

# Xiaomi Redmi Note 8 (LLDM516) Schematic Diagram



Xiaomi  
Smartphone

*Diagram*

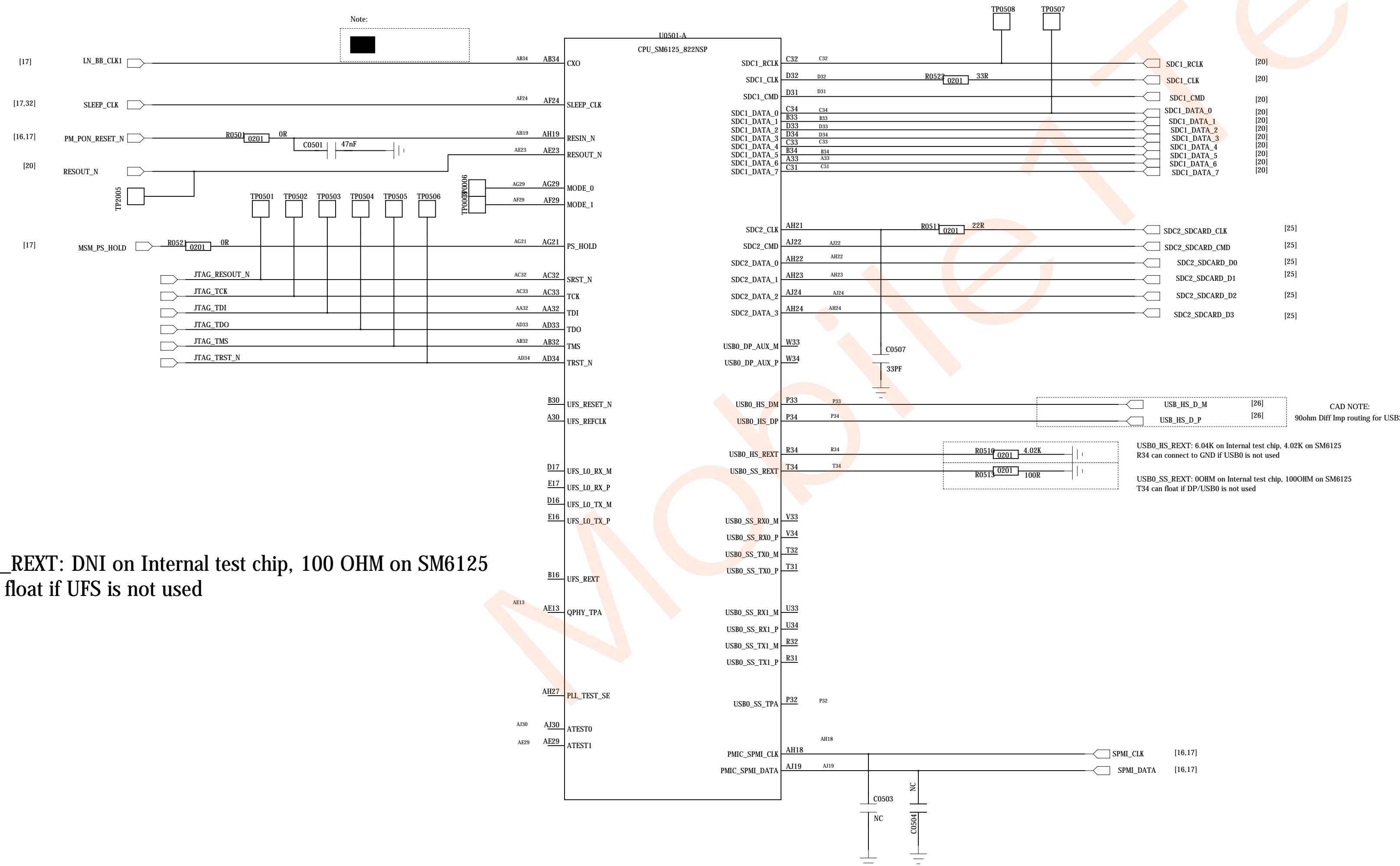


*Schematic*





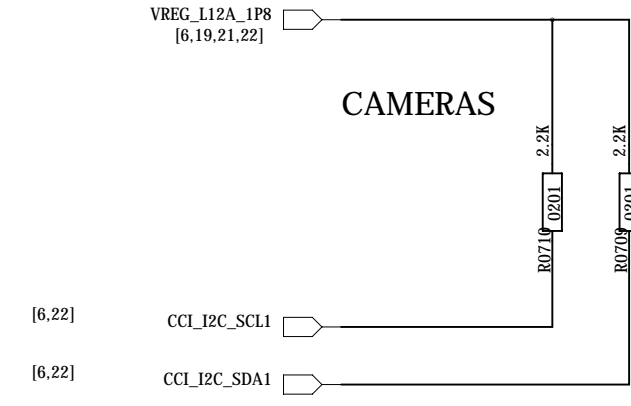
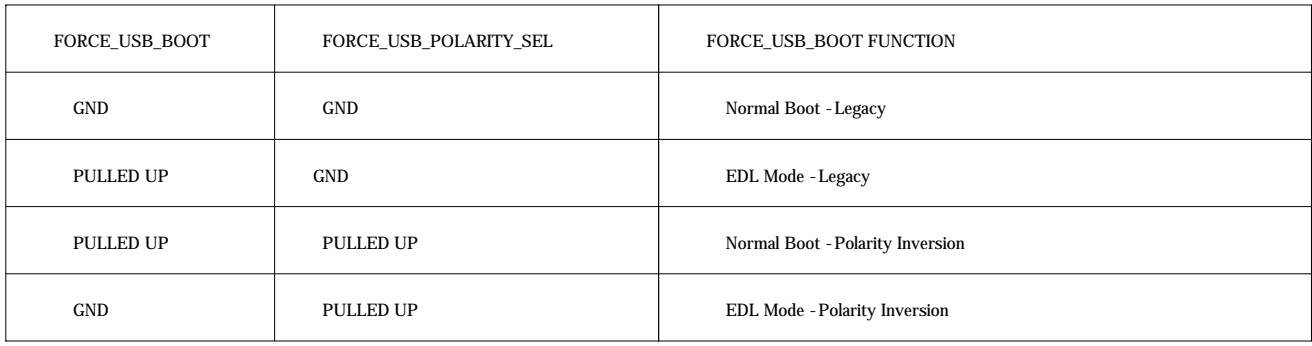
REVISION RECORD			
ITP	REV NO.	APPROVED	DATE



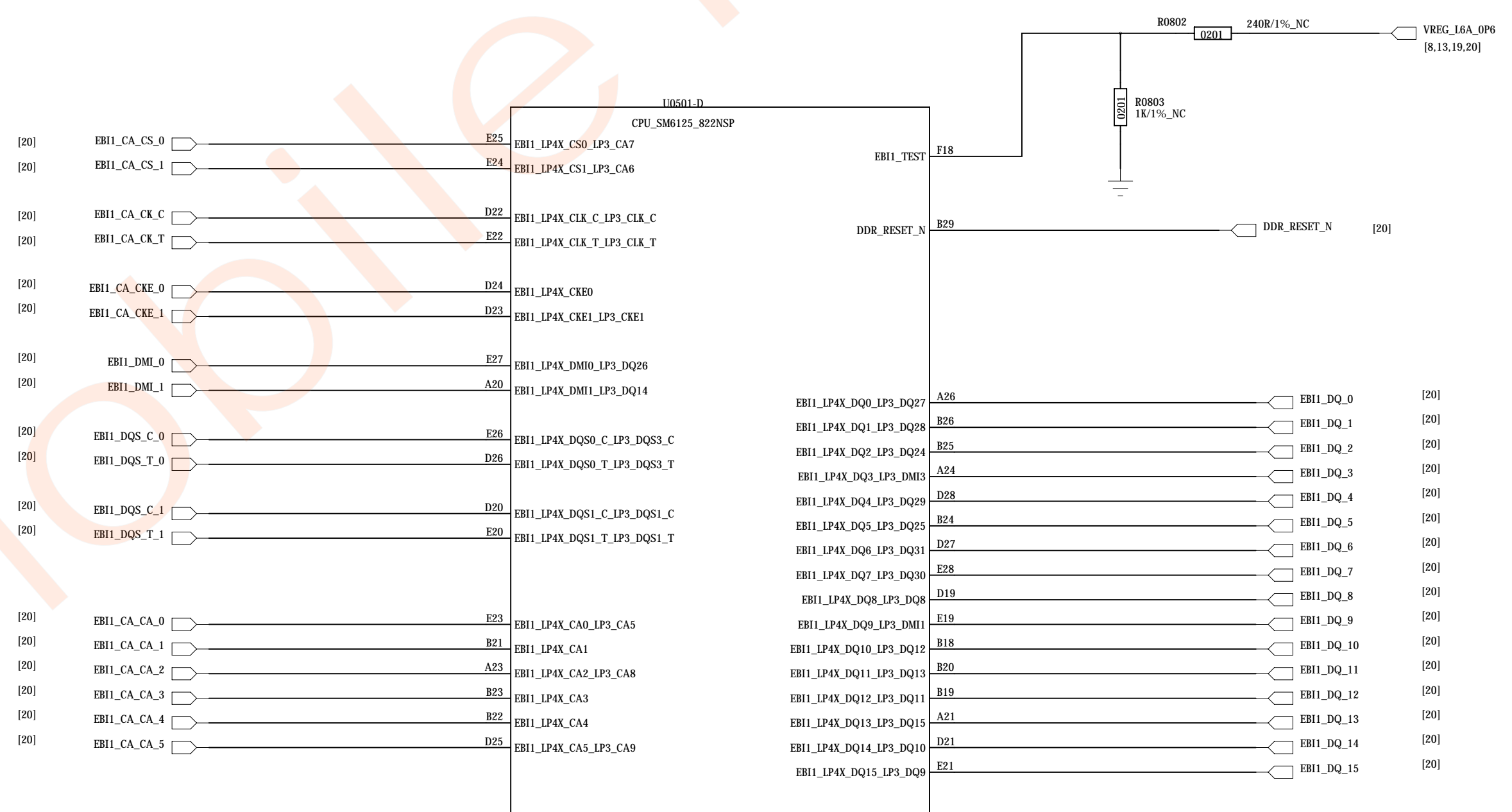
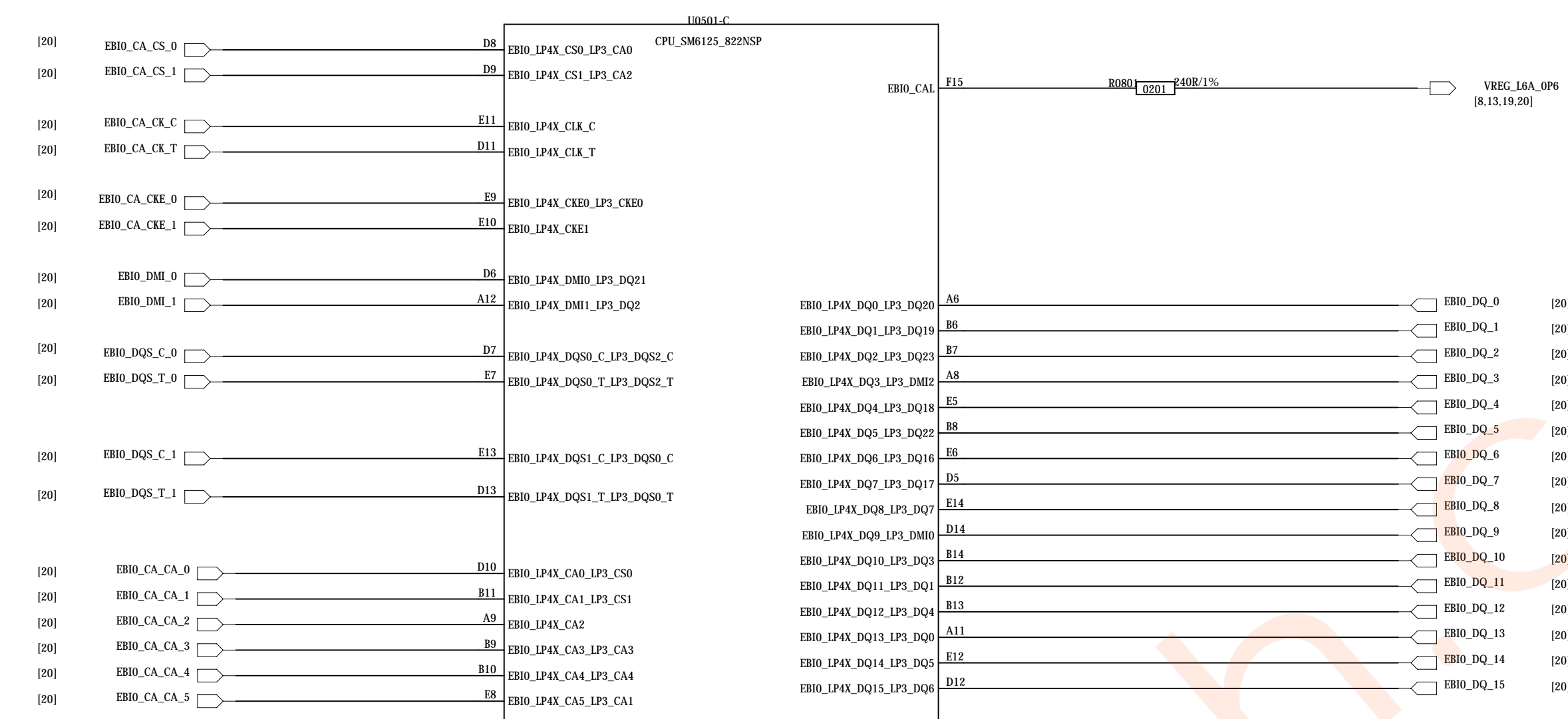
UFS\_REXT: DNI on Internal test chip, 100 OHM on SM6125  
Can float if UFS is not used

		COMPANY 			
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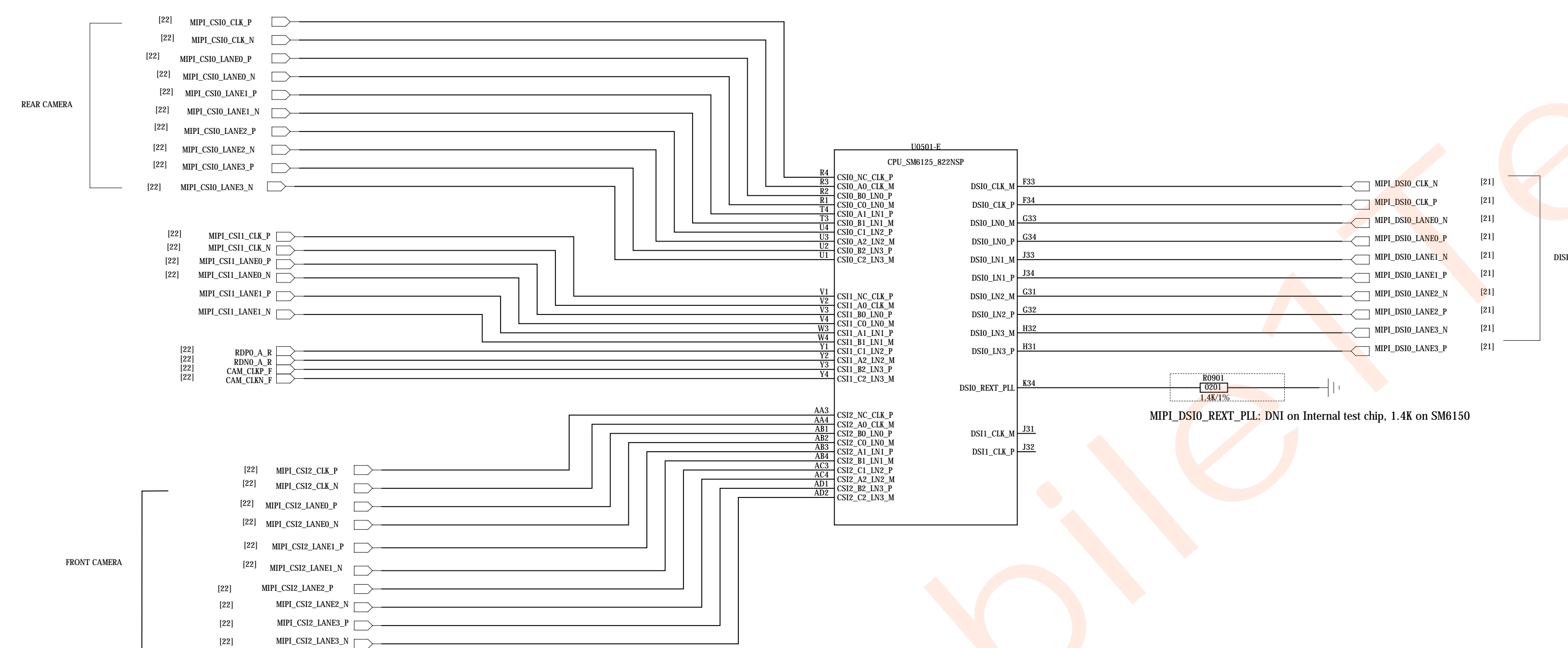


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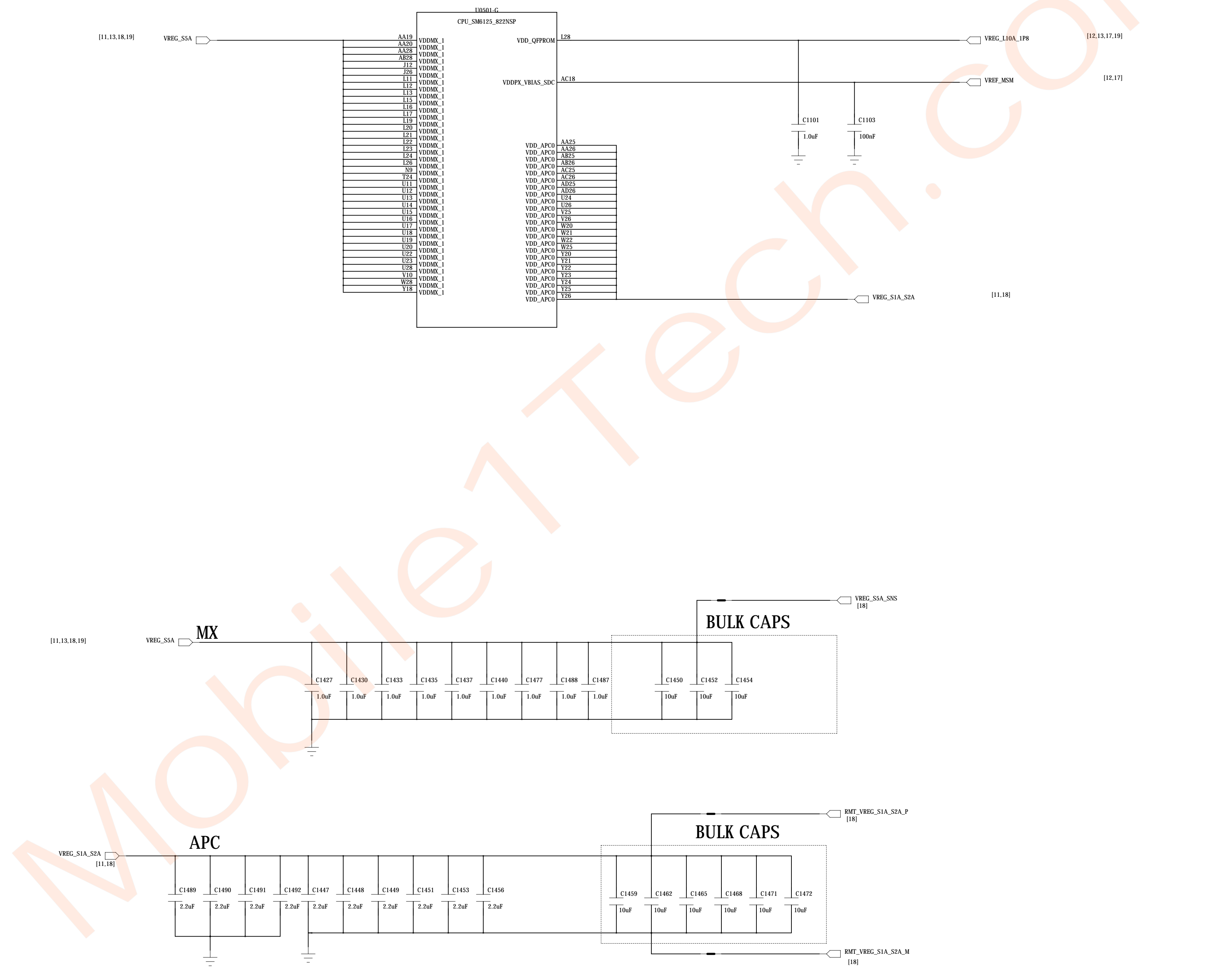
D

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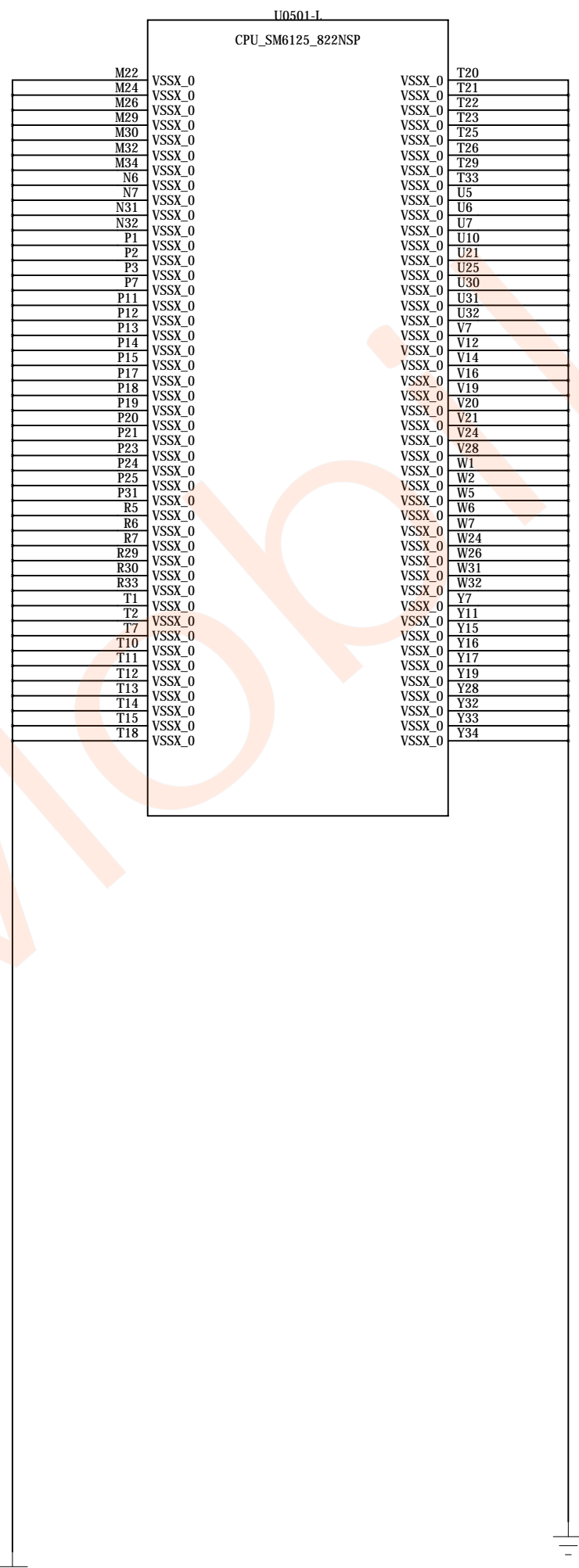
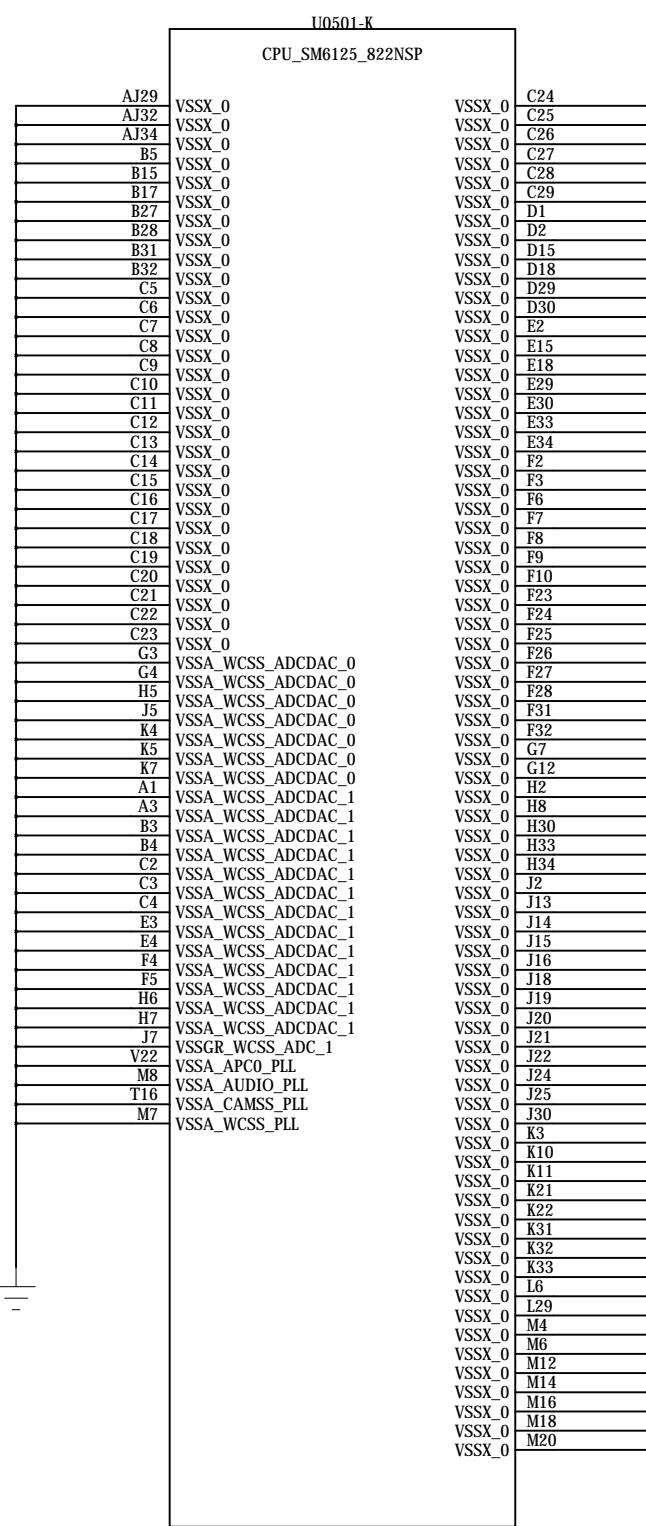
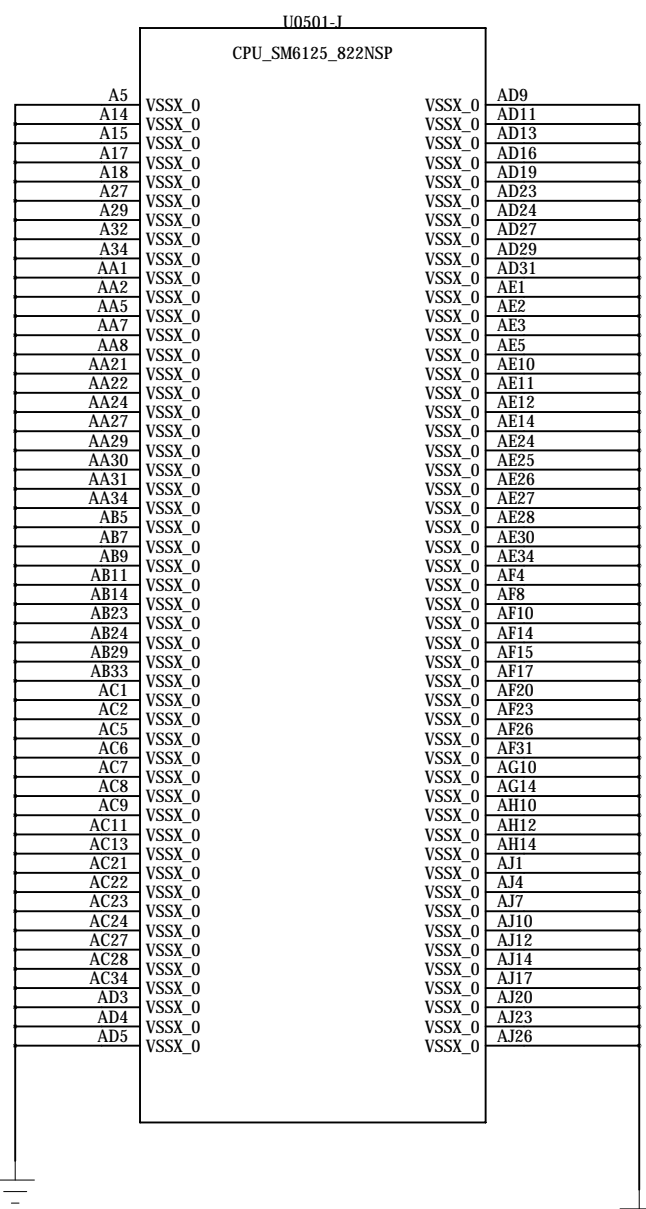








REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE

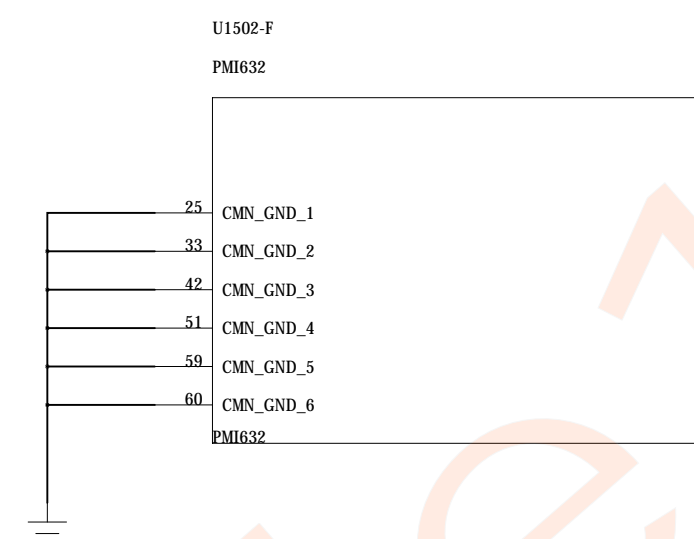
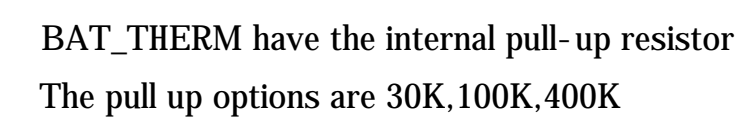


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CHECKED: <Checked By>		DATE: <Checked Date>		TITLE: <Title>			
QUALITY CONTROL: <QC By>		DATE: <QC Date>		CODE: <Code>	SIZE: A0	DRAWING NO: <Drawing Number>	REV: <Revision>
RELEASED: <Released By>		DATE: <Release Date>		SCALE: <Scale> SHEET: 44 34			



Use C1301 = 2.2uF for Parallel Charging Config

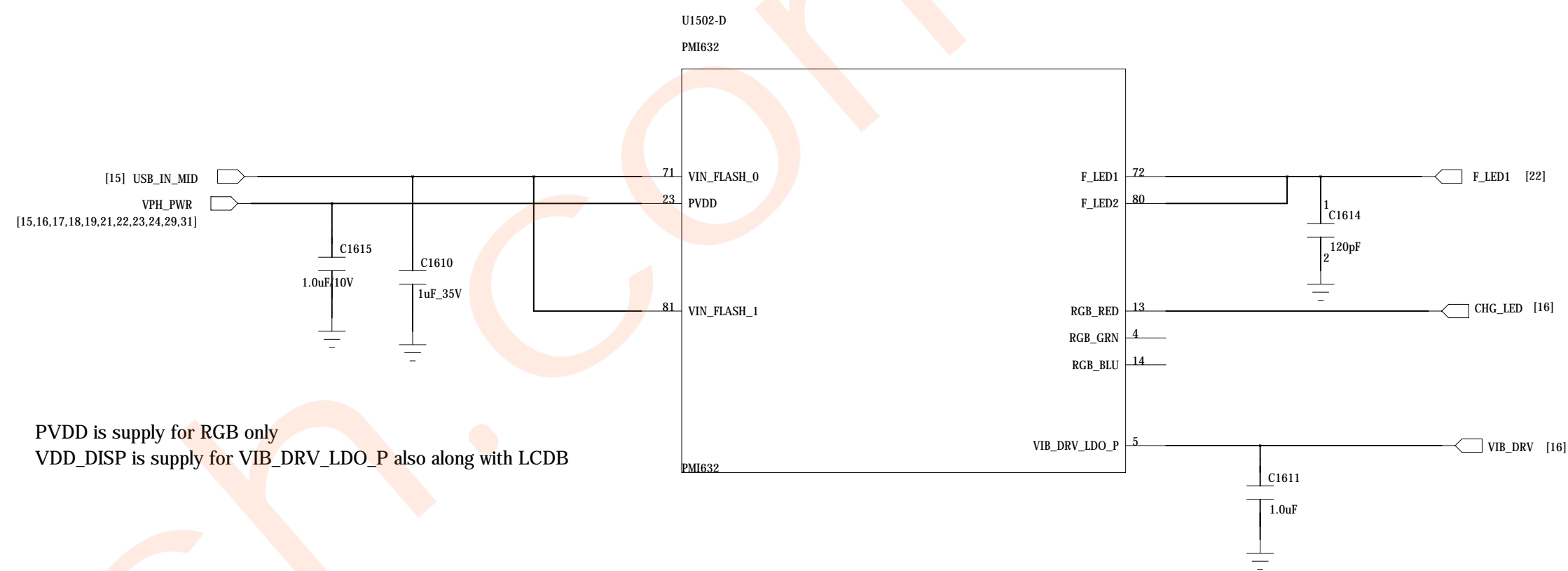
16V  
via directly to GND



## PMI8952 Charger

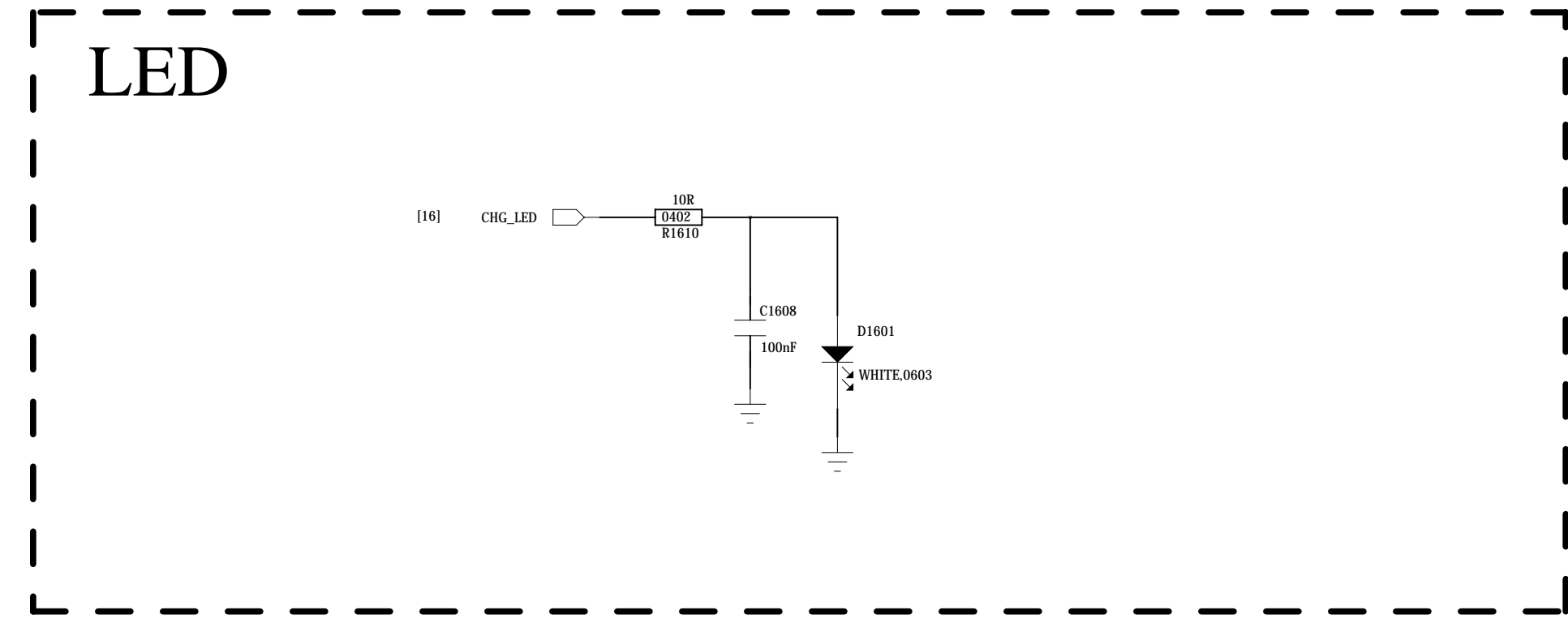


		COMPANY: <div>&lt;Company Name&gt;</div>			
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DRAWN: <Drawn By>	DATE: <Drawn Date>				
CHECKED: <Checked By>	DATE: <Checked Date>	CODE	SIZE	DRAWING NO.	REV.
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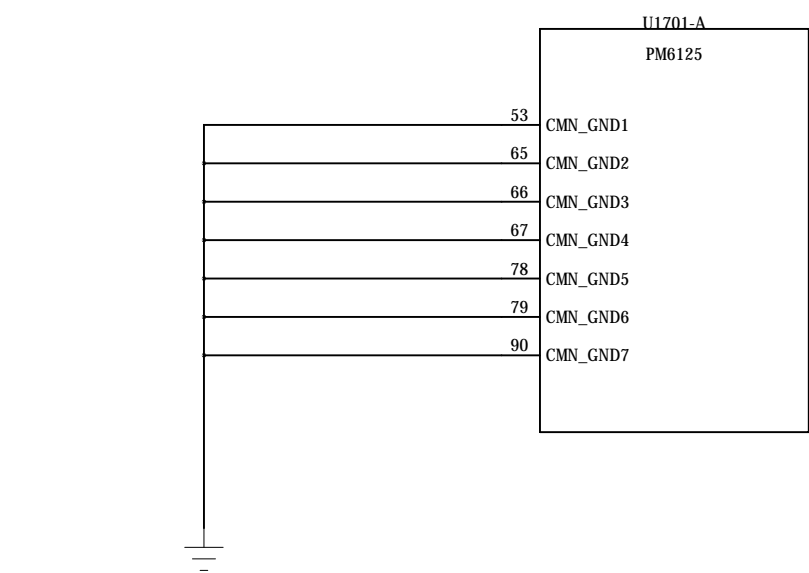
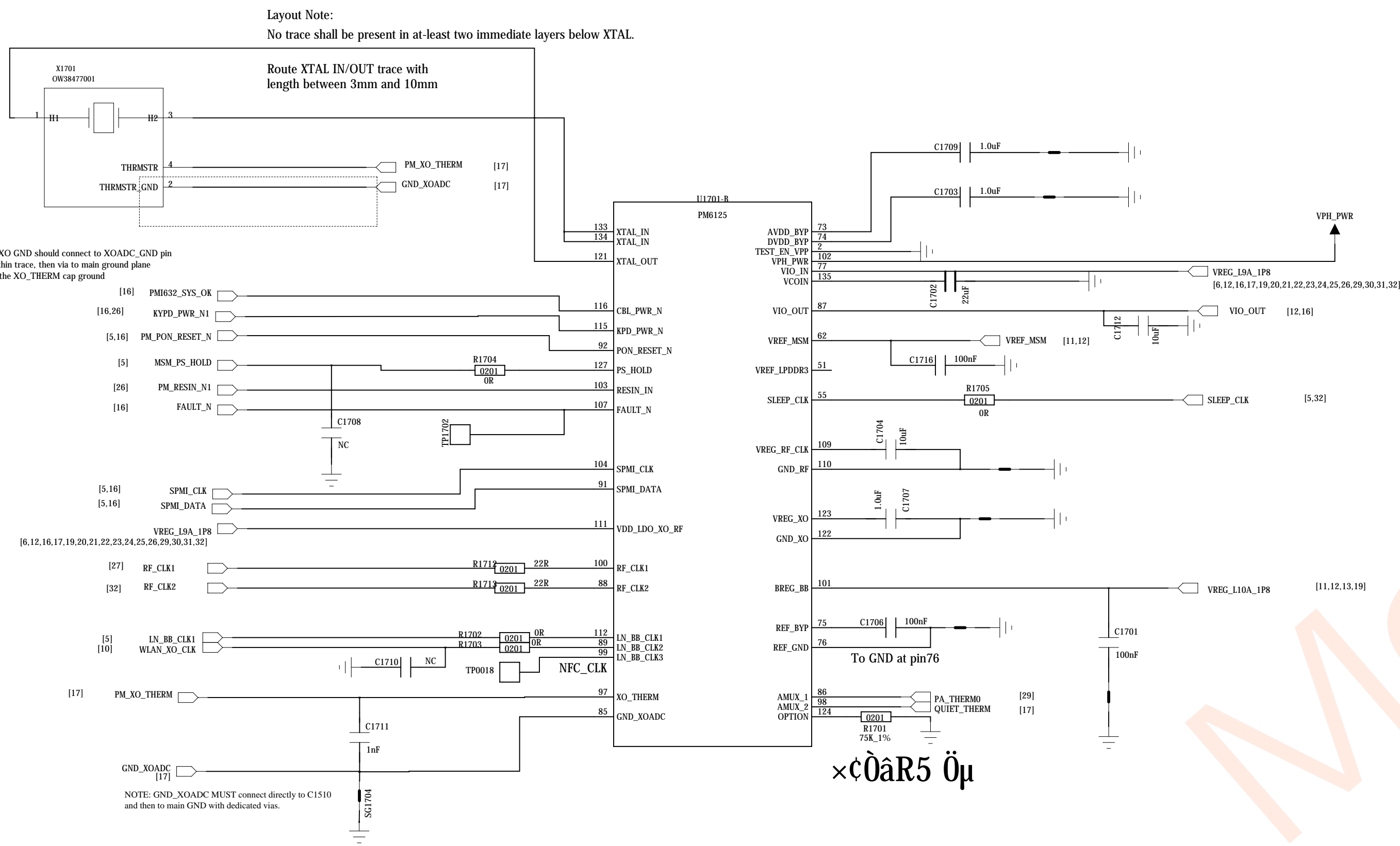
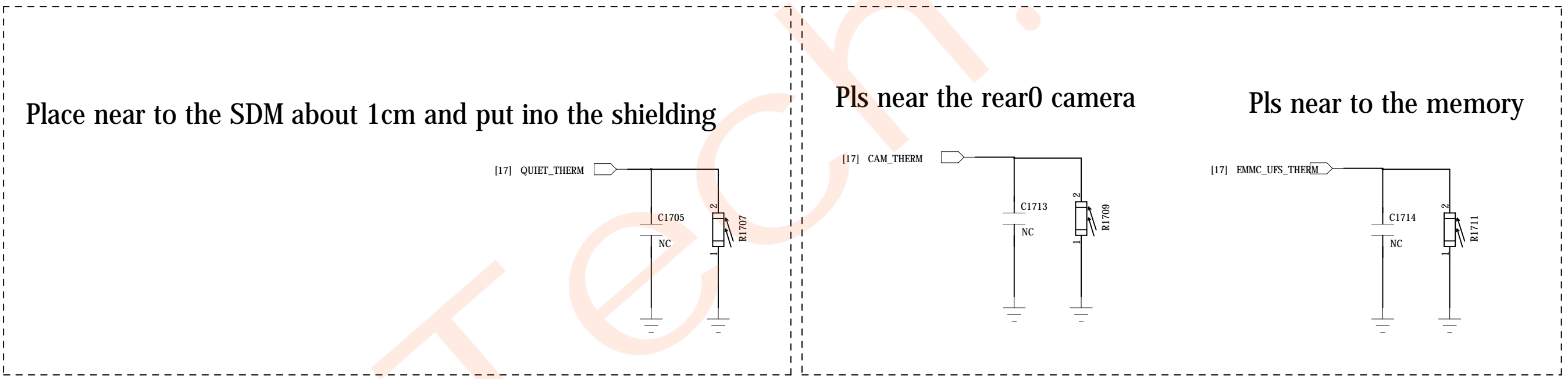
Layout Note: VDISP\_CAPx  
Place fly cap as close to the pin as possible.  
Avoid routing VDISP\_CAP1 trace under VDISP\_M\_OUT.

Layout Note: DISP\_HW\_EN  
This signal is used for 'Display Tap to Wake'  
If unused in HW, this pin should be connected to GND  
Bench DC - Connect to a DIO for testability





REVISION RECORD			
VER	REV NO.	APPROVED	DATE

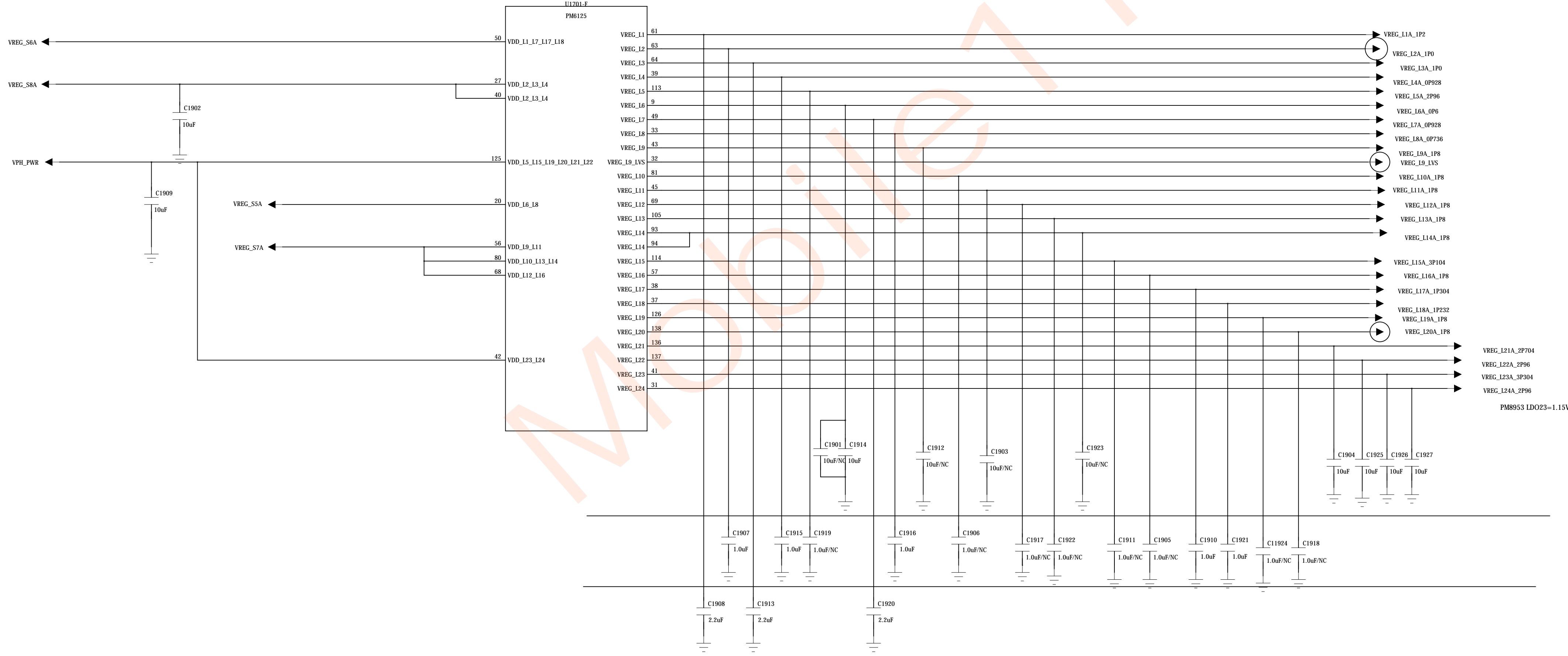








REVISION RECORD			
ITR	ECO NO.	APPROVED	DATE



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DRAWN: <Drawn By>	DATE: <Drawn Date>		
CHECKED: <Checked By>	DATE: <Checked Date>	CODE	SIZE
QUALITY CONTROL: <QC By>	DATE: <QC Date>	DRAWING NO.	
RELEASED: <Released By>	DATE: <Release Date>	REV.	
SCALE: <Scale>		SHEET: 40 34	



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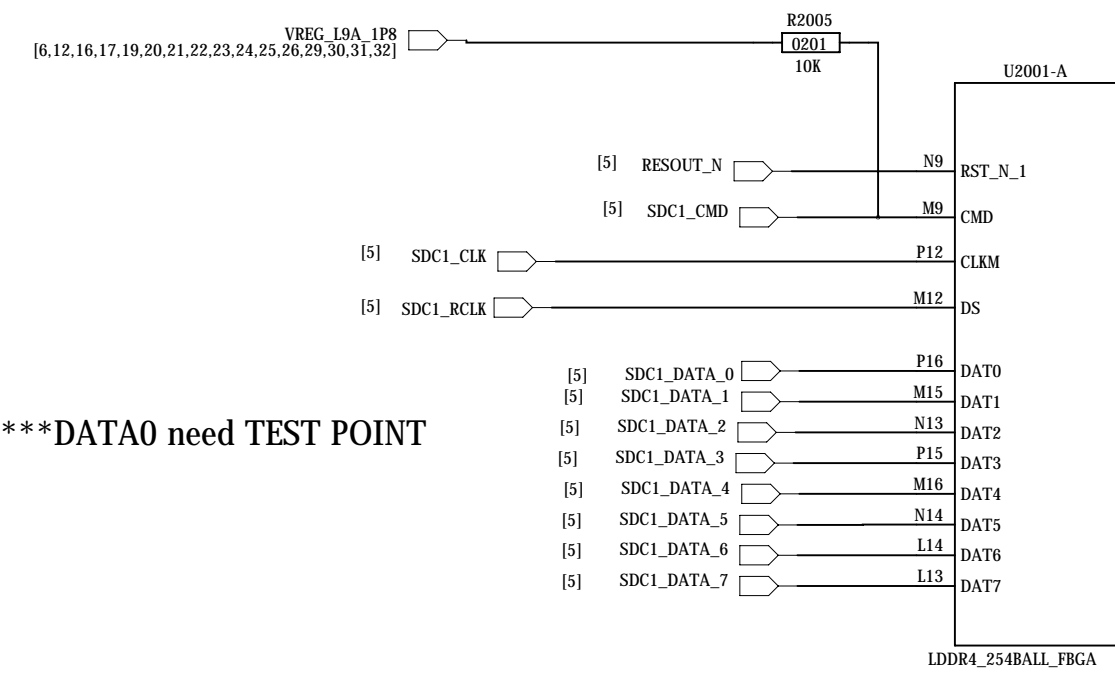
D

C

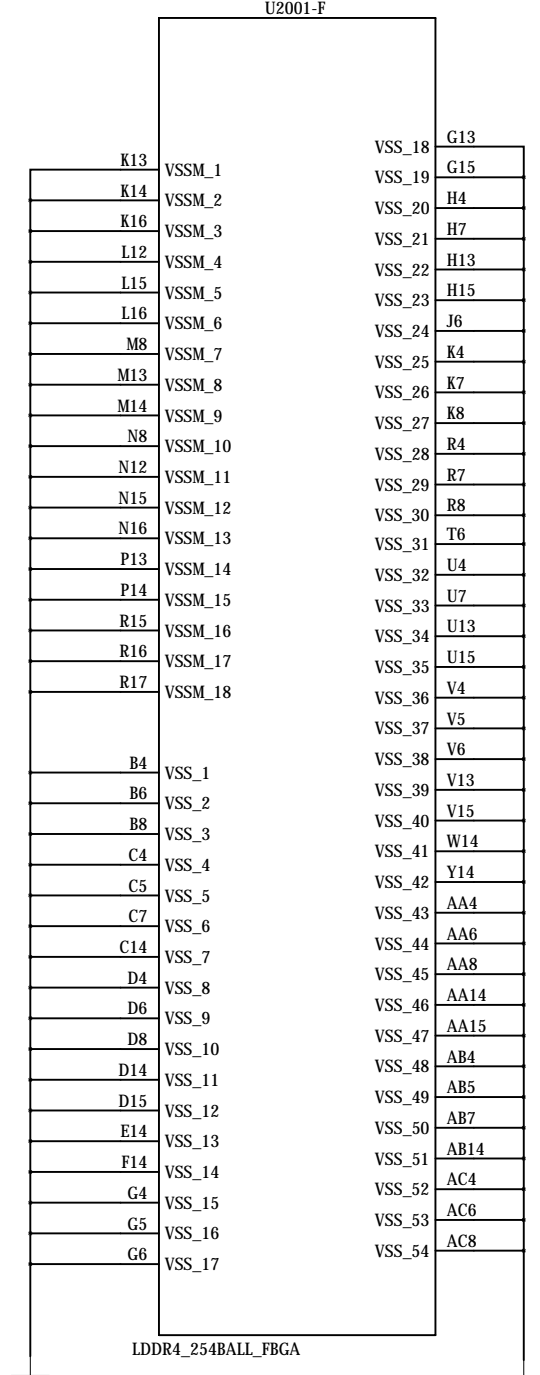
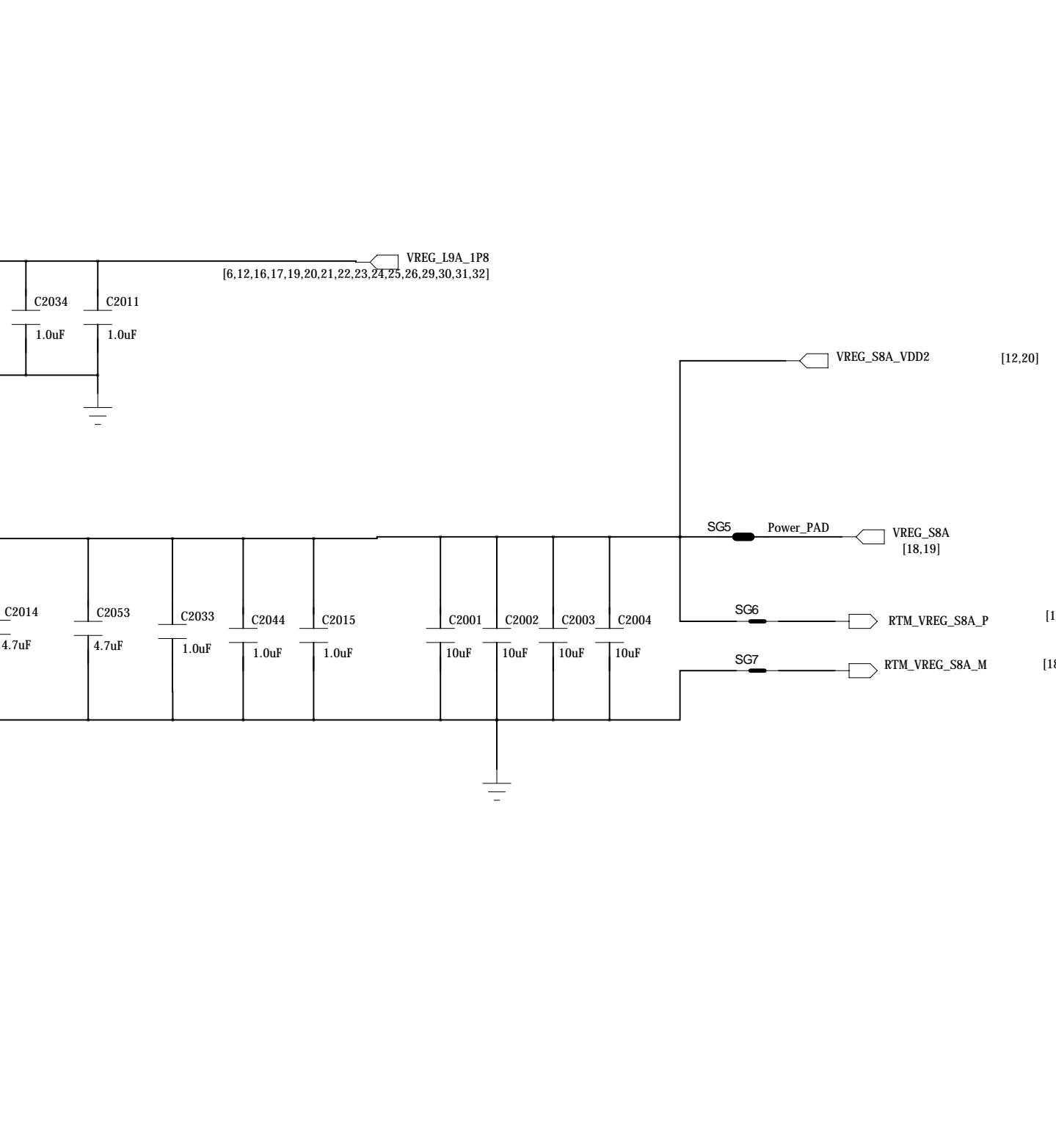
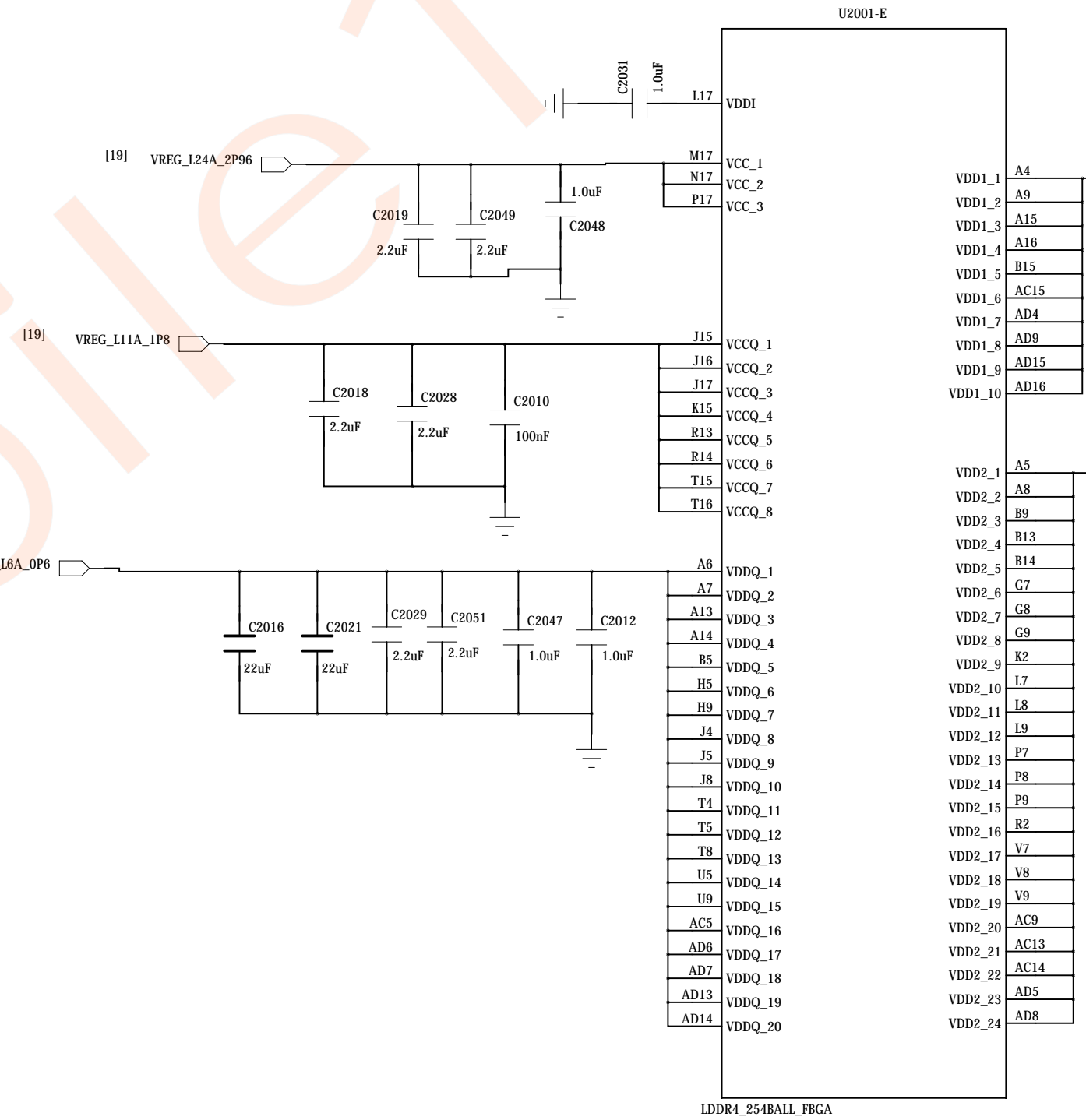
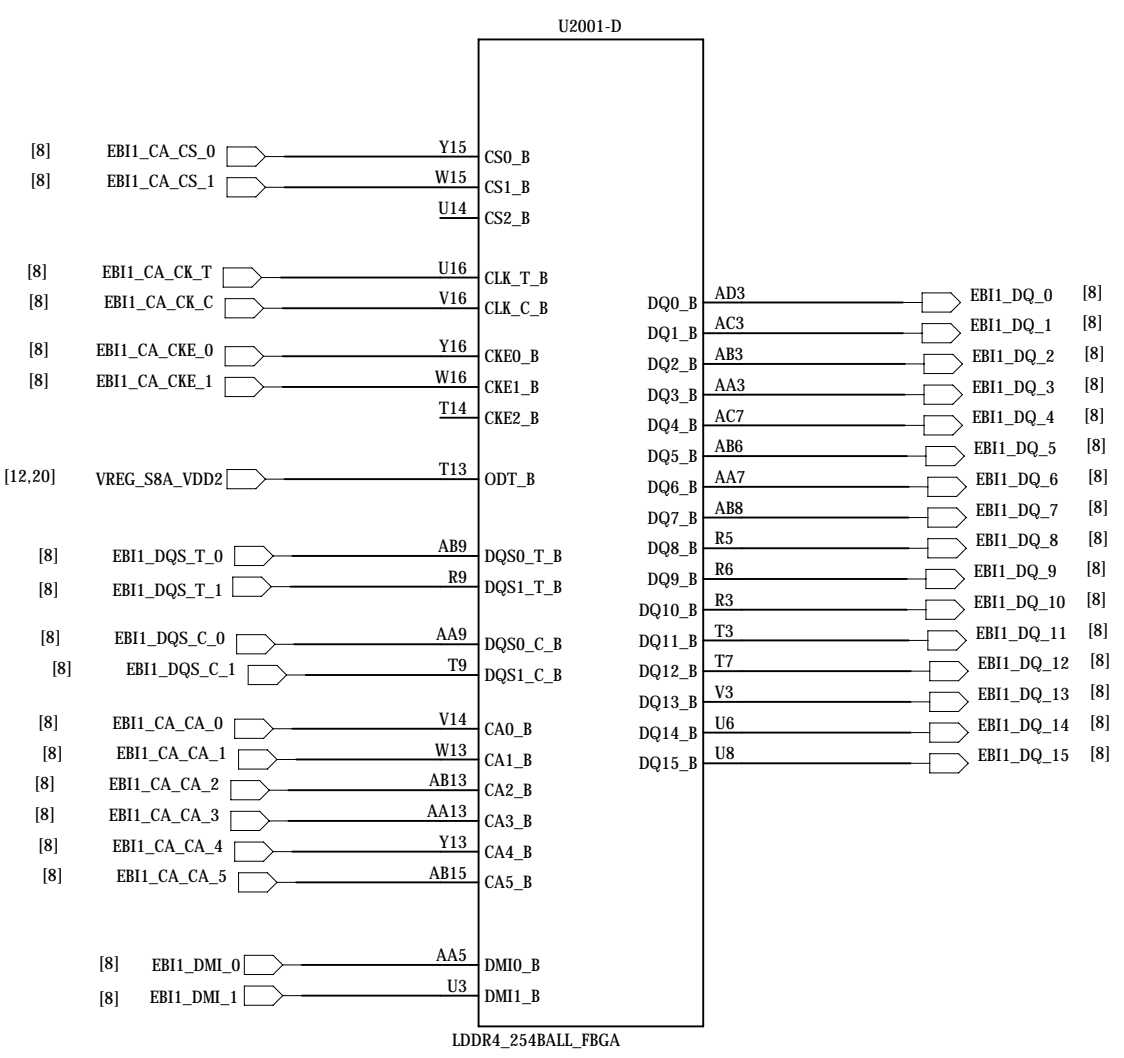
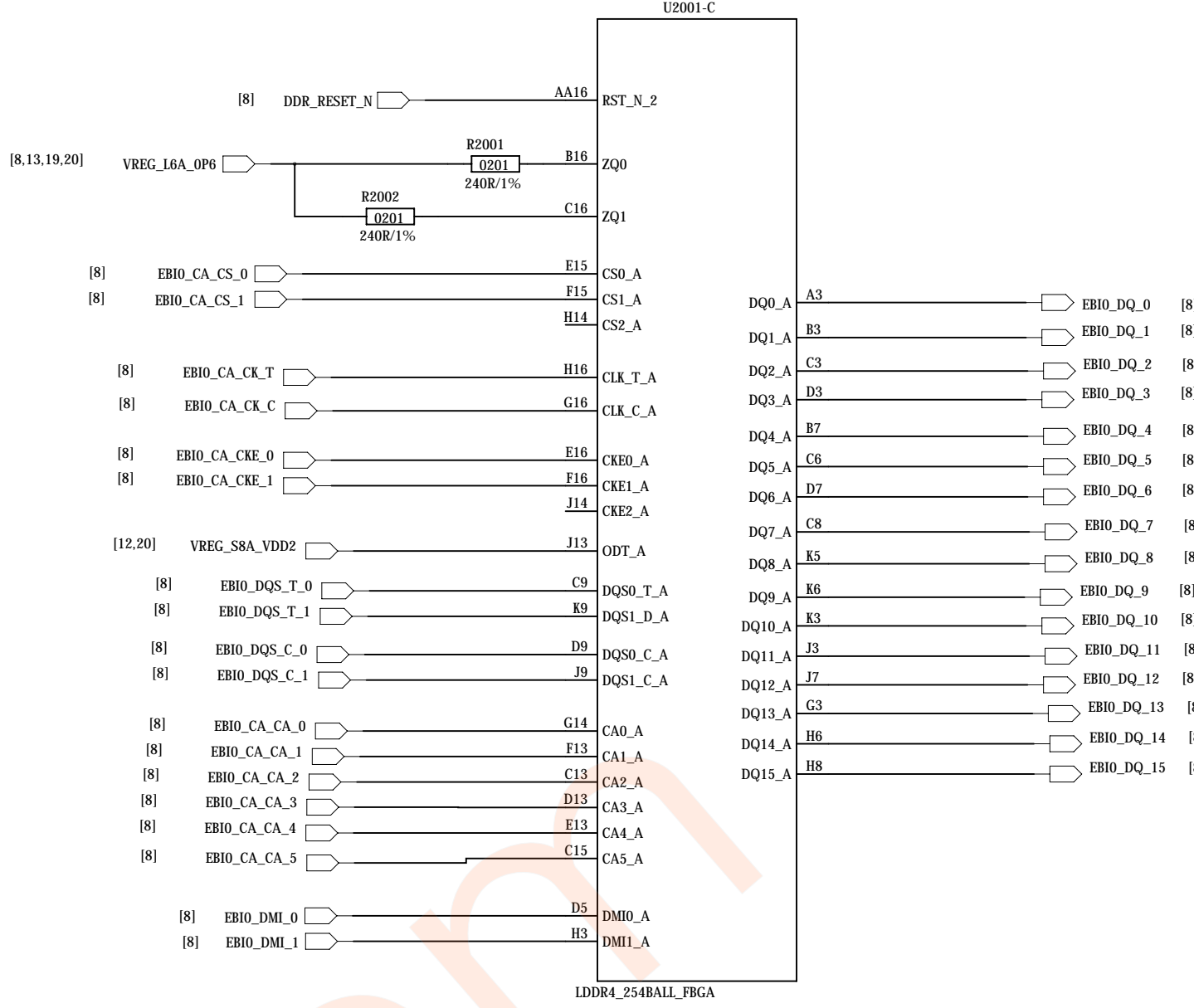
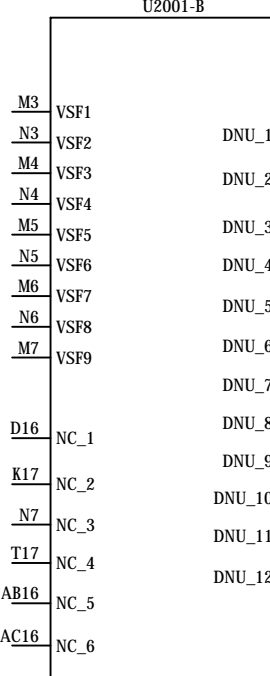
B

A

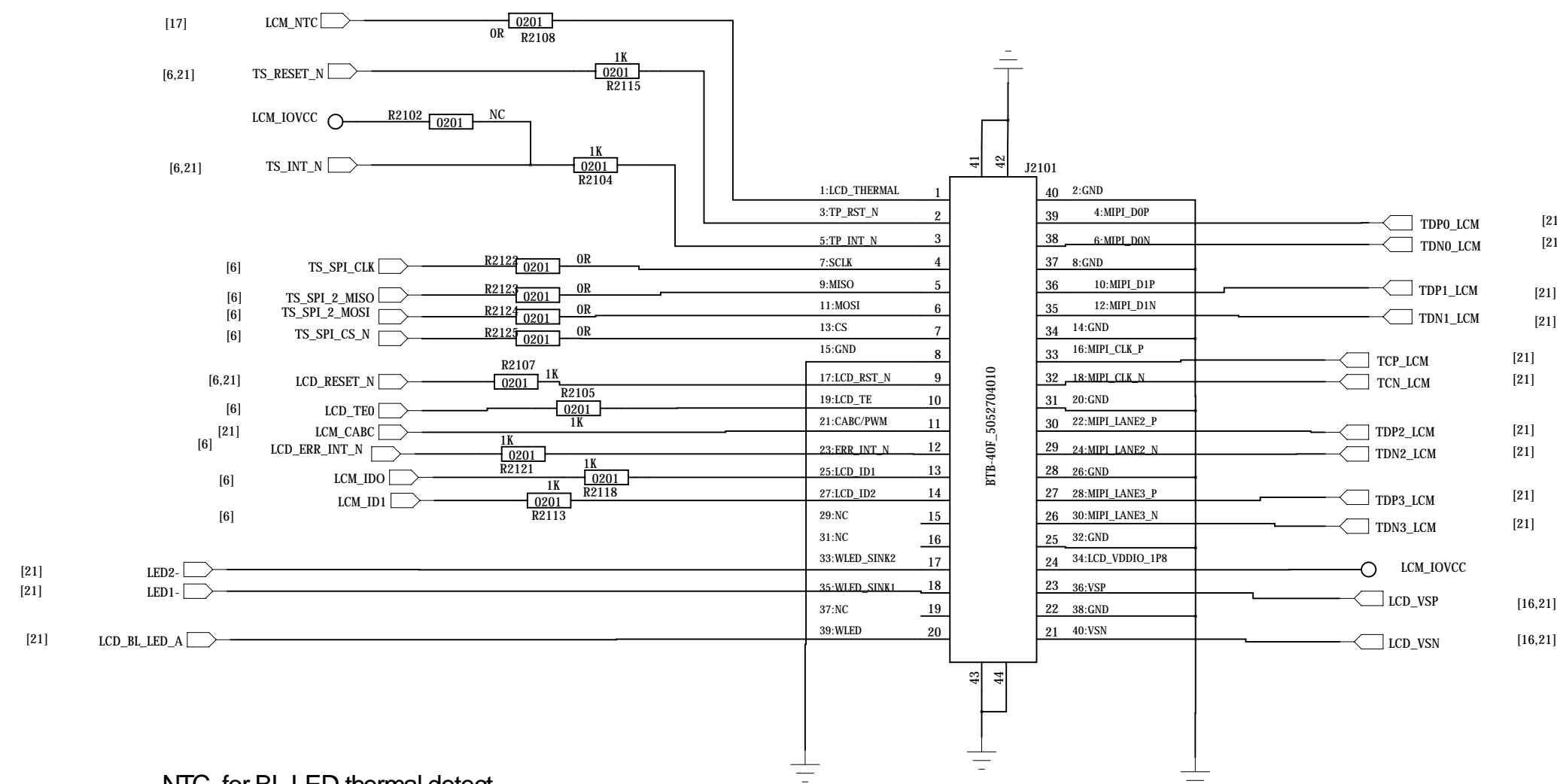
REVISION RECORD			
VER	REV NO	APPROVED	DATE



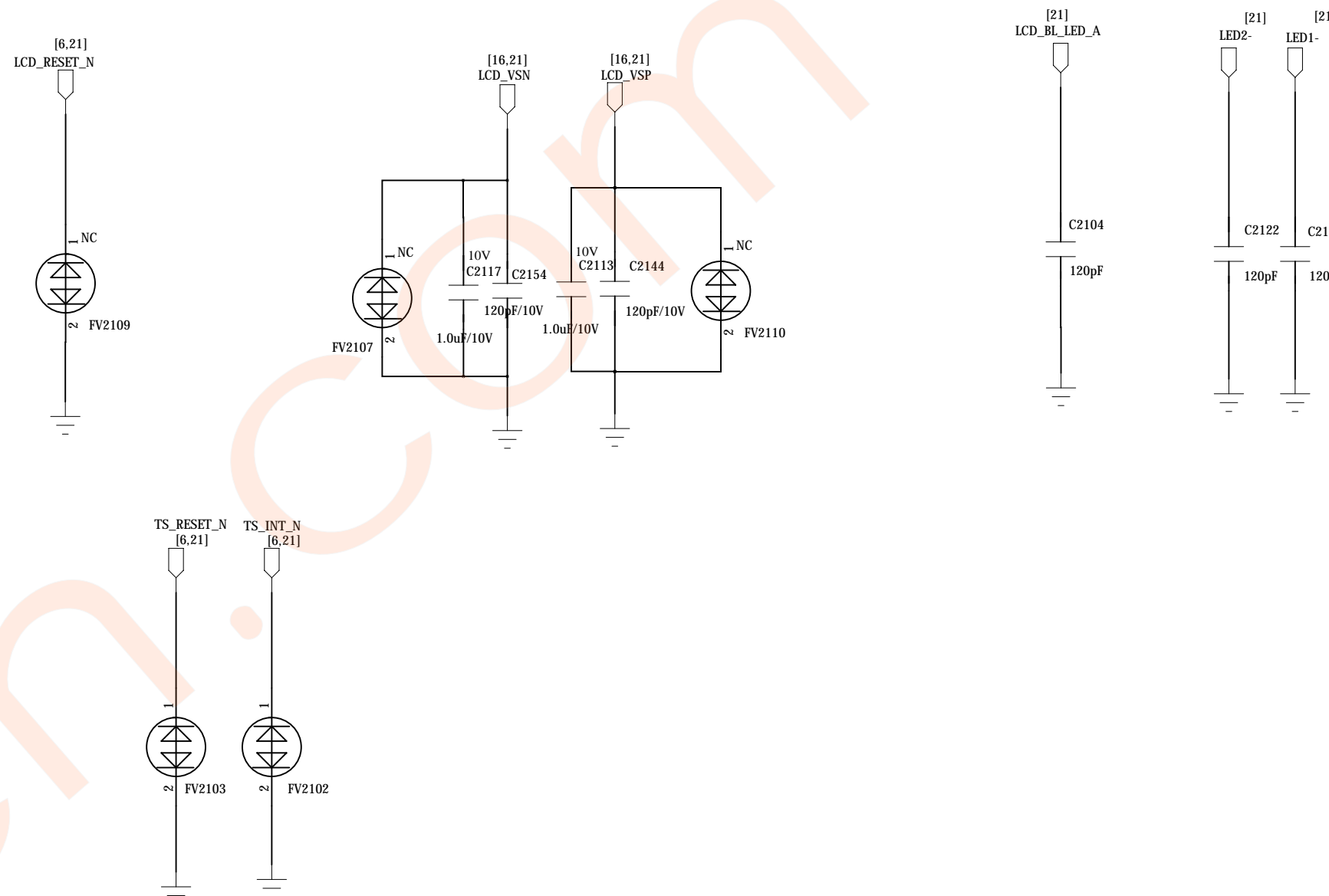
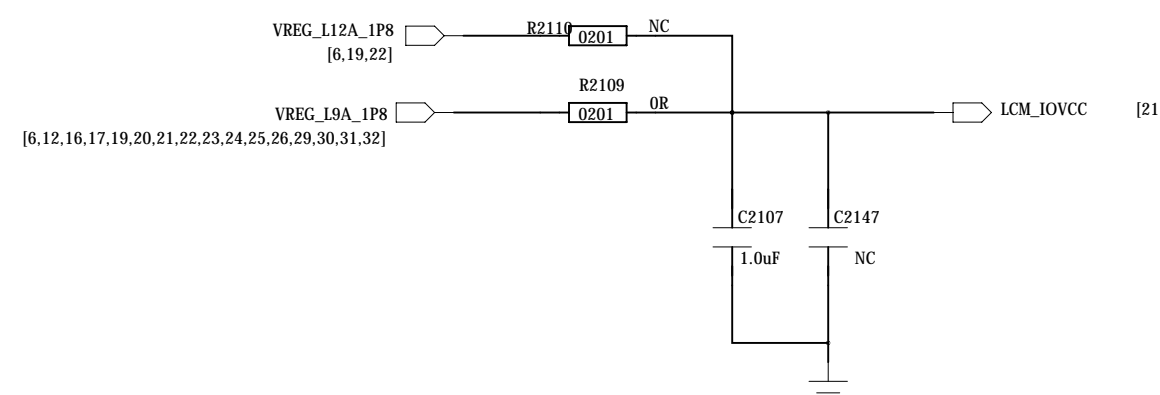
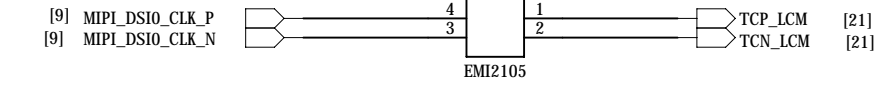
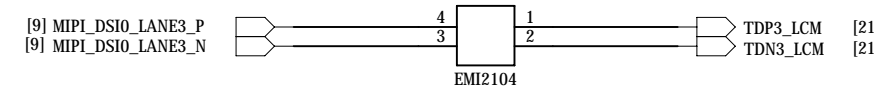
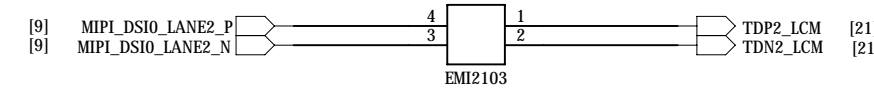
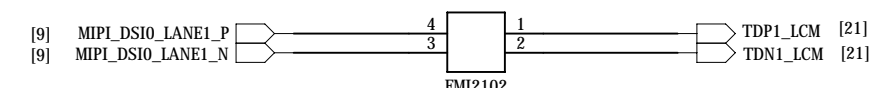
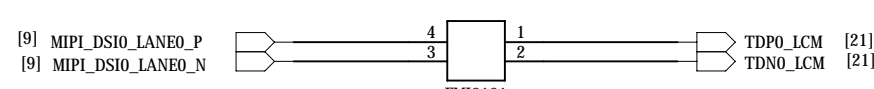
\*\*\*\*DATA0 need TEST POINT



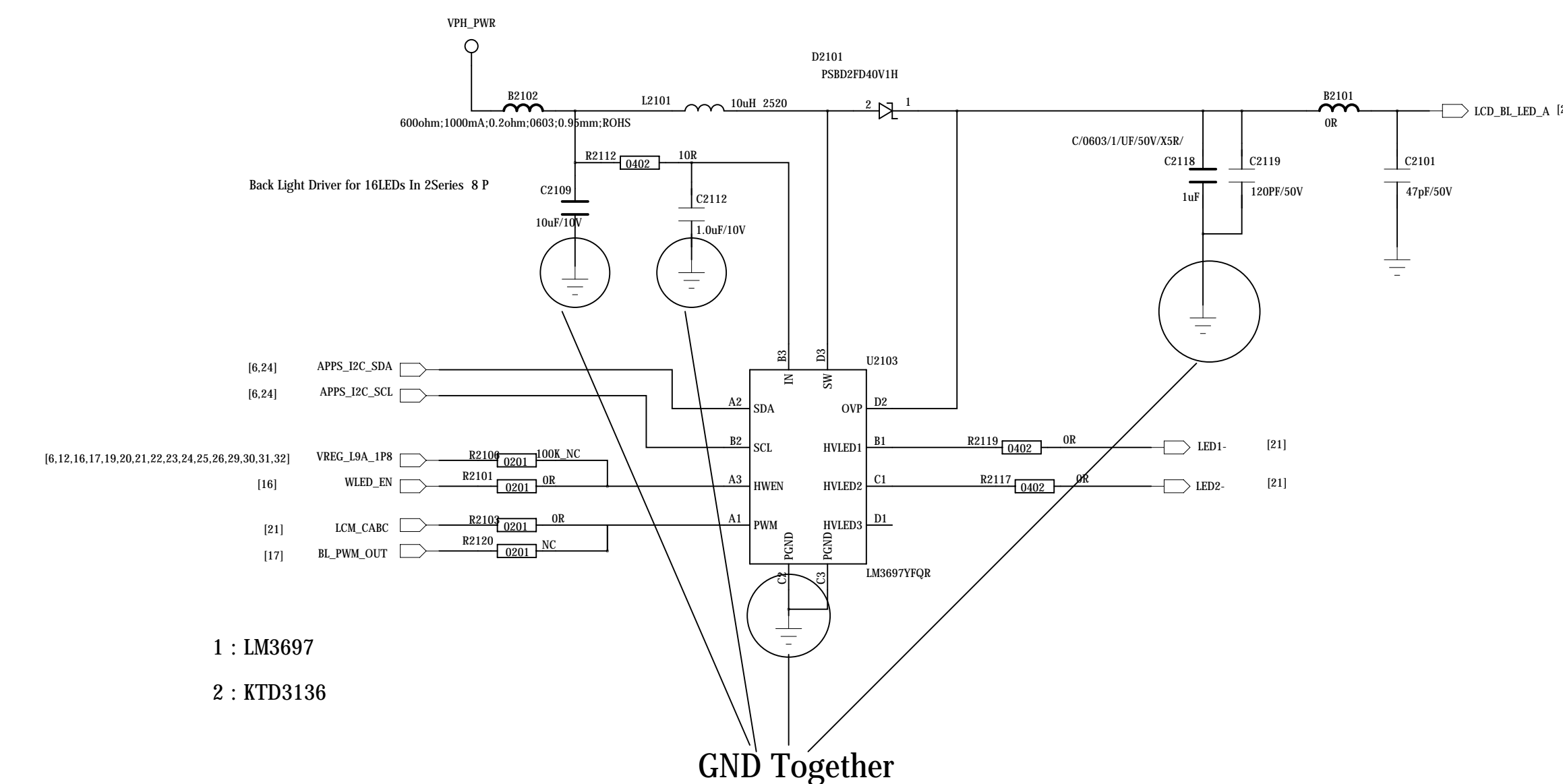




NTC for BL LED thermal detect



# LCM Black Light



1 : LM369

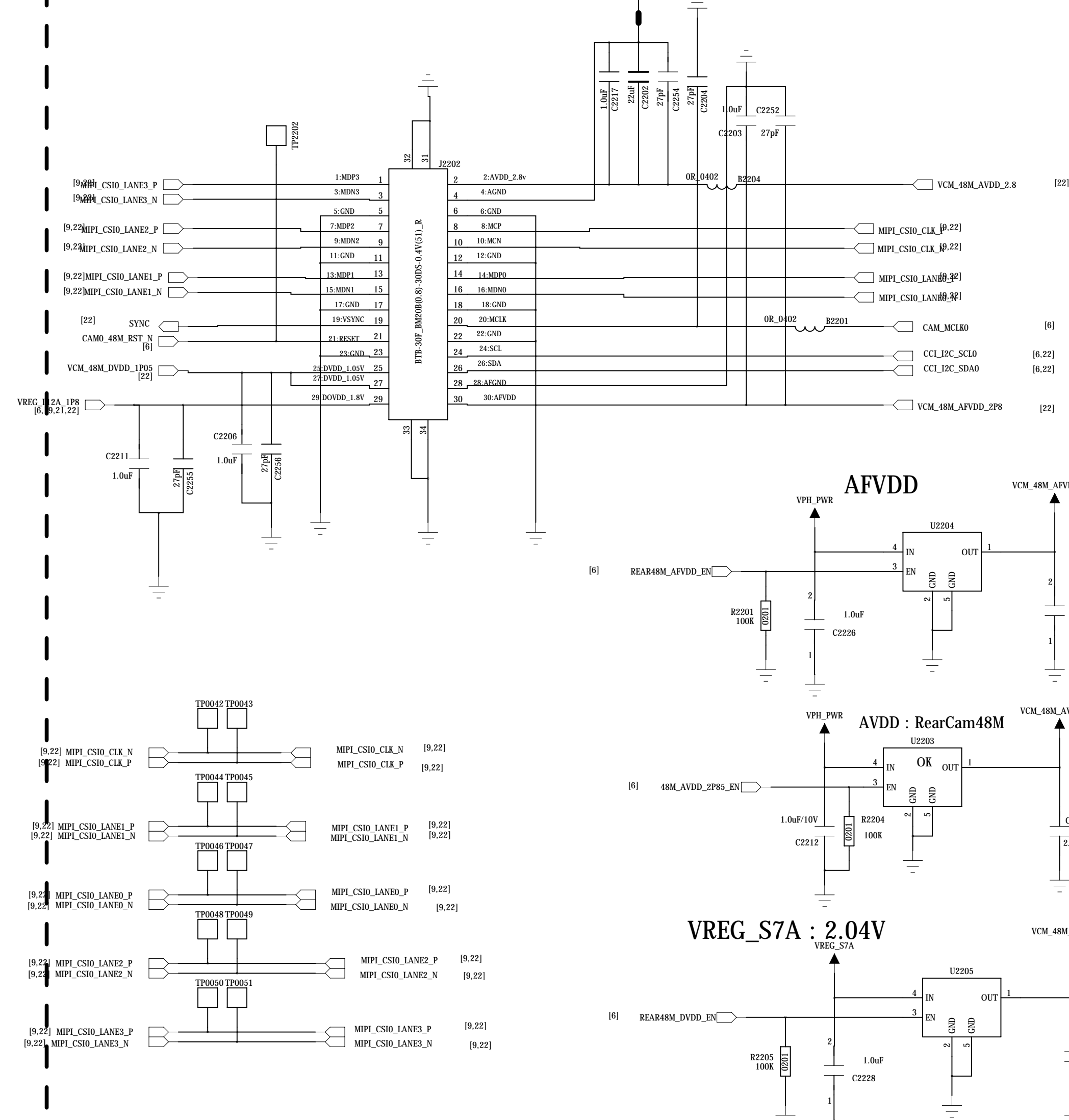
2 : KTD3136

GND Together

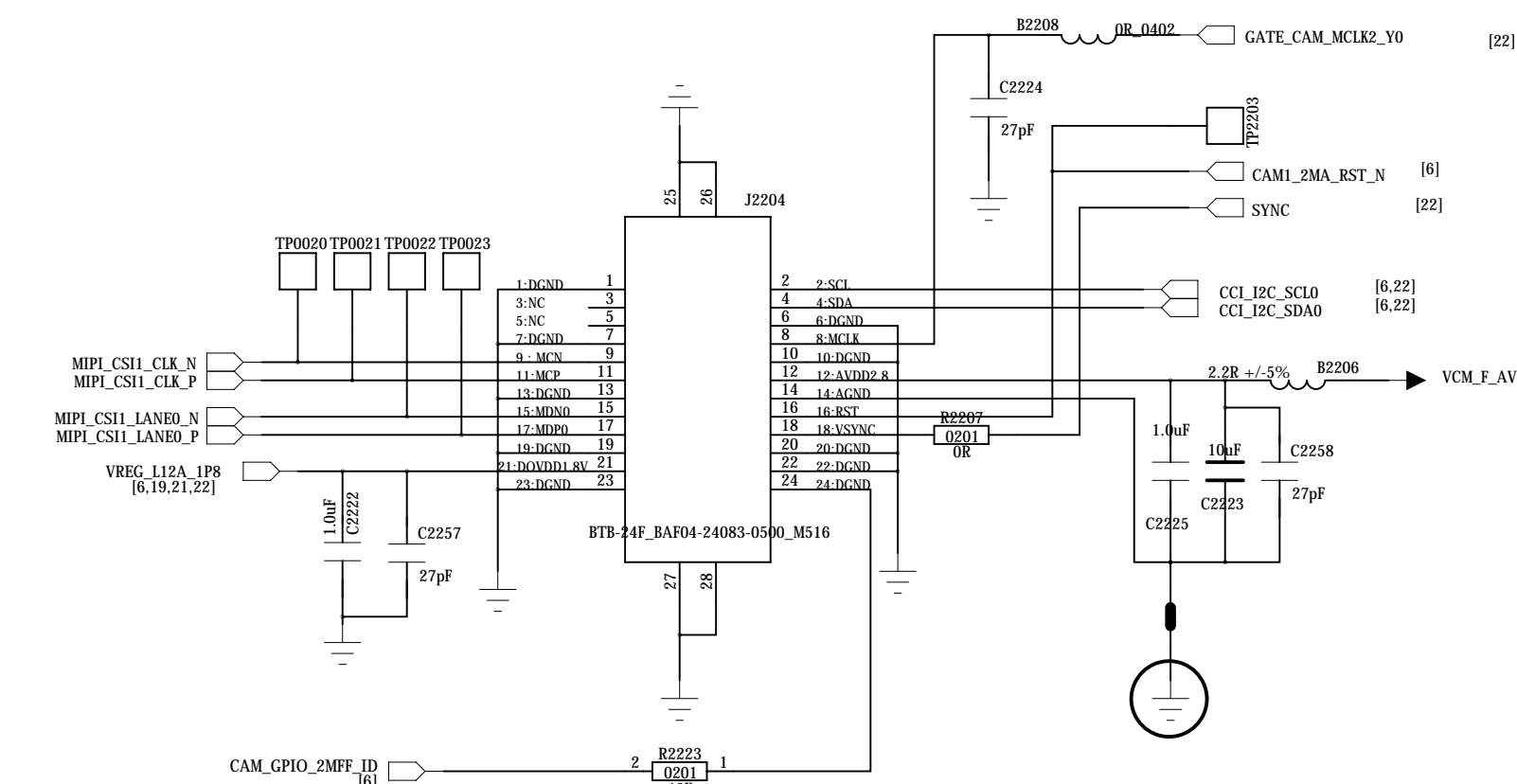


REVISION RECORD			
LTB	RCV NO	APPROVED	DATE

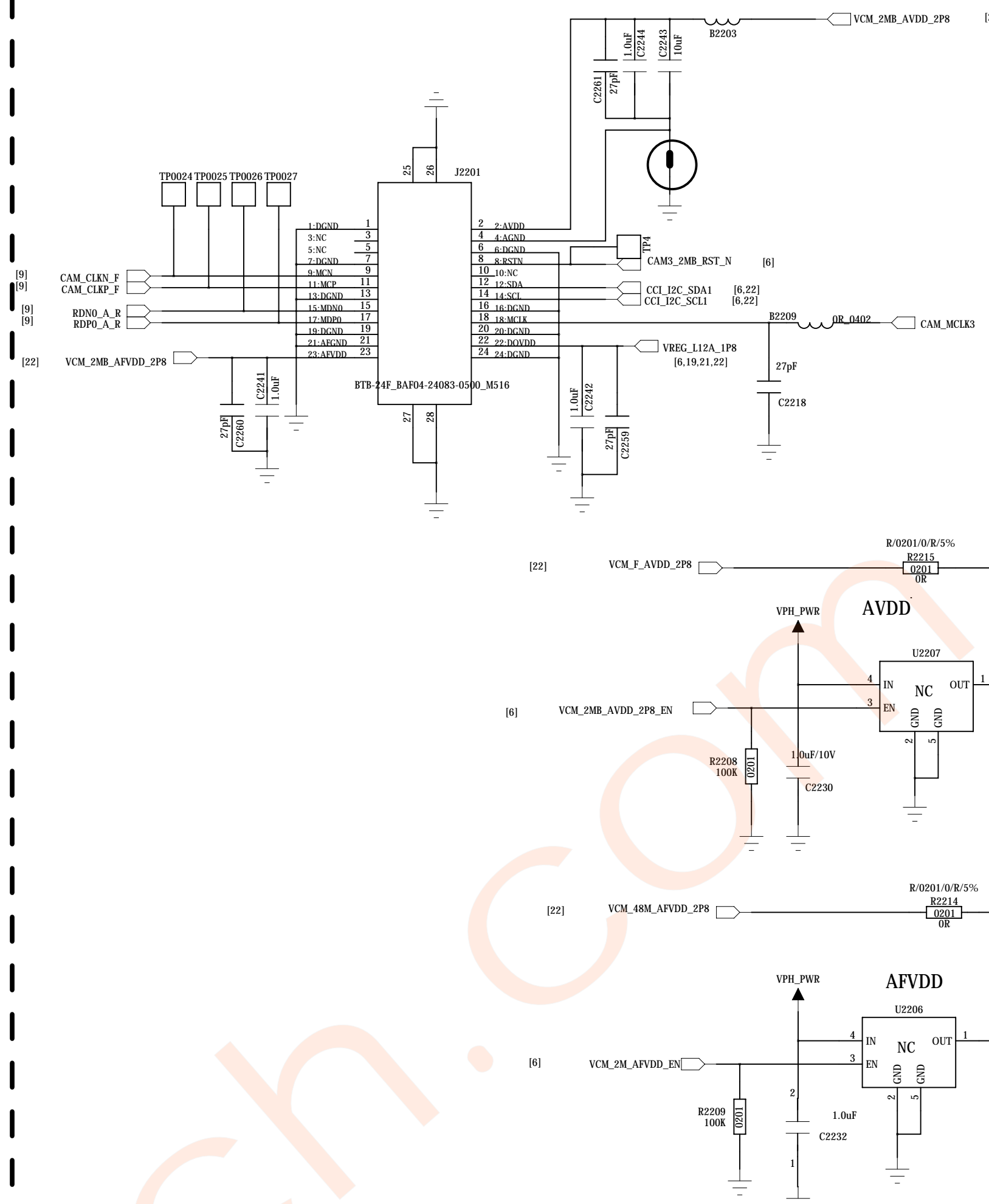
## Main Camera A



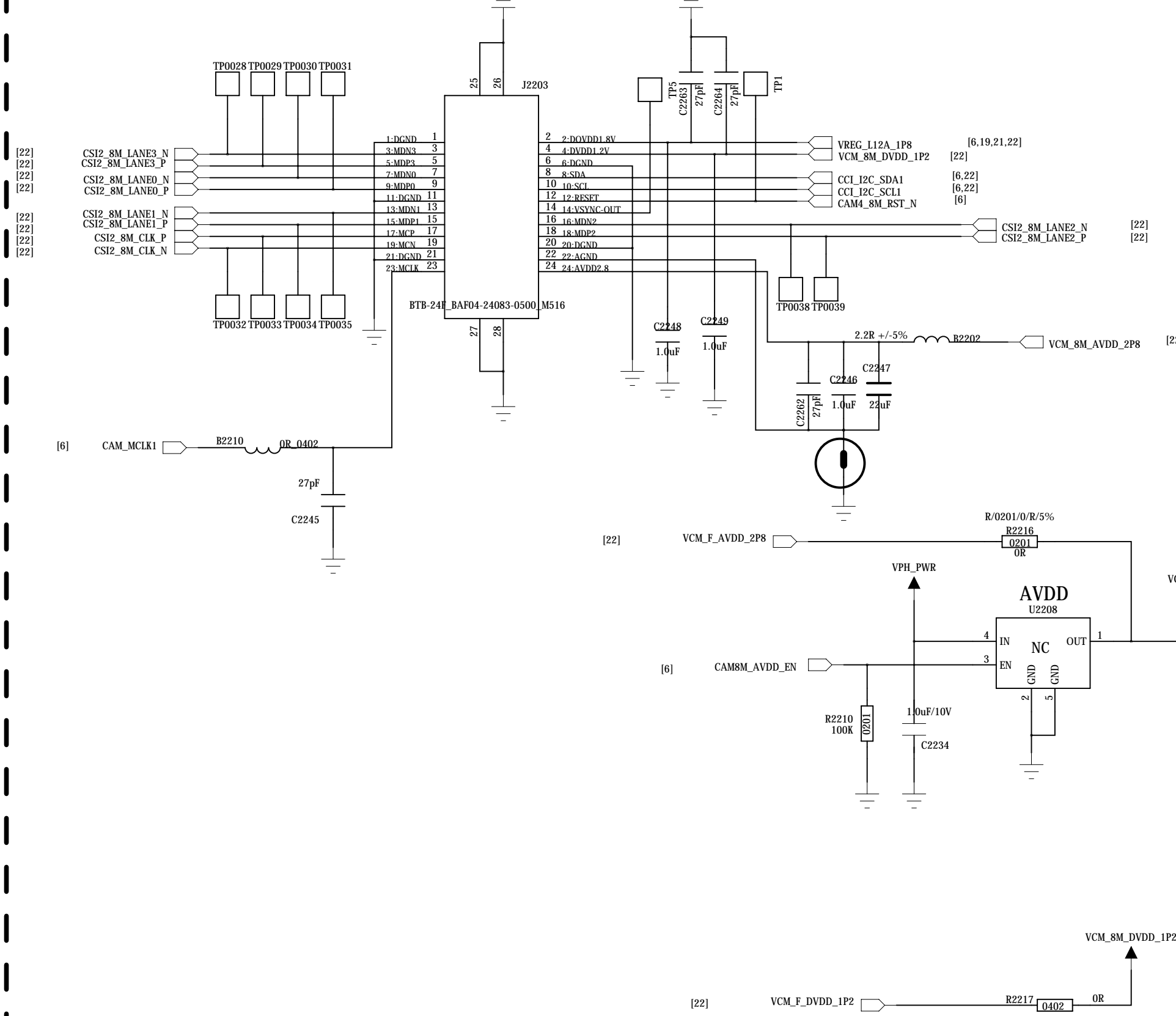
## Main Camera B 2M 2M FF



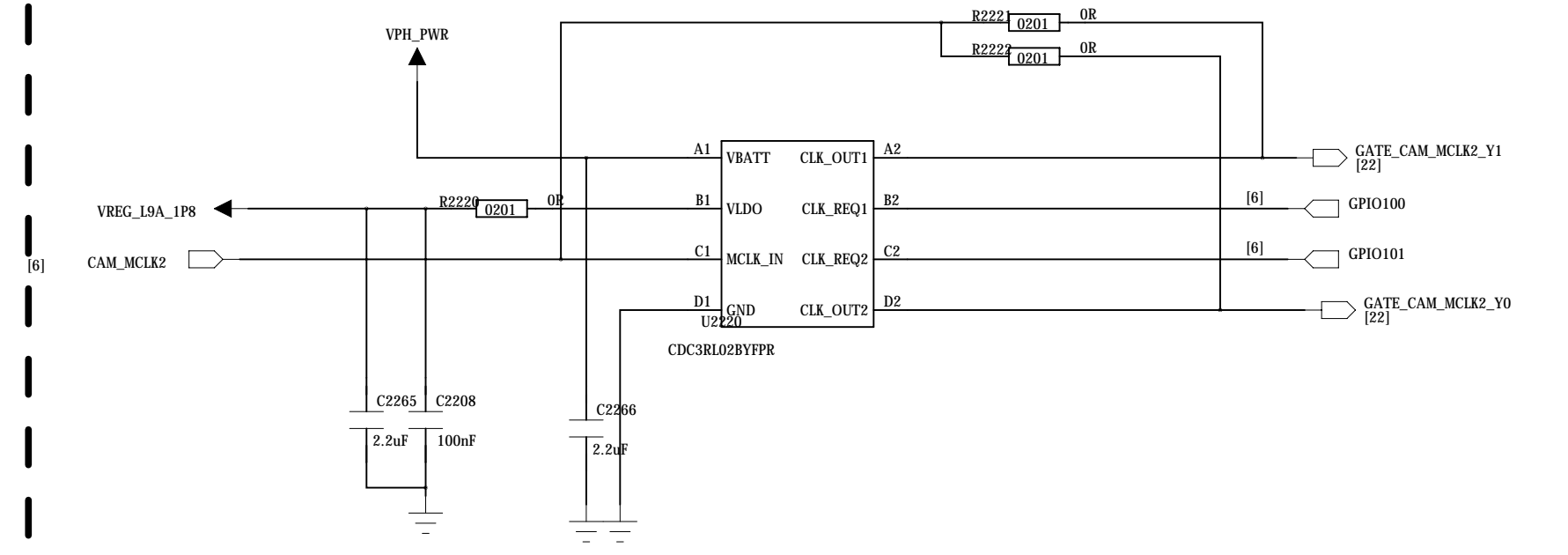
## Main Camera C 2M 2M AF



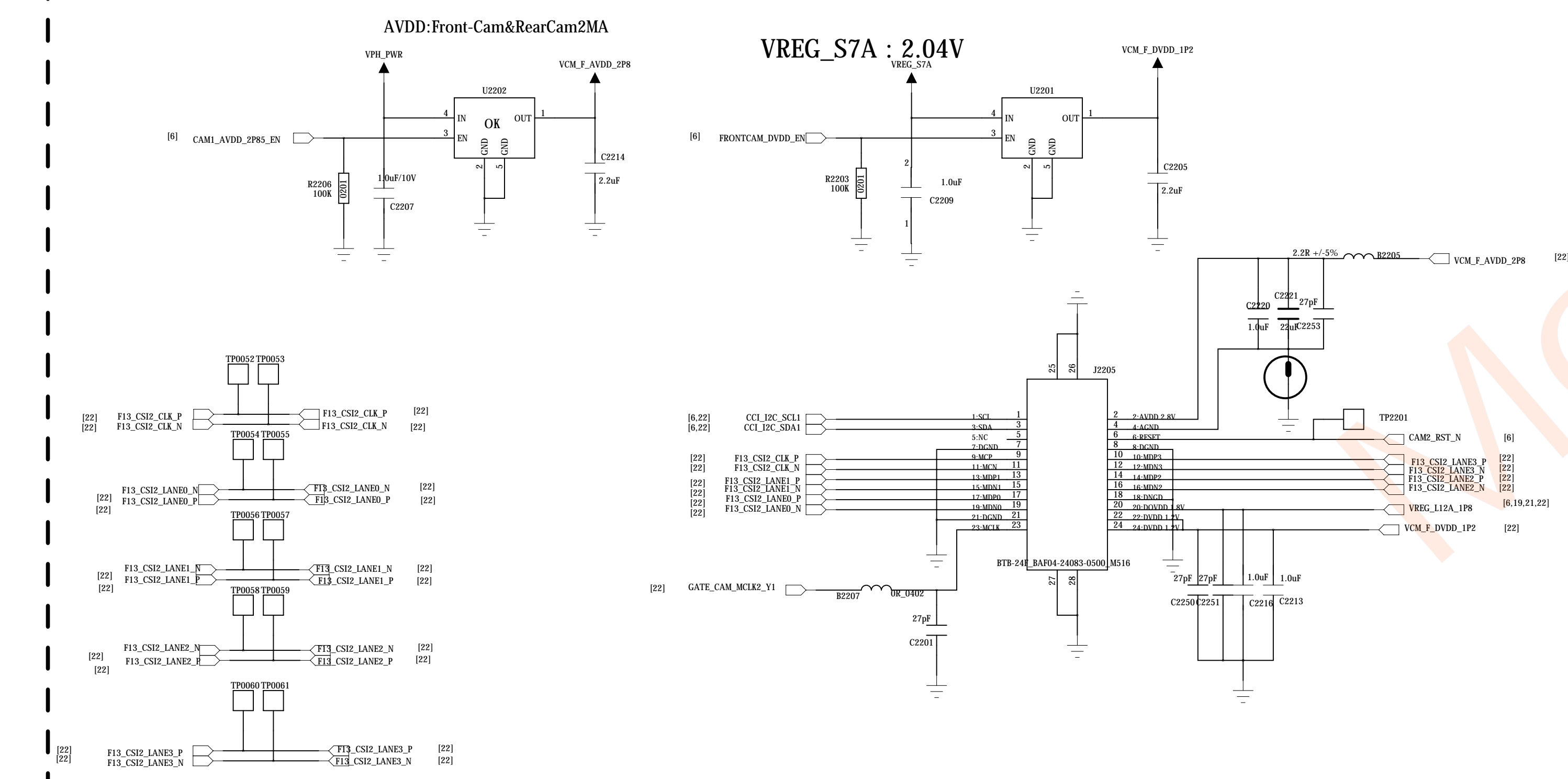
## Main Camera D 8M



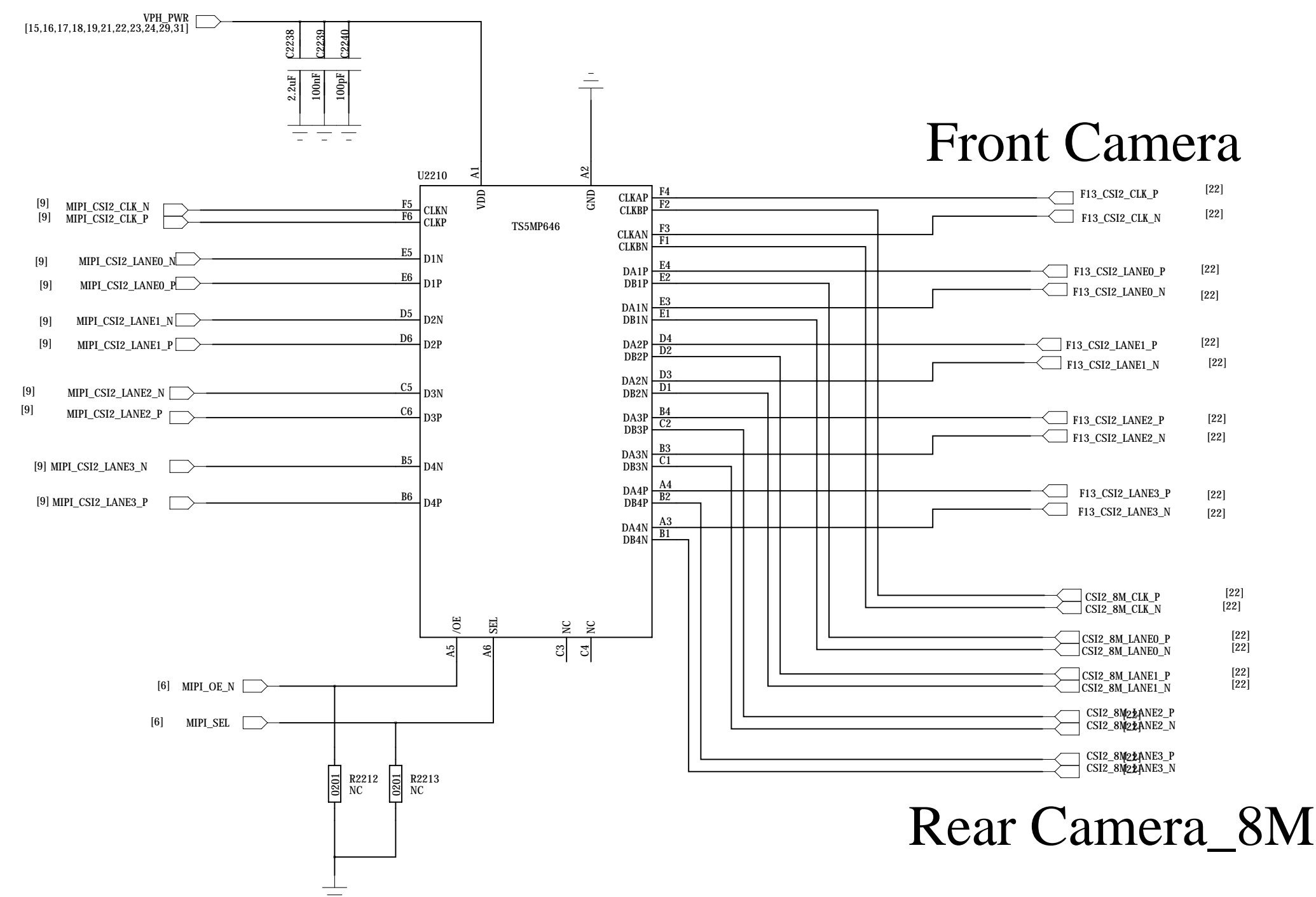
### Front & Rear 2M Camera clk buffer



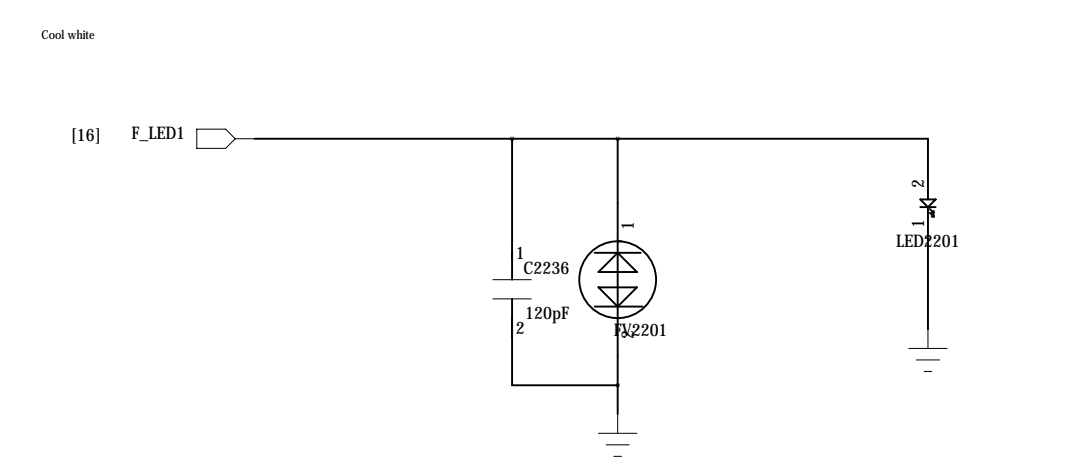
## Front Camera



## MIPI SW



## Main FLASHLIGHT



Schematic design notice of "63\_PERI\_CAMERA\_KEYPAD" page.

Note 62-1: The VCC of I2C\_0 is pulled to "VCAM\_IO\_PMU".

Note 62-2: I2C control interface of front camera (with AF) must be assigned to I2C-2 bus when PIP/IVT feature be supported.

Note 62-3: Reserve a capacitor (27pF) on camera's MCLK and shunt it to GND to prevent GPS de-sense.

I2C ADDRESS 2M 0X7A(w/o) 0x7B(read)

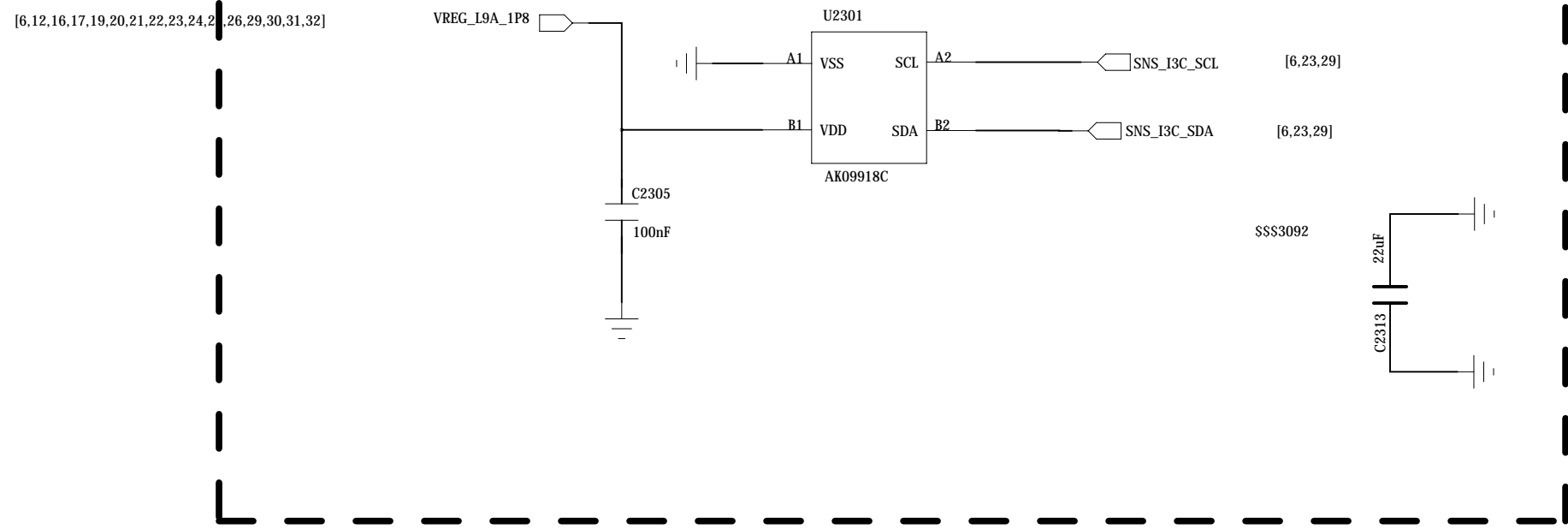
COMPANY: <Company Name>		TITLE: <Title>	
DRAWN: <Drawn By>	DATE: <Drawn Date>	COD: <Code>	SIZE: A0 <Drawing Number> Revision>
CHECKED: <Checked By>	DATE: <Checked Date>	SCALE: <Scale>	SHEET: 34
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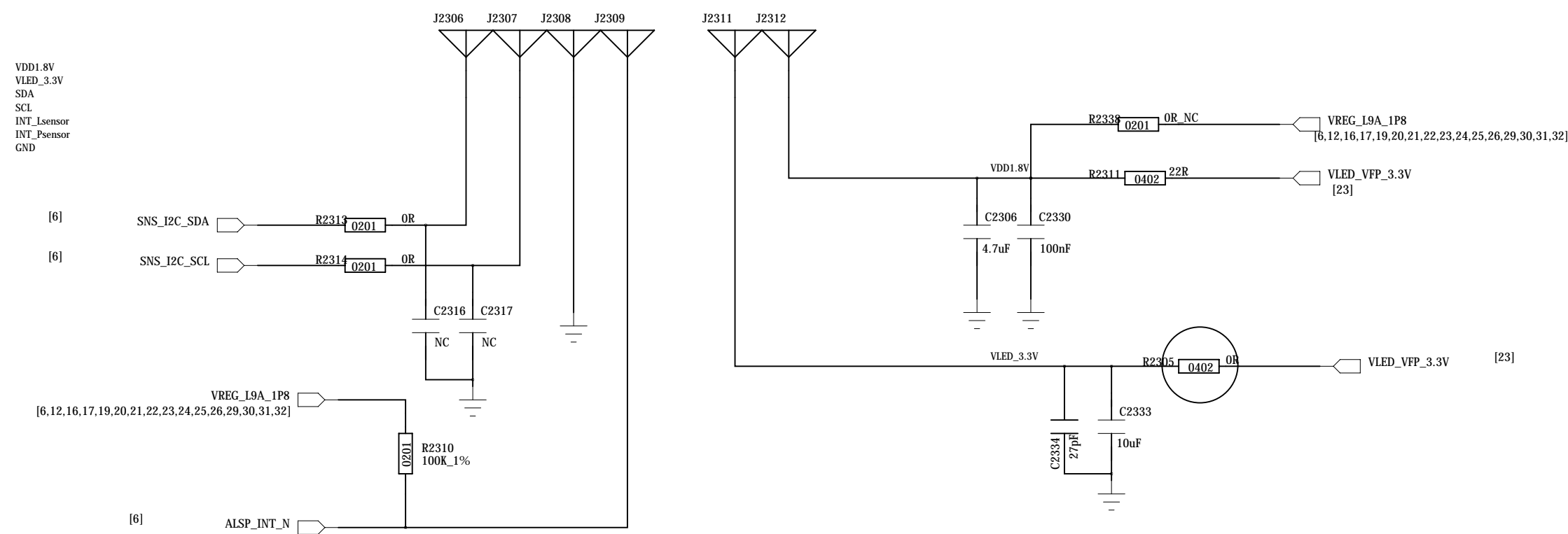
REVISION RECORD			
LTR	REV NO	APPROVED	DATE

## M-Sensor

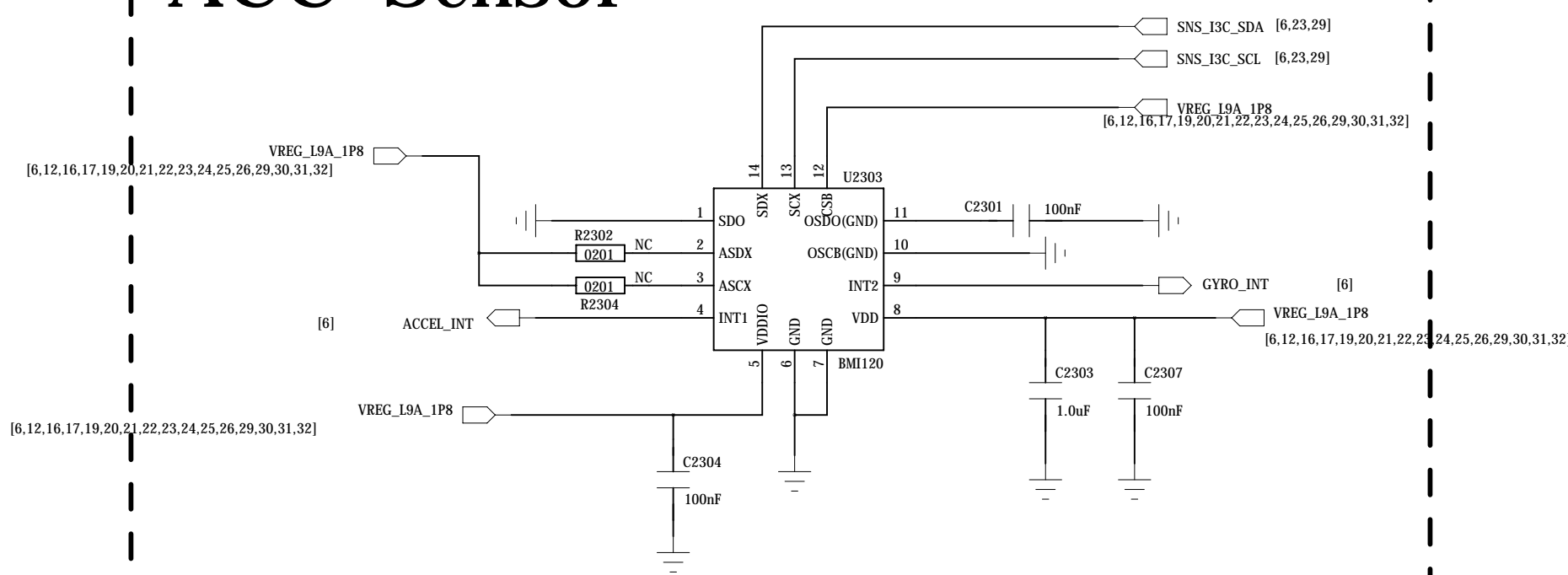
M-Sensor I2C Address: 0x0C



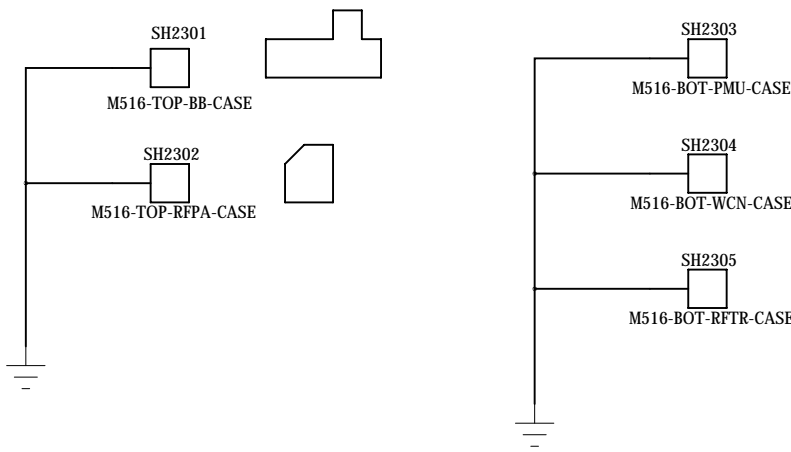
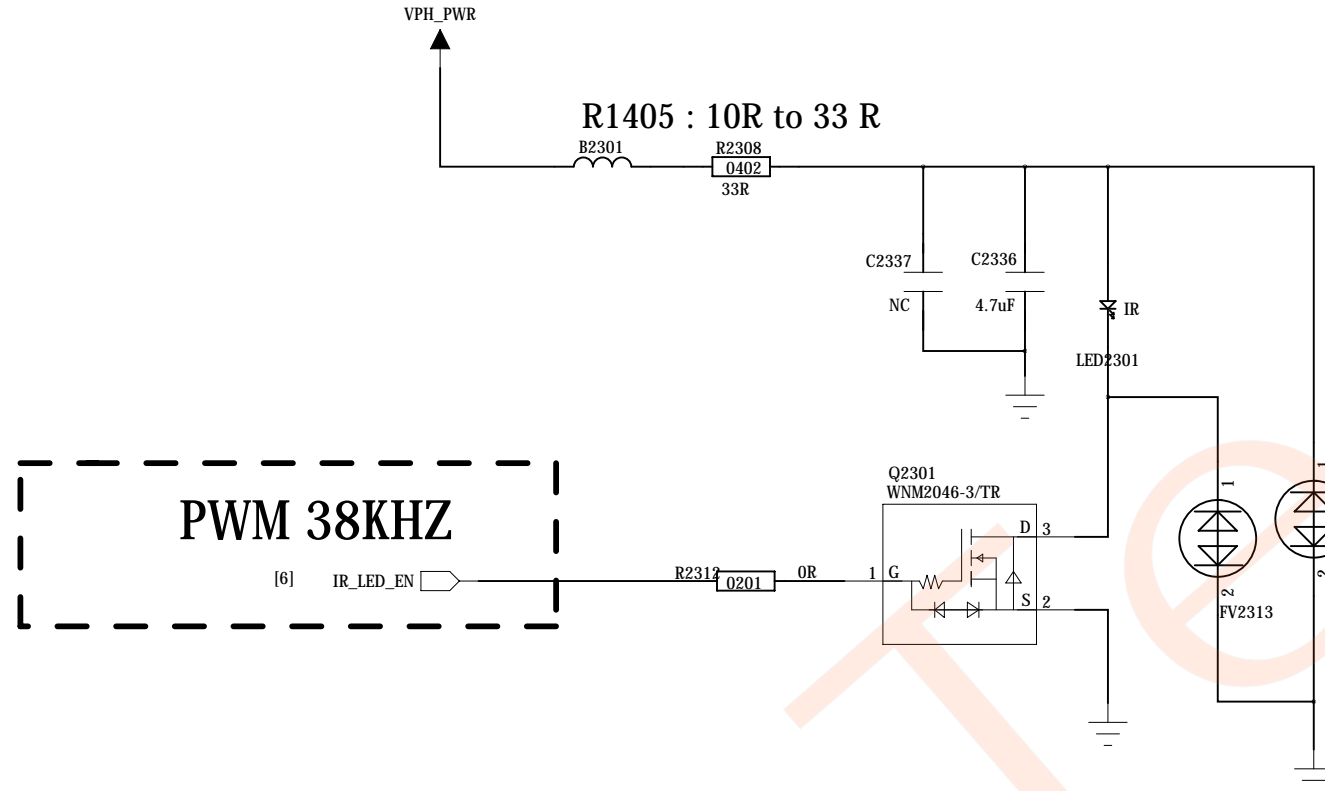
## PL\_SENSOR



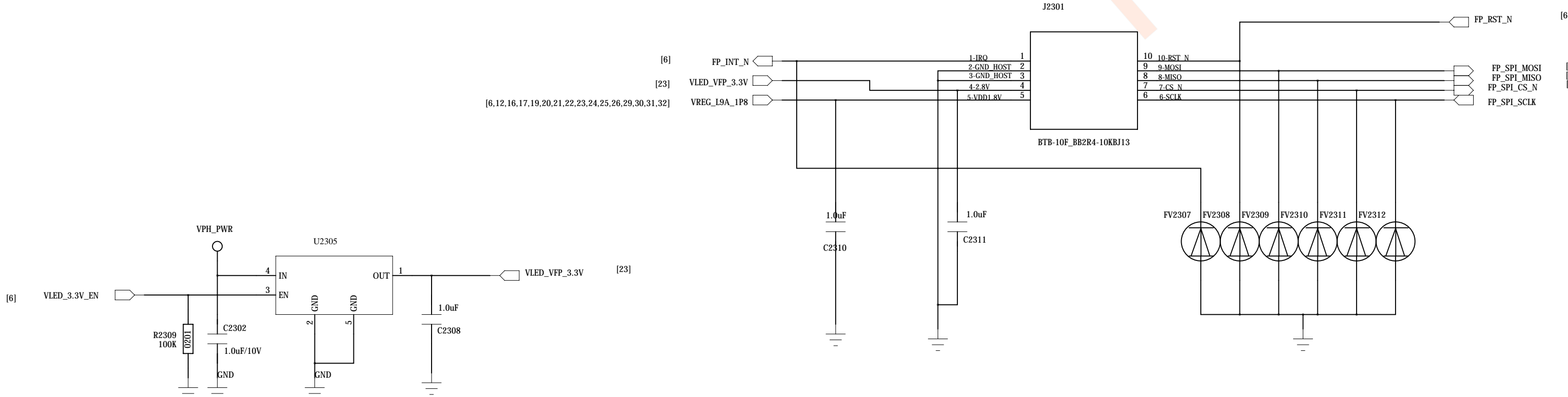
### ACC-Sensor



### IR



## FingerPrint-Sensor



LDO 3.3V or 3.0V for FP & VLEDA

Default: I3C for Mag sensor + ACCEL/GYRO, I2C for the PL Sensor

BAD MARK POINT

MARK POINT

COMPANY:				<Company Name>			
TITLE:				<Title>			
DRAWN:	<Drawn By>	DATE:	<Drawn Date>	COD:	SIZE:	DRAWING NO:	REV:
CHECKED:	<Checked By>	DATE:	<Checked Date>				
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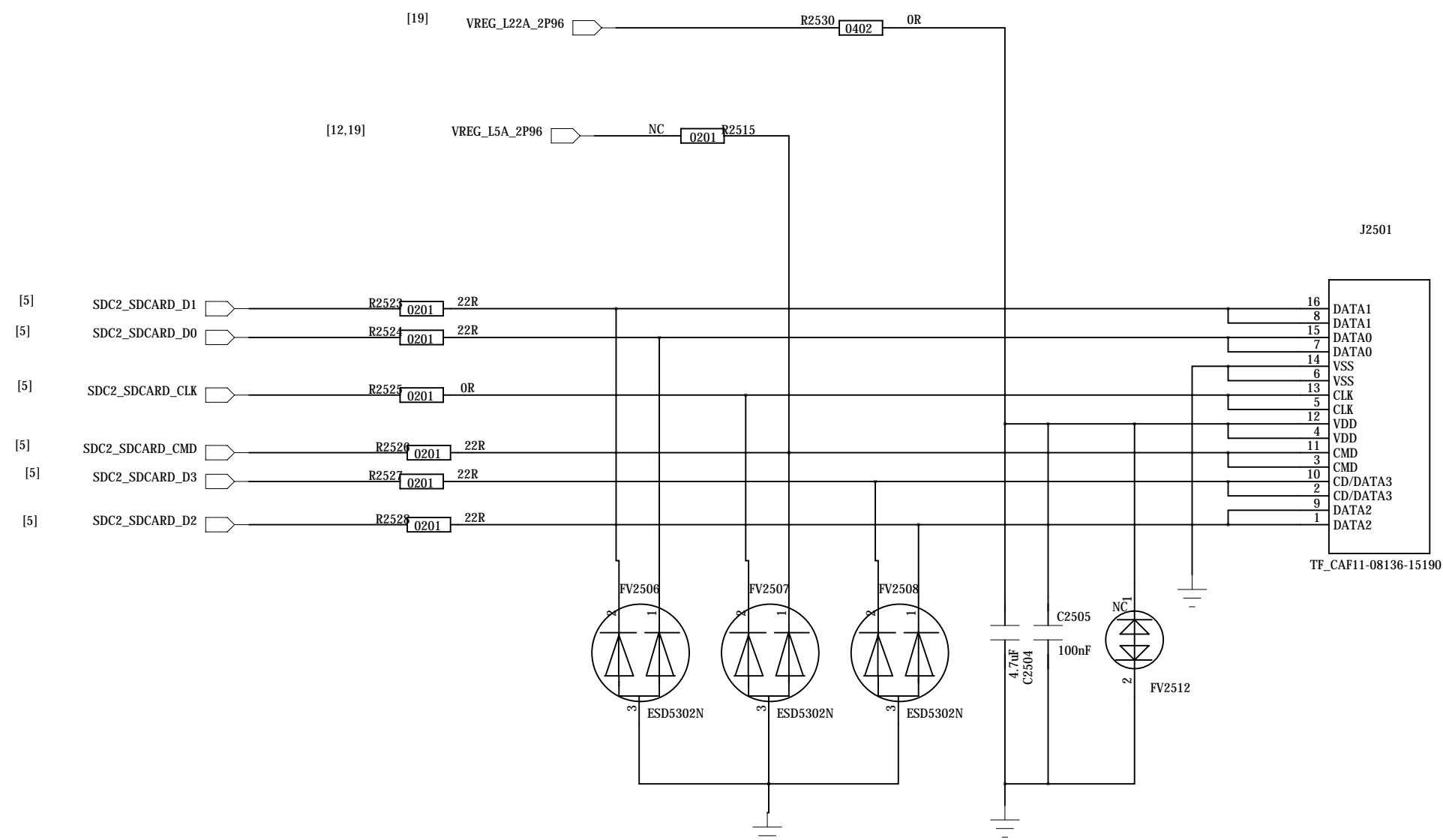




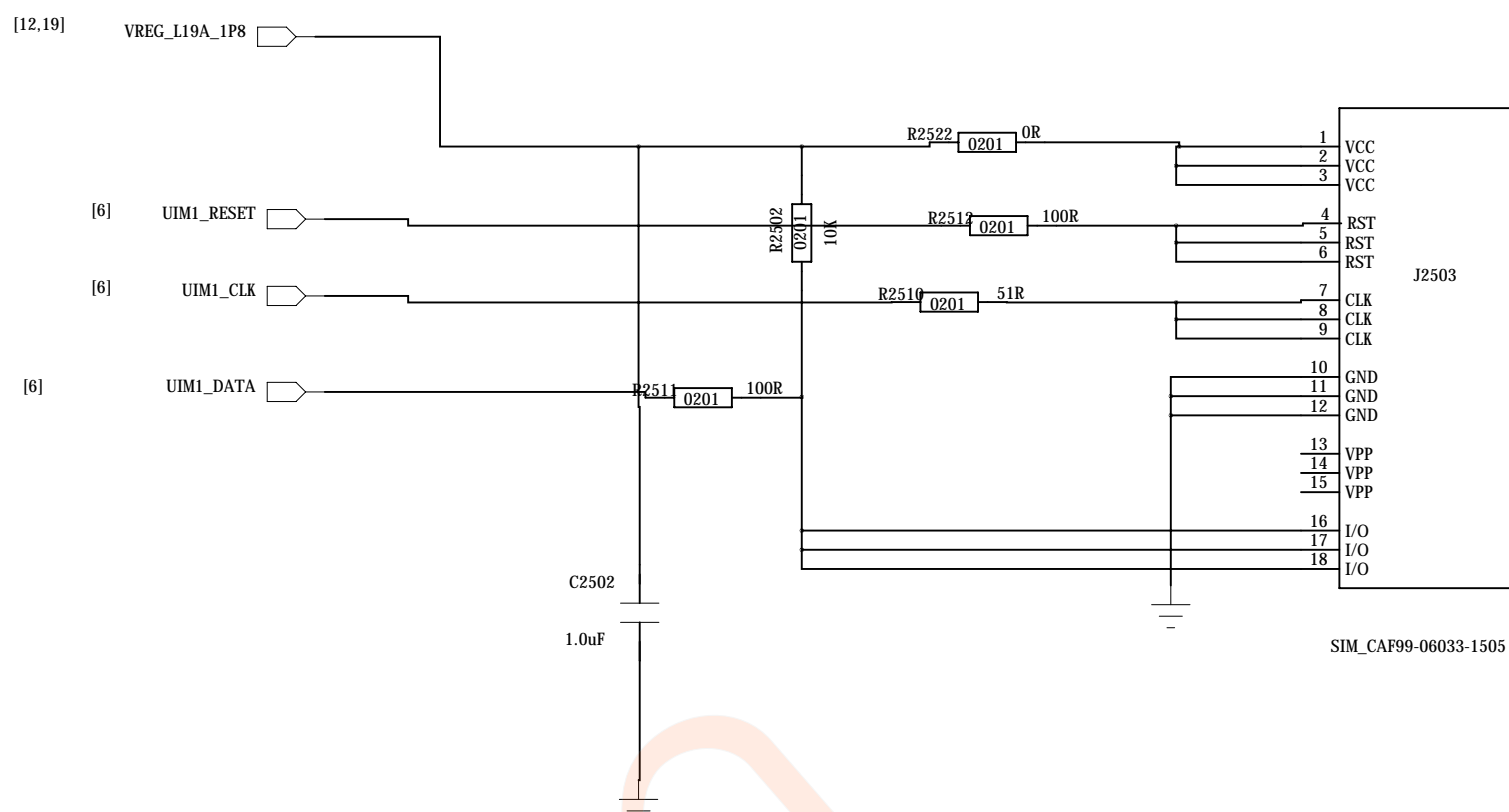


REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE

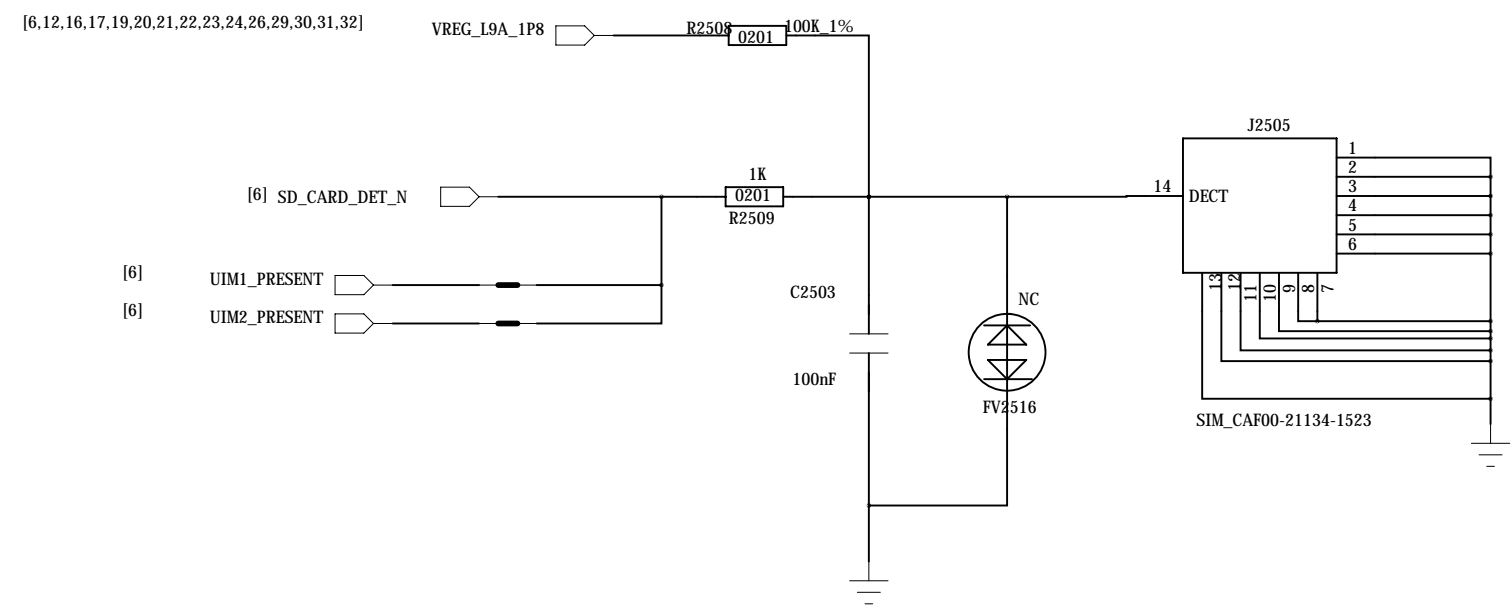
# T- Card



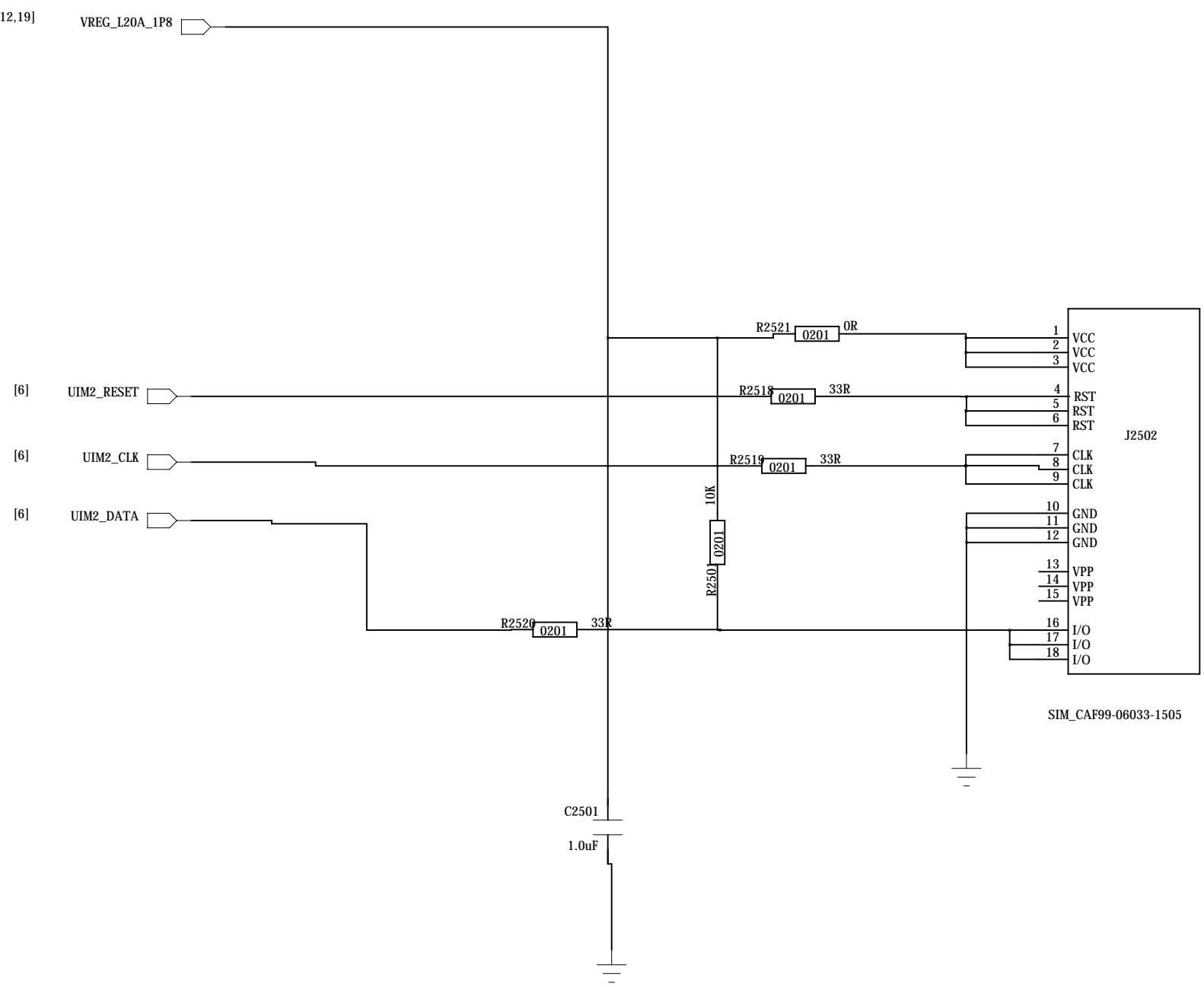
# SIM1



# INT

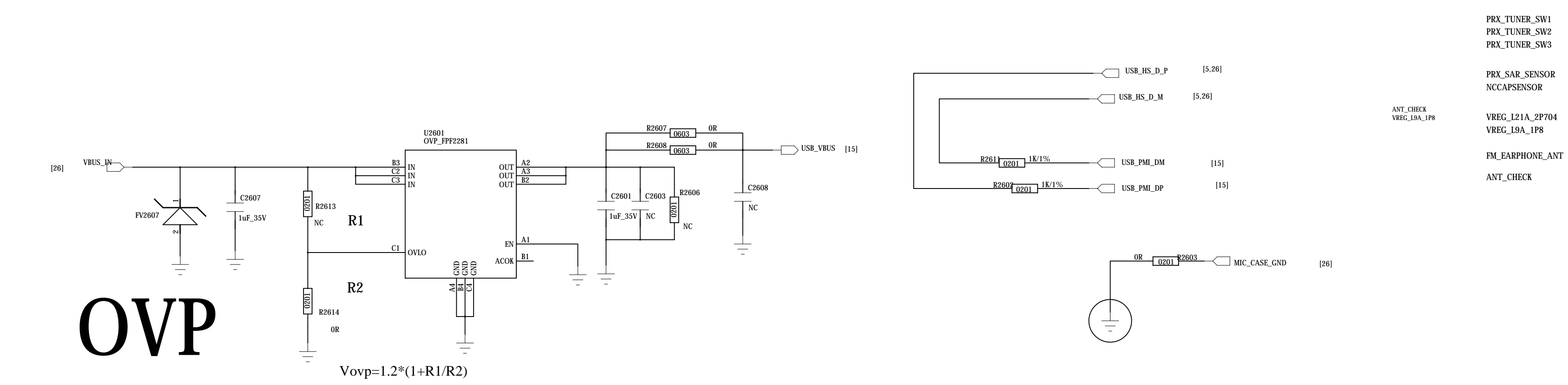
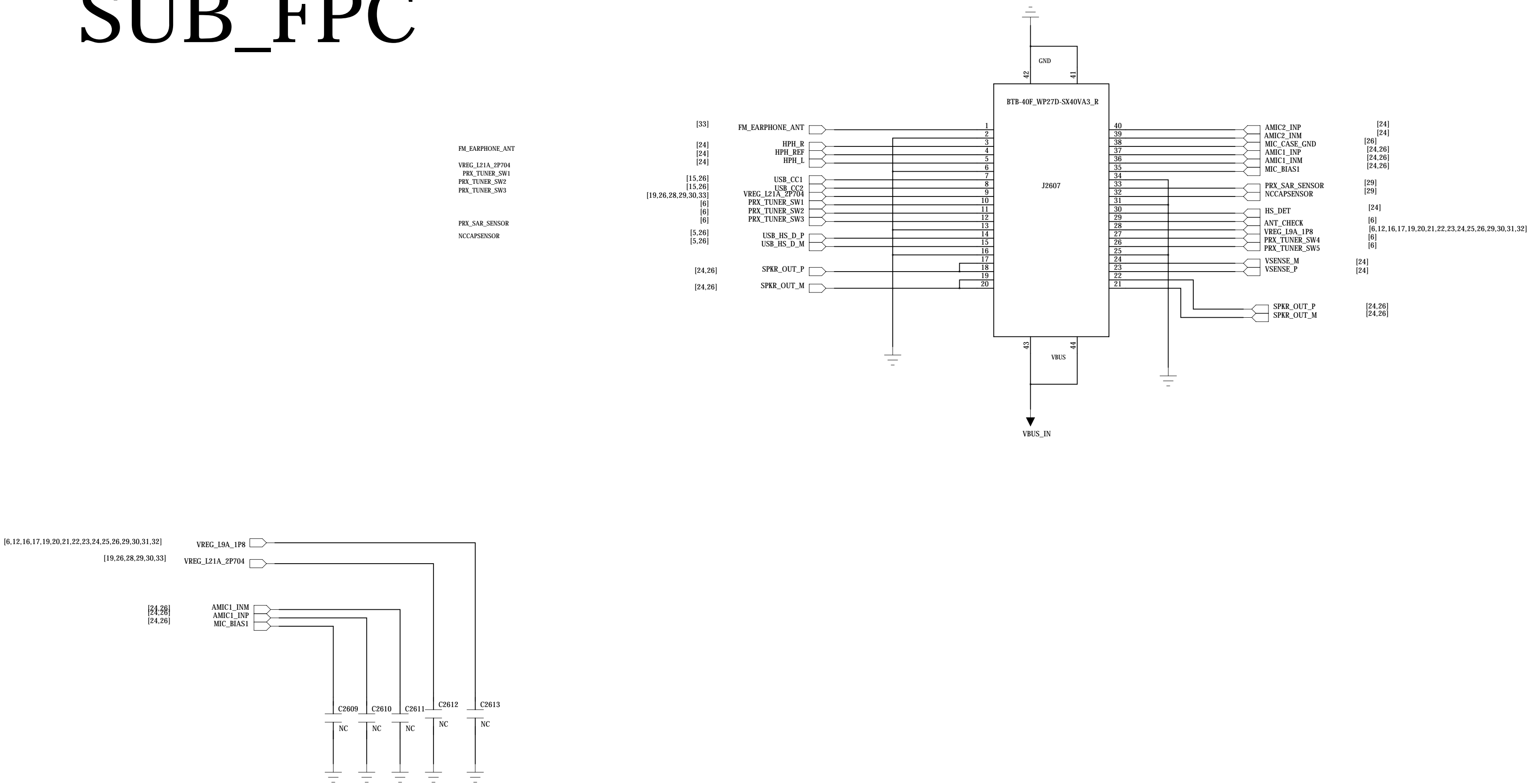


# SIM2



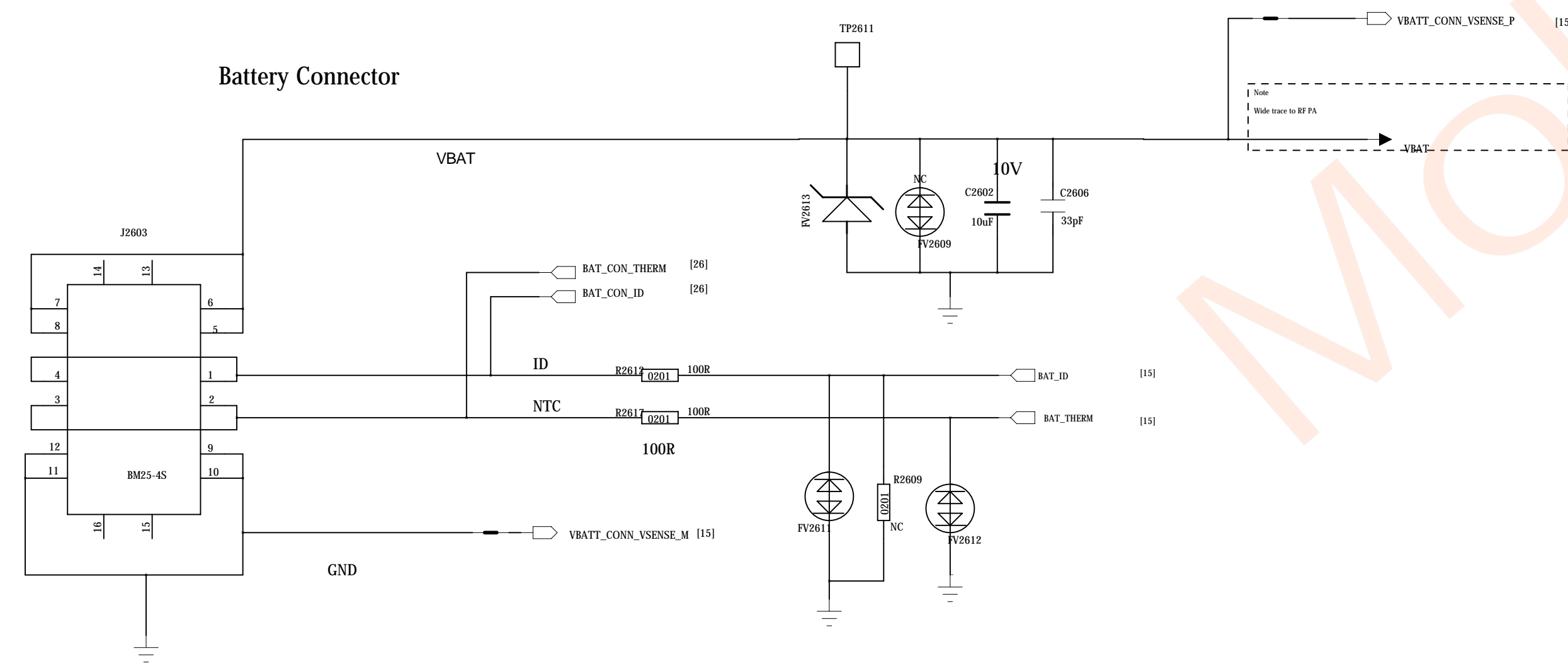


SUB\_FPC

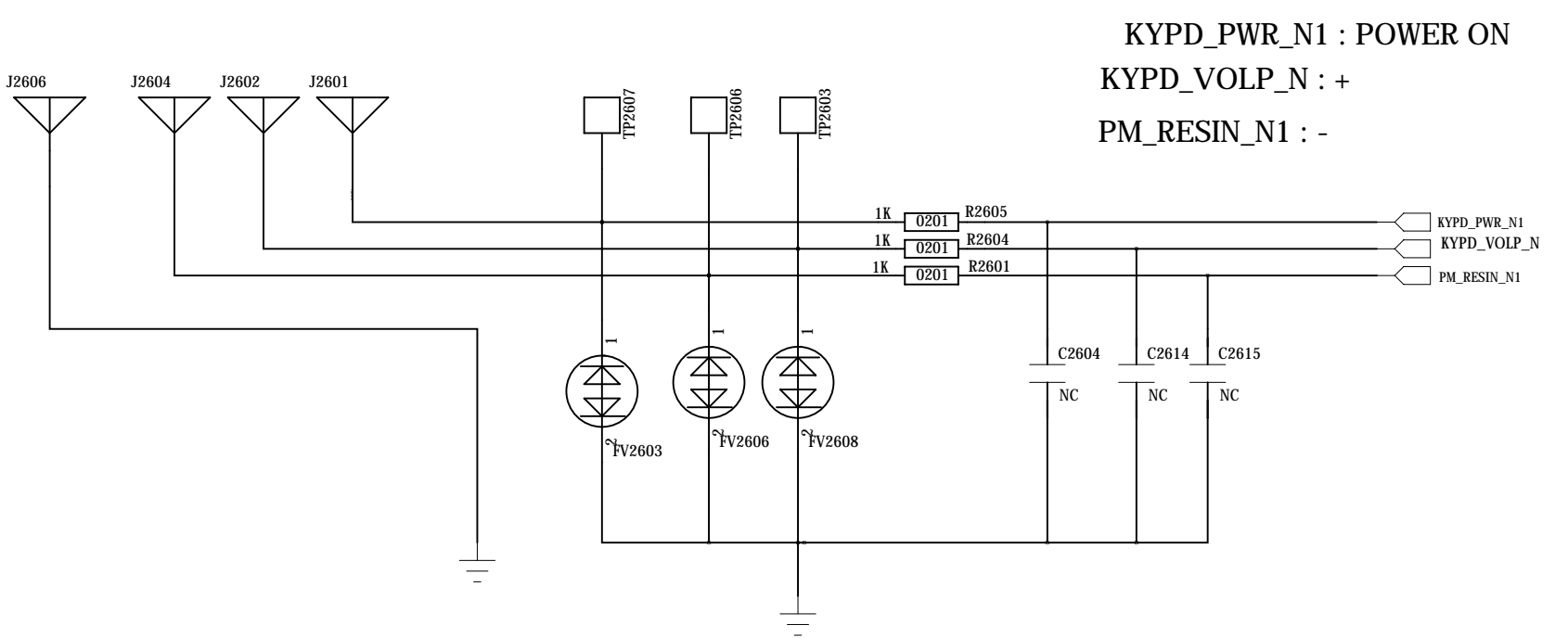


OVP

BAT



Power Key

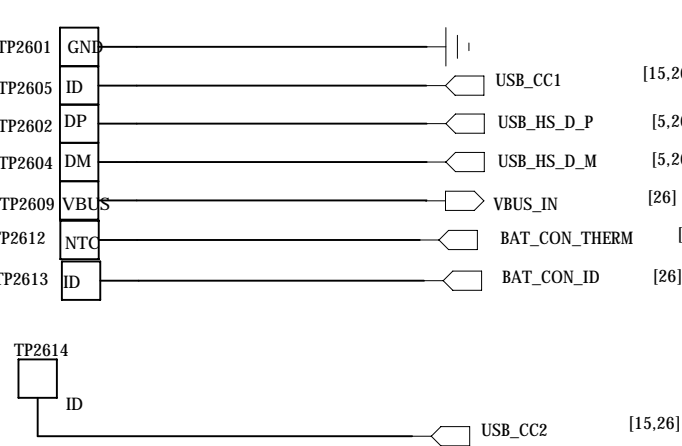


Schematic design notice of "65\_PERI\_Dual\_SIM\_ICUSB\_KEYPAD" page.

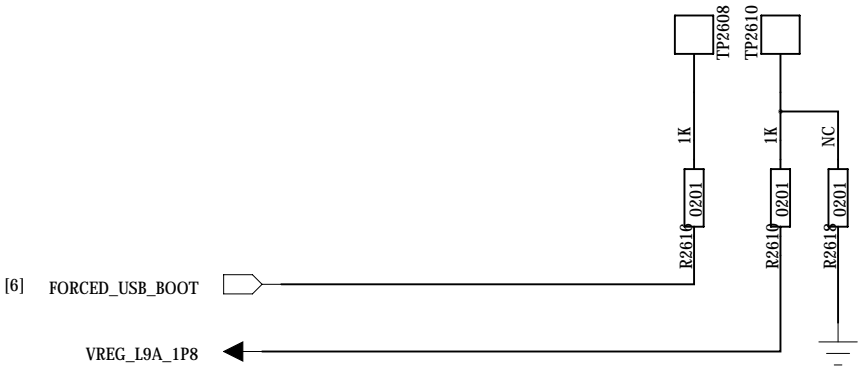
Note 65-1: DO NOT put pull-up resistor on PWRKEY

Note 65-2: Volume Up : HOME Key / GND  
Volume Down : (KPCOLO/KPCOLO) or KPCOLO / GND

Test point

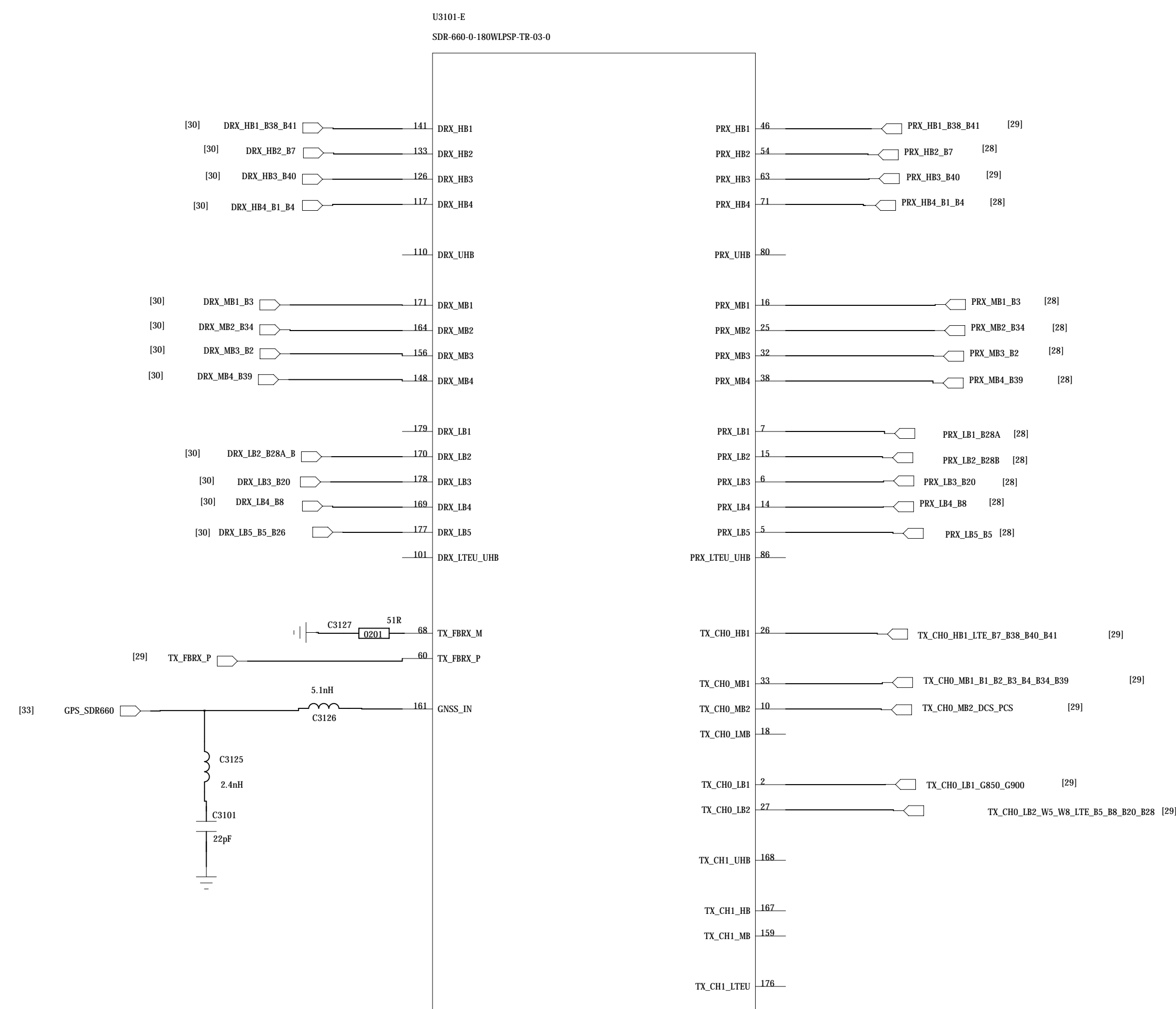


Force USB boot





REVISION RECORD			
ITER	ECO NO.	APPROVED	DATE



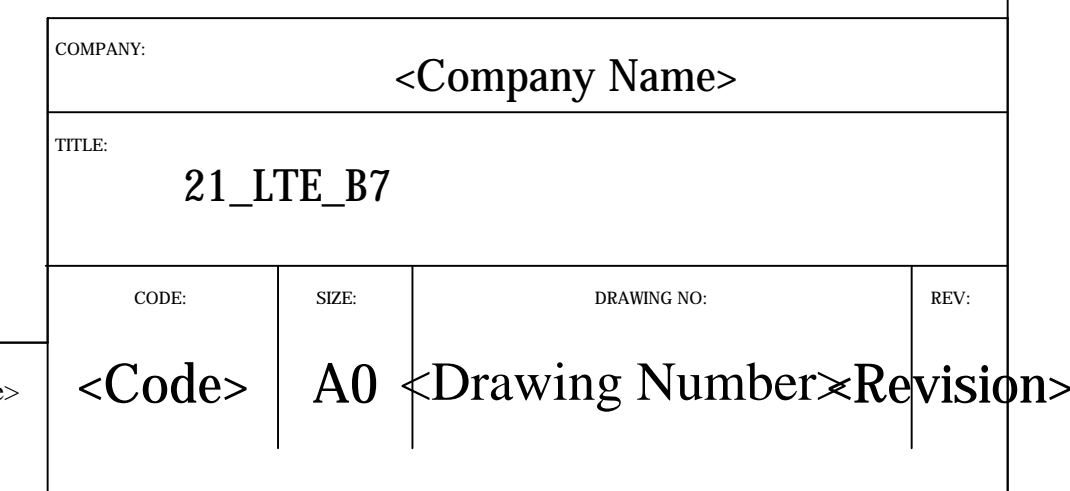


















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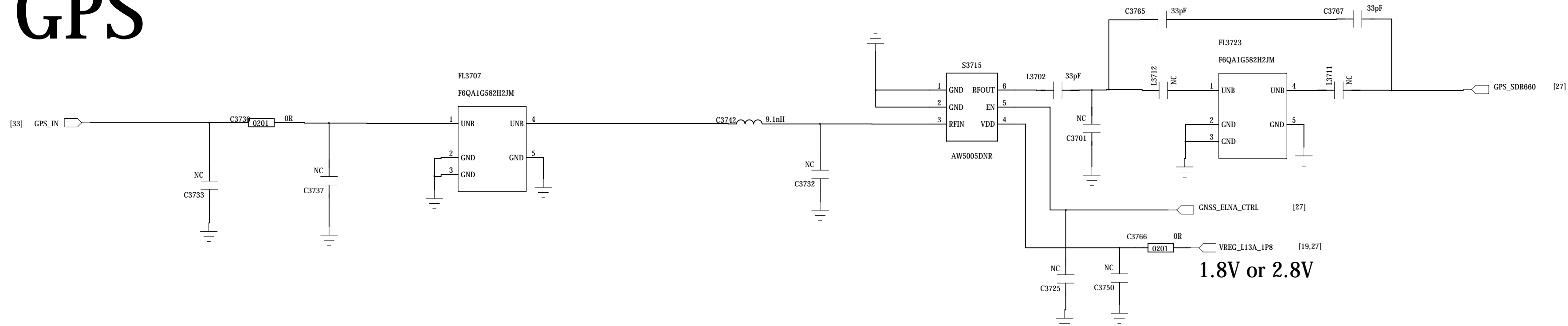
A



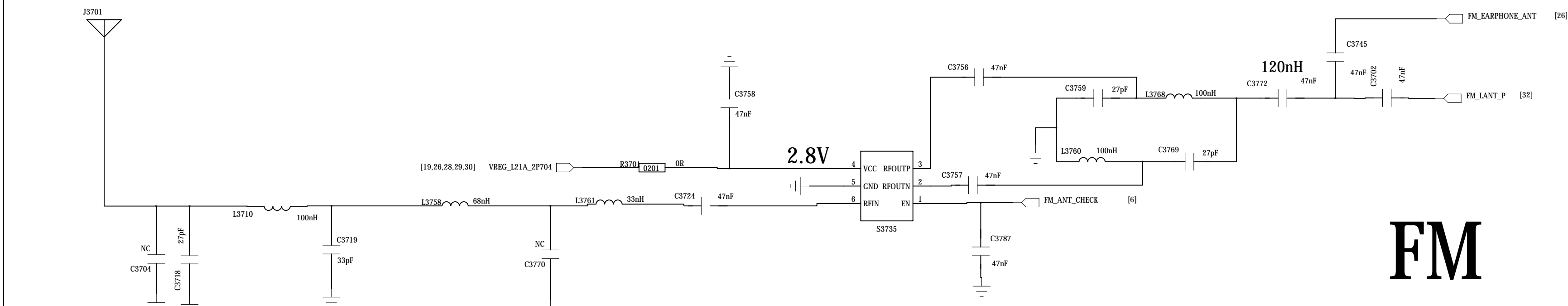
REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE

# GPS

## High rejection saw

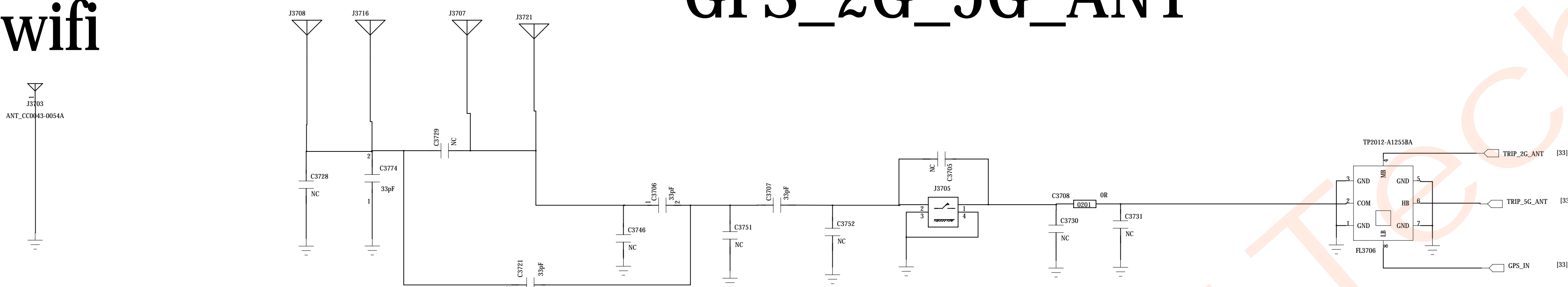


# FM



# For 5G wifi

## GPS\_2G\_5G\_ANT



## 2G\_5G\_WLAN



COMPANY			
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TITLE			
<Title>			
DESIGN	DATE	CODE	SIZE
<Drawn By>	<Drawn Date>		
CHECKED	DATE	CODE	SIZE
<Checked By>	<Checked Date>		
QUALITY CONTROL	DATE	CODE	SIZE
<QC By>	<QC Date>		
RELEASED	DATE	CODE	SIZE
<Released By>	<Release Date>		
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