

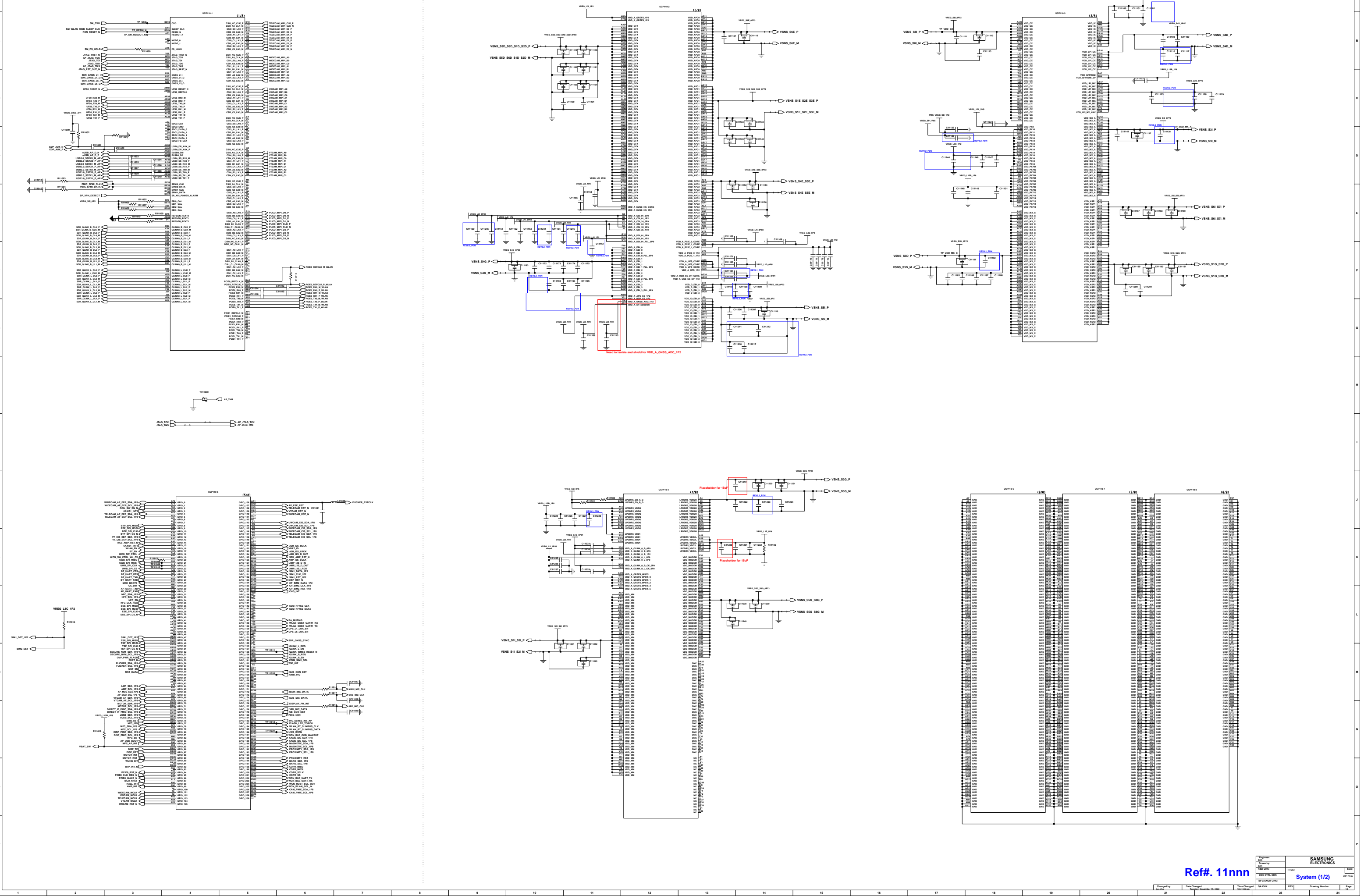
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	<div><div>SAMSUNG CONFIDENTIAL THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION THAT IS SAMSUNG ELECTRONICS CO.'S PROPERTY. DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS EXCEPT AS AUTHORIZED BY SAMSUNG.</div><div><div>SM-S921U REV0.6</div><div>SM-S921U Common</div><div>S_AP PCB part</div><div>2023. 10. 06</div></div></div>															
B																
C																
D																
E																
F																
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	1	2	3	4	5	6	7	8	9	10	11	12	Friday	14	15	16

SM8650

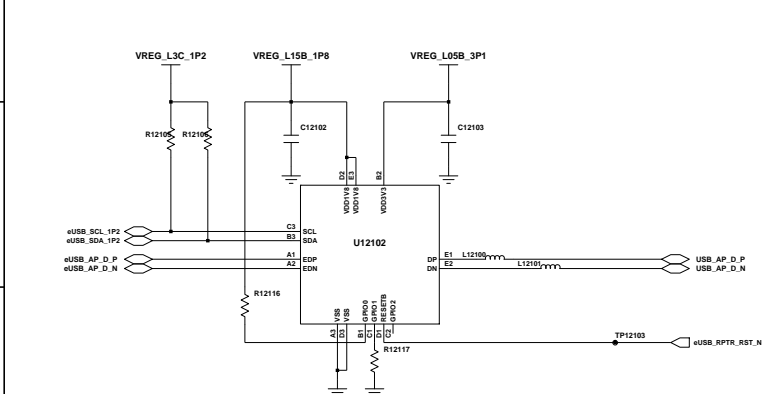
(IO, CONTROL)

SM8650

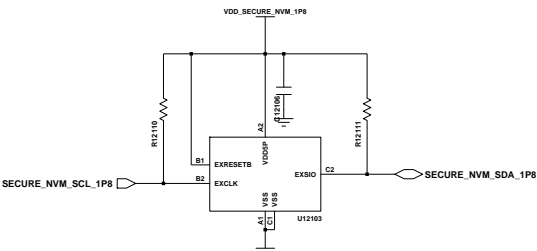
(POWER decap, GND)



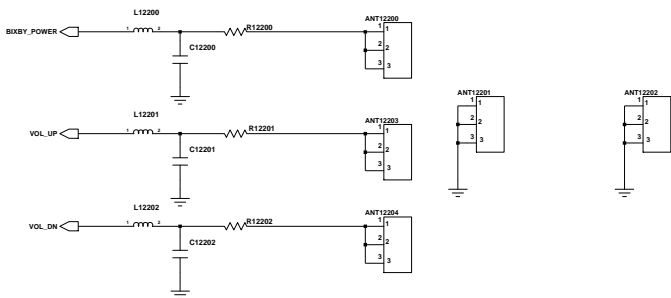
Ref#. 11nnn



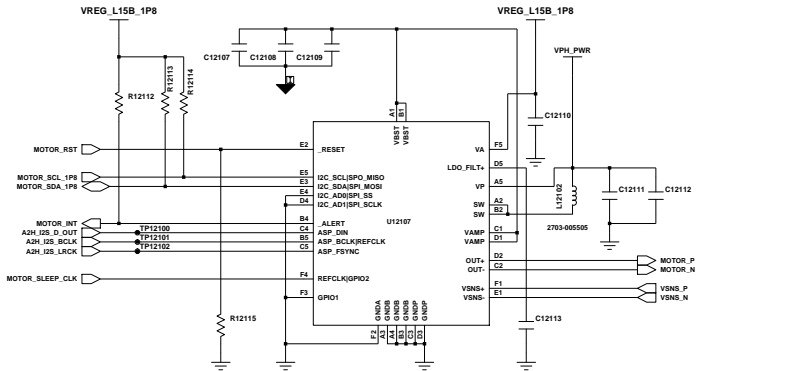
eUSB REPEATER
NEW ITEM



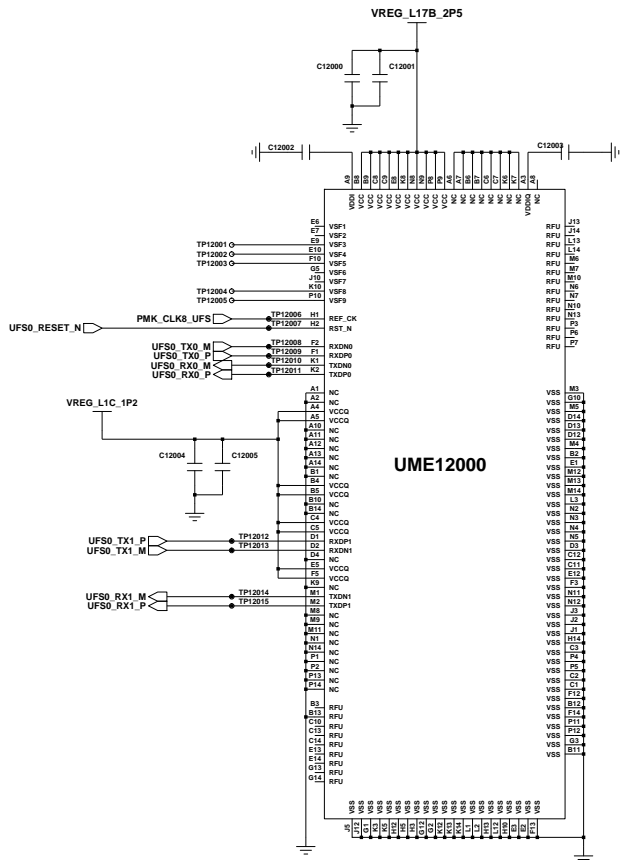
SECURE NVM
NEW ITEM



Vol + Power key

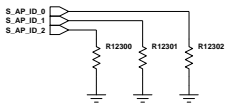


MOTOR DRV IC



UFS 3.1 128
UFS 4.0 256

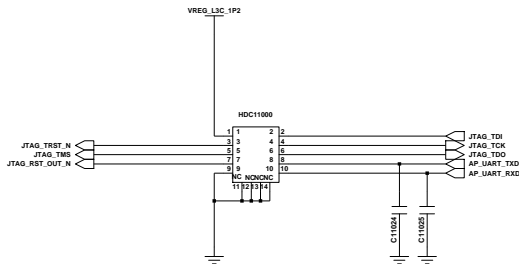
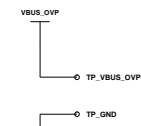
S_AP_ID



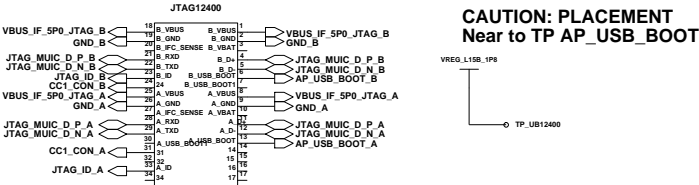
S_AP PBA table

ID	ID_2	ID_1	ID_0	
0	L	L	L	Not Used
1	L	L	H	Not Used
2	L	H	L	CHN_SUB6 , JPN_mmW
3	L	H	H	Not Used
4	H	L	L	Not Used
5	H	L	H	KOR_SUB6
6	H	H	L	EUR_SUB6 , Global_SUB6
7	H	H	H	NA_mmW ,NA_CAN_Sub6

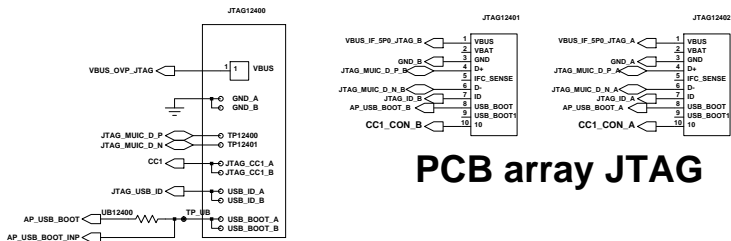
FOR JIG



AP JTAG CONNECTOR

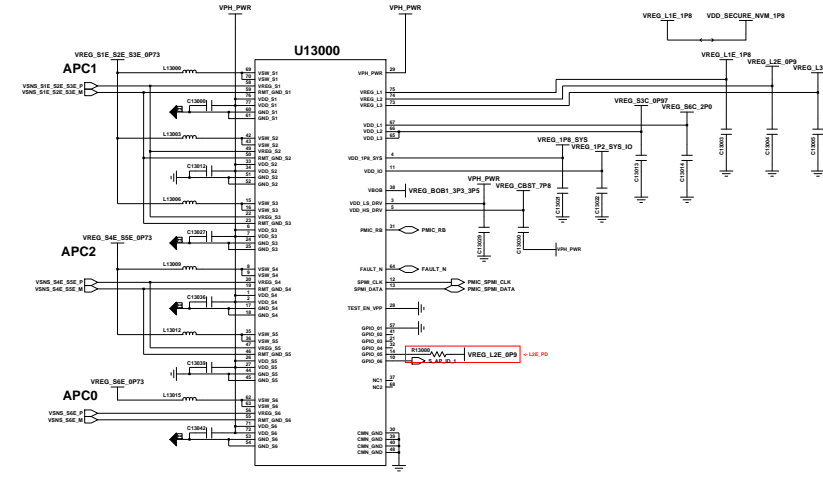


CAUTION: PLACEMENT
Near to TP_AP_USB_BOOT



PCB array JTAG

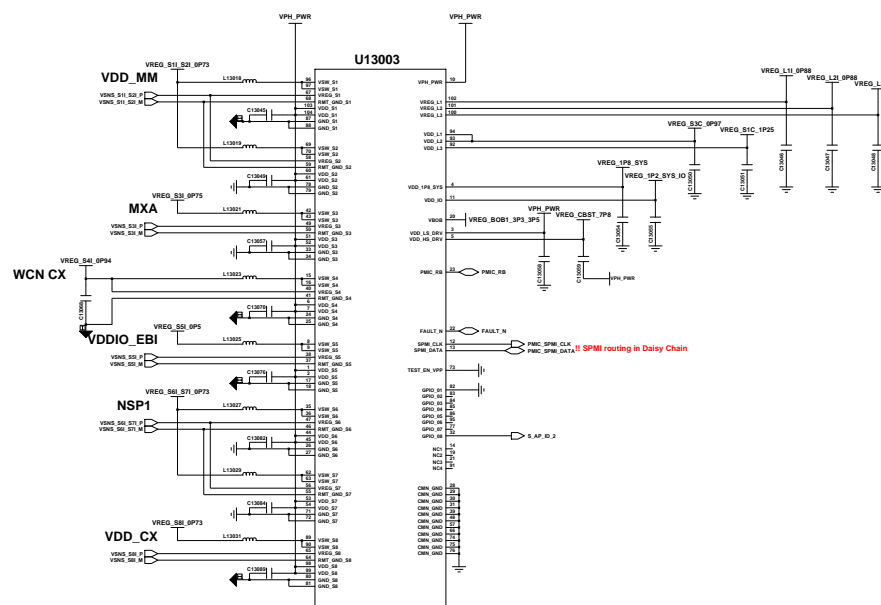
Ref#. 12nnn

[illegible]

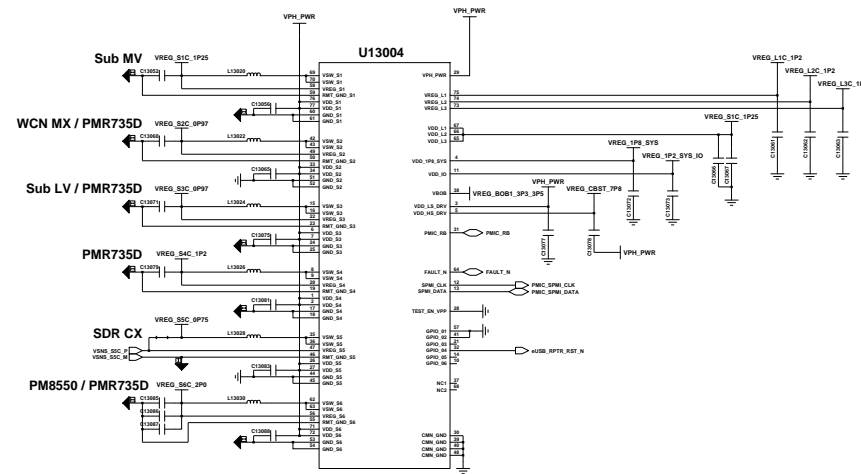
PM8550VS_D

PM8550VS_E

Extra Bulk cap

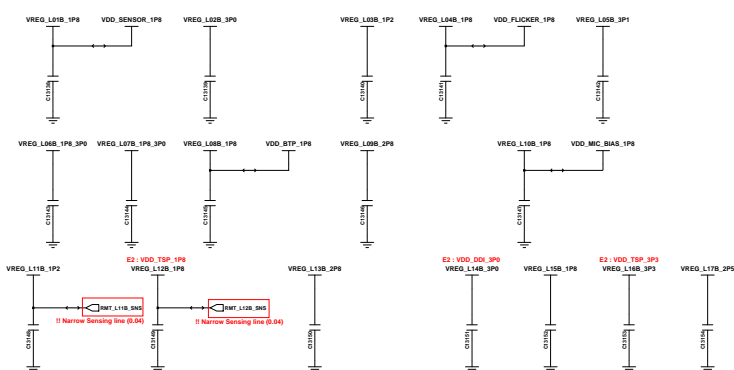


PM8550VE_I



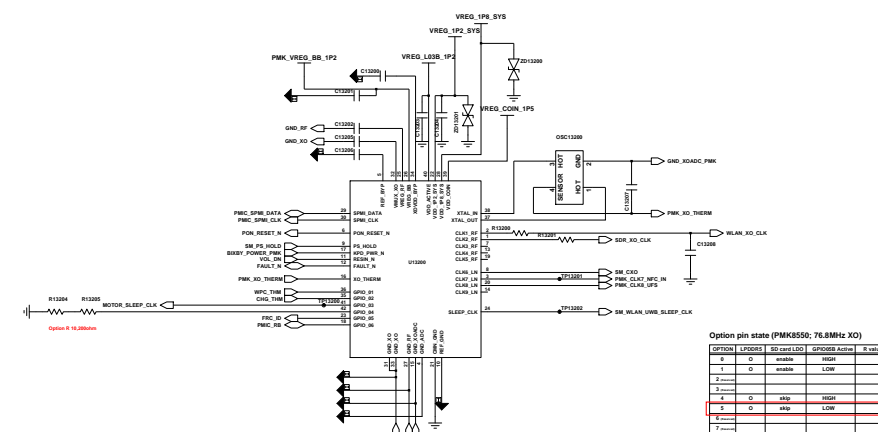
PM8550VS_C

PM8550

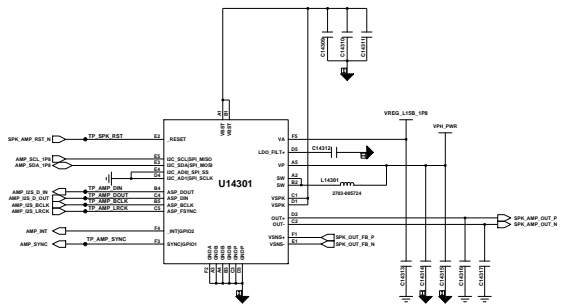
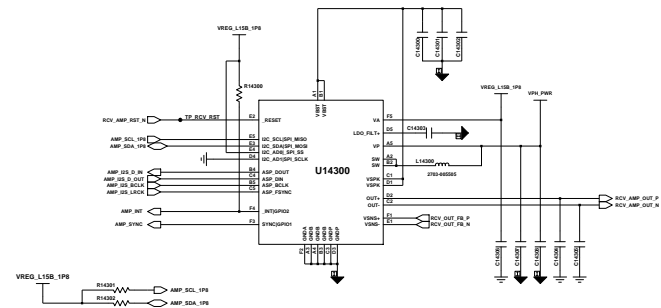


PM8550 LDO OUT CAP

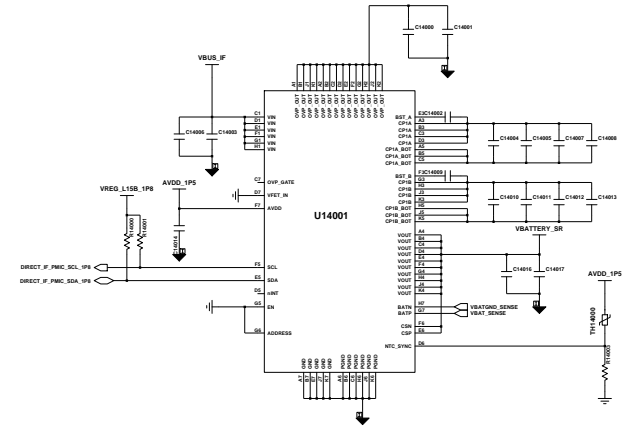
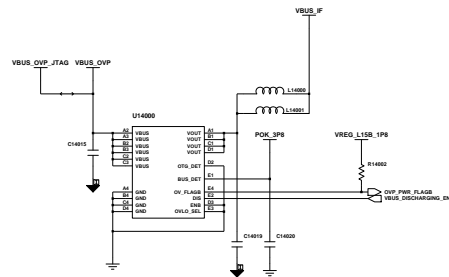
PMK8650



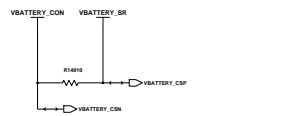
PMK8650



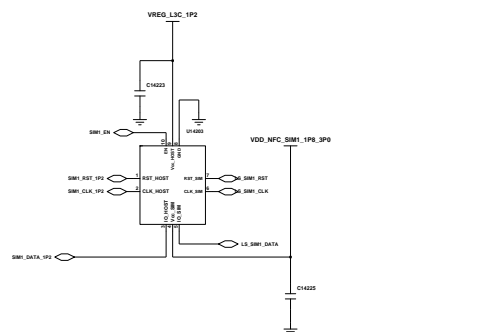
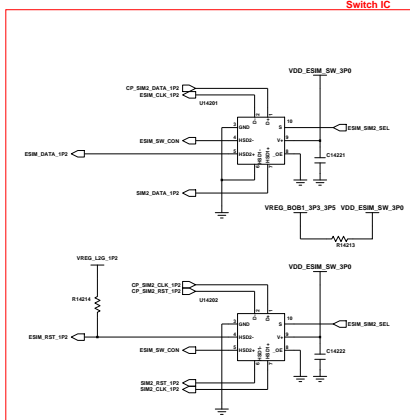
OVP LS



Battery Sensing



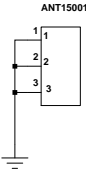
MFC



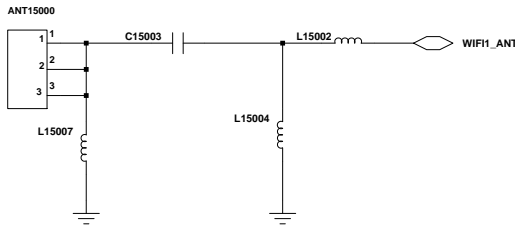
SIM Level Shifter

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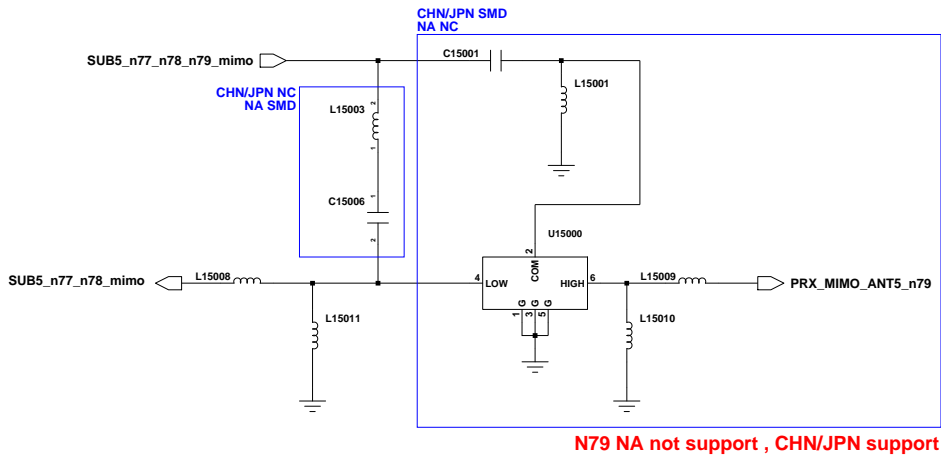
SUB6 WIFI2_2.4G



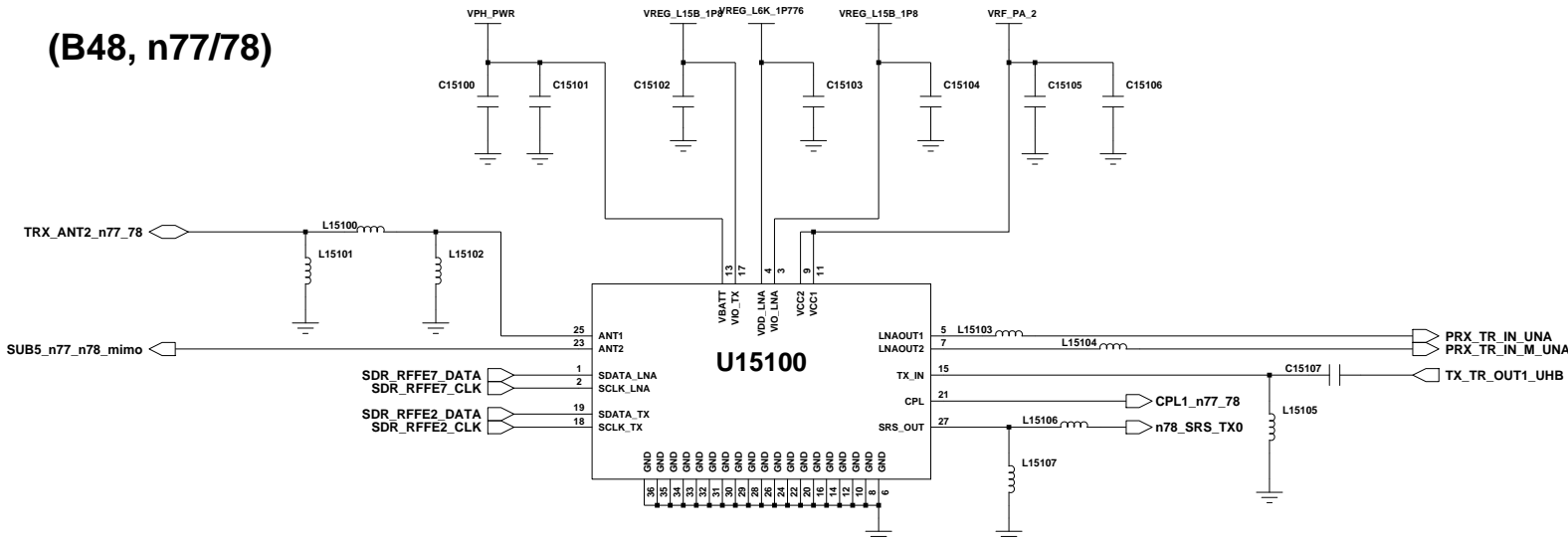
CCP



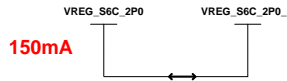
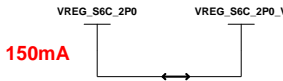
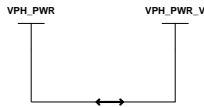
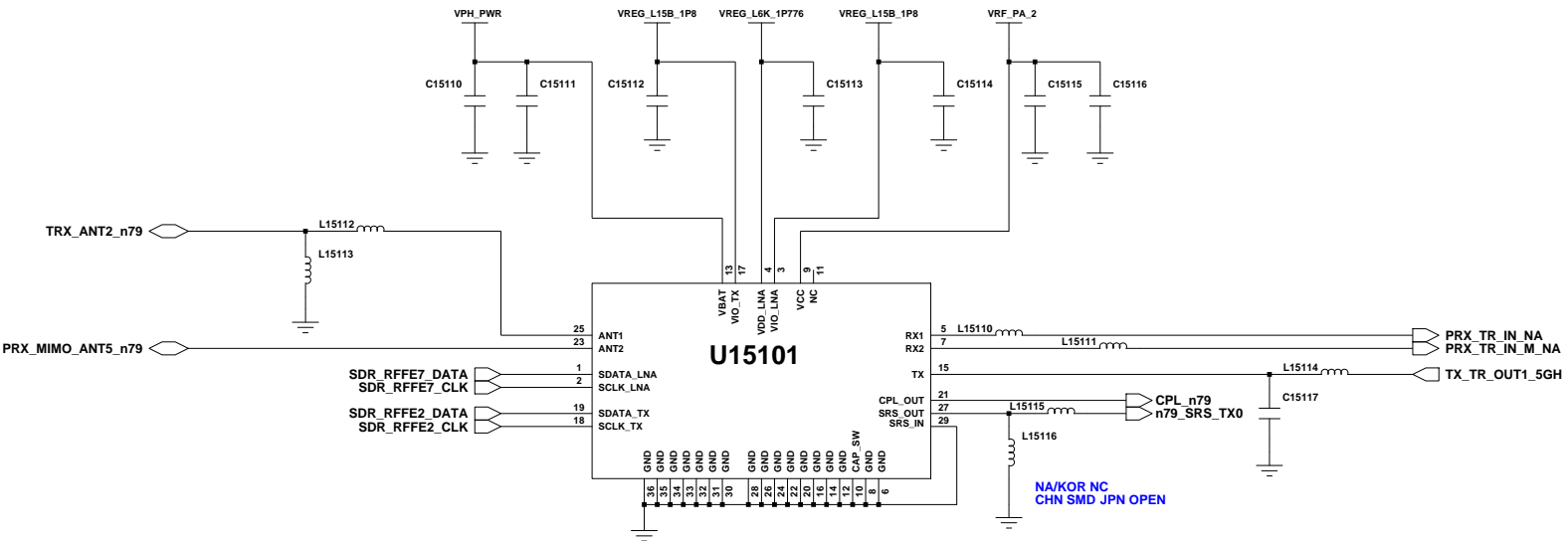
SUB5 (n79_UWB)



UHB (B48, n77/78)



UHB (n79) NA/KOR NC CHN/JPN SMD



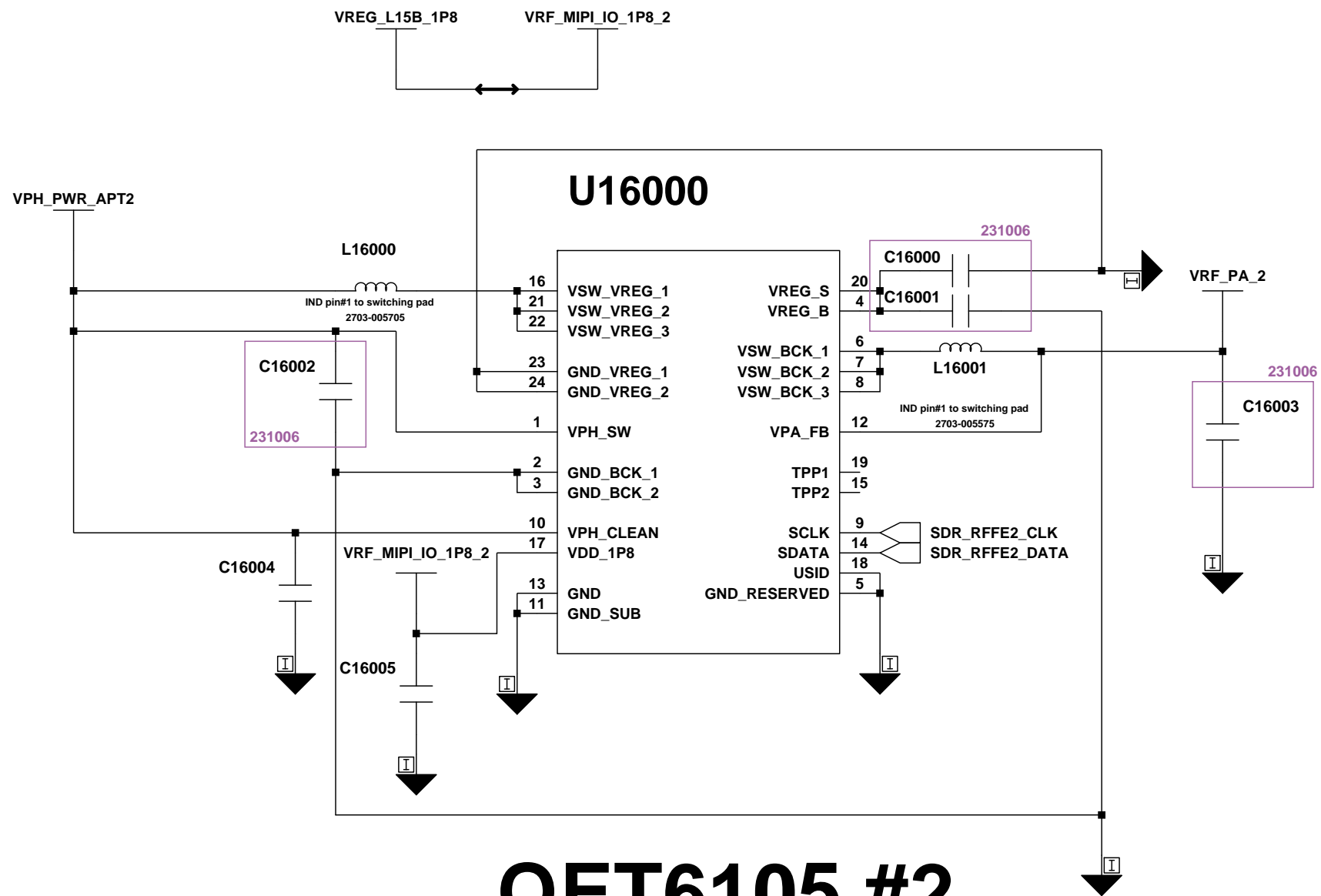
mmW module power cap

Ref#. 15nnn

Engineer: SEC	SAMSUNG ELECTRONICS		
Drawn by: SEC	TITLE:		Size:
R&D CHK:	RF (1/3)		12 1 8 A
DOC CTRL CHK:			
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page:

Changed by: jyz.cho Date Changed: Wednesday, January 11, 2023 Time Changed: 5:41:28 pm

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QET6105 #2

REF#. 16nnn

Engineer: SEC	SAMSUNG ELECTRONICS		
Drawn by: SEC			
R&D CHK:	RF (2/3)		Size: 6 1 4 A TL
DOC CTRL CHK:			
MFG CTRL CHK:			
QA CHK:	REV:	Drawing Number:	Page: 15

1	2	3	4	5	6	7	8	9	10	11	12
<div><div>SAMSUNG CONFIDENTIAL THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION THAT IS SAMSUNG ELECTRONICS CO.'S PROPERTY. DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS EXCEPT AS AUTHORIZED BY SAMSUNG.</div></div>											
A											A
B											B
C											C
D											D
E											E
F											F
G											G
H											H
1	2	3	4	5	6	7	8	9	10	11	12

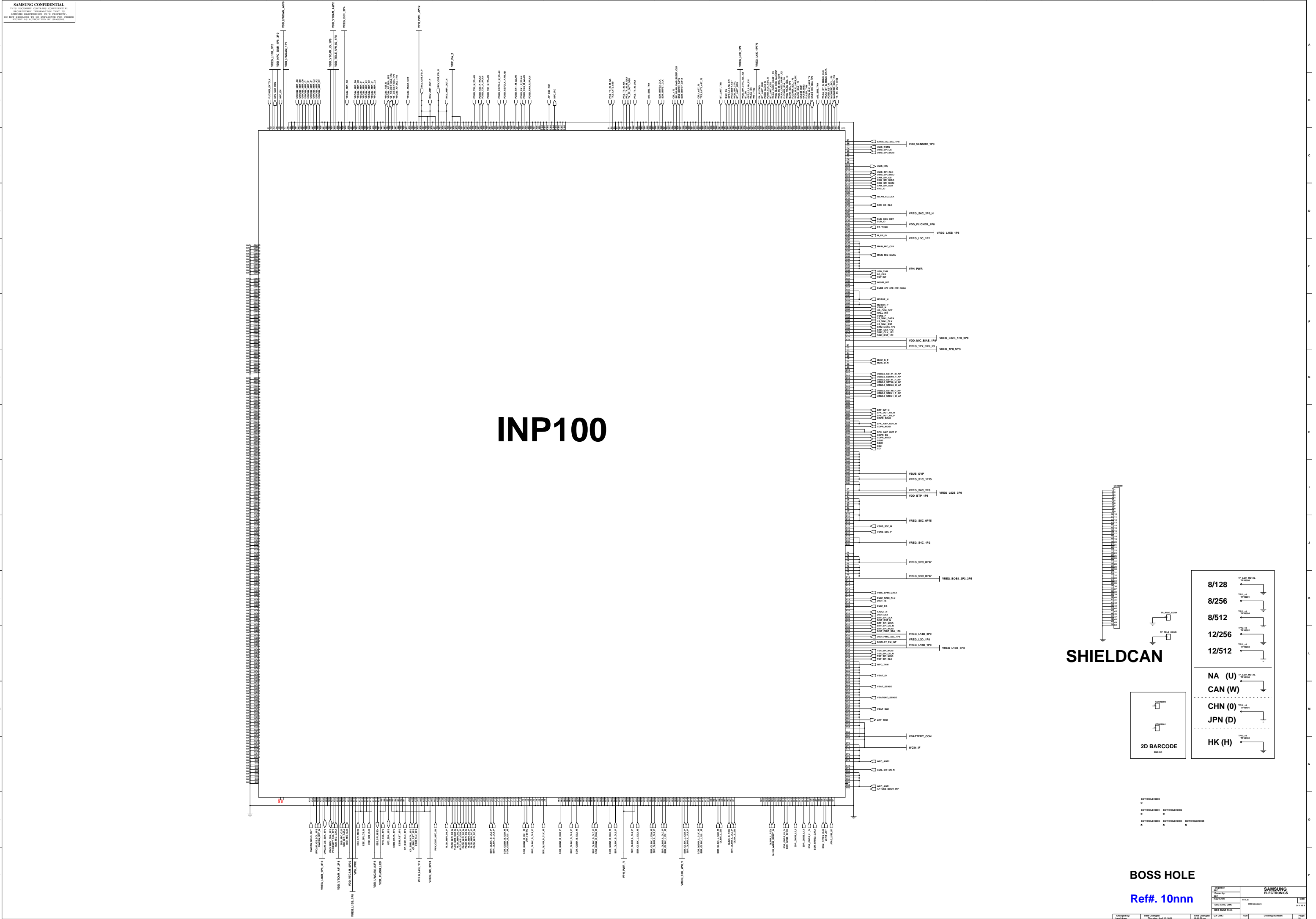
Ref#. 17nnn

Engineer: SEC	<div>SAMSUNG ELECTRONICS</div>		
Drawn by: SEC			
R&D CHK:			
DOC CTRL CHK:			
MFG ENGR CHK:	TITLE: <div>RF (3/3)</div>		
QA CHK:	REV:	Drawing Number:	Page: 16

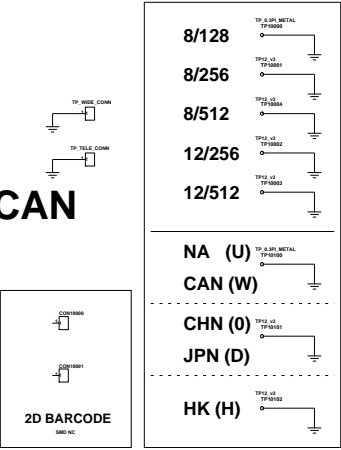
1	2	3	4	5	6	7	8	9	10	11	12
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A											A
B											B
C											C
D											D
E											E
F											F
G											G
H											H
1	2	3	4	5	6	7	8	9	10	11	12

Ref#. 19nnn

Engineer: SEC	<div>SAMSUNG ELECTRONICS</div>	
Drawn by: SEC		
R&D CHK:		
DOC CTRL CHK:		
MFG ENGR CHK:	Visual (disp.)	
QA CHK:		
REV:	Drawing Number:	Page: 18




SHIELDCAN



BOSS HOLE

Ref#. 10nnn

Engineer: SEC			
Drawn by: SEC			
READ CHK:	TITLE:	Scale:	
	HW Structure	24 1 16 A	
DGC CTRL CHK:			
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page: 1/1

CON10000

INP 100



BOTH HOLES 10005
BOTH HOLES 10002
BOTH HOLES 10003

①
①
①

©

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SM-S921U Common

CON10000

INP 100



①
①
①

80TH HOLE 10000 L10002

C

SM-S9210 Common

JTAG12400

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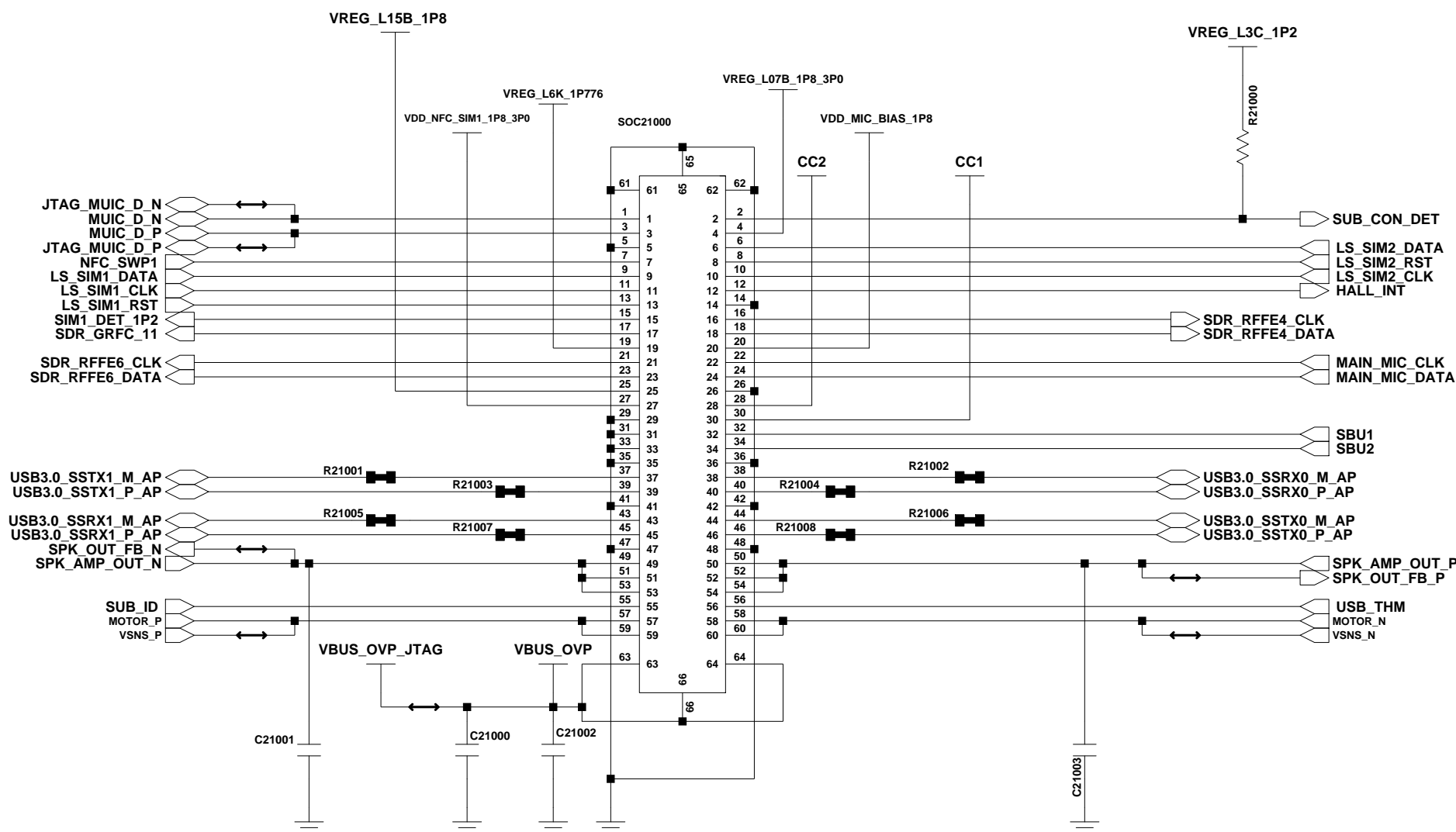
SM-S921U Common

M_RF PCB part

2023.10.19

TG	System		Power Audio		RF			Visual (CAM)	Visual (Disp.) Visual (Sensor)	HW Structure
Ref#.	21nnn	22nnn	23nnn	24nnn	25nnn	26nnn	27nnn	28nnn	29nnn	20nnn
Contents	IF Sub PBA	PCB ID JTAG	BATT conn. DCM leakage WPC conn.	Audio AMP 2nd/3rd MIC RCV cont.	ANT mmW ANT LFEM	LPAMID TRCV RF PMIC QET	BT/WiFi GPS UWB	Flash UWCAM VTCAM	Sensor Display PMIC Display conn.	Interposer Shieldcan
sheet	sheet21	sheet22	sheet23	sheet24	sheet25	sheet26	sheet27	sheet28	sheet29	sheet20

Engineer:		
Drawn by:		
Rev. Chk:	TITLE:	Size:
Doc. Ctrl. Chk:		
Mfg. Engr. Chk:		



IF SUB PBA Conn

Ref#. 21nnn

Engineer: SEC		<div>SAMSUNG ELECTRONICS</div>			
Drawn by: SEC					
R&D CHK:				TITLE:	Size:
DOC CTRL CHK:				<div>System (1/2)</div> <div>8 1 6 A TL</div>	
MFG ENGR CHK:					
QA CHK:	REV:	Drawing Number:		Page: 20	

M_RF PBA table

ID	M_RF PBA type	Value	SEC CODE
0	NA_mmW	5.1K	2007-007698
1	NA_CAN_Sub6	10.0K	2007-007142
2	CHN_SUB6	15.0K	2007-007132
3	Global_SUB6	20.0K	2007-007312
4	JPN_mmW	30.0K	2007-008275
5	KOR_SUB6	39.0K	2007-007134
6	EUR_SUB6	82.0K	2007-007590
7	N/A	100.0K	2007-007107



M_RF_ID



3DF COUPON



2D BARCODE

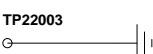
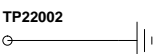
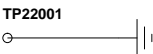
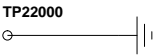
SMD NC

NA (U)

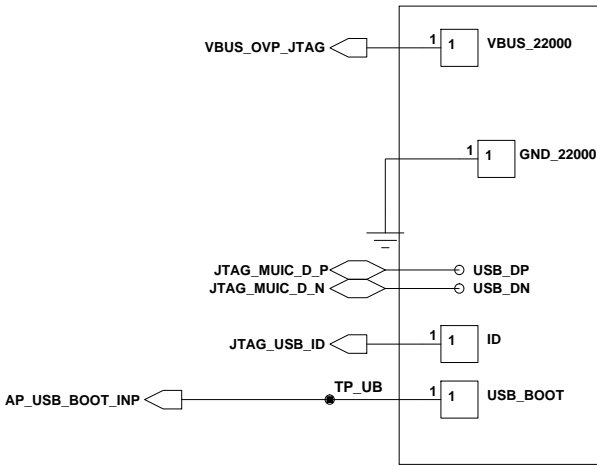
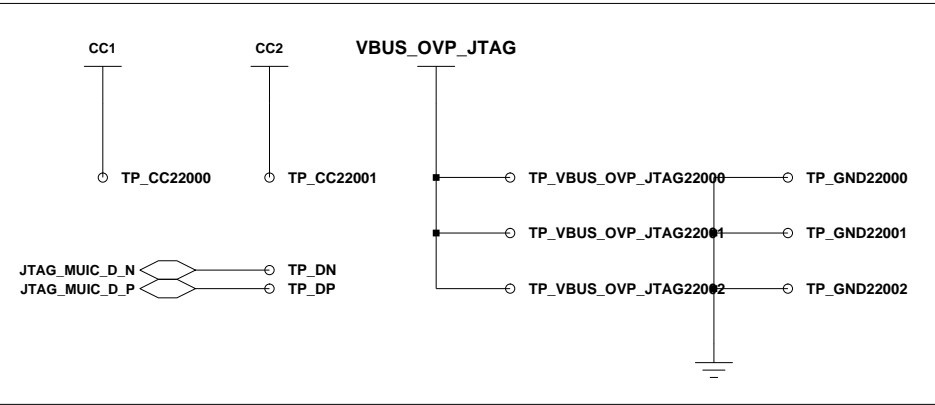
CAN (W)

CHN (0)

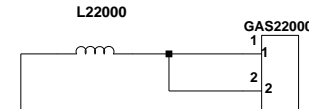
JPN (D)



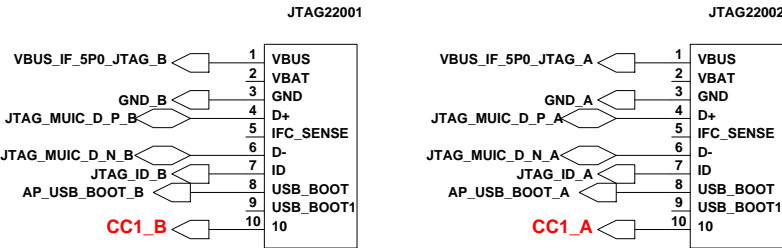
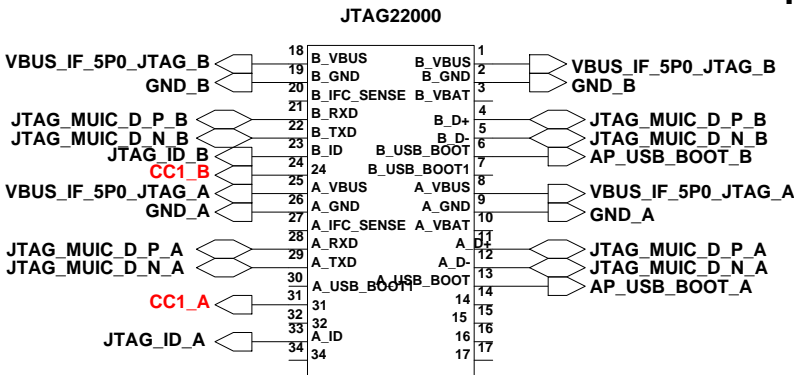
FOR JIG



CAUTION: PLACEMENT
Near to TP AP_USB_BOOT



SMR poron

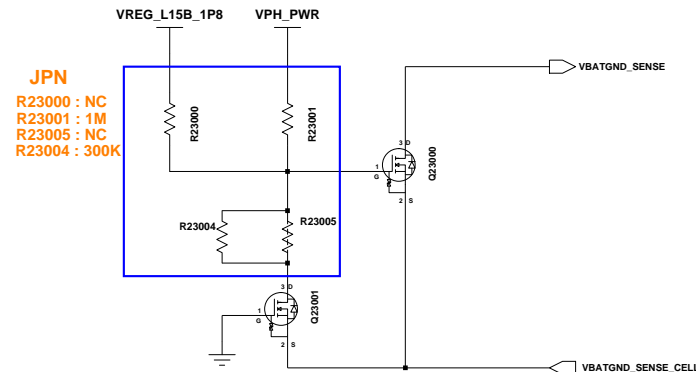
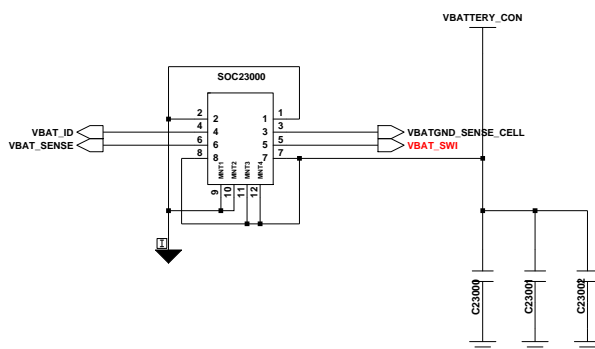


PCB array JTAG

Ref#. 22nnn

Engineer: SEC	SAMSUNG ELECTRONICS		
Drawn by: SEC			
R&D CHK:	TITLE: System (2/2)		Size: 8 1 6 A TL
DOC CTRL CHK:			
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page: 21

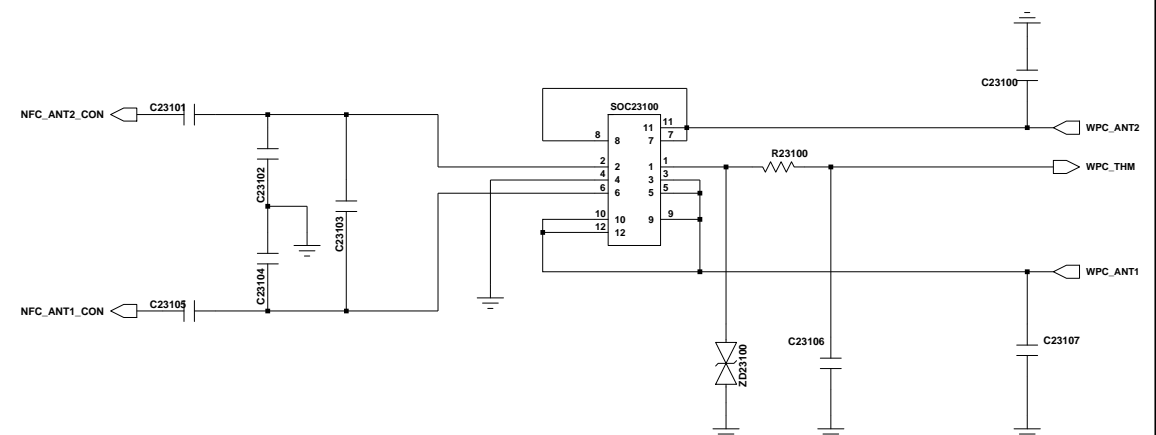
Changed by: jy.r.cho	Date Changed: Wednesday, November 30, 2022	Time Changed: 3:12:10 pm
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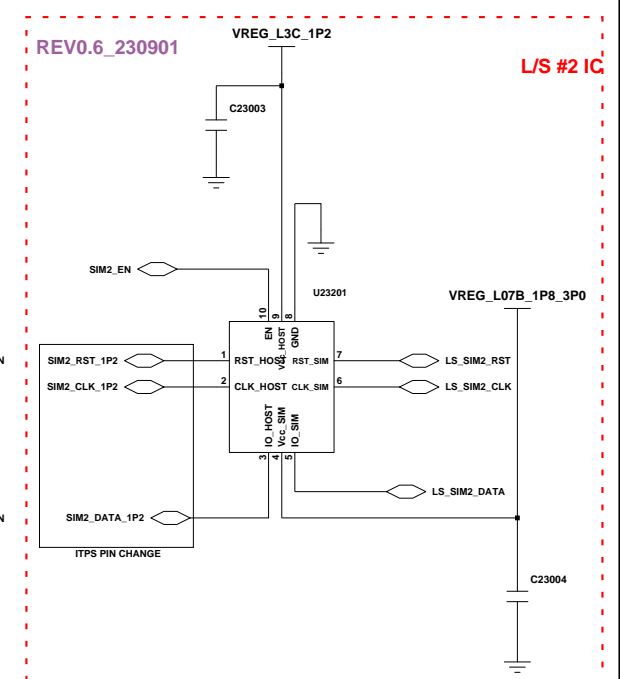
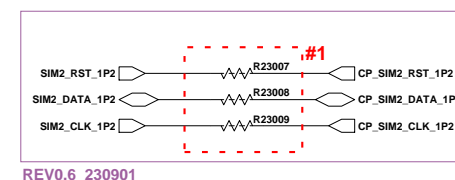
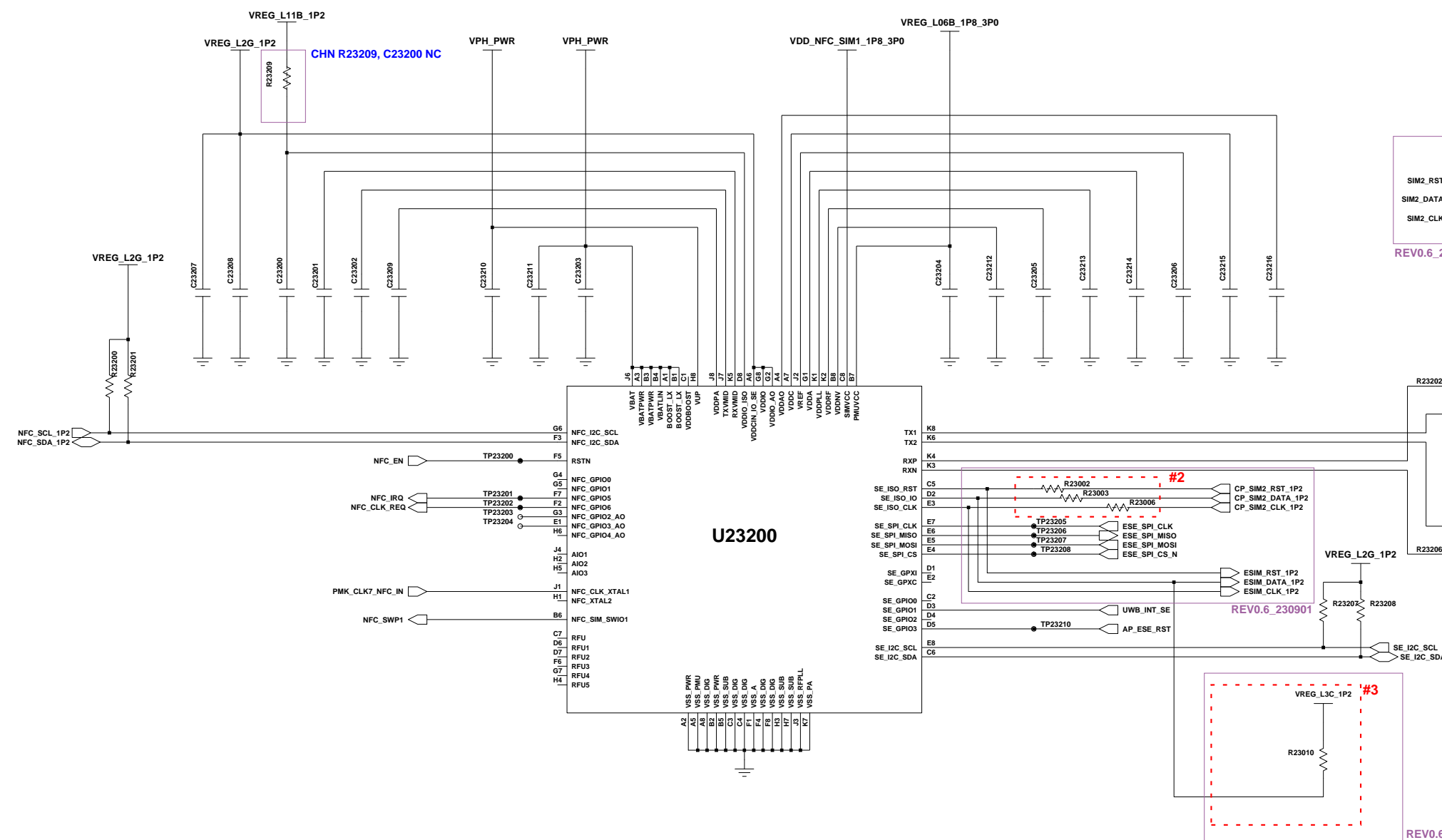
Battery Connector

		NFC IC	#1	#2	#3	L/S #2 IC	
NA/CAN	Nano + eSIM	SN300U	OPEN	SHORT	20K	NC	NA : Bootstrap
CHN	2-Nano	SN300T	SHORT	OPEN	OPEN	SMD	
JPN	Nano + eSIM	SN300P	OPEN	SHORT	20K	NC	

NFC



W/C CONNECTOR



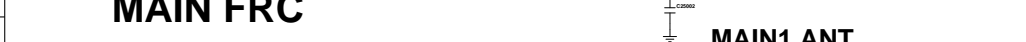
SIM Level Shifter



RCV Conn.

Ref#. 24nnn

Engineer: SEC	<div style="text-align: center;"> SAMSUNG ELECTRONICS </div>		
Drawn by: SEC			
R&D CHK:	TITLE:	Size:	
DOC CYRL CHK:	Power, Audio (2/2)		8 1 6 A TL
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page: 23

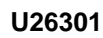
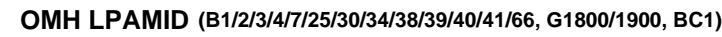


ANT25100 C25101 C25105



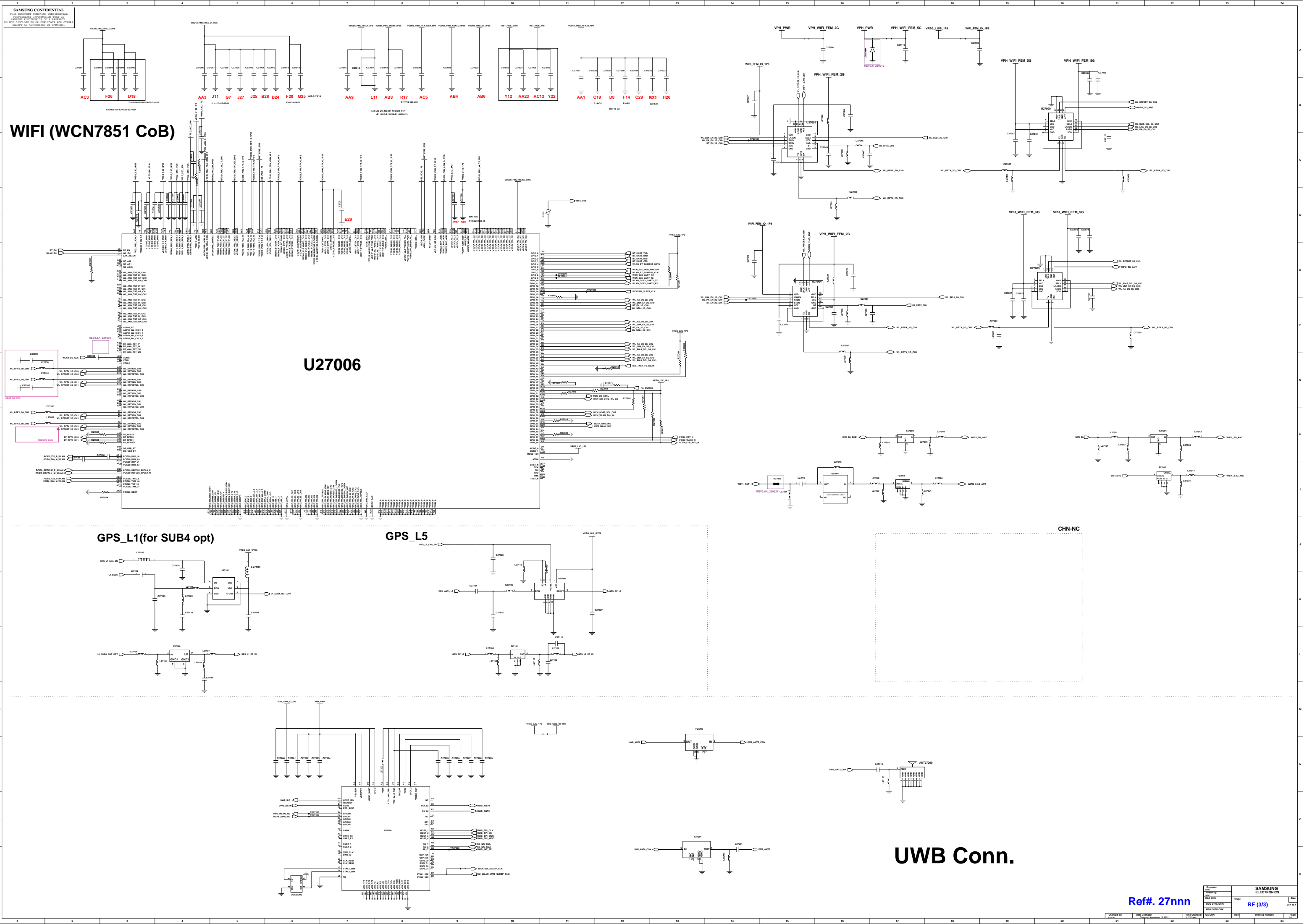
(B5/8/12/13/14/17/18/19/20/26/28/29/71_BC0/10_G850/900)





ET Modulator(QET6105#1)



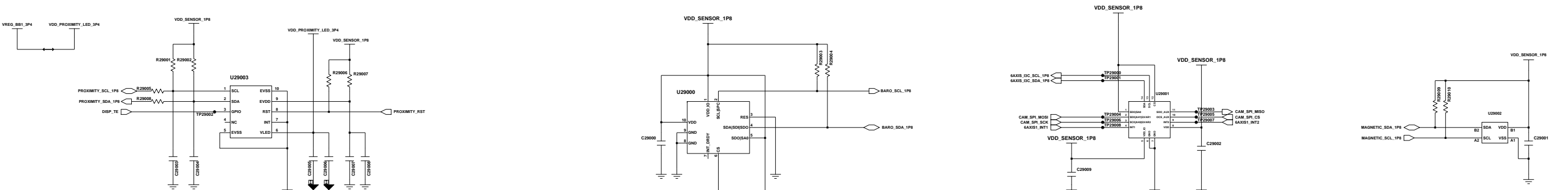


WIFI (WCN7851 CoB)

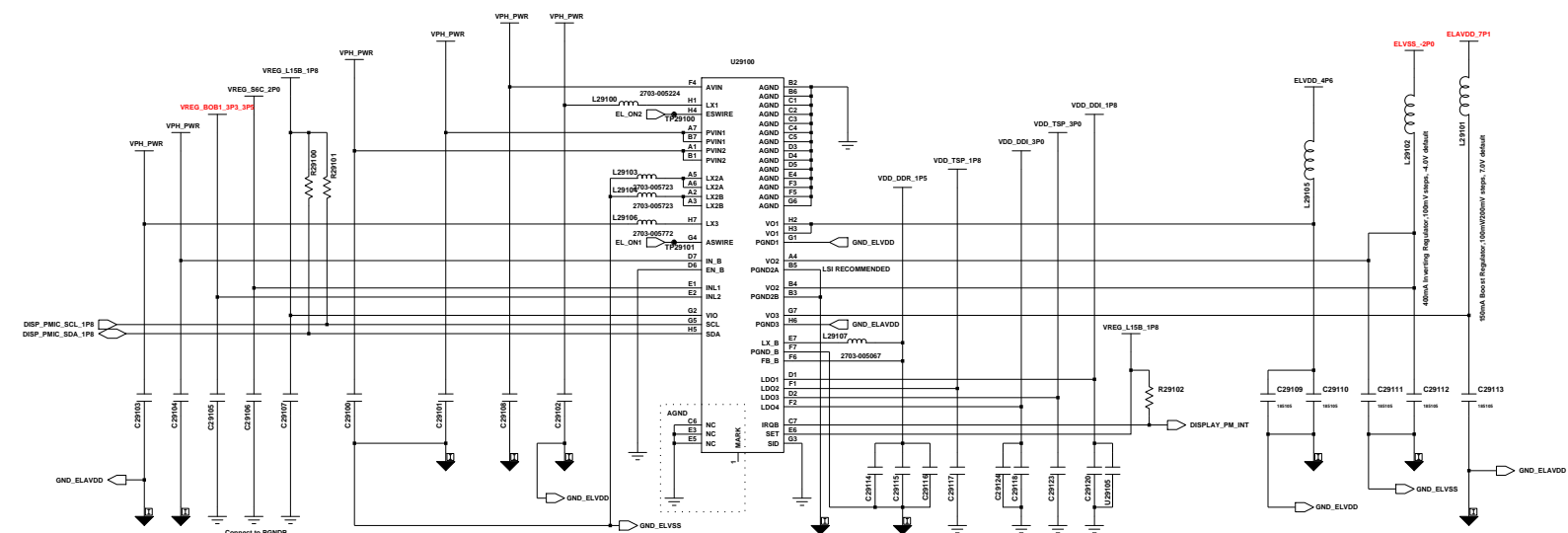
U27006

UWB Conn.

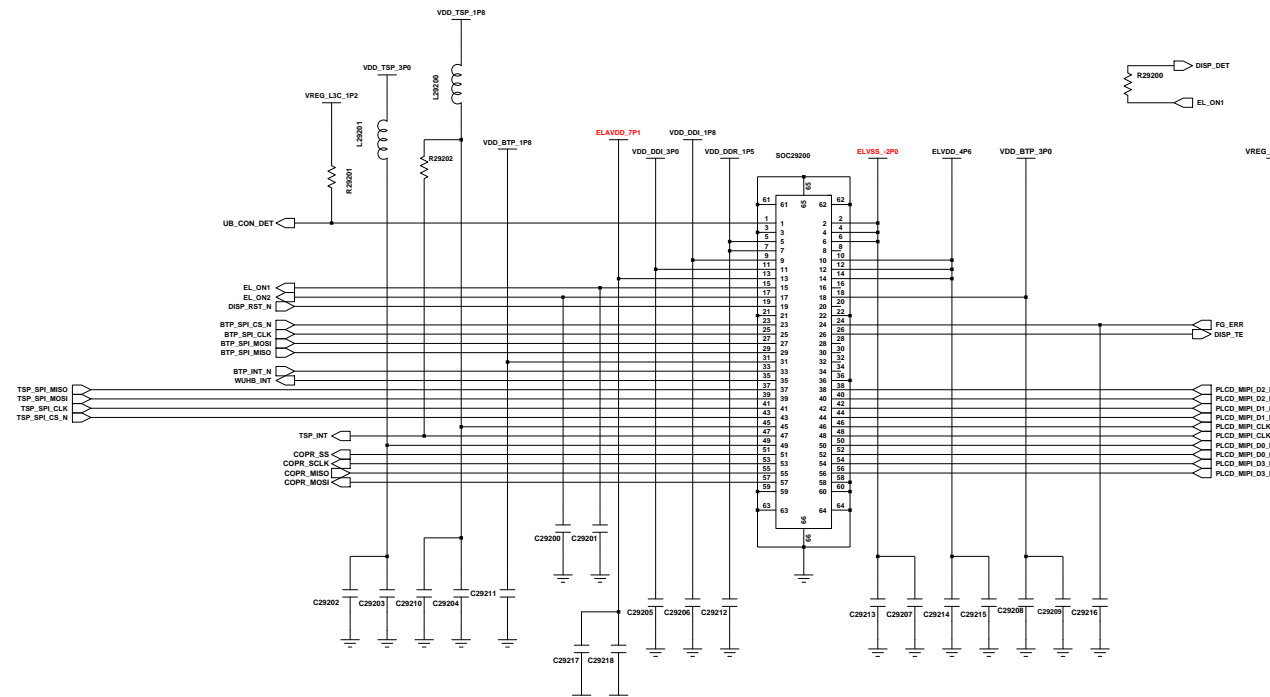
Ref#. 27nnn



Magnetic SENSOR

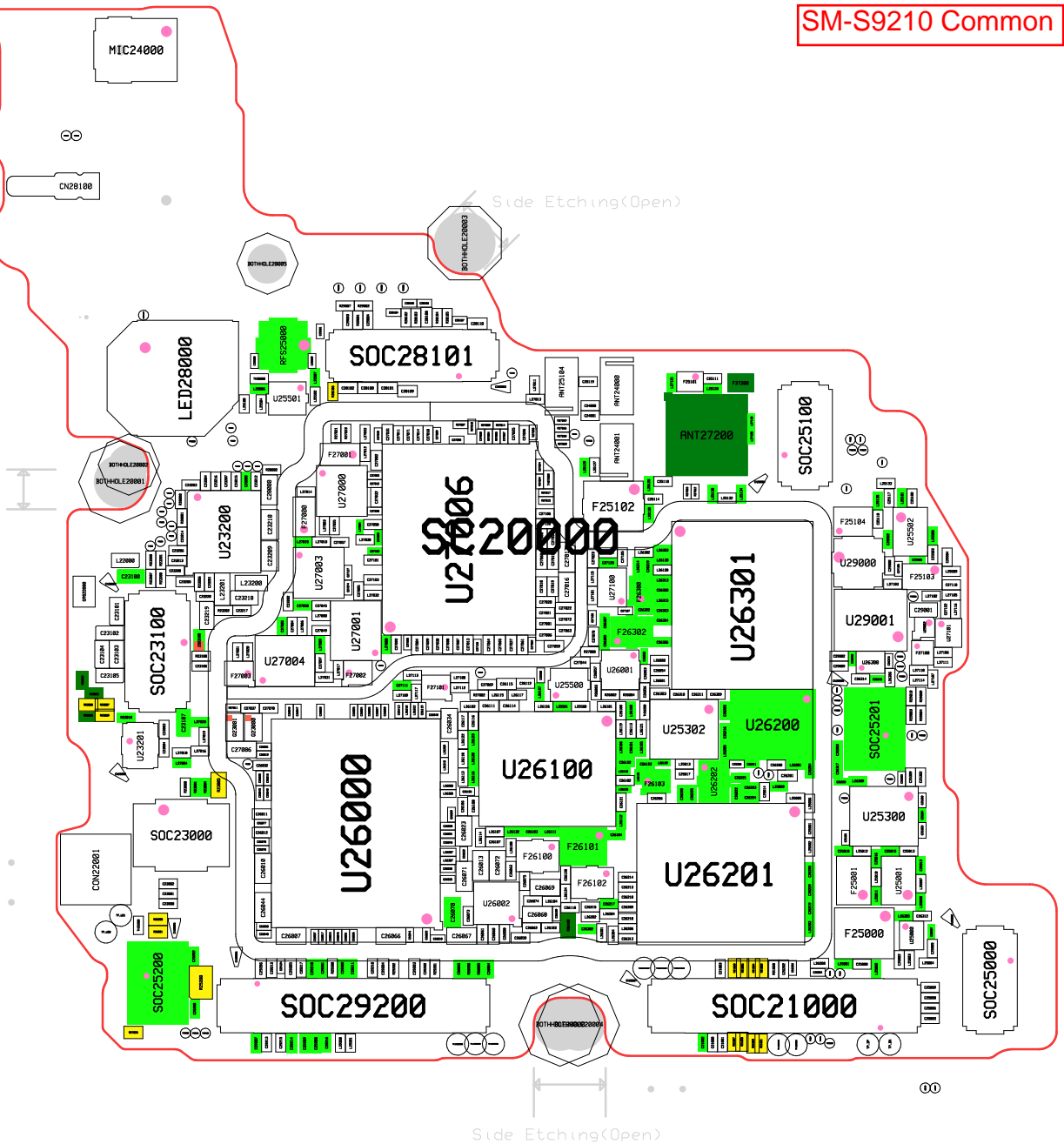


DISPLAY PMIC



DISPLAY CONNECTOR

JTAG22000



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																K
																L
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	<div><div>Engineer:</div><div>Drawn by:</div><div>RED CHK:</div><div>DOC CTRL CHK:</div><div>MFG ENGR CHK:</div></div> <div><div>Changed by:</div><div>userB</div><div>Date Changed:</div><div></div><div>Time Changed:</div><div></div><div>QA CHK:</div><div></div><div>REV</div><div></div><div>Drawing Number:</div><div></div><div>Page:</div><div>6</div></div>

SM-S921U IFSUB PBA REV0.7

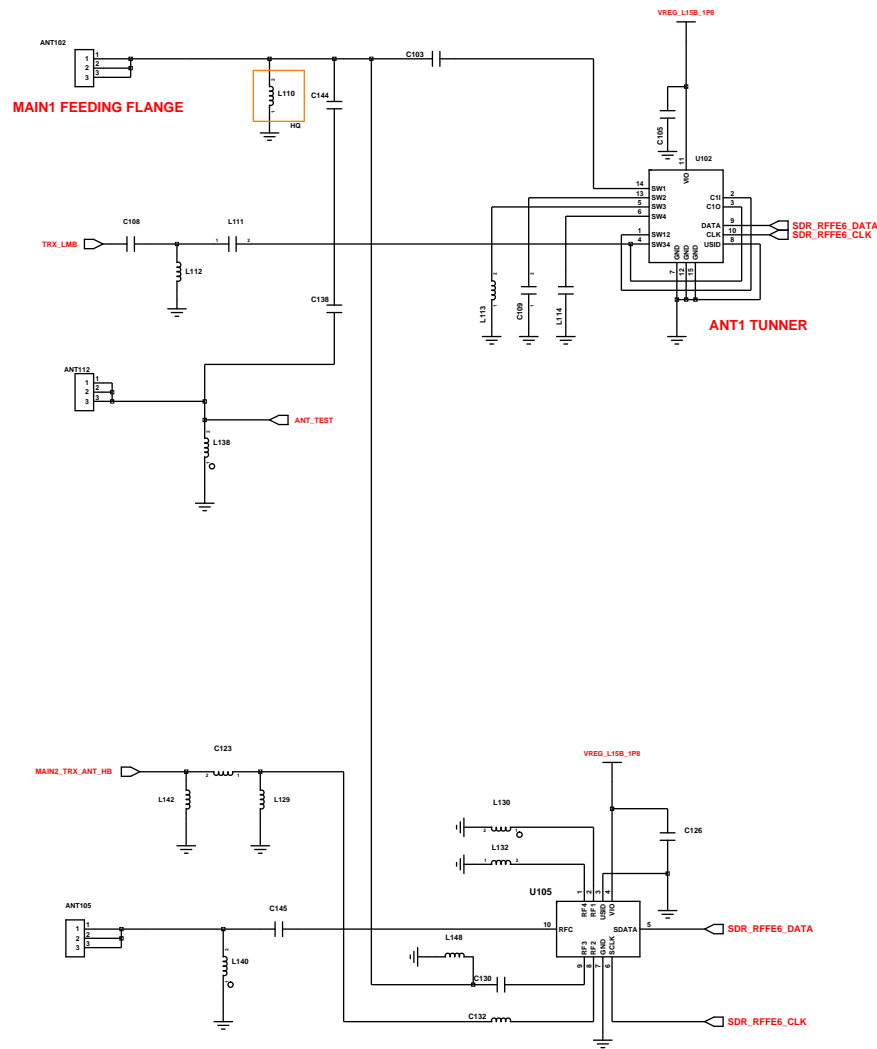
sheet01 : ANT

sheet02 : LOGIC

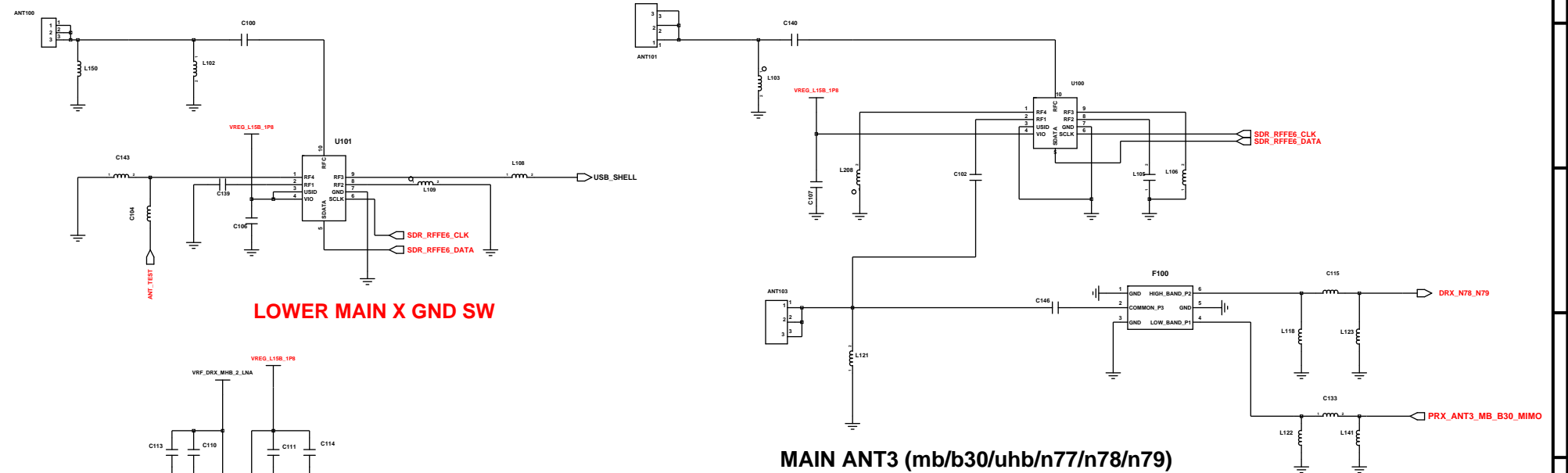
2023 . 09.20

Engineer:						
Drawn By:						
R&D CHK:	TITLE:		Size:			
DOC CTRL CHK:						
MFG ENGR CHK:						
Changed by: user83	Date Changed:	Time Changed:	QA CHK:	REV:	Drawing Number:	Page: 6

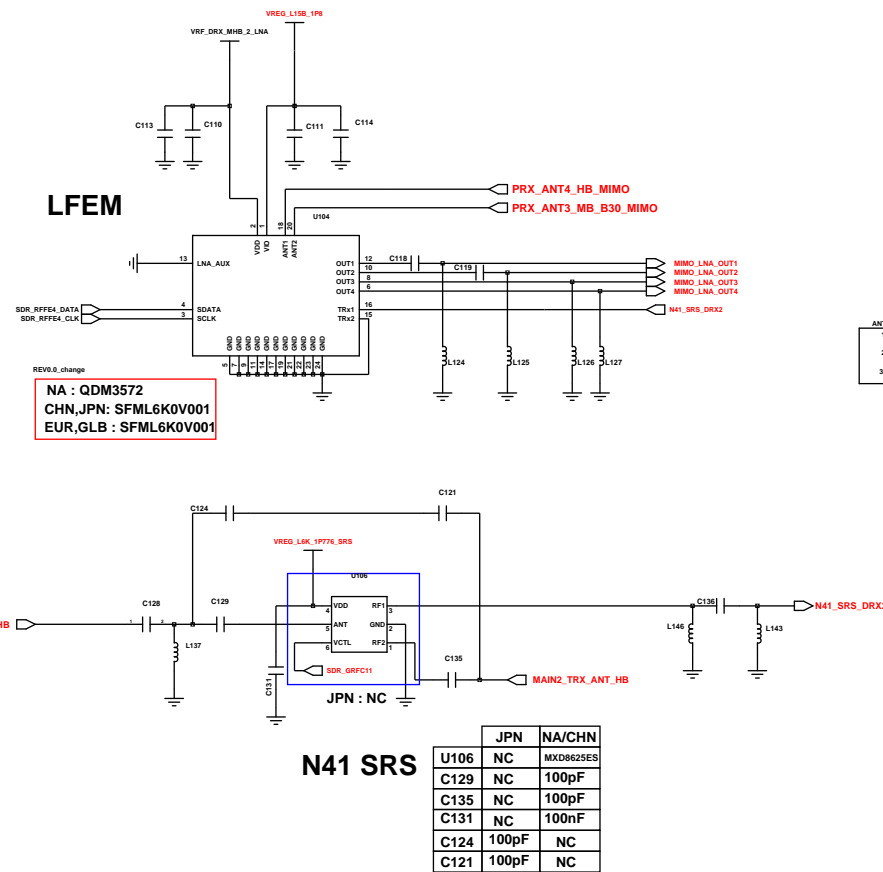
**(GSM LB/MB, B1/2/3/4/5/8/12/13/17/18/19/20/25/26/28,
TDD 34/39)**



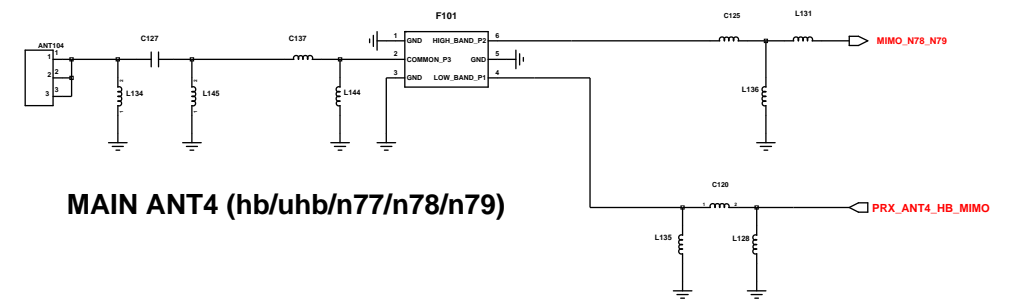
MAIN ANT2(HB/n77/n78)



MAIN ANT3 (mb/b30/uhb/n77/n78/n79)



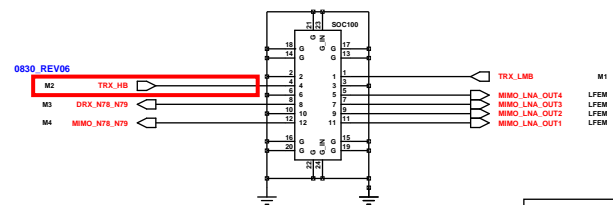
MAIN ANT4 (hb/uhb/n77/n78/n79)



MAIN ANT4 (hb/uhb/n77/n78/n79)

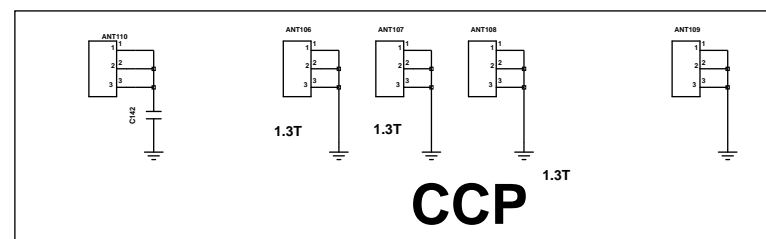
	JPN	NA/CHN
U106	NC	MXD8625ES
C129	NC	100pF
C135	NC	100pF
C131	NC	100nF
C124	100pF	NC
C121	100pF	NC

FRC CON

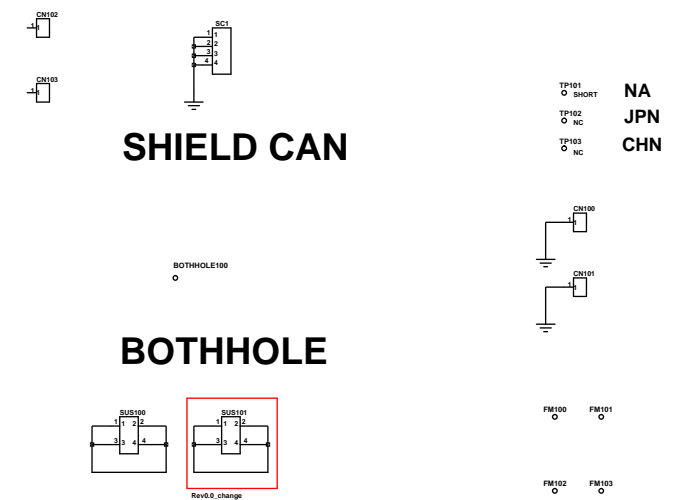


RF Connector

ANT	Band
M1 (Metal)	LB/MB
M2 (Metal)	HB/ n77/n78/n79
M3 (Metal)	mb/uhb/n77/n78/n79
M4 (SPK sus)	hb/uhb/n77/n78/n79



etc.



SHIELD CAN

BOTHHOLE

SCREW SUS

INSIK MARK



Stacked Dual SIM SOCKET

BtoB CON



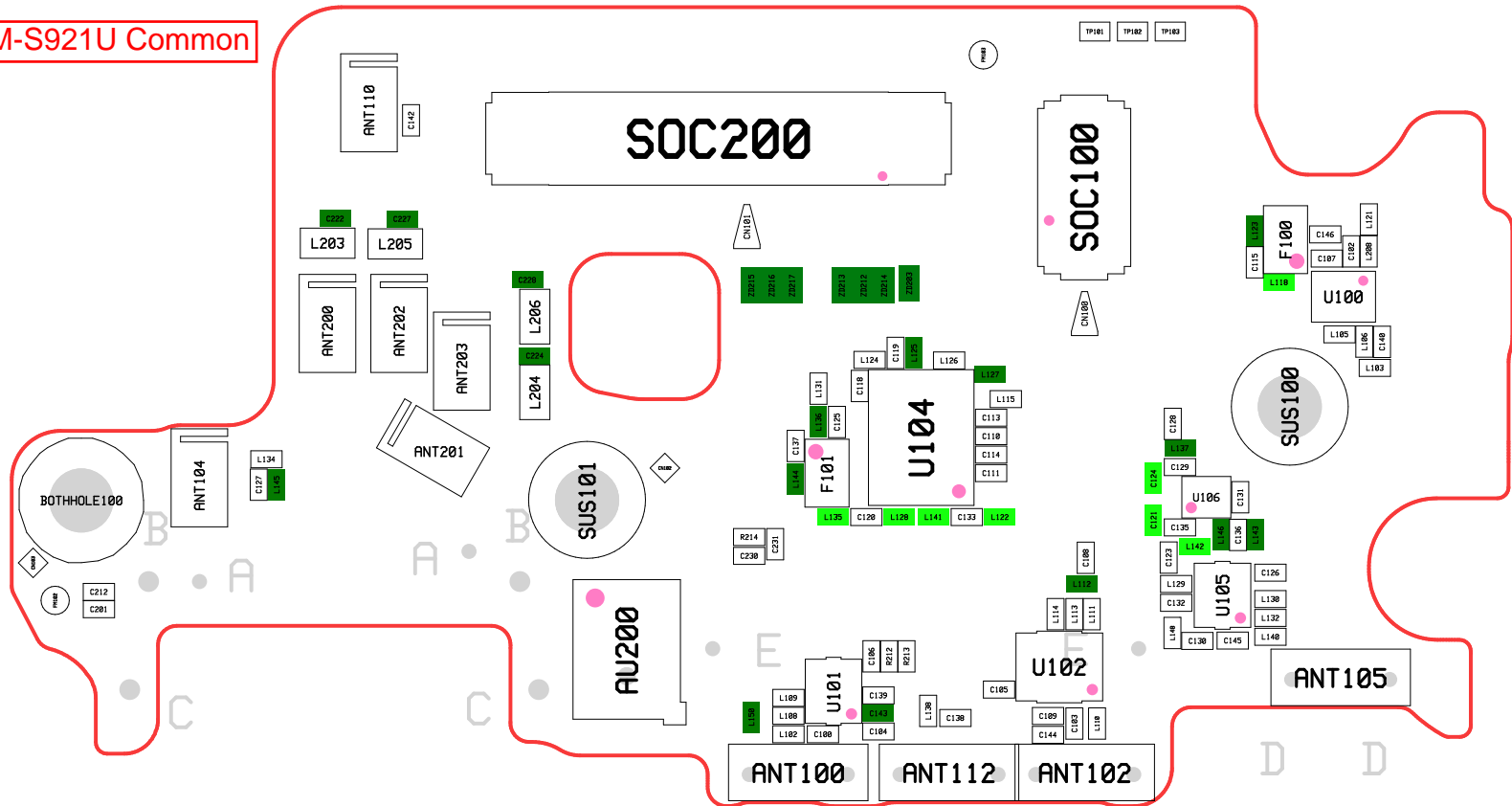
SPK CONTACT



MAIN MIC

ADC RANGE	TYPICAL VALUE	ID	EXT_PU	EXT_PD	DM1
0 ~ 300	0	8	NC	332K, 1%	EUR_Sub6 Global_Sub6
301 ~ 600	480	0	332K, 1%	120K, 1%	NA_mmW NA_CAN_Sub6
601 ~ 900	720	4	270K, 1%	180K, 1%	CHN_Sub6
901 ~ 1200	1080	5	180K, 1%	270K, 1%	KOR_Sub6_RC
1201 ~ 1400	1320	6	120K, 1%	332K, 1%	JPN_mmW
1401 ~ 1530	1480	7	100K, 1%	470K, 1%	Global_Sub6_R

SM-S921U Common



SM-S9210 Common

