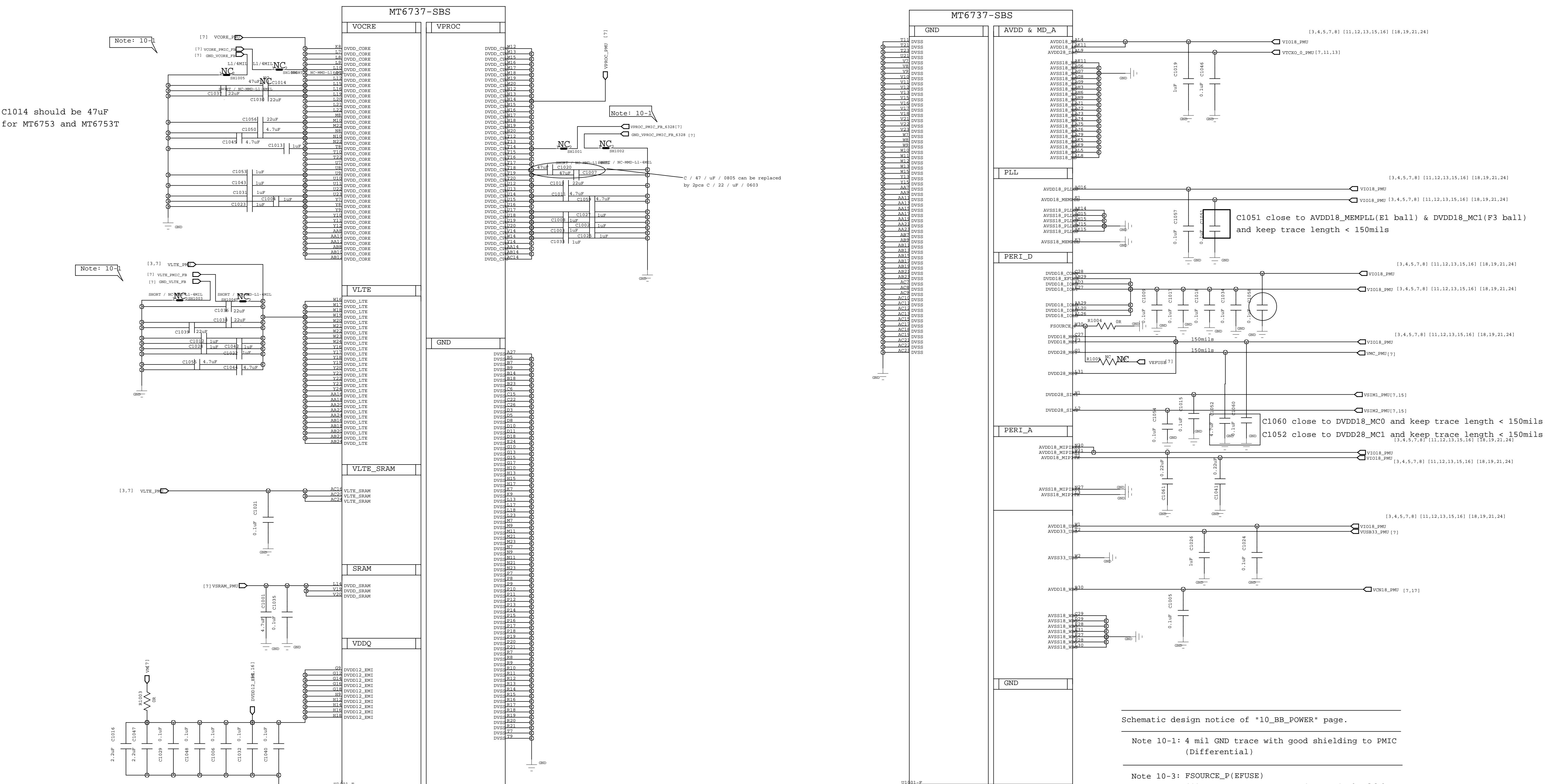


I2C	Function	I2C Spec.	Budget Timing	I2C Slave Address (7-bit mode)
I2C-0	Rear Camera - 13M	400 Kbps	Yes.	Rear camera (IMX135) I2C address: 0X10 (Write:0x20, Read:0x21) AF driver (DW9714A) I2C address: 0x0C (Write:0x18 , Read:0x19)
	Front Camera	400 Kbps	Yes.	Front camera (GC2355) I2C address: 0x3C (Write:0x78, Read:0x79)
I2C-1	CTP	400 Kbps	Yes..	GT1151 / CTP I2C address: 0X5D (Write:0xBA, Read:0xBB) or 0x14 (Write:0x28, Read:0x29)
I2C-2	M Sensor	2.5 Mbps		AK09911 / M-Sensor I2C Address: 0x0D (Write:0x1A, Read:0x1B)
	Gyro Sensor	400 Kbps	Yes.	ITG1010 / Gyro I2C Address: 0x68 (Write:0xD0, Read:0xD1)
	Accelerometer	400 Kbps		MC3410 / Accelerometer I2C address: 0x4C (Write:0x98, Read:0x99)
	RGB / PS Sensor	400 Kbps		CM36652 / RGB+PS I2C address: 0X60 (Write:0xC0, Read:0xC1)
	NFC	1.2 Mbps	Yes.	MT6605 / NFC I2C address: 0X28 (Write:0x50, Read:0x51)
	Flashlight Driver	400 Kbps		LM3642 / Flashlight Driver I2C address: 0X63 (Write:0xC6, Read:0xC7)
I2C-3				

Note : I2C Spec. : Standard mode (100 kbps) and Fast mode (400 kbps), Fast mode Plus (1 Mbps) and High-speed mode (3.4 Mbps)

Title 02_I2C_ID_OVERVIEW	
Size D	Yude Confidential
Data Sep 14,2016	Sheet 11 of 99



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Schematic design notice of "10\_BB\_POWER" page.

---

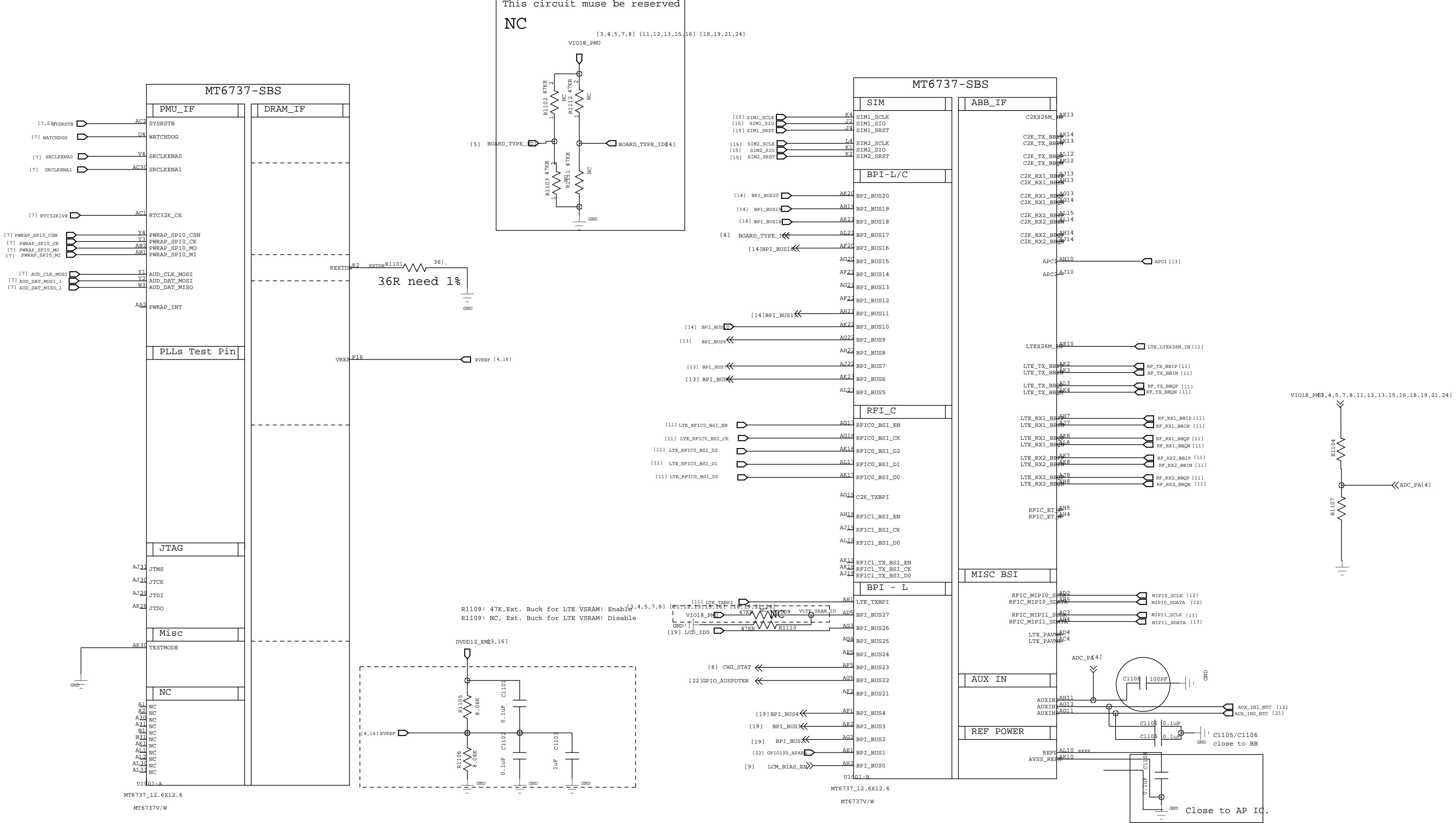
Note 10-1: 4 mil GND trace with good shielding to PMIC  
(Differential)

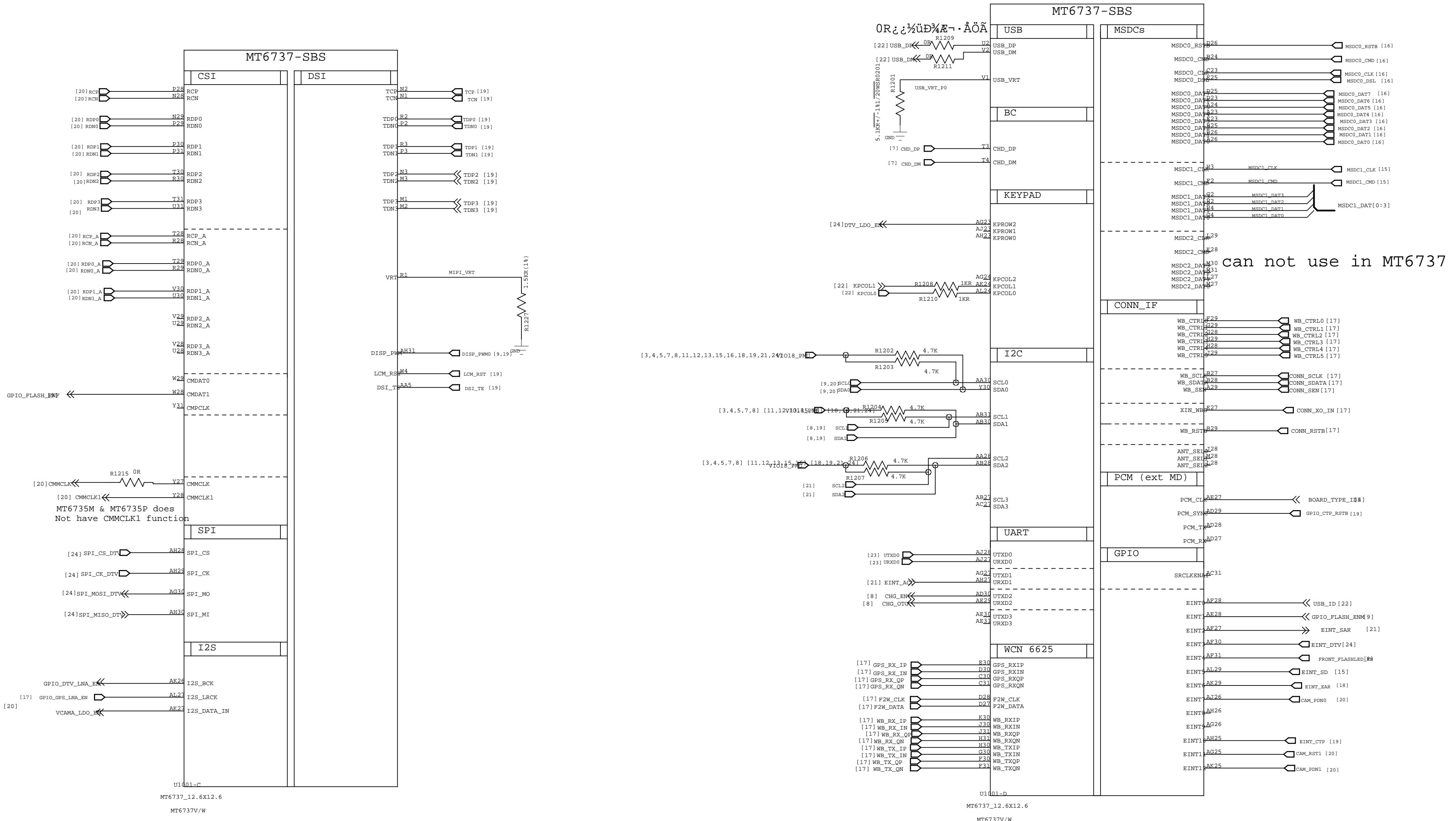
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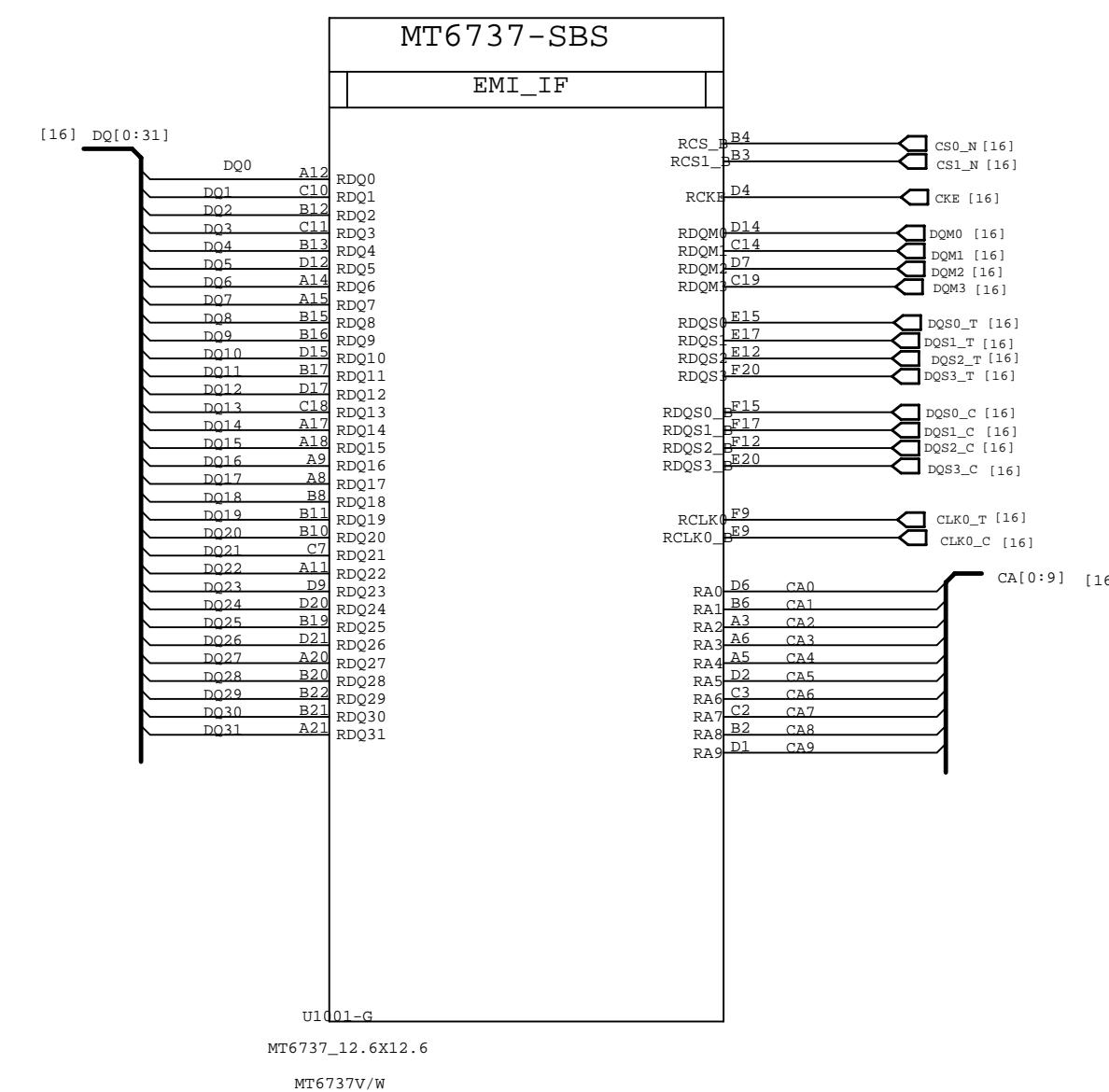
Note 10-3: ESOURCE P(EEUSE)

Note 10-3: FSOURCE\_1(EFUSE),

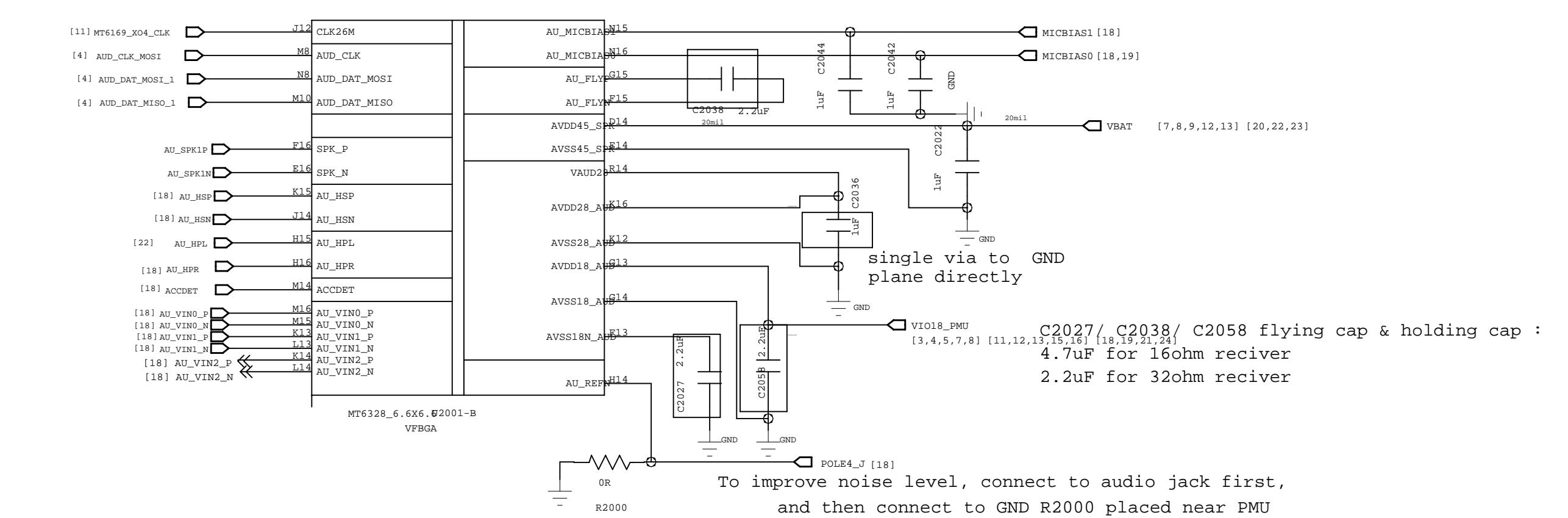
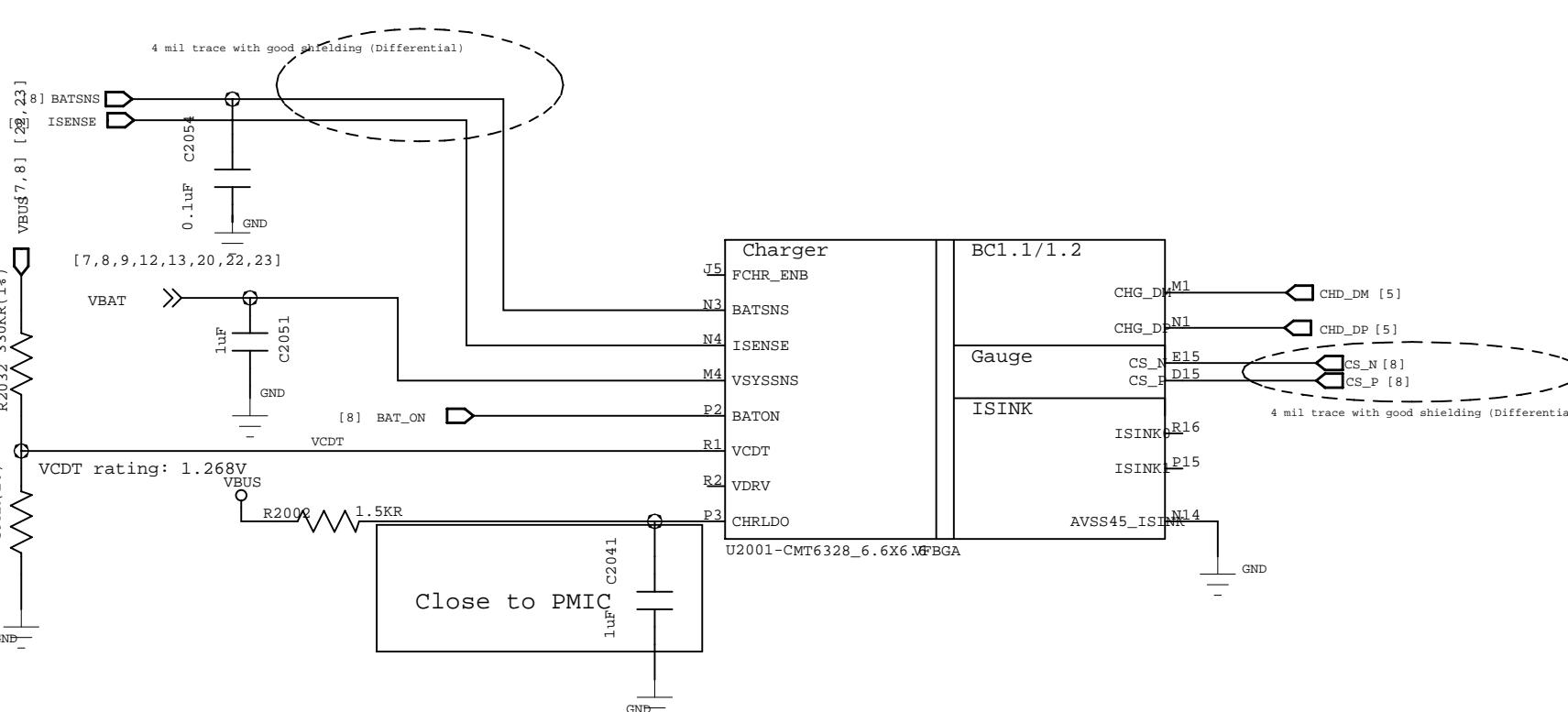
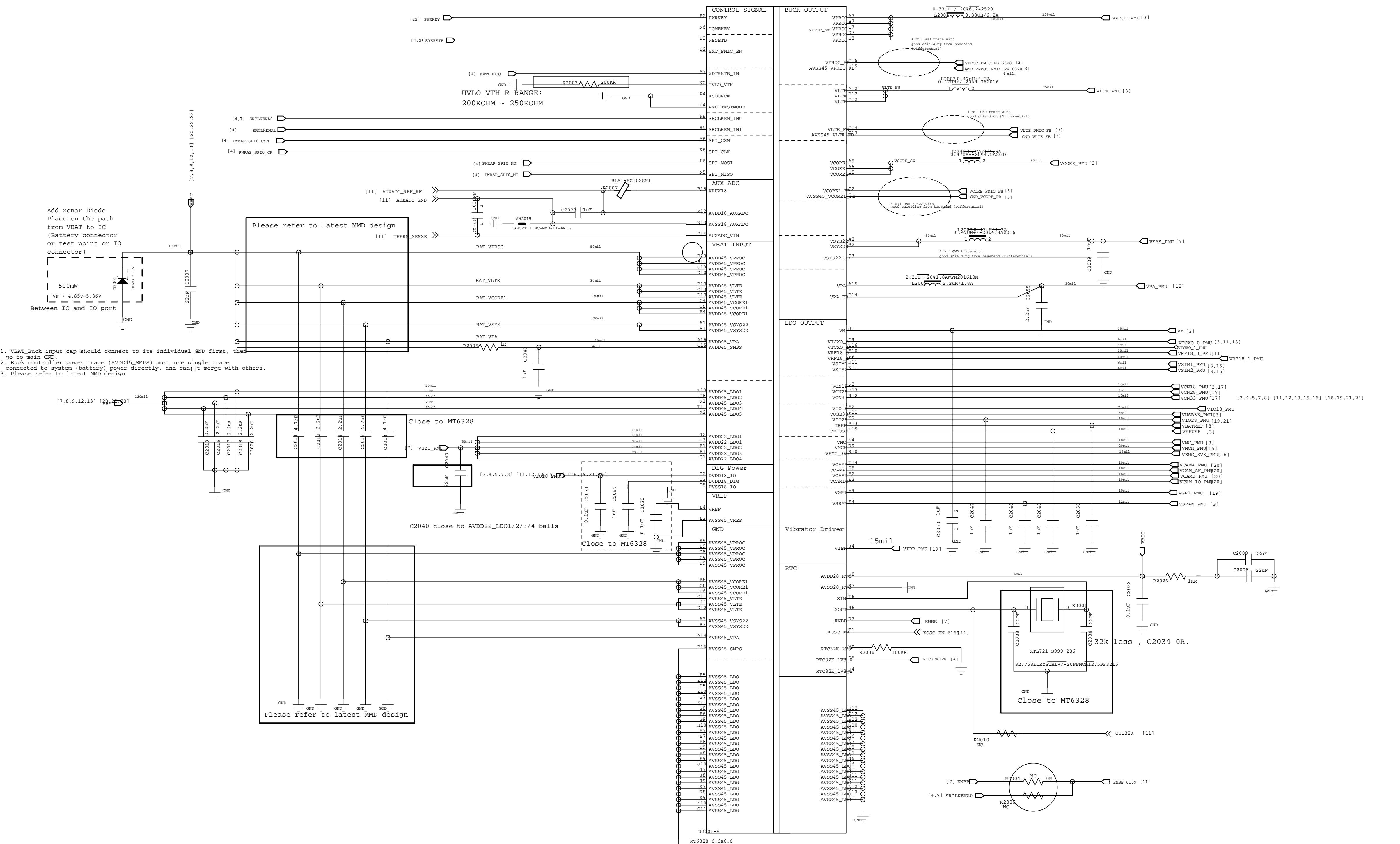
- (1) FSOURCE\_P EFUSE power(VEFUSE) should be only for EFUSE usage(not share with other application)
- (2) W/I EFUSE program, VEFUSE need 1uF bypass cap  
(pls refer to ;\$LDO output voltage/current table;")
- (3) W/O EFUSE program, VEFUSE bypass cap should be NC.







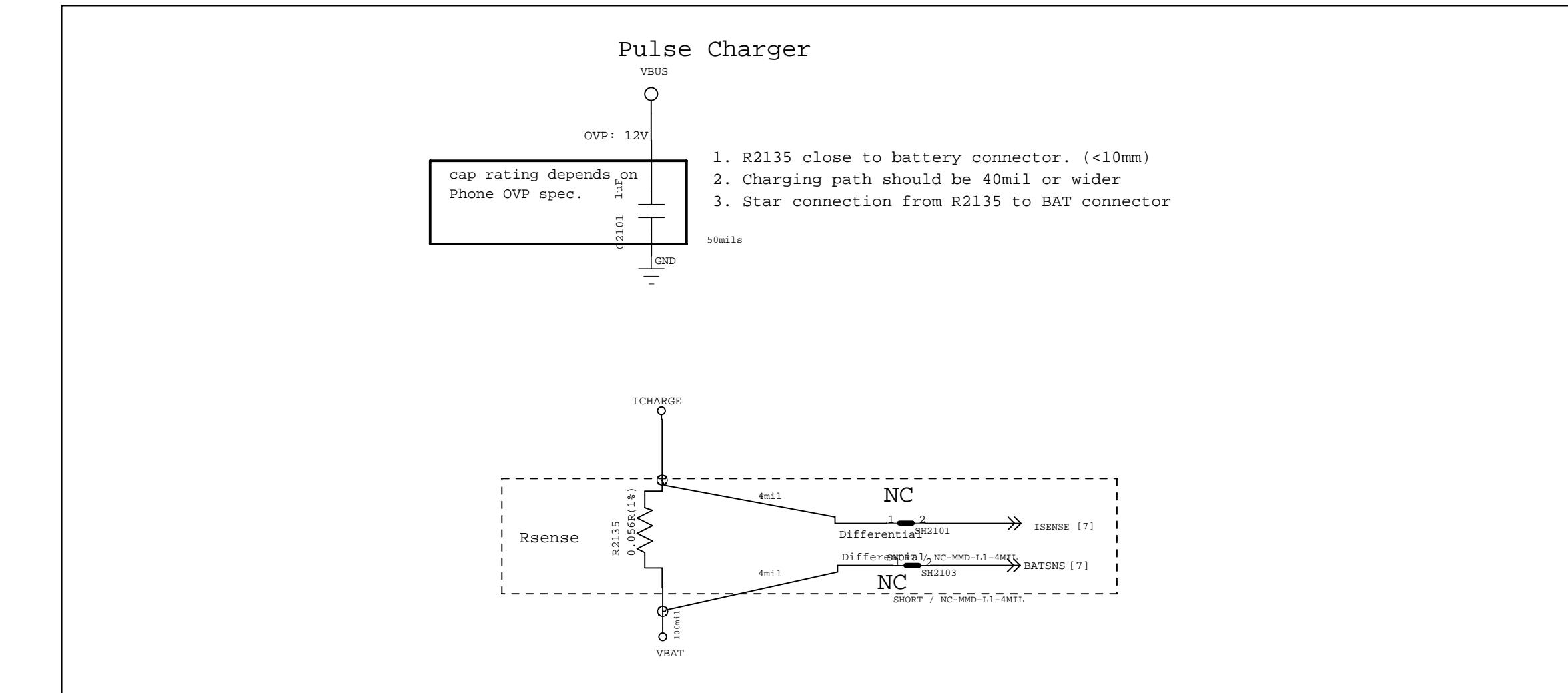
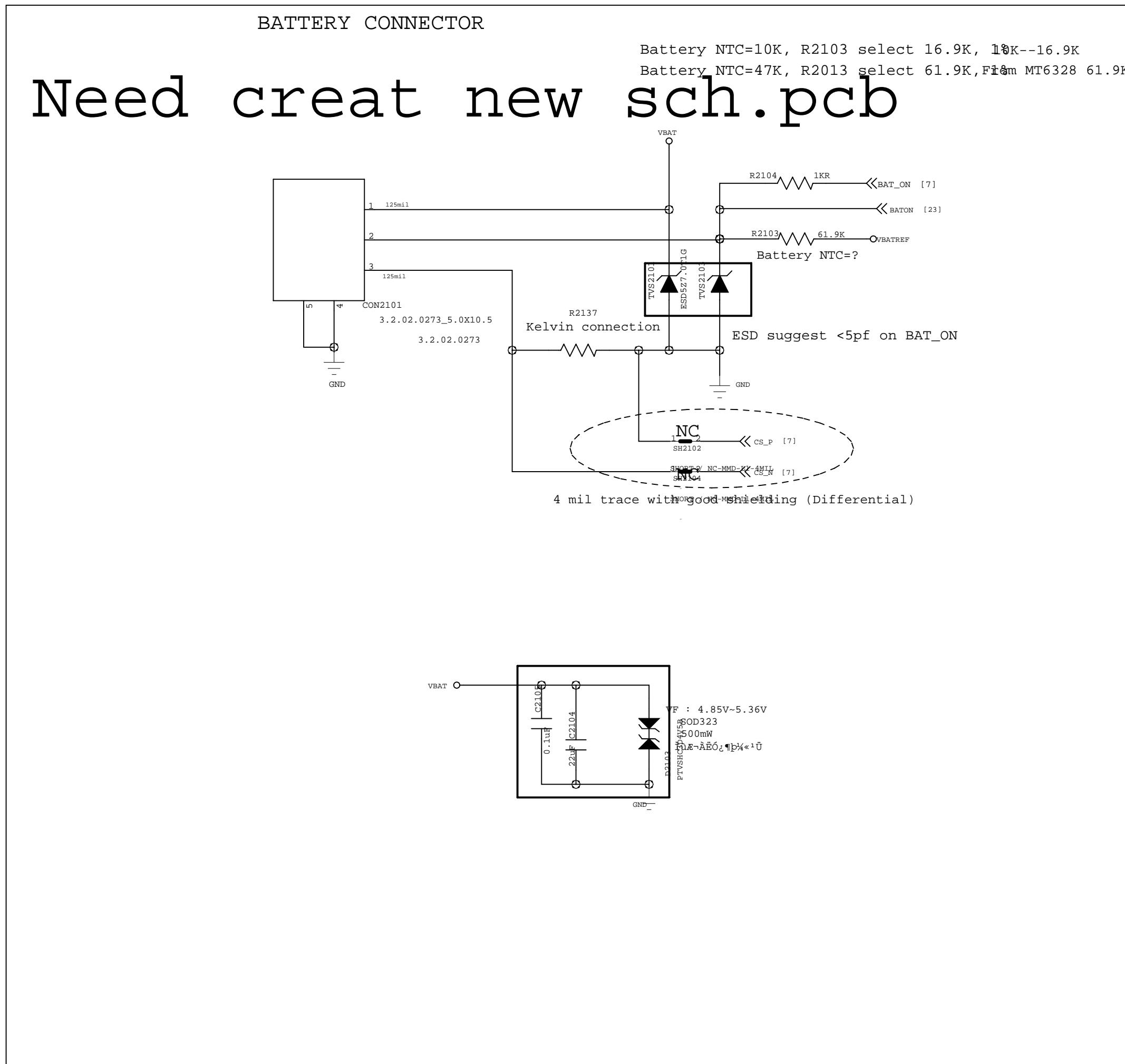
Title 13_BB_3	
Size D	Yude Confidential
Data Sep 14, 2016	Sheet 11 of 99



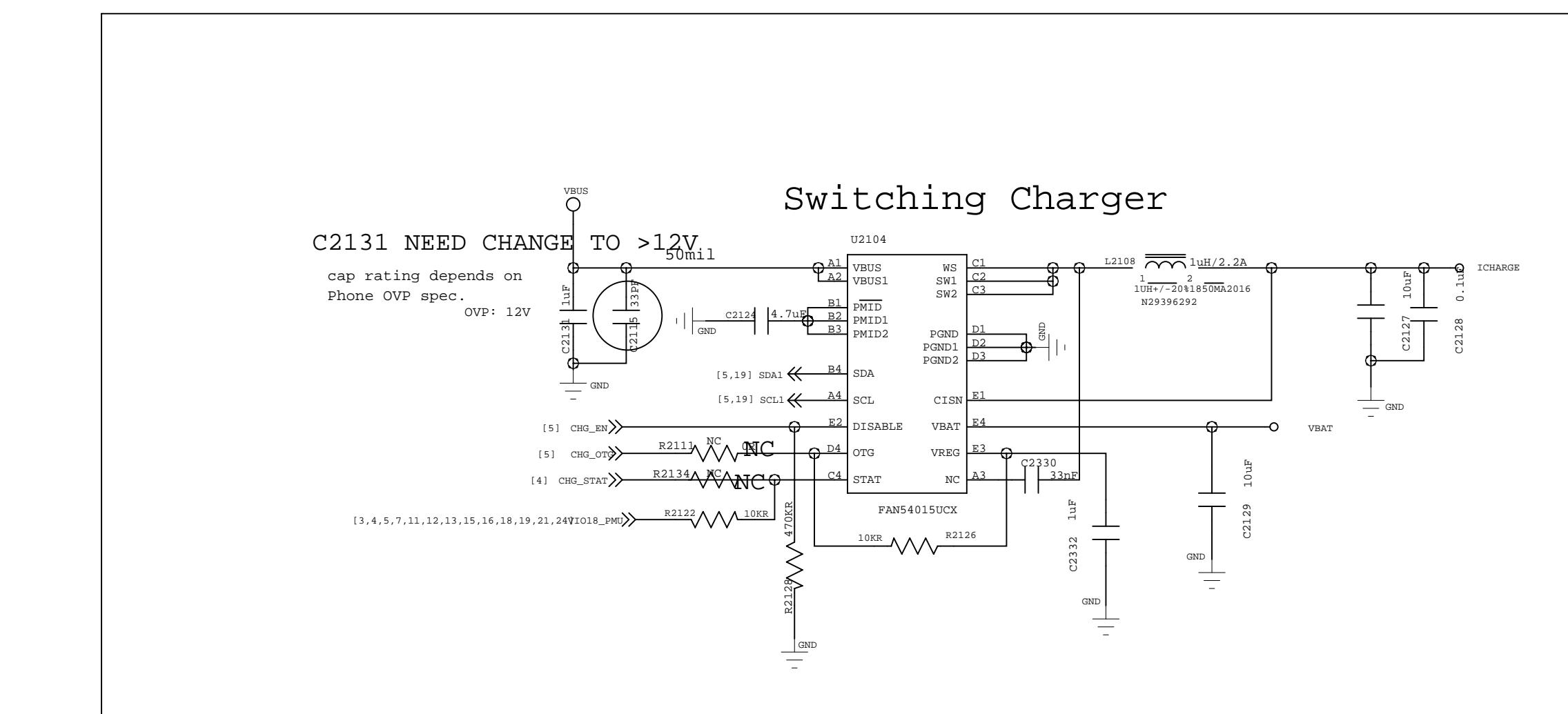
Title 20\_POWER\_MT6328

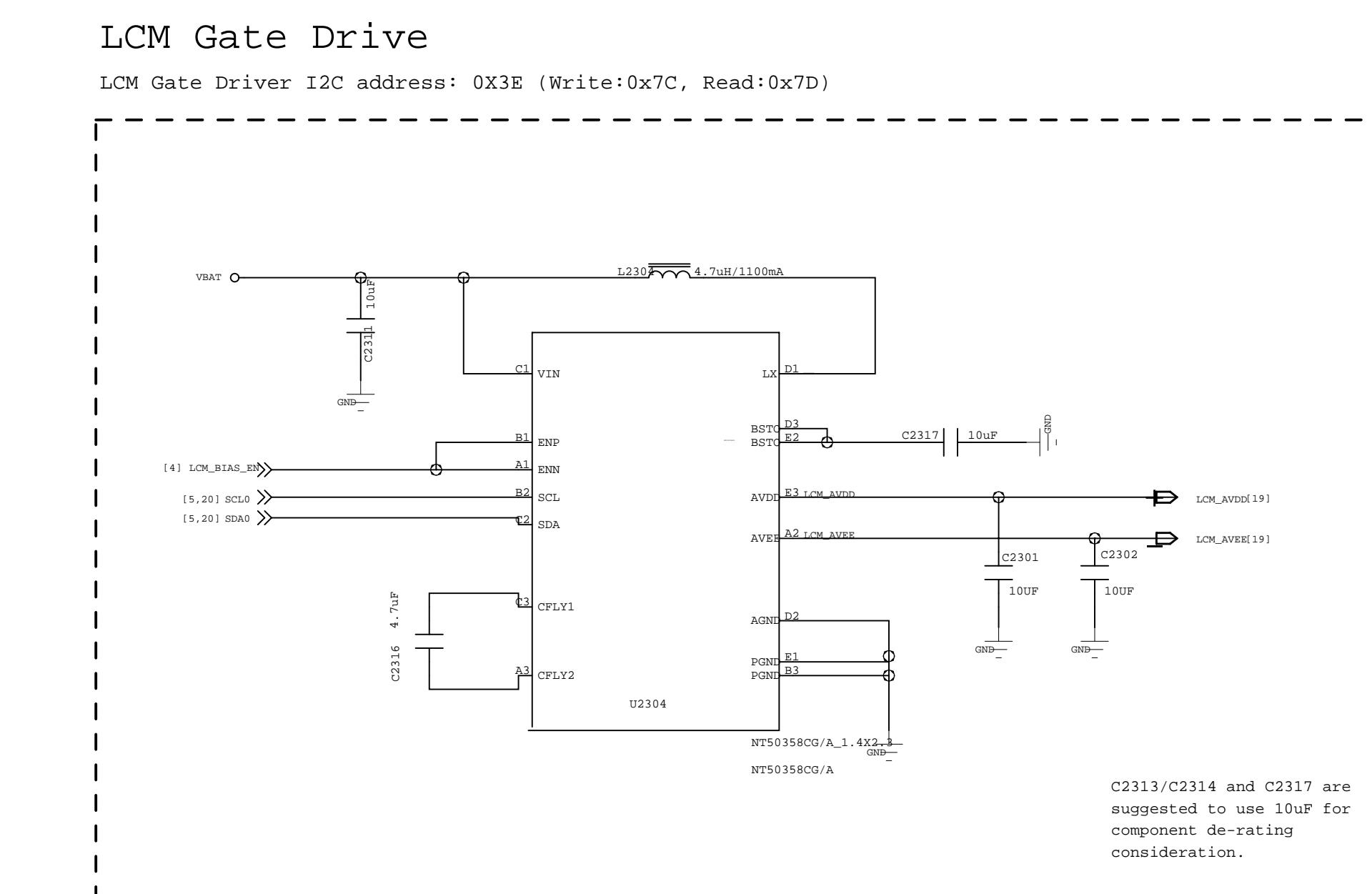
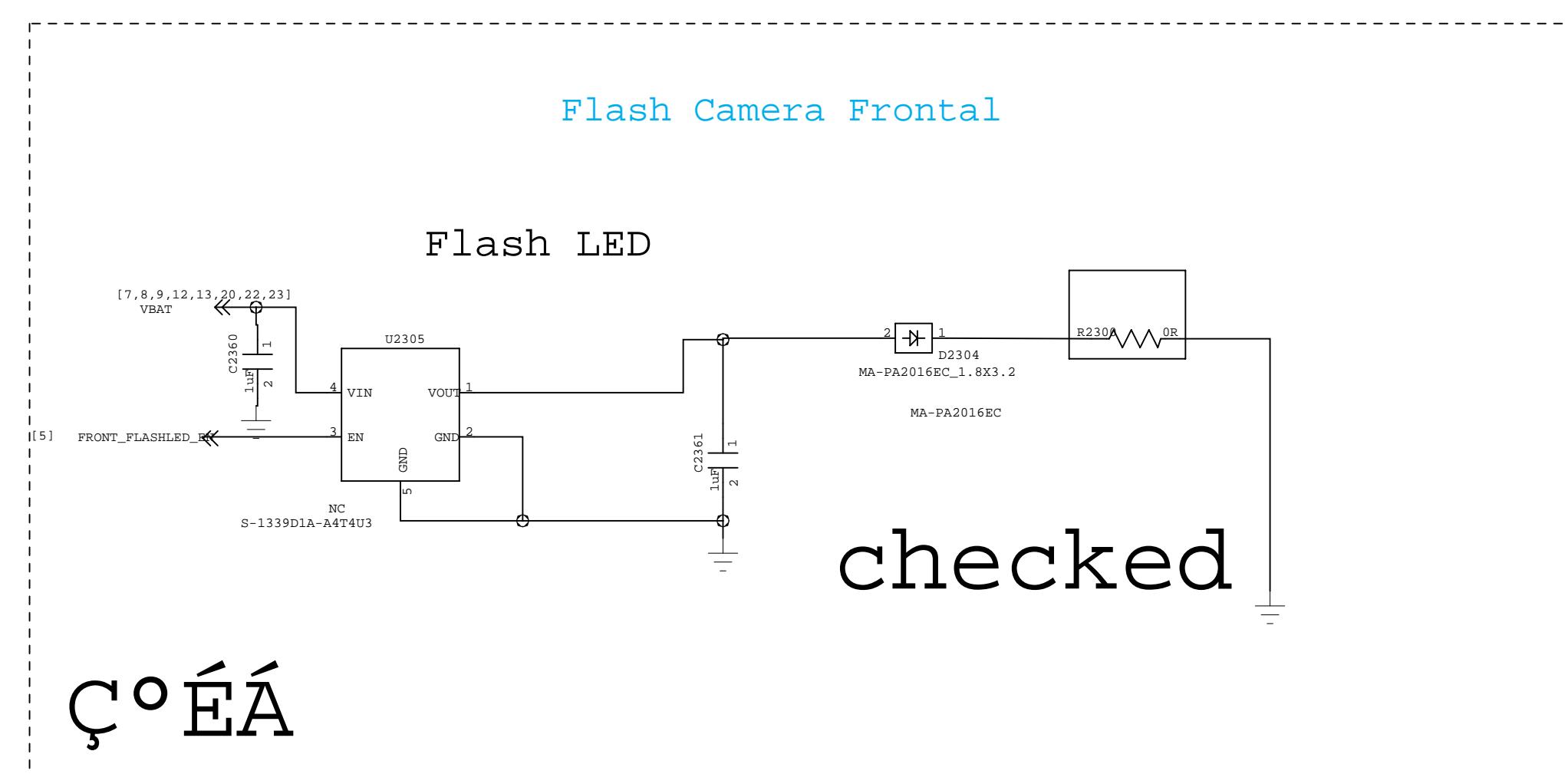
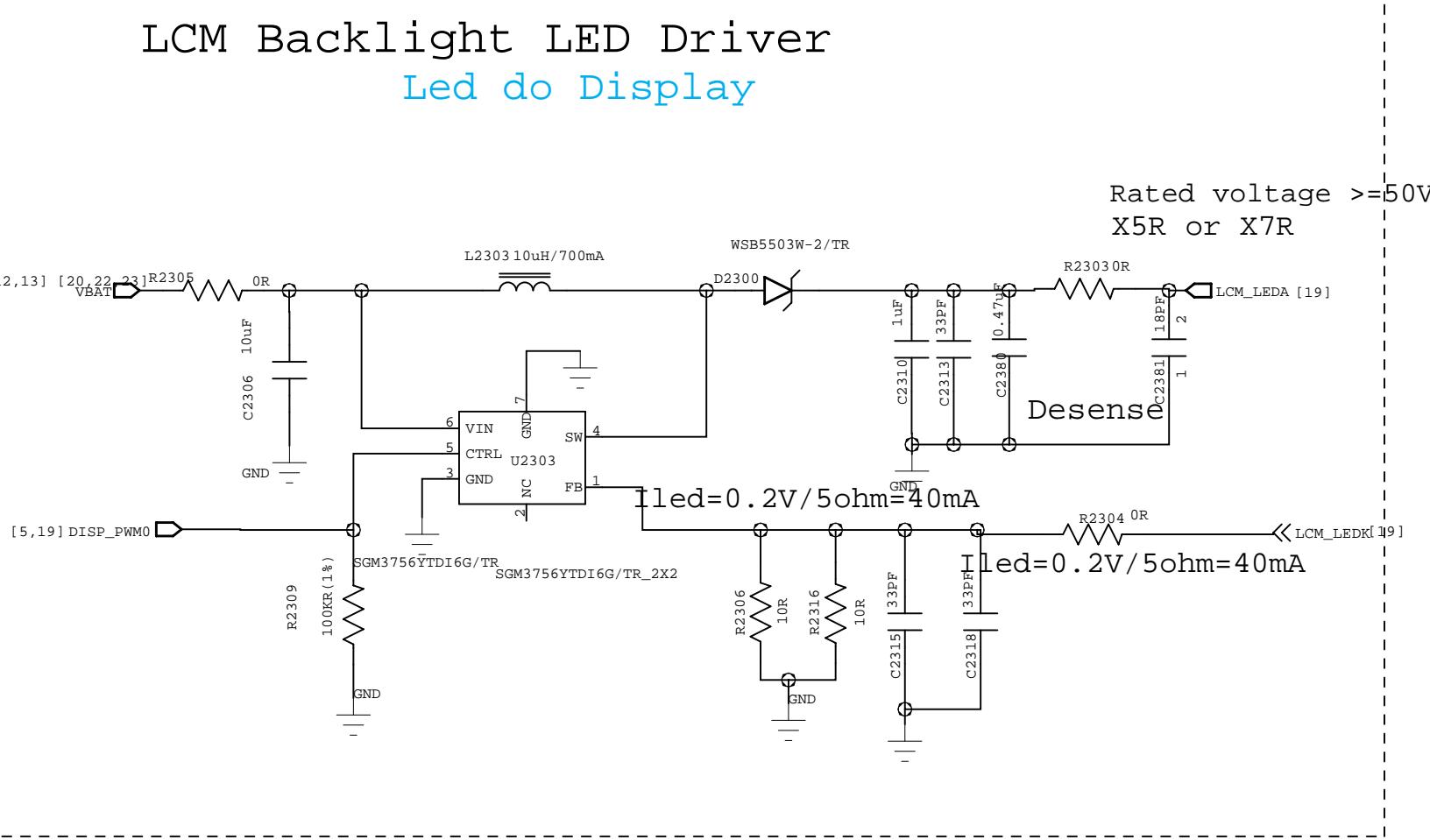
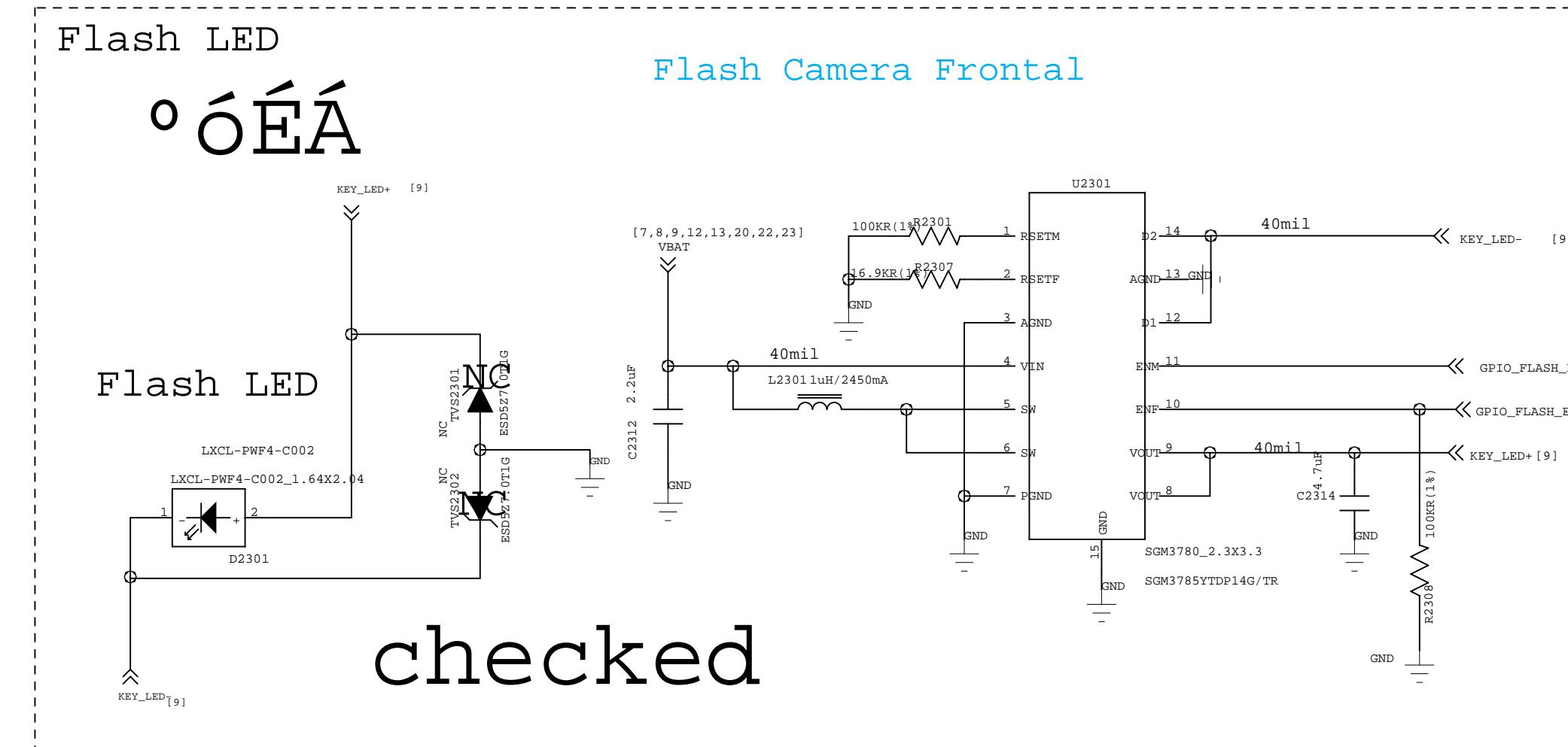
Size D Yude Confidential

Data Sep 14, 2016 | Sheet 20 of 99



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have checked

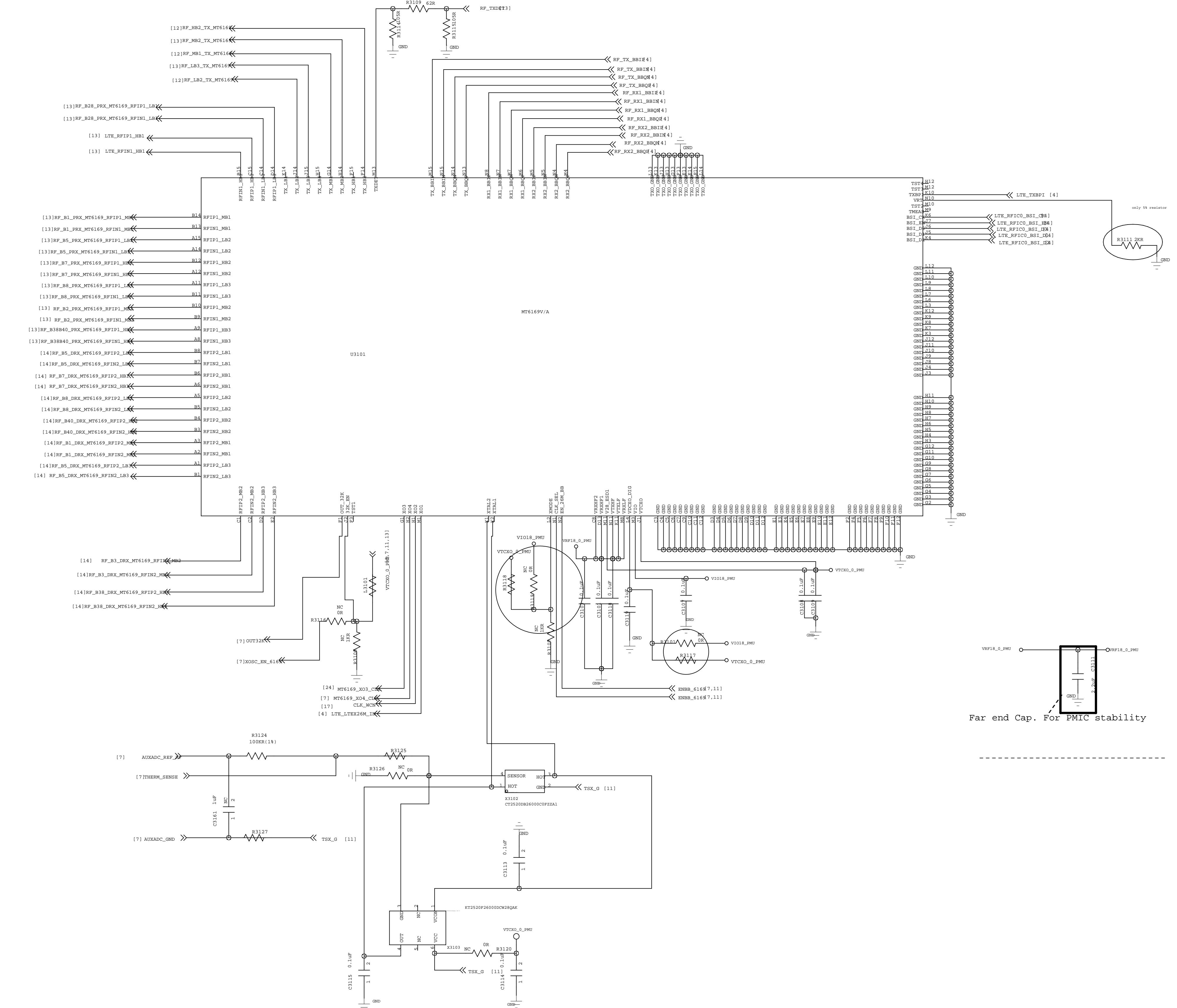
Title	23_POWER_FLASH_LCM BL
Size	D Yude Confidential
Data	Sep 14, 2016
Sheet	11 of 99

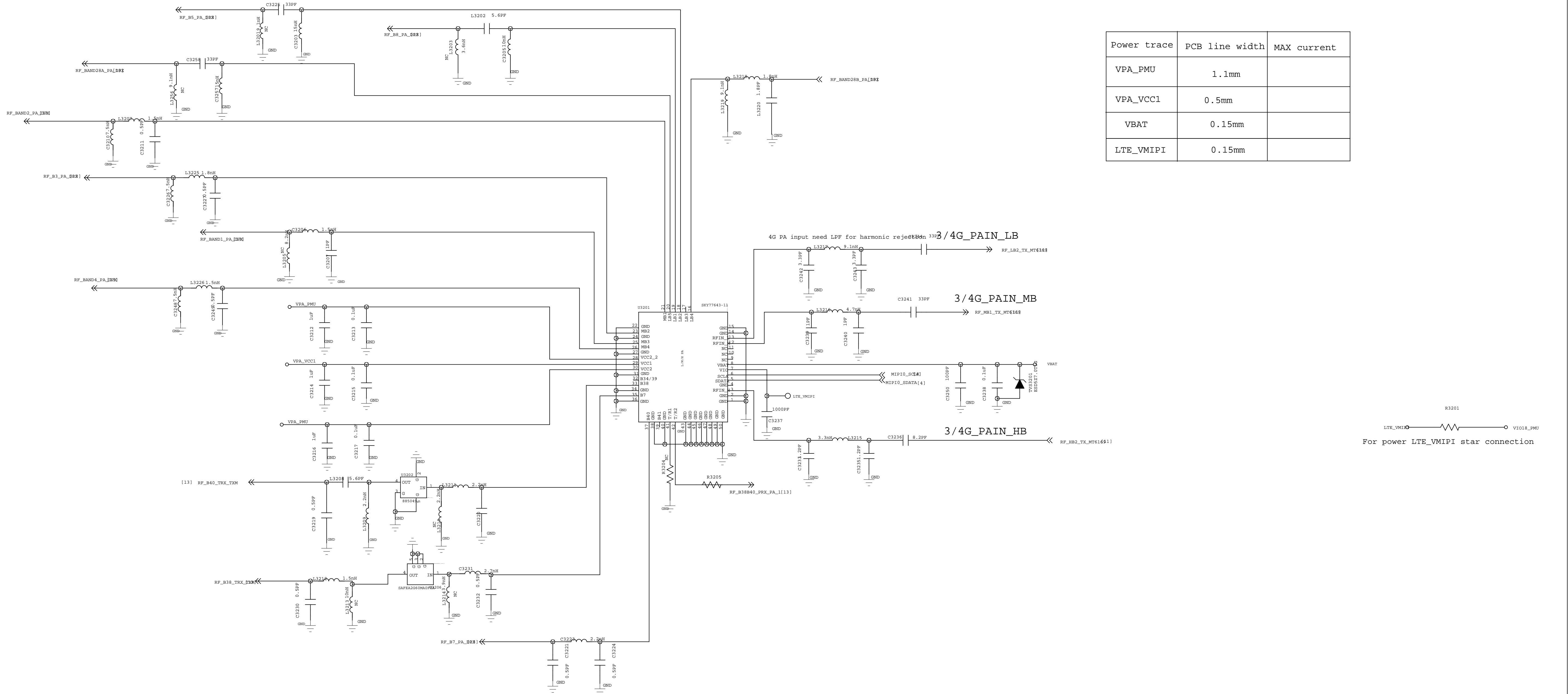
External Buck for DRAM

If using external buck for DRAM application, please refer to "MT6735\_53 DRAM External Buck Design Notice":  
1. Please add one more 1uF capacitor on PMIC VM output side (Must)  
2. Please turn off Fast Transient Function of PMIC VM LDO (Must)

Title	24_NONE
Size D	Yude Confidential
Data Sep 14, 2016	Sheet 11 of 99

Power trace	PCB line width	MAX current
VRF18_0_PMU	0 . 4mm	
VIO18_PMU	0 . 35mm	
VTCXO_0_PMU	0 . 2mm	

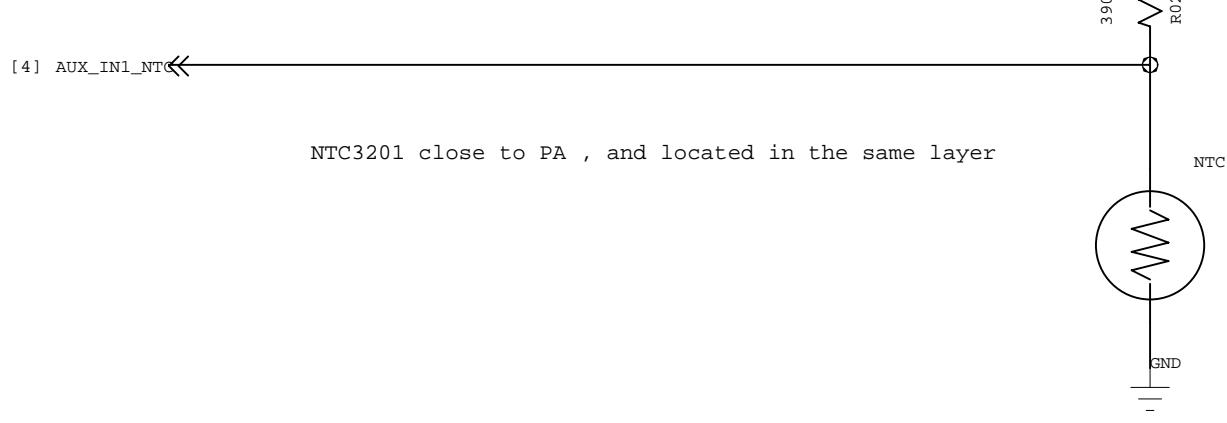




Thermistor / To sense board level temperature

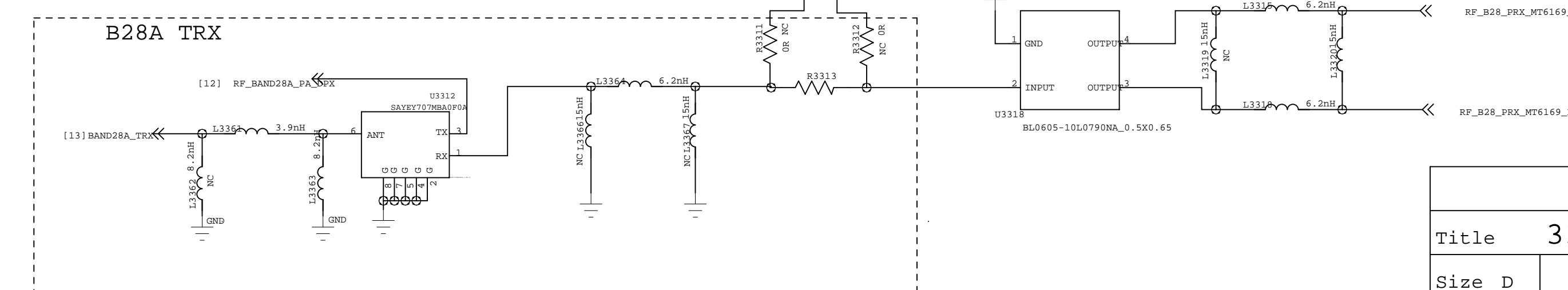
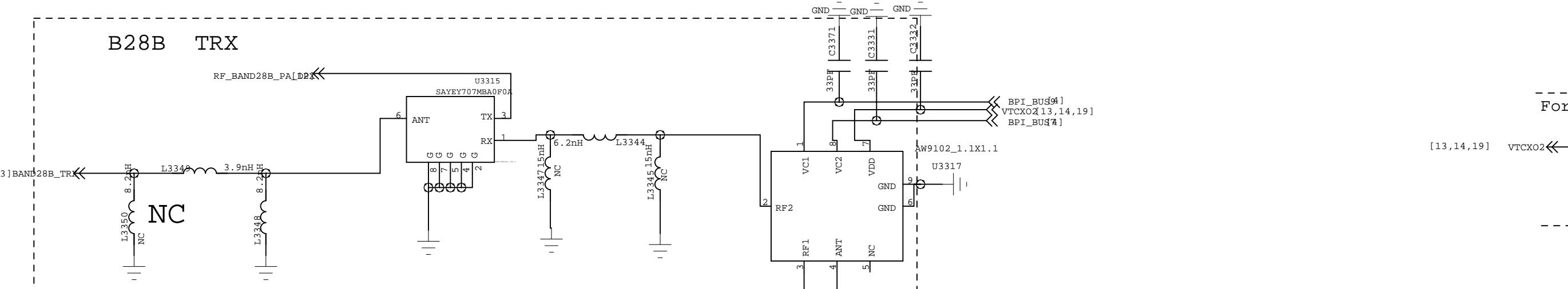
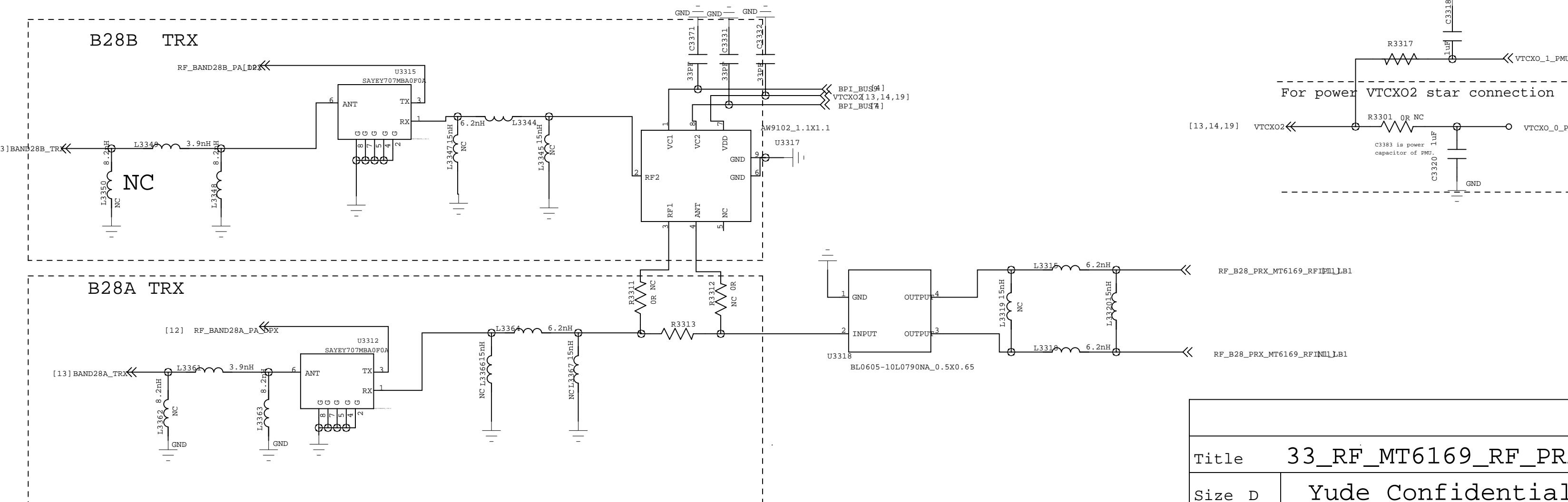
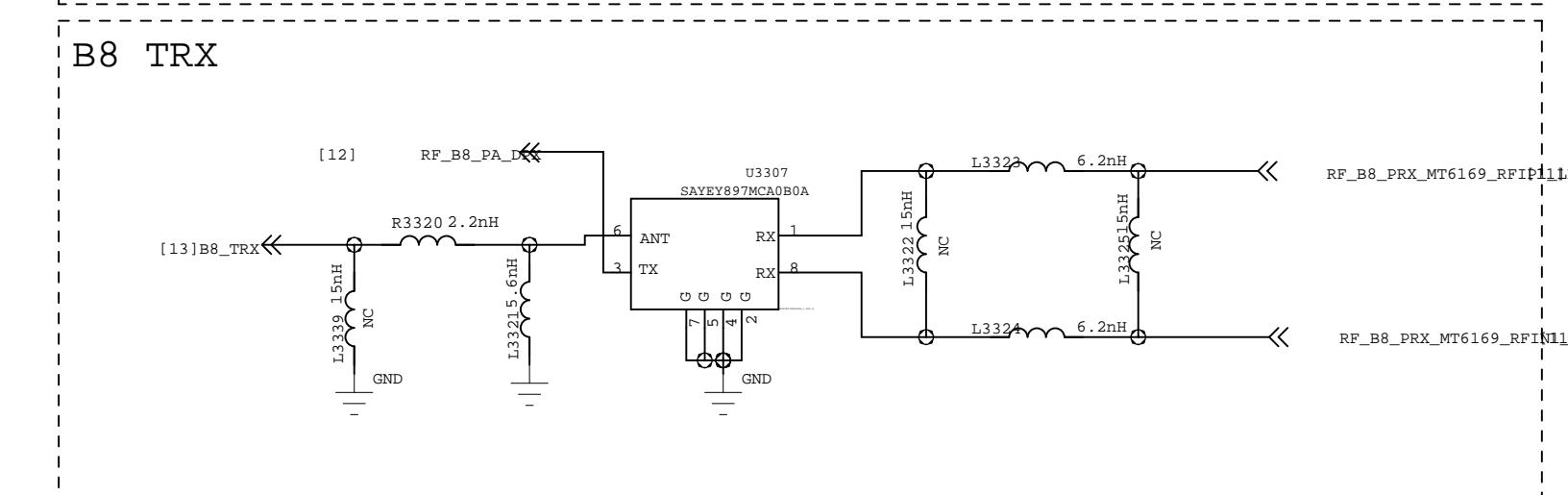
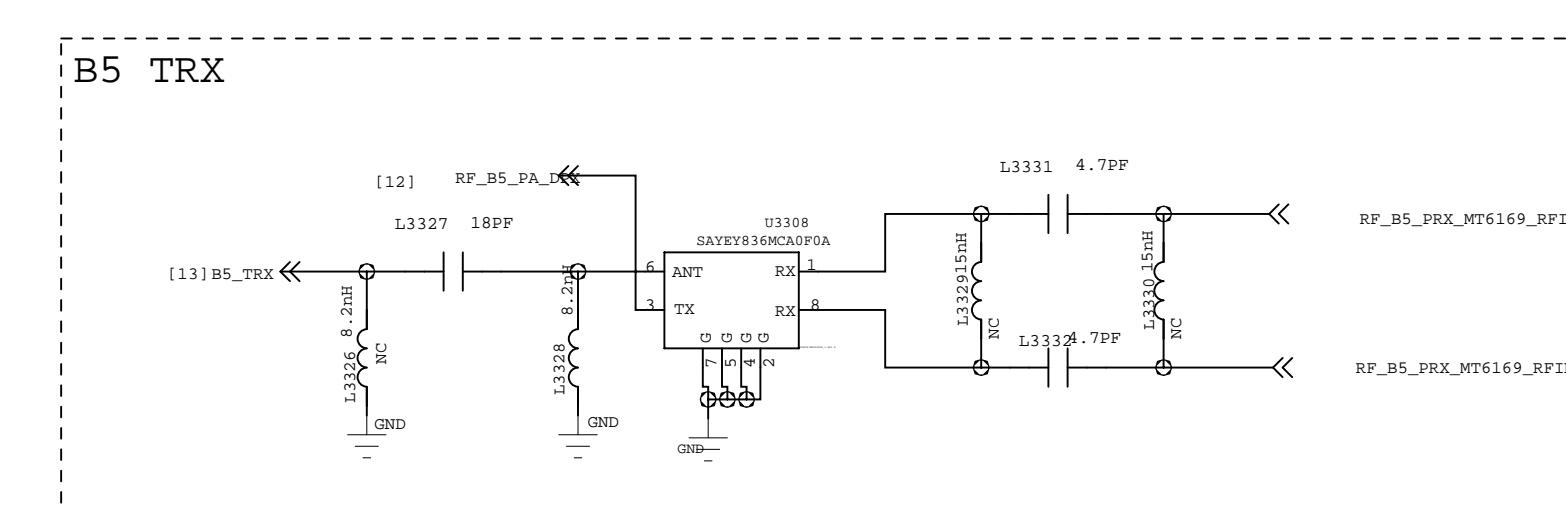
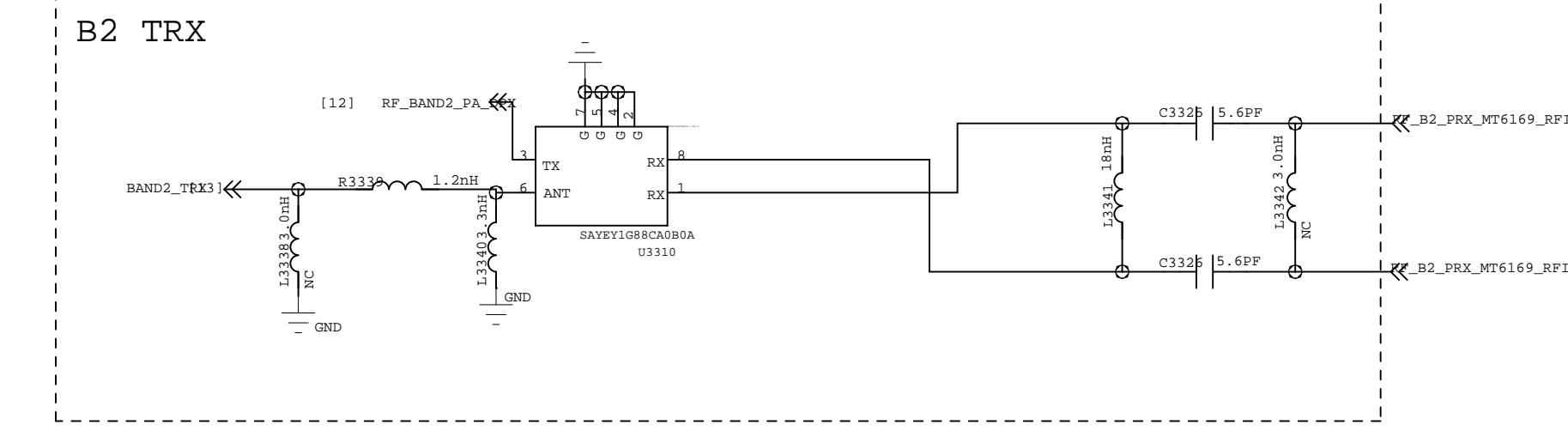
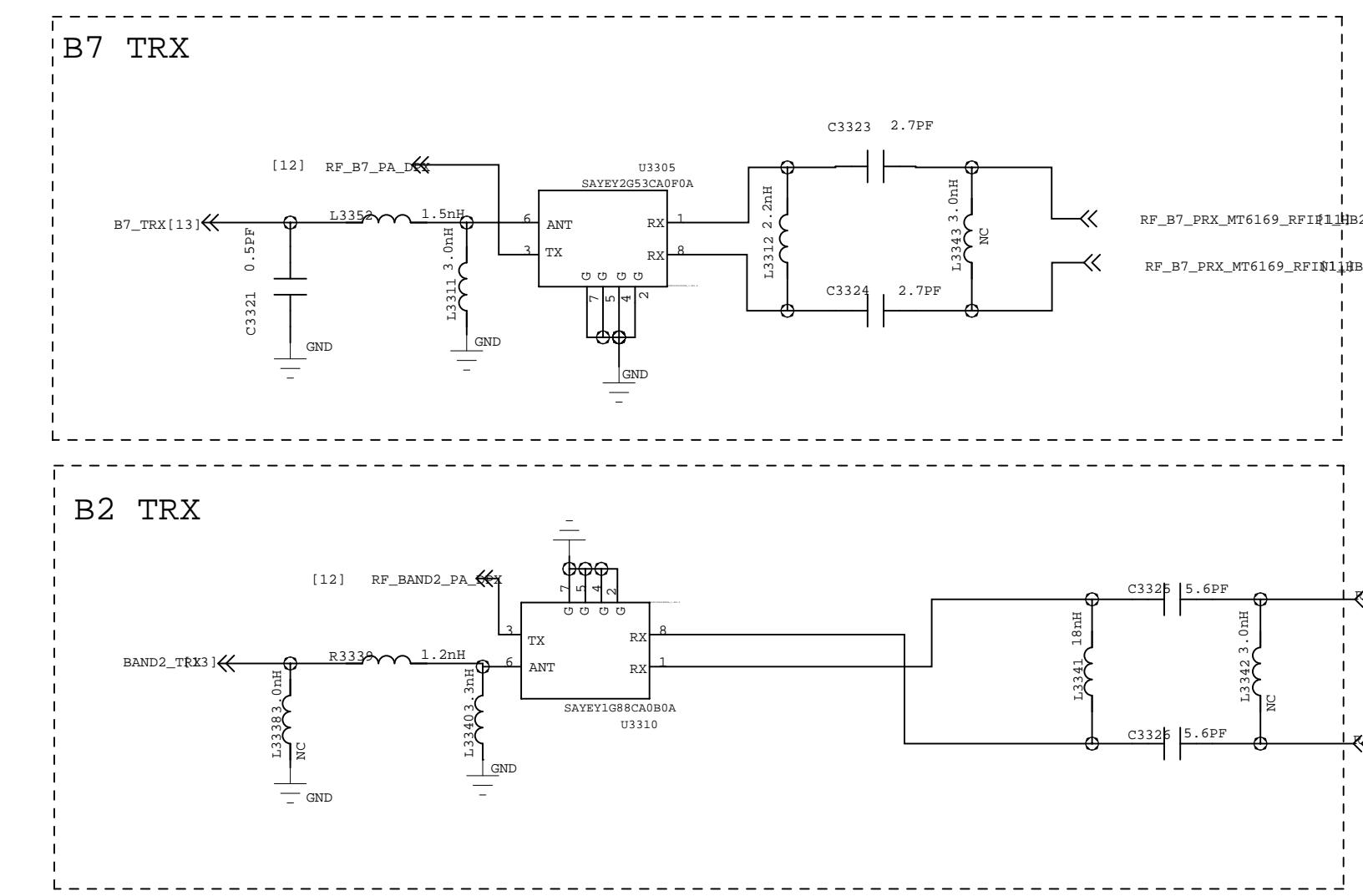
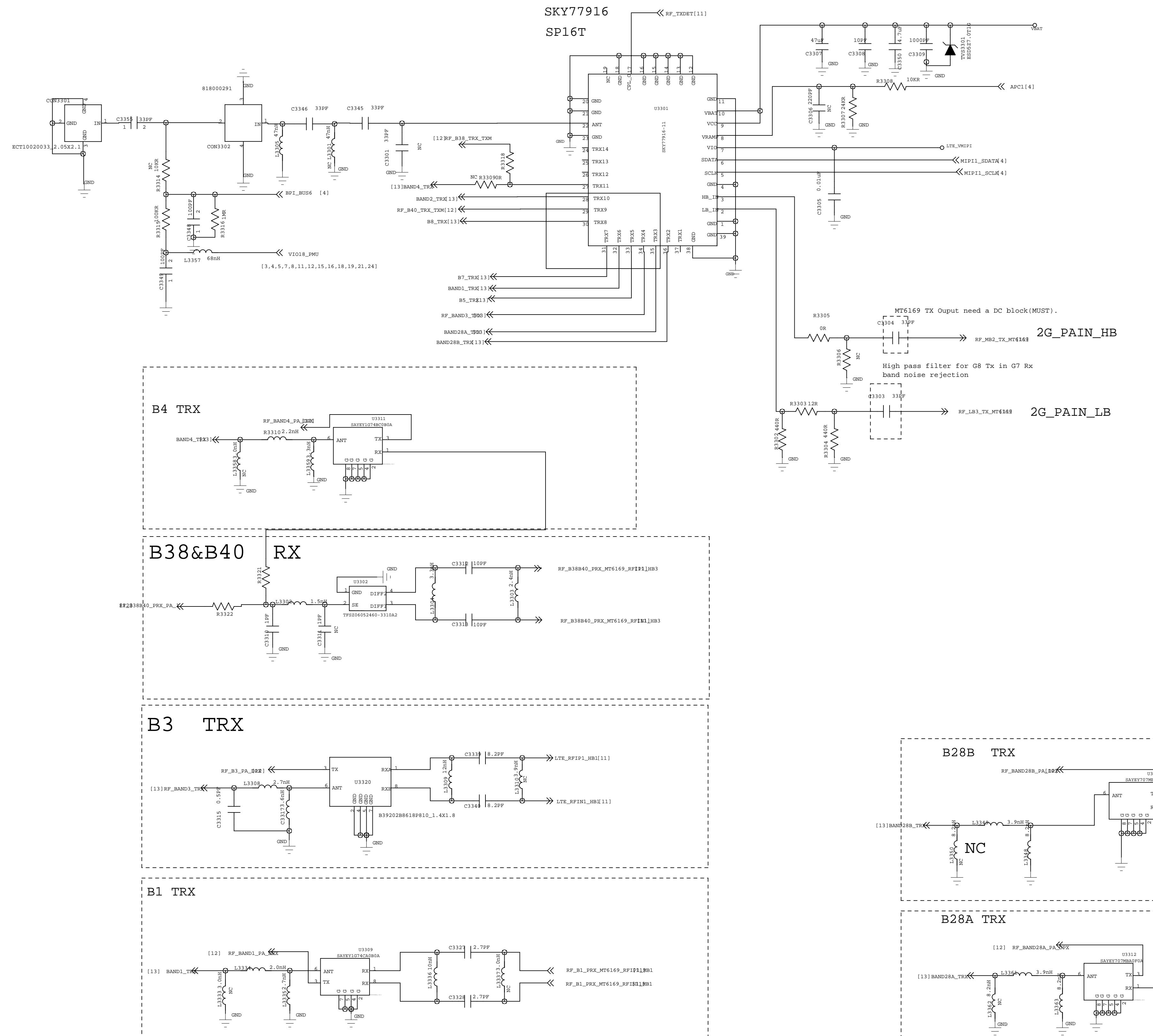


Power trace	PCB line width	MAX current
VPA_PMU	1.1mm	
VPA_VCC1	0.5mm	
VBAT	0.15mm	
LTE_VMIPI	0.15mm	



Title	32_RF_MT6169_RF_TX	
Size D	Yude Confidential	
Data	April 5, 2015	Sheet 32 of 99

Power trace	PCB line width	MAX current
VBAT	2.5mm (Min 2.0mm)	
LTE_VMIPI	0.15mm	

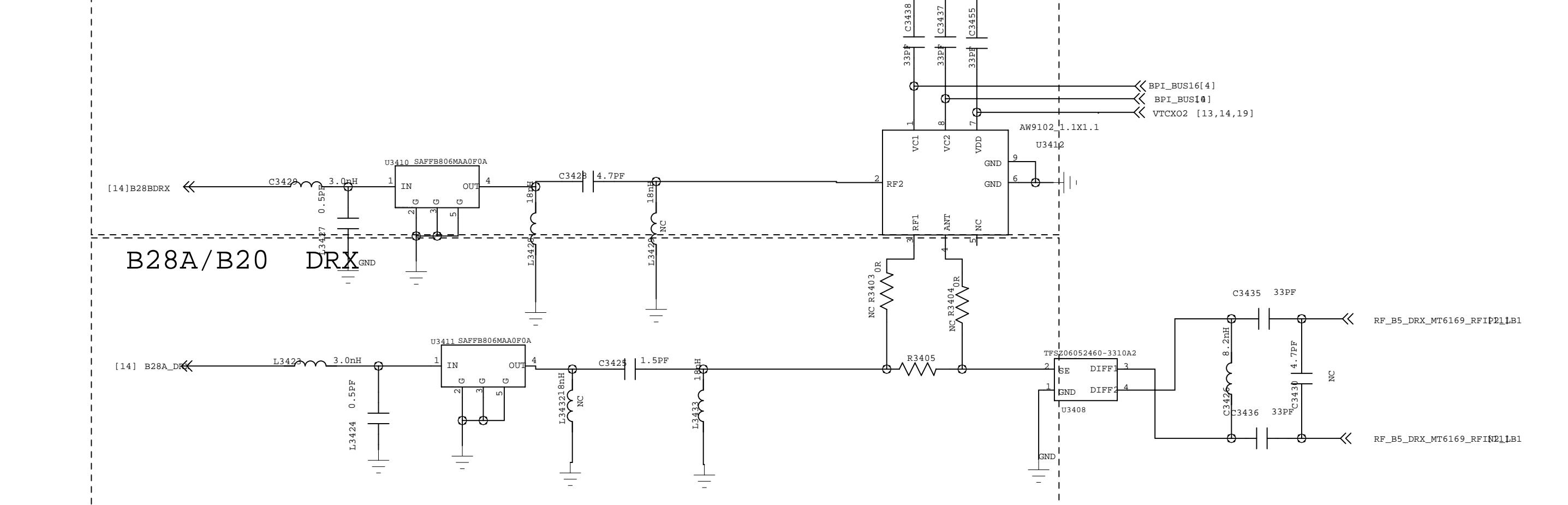
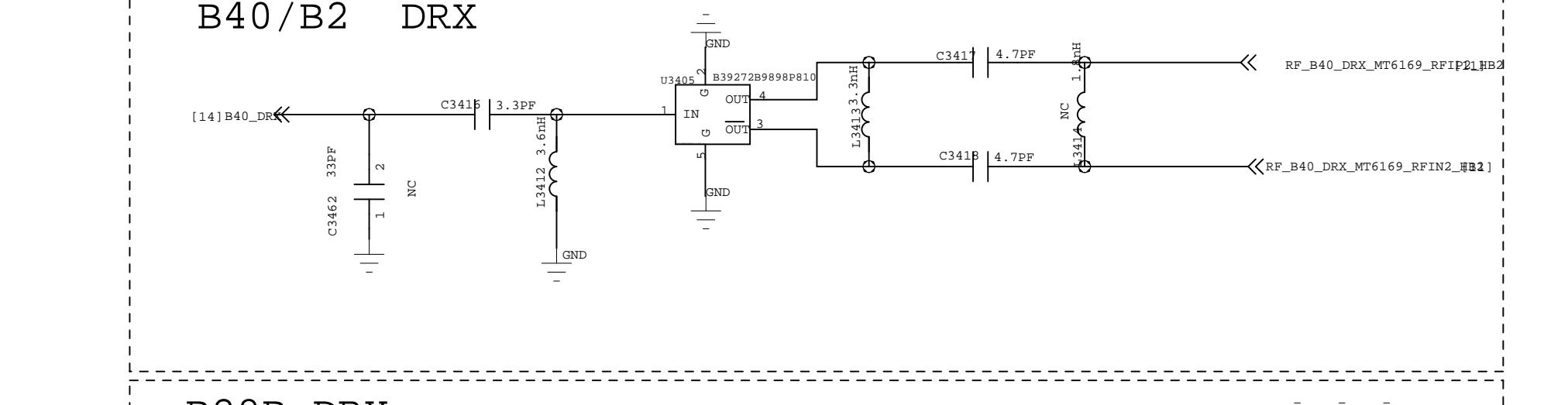
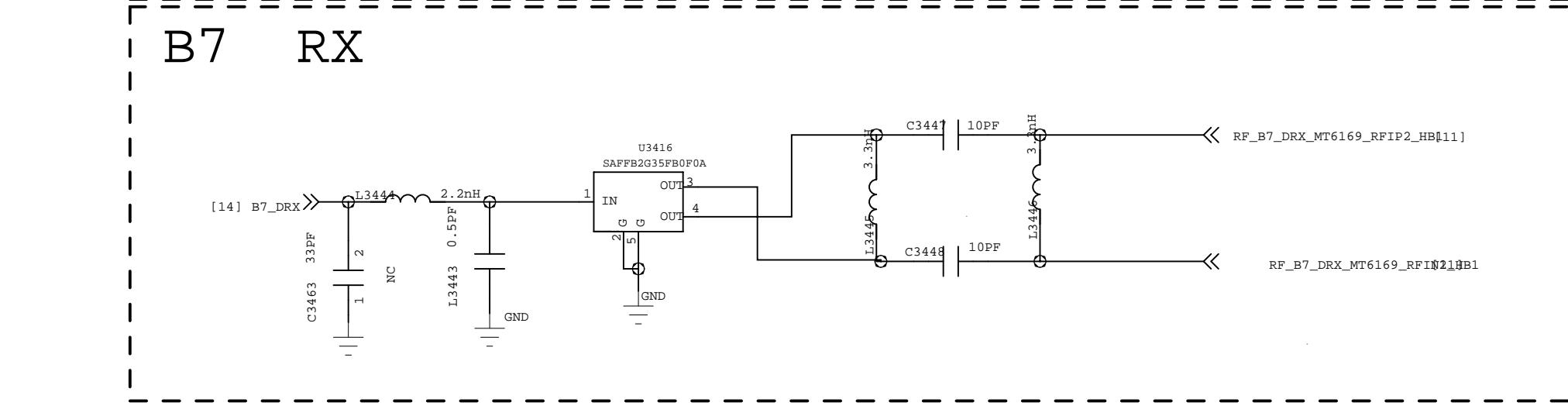
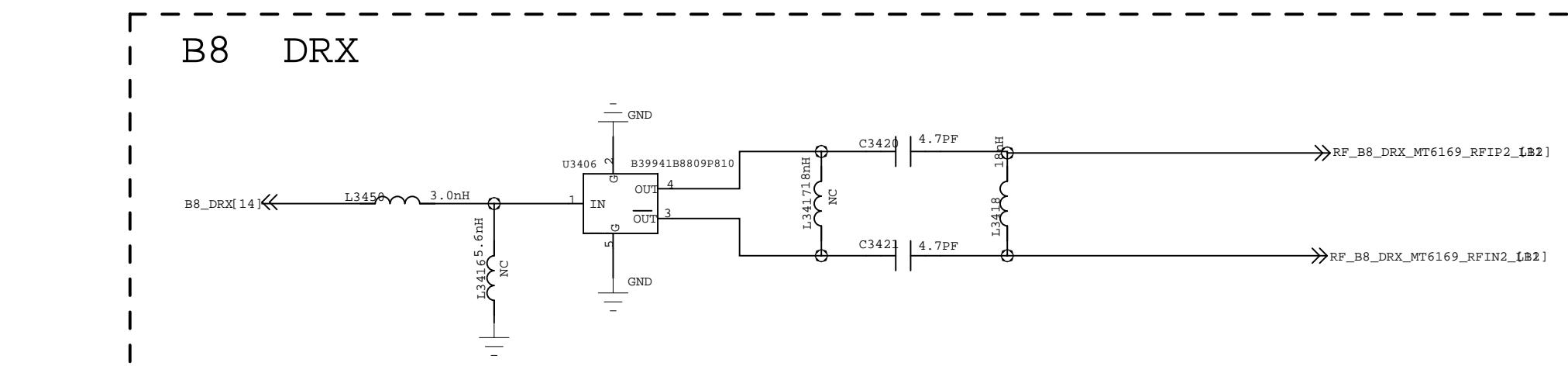
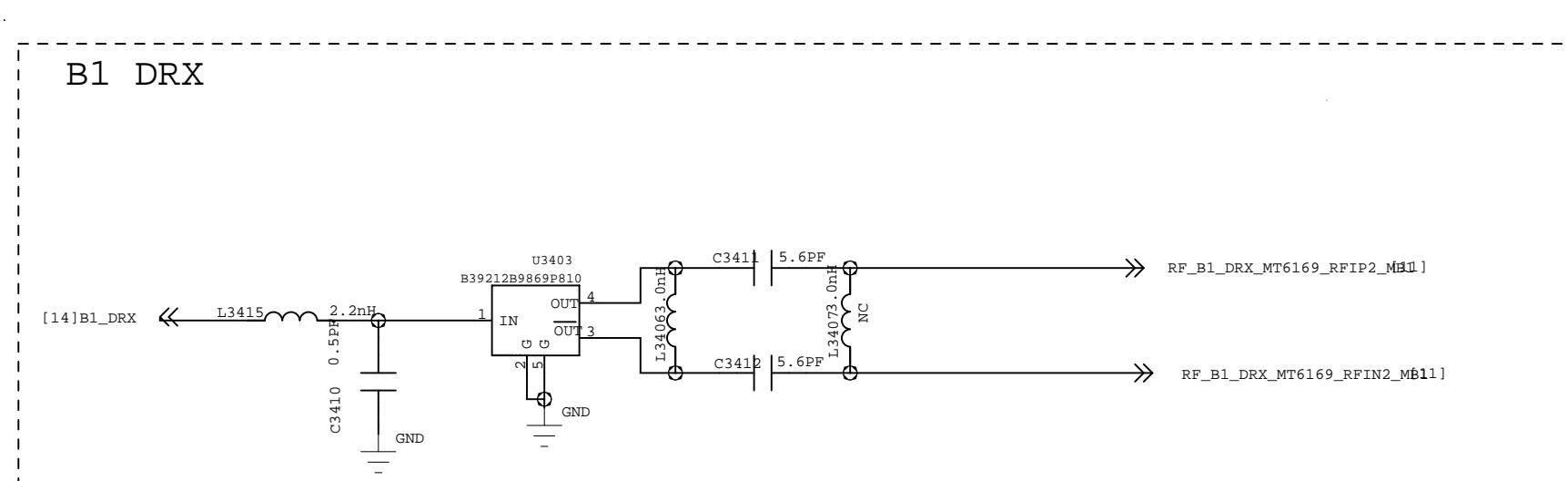
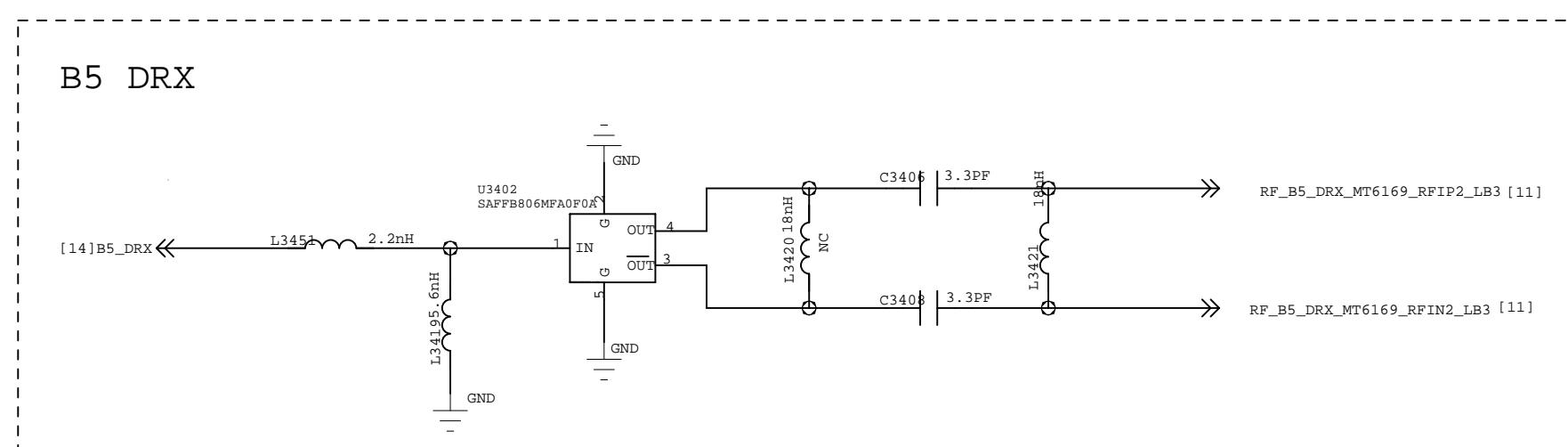
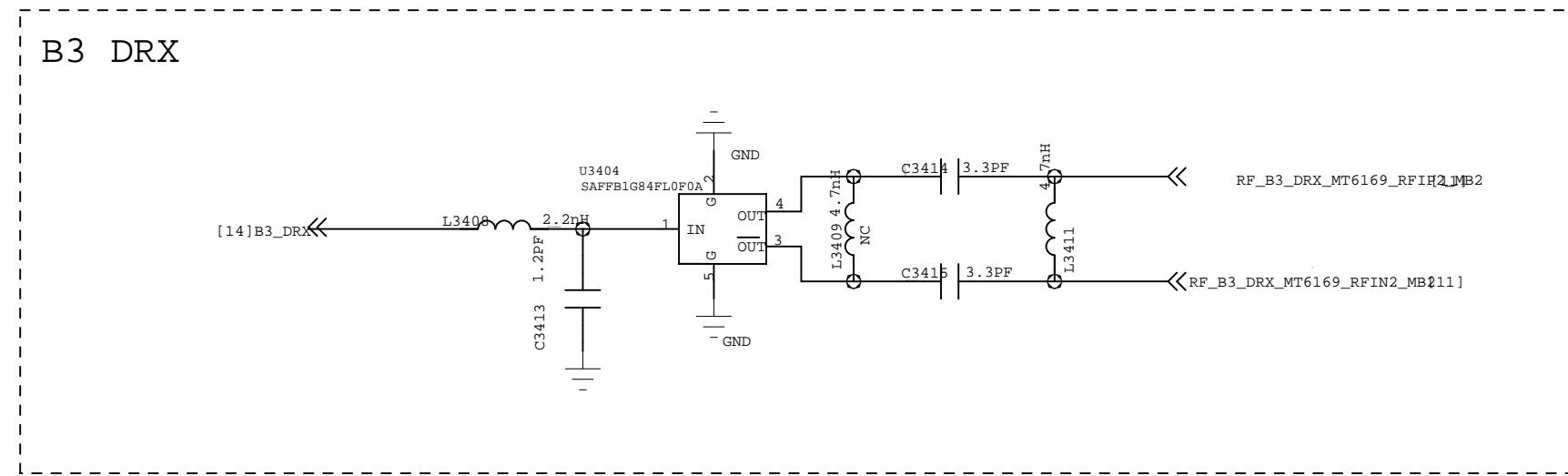
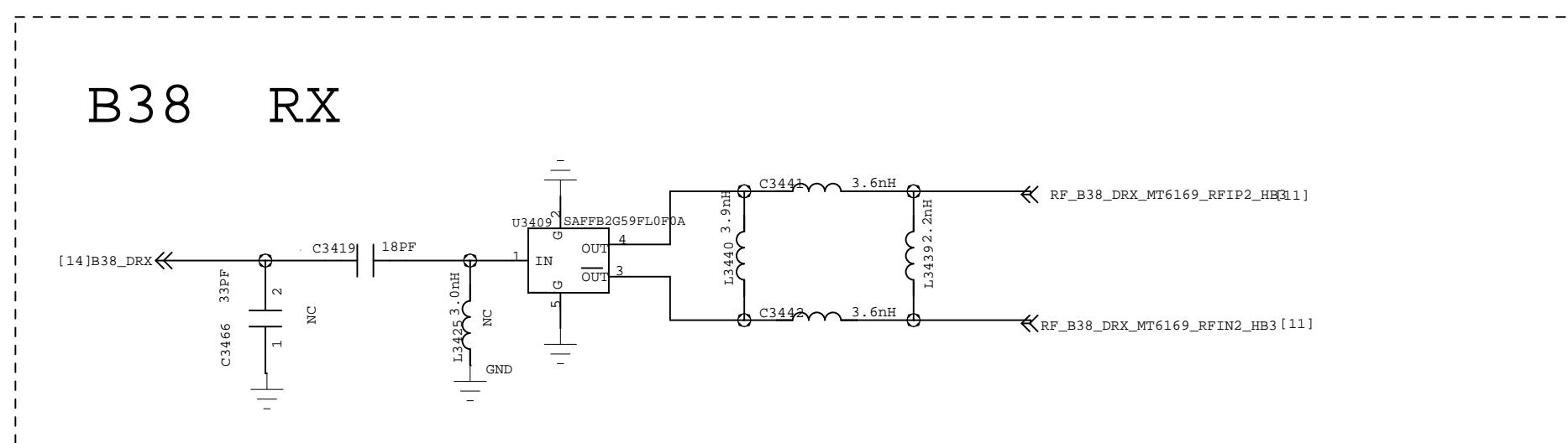
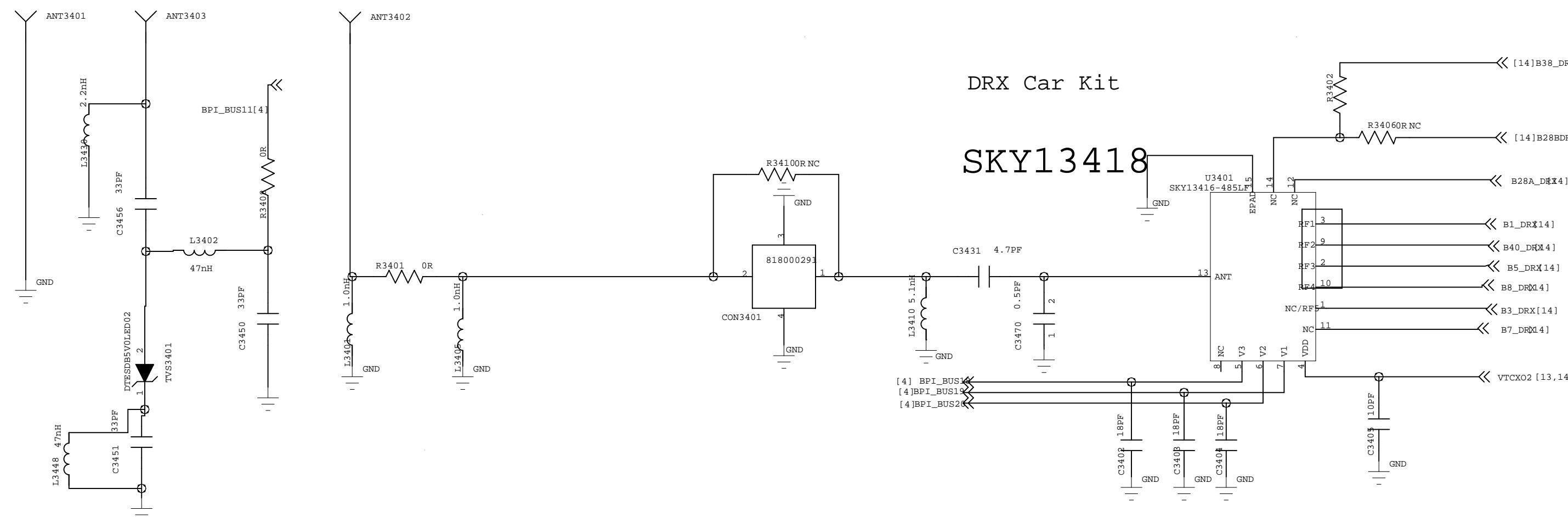


Title 33\_RF\_MT6169\_RF\_PRX

Size D Yude Confidential

Data April 5, 2015 Sheet 33 of 99

Power trace	PCB line width	MAX current
VTCXO2	0.15mm	50uA



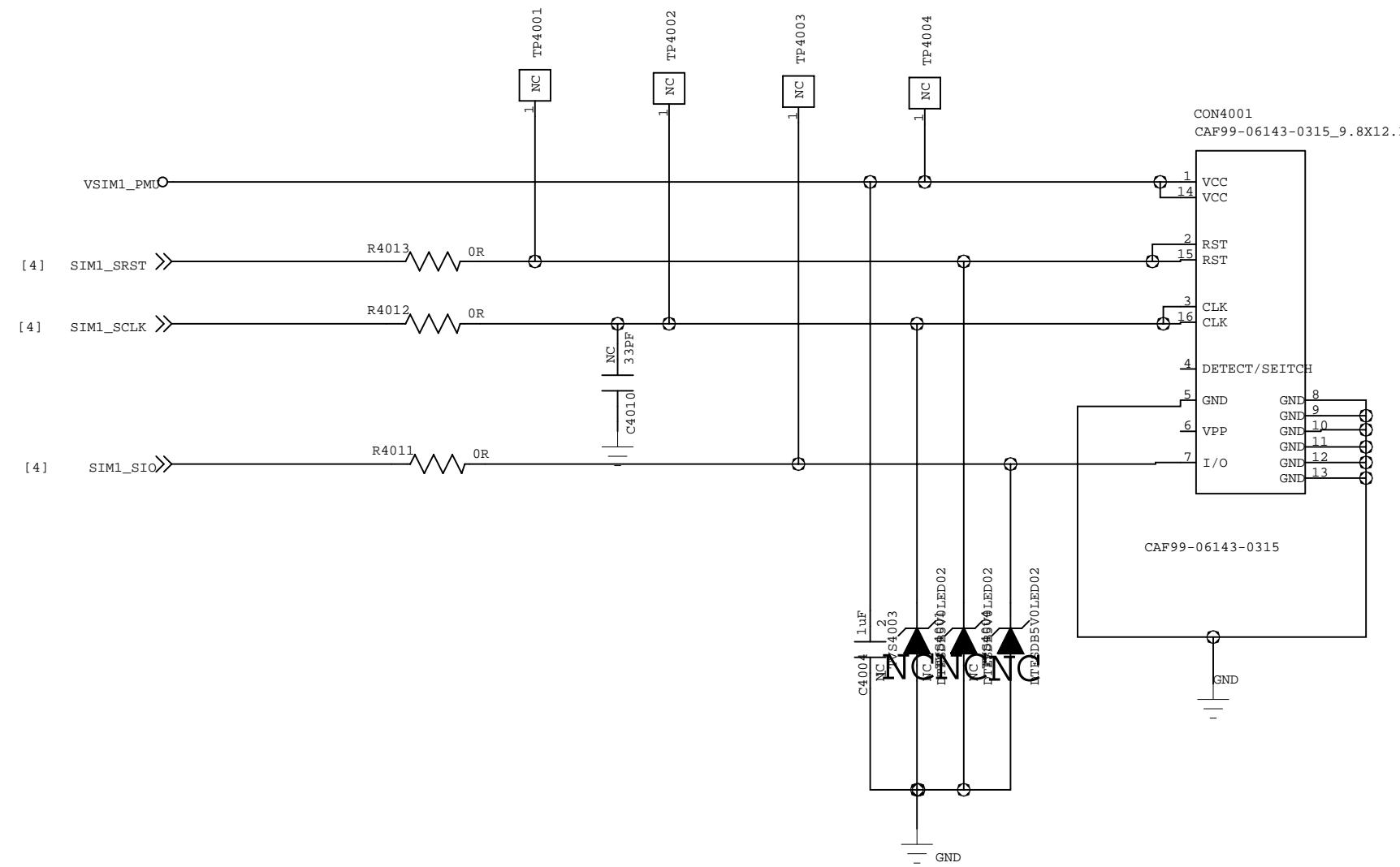
Title 34\_RF\_MT6169\_RF\_DRX

Size D Yude Confidential

Data Nov 6, 2015 | Sheet 34 of 99

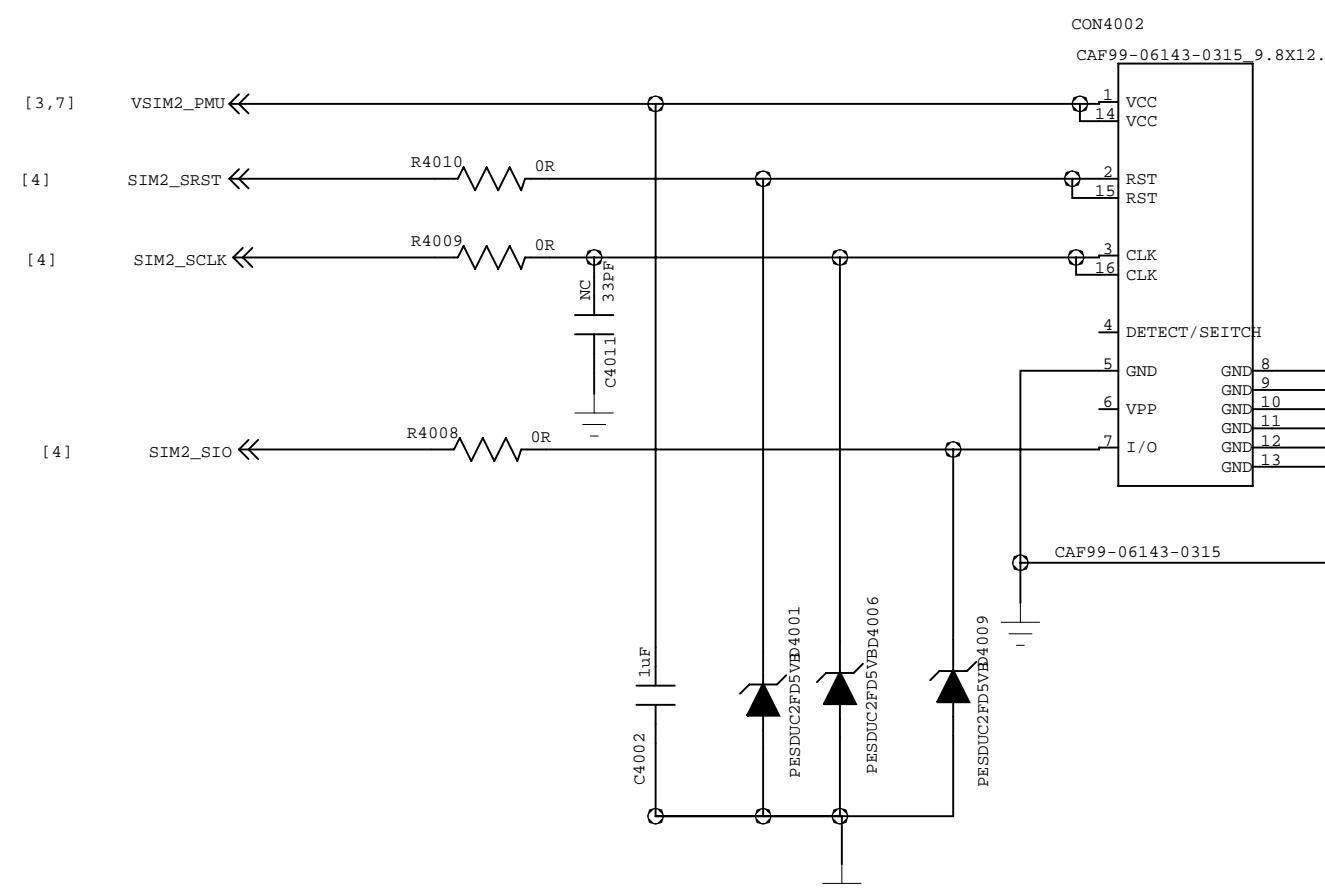
SIM1\_sclk & SIM2\_sclk sheilding by GND

**SIM1**



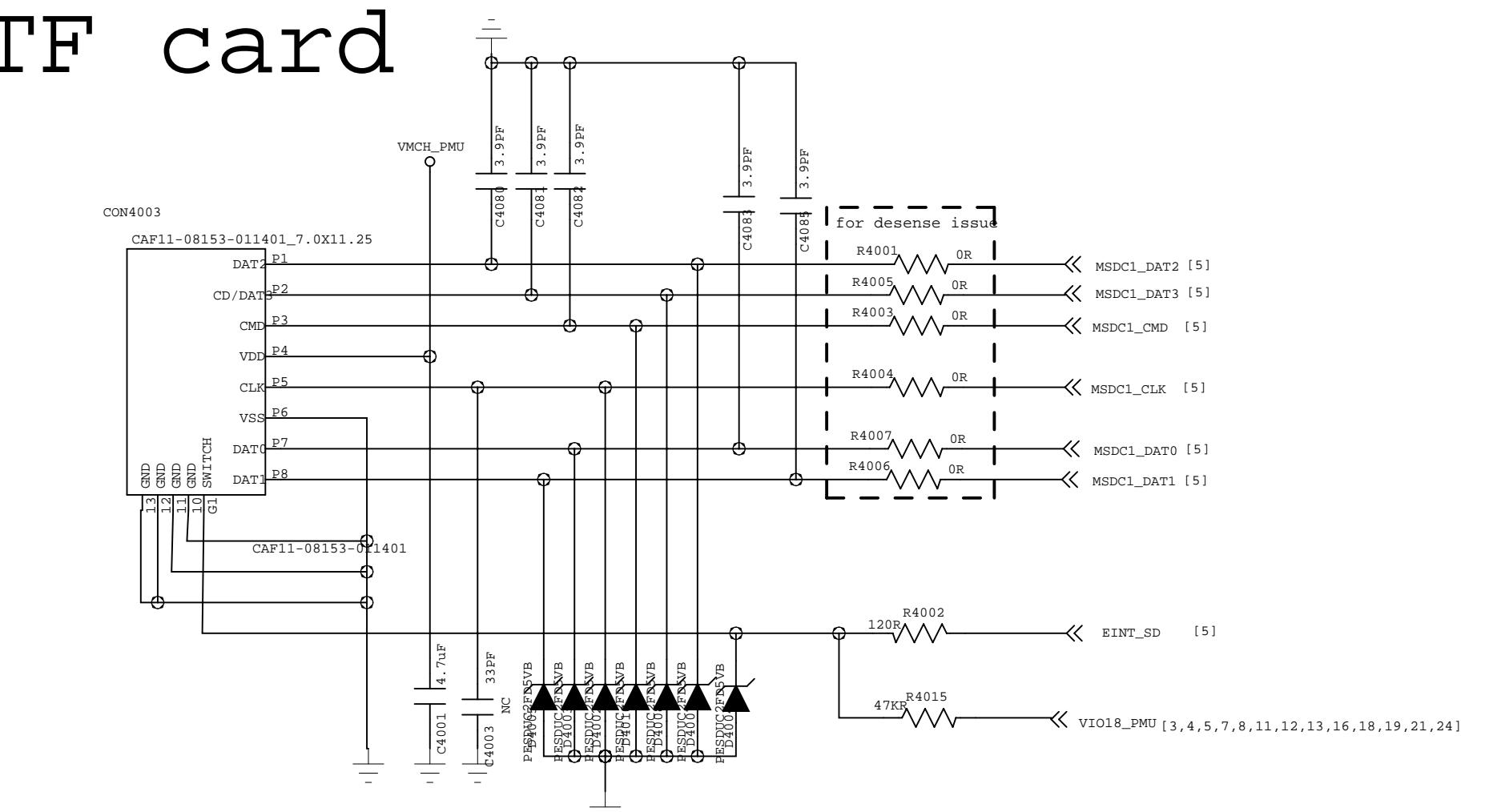
checked

**SIM2**

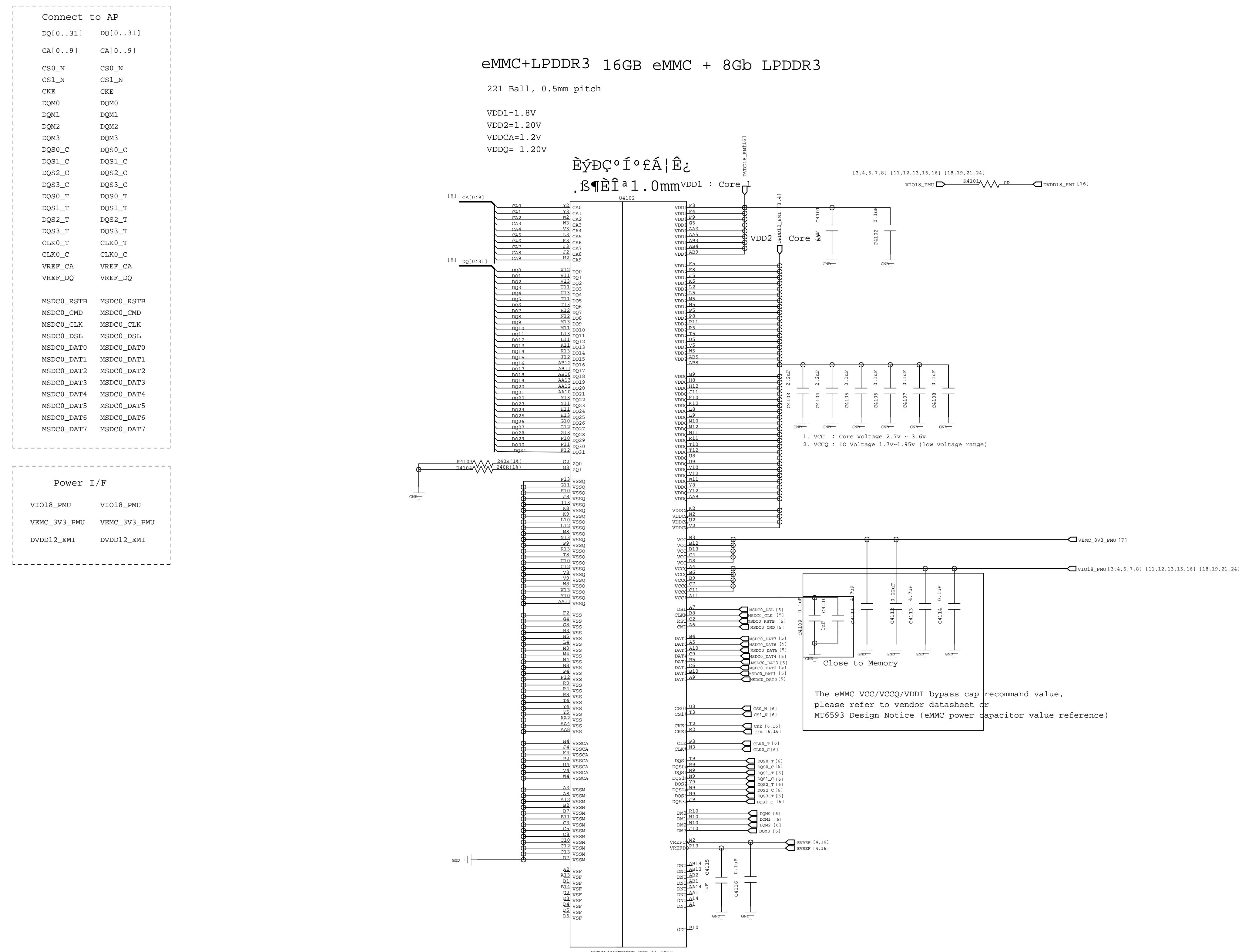


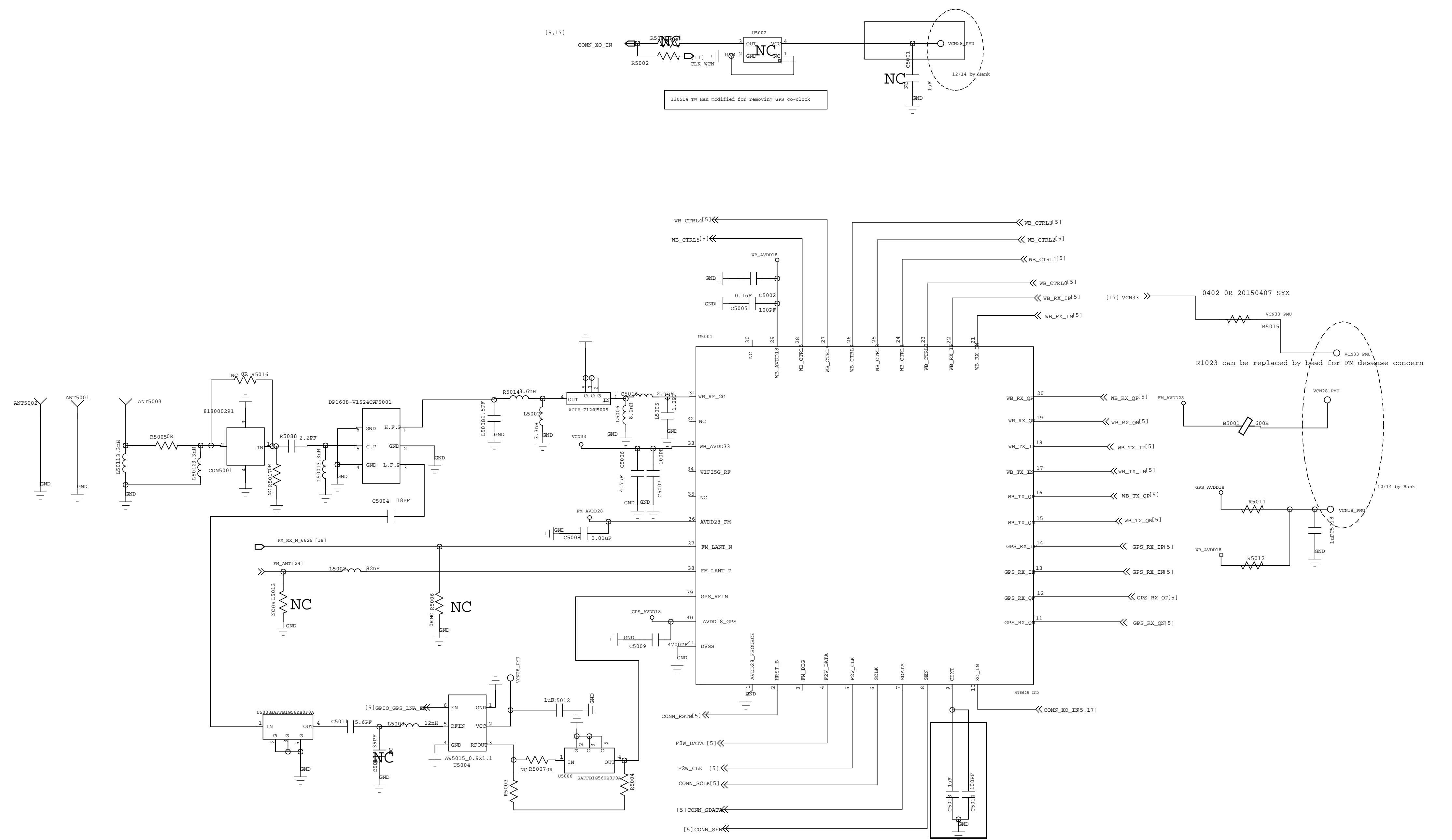
checked

**TF card**



checked





## Speaker NC

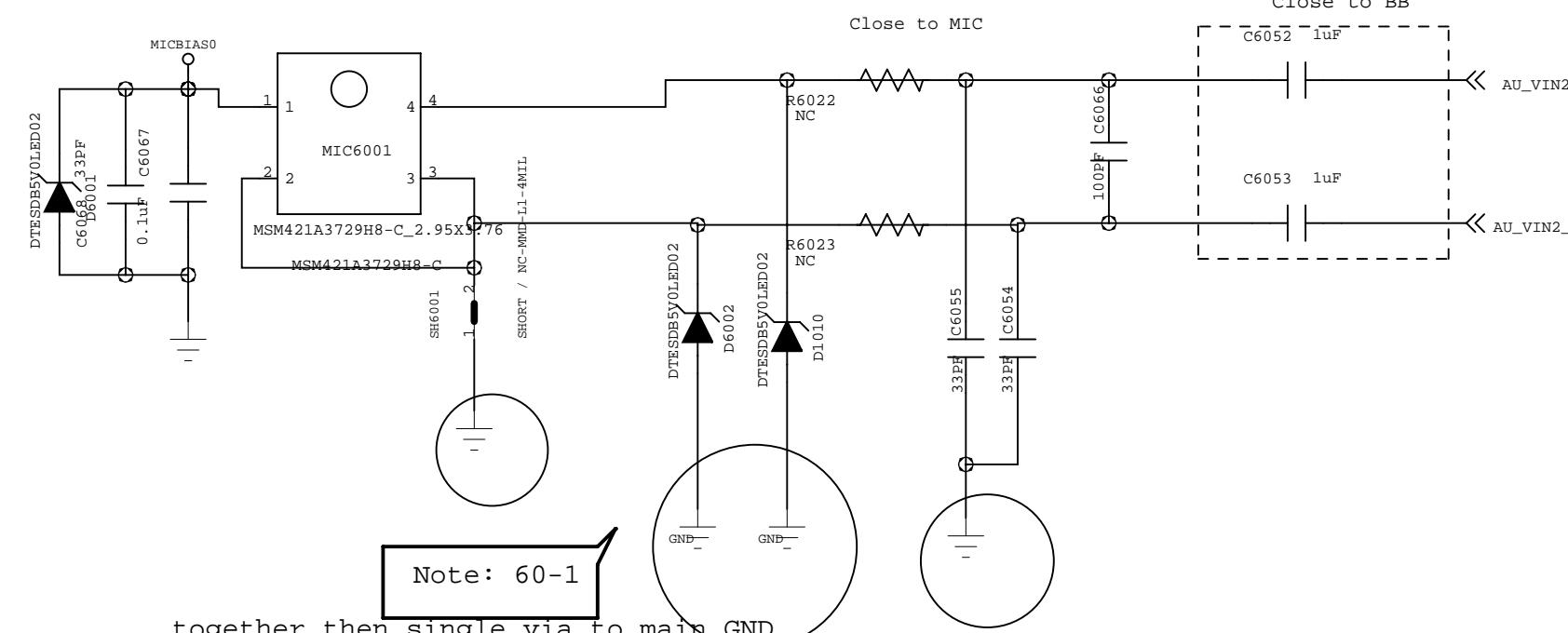
Based on your system level design , if better desense performance is needed on your system.

Based on your system level design , if better ESD performance is needed on your system.

## Handset Microphone 1

Based on your system level design, if better audio performance is needed on your system, please reserve for ACC mode

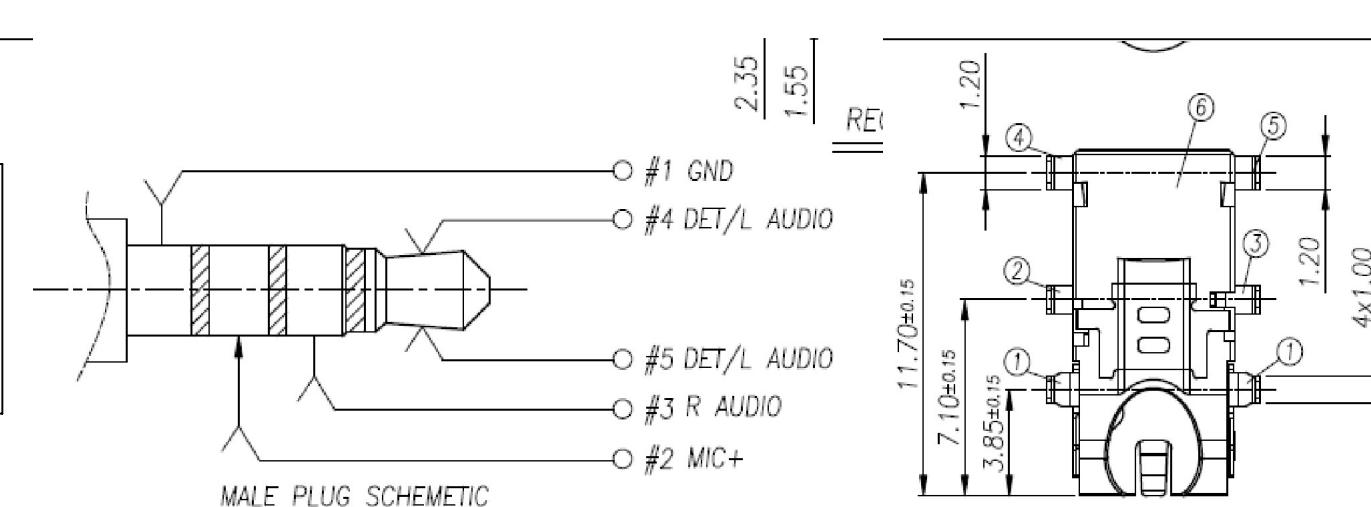
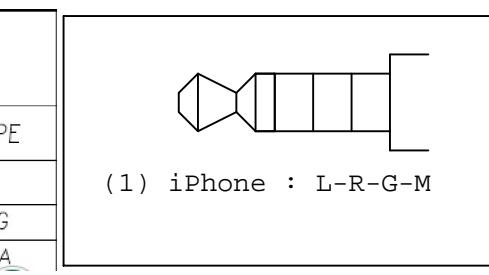
## Second MIC NC



checked

## Earphone Audiô

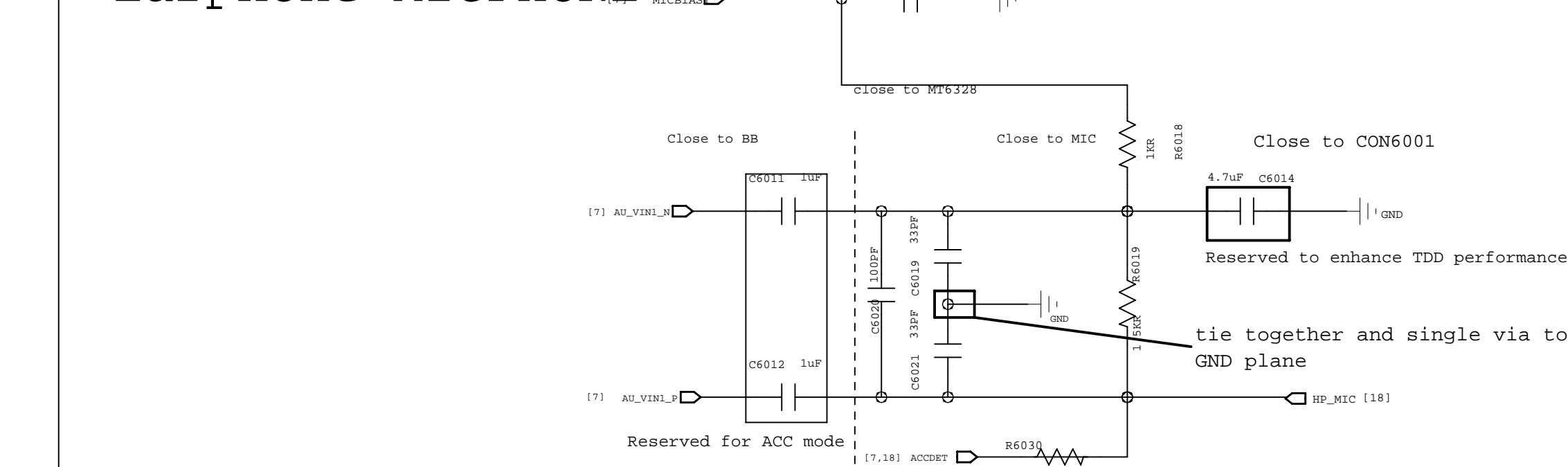
DIMENSION IN mm		LCN Shenzhen Linkconn Electronics Co.,Ltd.	
TOLERANCE UNLESS OTHERWISE SPECIFIED			
X±0.35	X±5'	APR. DATE: 03.5 AUDIO JACK (DIP) INSERT TYPE	
XX±0.25	X±3'	OK DWG NO: JAF00-05152-0151	
XXX±0.15	XX±1'	PROJ. # CUSTOMER DRAWING	
DRAWING NUMBER: 2015.07.31		SCALE A4 SHEET 1/2 REV A	



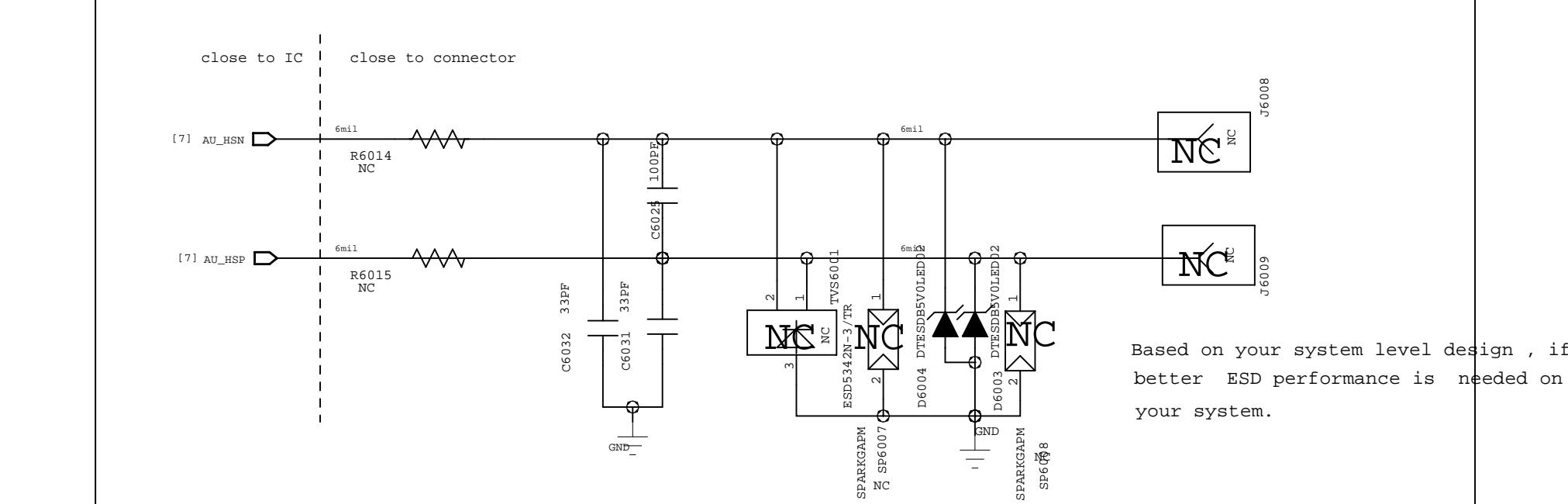
Based on your system level design , if better Audio performance is needed on your system, please add 32ohm to audio path close to IC for performance enhance proposal ( 32ohm condition pop noise can improve 6dB )

BEAD6002 / BEAD6004 are for FM-desense tuning proposal

## Earphone MICPHONE



## Receiver



ÆÁÁ¬½ÓÆ÷



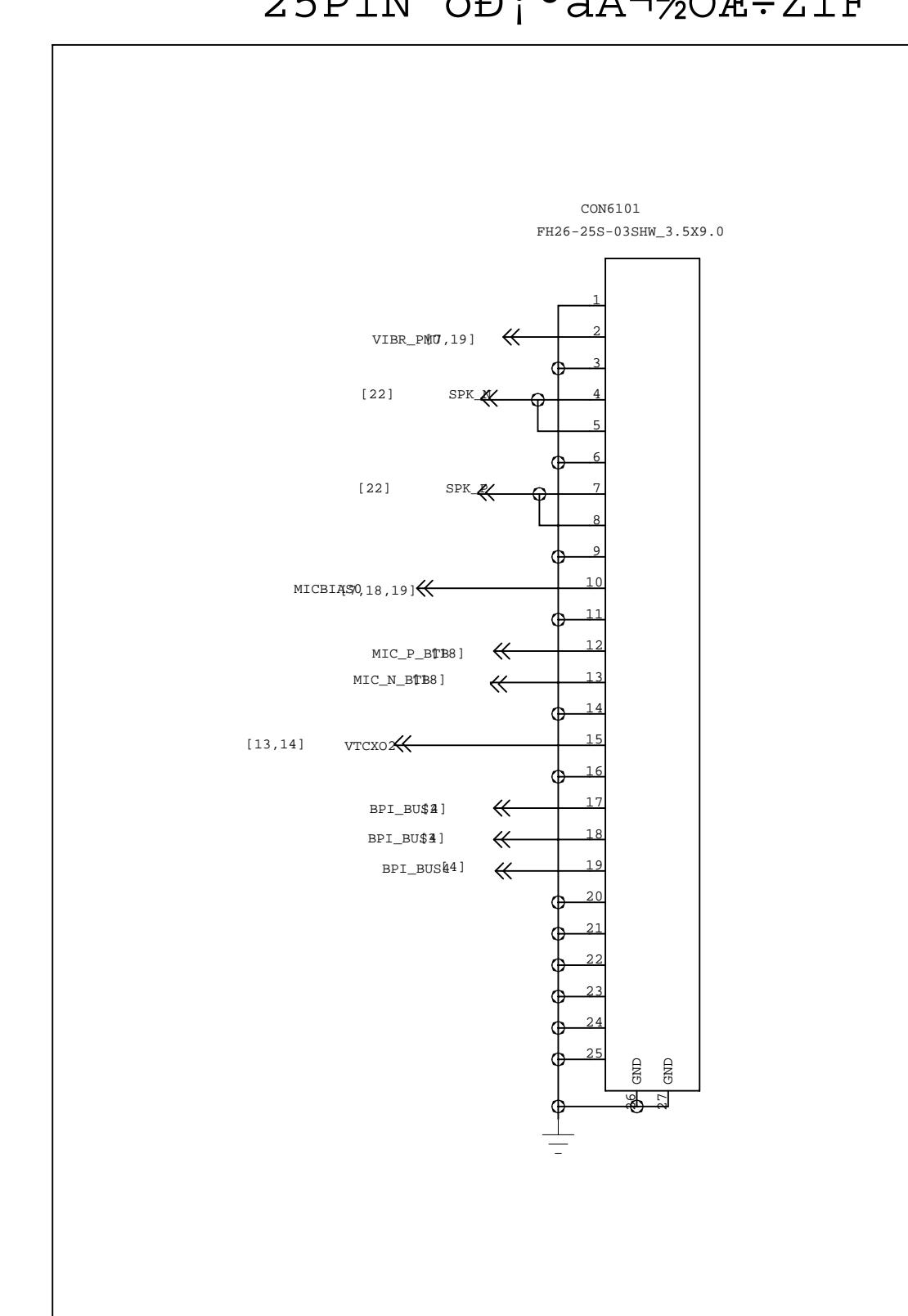
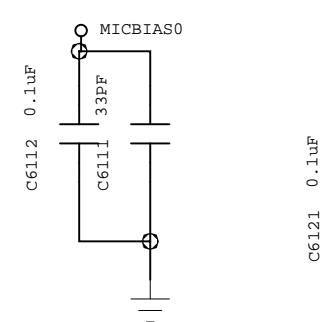
530124 or 530127 ???

define pin accord customer CTP

The schematic diagram illustrates the connection of several pins to specific components:

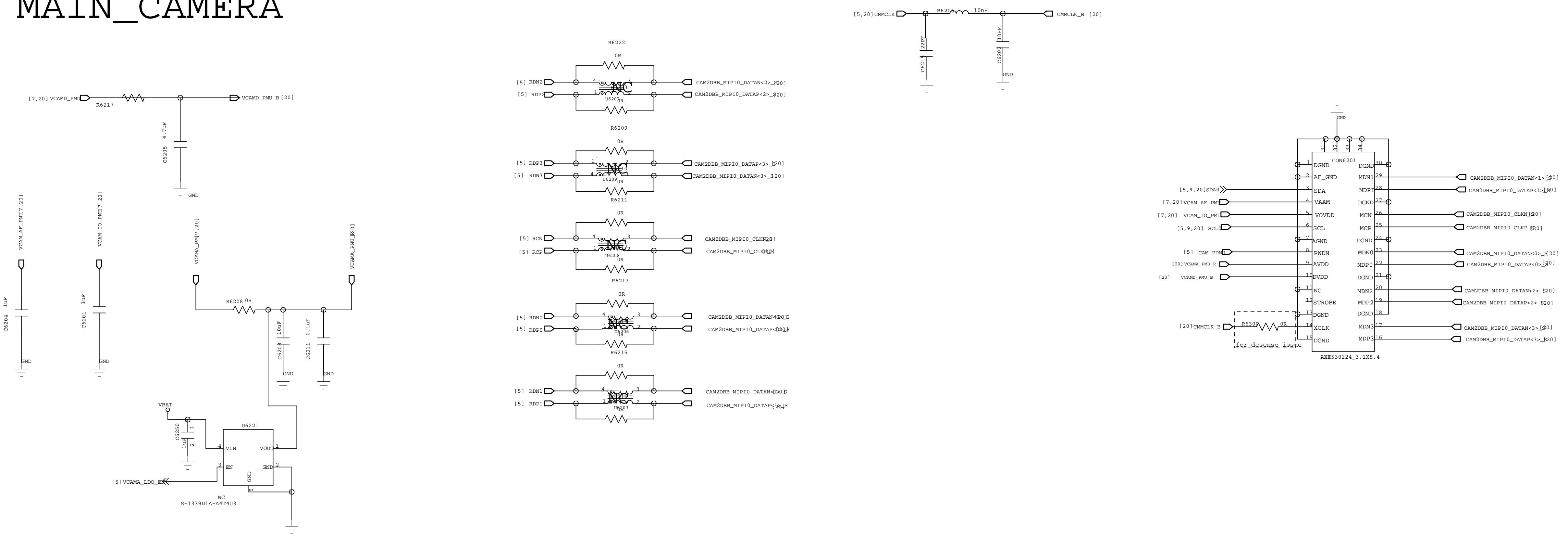
- TP6101**: A terminal block with four pins. Pin 1 is connected to ground. Pins 2, 3, and 4 are labeled **NC** (No Connection).
- TP6102**: A terminal block with four pins. Pin 1 is connected to ground. Pins 2, 3, and 4 are labeled **NC**.
- TP6104**: A terminal block with four pins. Pin 1 is connected to ground. Pins 2, 3, and 4 are labeled **NC**.
- TP6103**: A terminal block with four pins. Pin 1 is connected to ground. Pins 2, 3, and 4 are labeled **NC**.
- VGPB1\_PMU**: A terminal block with one pin. This pin is connected to the **TP6105** terminal block.
- TP6105**: A terminal block with four pins. Pin 1 is connected to ground. Pin 2 is connected to the **VGPB1\_PMU** terminal. Pin 3 is connected to the **CON6102** connector. Pin 4 is labeled **NC**.
- CON6102**: A connector labeled **FP243AH-006G10M\_3.3X5.0**. It has eight pins:
  - Pin 1: GND
  - Pin 2: SCL (1.8V)
  - Pin 3: SDA (1.8V)
  - Pin 4: VDD (2.8V)
  - Pin 5: INT
  - Pin 6: RES<sub>H</sub>T
  - Pin 7: GND
  - Pin 8: GND
- TVS6101** and **TVS6102**: Two TVS diode packages. Each package has three pins. Pin 1 is connected to ground. Pin 2 is connected to the **TP6101** terminal block. Pin 3 is connected to the **TP6102** terminal block.
- D6111**: A diode component connected between the **TP6105** terminal block and ground.
- DTS6DB5V0LED02**: An LED component connected between the **TP6105** terminal block and ground. It is connected in series with a **C6120** (2.2uF) capacitor.
- RES<sub>H</sub>T**: A resistor component connected between the **CON6102** connector pin 6 and ground.

checked

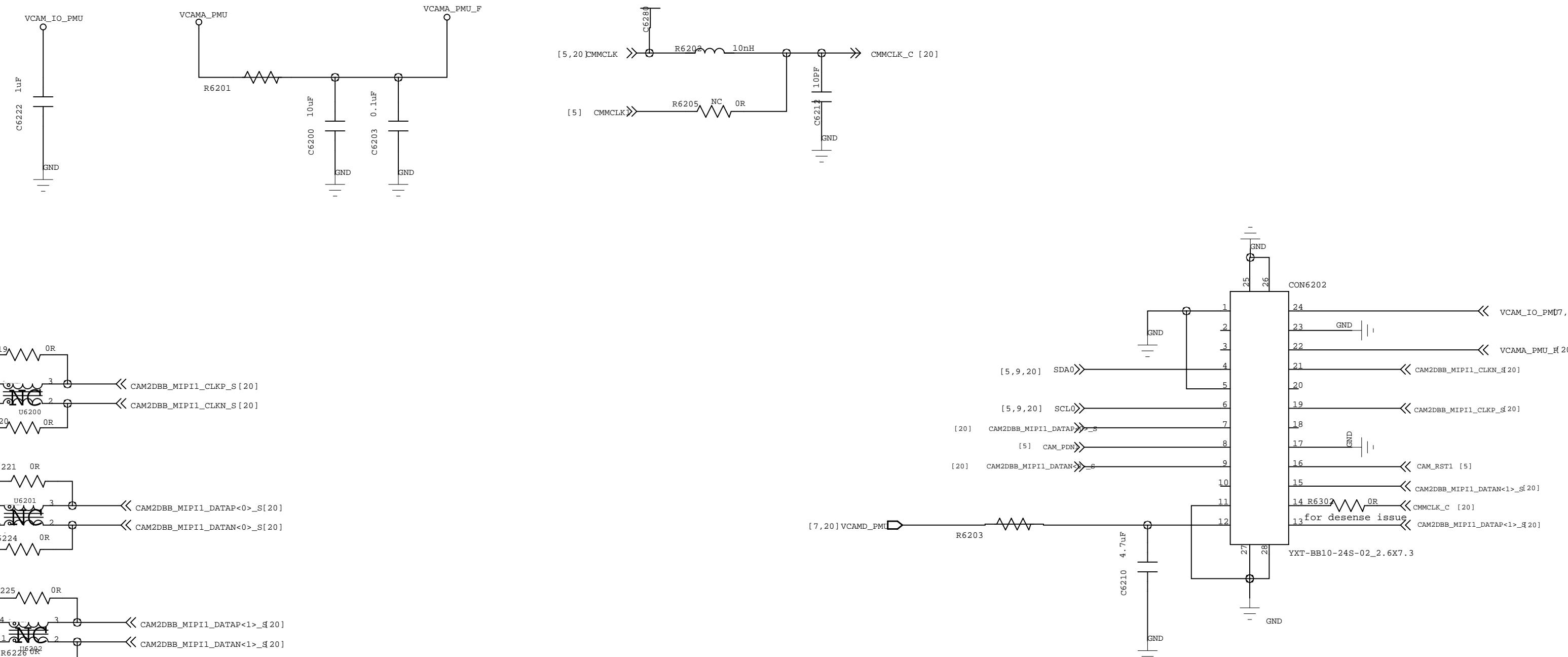


Title	61_PERI_LCD_CTP	
Size D	Yude Confidential	
Data	Sep 14, 2016	Sheet 61 of 99

## MAIN\_CAMERA



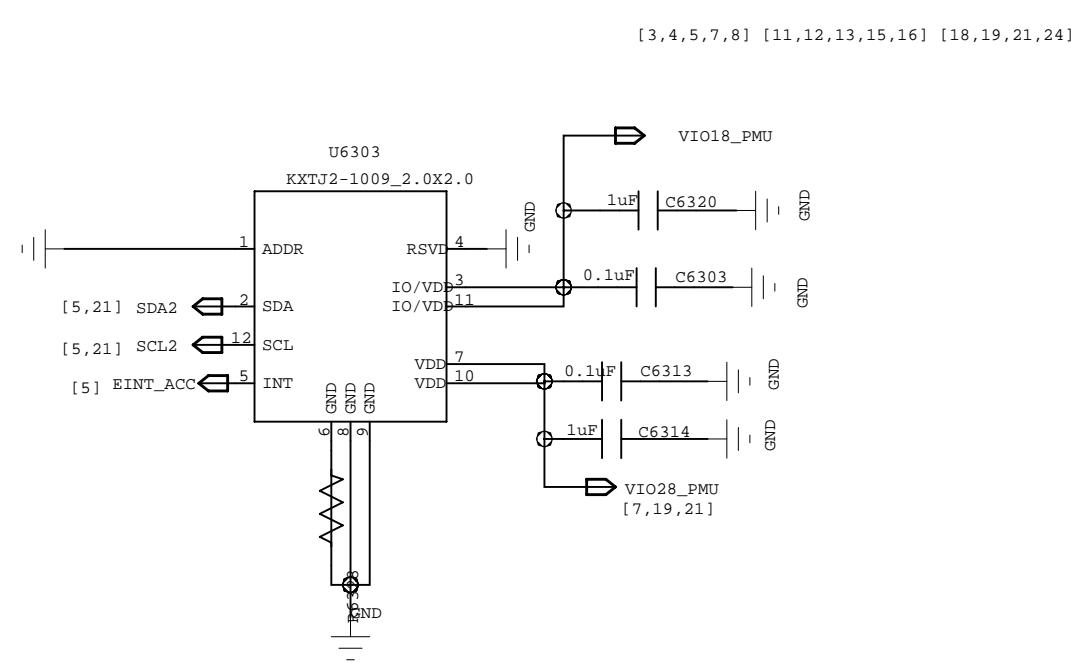
## SUB\_CAMERA



Need creat new sch,pcb

Title	62_PERI_CAMERA
Size	D Yude Confidential
Data	Sep 14, 2016

## G Sensor-3X



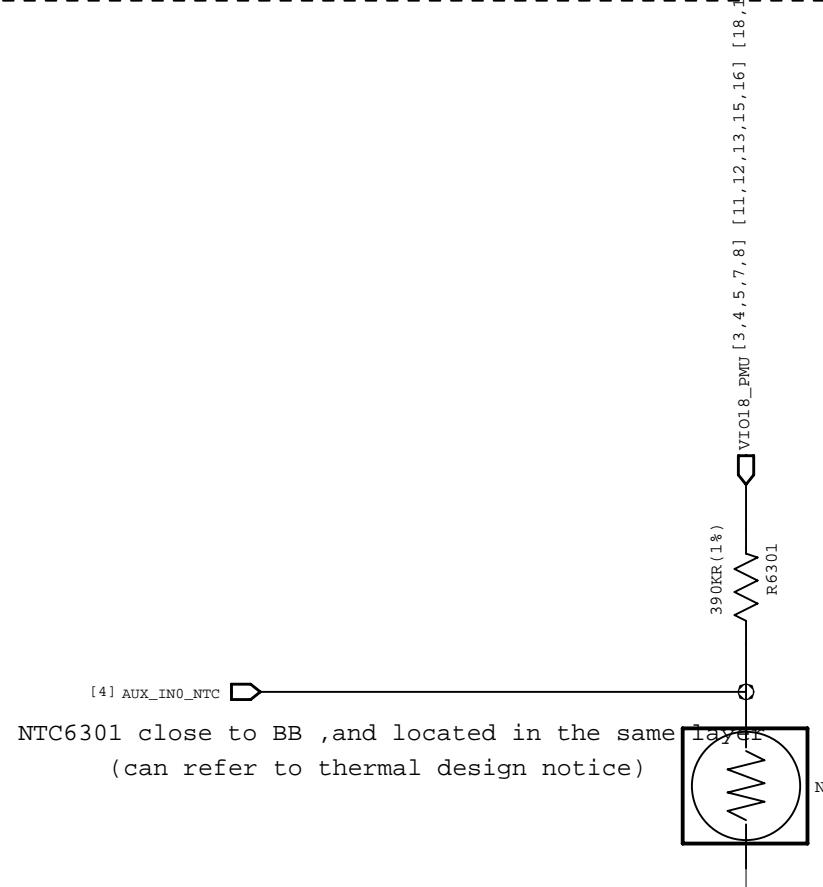
CS=1: IIC

LIS3DHTR : SA0=0: IIC ADDRRSS is 0x18H  
 KXCJK-1113 : SA0=0: IIC ADDRRSS is 0x1DH  
 power down(communicating), I = 0.5uA

Configuration VS Chip

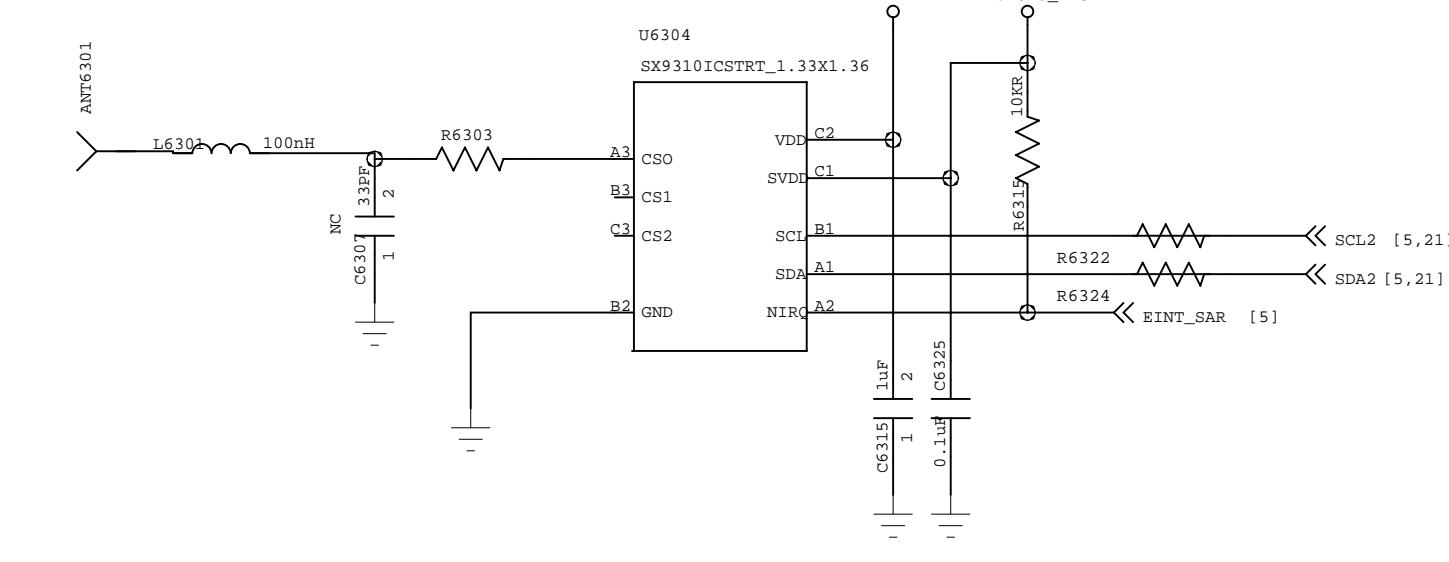
Fuction	U3001	C3004	C3005	C3006	R3003
G-Sensor	LIS3DHTR	NC	NC	NC	0
G-Sensor	KXCJK-1113	NC	NC	NC	0

Default LIS3DHTR



Thermistor / To sense board level temperature

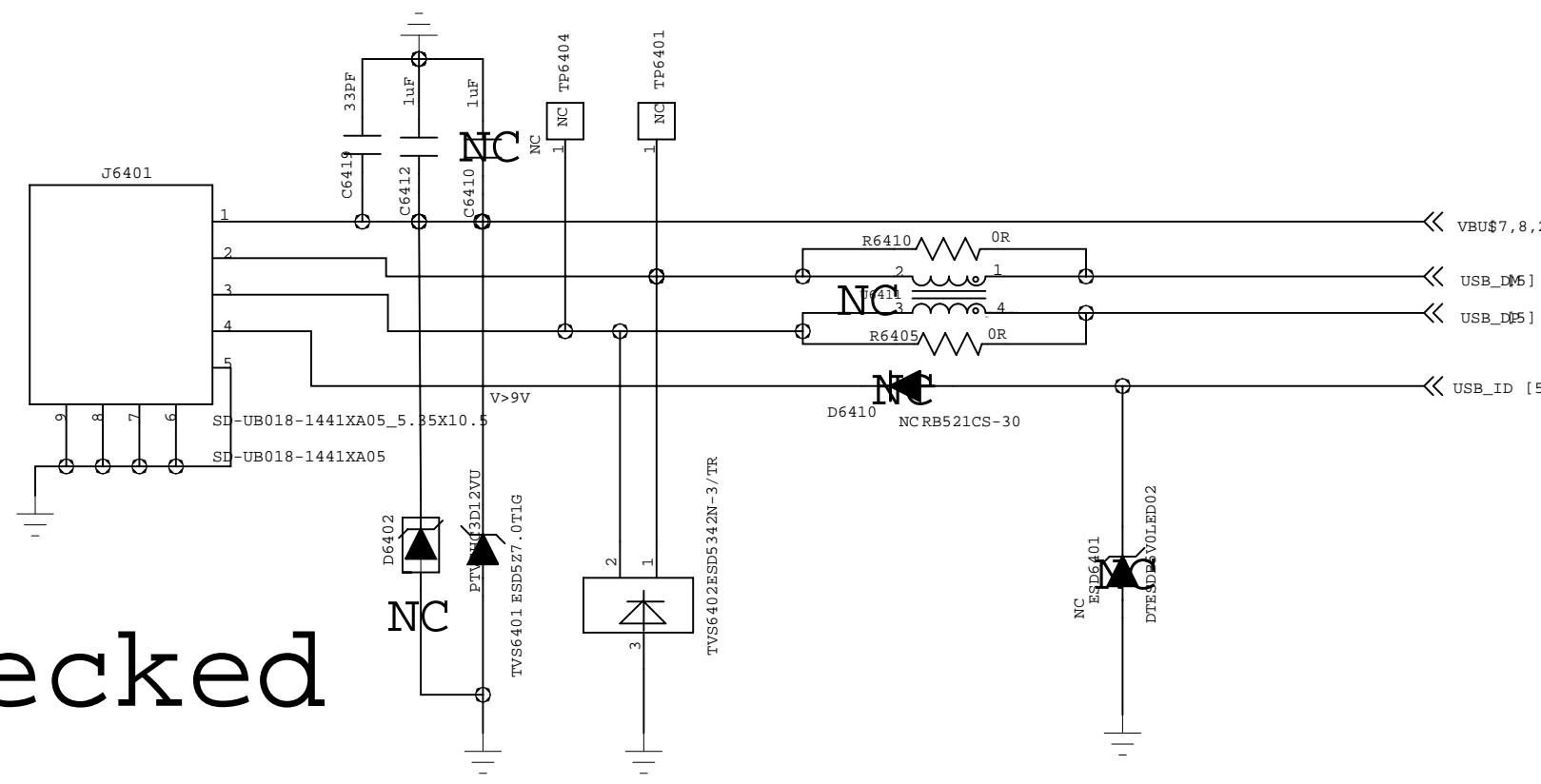
## SAR Sensor



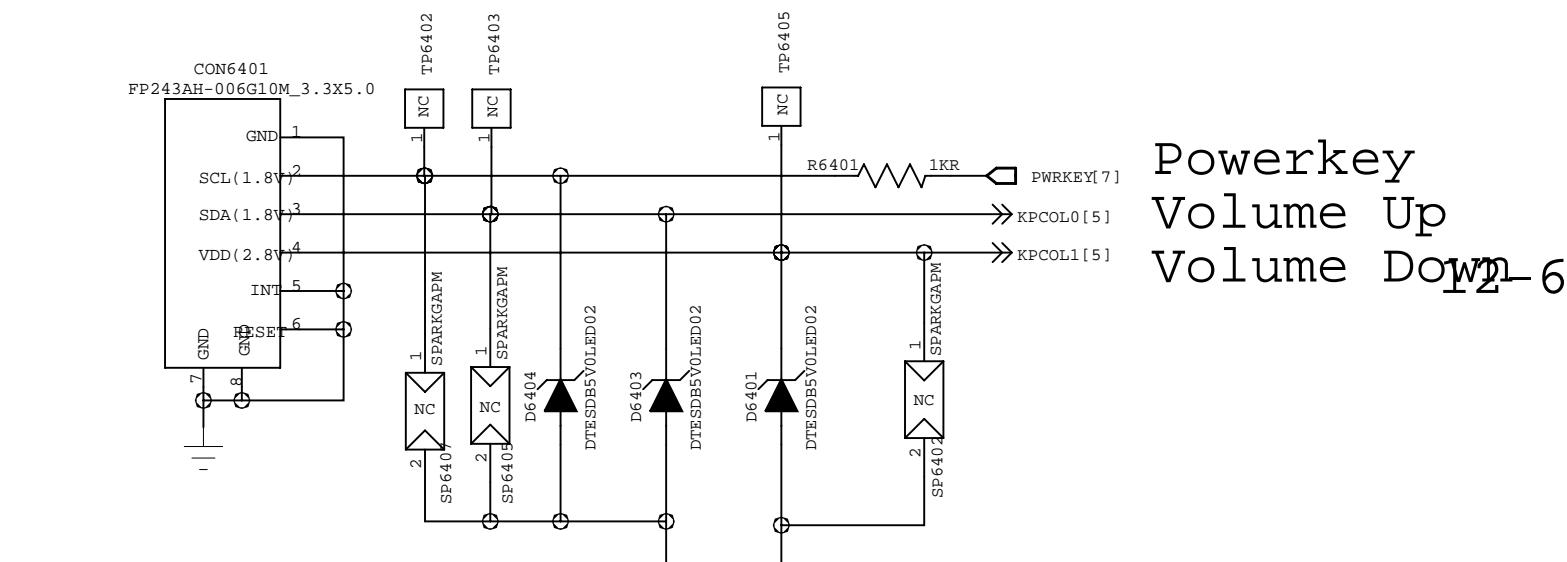
have checked

Title	63_PERI_SENSORS
Size	D Yude Confidential
Data	Sep 14, 2016
Sheet	11 of 99

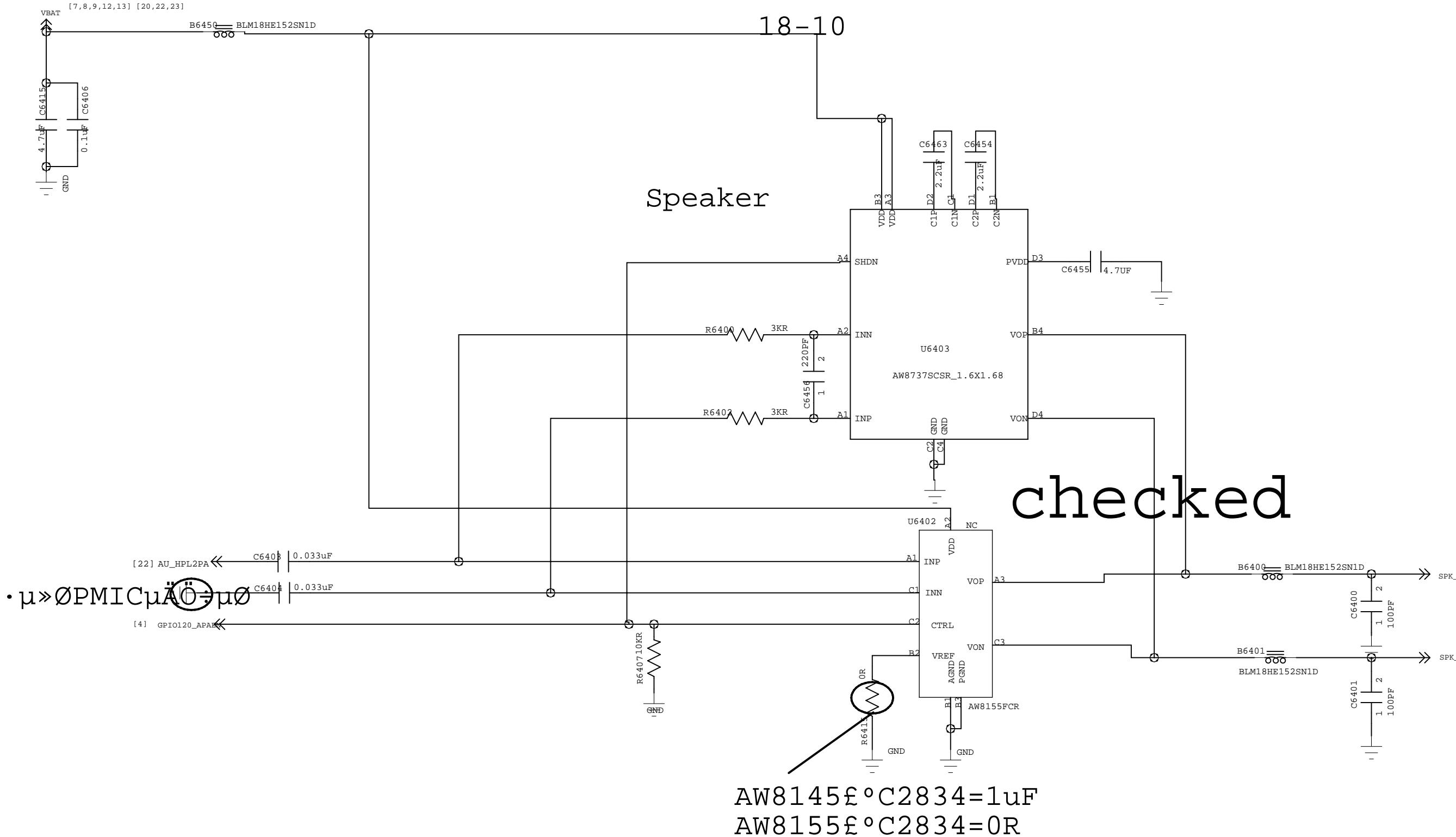
checked



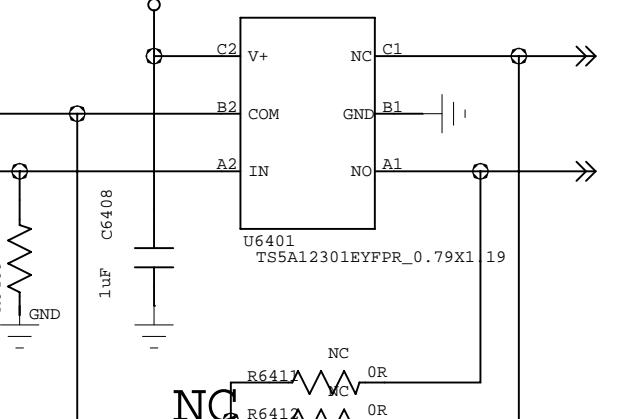
side key



checked

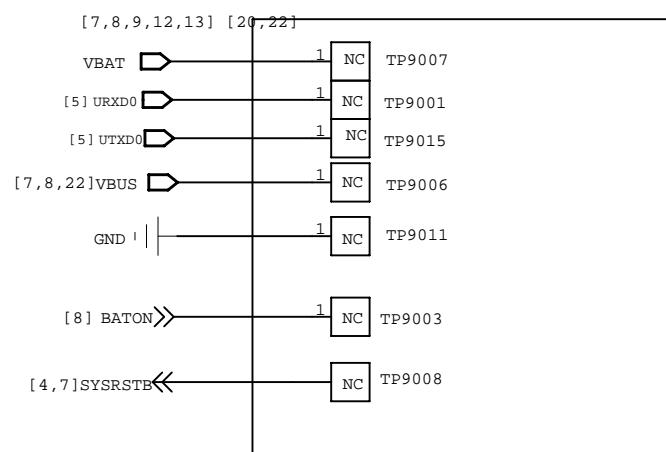


AU\_HPL to headset or audio PA.



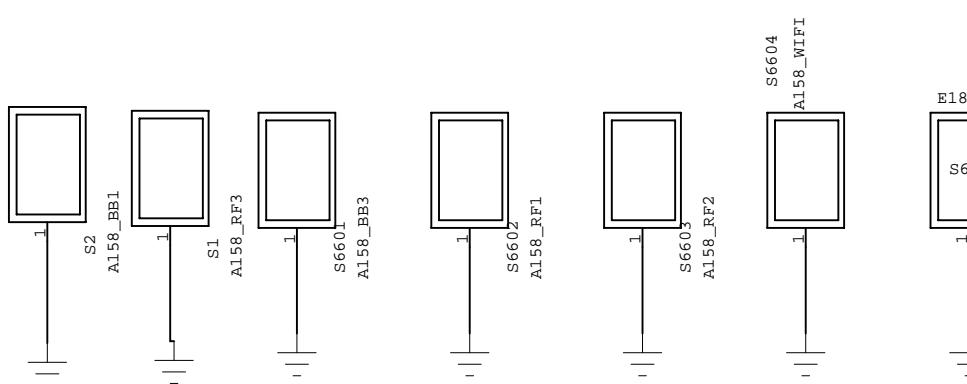
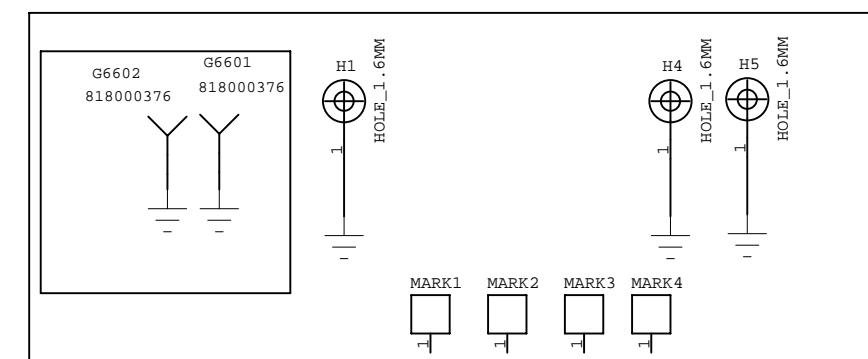
UARTÖ»ÊÇ<sup>2</sup>âÊÔ<sup>2</sup>»º' ÕÕÉÚ<sup>2</sup>úÒ<sup>a</sup>çÓ  
 ï<sup>a</sup> 1Ø»ú¼üµçÔ' ¼ü£¬USBº' ÕÕÉÚ<sup>2</sup>úÒ<sup>a</sup>çÓºÚ·Å2.5mm

### TEST POINTS



NC

%Óµøµ-Æ¬, Ä818000376



have checked

Title 65_TEST POINT	
Size D	Yude Confidential
Data Sep 14, 2016	Sheet 11 of 99

