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A3LSMS908U Secondary_AP

2021.10.

- SHEET01 : RF (1/2)
- SHEET02 : RF (2/2)
- SHEET03 : BT/WIFI, UWB
- SHEET04 : NFC IC, SENSOR, AUX SW, SIM SW
- SHEET05 : AP(1/2), UFS, NVM
- SHEET06 : AP(2/2)
- SHEET07 : AP PMIC, IF PMIC, Direct Charger, OVP IC, SIDE KEY
- SHEET08 : SPK AMP, MIC
- SHEET09 : CAM PMIC, CAM Conn., CAM MCU
- SHEET10 : RF PMIC, IF IC
- SHEET11 : INTERPOSER

Engineer:	
Drawn by:	
RDG CHR:	
DOC CTRL CHR:	
MFG ENGR CHR:	
QA CHR:	
Rev:	
Drawing Number:	
Page:	

MAIN FRC

MAIN1 ANT
(LB,MB,JPN B21)

MAIN2 ANT
(HB_n41)

MHB MIMO_LNA OUT

MAIN ANT3 (B48_n77/78/79)

THERMISTERS

MAIN ANT4 (n77/78/79)

on MASTER PCB

ET Modulator(QET6105#0)

ET Modulator(QET5100#1)

on MASTER PCB

LB LPAMID
(B5/8/12/13/14/17/20/26/28/29/71, G850/900, BC0/10)

CONFIDENTIAL

on MASTER PCB

OMH LPAMID
(B1/2/3/4/7/25/30/34/38/39/40/41/66, G1800/1900, BC1)

on MASTER PCB

on MASTER PCB

2G_PA

on MASTER PCB

TRANSCEIVER(Dual SDR735)

on MASTER PCB

GPS_L1(for SUB4 opt)

GPS_L5

on MASTER PCB

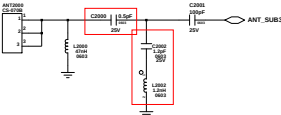
DRX_ANT

on MASTER PCB

CONFIDENTIAL

SUB ANT1
(lb,mb,hb)

SUB ANT2
(N77,N78)



SUB3
(UWB)

SUB4
(WIFI1 2.4G/5G, GPS L5)

SUB ANT5
(L1,MB,HB,N79)



CCP

SUB6
(UHB(b48/n77/n78/n79) mimo)

DRX_LB
(B5/8/12/13/14/17/18/19/20/26/28/29/71_BC0/10_G850/900)

DRX_MHB_2
(B2/4/7/25/30/41/66)

on MASTER PCB

QET6105 #2

ENDC module
(B1/2/3/4/7/25/30/39/41/66_BC1_DCS/PCS)

on MASTER PCB

UHB
(B48, n77/78)

UHB
(n79)

on MASTER PCB

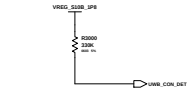
WIFI (BCM4389 CoB)

on MASTER PCB

UWB

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on MASTER PCB

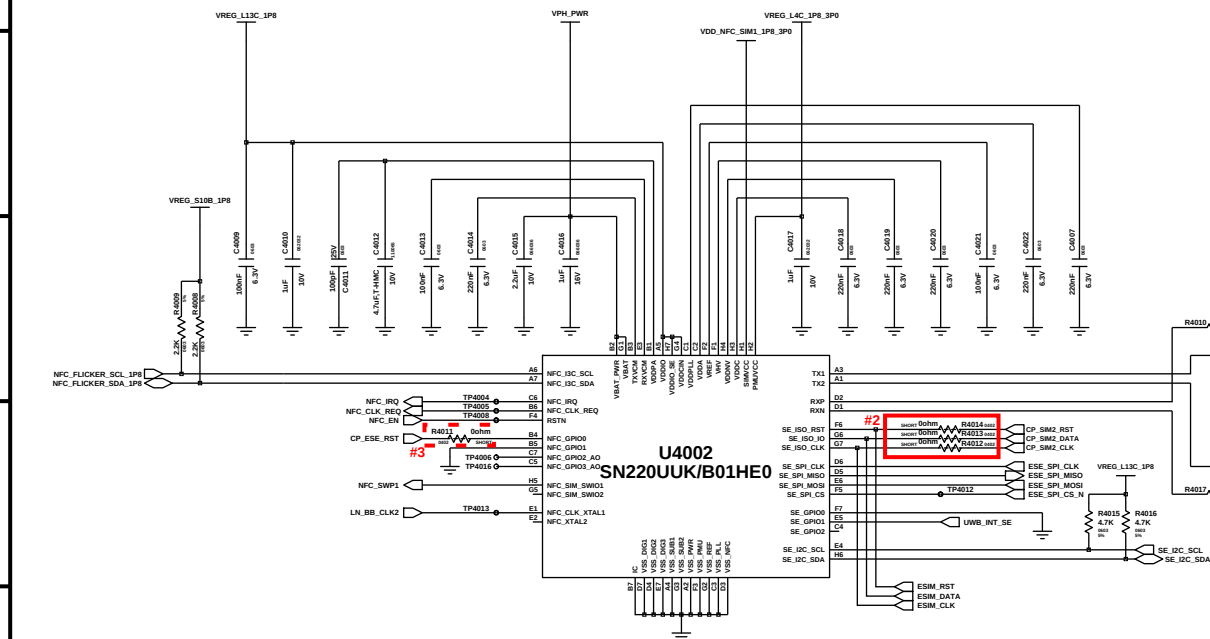


UWB Conn.

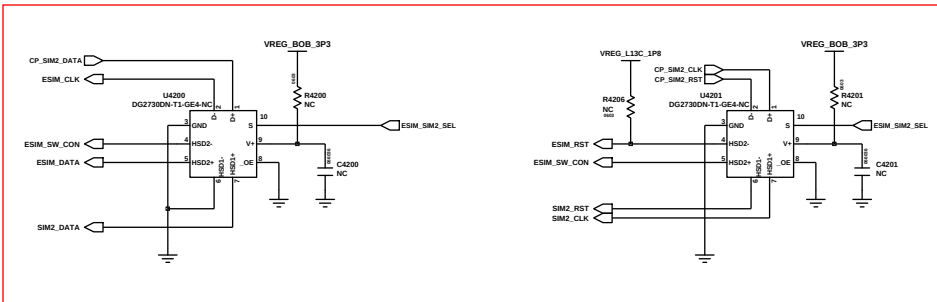
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Power

NFC



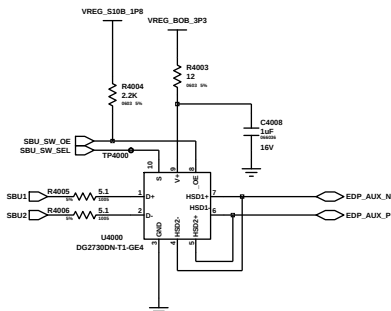
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NA	Nano + eSIM	SN220U	OPEN	SHORT	SHORT	20k		NC	
EUR/Global	2-Nano + eSIM	SN220U	OPEN	OPEN	SHORT	20k		SMD	HSD1(H)_SIM2 HSD2(L)_eSIM
CHN	2-Nano	SN220T	SHORT	OPEN	OPEN	20k		NC	
JPN	Nano	SN220F	OPEN	OPEN	OPEN	OPEN		NC	



System

on MASTER PCB

MOTOR DRV IC



AUX sw

MFC

Power

on MASTER PCB

MST Switch

SENSORS

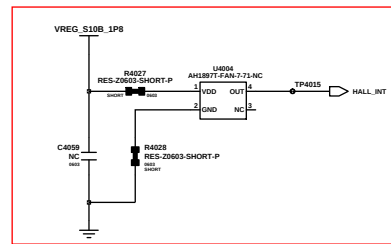
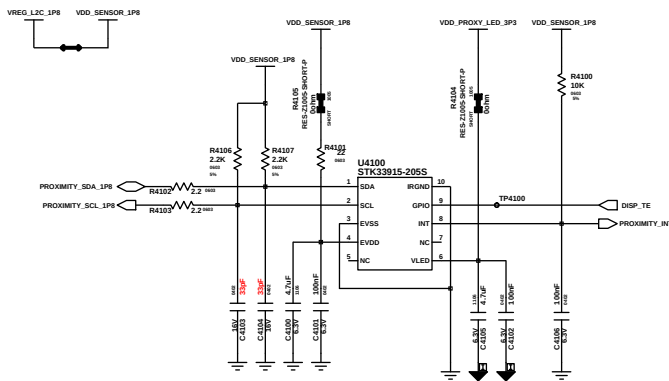
Visual

on MASTER PCB

Barometer SENSOR

6 Axis SENSOR (GYRO,ACCEL)

Magnetic SENSOR



COVER_DET HALL_IC

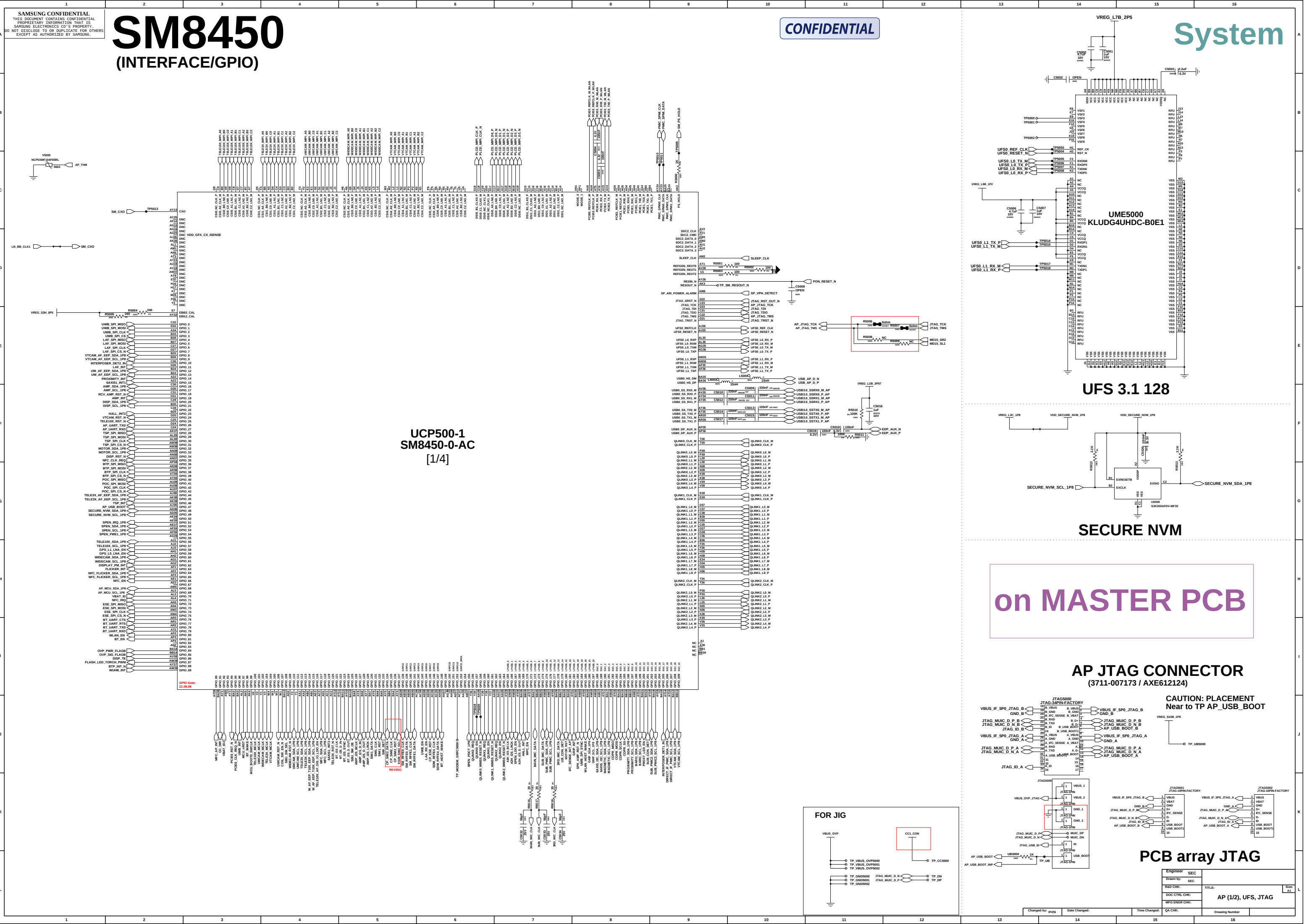
Battery Connector

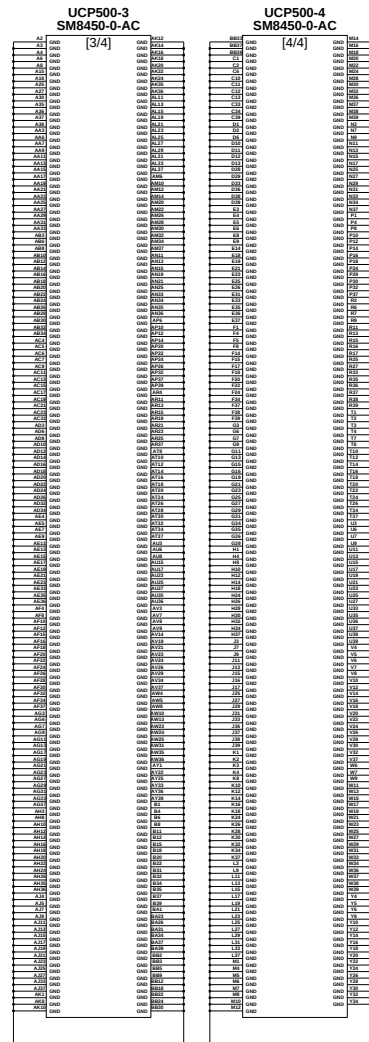
on MASTER PCB

Grip Sensor (Upper side)

Proximeter/Ambient Light Sensor

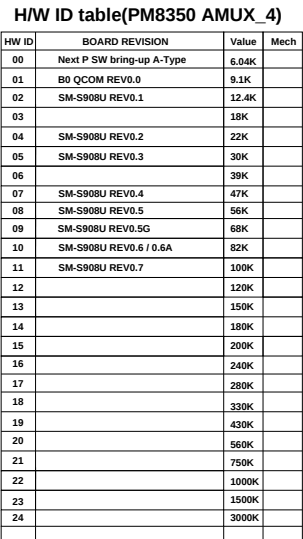
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Drawn by: SEC			
Rev: 001			
DOC CTRL CHG:			
MFG ENGR CHG:			
QA CHG:			
REV			
Drawing Number:			
Page:			



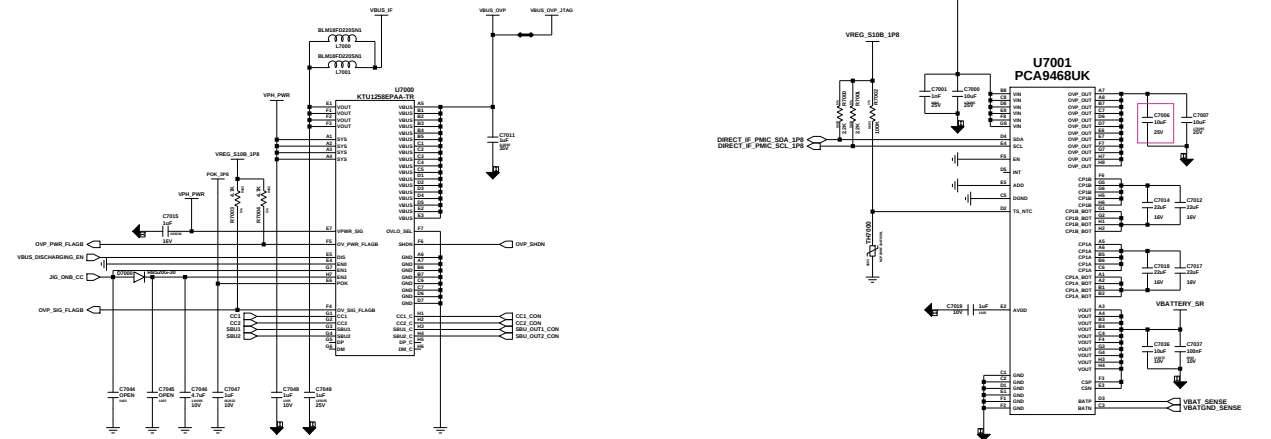


NA (U)

Power System

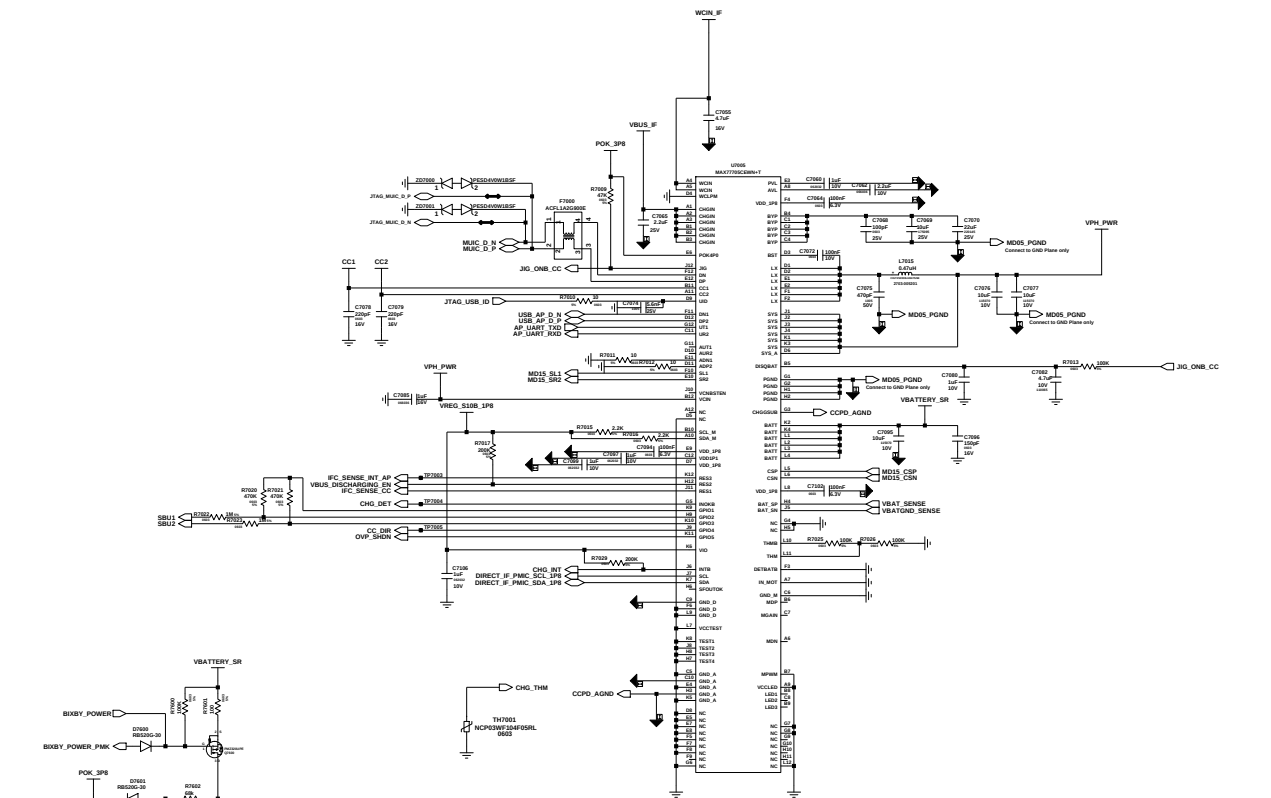


ID		Value
00	NA_mmW	6.04K
01	NA_CAN_Sub6	9.1K
02	CHN_Sub6	12.4K
03	Global_Sub6	18K
04	JPN_mmW	22K

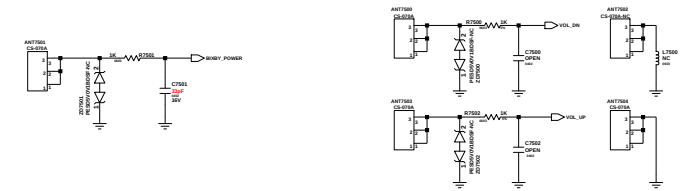


OVP LS

Direct Charging



IF PMIC



Power Key

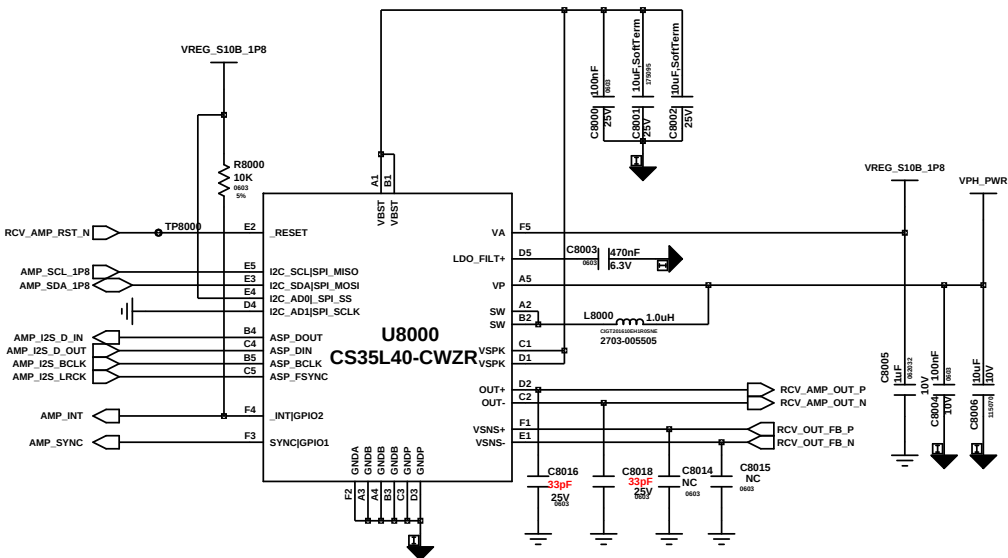
Vol key

AUDIO PART

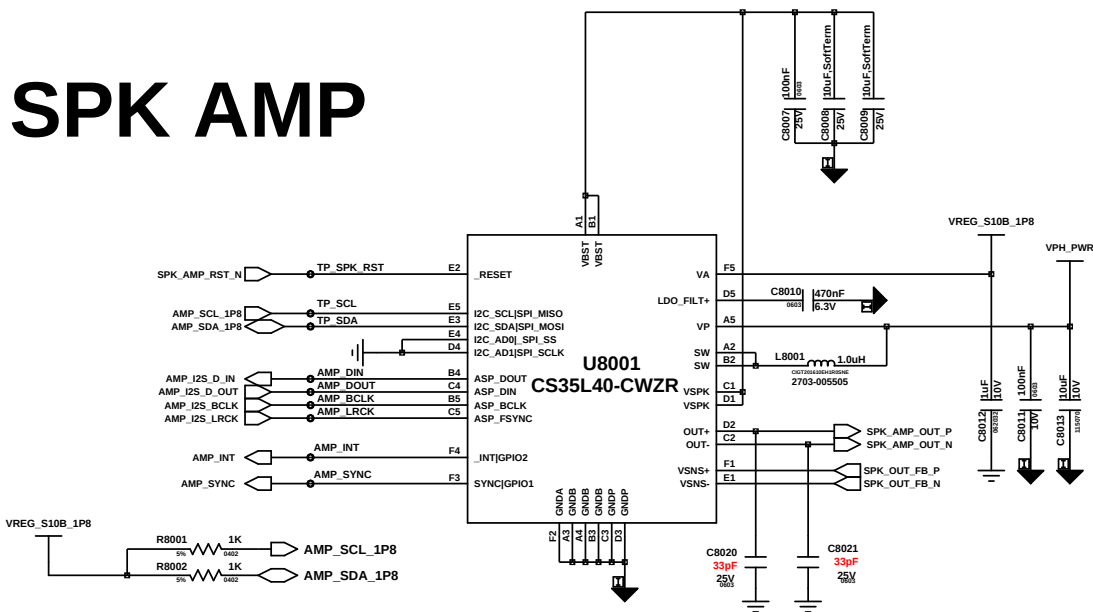
RCV Conn.

on MASTER PCB

RCV AMP



SPK AMP

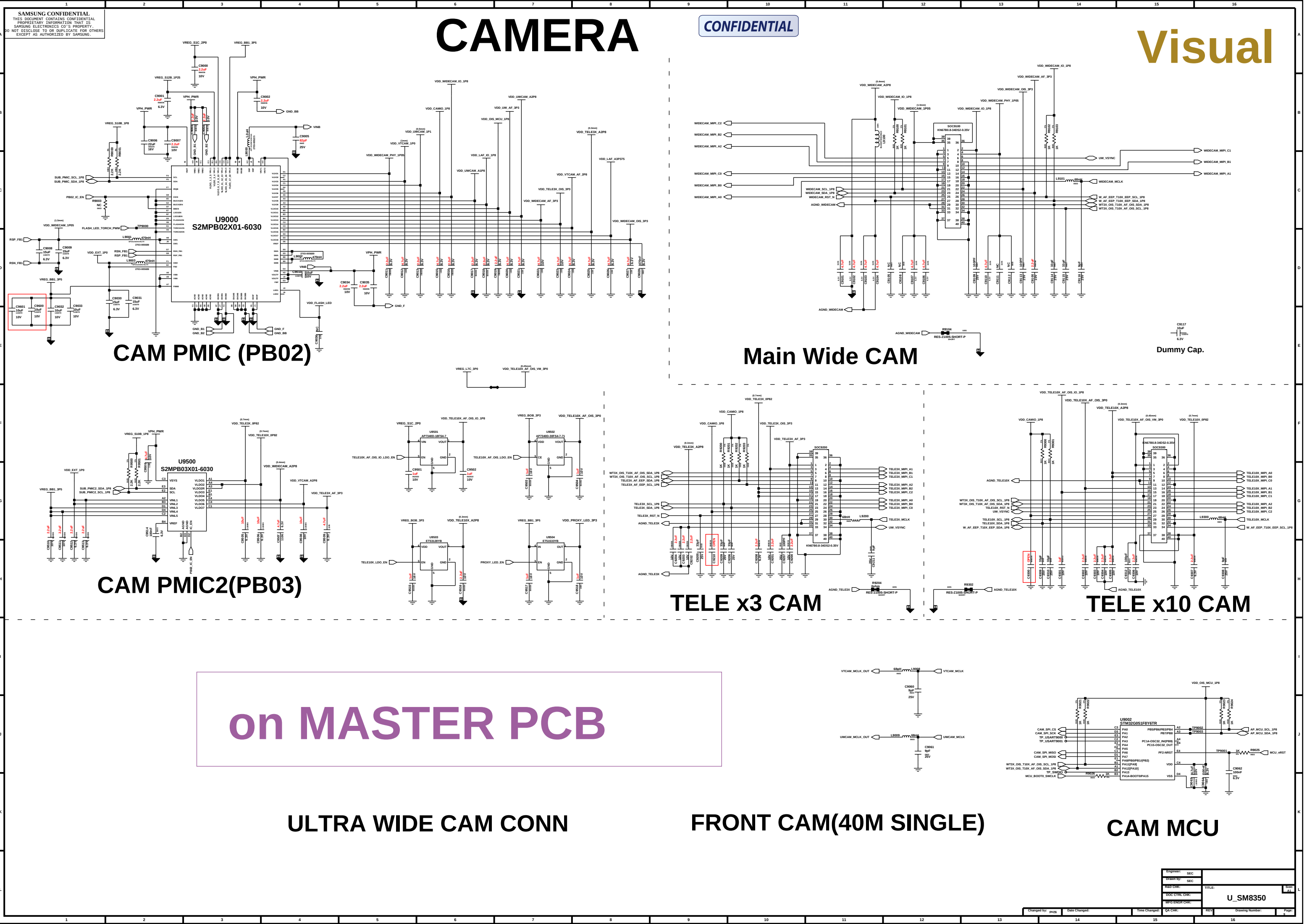


AUDIO

on MASTER PCB

2nd MIC

3rd MIC

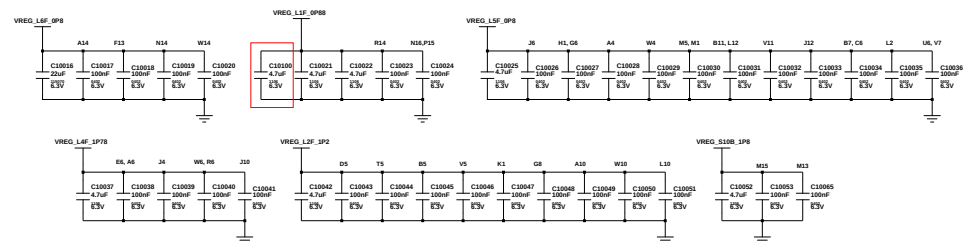


RF PMIC

on MASTER PCB

PMR735A

5G IFIC (SMR546)

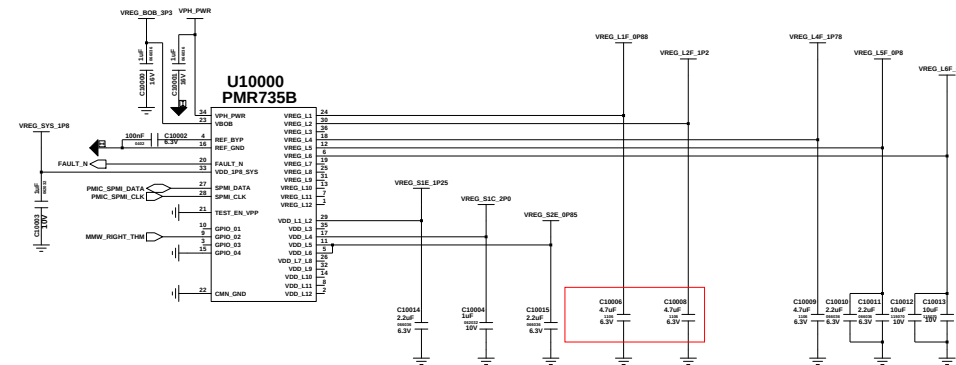


on MASTER PCB

mmW_ANT_CONN (Left)

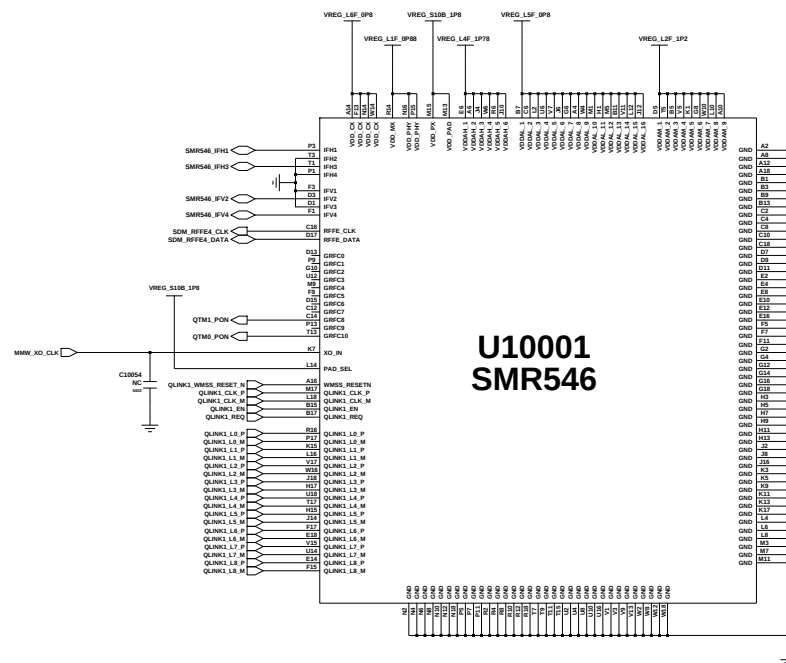
mmW_ANT_CONN (Right)

Power



PMR735B

Radiation



U10001
SMR546

Engineer:	SEC	SAMSUNG ELECTRONICS		
Drawn by:	SEC			
R&D CHK:		TITLE: RF PMICs, 5G		Size: E
DOC CTRL CHK:				
MFG ENGR CHK:				
QA CHK:		REV:	Drawing Number:	Page: 13

Changed by:	puzg	Date Changed:		Time Changed:	
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B																	
C																	
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G																	
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J																	
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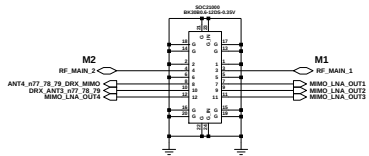
A3LSMS908U Master_RF

10 2021

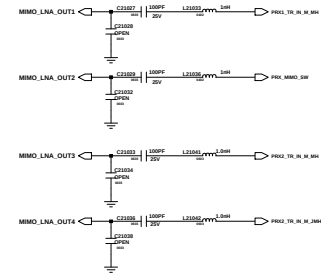
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Drawn by:			
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DOC CTRL CHR:		U_ SAMS908	
MFG ENGR CHR:		REV:	
QA CHR:		Drawing Number:	
Changed By: Rho		Date Changed:	
Time Changed:		Page:	

Radiation

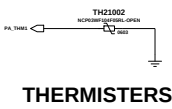
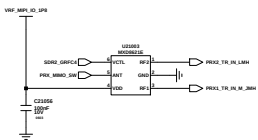
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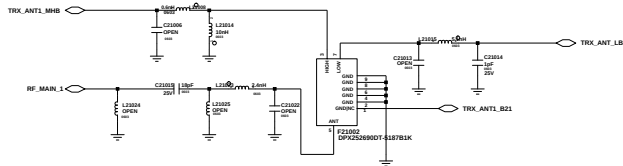
MAIN FRC



MHB MIMO_LNA OUT

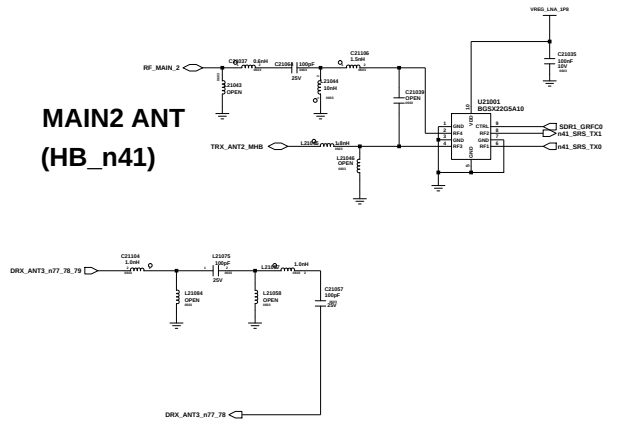


THERMISTERS

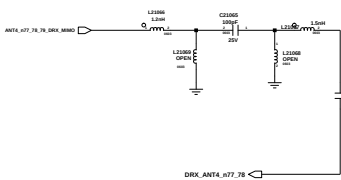


MAIN1 ANT (LB,MB,JPN B21)

MAIN2 ANT (HB_n41)

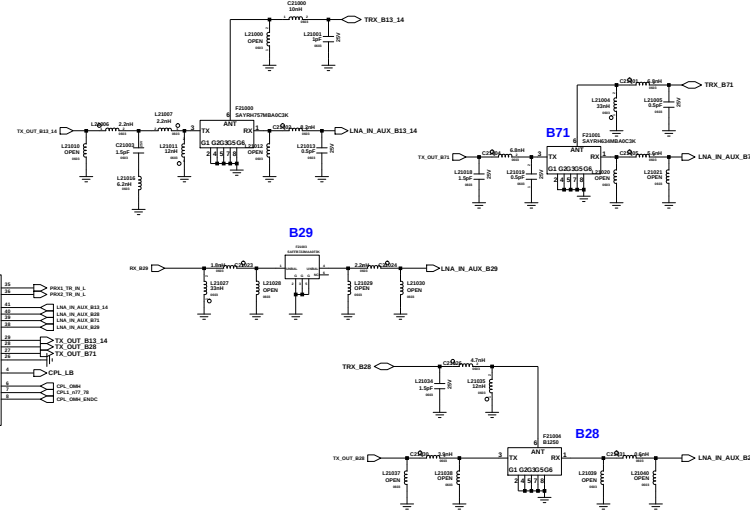
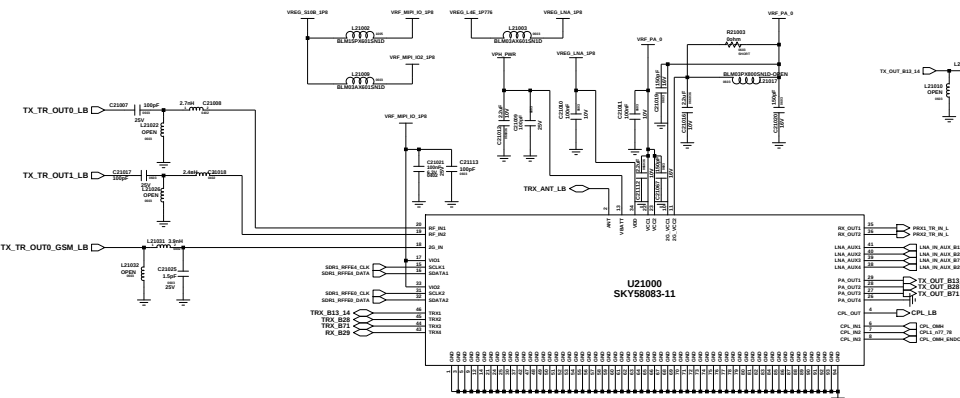


MAIN ANT3 (B48_n77/78/79)

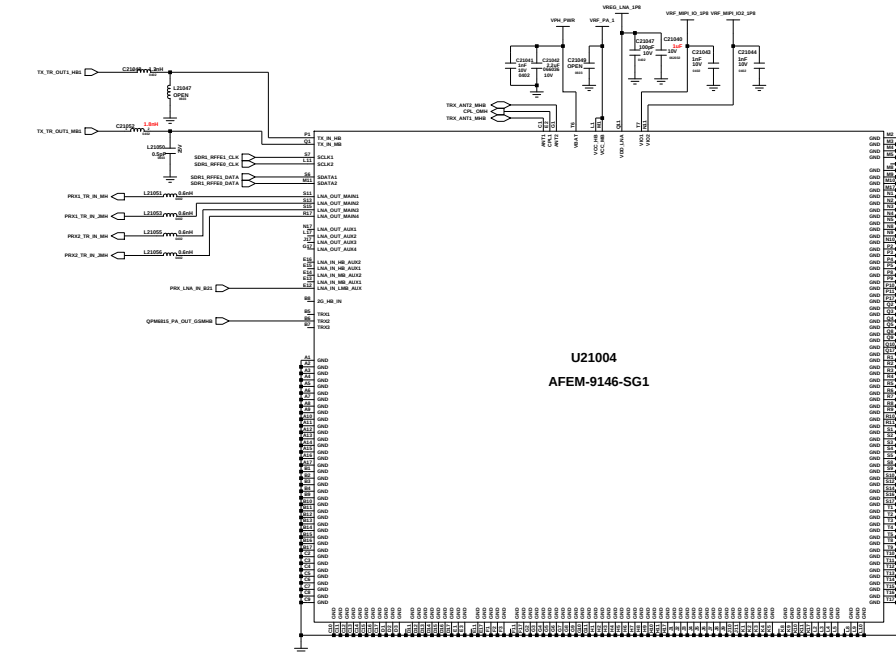


MAIN ANT4 (n77/78/79)

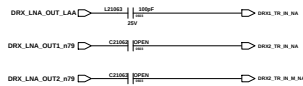
LB LPAMID (B5/8/12/13/14/17/20/26/28/29/71, G850/900, BC0/10)



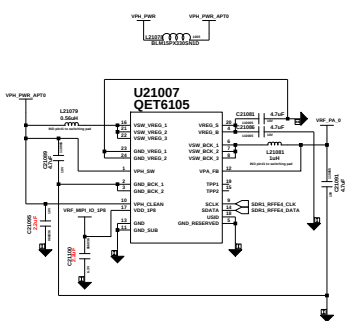
OMH LPAMID (B1/2/3/4/7/25/30/34/38/39/40/41/66, G1800/1900, BC1)



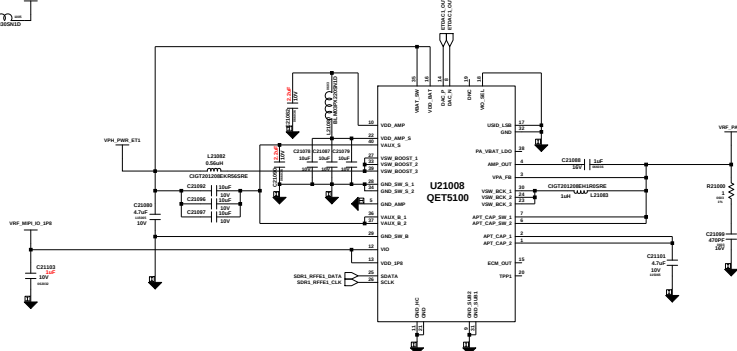
THERMISTER



ET Modulator(QET6105#0)



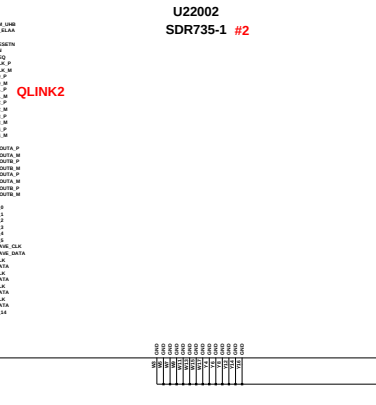
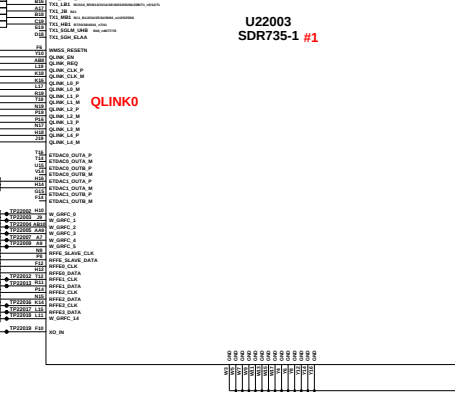
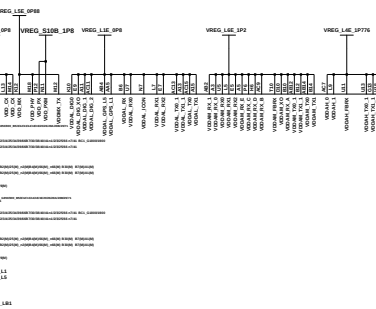
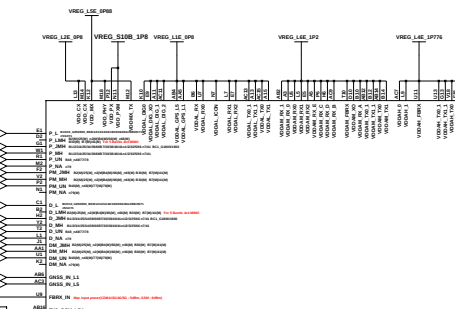
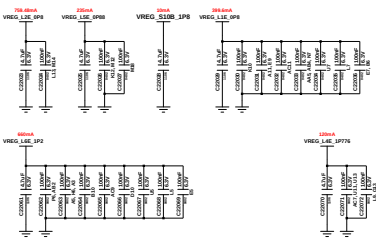
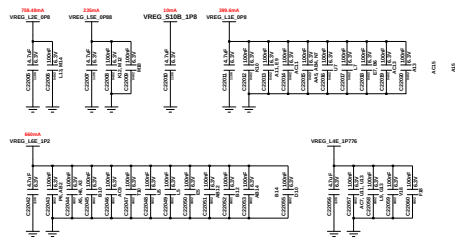
ET Modulator(QET5100#1)



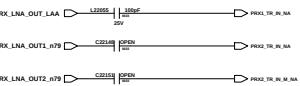
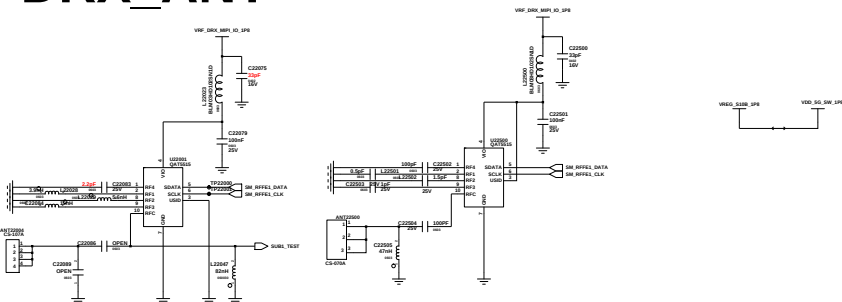
2G_PA DELETE

TRANSCEIVER(Dual SDR735)

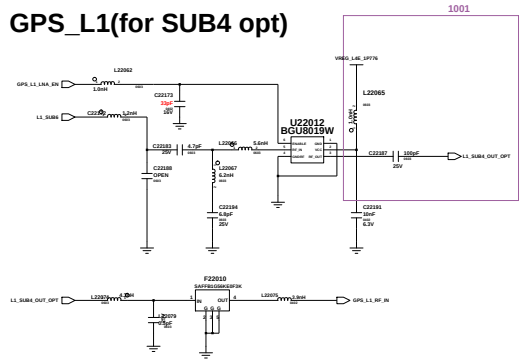
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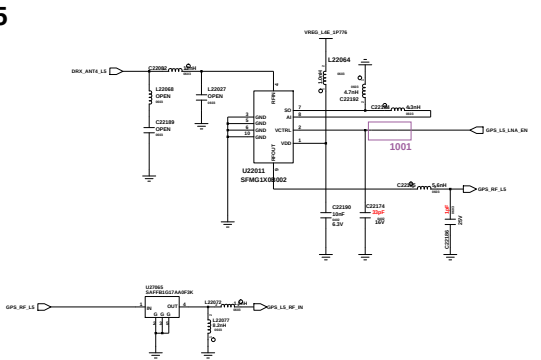
DRX_ANT



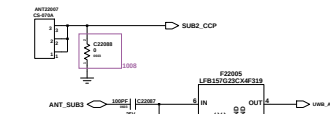
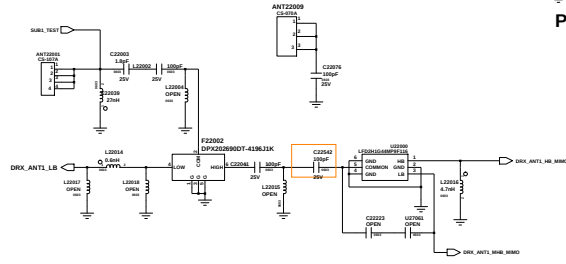
GPS_L1(for SUB4 opt)



GPS_L5

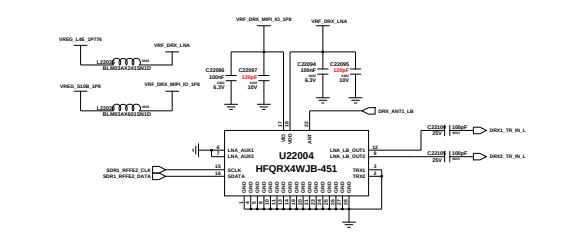


SUB ANT1_Frame (lb_mhb)

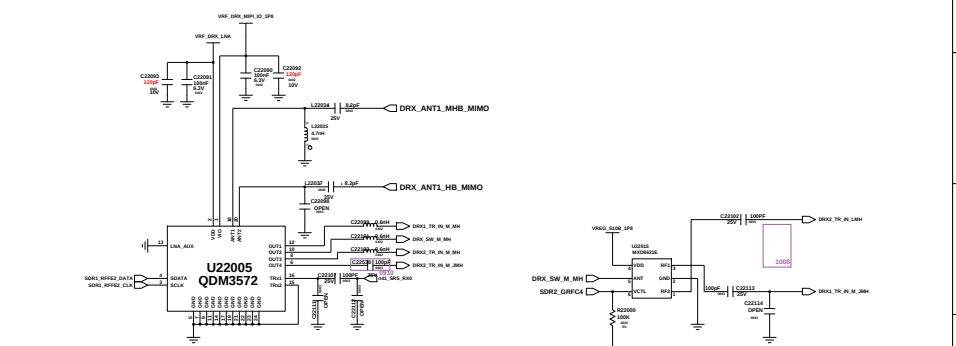


SUB3_Slot (UWB)

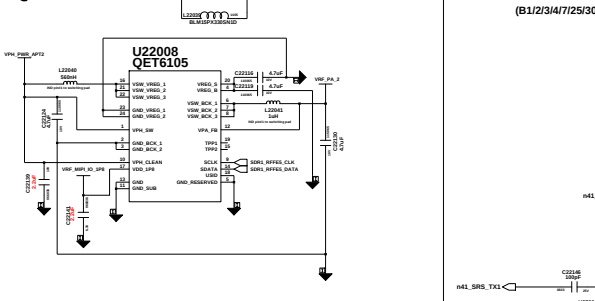
DRX_LB (B5/8/12/13/14/17/18/19/20/26/28/29/71_BC0/10_G850/900)



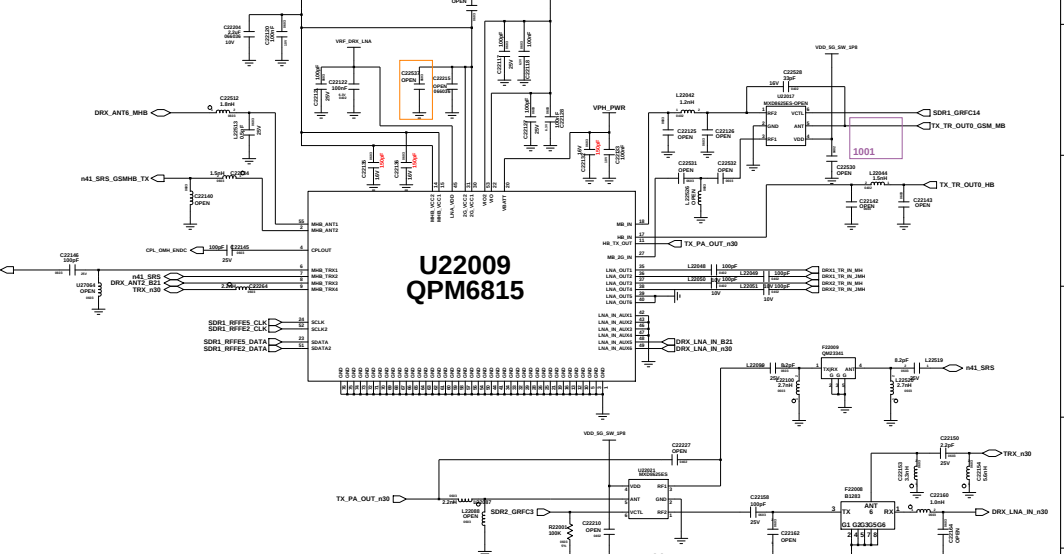
DRX_MHB_2 (B2/4/7/25/30/41/66)



QET6105 #2

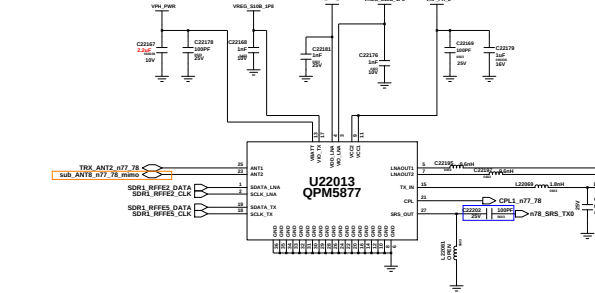


ENDC module (B12/34/72/530/3941/66_BC1_DCS/PCS)

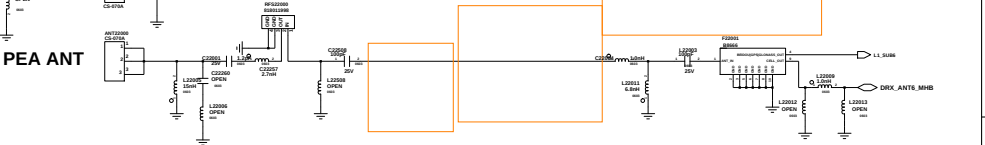


UHB

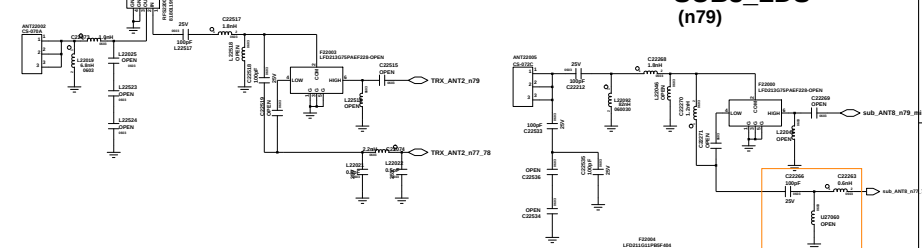
(B48, n77/78)



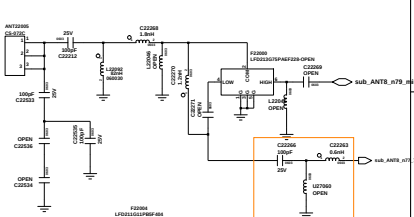
SUB ANT6_Slit (L1_LMB)



SUB ANT2_Slit (UHB_N77_N78)

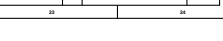
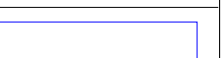
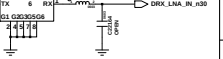
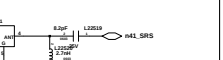


SUB8_LDS (n79)



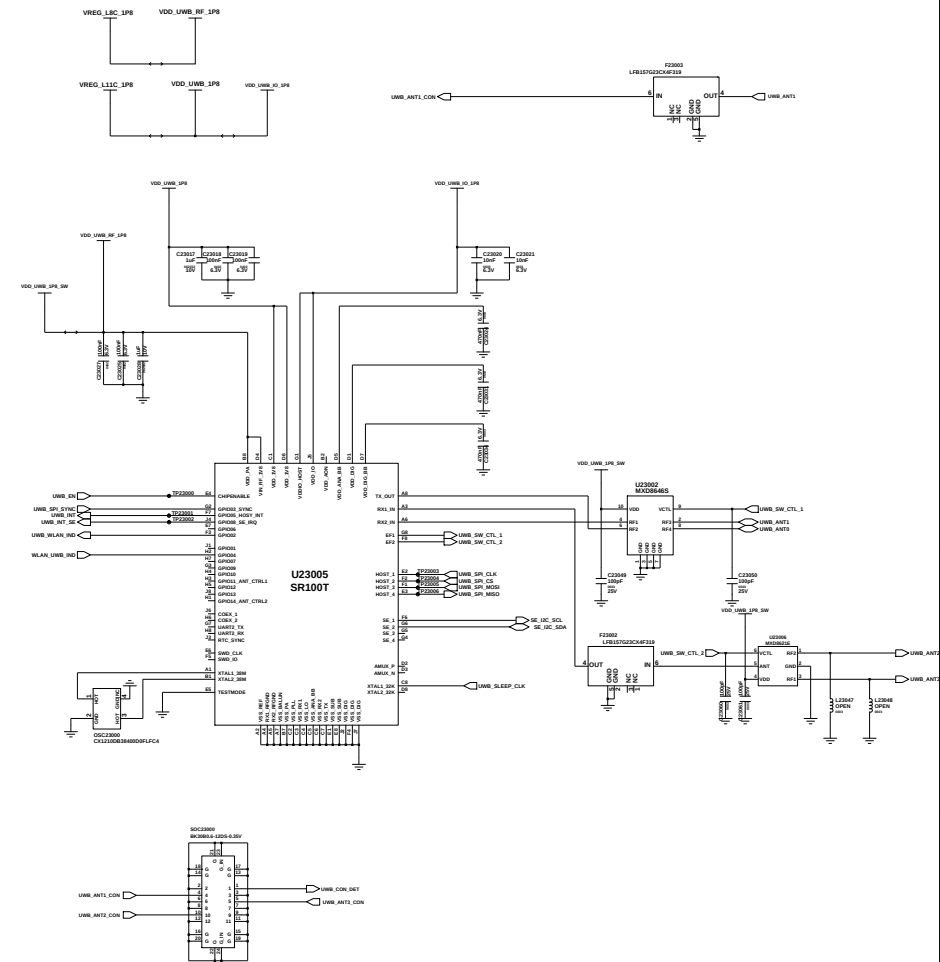
SUB4_Slit (WIFI 2.4G/5G, GPS L5)

CCP

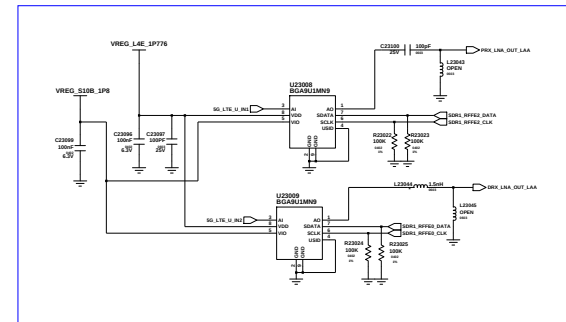




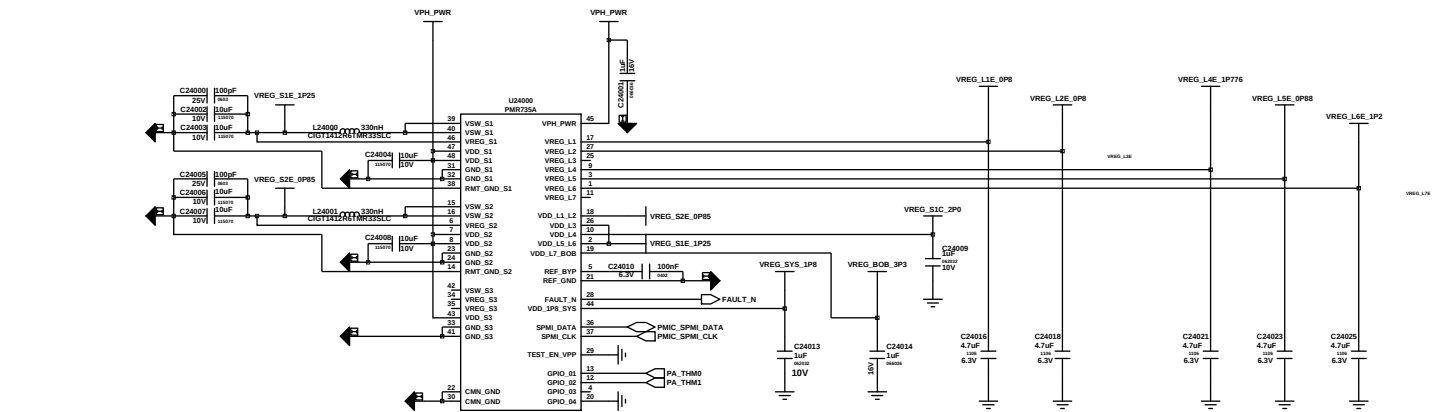
CONFIDENTIAL



UWB Conn.



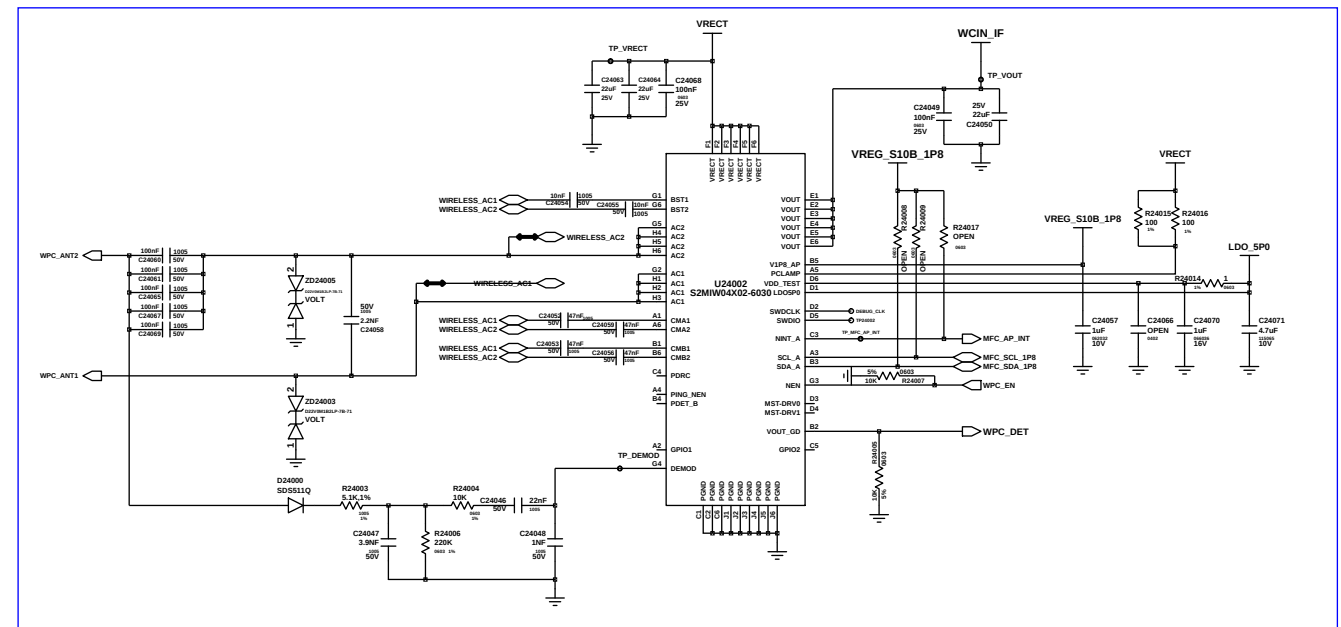
Power



W/C CONNECTOR

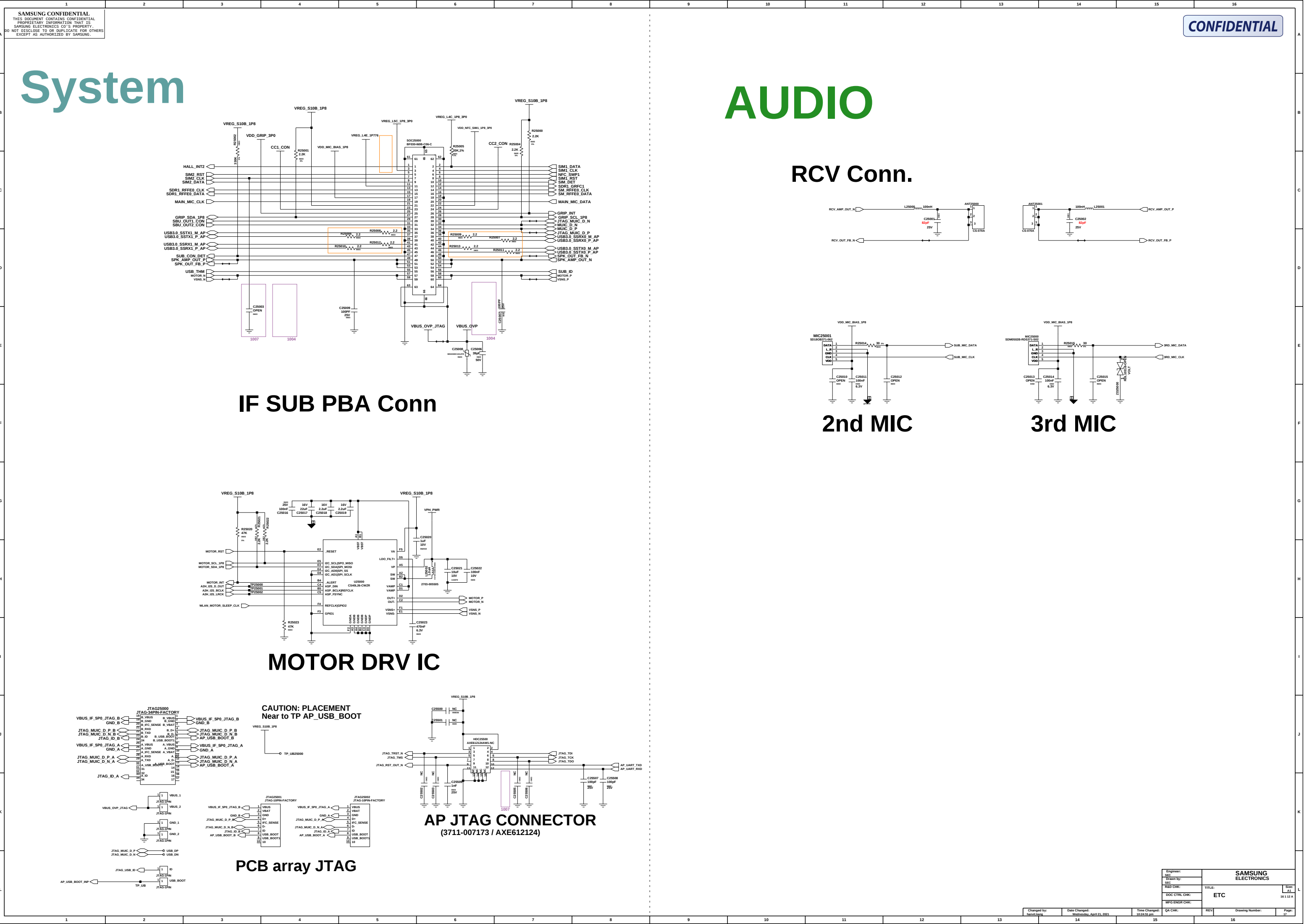


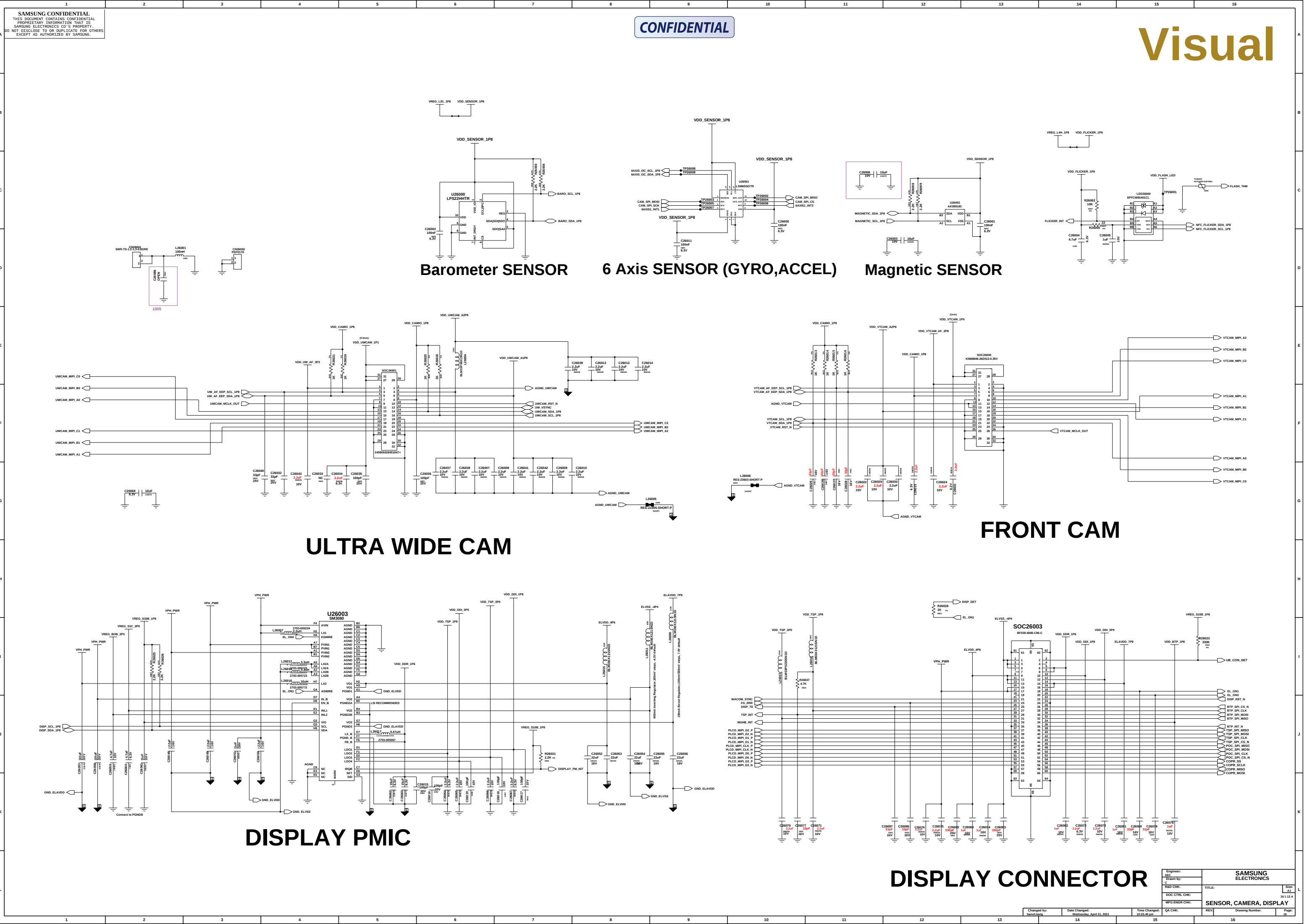
Power

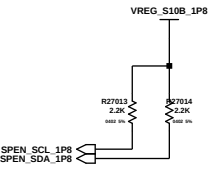
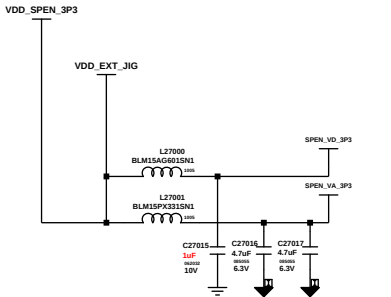
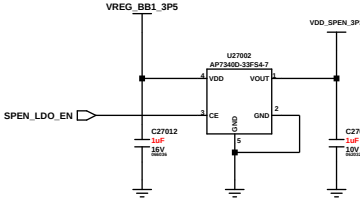


MFC

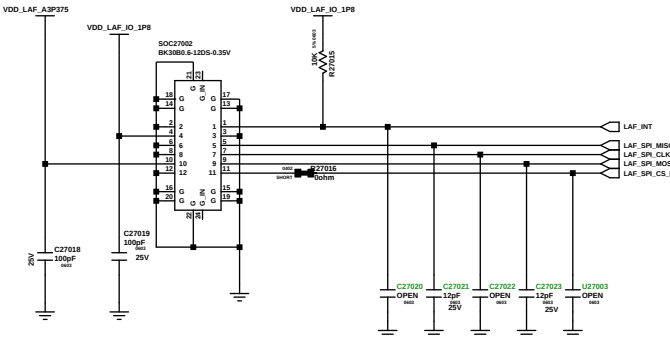
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Drawn by: SEC		
R&D CHK:		TITLE:
DOC CTRL CHK:		ETC
MFG ENGR CHK:		Size: A1 16 1/2 X 12 A





[illegible]

DIGITIZER TP



RANGING sensor

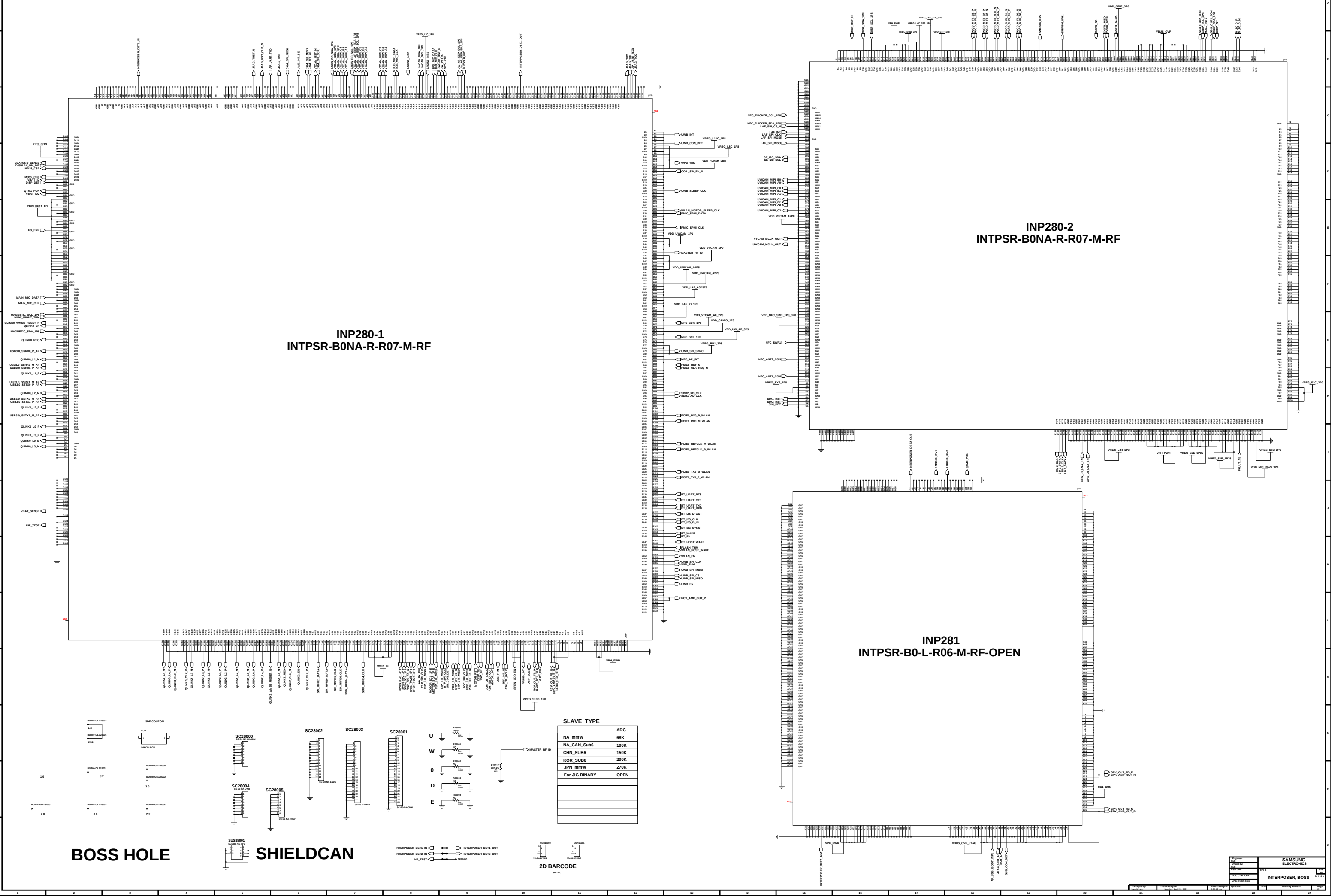
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SEC			
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SEC			
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	U_SM3350		A1
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MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page:
			22
16			

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INTERPOSER

CONFIDENTIAL

Design



BOSS HOLE

SHIELD CAN

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
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A3LSMS908U SUB PBA

sheet01 : ANT
sheet02 : LOGIC

Engineer:			
Drawn By:			
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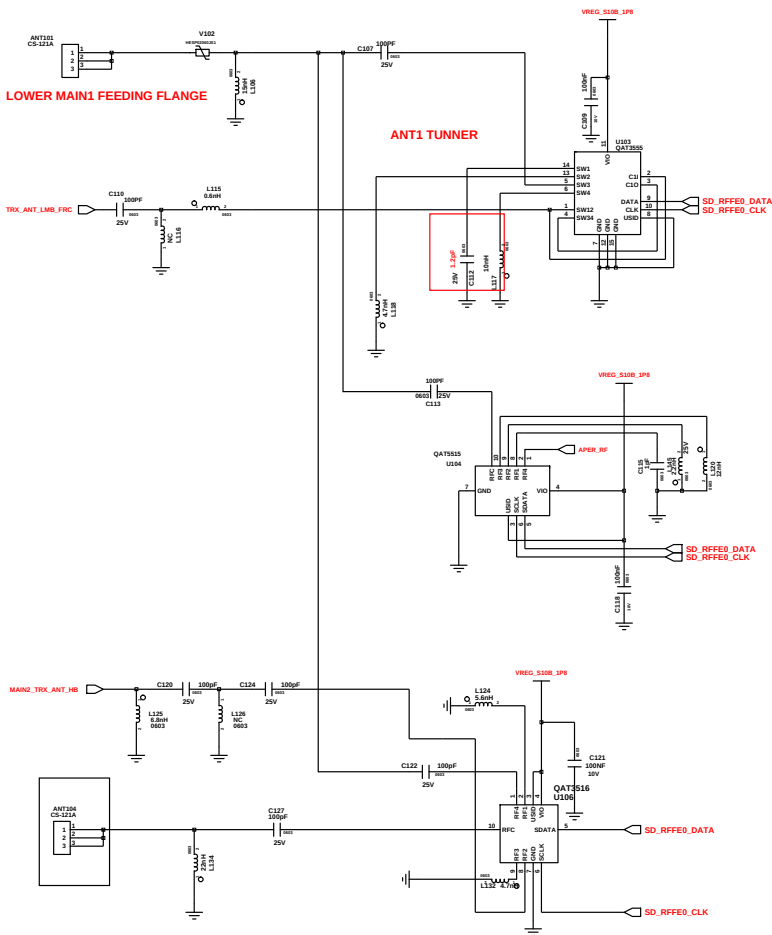
LOWER USB PBA

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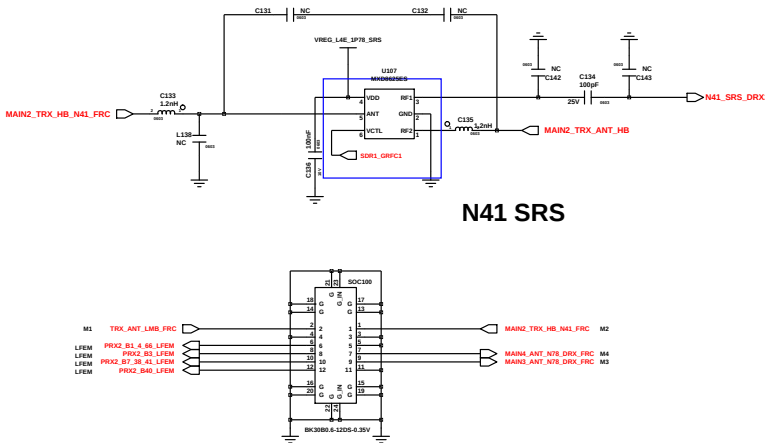
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MAIN ANT

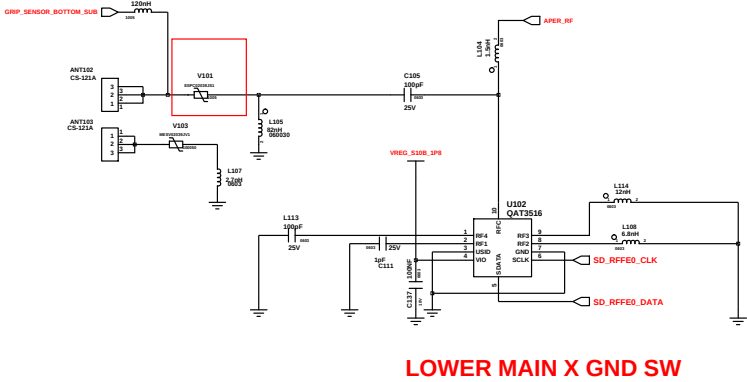
MAIN ANT1-1 LB/MB
(GSM LB/MB, B1/2/3/4/5/8/12/13/17/18/19/20/25/26/28,
TDD 34/39)



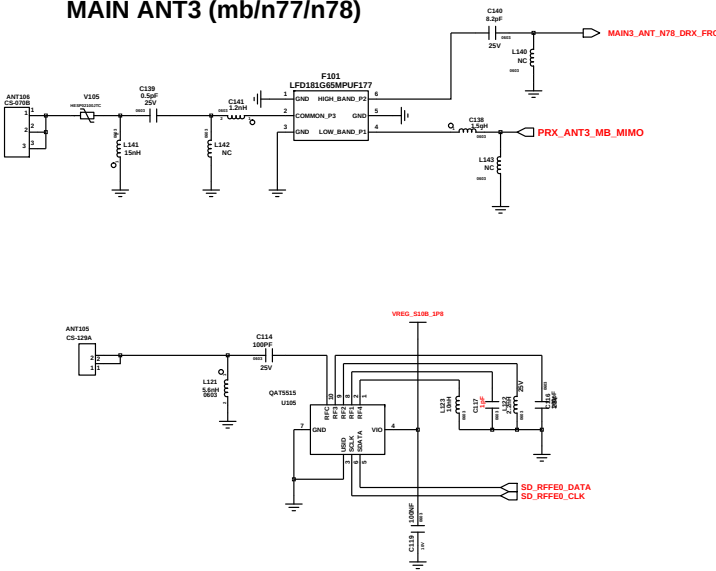
MAIN ANT2(HB/n77/n78)



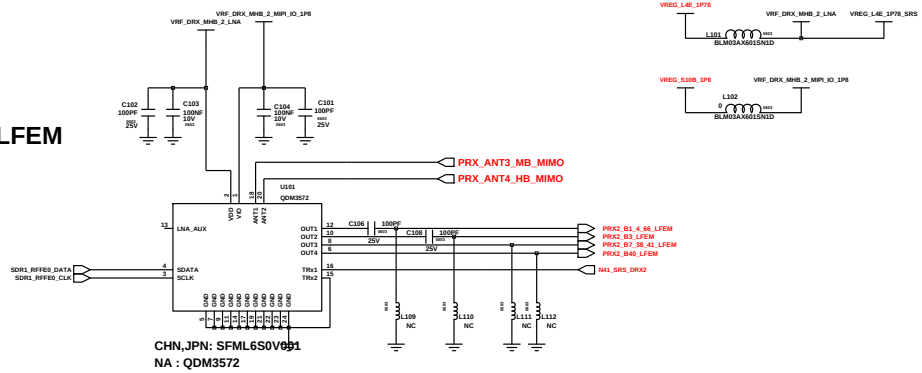
RF Connector



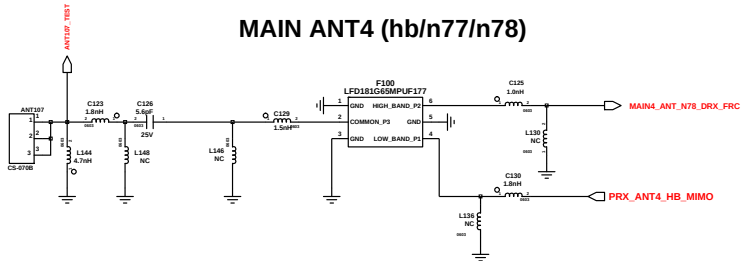
MAIN ANT3 (mb/n77/n78)



LFEM



MAIN ANT4 (hb/n77/n78)



etc.

INSIK MARK



NA
JPN
CHN
GLB
GLB_RD

CCP

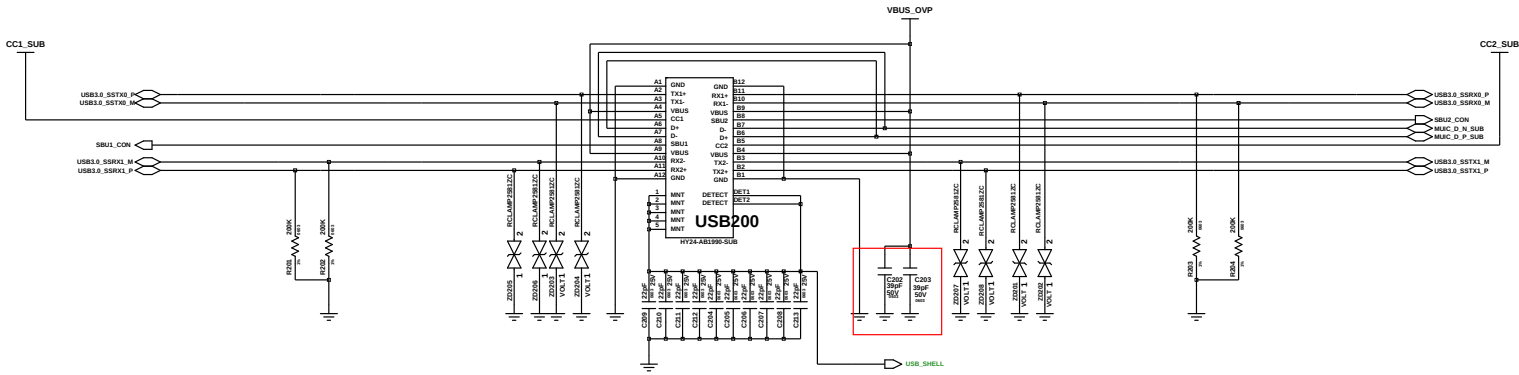
BOTHHOLE

LOWER USB PBA

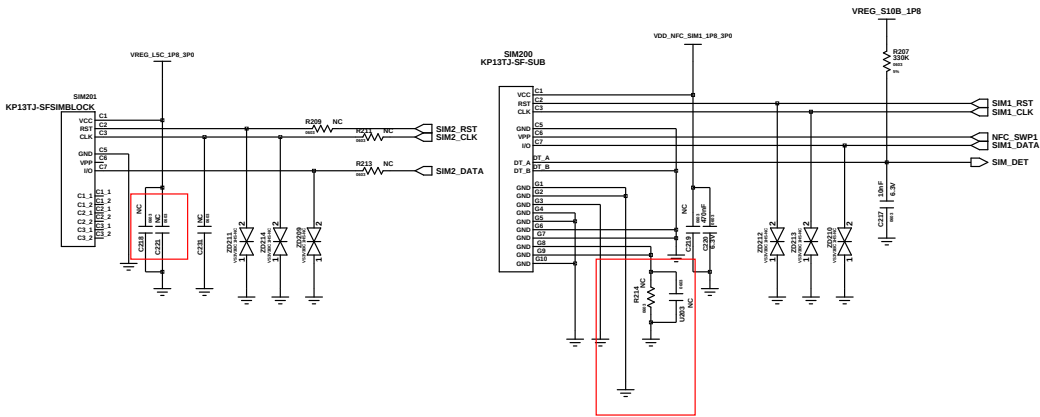
CONFIDENTIAL

USB / SIM

USB TYPE C CONNECTOR

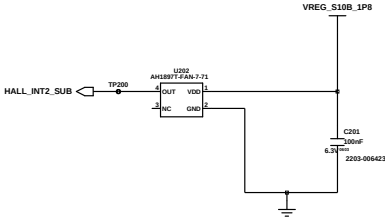


Stacked Dual SIM SOCKET

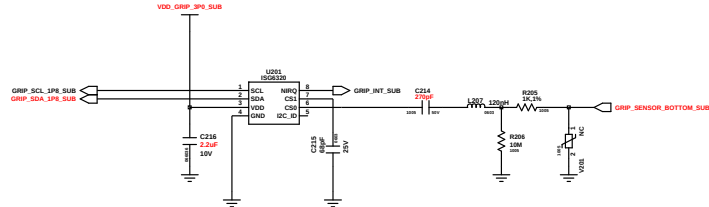


SENSOR

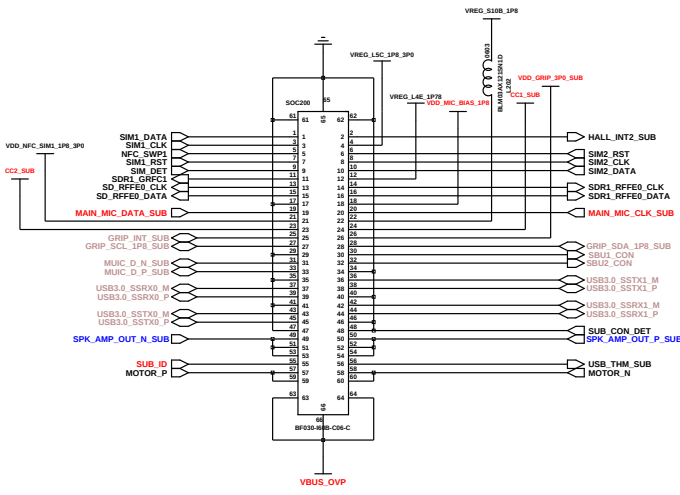
HALL SENSOR



GRIP SENSOR



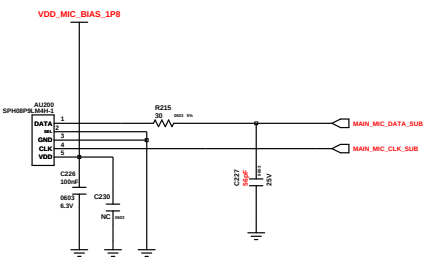
BtoB CON



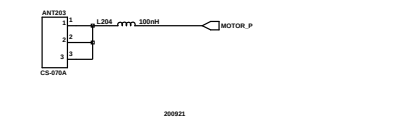
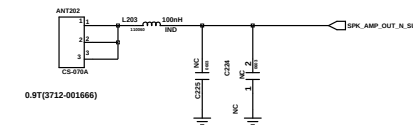
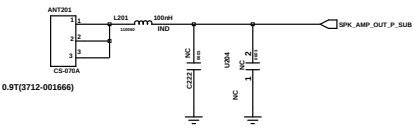
SUB PCB IF CONNECTOR

AUDIO

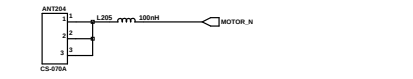
MAIN MIC



SPK CONTACT

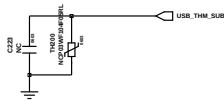


MOTOR conn.

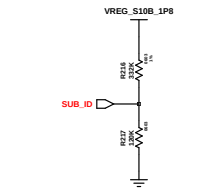


POWER

USB/BATTERY THERMISTOR



SUB VERSION



ADC RANGE	TYPICAL VALUE	ID	EXT_PU	EXT_PD	B0
0 ~ 600	480	0	332K	120K	NA(S908U) NA_CAN
601 ~ 900	720	4	270K	180K	CHN
901~1200	1080	5	180K	270K	Global
1201 ~ 1400	1320	6	120K	332K	JPN
1401 ~ 1560	1480	7	100K	470K	Global_RD