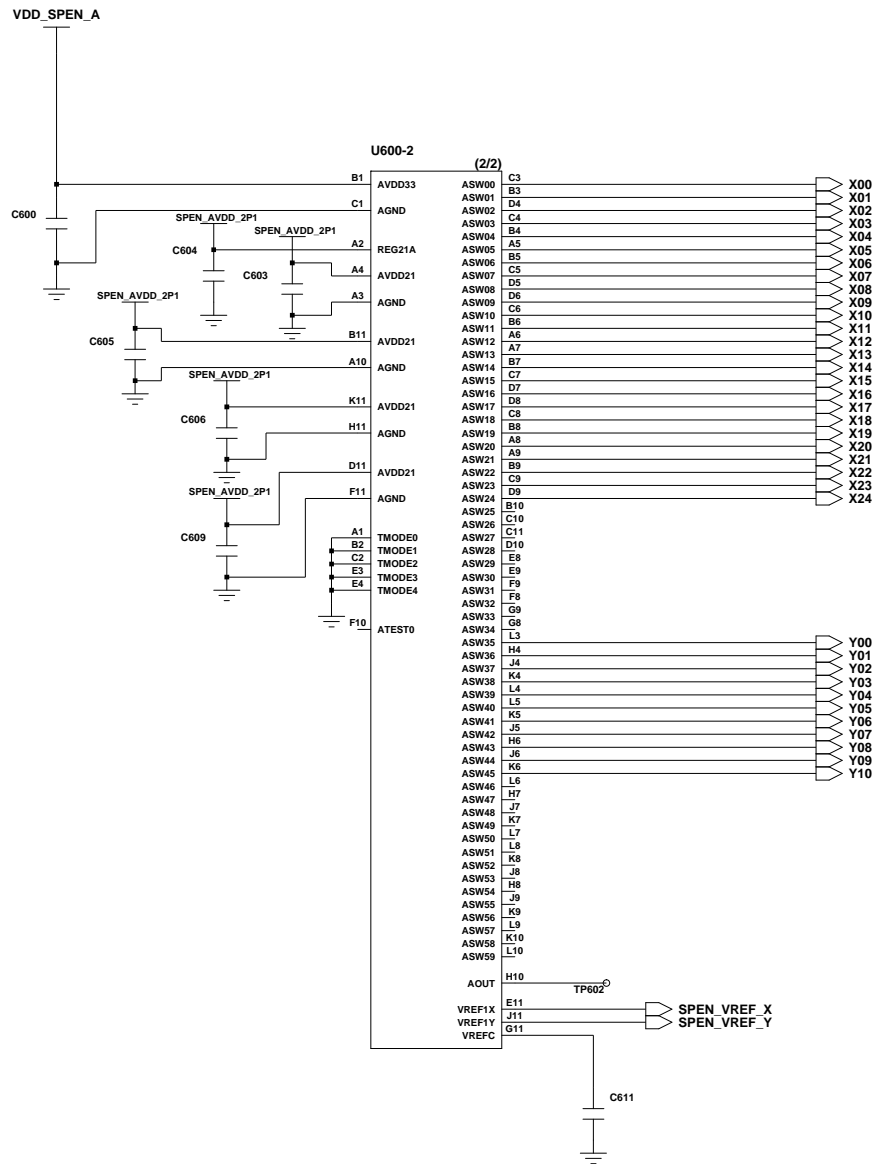
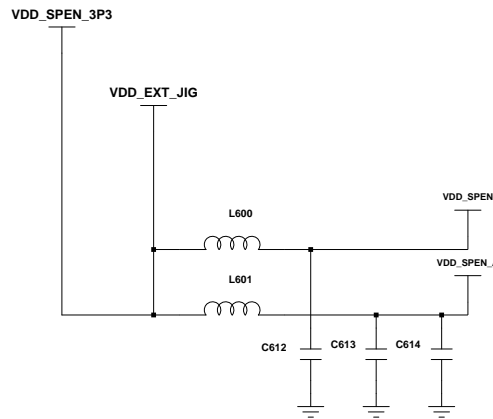
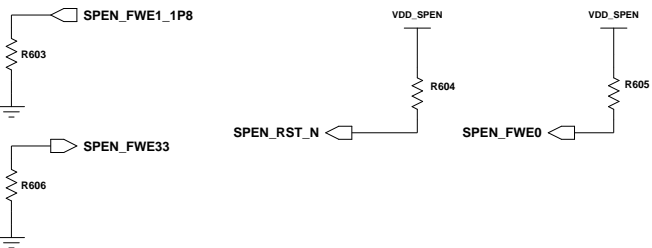
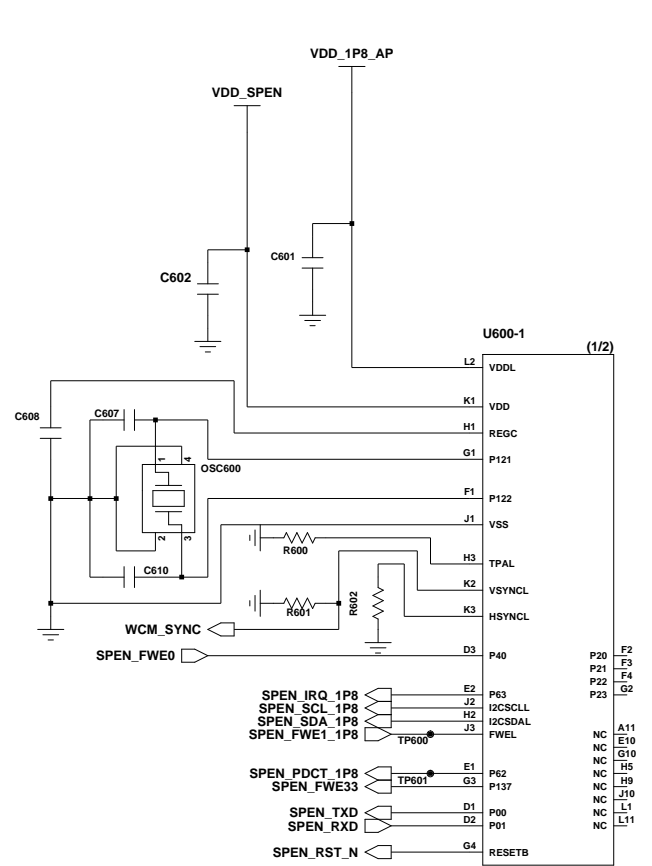


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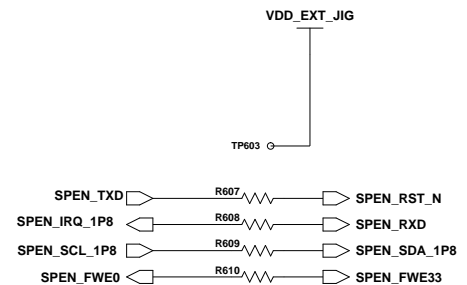


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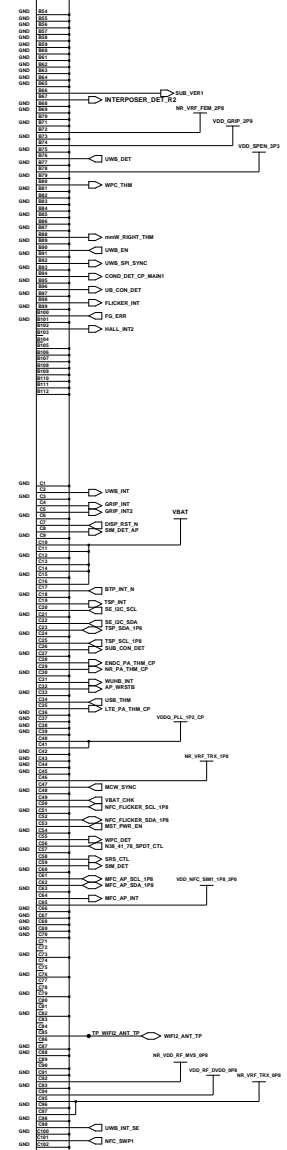
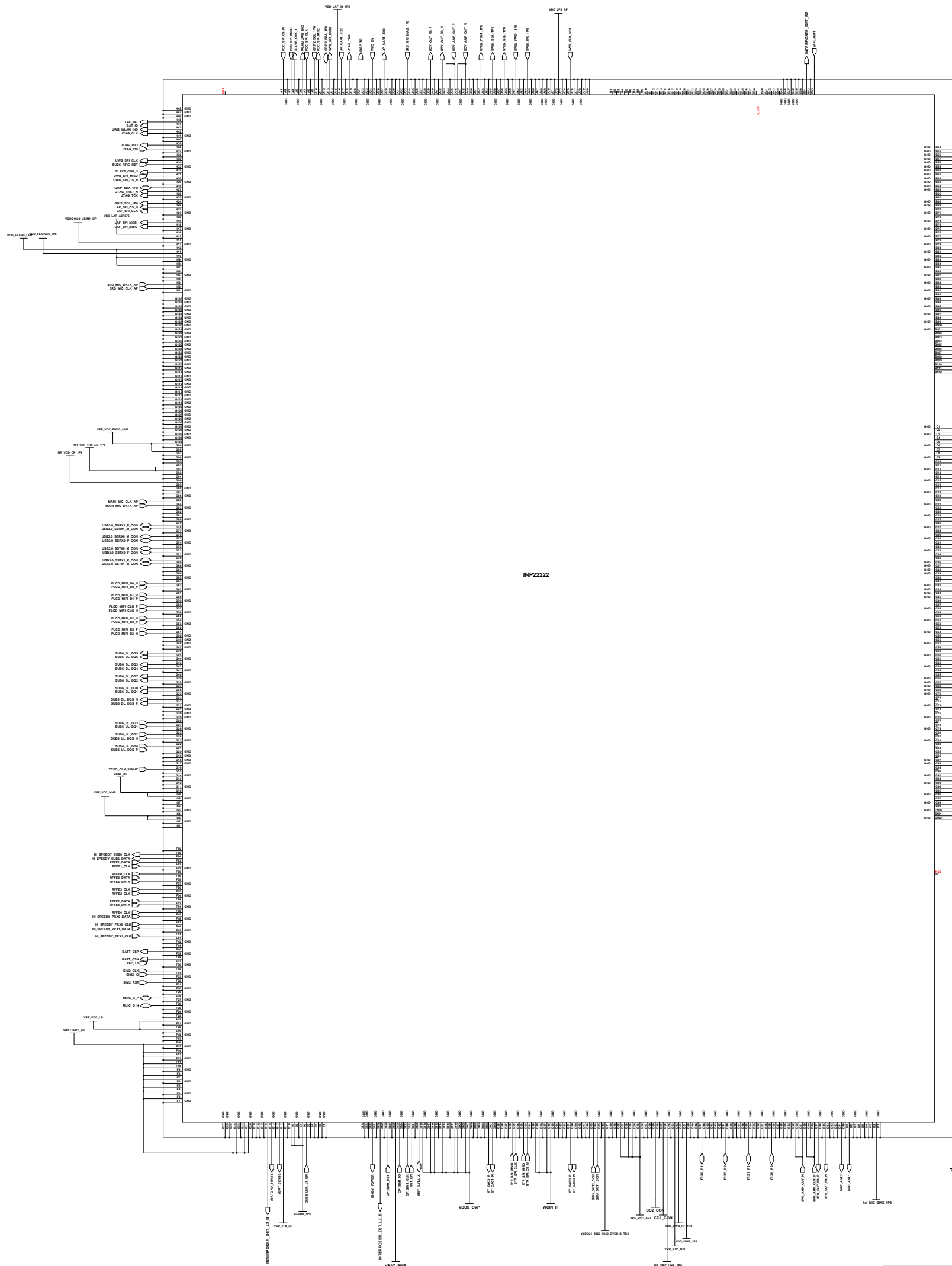


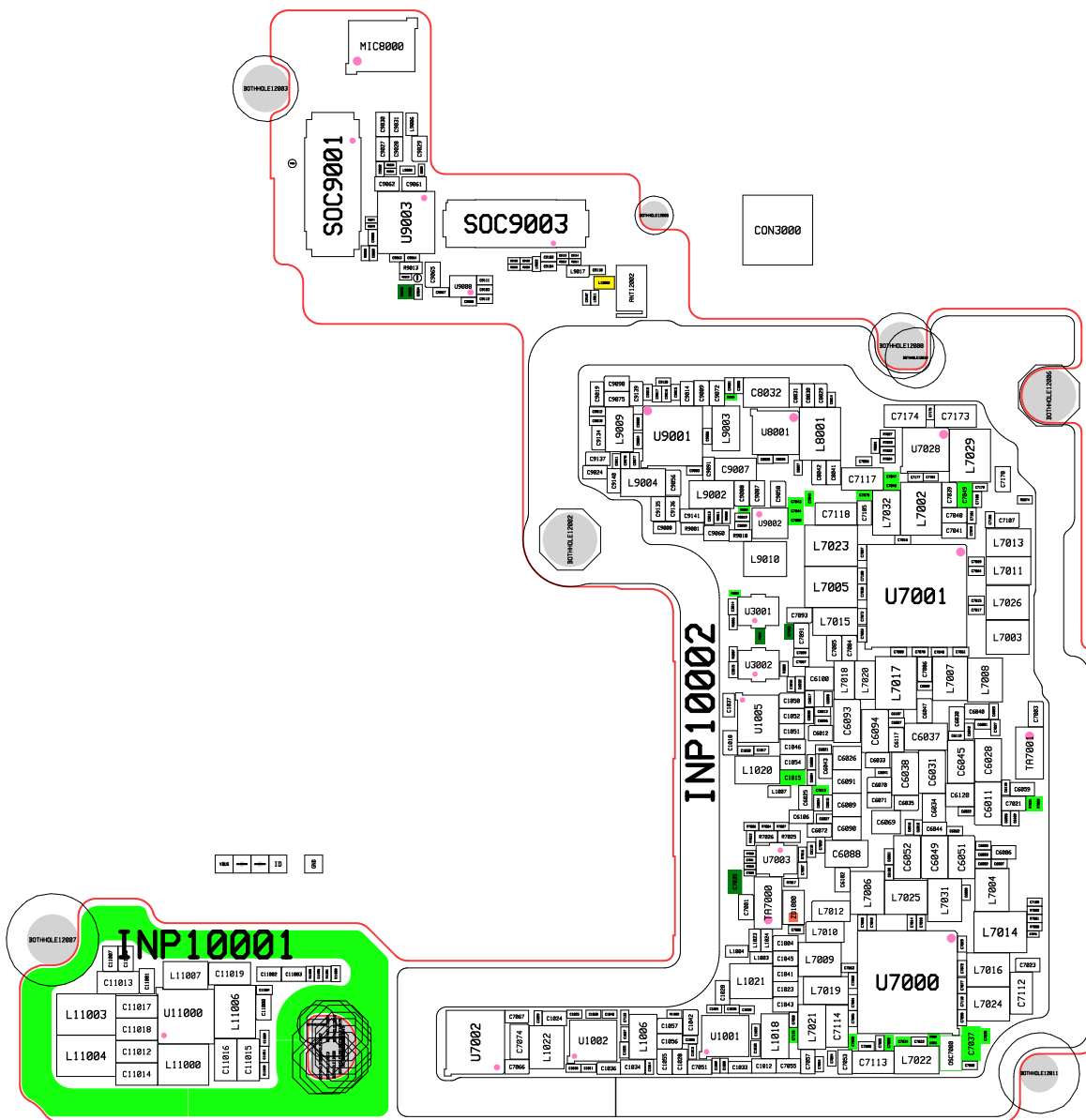
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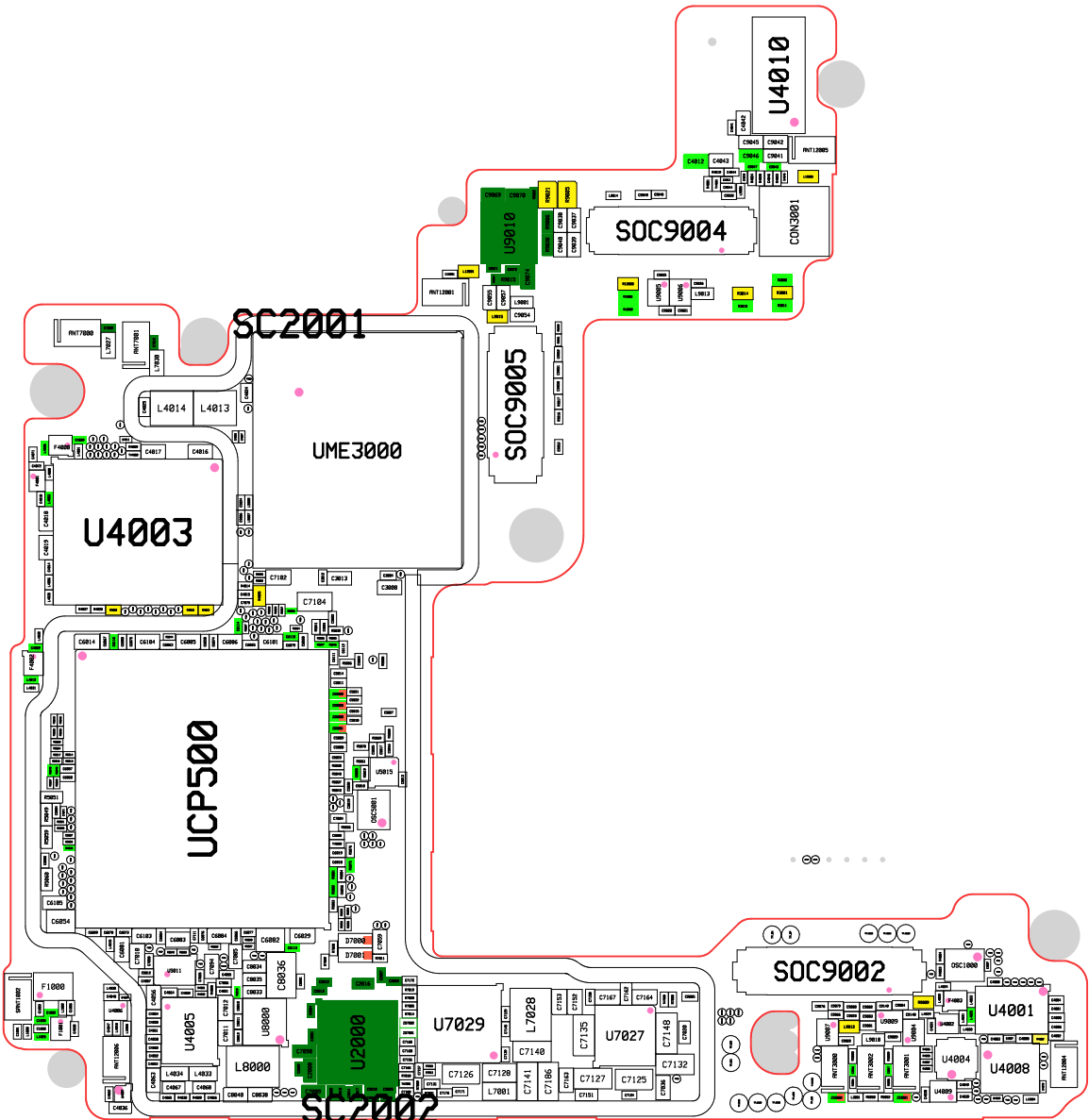


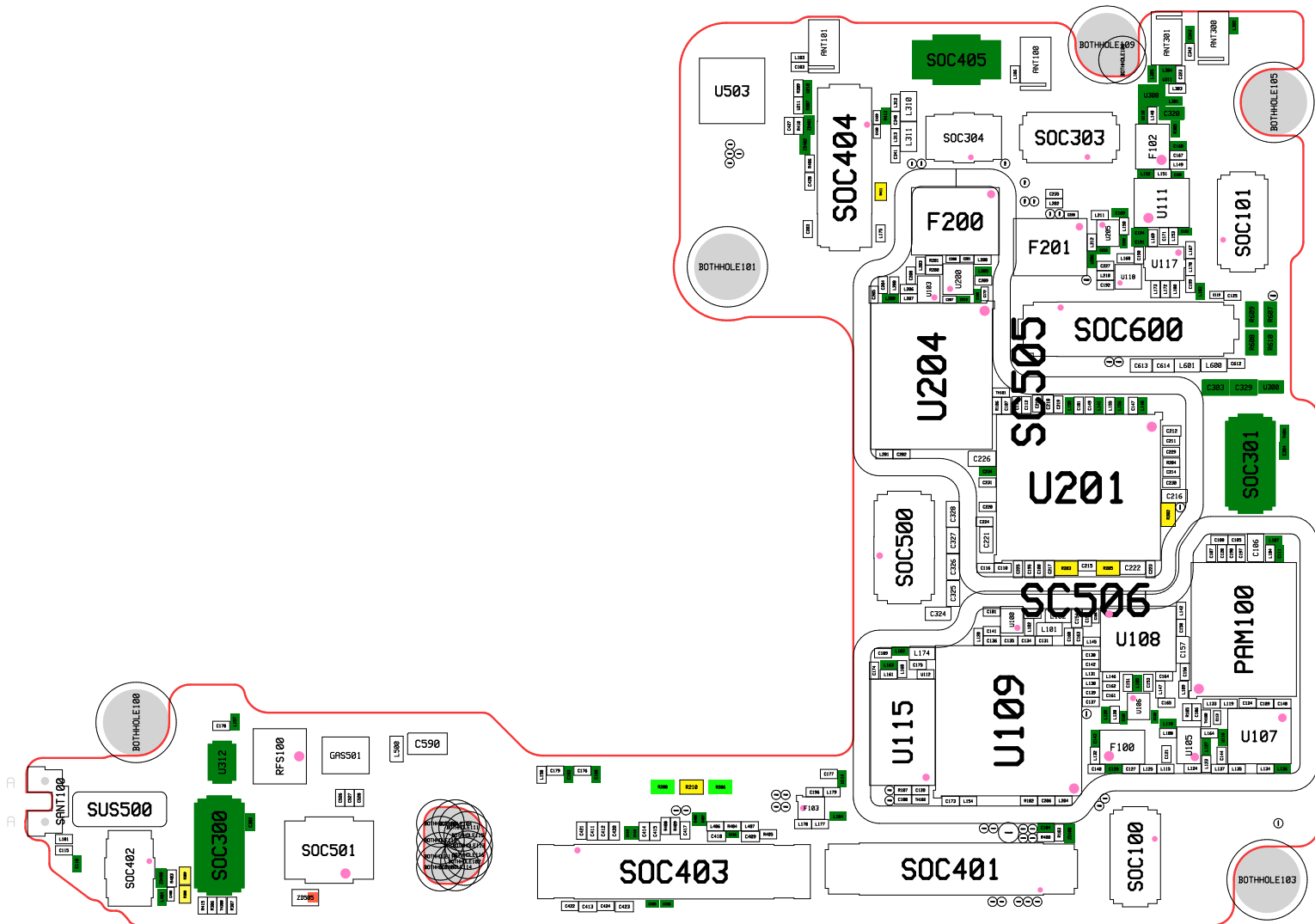
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INP222222

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U502

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TA502

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