

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<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
																B
																C
																D
																E
																F
																G
																H
																I
																J
																K
																L
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

SM-S911U\_SREV0.7

2022. 10. 05

SHEET01 : RF

SHEET02 : BT/WIFI

SHEET03 : SPK AMP, NFC IC, MOTOR DRIVER IC, AUX SW, SIDE KEY

SHEET04 : AP(1/2), UFS, NVM

SHEET05 : AP(2/2), Charger block

SHEET06 : AP PMIC set, Clock Generator

SHEET07 : CAM PMIC, CAM Conn., CAM MCU, DISPLAY PMIC, DISPLAY Conn.

SHEET08 : 5G IFIC, mmW connector, RF PMIC #2

SHEET09 : INTERPOSER, SHIELDCAN

Engineer:

Drawn by:

RED CHK:

DOC CTRL CHK:

WFA ENGR CHK:

TITLE:

Size:

Changed by: sznd

Date Changed:

Time Changed:

QA CHK:

KEY

Drawing Number:

Page: 6

# SM-S911U\_SREV0.7

2022. 10. 05

- SHEET01 : RF
- SHEET02 : BT/WIFI
- SHEET03 : SPK AMP, NFC IC, MOTOR DRIVER IC, AUX SW, SIDE KEY
- SHEET04 : AP(1/2), UFS, NVM
- SHEET05 : AP(2/2), Charger block
- SHEET06 : AP PMIC set, Clock Generator
- SHEET07 : CAM PMIC, CAM Conn., CAM MCU, DISPLAY PMIC, DISPLAY Conn.
- SHEET08 : 5G IFIC, mmW connector, RF PMIC #2
- SHEET09 : INTERPOSER, SHIELDCAN

Engineer:			
Drawn by:			
RDG CHK:	TITLE:		Size:
DOC CTRL CHK:			
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page:

Changed by:	Rev:	Date Changed:	Time Changed:
-------------	------	---------------	---------------

# TRANSCEIVER(Dual SDR735)

## DRX\_ANT Radiation Conduction

SUB ANT1\_Frame  
(lb\_hb)

SUB3  
(N77/78\_WIFI 5G)

SUB5  
(n79)

SUB ANT2\_Slit  
(MB\_HB\_N79\_L1)

SUB4  
(mb\_WIFI 2.4G)

SUB6  
(n77/78)



CCP

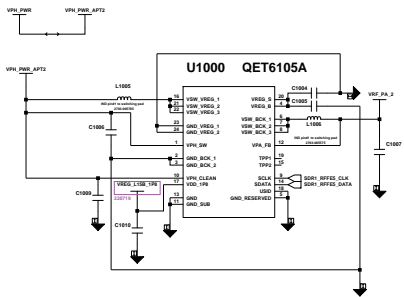
DRX\_LB

(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

(B1/2/3/4/7/25/30/39/41/66\_BC1\_DCS/PCS)

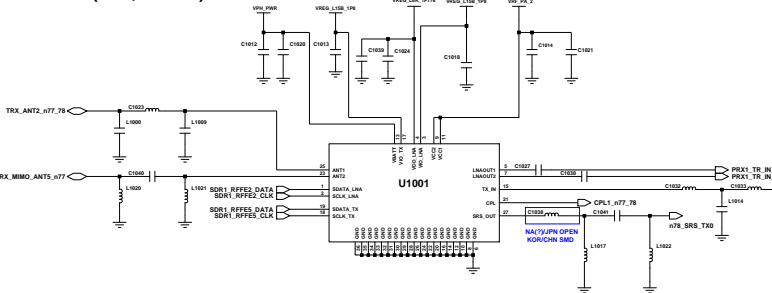
PMR735D #0

GPS\_L1(for SUB4 opt)

GPS\_L5

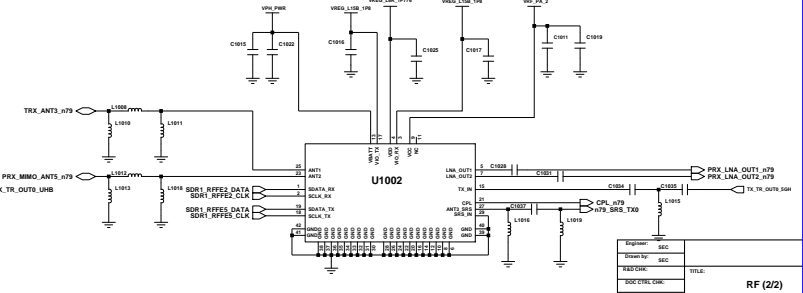
UHB

(B48, n77/78)

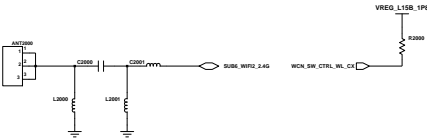


UHB  
(n79)

NA/KOR OPEN  
CHN/JPN SMD

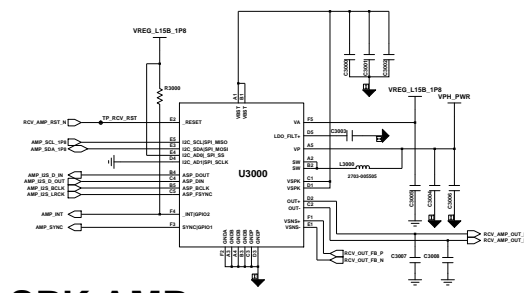


# WIFI (WCN7851 CoB)

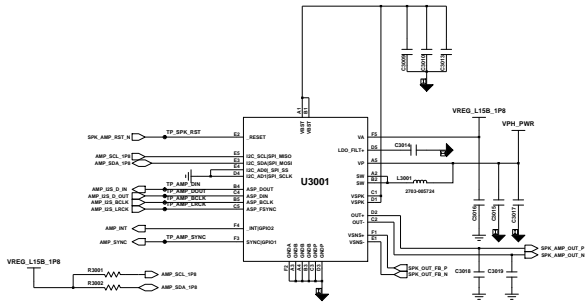


# AUDIO

## RCV AMP



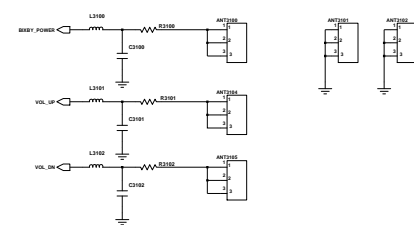
## SPK AMP



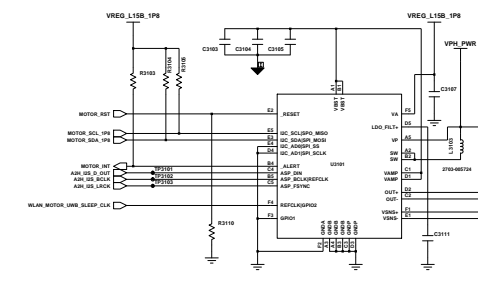
# Visual SENSORS

# System

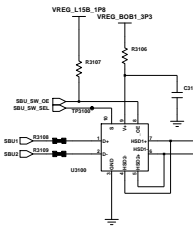
## Vol + Power key



## MOTOR DRV IC



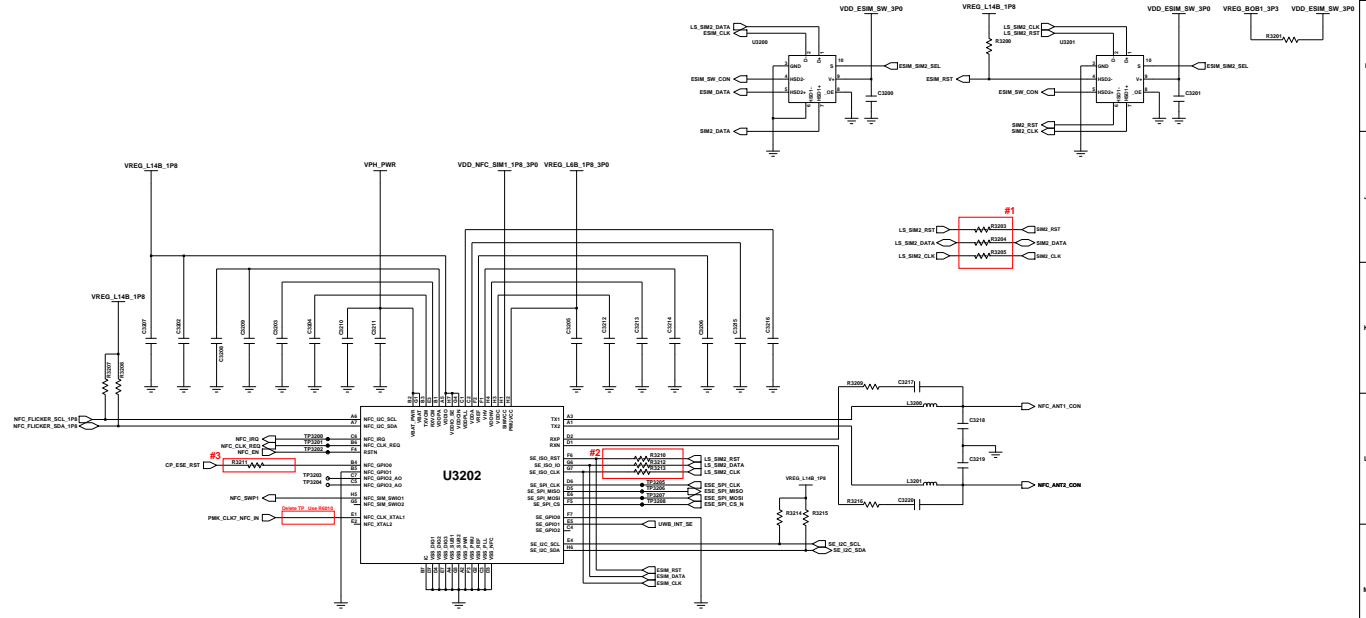
## AUX sw



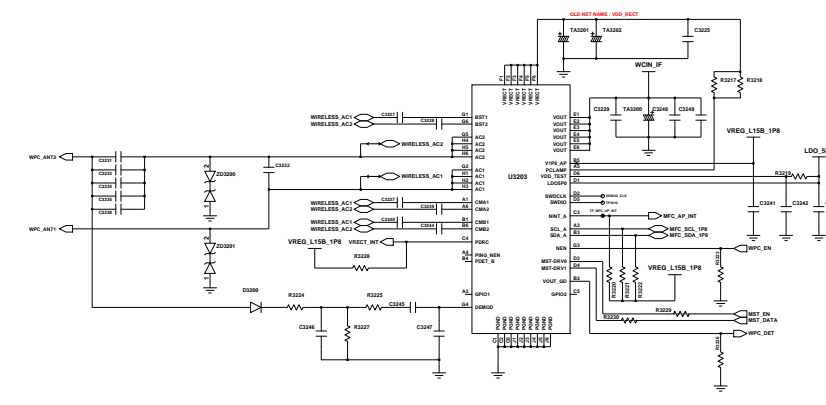
# Power

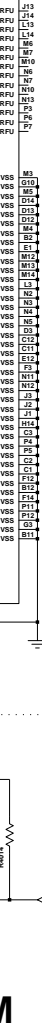
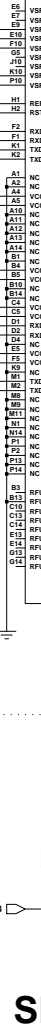
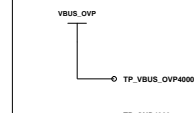
## NFC


		NFC IC	#1	#2	#3		Switch IC	ESIM_SIM2_SEL
NA/CAN	Nano + eSIM	SN220U	OPEN	SHORT	SHORT		NC	
Global	2-Nano + eSIM	SN220U	OPEN	OPEN	SHORT	SMD	HSD1(H), SIM2 HSD2(L), eSIM	
CHN	2-Nano	SN220T	SHORT	OPEN	OPEN		NC	
JPN	Nano + eSIM	SN220P	OPEN	SHORT	SHORT		NC	



## MFC

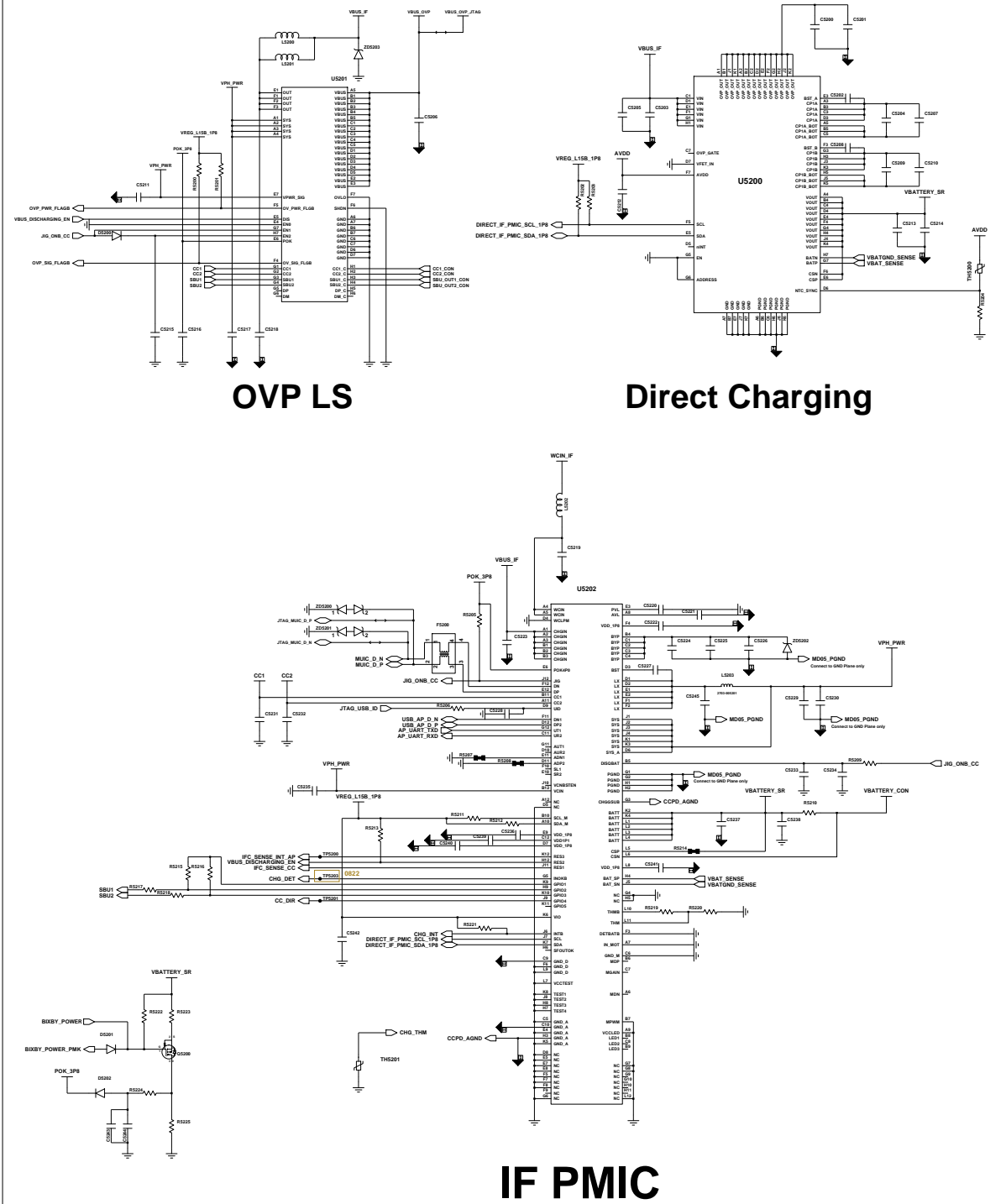




Engineer: SEC			
Drawn by: SEC			
R&D CHK:	TITLE:	Size:	
DOC CTRL CHK:	AP (1/2), UFS, NVM		16 112 A
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page:

## Charger block

# Power

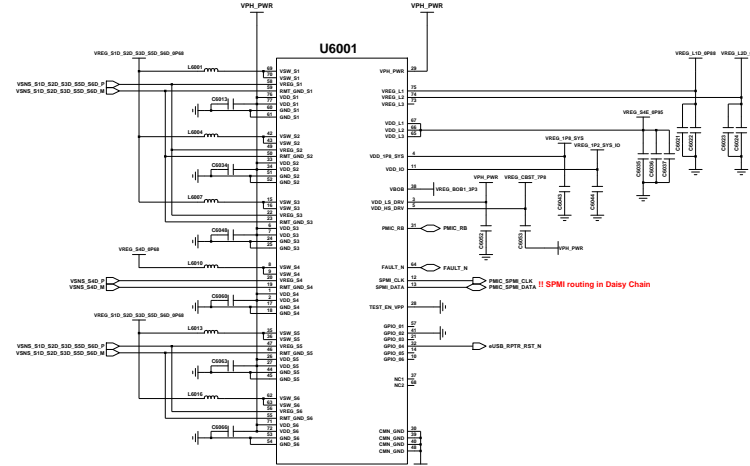




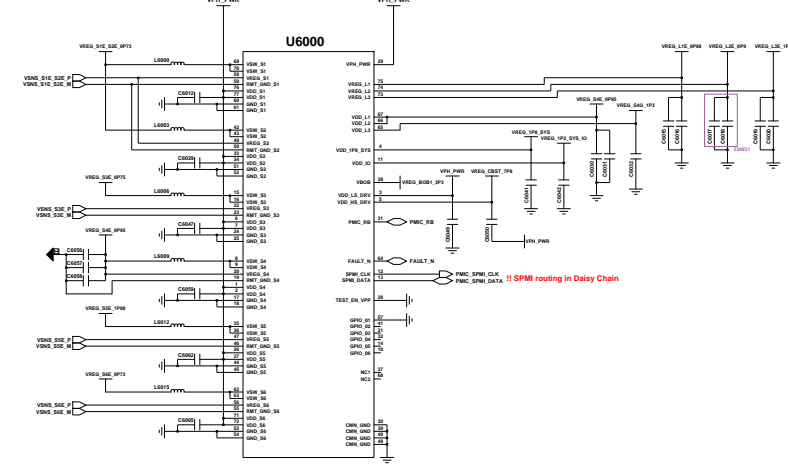
# Power System

[illegible]

**PM8550VS\_C**

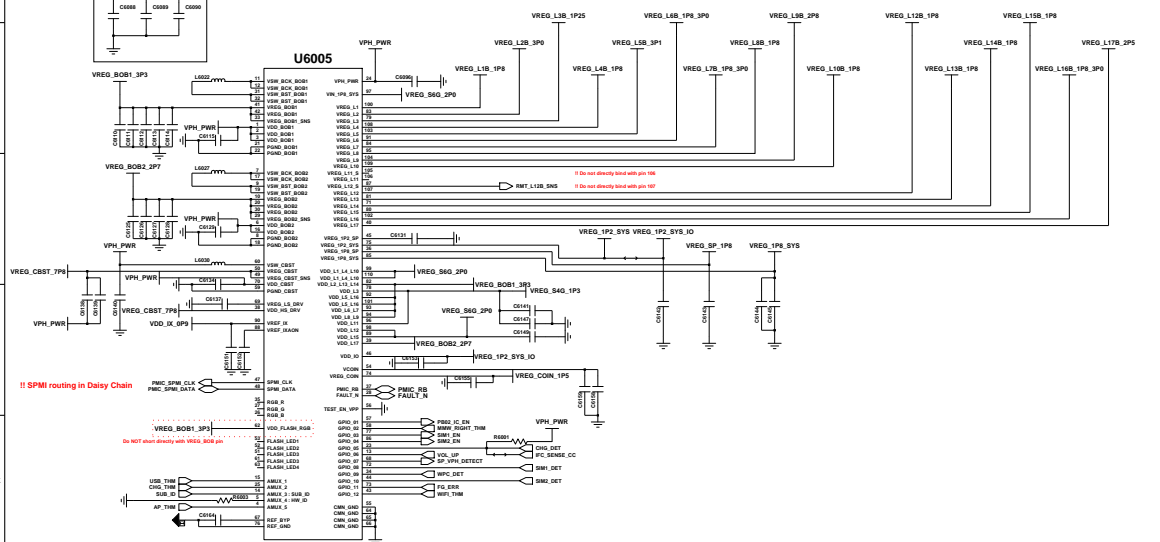


**PM8550VS\_D**

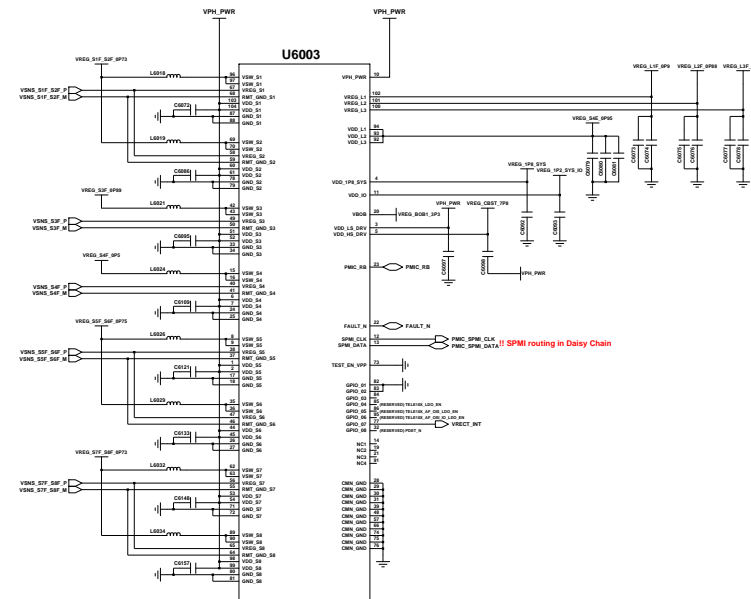


**PM8550VS\_E**

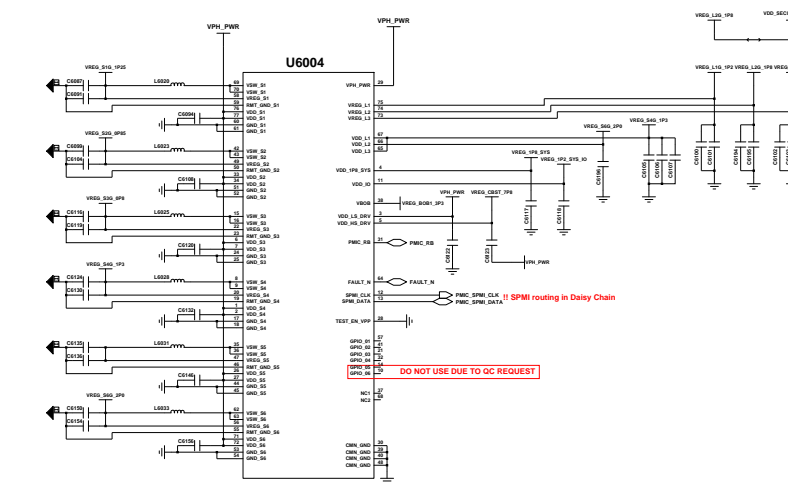
# PM8550



# PM8550

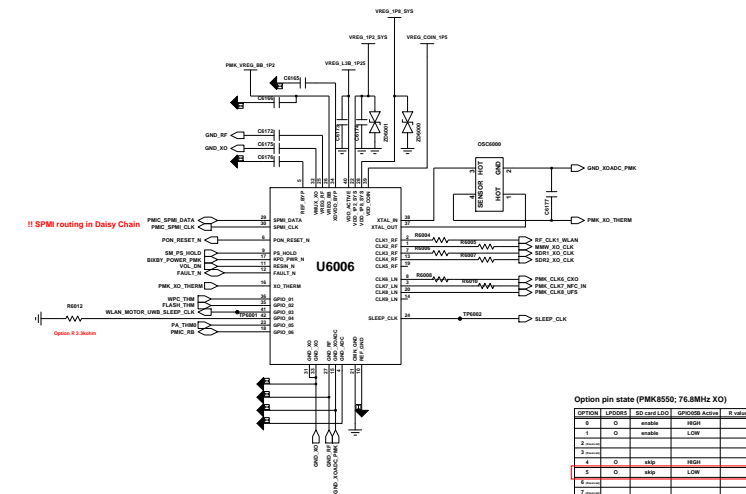


**PM8550VE\_F**



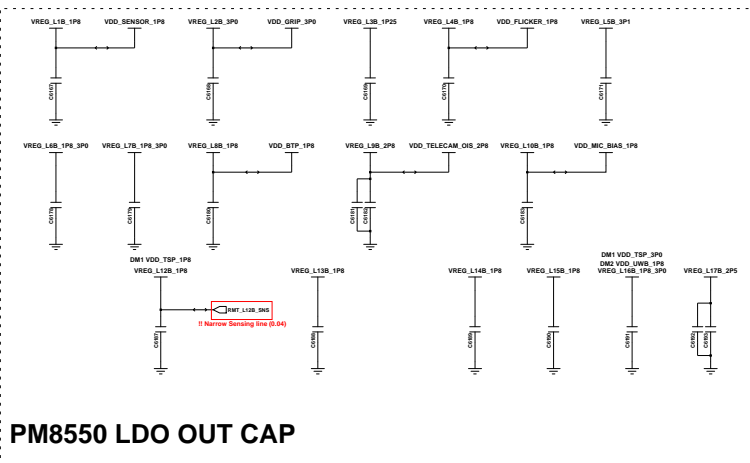
**PM8550VS\_G**

# PMK8550



# PMK8550

HW ID	BOARD REVISION	Value	Mech
00	SM8550 SW bring-up A-Type	6.94K	
01	SM-S911U / 916U REV0.0	9.1K	
02	SM-S911U / 916U REV0.1	12.4K	
03	SM-S911U / 916U REV0.2 (ESv1)	18K	
04	SM-S911U / 916U REV0.2 (ESv2)	22K	
05	SM-S911U / 916U REV0.3 (ESv2)	30K	
06	SM-S911U / 916U REV0.4	39K	
07	SM-S916U REV0.4A	47K	
08	SM-S911U / 916U REV0.5	56K	
09		68K	
10	SM-S911U / 916U REV0.5 (QPM6815)	82K	
11	SM-S911U / 916U REV0.6	100K	
12		120K	
13	SM-S911U / 916U REV0.7	150K	
14		180K	
15		200K	
16		240K	
17		280K	
18		330K	
19		430K	
20		560K	
21		750K	
22		1000K	
23		1500K	
24		3000K	



### PM8550 LDO OUT CAP

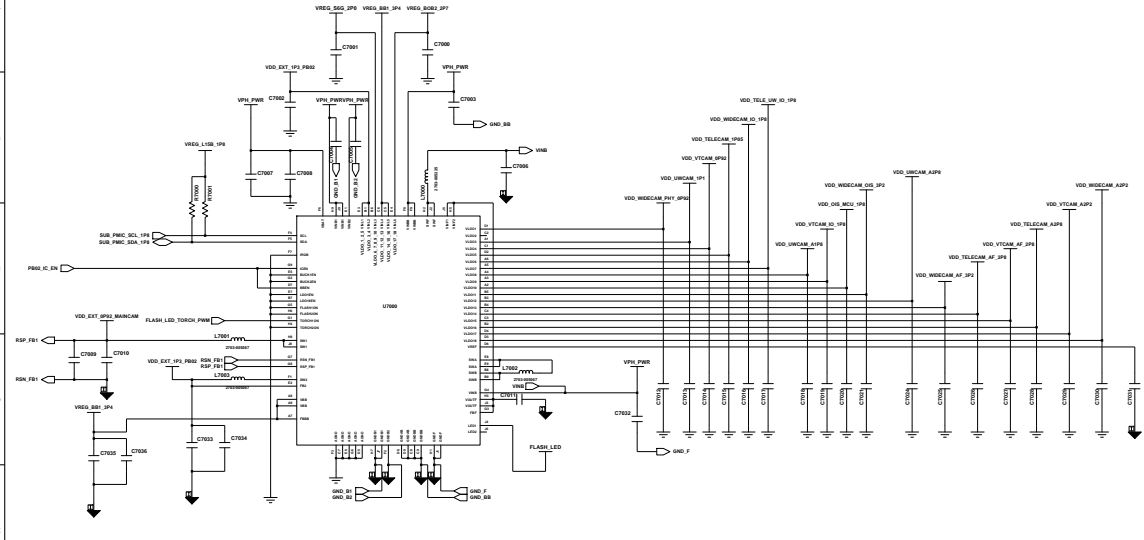
OPTION	UPDGERS	SD card LDO	GPIOxS Active	R value
0	O	enable	PGH	
1	O	enable	LOW	
2				
3				
4	O	skip	PGH	
5	O	skip	LOW	
6				
7				

# CAMERA

# Visual

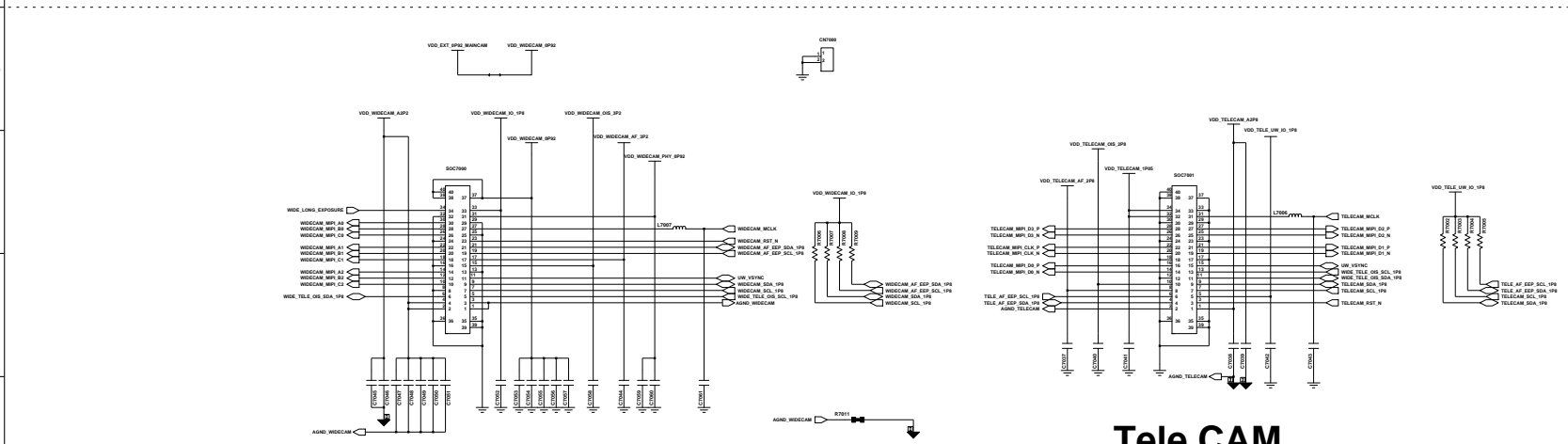
# DISPLAY

# Visual



Flash & Flicker sensor

## CAM PMIC (PB02)



## Wide CAM

## Tele CAM

## DISPLAY CONNECTOR

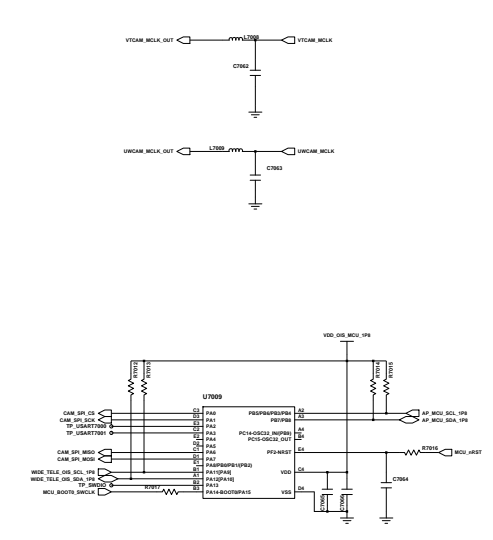
# System

## ULTRA WIDE CAM

## FRONT CAM

## CAM MCU

## IF SUB PBA Conn

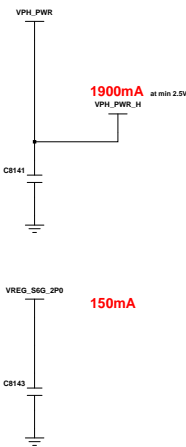
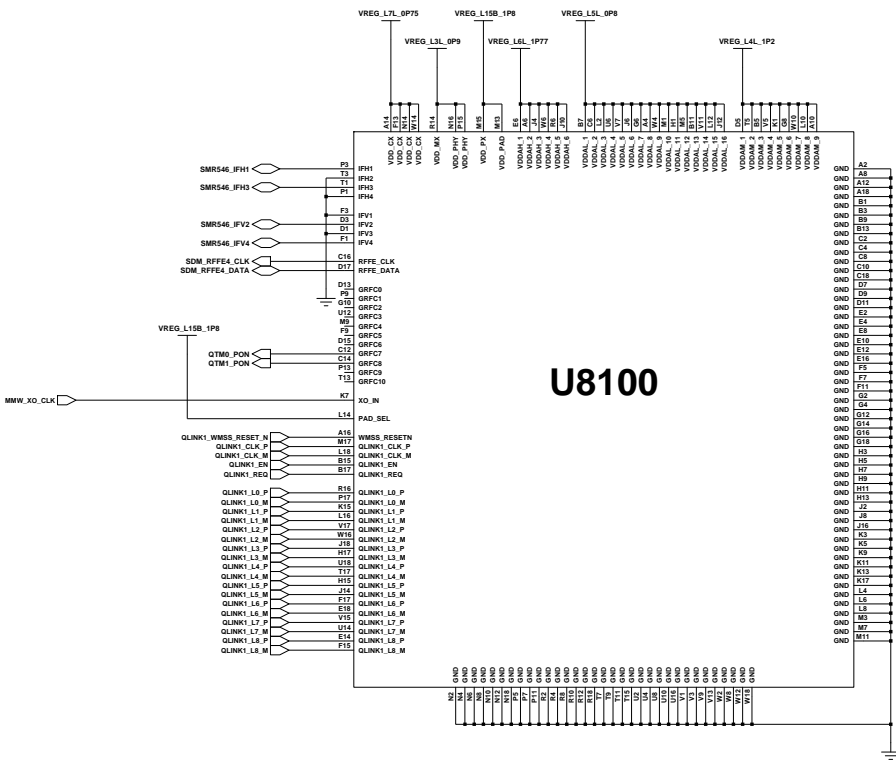


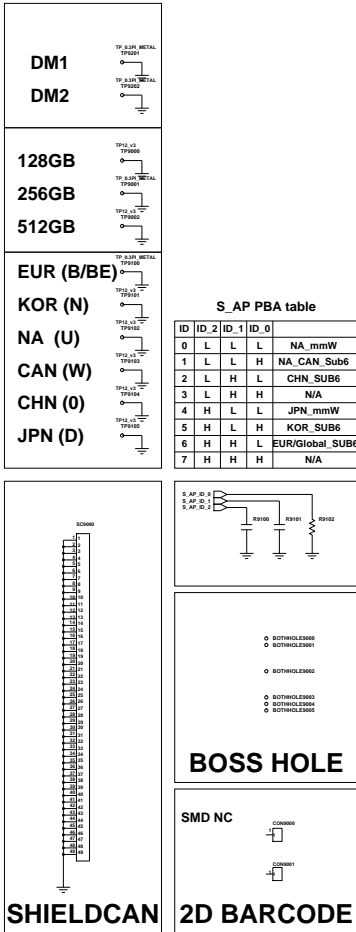




# 5G IFIC (SMR546)

# Radiation





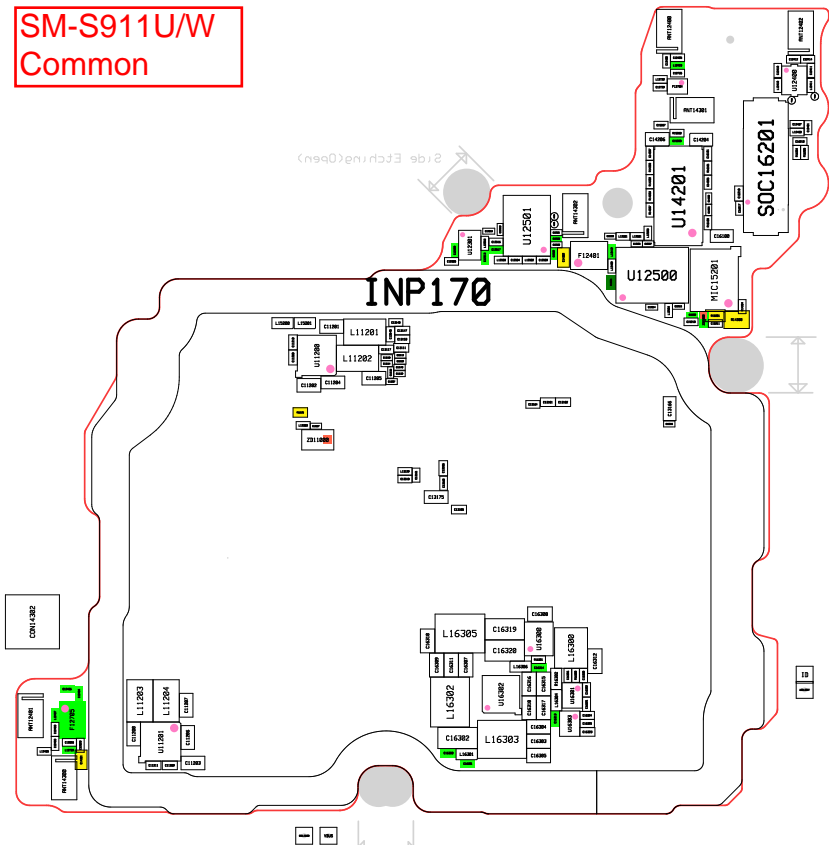
☐ SOTHIRHOLE3000  
☐ SOTHIRHOLE3001  
  
☐ SOTHIRHOLE3002  
  
☐ SOTHIRHOLE3003  
☐ SOTHIRHOLE3004

## BOSS HOLE

**SMD NC**  CON3000



SM-S911U/W  
Common



<div>SAMSUNG CONFIDENTIAL</div> <div>THIS DOCUMENT CONTAINS CONFIDENTIAL</div> <div>PROPRIETARY INFORMATION THAT IS</div> <div>SAMSUNG ELECTRONICS CO.'S PROPERTY.</div> <div>DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS</div> <div>EXCEPT AS AUTHORIZED BY SAMSUNG.</div>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
																A
																B
																C
																D
																E
																F
																G
																H
																I
																J
																K
																L
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

SM-S911U M REV07

2022.10.19\_SMD

SHEET01 : RF (1/2), FRC, ET, mmW CON

SHEET02 : RF (2/2), TRCV\_SDR735, RF PMIC #1

SHEET03 : BT/WIFI

SHEET04 : BAT CON, W/C CON, SENSOR

SHEET05 : IF SUB CON, JTAG, RCV CON, MIC

SHEET06 : UW CAM CON, Front CAM CON, DISPLAY PMIC, DISPLAY CON

SHEET07 : INTERPOSER

Engineer:

Drawn by:

REQ CHK:

DOC CTRL CHK:

WFA SIGNER CHK:

TITLE:

Size:

Changed By: sznd

Date Changed:

Time Changed:

QA CHK:

REV

Drawing Number:

Page: 6

# SM-S911U M REV07

2022.10.19\_SMD

SHEET01 : RF (1/2), FRC, ET, mmW CON

SHEET02 : RF (2/2), TRCV\_SDR735, RF PMIC #1

SHEET03 : BT/WIFI

SHEET04 : BAT CON, W/C CON, SENSOR

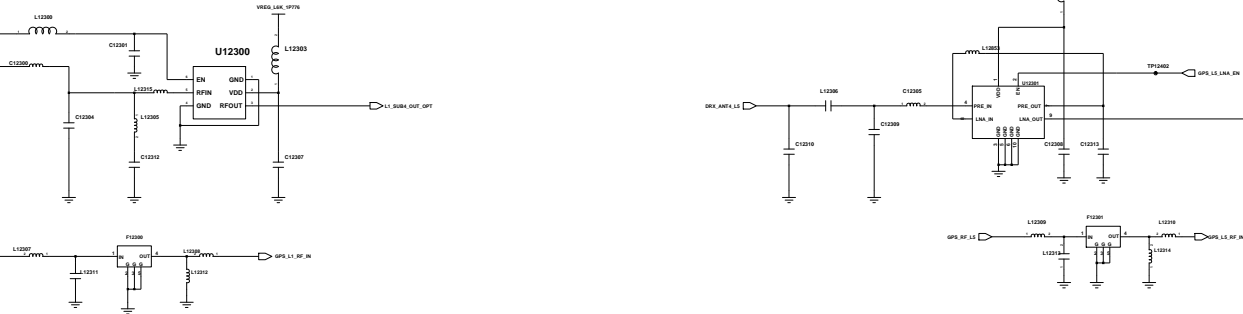
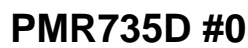
SHEET05 : IF SUB CON, JTAG, RCV CON, MIC

SHEET06 : UW CAM CON, Front CAM CON, DISPLAY PMIC, DISPLAY CON

SHEET07 : INTERPOSER

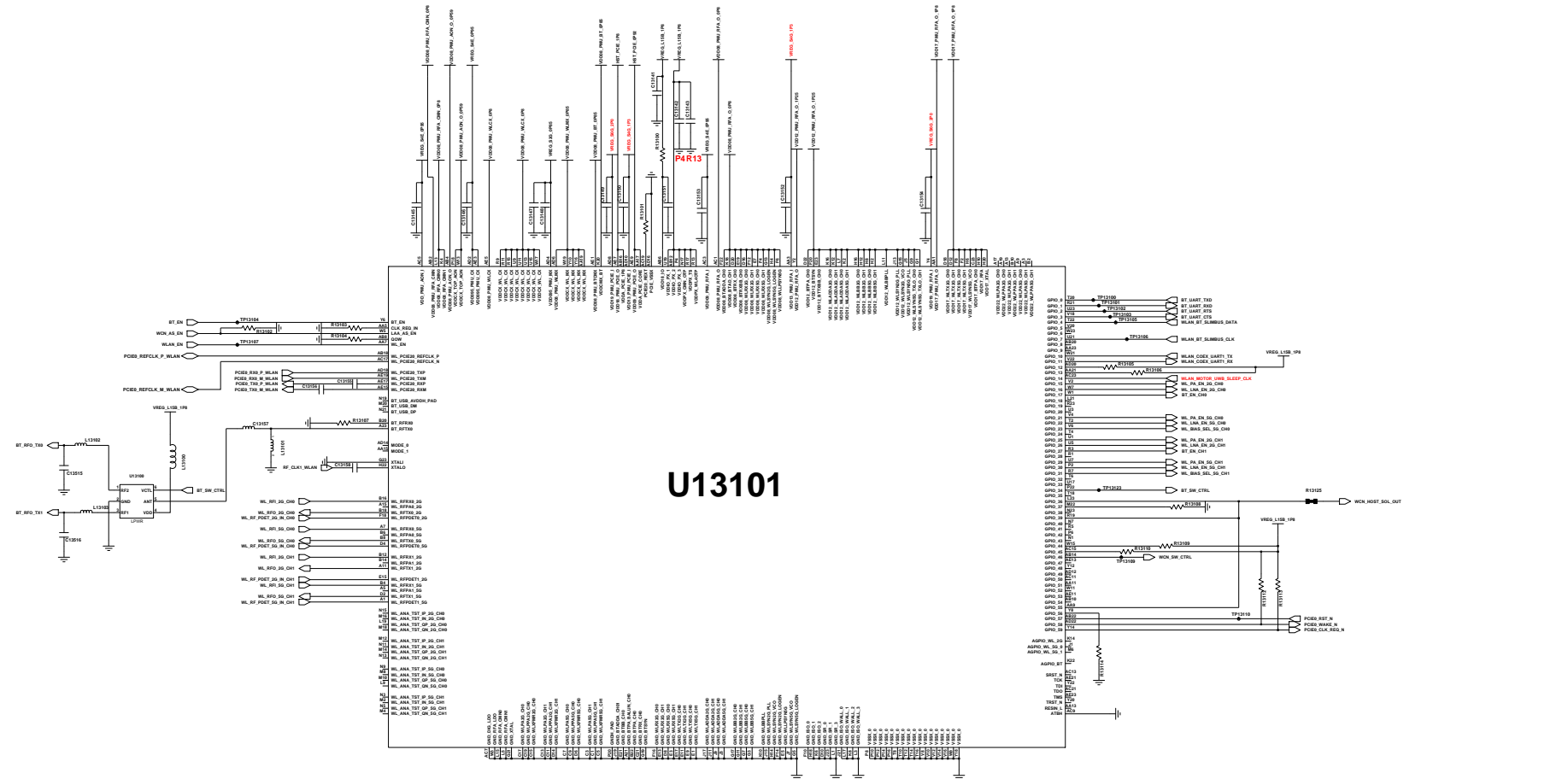
Engineer:			
Drawn by:			
RDG CHK:	TITLE:		Size:
DOC CTRL CHK:			
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page:



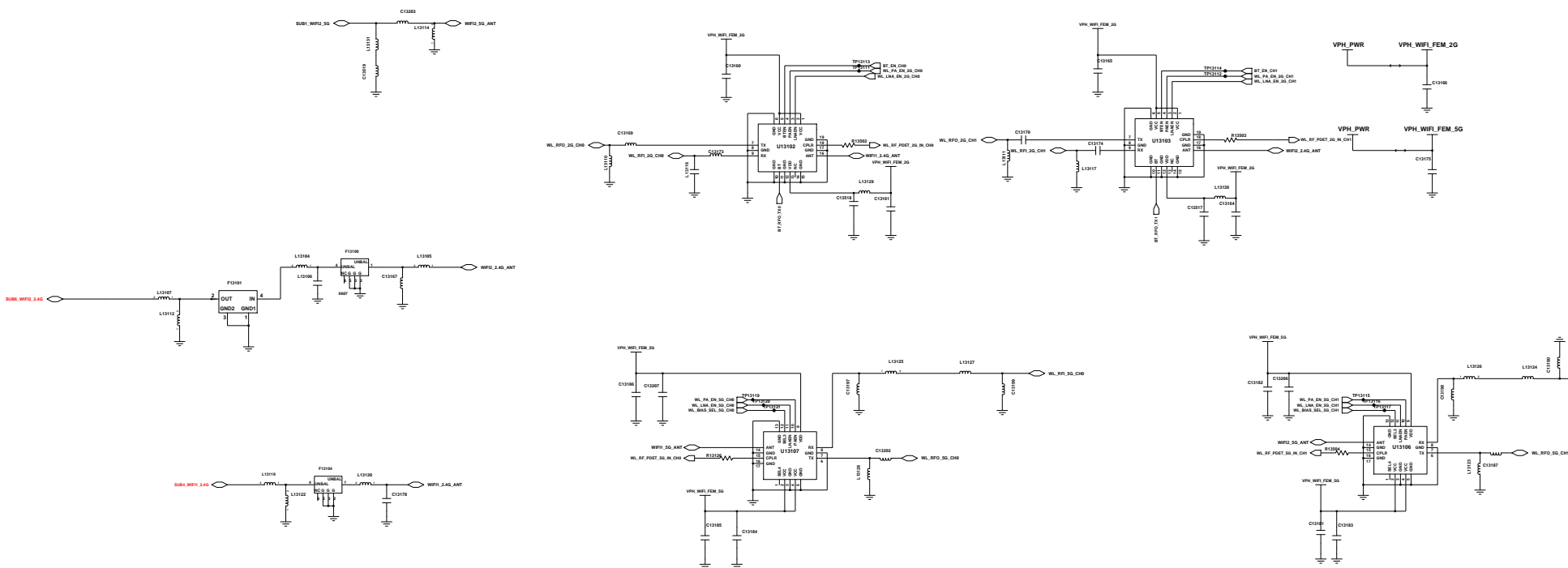




# UWB

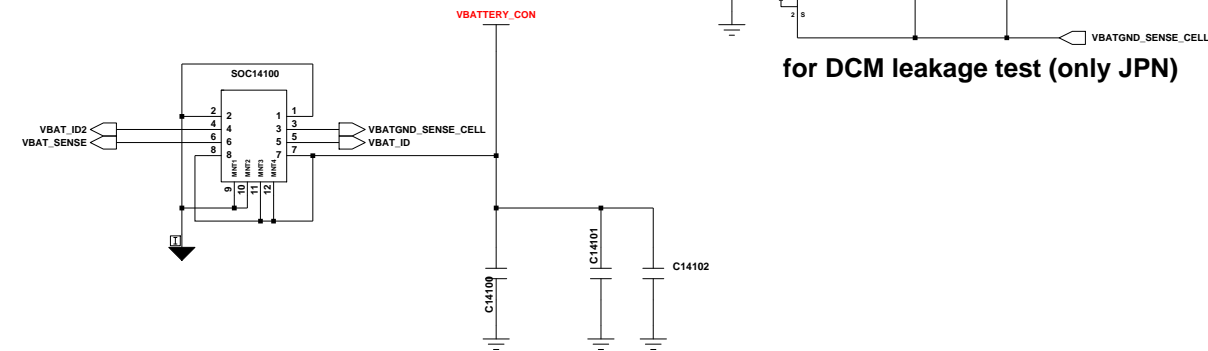


# UWB Conn.

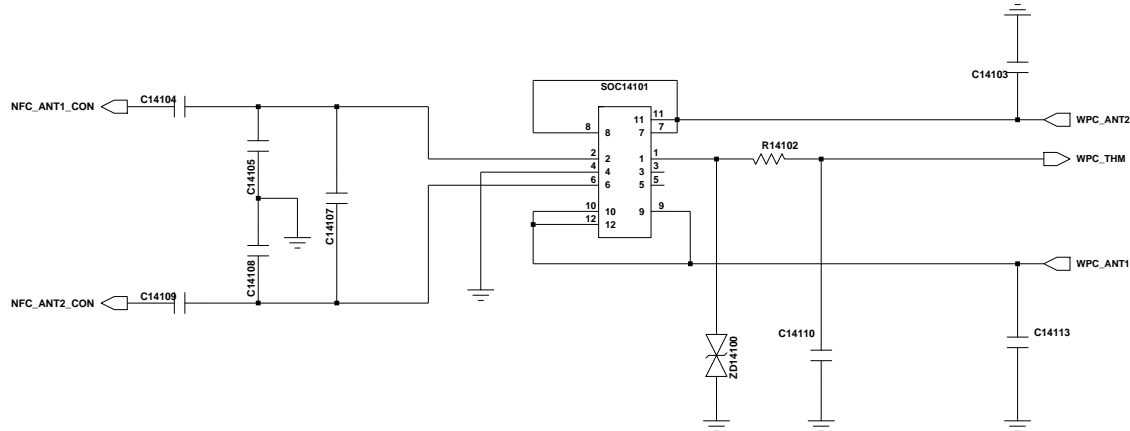


SAMSUNG CONFIDENTIAL  
THIS DOCUMENT CONTAINS CONFIDENTIAL  
PROPRIETARY INFORMATION THAT IS  
SAMSUNG ELECTRONICS CO.'S PROPERTY.  
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS  
EXCEPT AS AUTHORIZED BY SAMSUNG.

# Power

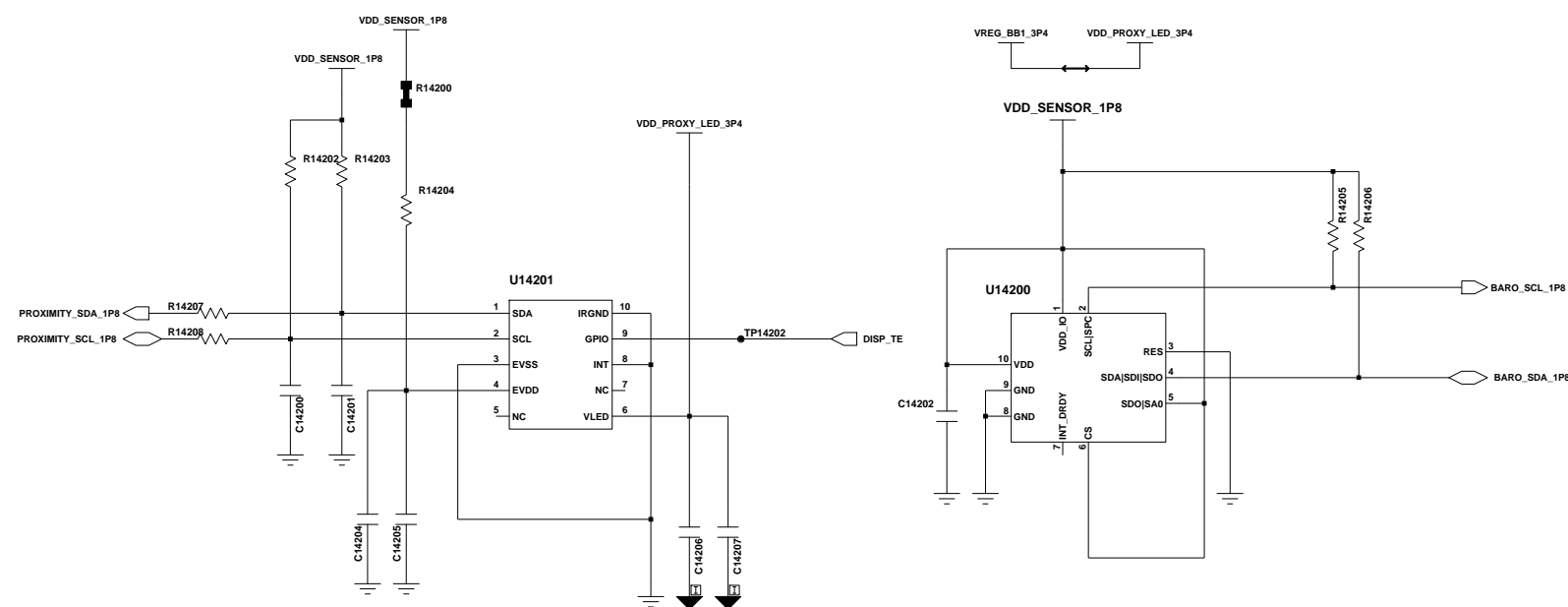


## Battery Connector



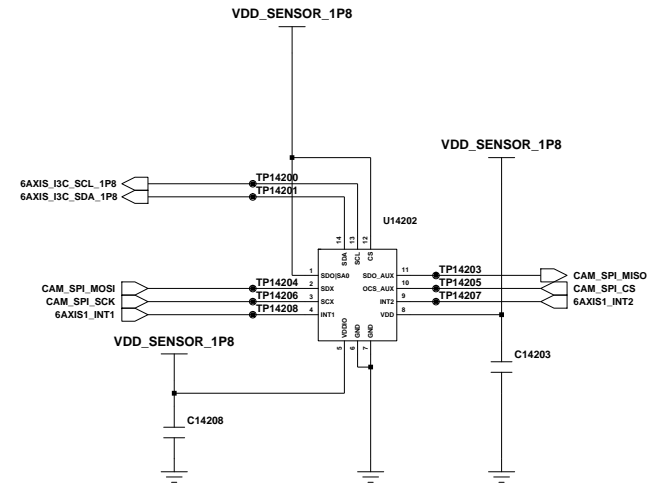
## W/C CONNECTOR

## MST SW



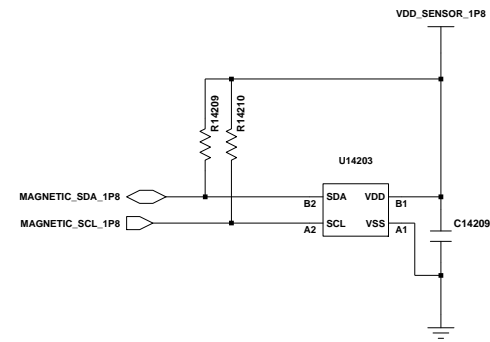
## Proximeter/Ambient Light Sensor

## Barometer SENSOR

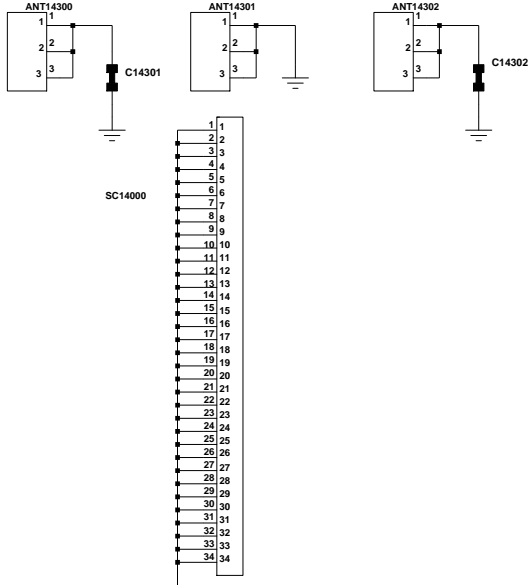


## 6 Axis SENSOR (GYRO,ACCEL)

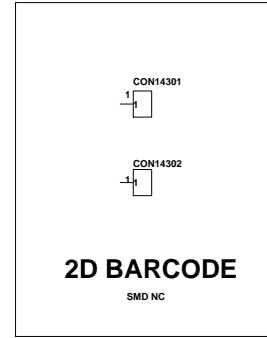
## Magnetic SENSOR



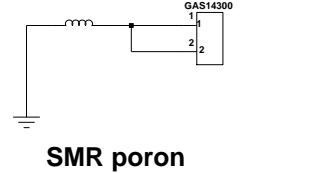
## CCP



## SHIELDCAN



## IVH-COUPON



## BOSS HOLE

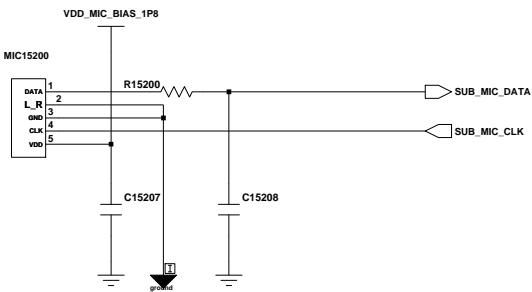
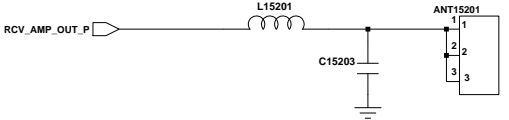
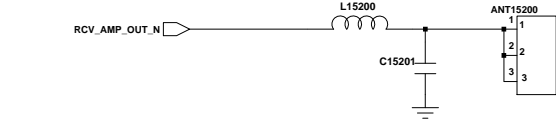
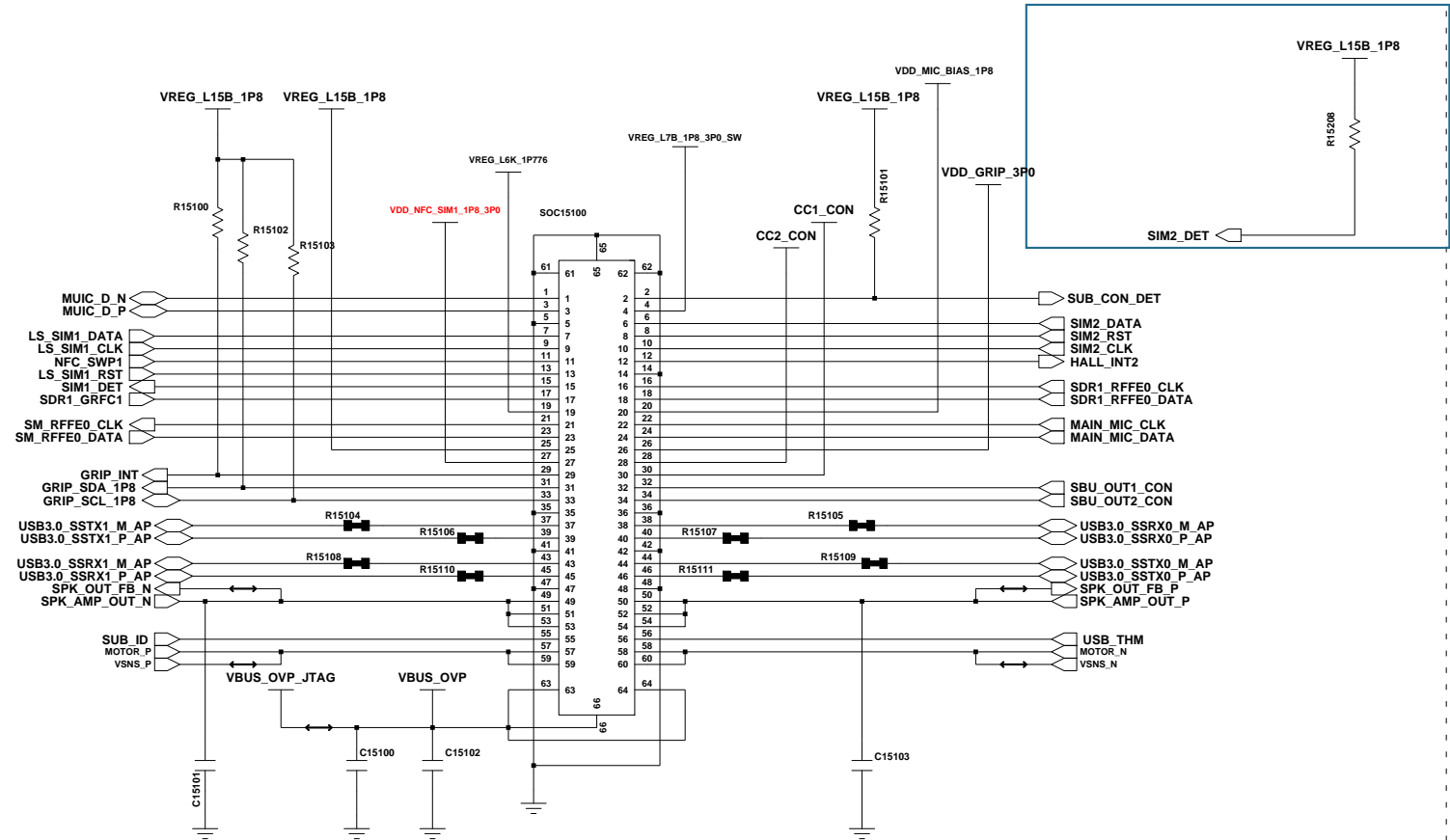
Engineer: SEC	SAMSUNG ELECTRONICS		
Drawn by: SEC	TITLE: DM1_R00_M_RF_220511_START		
R&D CHK:	Size: 12 1 8 A		
DOC CTRL CHK:	REV:		
MFG ENGR CHK:	Drawing Number:		
QA CHK:	Page: 4		

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.

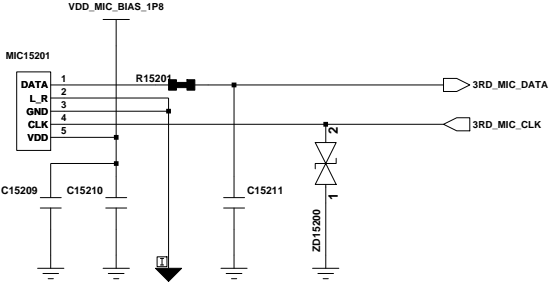
# System

# AUDIO

## RCV Conn.



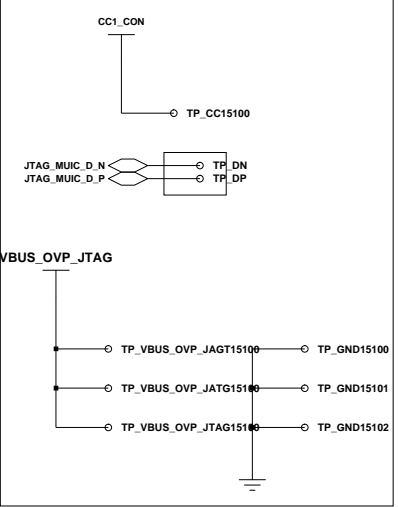
## 2nd MIC



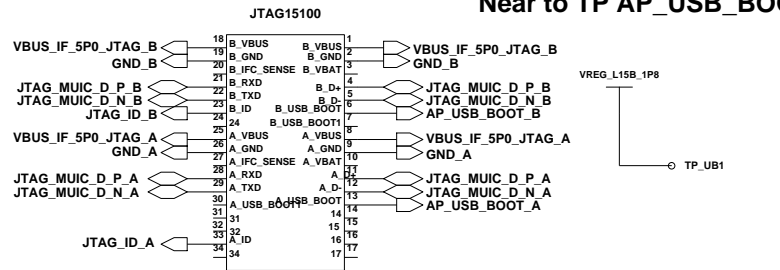
## 3rd MIC

## IF SUB PBA Conn

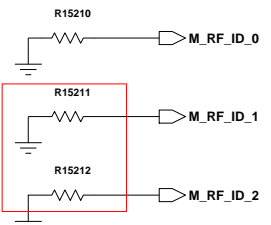
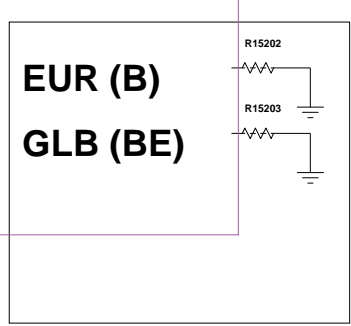
### FOR JIG



CAUTION: PLACEMENT  
Near to TP\_AP\_USB\_BOOT



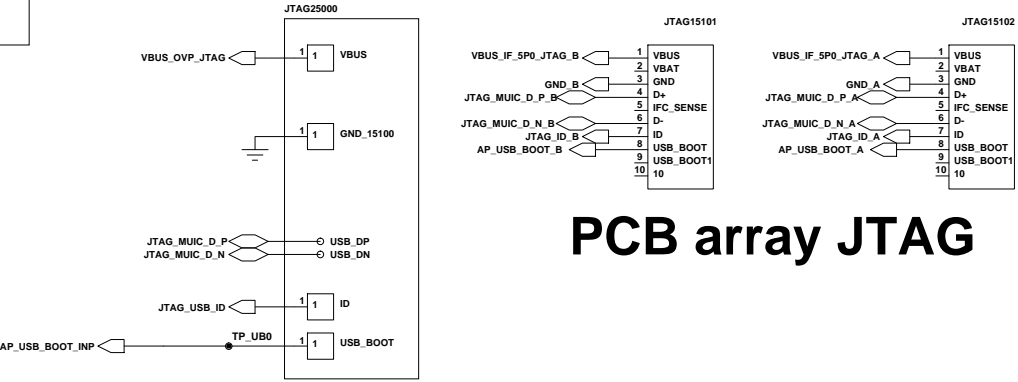
EUR (B)  
GLB (BE)



### M\_RF PBA table

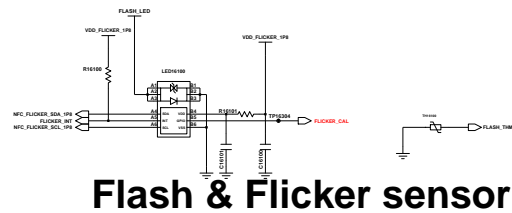
ID	ID_2	ID_1	ID_0	
0	L	L	L	NA_mmW
1	L	L	H	NA_CAN_Sub6
2	L	H	L	CHN_SUB6
3	L	H	H	Global_SUB6
4	H	L	L	JPN_mmW
5	H	L	H	KOR_SUB6
6	H	H	L	EUR_SUB6
7	H	H	H	N/A

## PCB array JTAG



# CAMERA

## Visual

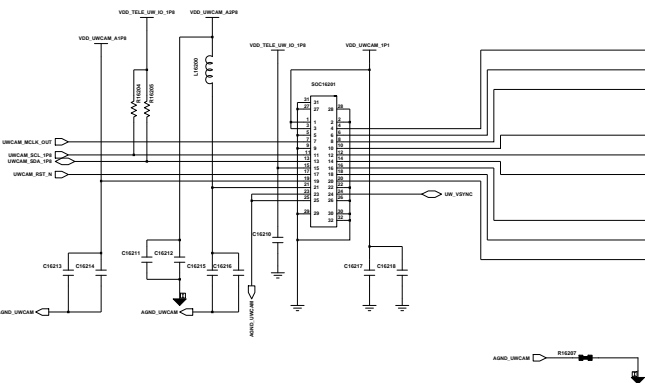


Flash & Flicker sensor

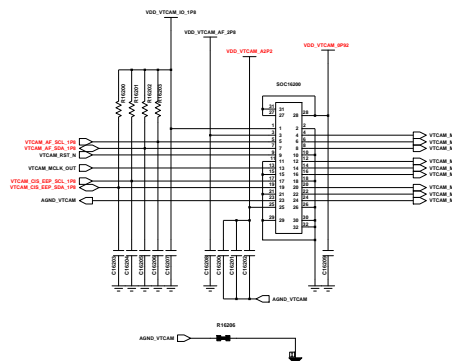
## CAM PMIC (PB02)

## Wide CAM

## Tele CAM



## ULTRA WIDE CAM

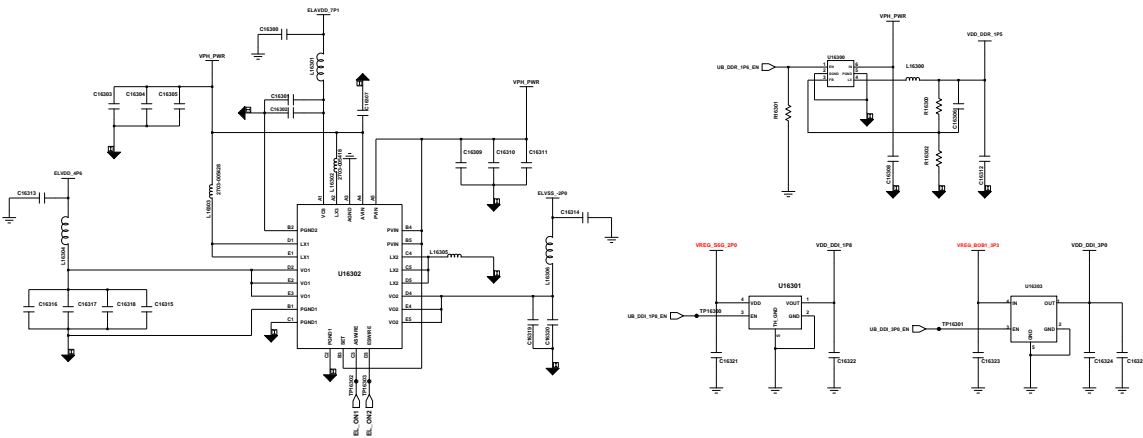


## FRONT CAM

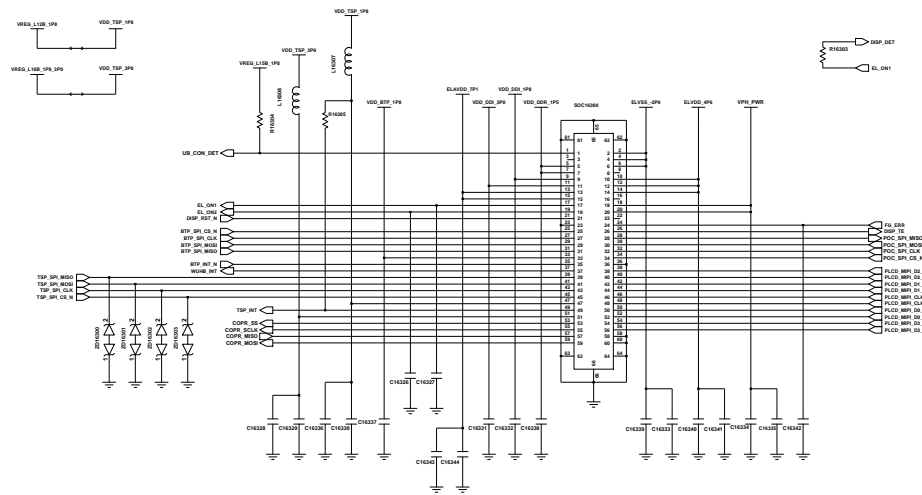
## CAM MCU

# DISPLAY

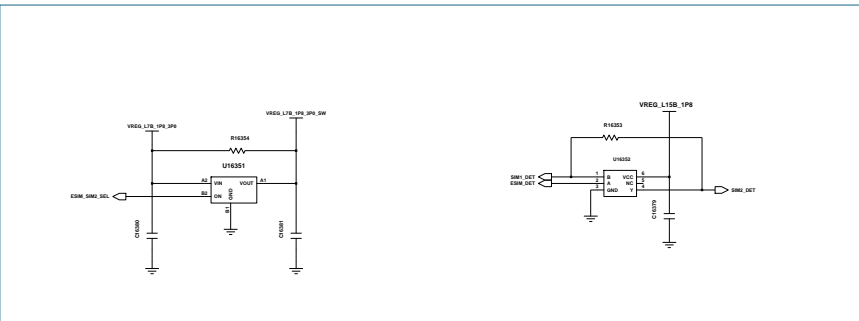
## Visual

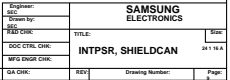


## DISPLAY PMIC (SM3010)



## DISPLAY CONNECTOR





(open)

CON9000

# INP9000



SC9000



JTAG4002

# JTAG4000



	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>																A
B																	B
C																	C
D																	D
E																	E
F																	F
G																	G
H																	H
I																	I
J																	J
K																	K
L																	L
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

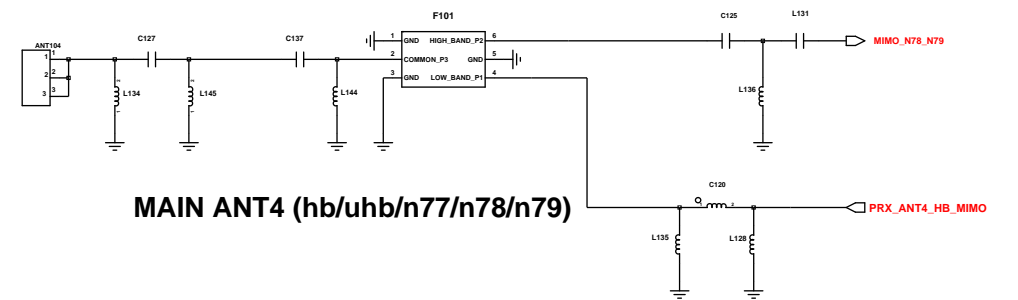
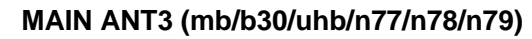
# DM1 IFSUB PBA REV0.7

sheet01 : ANT

sheet02 : LOGIC

2022 . 09. 28.

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

[illegible]

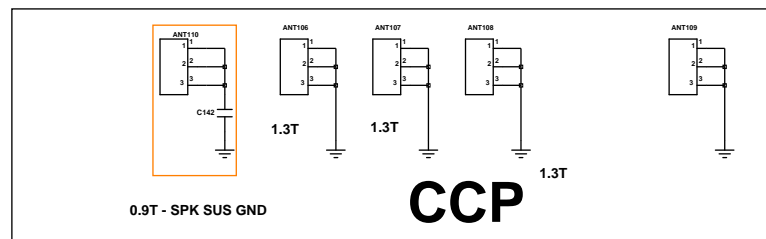
**N41 SRS**

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

# FRC CON



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



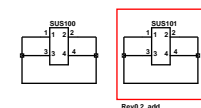
**etc.**



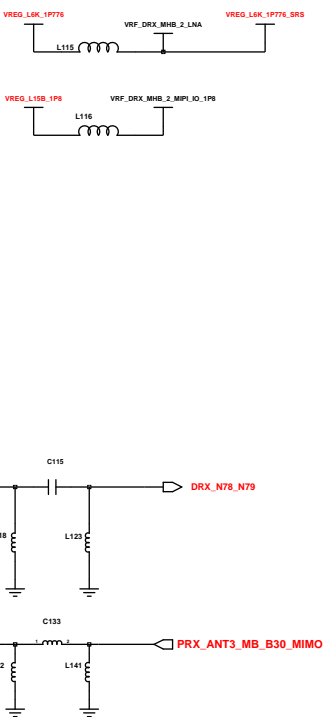
## SHIELD CAN



## BOTHHOLE



**SCREW SUS**



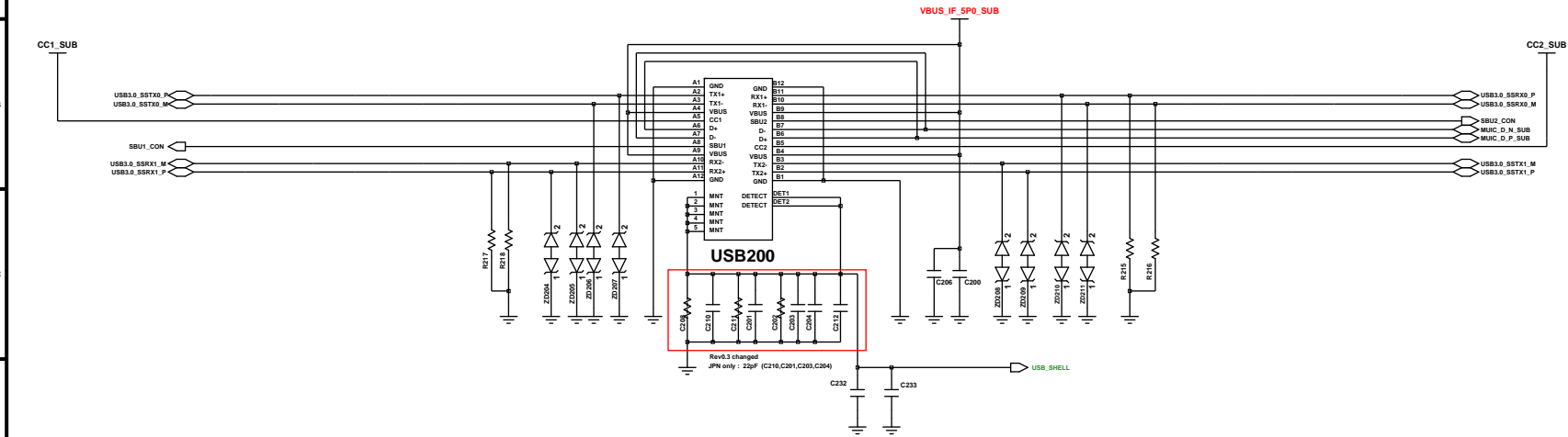
TP100 O SHORT	EUR / GLB
TP101 O NC	NA
TP102 O NC	JPN
TP103 O NC	CHN
TP104 O NC	KOR
TP105 O NC	GLB_RD



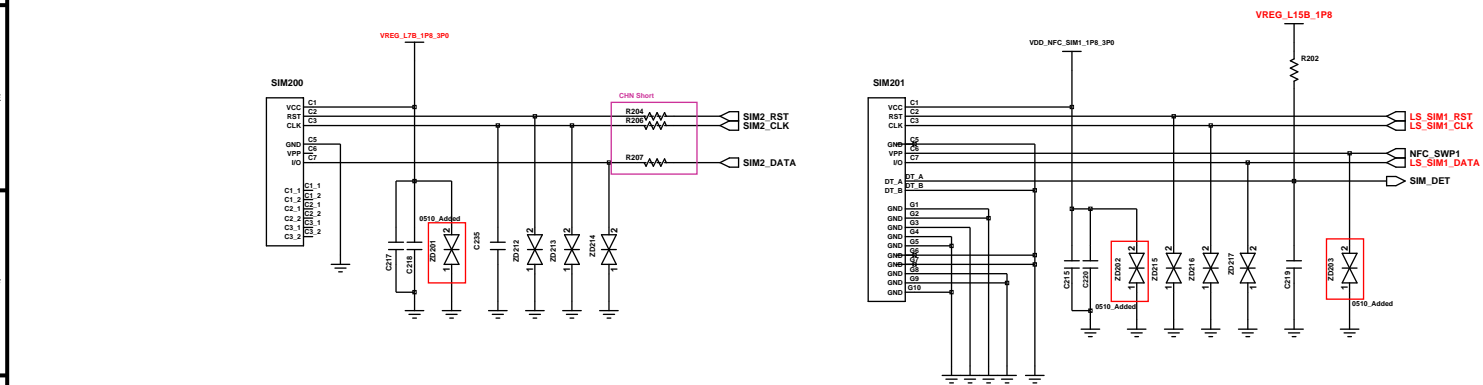
## INSIK MARK

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.

# USB / SIM

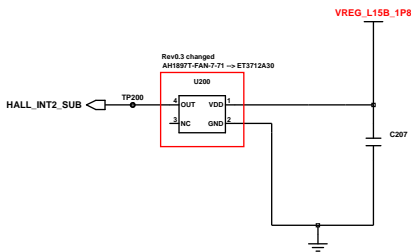


USB TYPE C CONNECTOR  
Deep Drawing

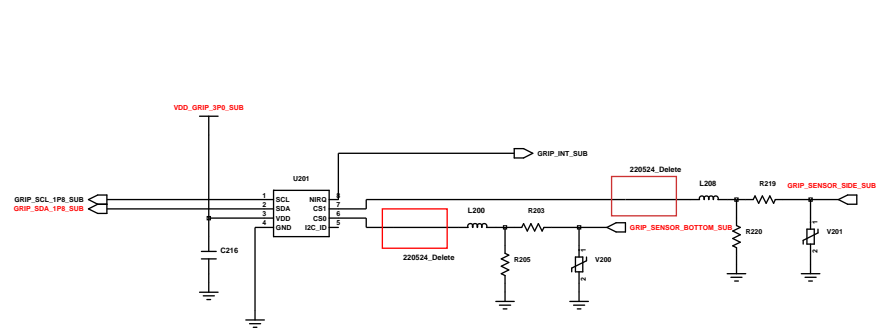


Stacked Dual SIM SOCKET

# SENSOR

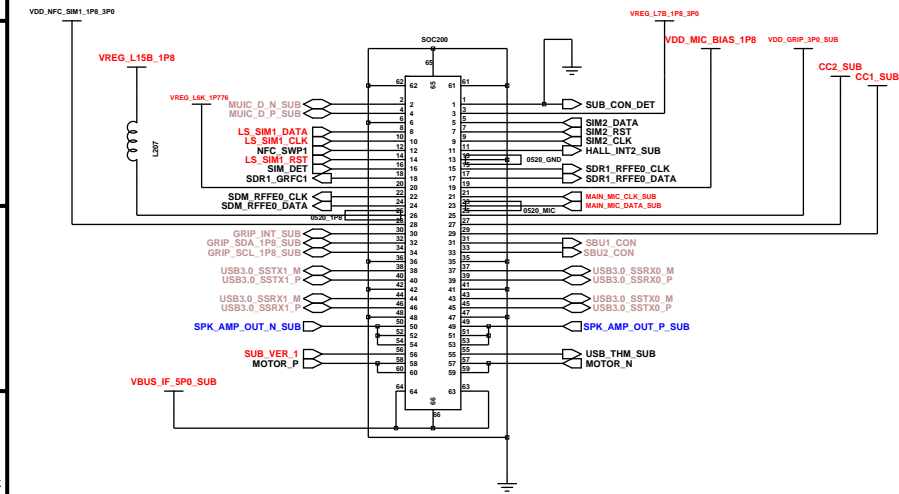


HALL SENSOR



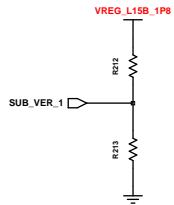
GRIP SENSOR

# BtoB CON



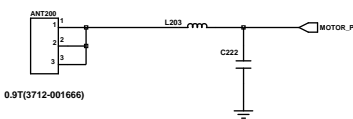
SUB PCB IF CONNECTOR

# SUB VERSION

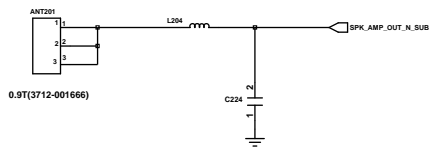
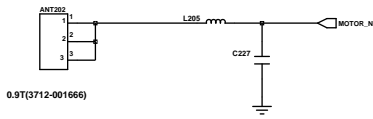


ADC RANGE	TYPICAL VALUE	ID	EXT_PU	EXT_PD	DM1
0 ~ 300	0	8	NC	332K, 1%	EUR_Sub6 Global_Sub6
301 ~ 600	480	0	332K, 1%	120K, 1%	NA_mmW NA_CAN_Sub6
601 ~ 900	720	4	270K, 1%	180K, 1%	CHN_Sub6
901 ~ 1200	1080	5	180K, 1%	270K, 1%	KOR_Sub6_RC
1201 ~ 1400	1320	6	120K, 1%	332K, 1%	JPN_mmW
1401 ~ 1530	1480	7	100K, 1%	470K, 1%	Global_Sub6_RD

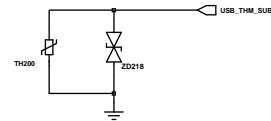
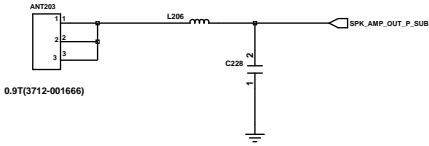
# AUDIO



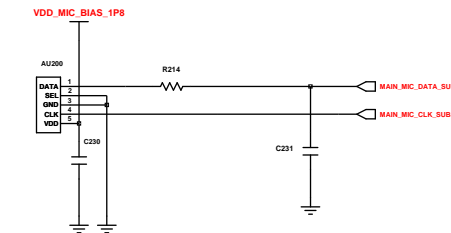
MOTOR conn.



SPK CONTACT

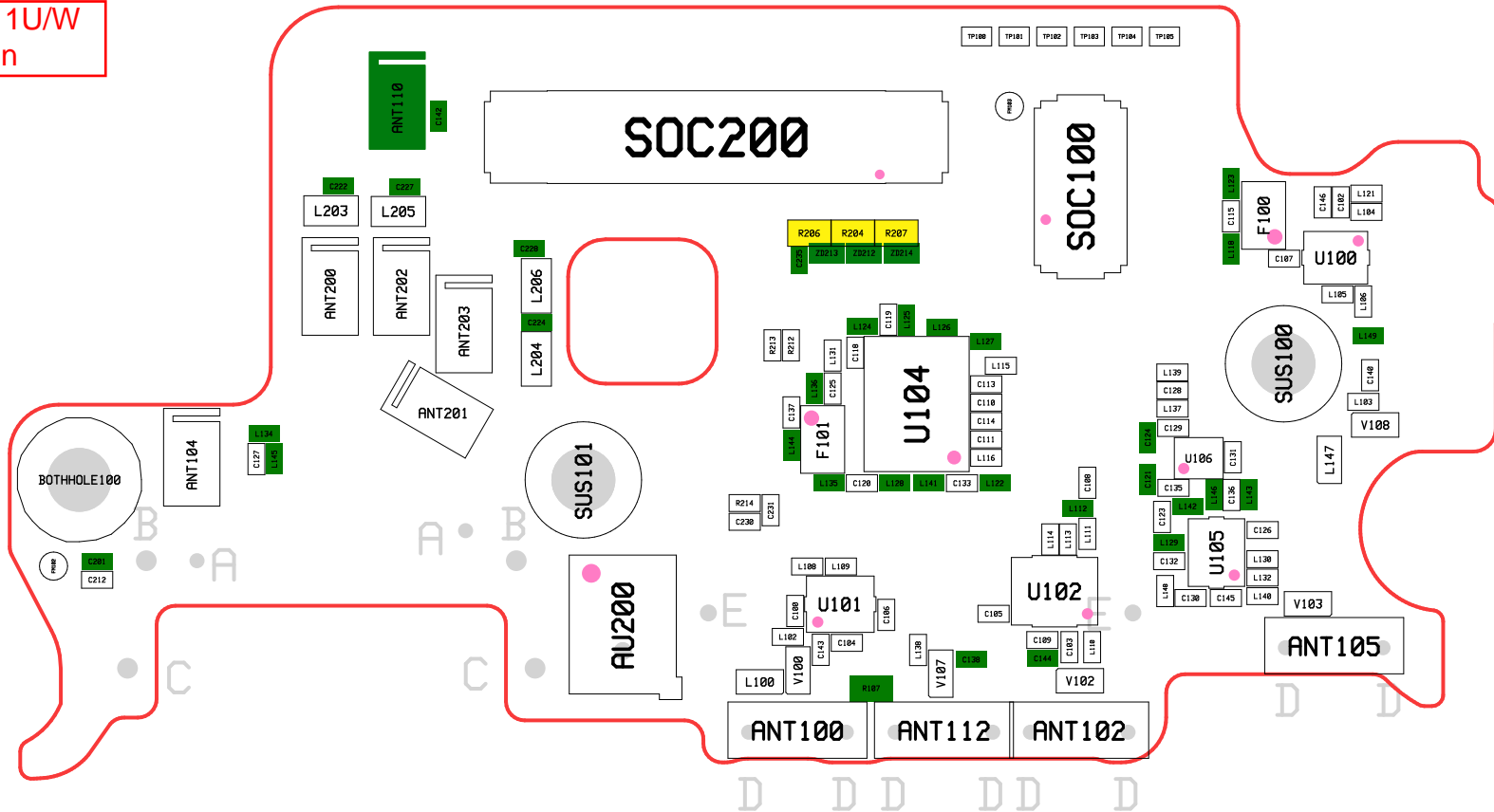


USB/BATTERY THERMISTOR



MAIN MIC

SM-S911U/W  
Common



SM-S911U/W  
Common

