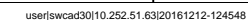


**2016.11.30**

- sheet01 : GSM / WCDMA / LTE RF
- sheet02 : TRANCEIVER, DRX
- sheet03 : JOON(EXYNOS7880), eMMC
- sheet04 : SENSORS, GPS, BT/WIFI, NFC, BTP, FM RADIO
- sheet05 : PMIC(Main,IF), MST, KEY, MOTOR
- sheet06 : Audio, SD/SIM, IF Conn'
- sheet07 : CAMERA, DISPLAY, SHEILD CAN, TDMB

Engineer:			
Drawn by:			
P&ID CHG:	TITLE:		
DOC CTRL CHG:			
WFO ENGR CHG:			
QA CHG:	REV	Drawing Number:	Page

## RF PART 1



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

## RF PART 2

### HIGH BAND PA

FDD LTE: B7  
TDD LTE: B38 / 40 / 41

### MMMB PA

2G: GSM/DCS/PCS/GSM850  
3G: B1/2/4/5/8  
FDD LTE: B1/2/3/4/5/8/17/20/28

### SUB ANT2 (LB)

### SUB ANT1 (MB/HB)

### SUB ANT2 XGND

### SUB ANT2 XGND

### B38/41

### B2

### B40

### B28

### B29

### TRANSCEIVER

### 26MHz TCXO

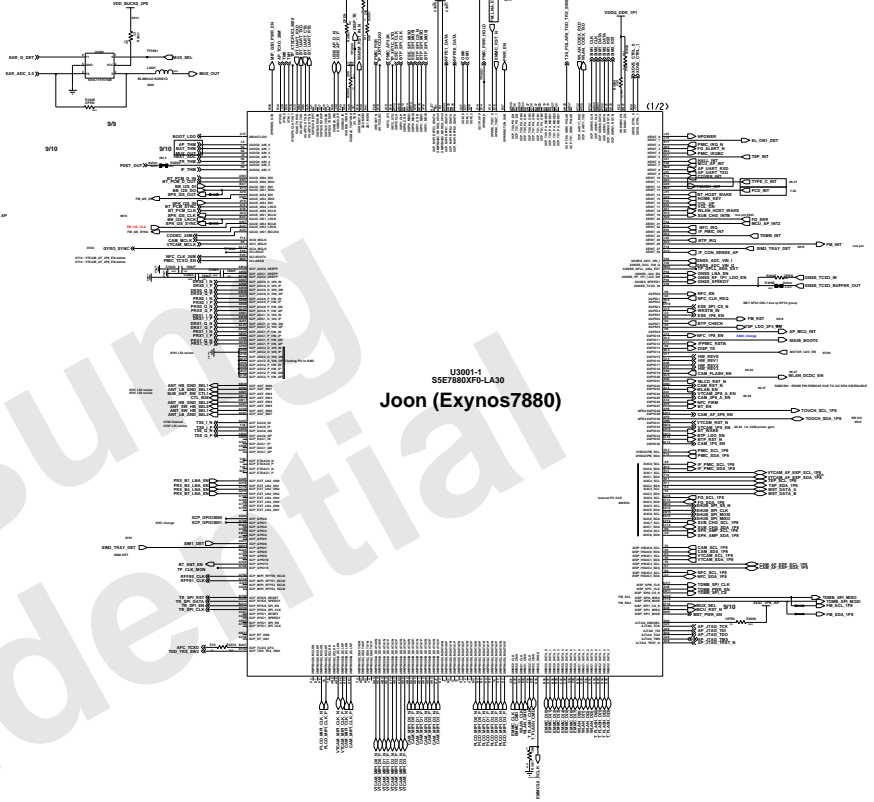
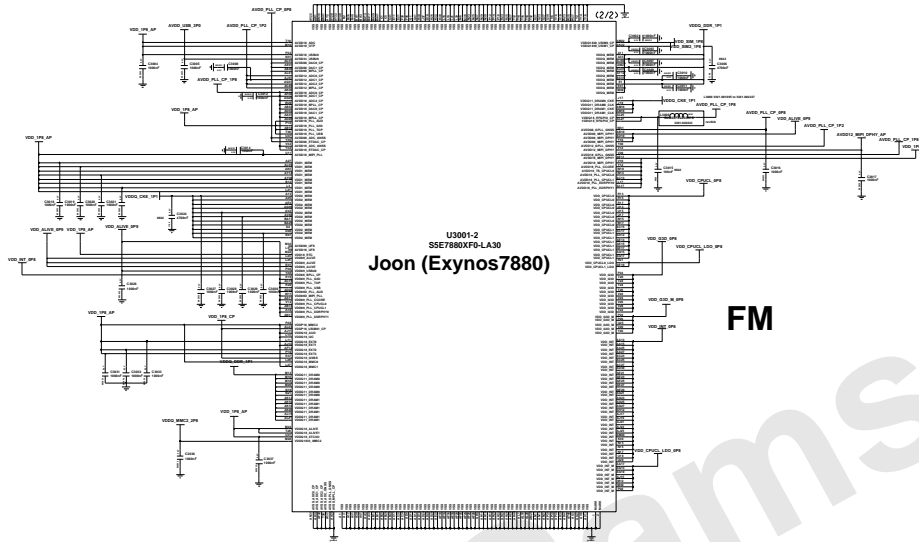
### FOR CANADA

Engineer	RF
Drawn by	
Rev'd by	
Doc Ctl'd by	
Mfg Engr'd by	
REV	Drawing Number
1	01

# EXYNOS7880(JOON)

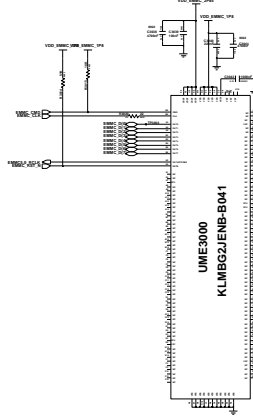
POP LP4 3G : 1st Micron  
2nd SEC

## Salt Water detect MUX

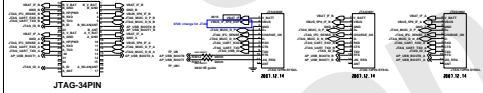


eMMC 32GB 5.1

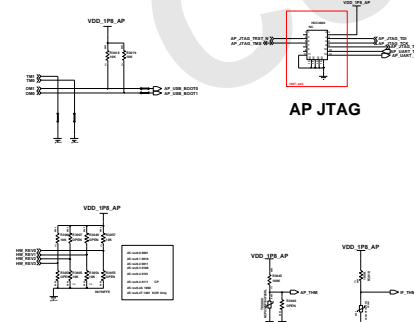
1st : SEC  
2nd : TOSHIBA



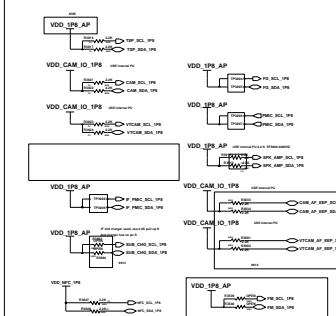
PCB JTAG



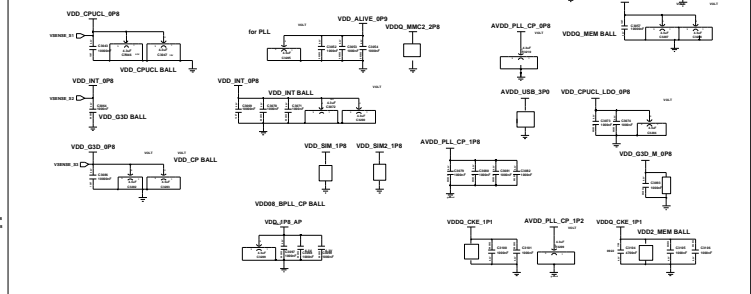
AP JTAG



I2C Pull-up Register



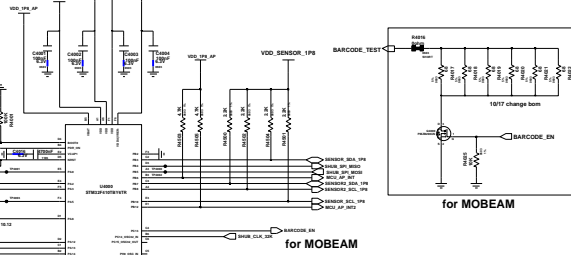
AP Decap



SAMSUNG CONFIDENTIAL  
THIS DOCUMENT CONTAINS SAMSUNG PROPRIETARY INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM SAMSUNG ELECTRONICS CO., LTD.

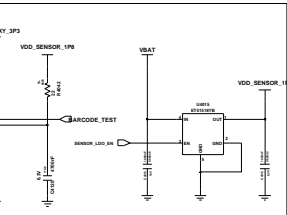
## SENSORS

Debug port

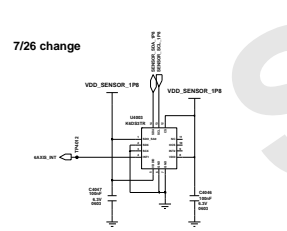


### SENSOR HUB (2017 A)

### PROXY+RGB FPCB TMD3725(AMS)

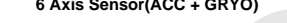


### Magnetic Sensor

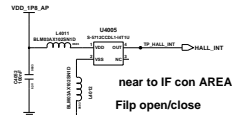


### Pressure Sensor

### 6 Axis Sensor(ACC + GRYO)



### Hall IC

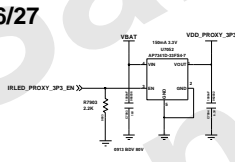


### View Cover Detect



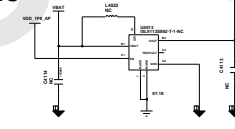
6/27

### Sensor LDO

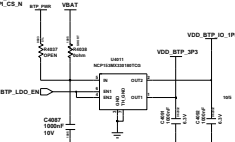


## BTP + HOME KEY

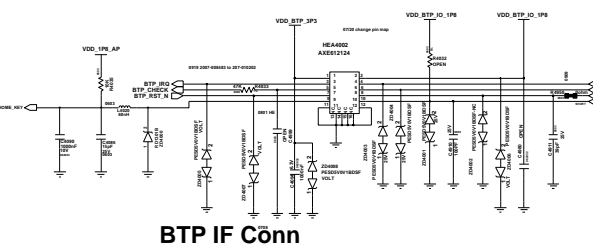
### NC BTP DC-DC



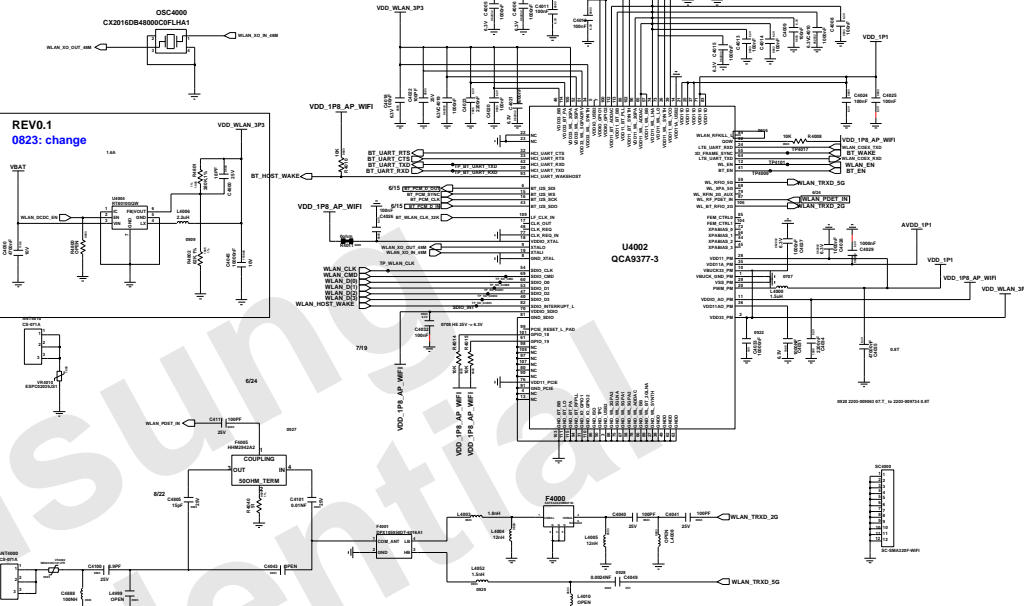
### BTP OCP and PWR



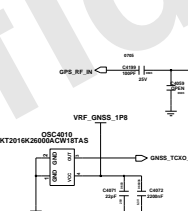
### BTP IF Conn



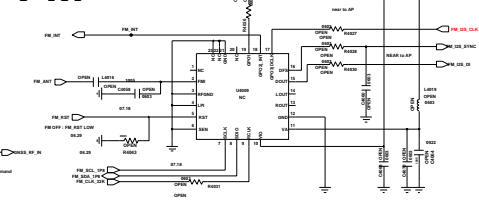
## BT/WIFI



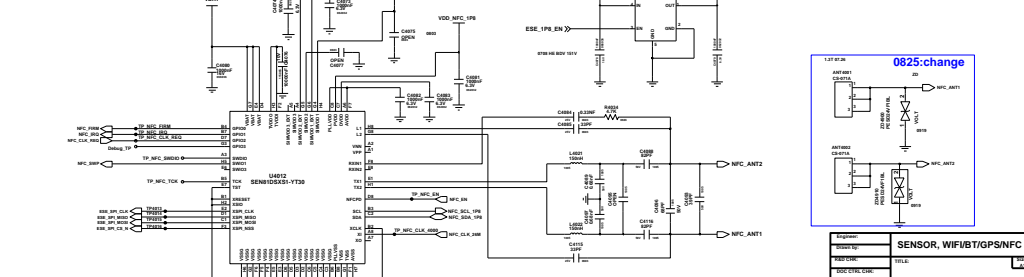
## GPS



## FM



## NFC



# Main\_PMIC

# IF\_PMIC

**IF PMIC (S2MU004) MAIN CHG**

**BAT THEM**

REPLACE NEAR IF CON

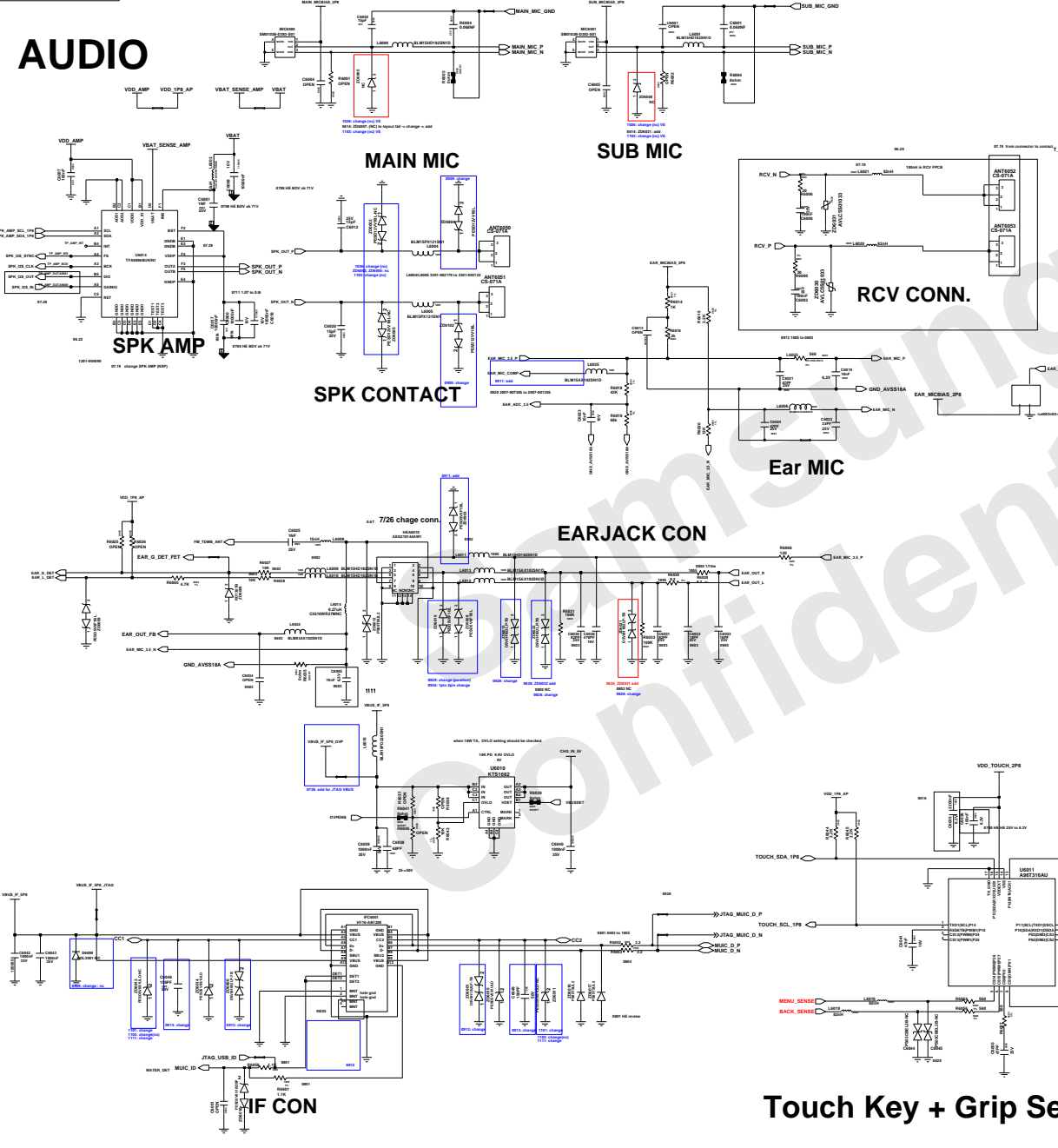
# MST

The diagram illustrates the electrical wiring for a motor control system. It features a three-phase supply (L1, L2, L3) connected to a motor (M1) via a circuit breaker (CB) and a fuse (F). The motor is rated at 1000 W, 230 V, 50 Hz. The schematic includes various electrical symbols and numerical values for ratings and dimensions. A large 'Confidential' watermark is present across the diagram.

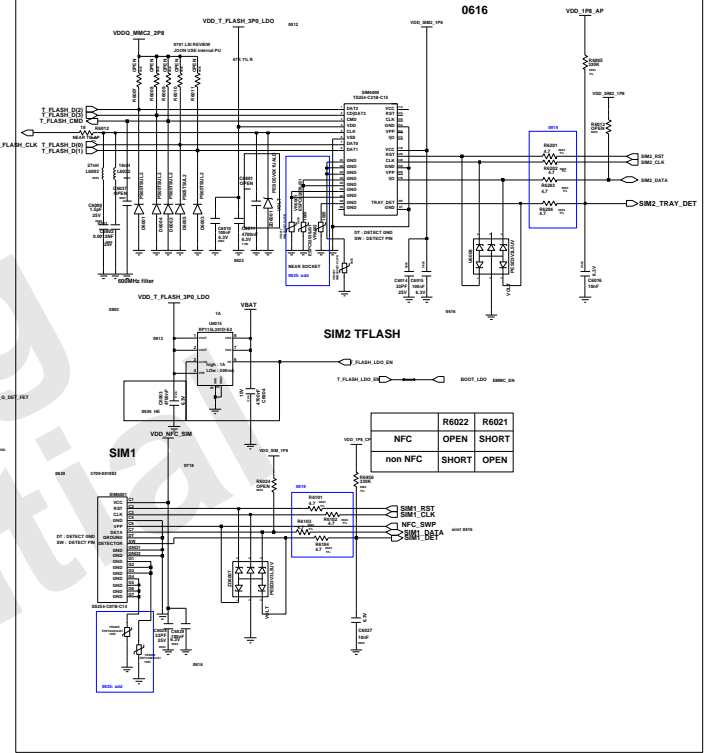
[illegible]

SAMSUNG CONFIDENTIAL  
THIS DOCUMENT IS UNCLASSIFIED  
REGULATORY INFORMATION ONLY  
NOT FOR DISSEMINATION TO THE PUBLIC  
EXCEPT AS AUTHORIZED BY SAMSUNG

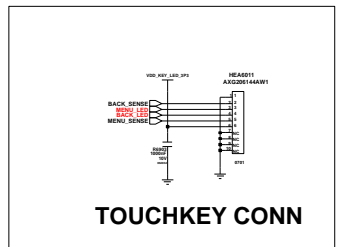
# AUDIO



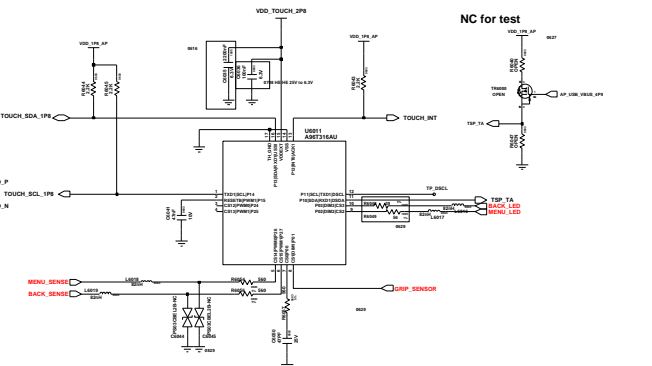
# SIM & SD



# TOUCHKEY CONN



# Touch Key + Grip Sensor



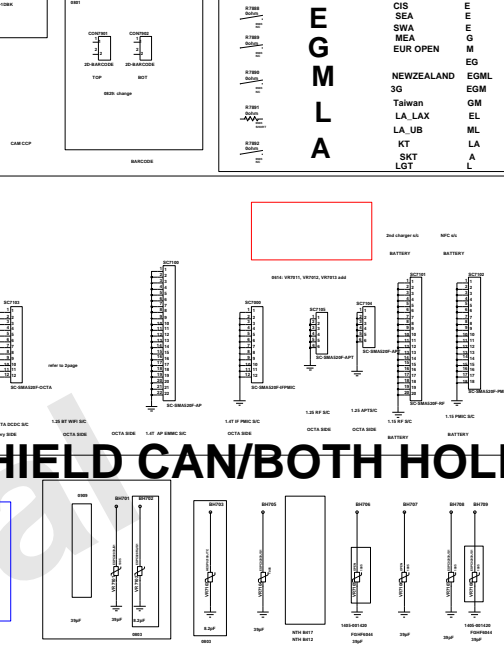
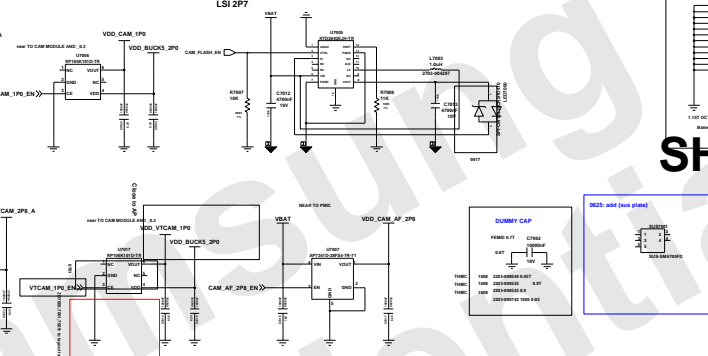
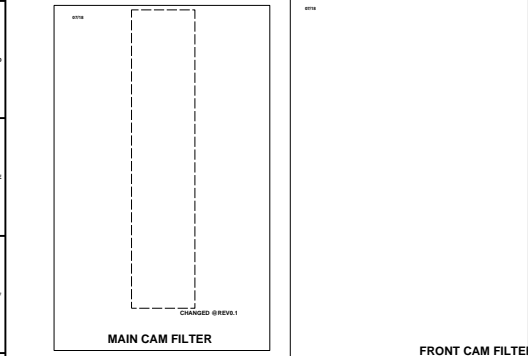
Item	Value	Unit
1	10K	Ω
2	10K	Ω
3	10K	Ω
4	10K	Ω
5	10K	Ω
6	10K	Ω
7	10K	Ω
8	10K	Ω
9	10K	Ω
10	10K	Ω
11	10K	Ω
12	10K	Ω
13	10K	Ω
14	10K	Ω
15	10K	Ω
16	10K	Ω



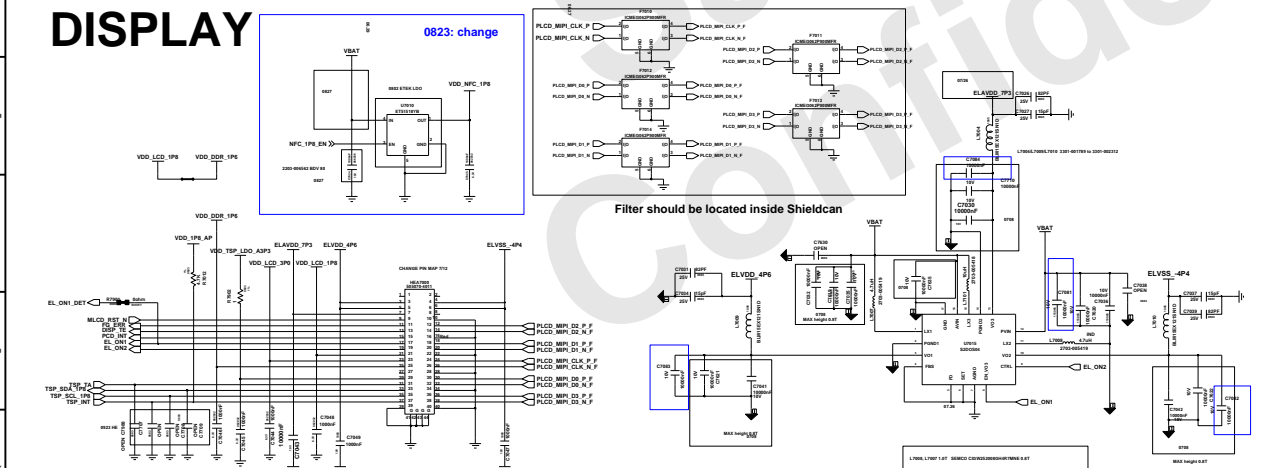
# CAMERA

VDD CAM 1P8

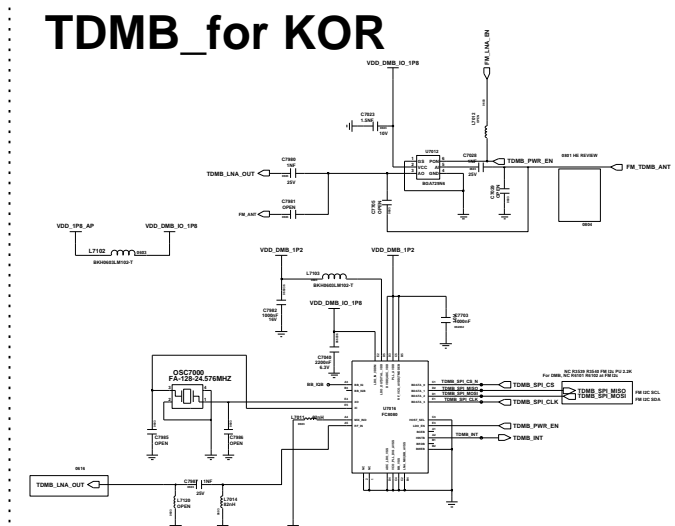
LSI 3P8 with PDAF



## DISPLAY



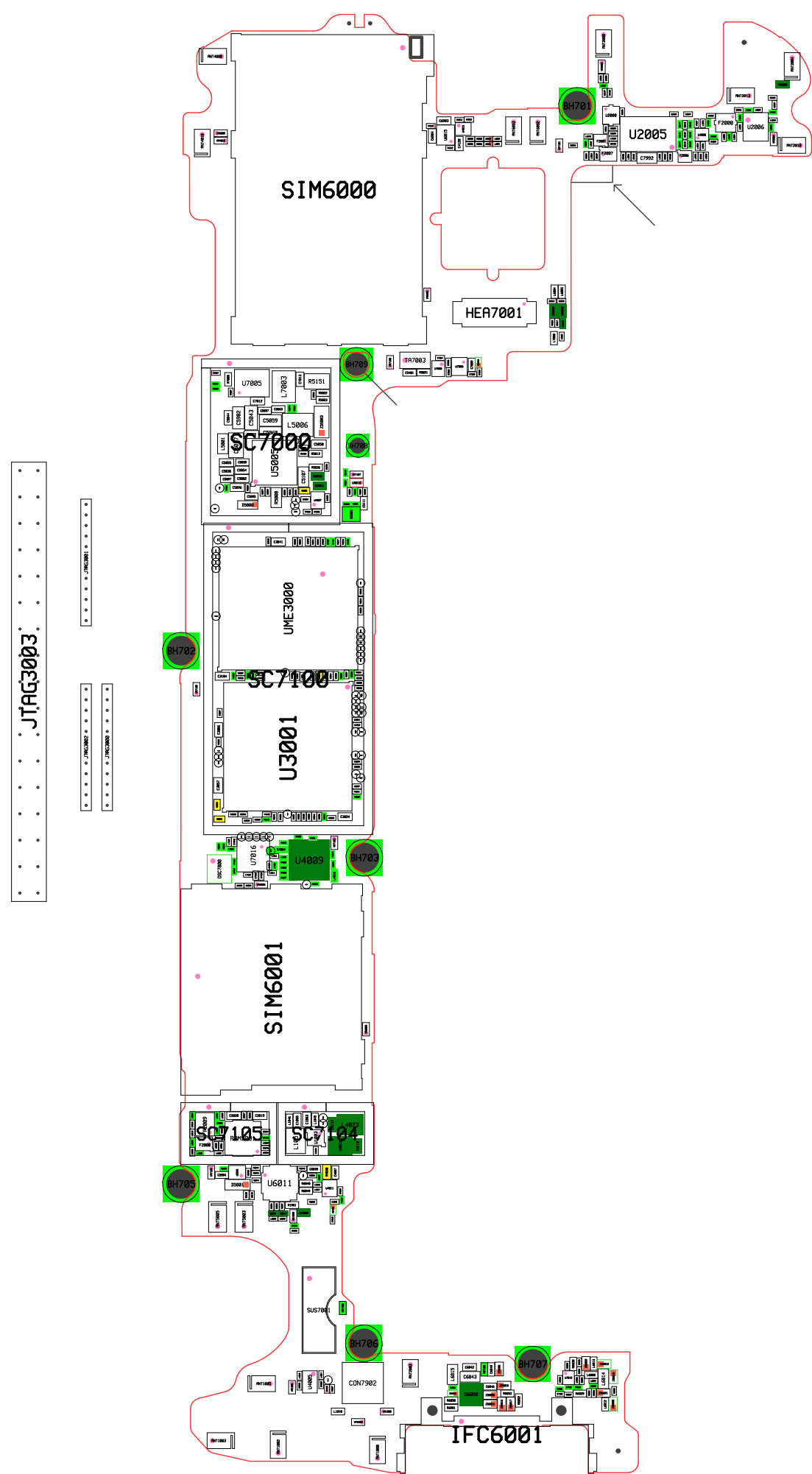
# TDMB\_for KOR





Model : SM-A520S/K/L  
Revision : REV04T  
Manufacture Count : 100  
Charge : 김중수  
Contact : 01062961995  
Date : 2016-12-14  
Routing : ○  
Resin : ○

VX\_Setup(2016-01-20)\_HHP

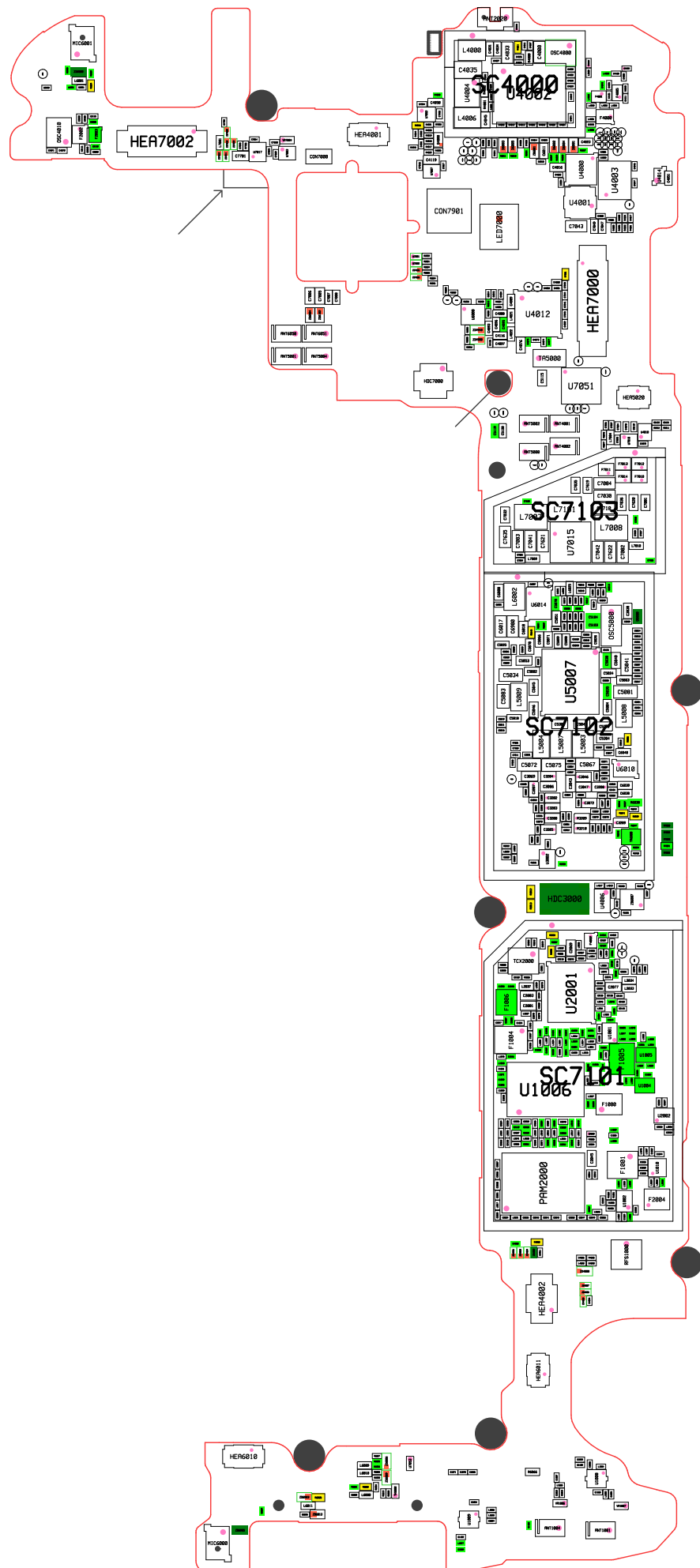


	○			
	○			
	○			
	○			
	○			
	○			
	○			
	○			
	①			
	⊕			
	⊗			
	□			
	⊠			
	+			
	×			
	※			
	◇			

AON1605(U5010) : IT'S Wrong P  
olarity possibility. Check the  
Pin1

Model : SM-A520S/K/L  
Revision : REV04T  
Manufacture Count : 100  
Charge : 김종수  
Contact : 01062961995  
Date : 2016-12-14  
Routing : ○  
Resin : ○

# VX\_Setup(2016-01-20)\_HHP



			○	
			○	
			○	
			○	
			○	
			○	
			⊖	
			○	
			○	
			○	
			○	
			○	
			①	
			②	
			③	
			□	
			田	
			+	
			×	
			米	
			◇	

AON1605(U5010) : IT'S Wrong Polarity possibility. Check the Pin1