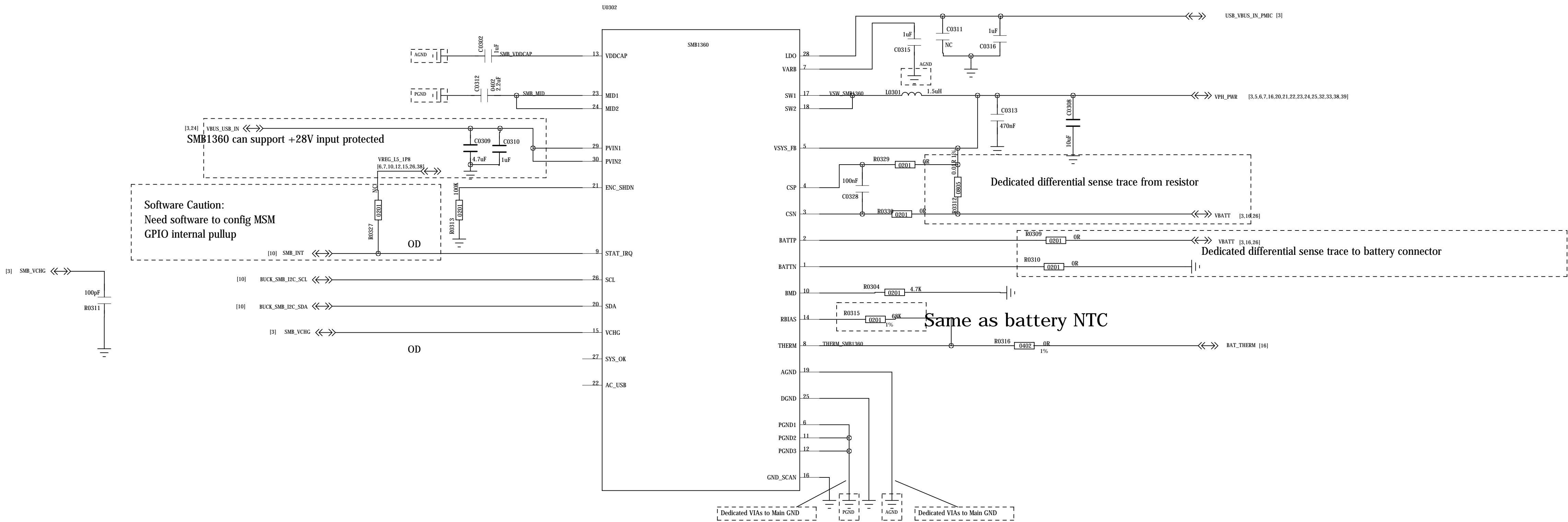
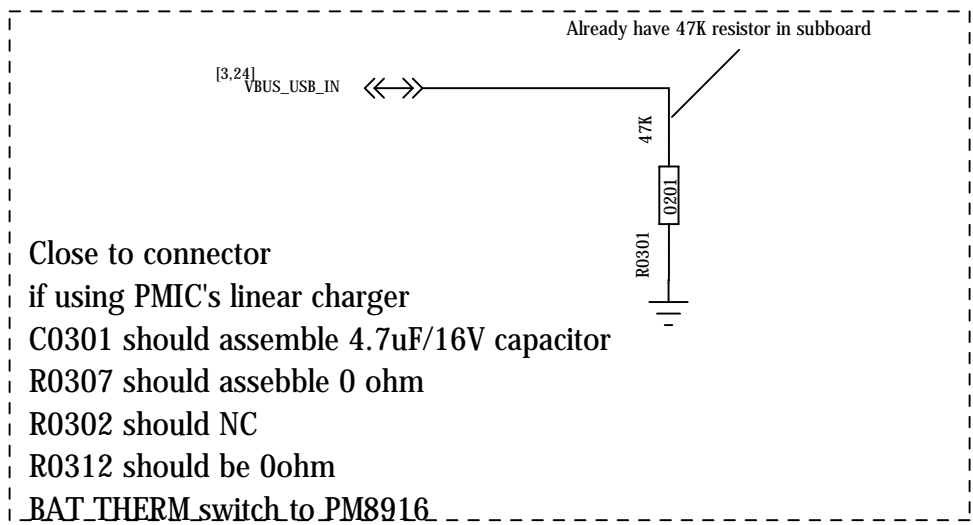
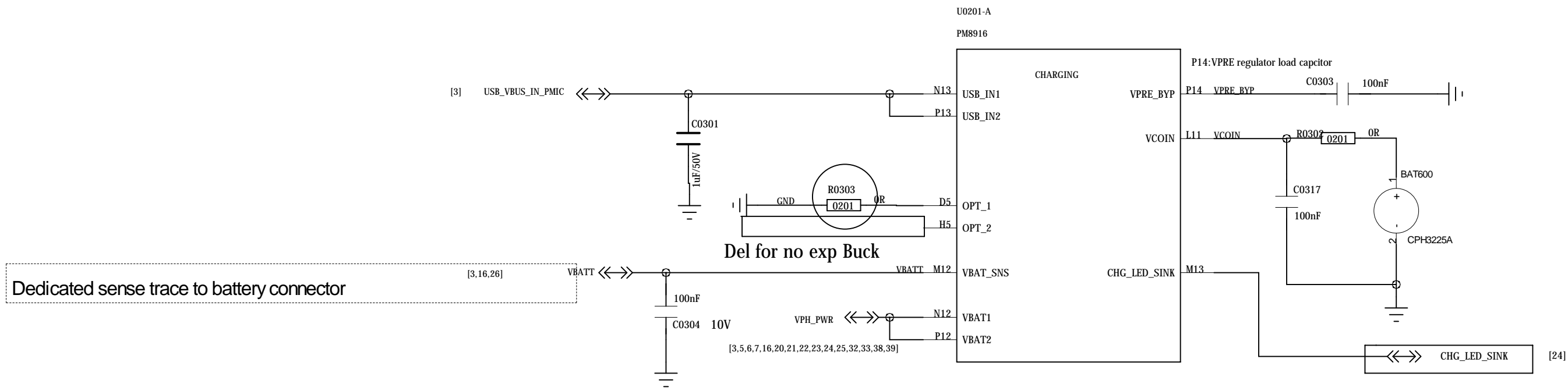


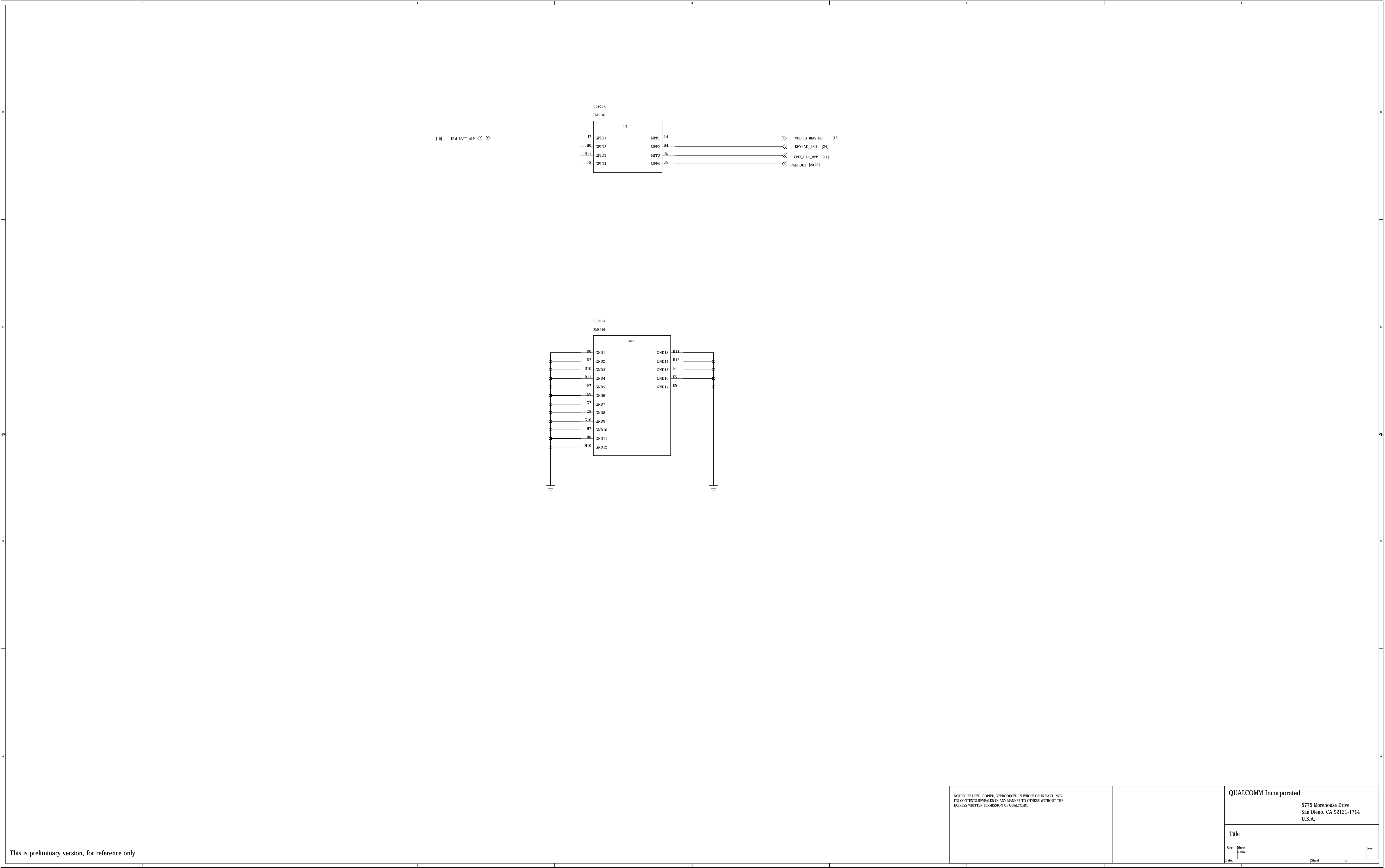
Sheet #		Content			Sheet #		Content		
01.		Table of Content							
02.		PM8916 Control and MPP/Clock							
03.		PM8916 Charging							
04.		PM8916 GPIO/MPP							
05.		PM8916 Buck converter							
06.		PM8916 LDO							
07.		PM8916 Codec							
08.		MSM8916 Control							
09.		MSM8916 EBI							
10.		MSM8916 GPIO							
11.		MSM8916 MIPI and RF Control							
12.		MSM8916 Power1							
13.		MSM8916 Power2							
14.		MSM8916 GND and NC							
15.		MEMORY							
16.		Battery/USB							
17.		Speaker and Vibrator							
18.		MIC and Receiver							
19.		Earphone							
20.		LCD							
21.		Camera							
22.		Sensor							
23.		UIM/TF card							
24.		Keypad/LED							
25.		Touch interface							
26.		Test Points/Shields							
27.		QCA1990 NFC							
28.		Reserved							
29.		Reserved							
30.		Reserved							

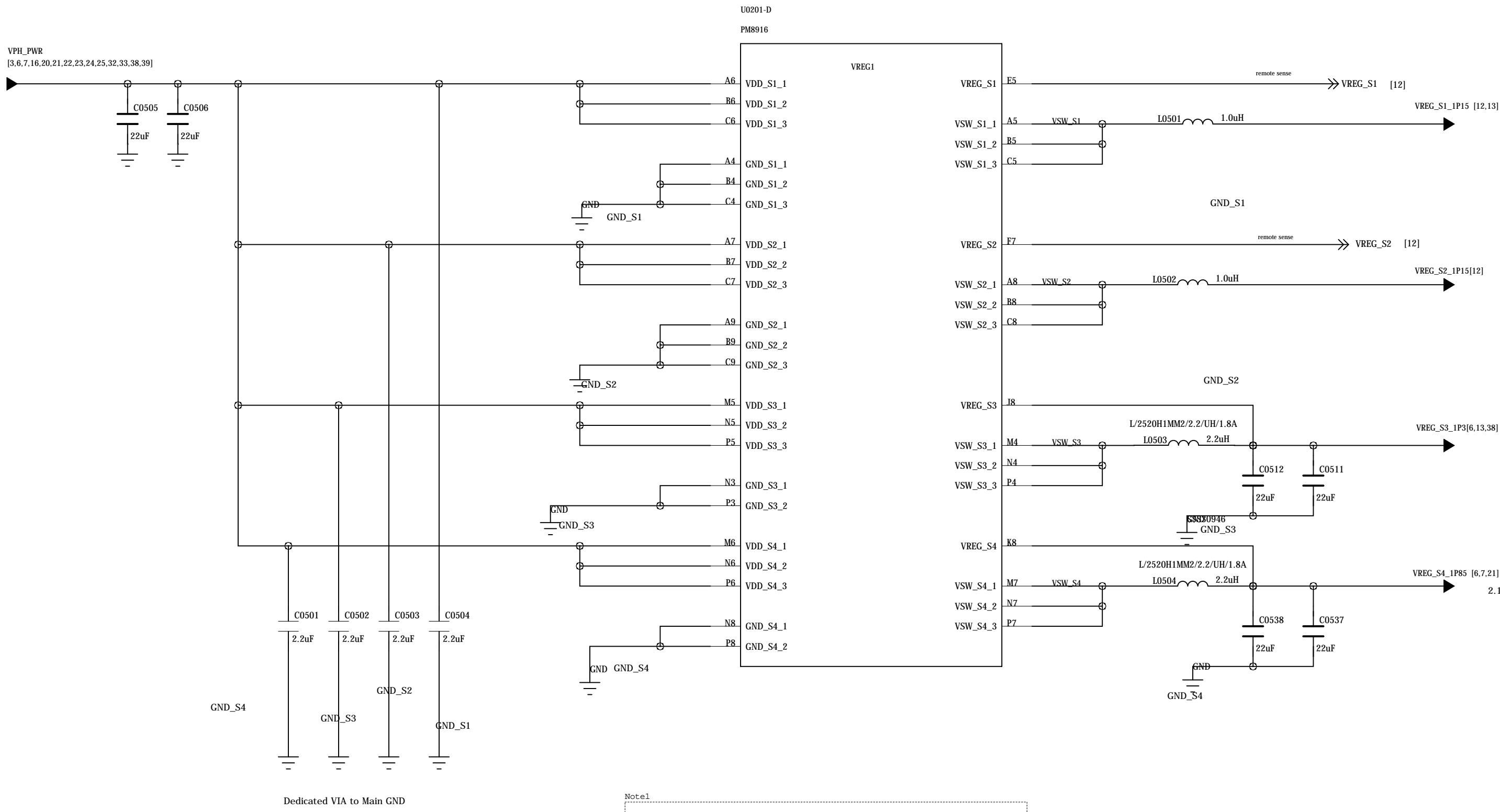
Pins	Hi Z	GND
OPT_1	No SMB1360	SMB1360 present
OPT_2	No Ext APC buck (S5)	Ext APC buck (S5) present



NOTE1: Sperate the AGND from the PGND

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.		QUALCOMM Incorporated	
		5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.	
Title			
Size	Sheet	Rev	
100%	1	1	





NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

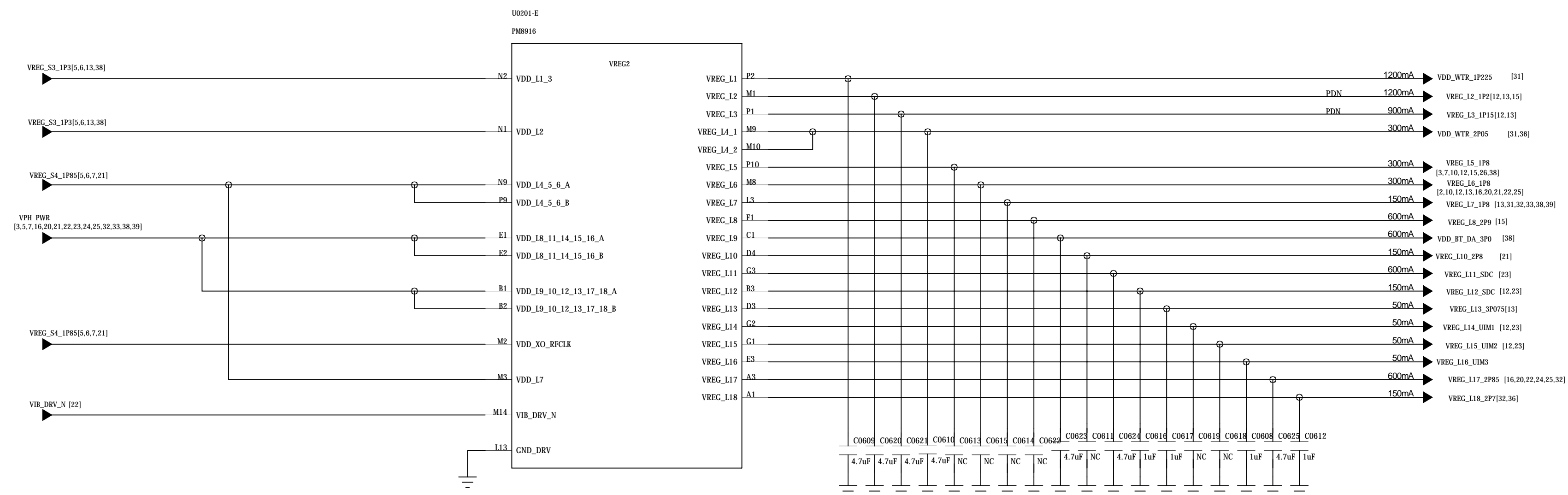
QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title

Size Sheet Name Rev

Date: Sheet of



```

Notel
-----
Please connect PIN L13 GND_DRV to main GND
-----

```

PSEUDO CAPLESS LDOs
 L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18.
 LDOs L8, L9, L11, L17 each shall have total effective output capacitance of 4.7uF
 Rest of the LDOs shall each have total effective output capacitance of 1.0uF
 Please ensure when you IN1 the output capacitor of Pseudo capless LDOs
 The effective total capacitance at load side shall match above requirement

This is preliminary version, for reference only

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title		
Size	Sheet Name	Rev
File:		Sheet of



Dedicated trace to D2 pin first

Dedicated VIA to Main GND

Note1

.....

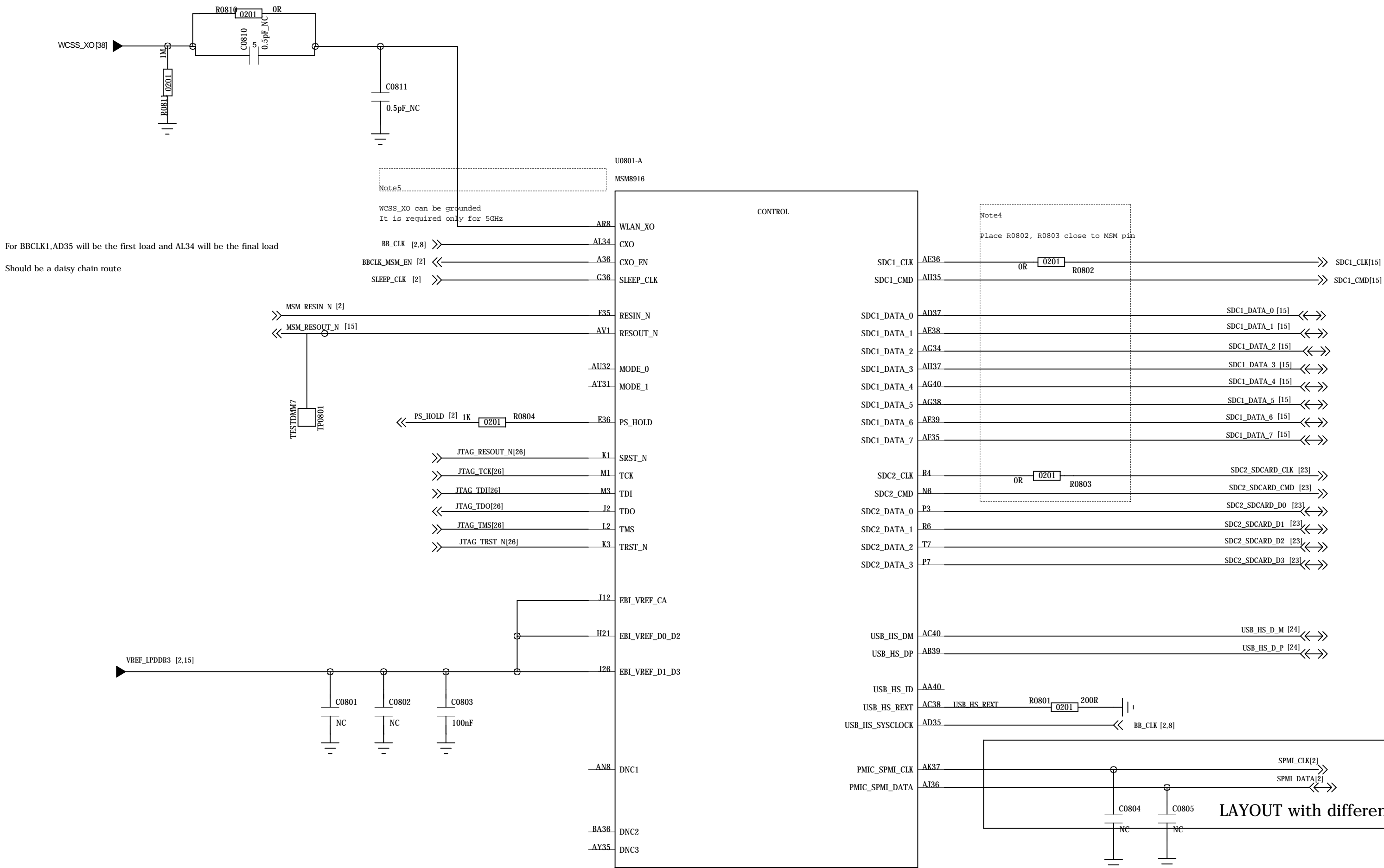
Please connect C13, E14, A14, B13 to respective VDD capacitor grounds directly and then to main GND

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

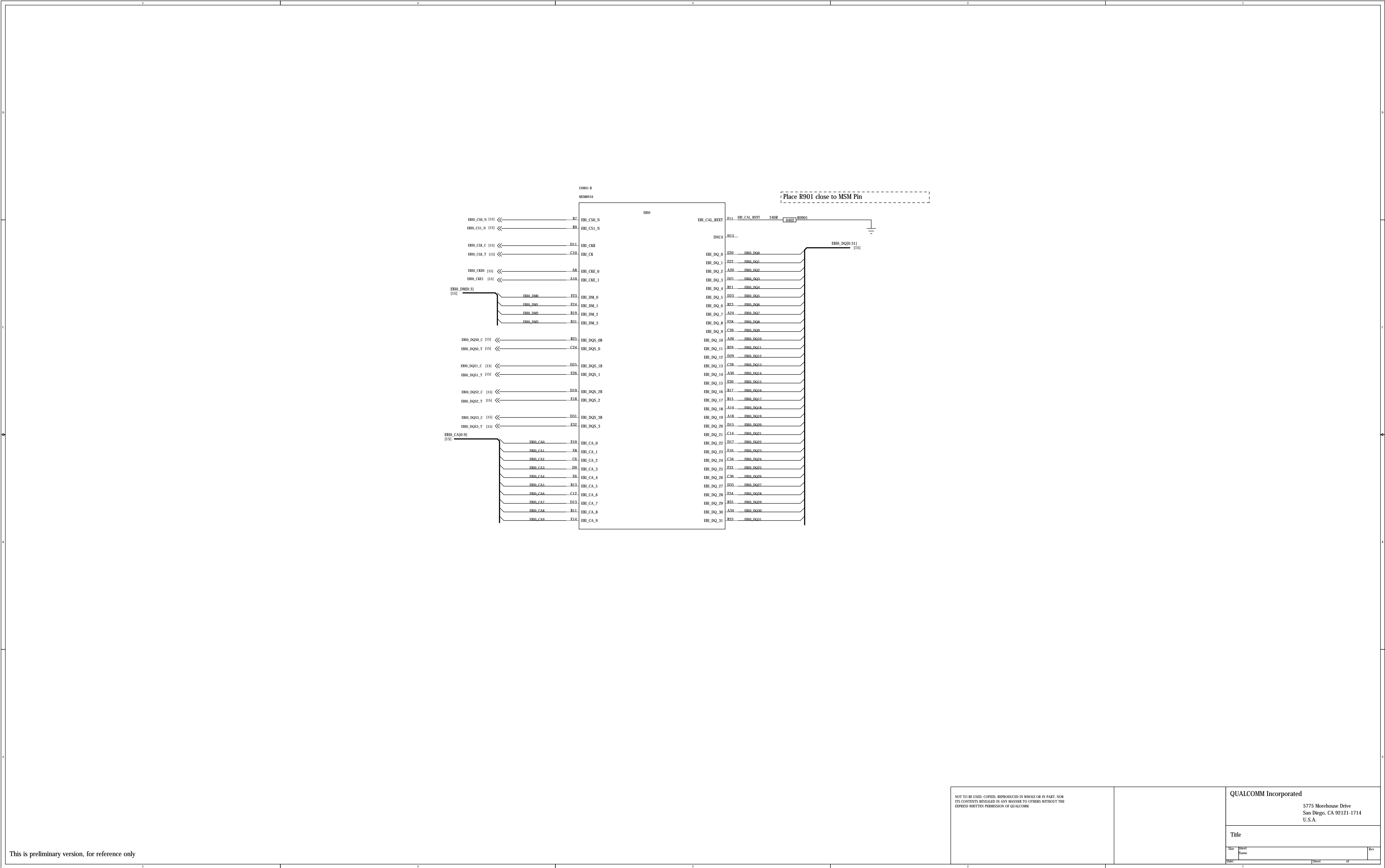
Size	Sheet
------	-------

Date: _____ Sheet _____ of _____



For BBCLK1,AD35 will be the first load and AJ34 will be the final load
Should be a daisy chain route

caps must be no more than 2mm away from the MSM



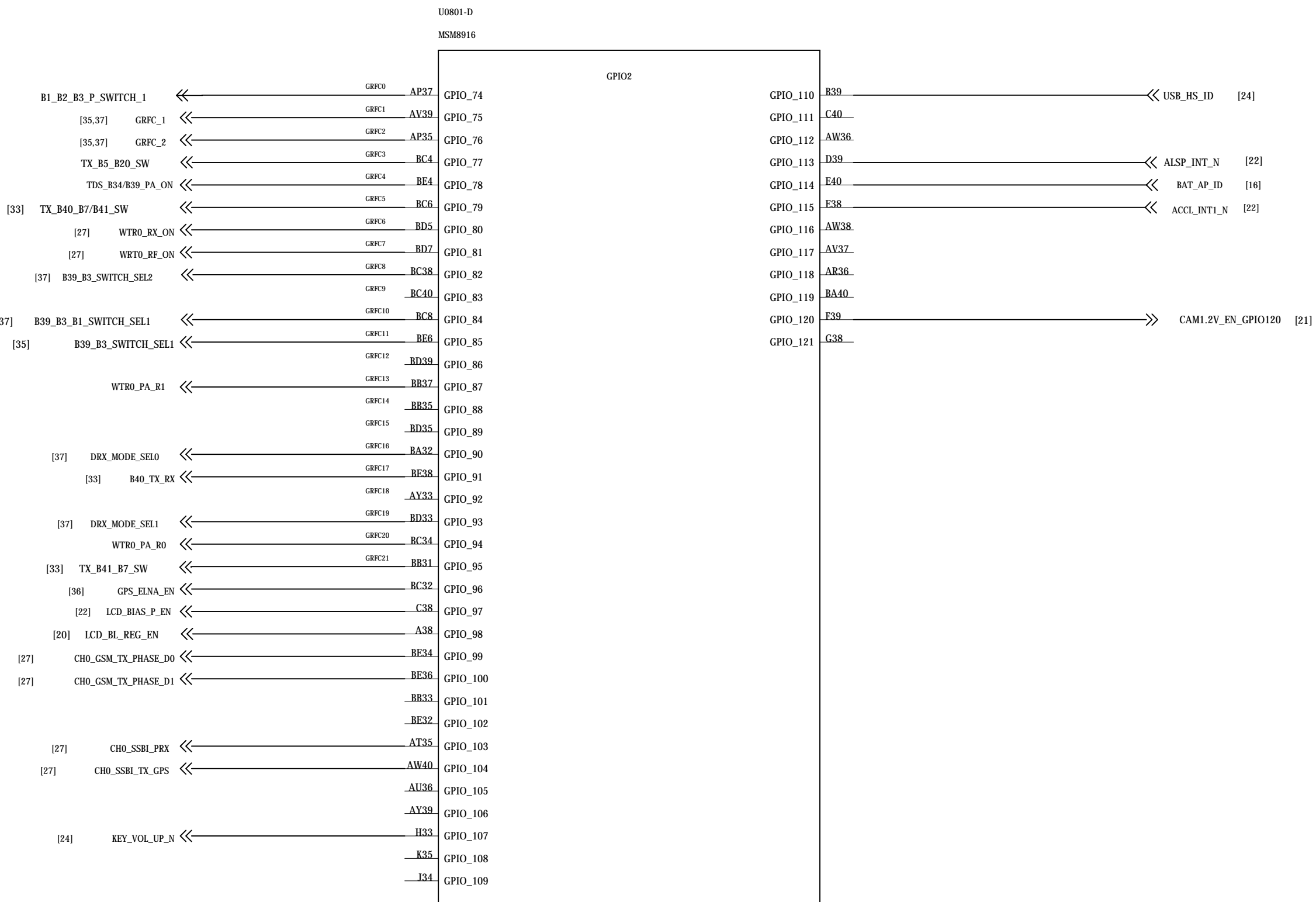
This is preliminary version, for reference only

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

QUALCOMM Incorporated

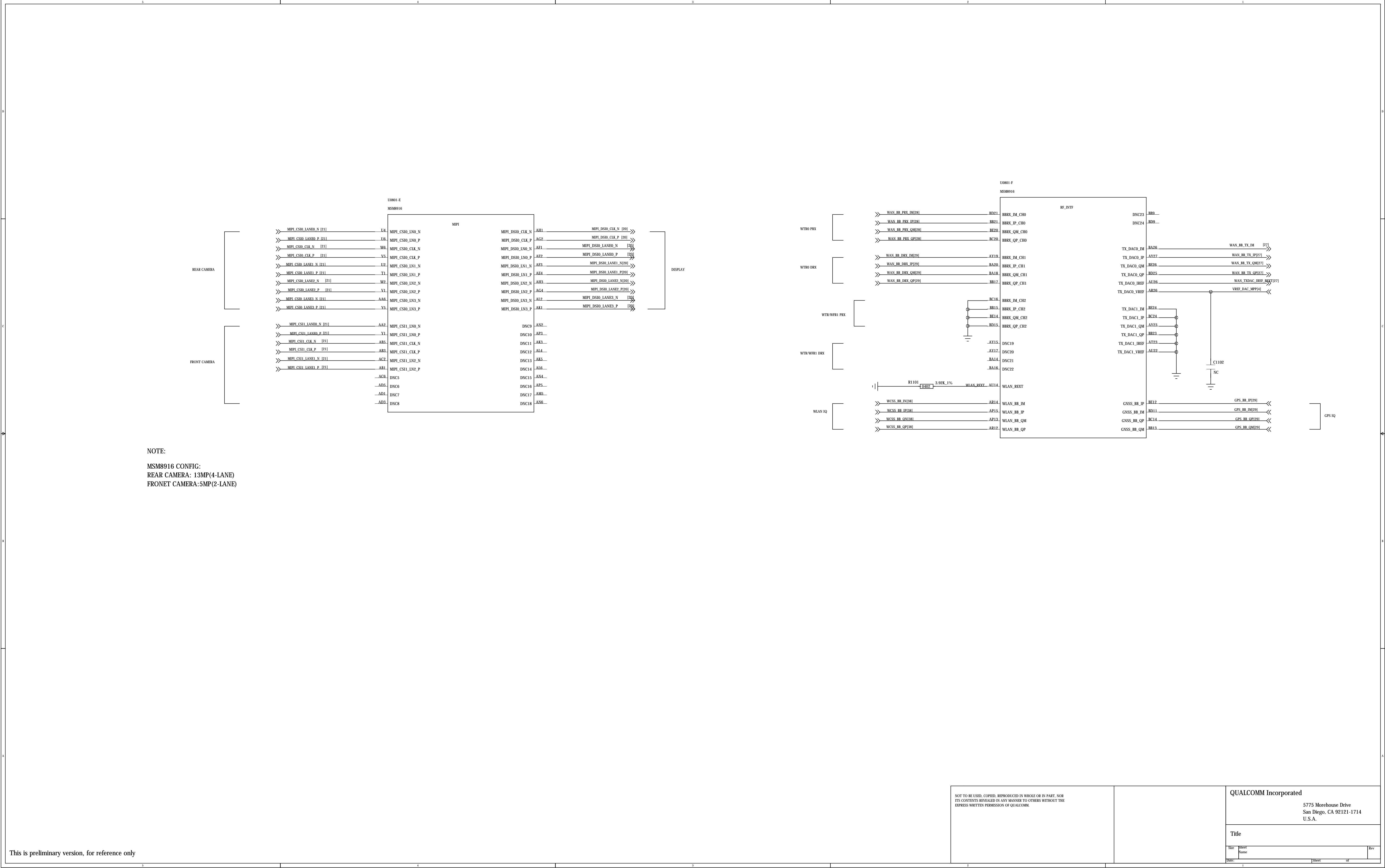
5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title		
Size	Sheet	Rev
Date:	Name	
Sheet of		



BOOT_CONFIG[3:1]	BOOT_CONFIG
0b000	SDC1->SDC2->USB2.0
0b001	SDC2->SDC1->USB2.0
0b010	SDC1->USB2.0
0b000	USB2.0

This is preliminary version, for reference only

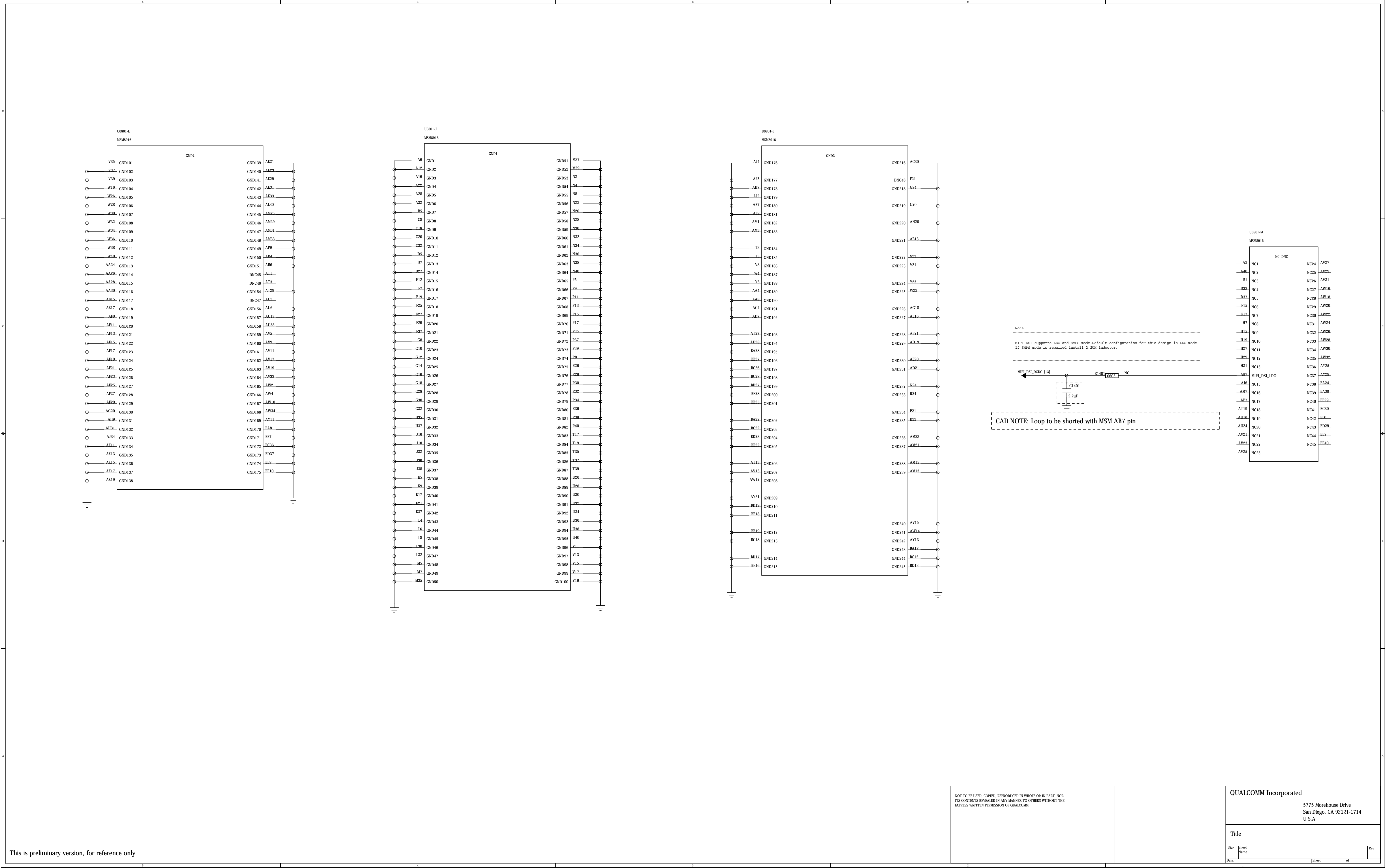


NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

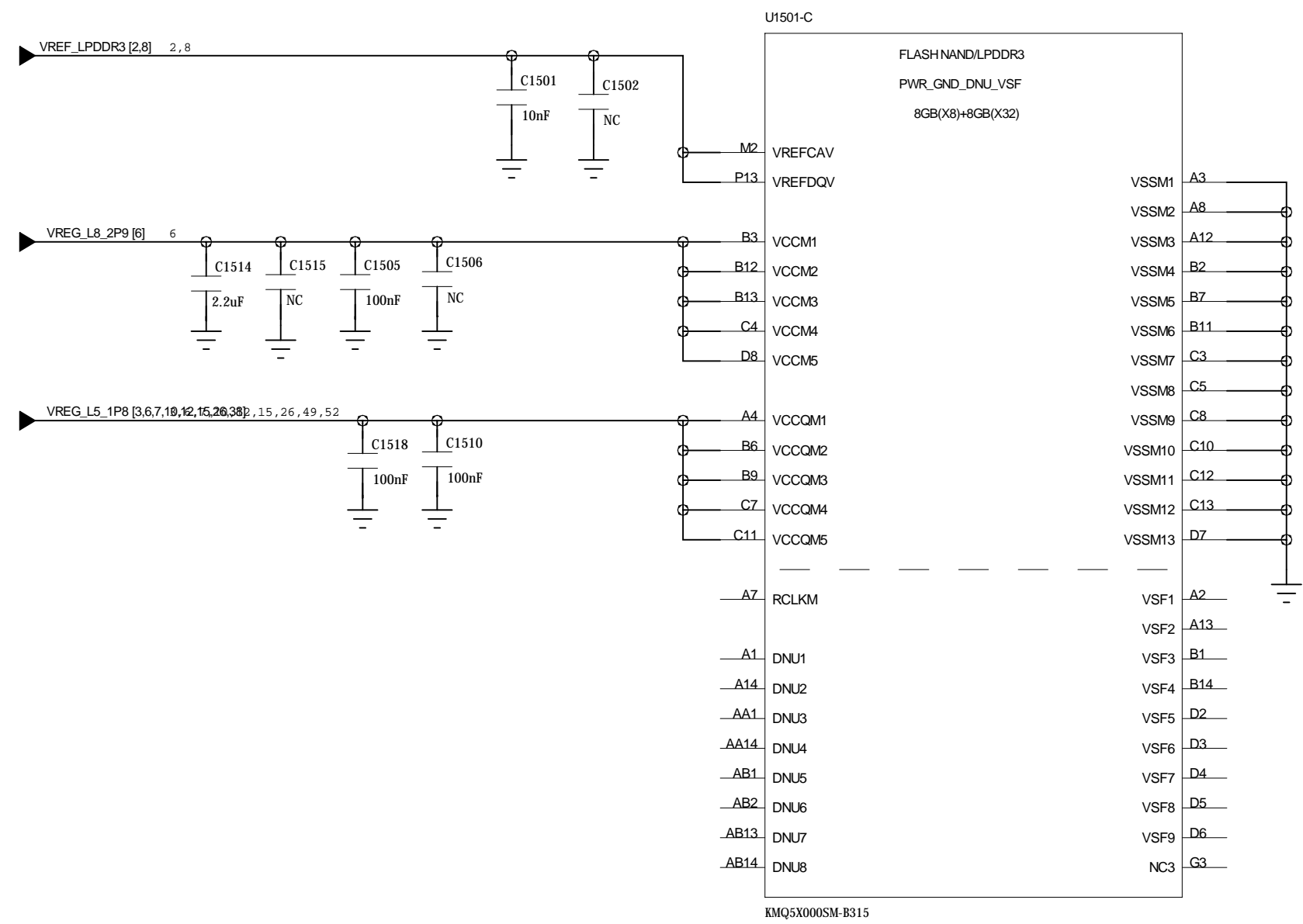
QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

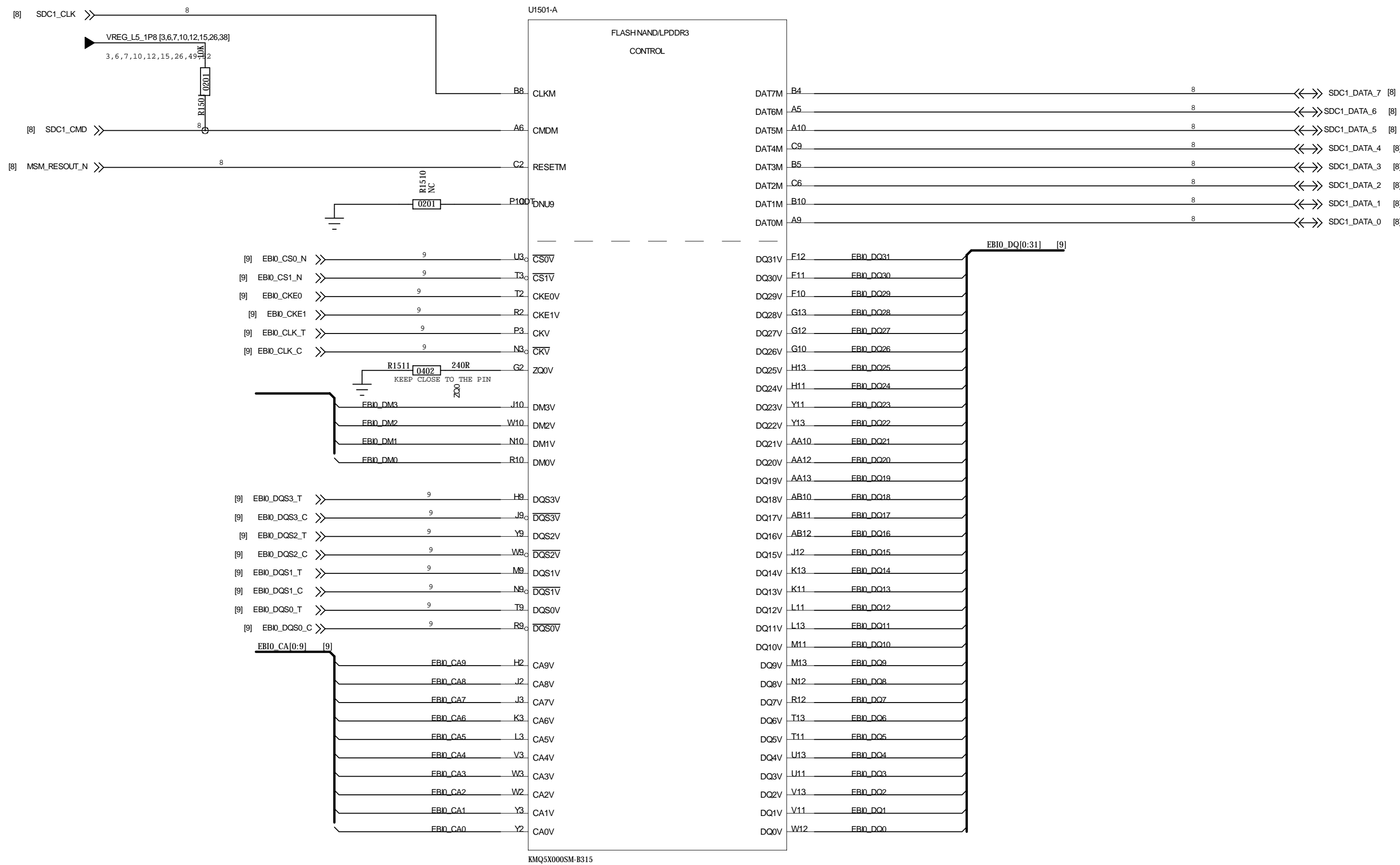
Title		
Size	Sheet	Rev
mm	Name	
Date: 11/20/07 11:20:07 AM 11/20/07 11:20:07 AM 11/20/07 11:20:07 AM		



This is preliminary version, for reference only



Note: Pull-up resistors on SDC1_DATA are PCB and eMMC vender dependent

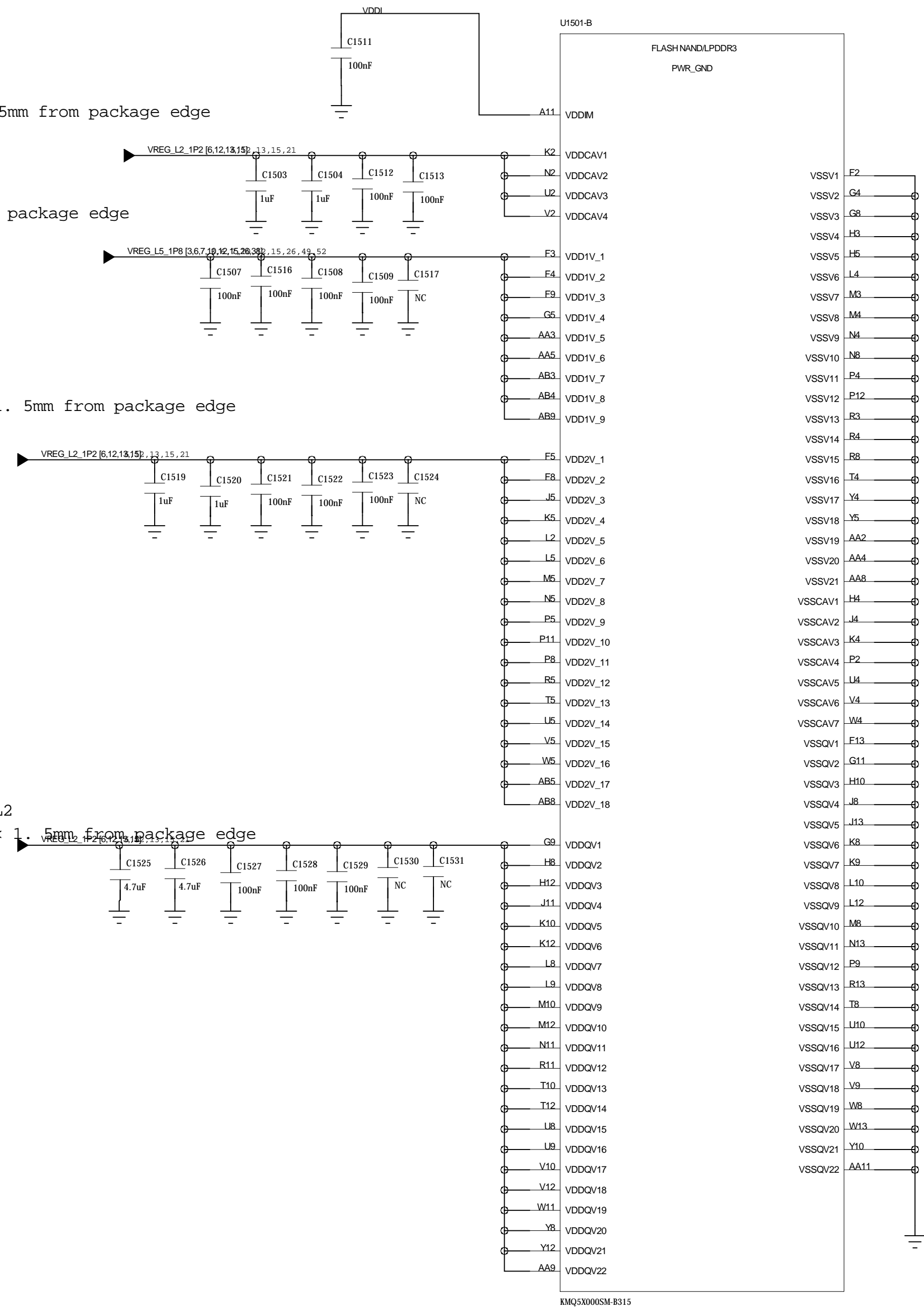


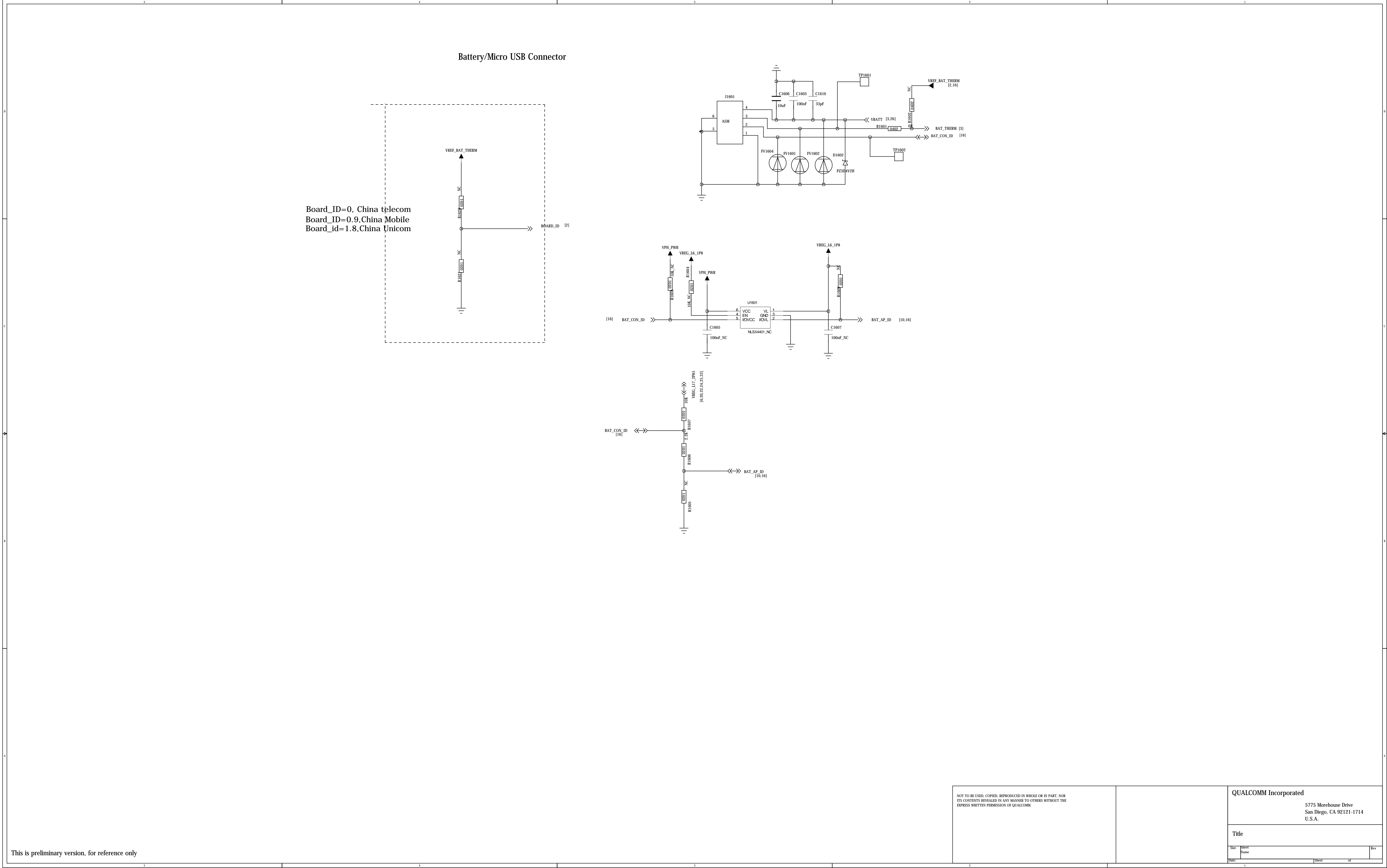
VDDCA decaps must be < 1.5mm from package edge

VDD1 decaps must be < 5mm from package edge

VDD2 decaps must be < 1.5mm from package edge

Use solid Plane for L2
VDD2 decaps must be < 1.5mm from package edge





NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

QUALCOMM Incorporated
5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title

Size

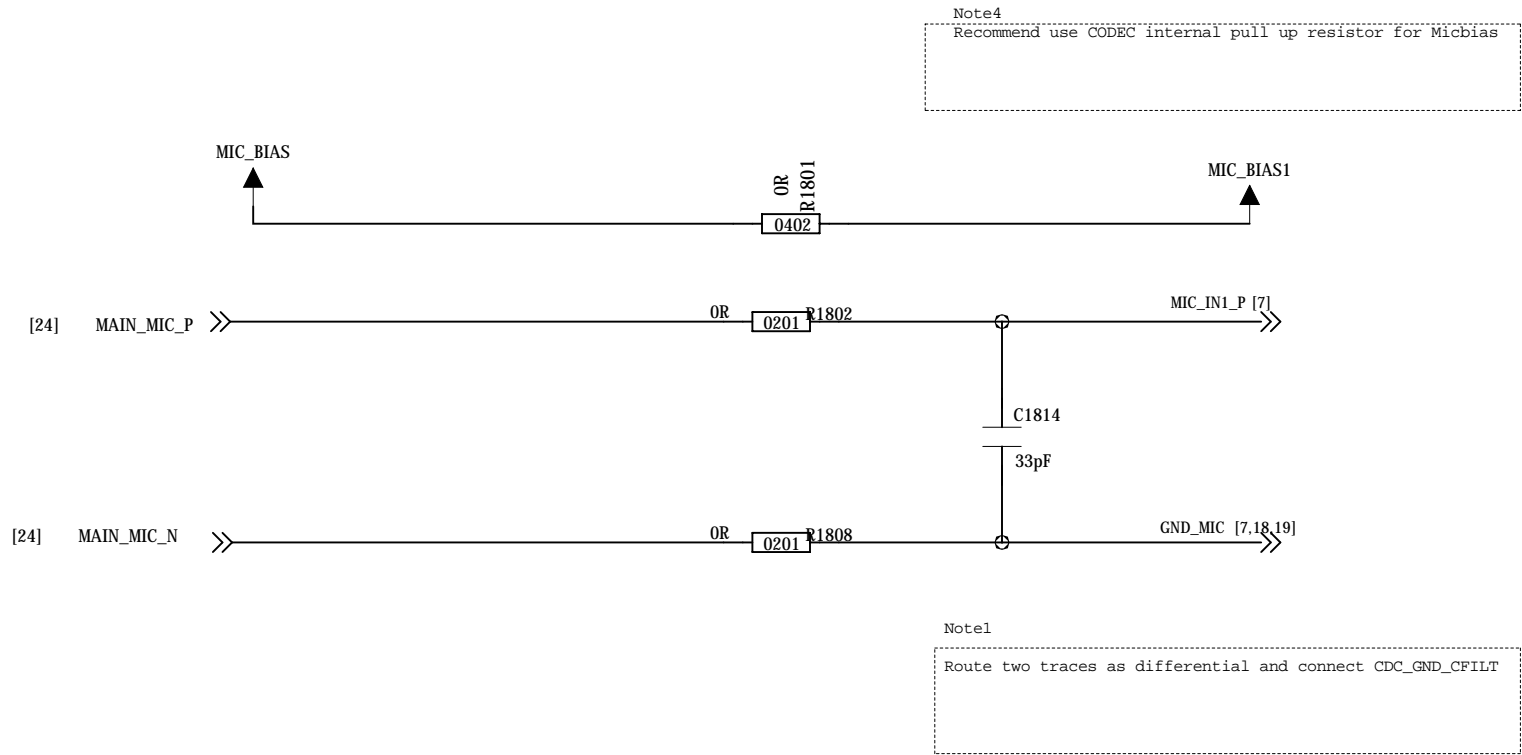
Sheet

Name

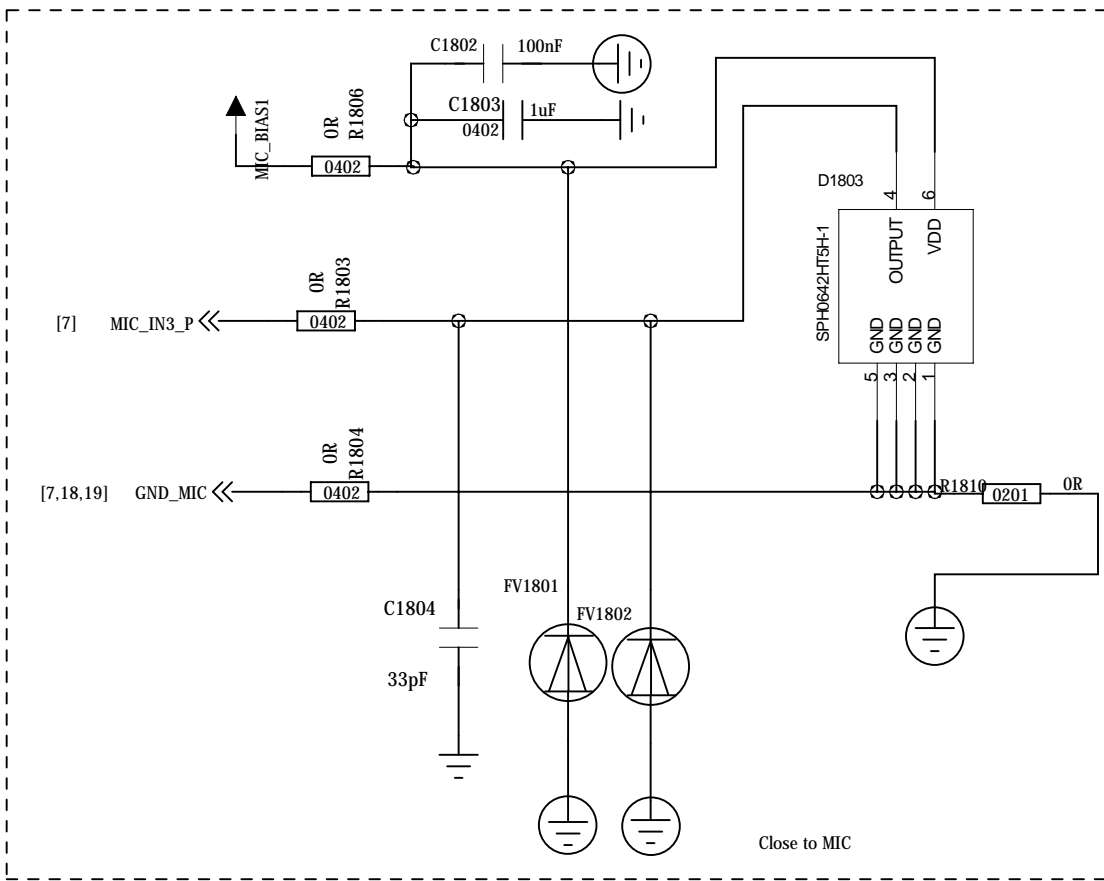
Rev

Page 1 of 1

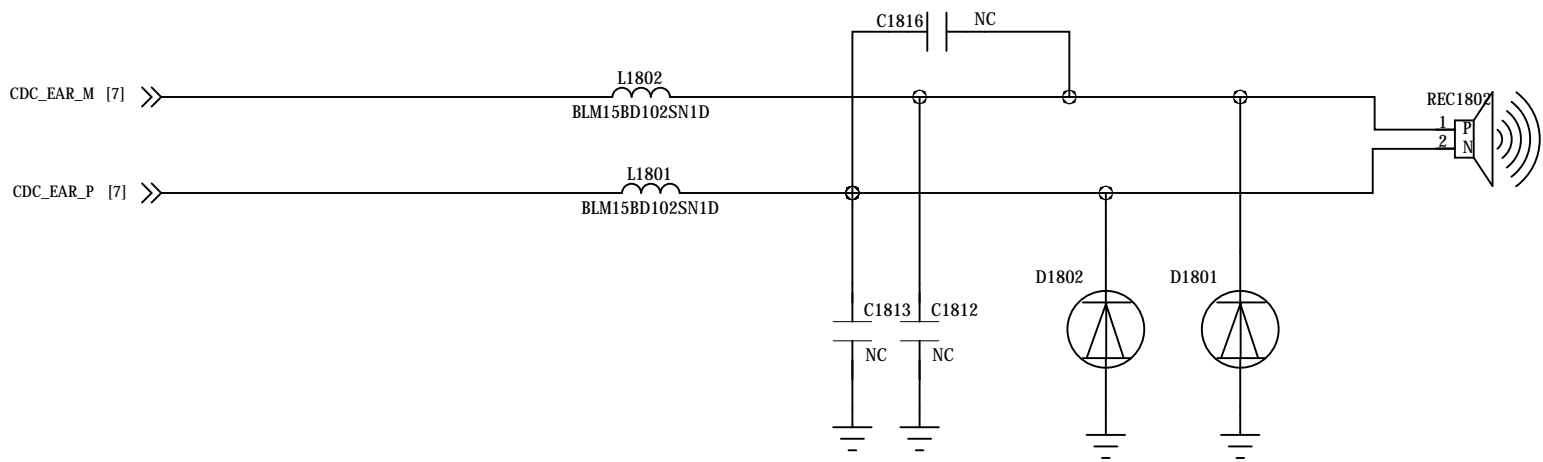
PRIMARY MIC

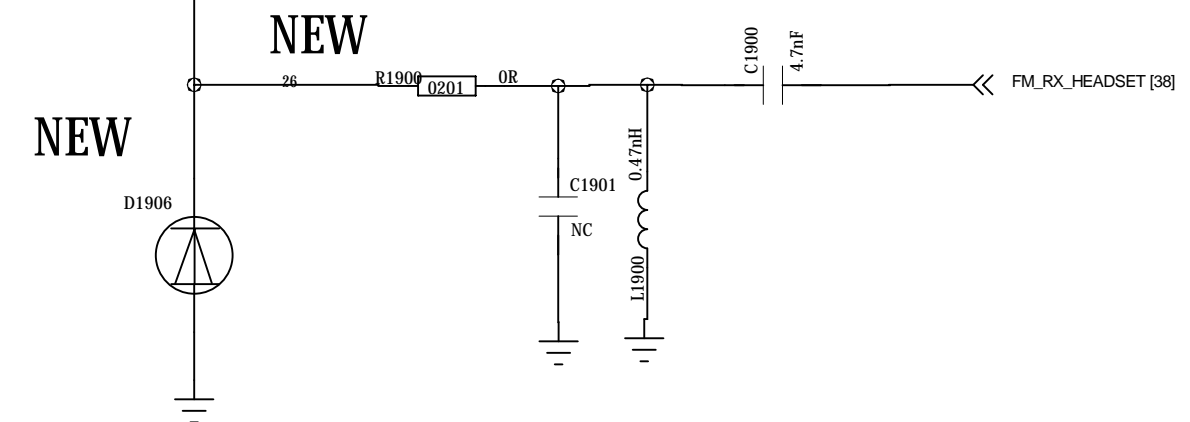


SECONDARY MIC



RECEIVER

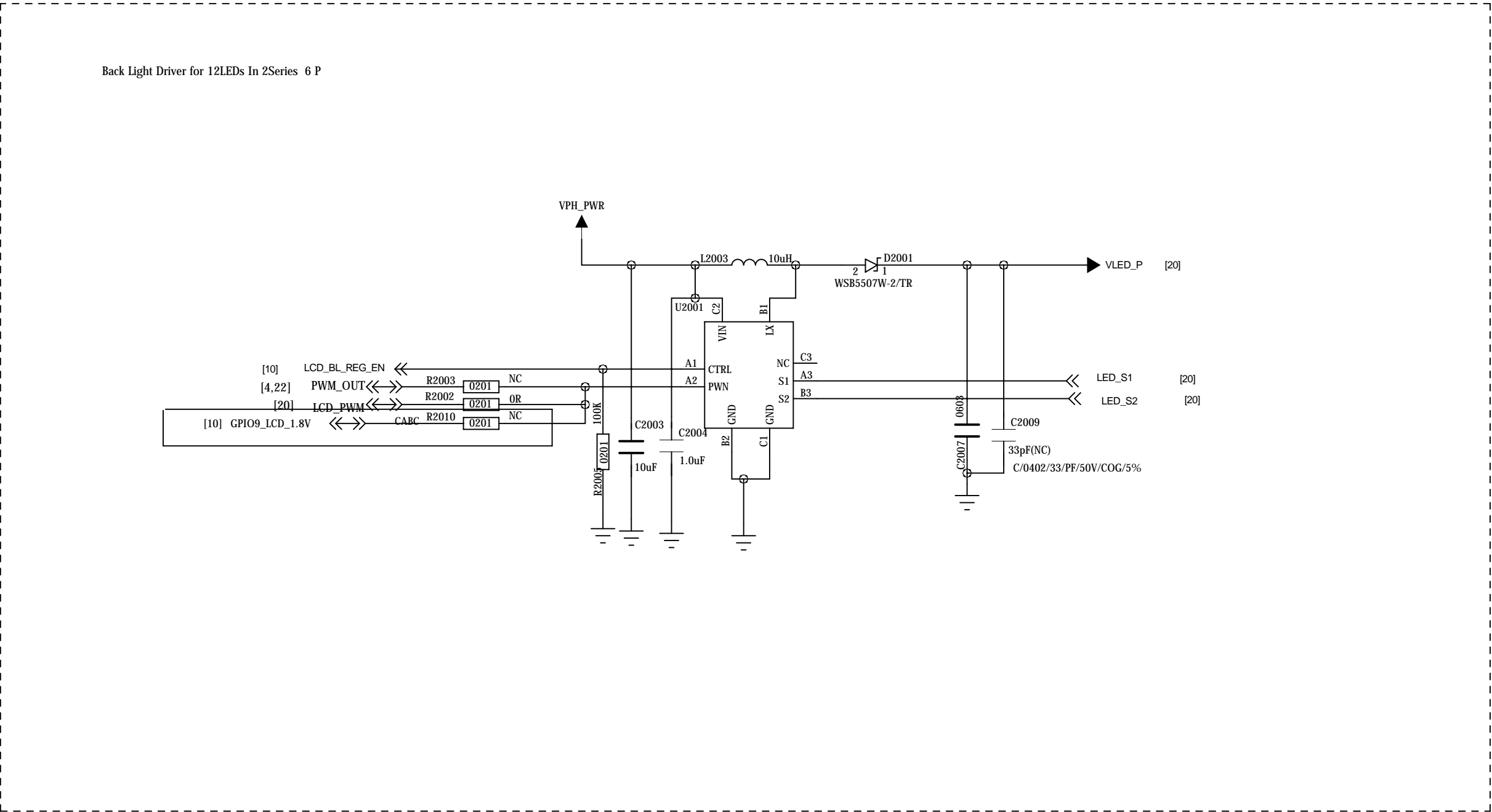
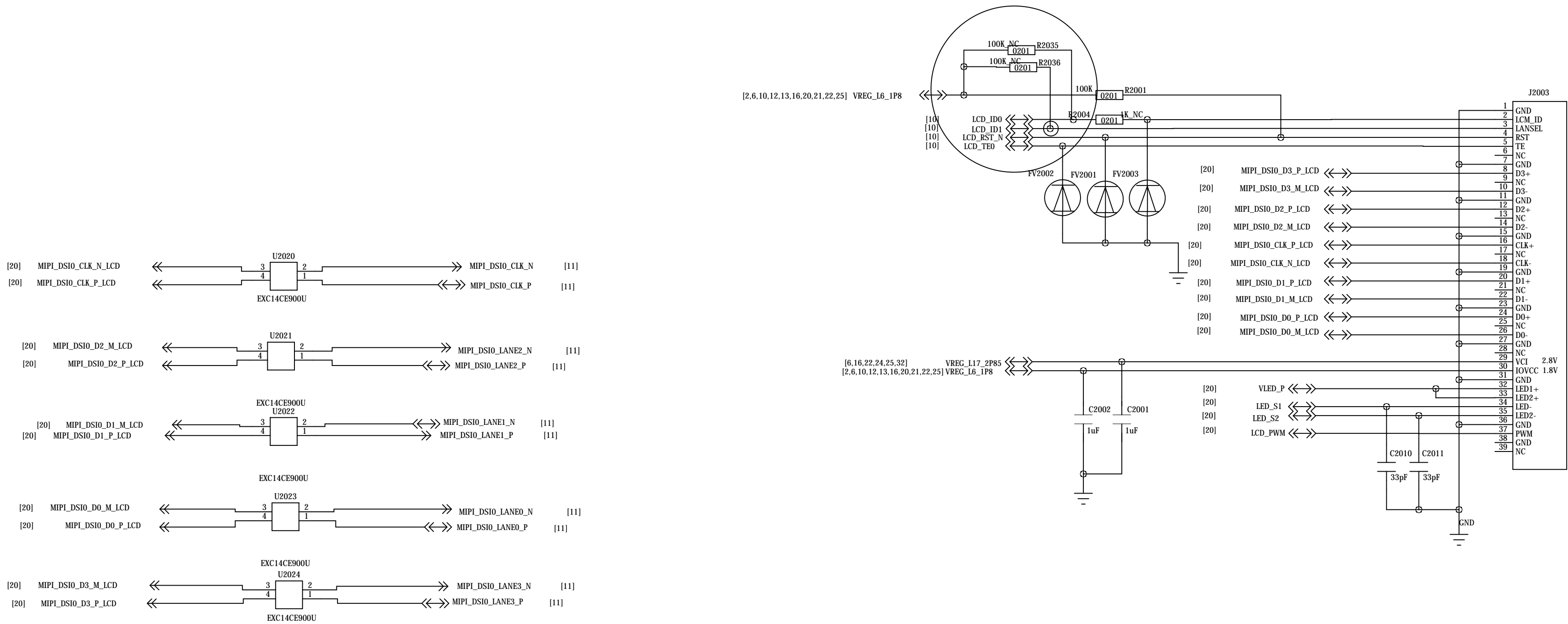




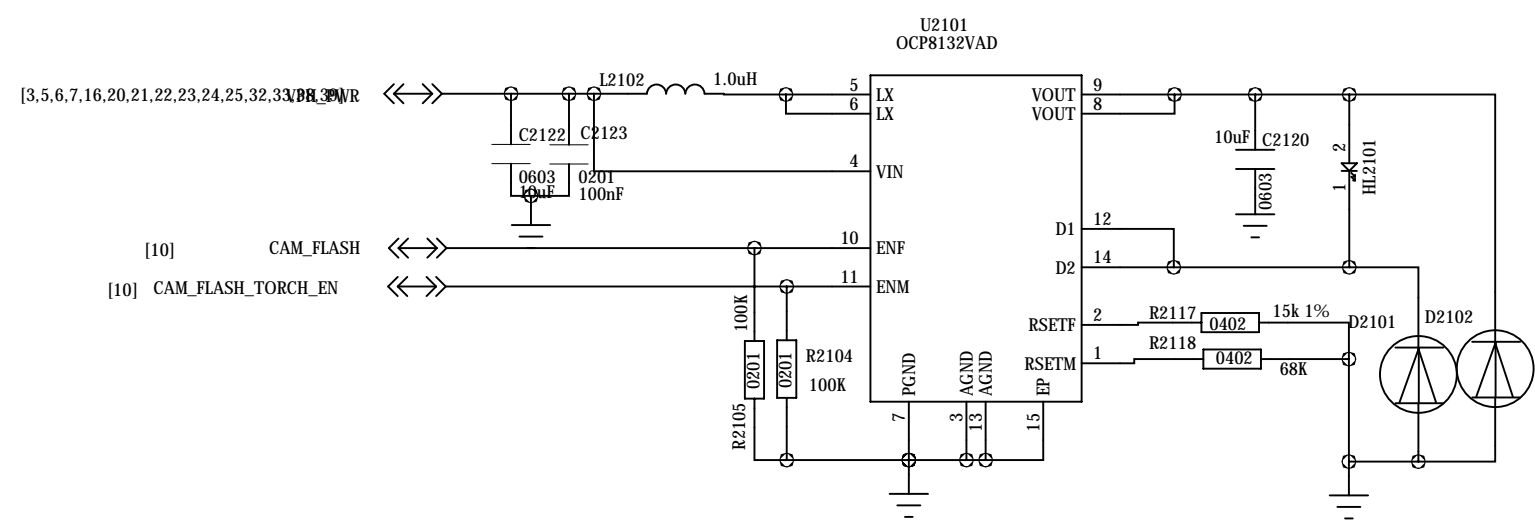
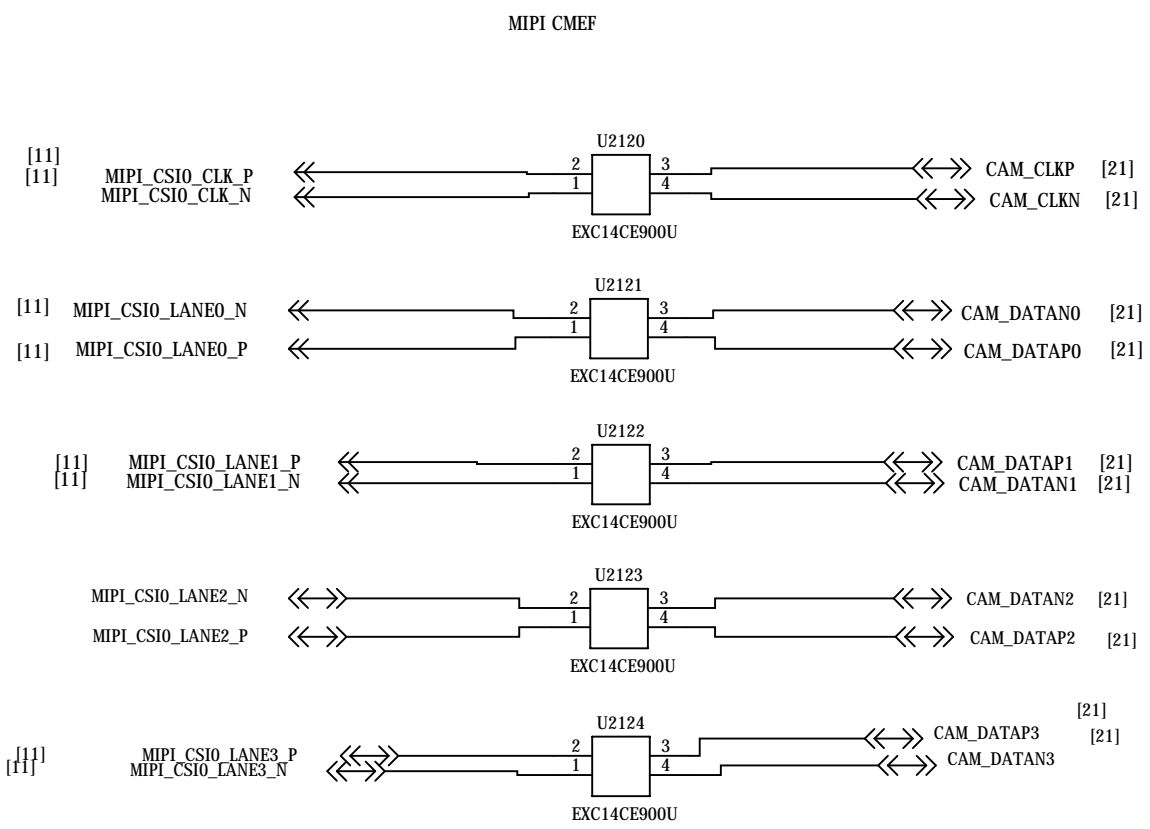
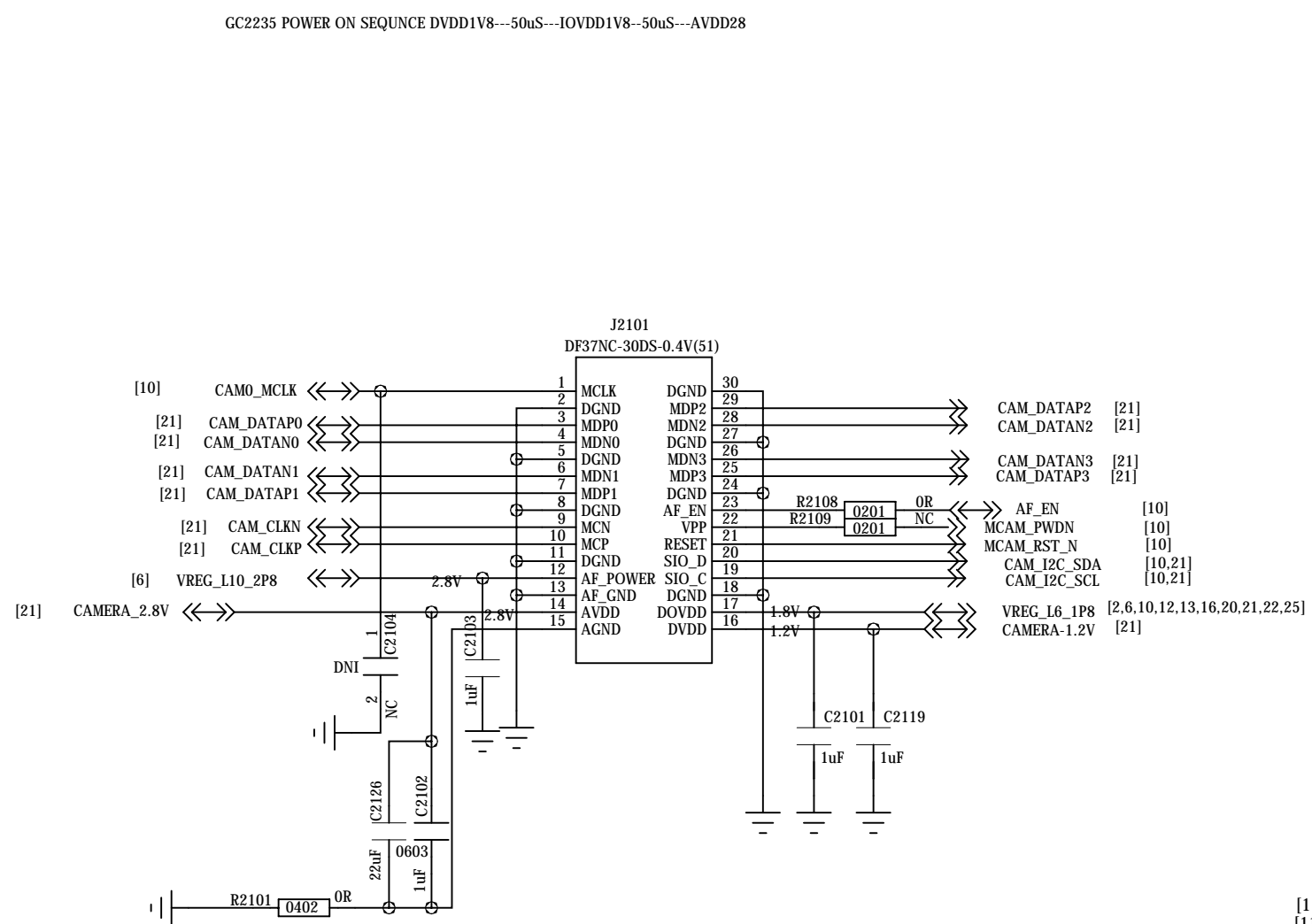
NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

Title		
Size	Sheet Name	Rev
Date:	Sheet of	

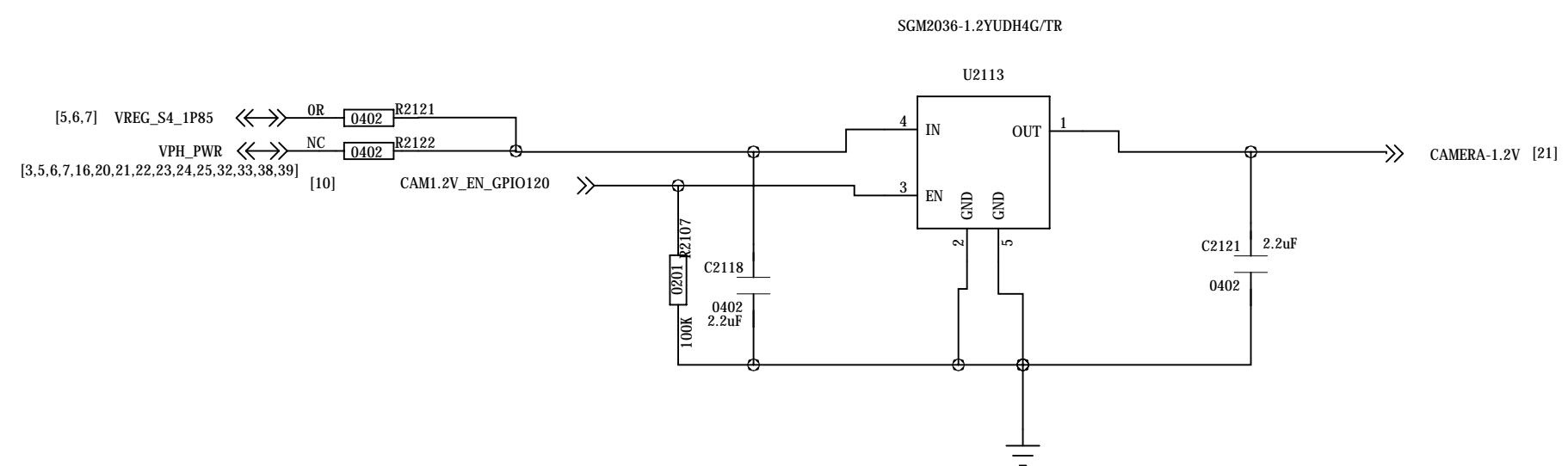
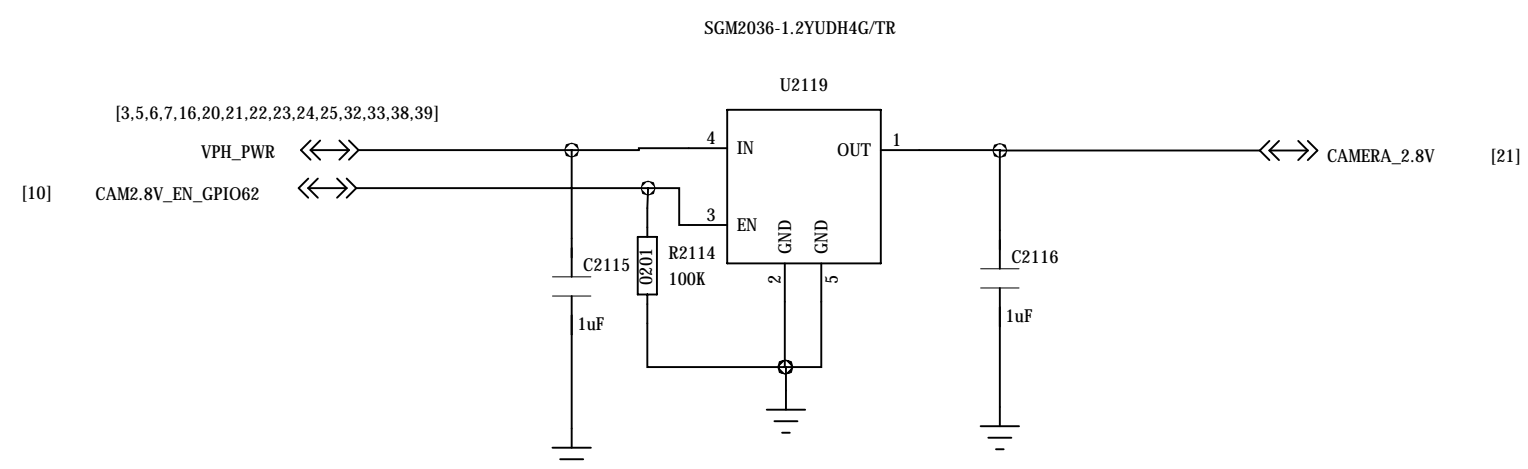
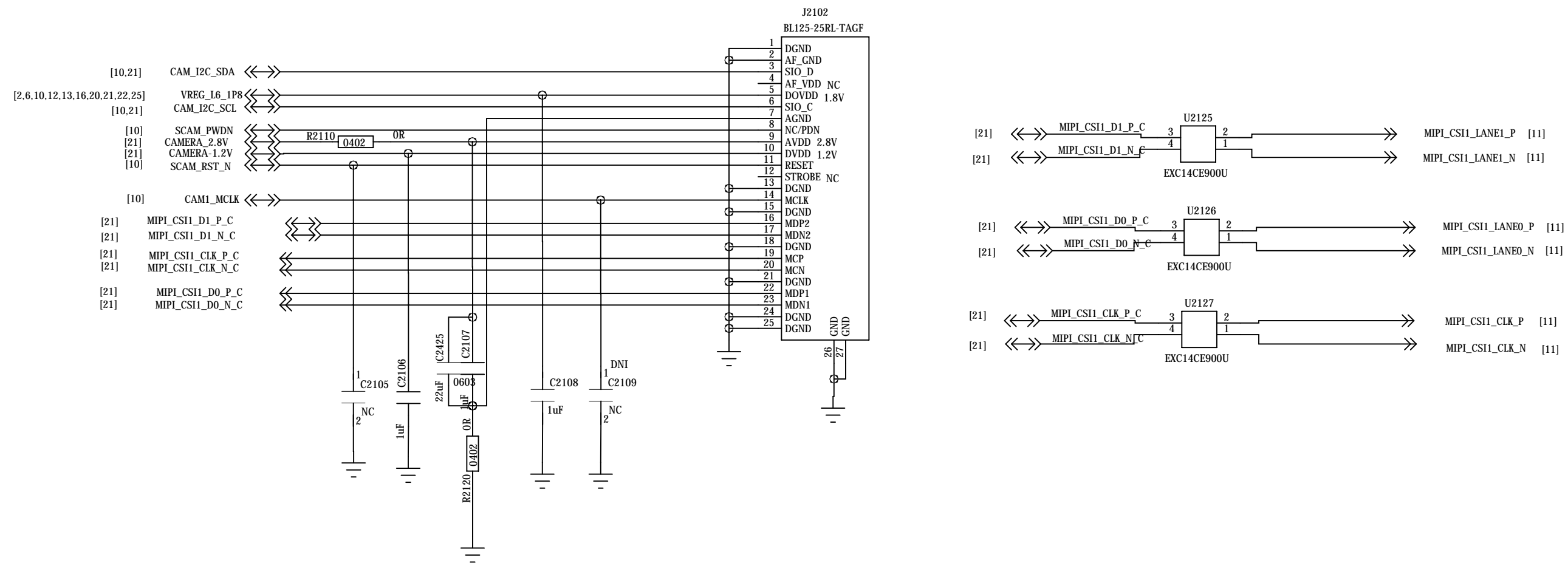
20. LCD interface and backlight driver



CS0:13M
CS1:5M



OCP8132 TORCH=Id1+Id2 Imovie= Id1+Id2=6800/R2118=200mA R2118=68K
 FLASH=Id1+Id2 Iflash= Id1+Id2=6800/R2117=906mA R2117=15K



NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

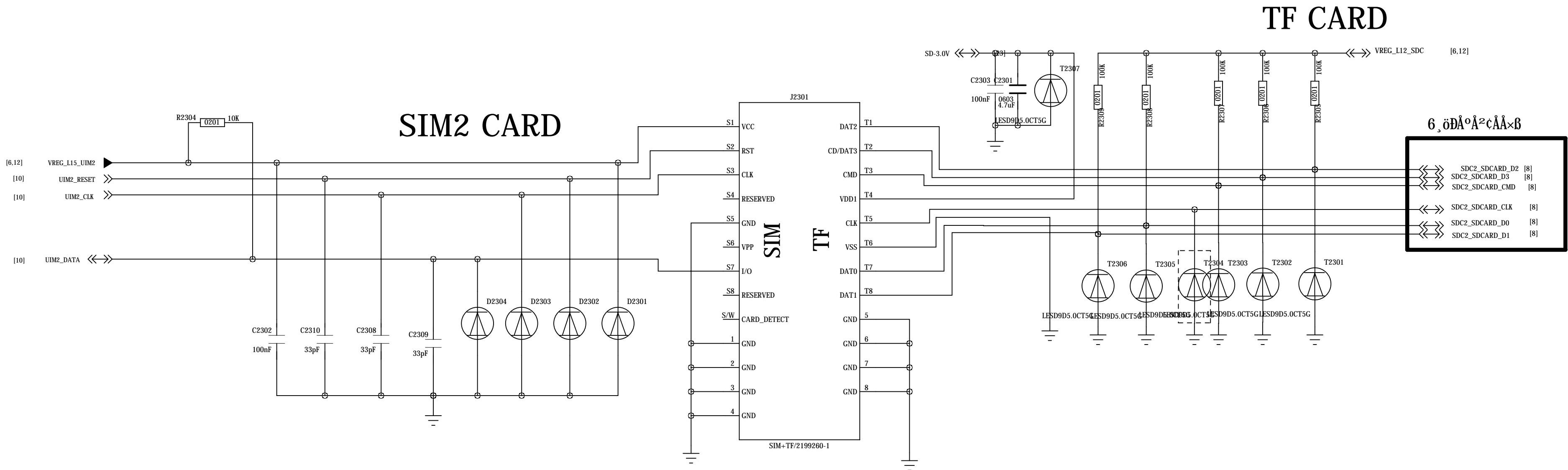
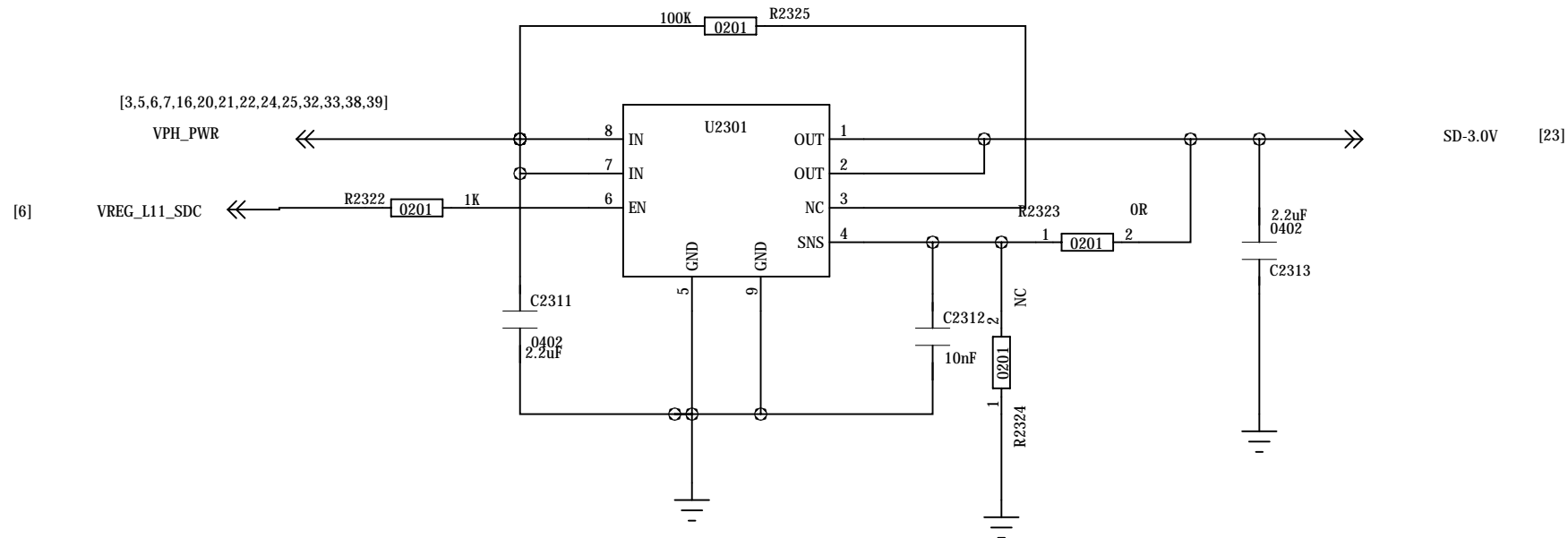
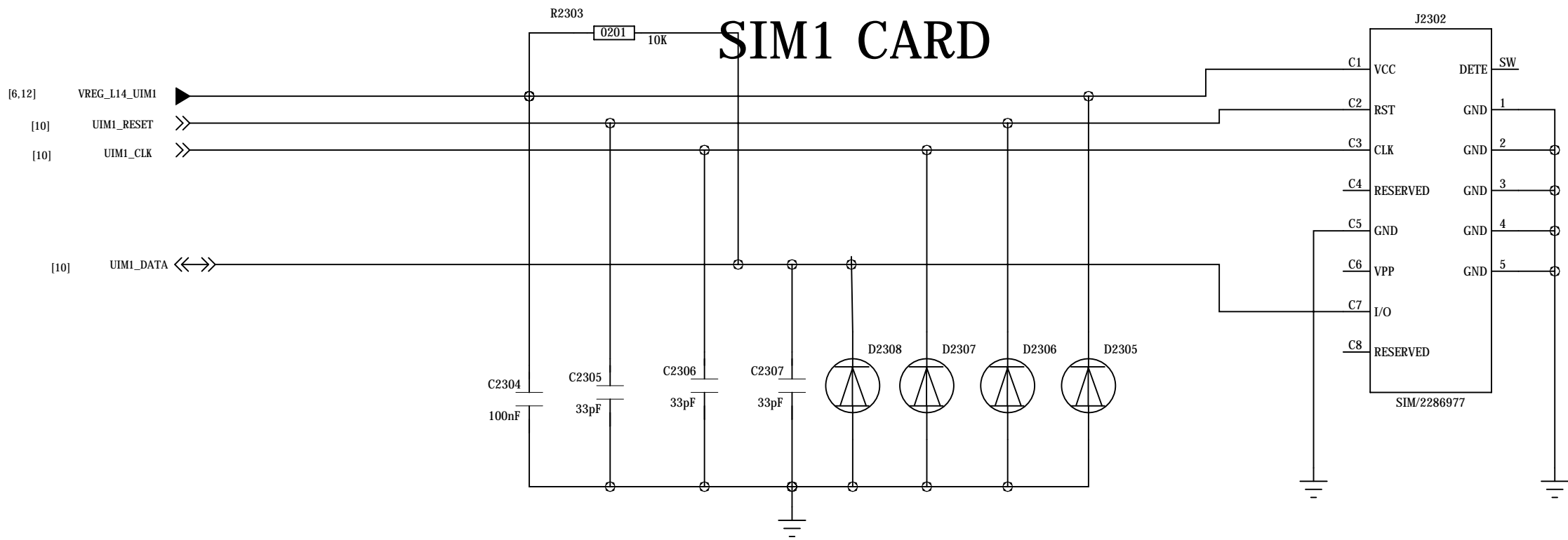
Title

Size	Sheet Name	Rev
Date:	Sheet	of

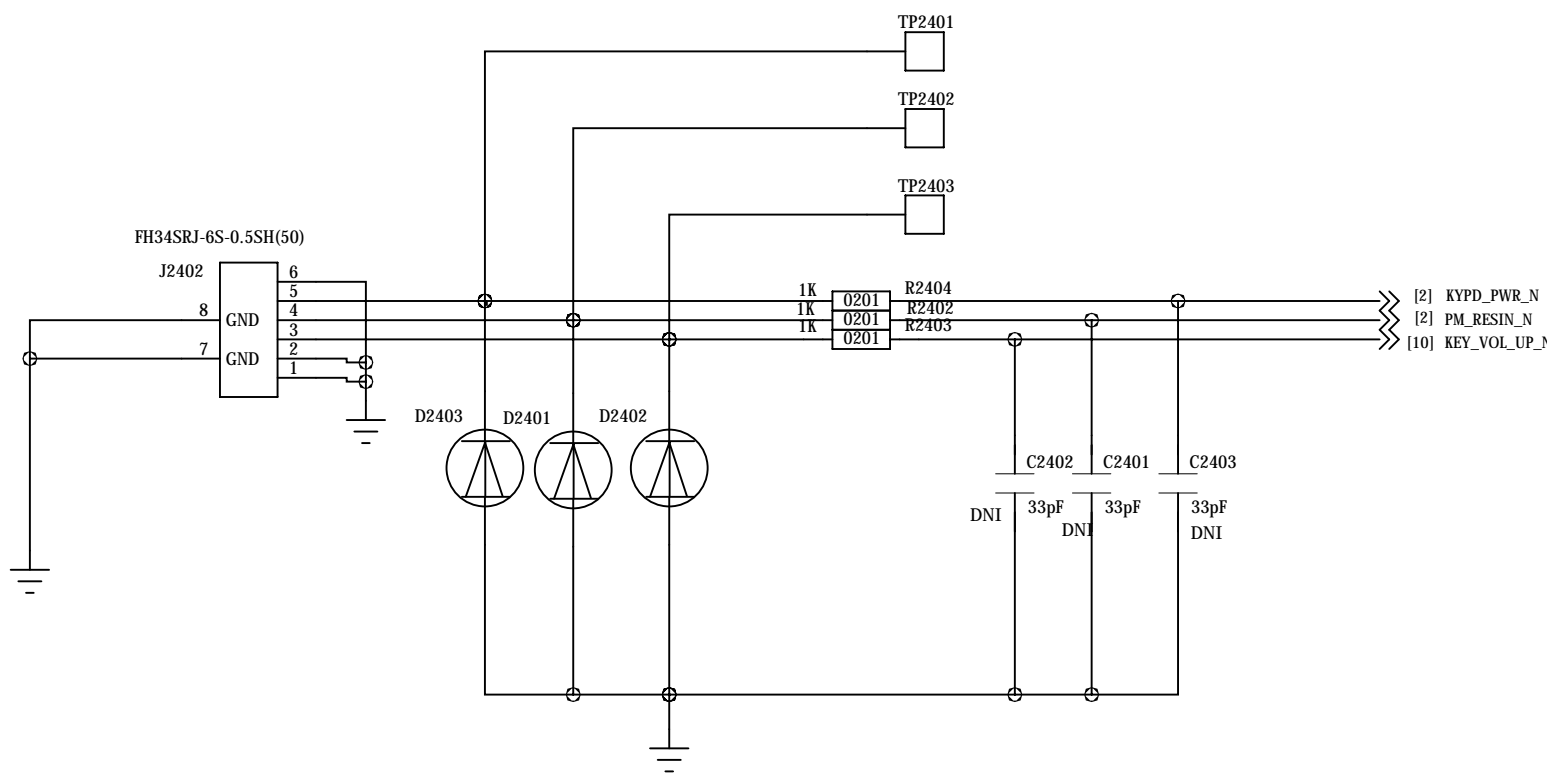
5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Size	Sheet Name	Rev
------	------------	-----

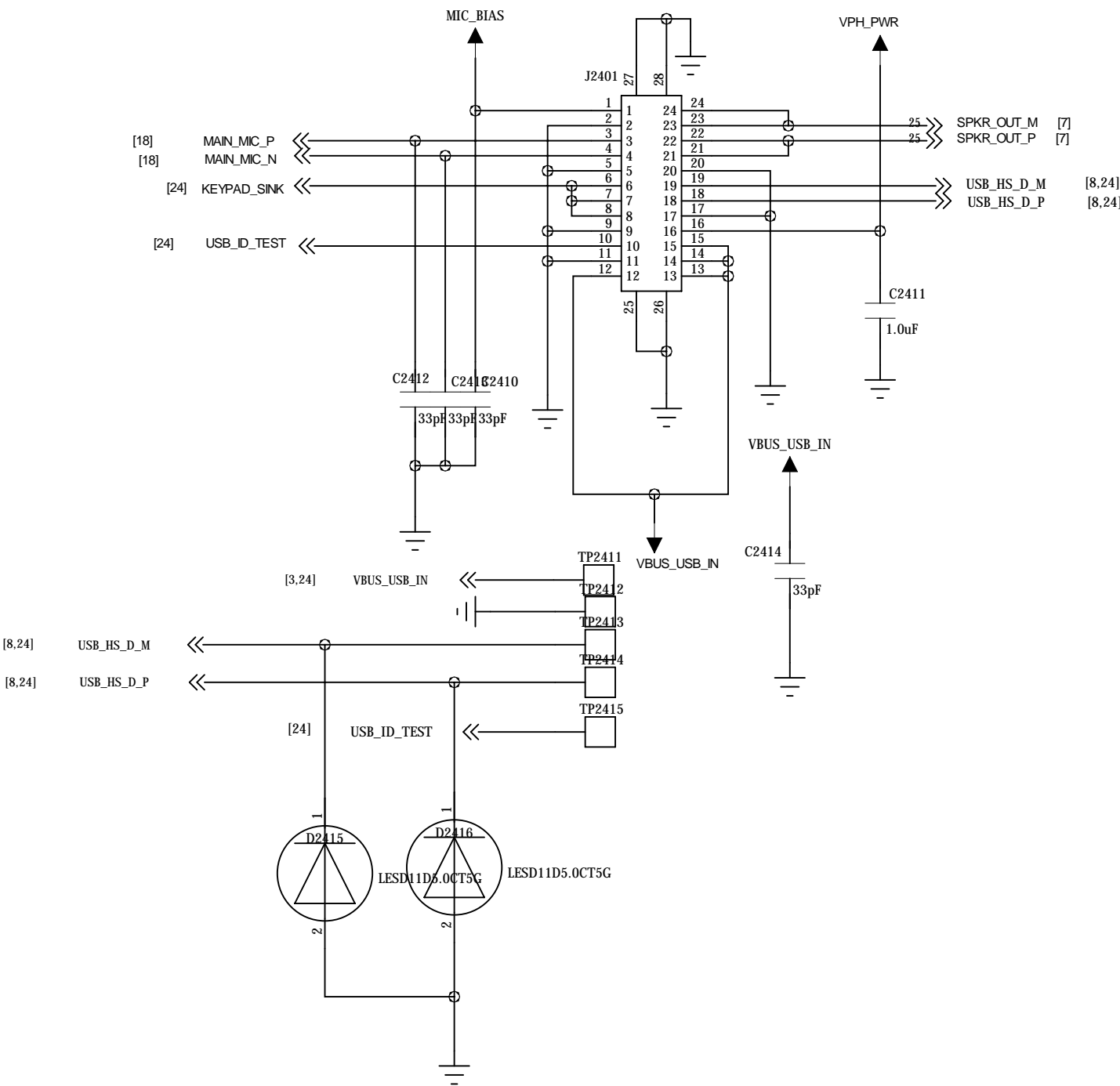
Date:	Sheet	of
-------	-------	----



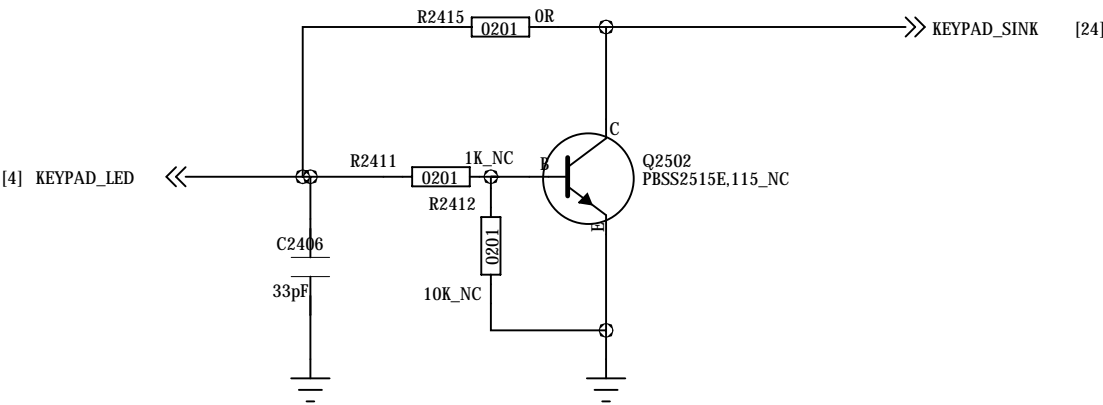
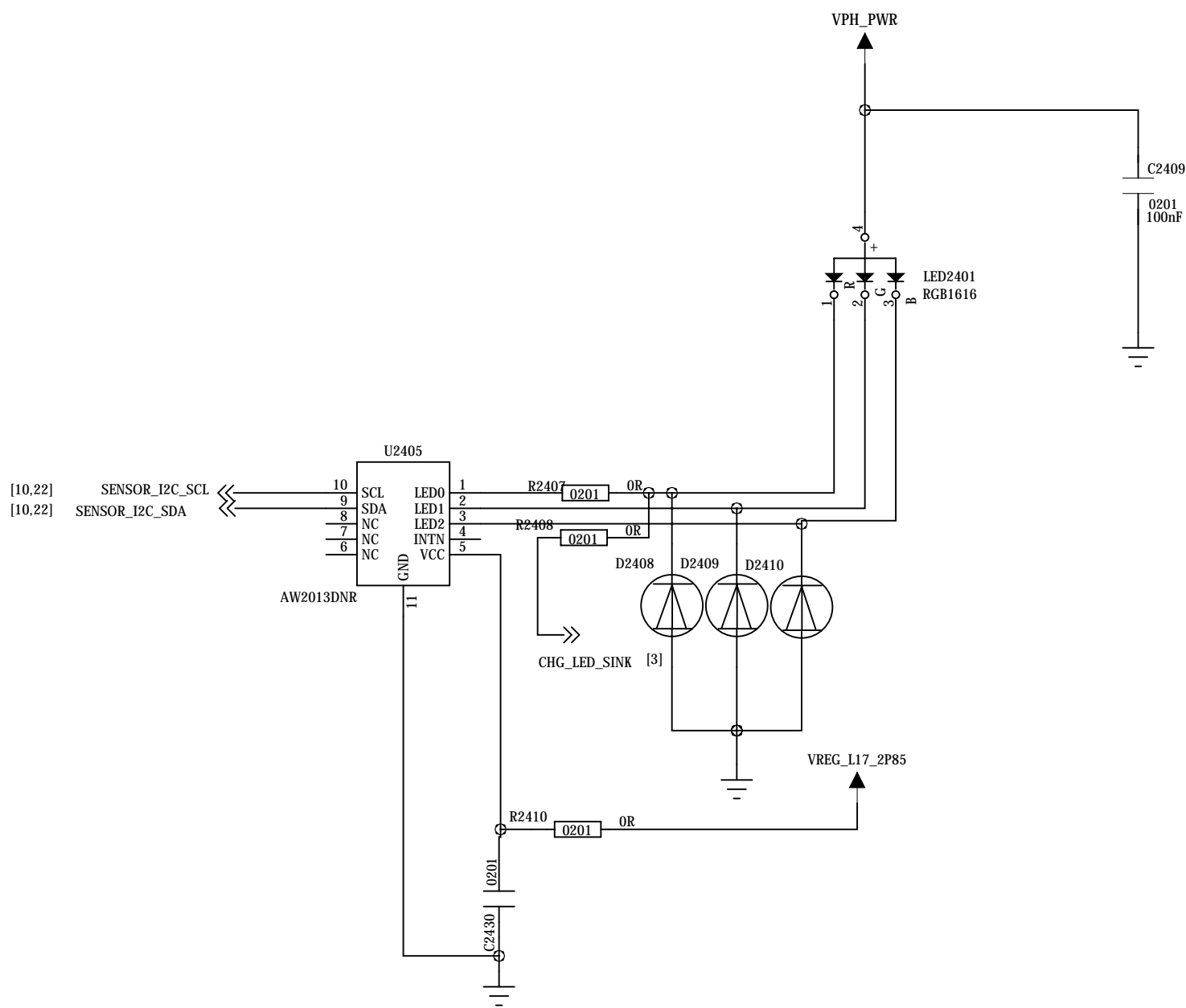
side key



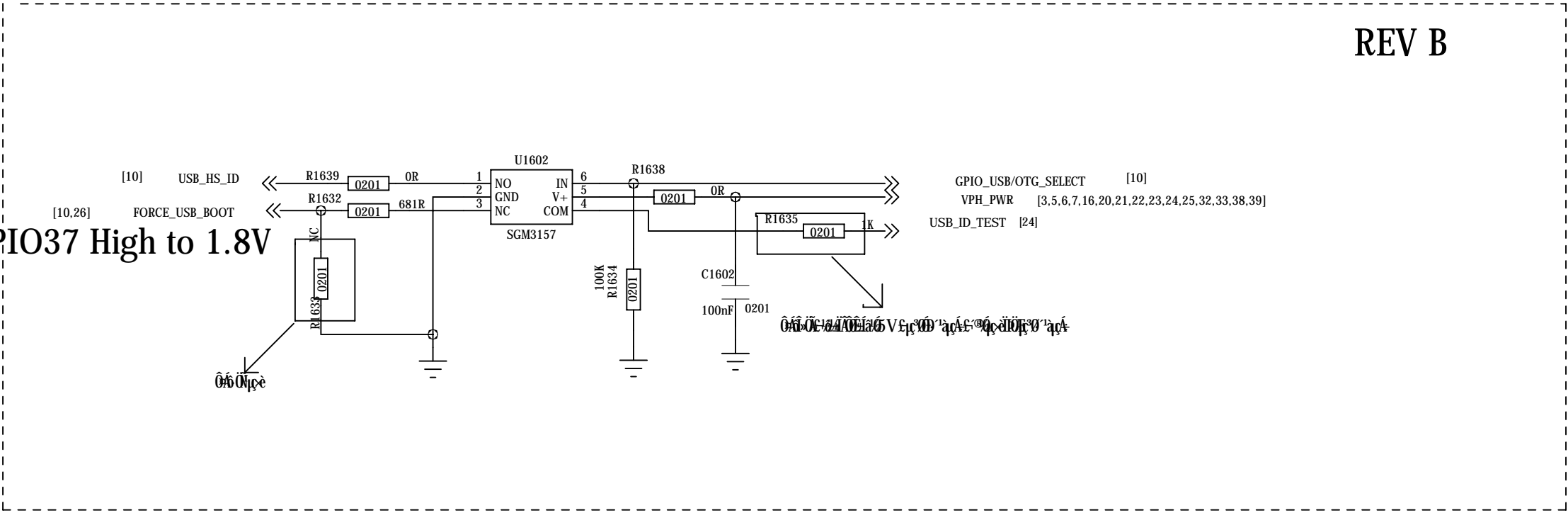
MAIN MIC+USB+SPKER



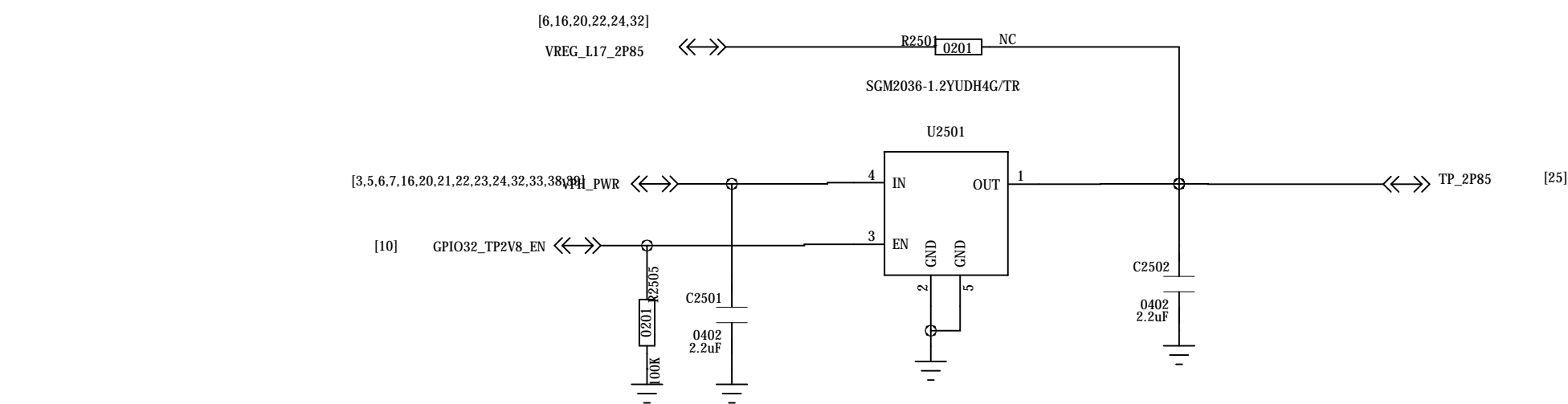
RGB LED



USB BOOT with GPIO37 High to 1.8V



REV B

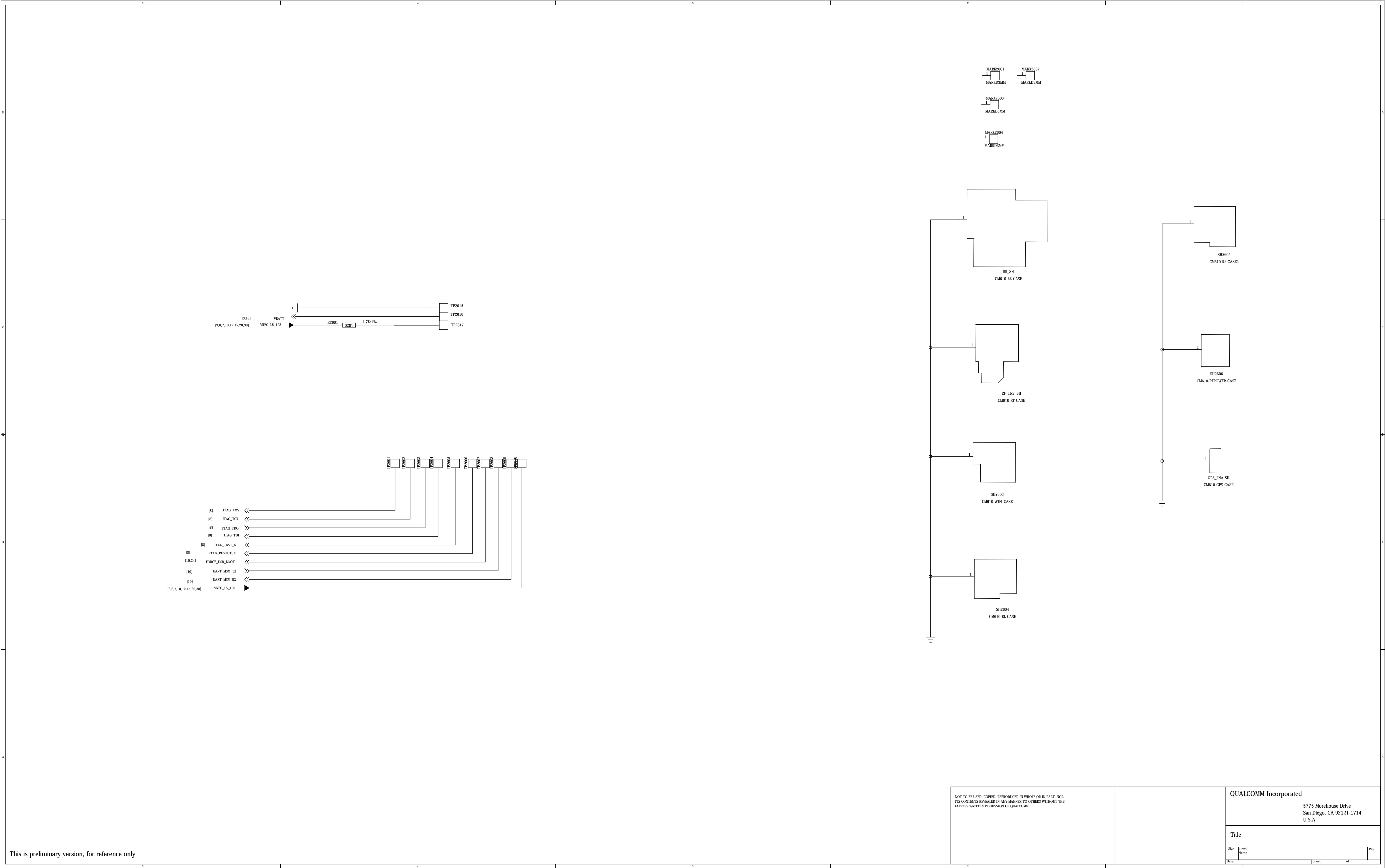


NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Size	Sheet
	Blank

Date: _____ Sheet _____ of _____



This is preliminary version, for reference only

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

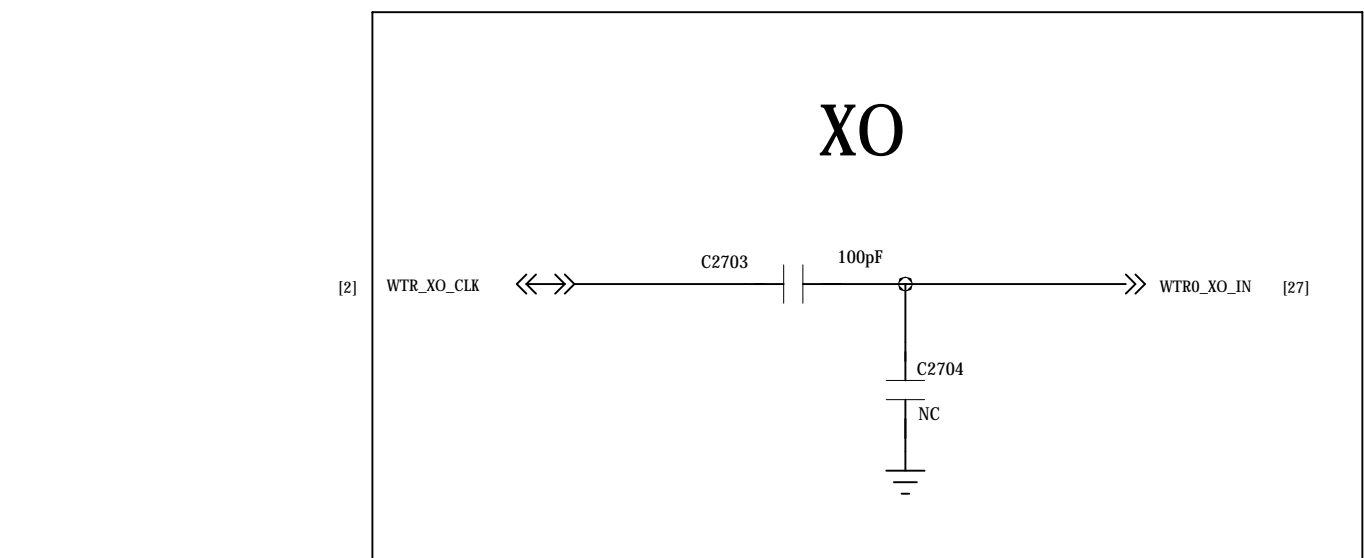
QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title

Size Sheet Name Rev

Date: Sheet of

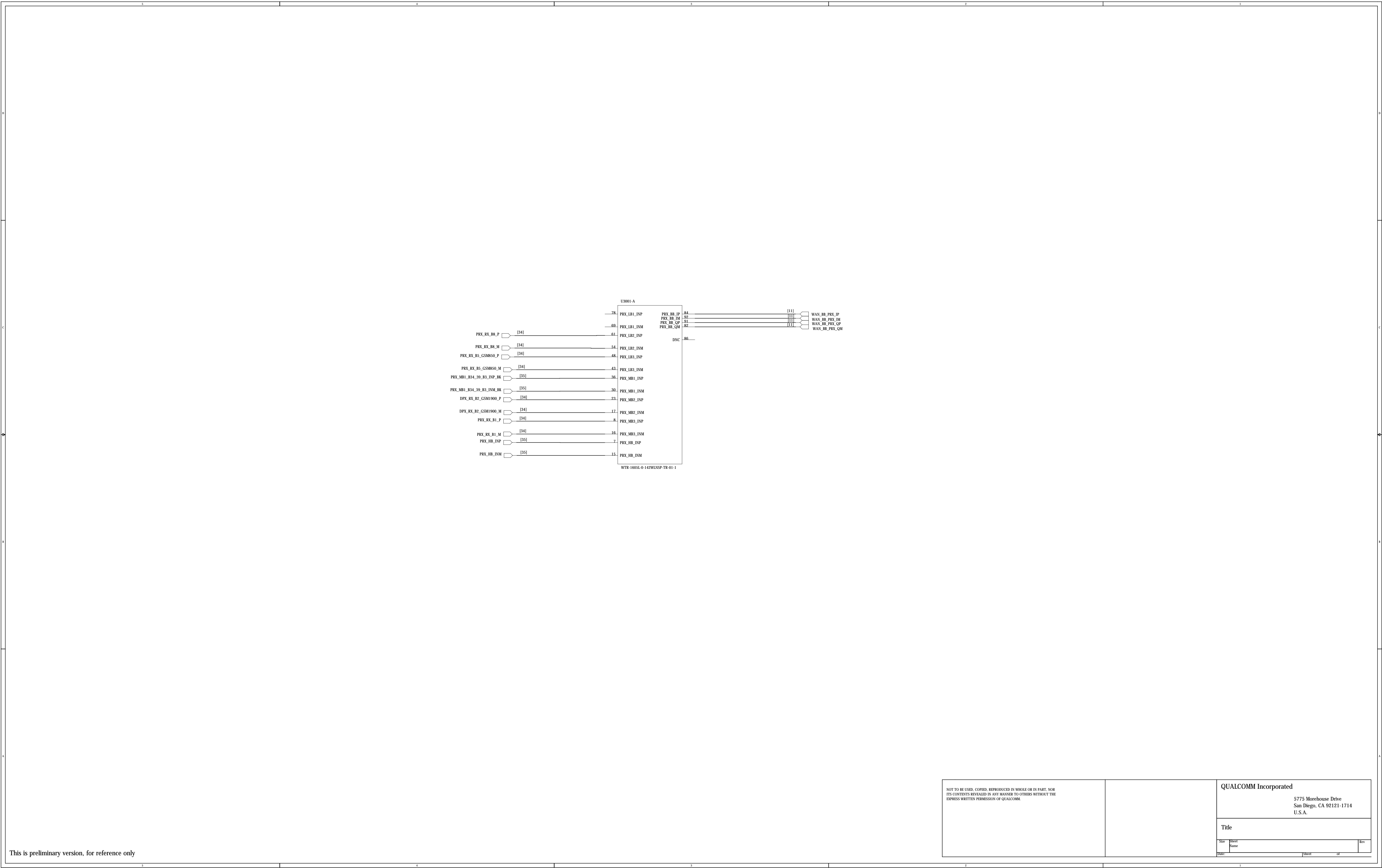


NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Size	Sheet	
------	-------	--

Date:	Sheet	of
-------	-------	----



WTR-1605L-G-142WLN5P-TR-01-1

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title

Size

Sheet

Name

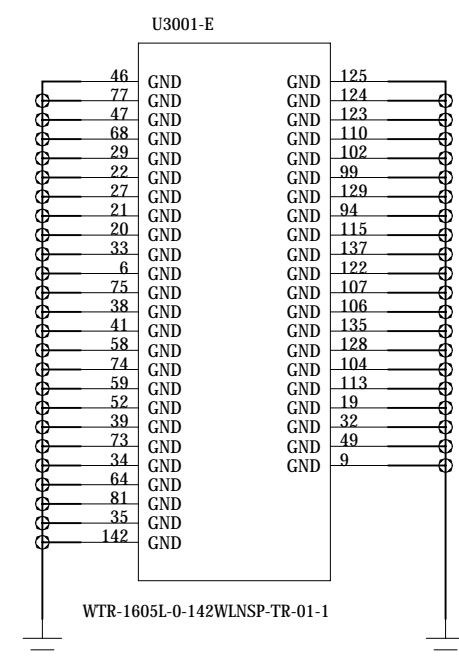
Rev

Page 1 of 1

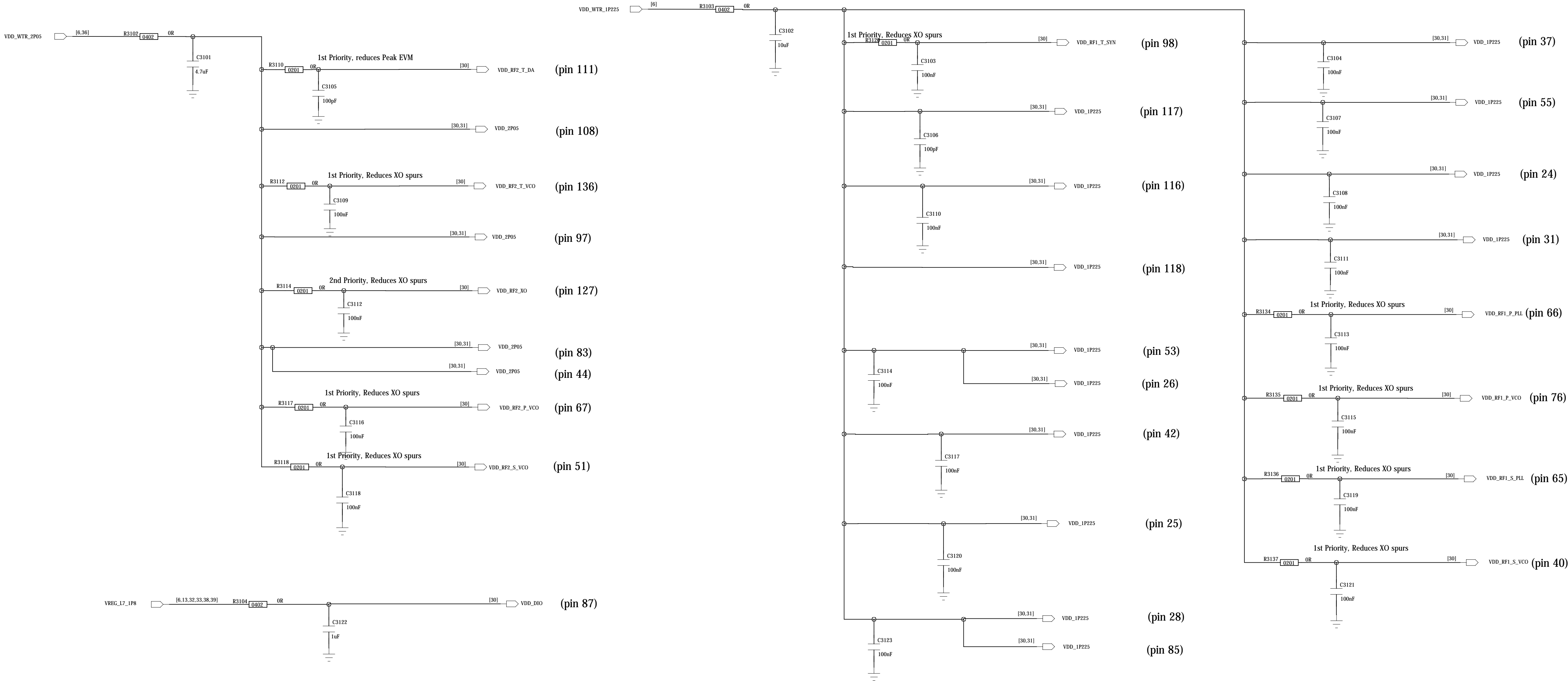
This is preliminary version, for reference only



QUALCOMM Incorporated		
5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.		
Title		
Size	Sheet Name	Rev
Date:	Sheet	of



RF1 = 1.225V
RF2 = 2.05V
VDD_DIO = 1.8V



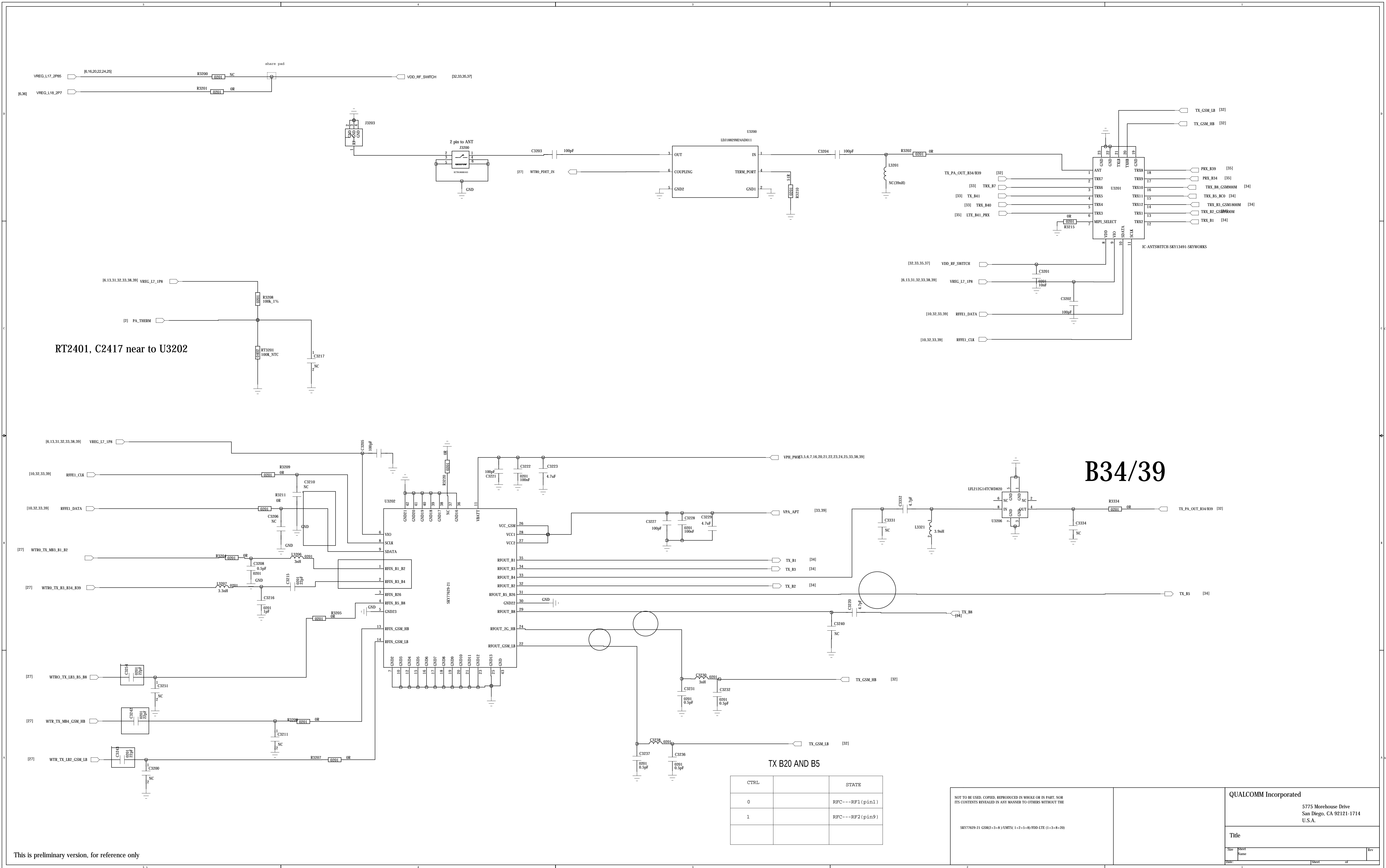
NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

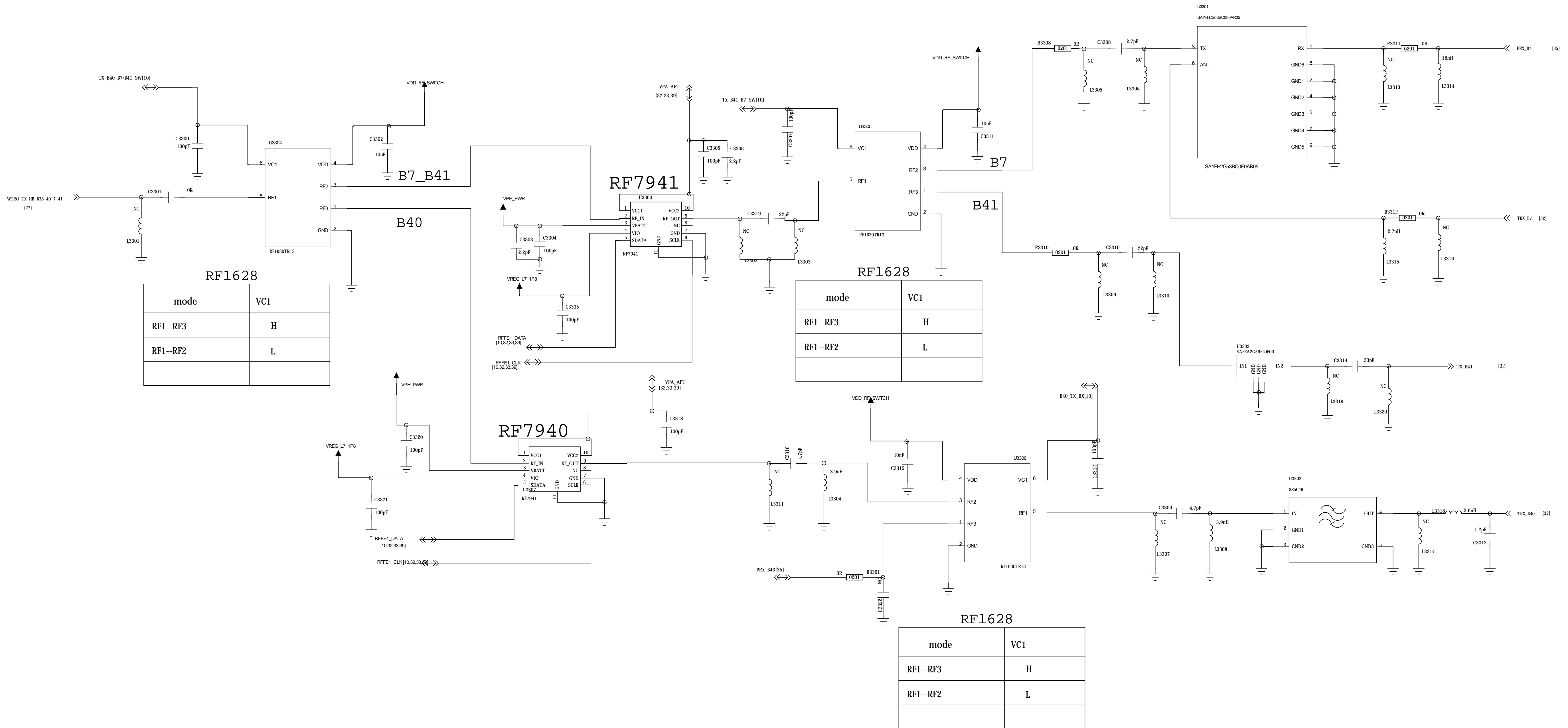
QUALCOMM Incorporated
5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title		Rev
Size	Sheet	Rev
DATE	Sheet	of

SKY77629-21 GSM(2+3+8)/UMTS(1+2+5+8)/FDD-LTE (1+3+8)



RF7940/RF7941_B7/40/41



This is preliminary version, for reference only

NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.

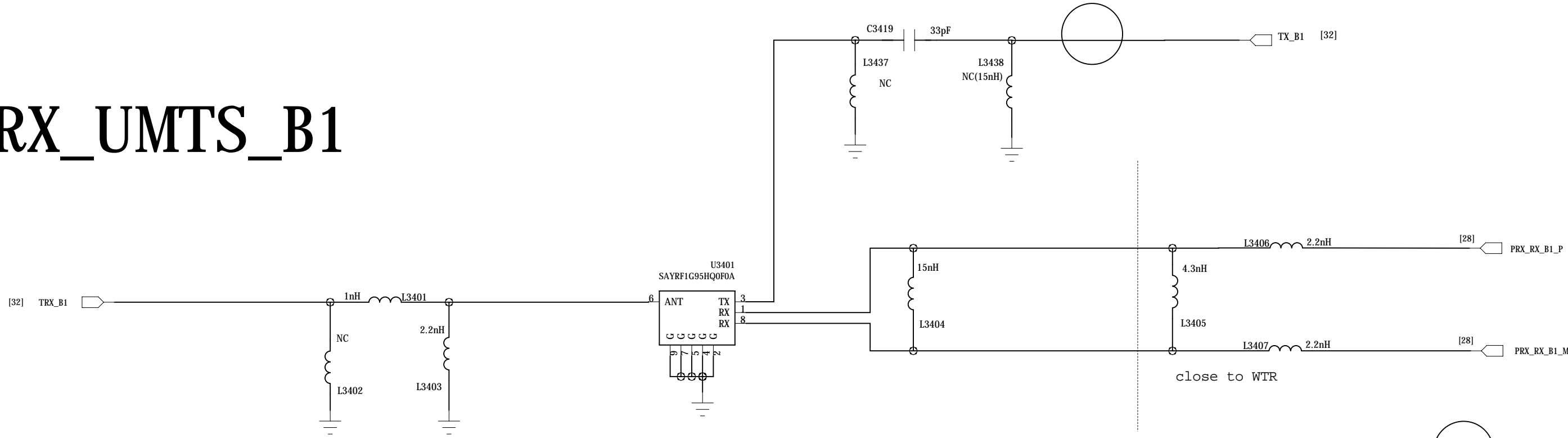
QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

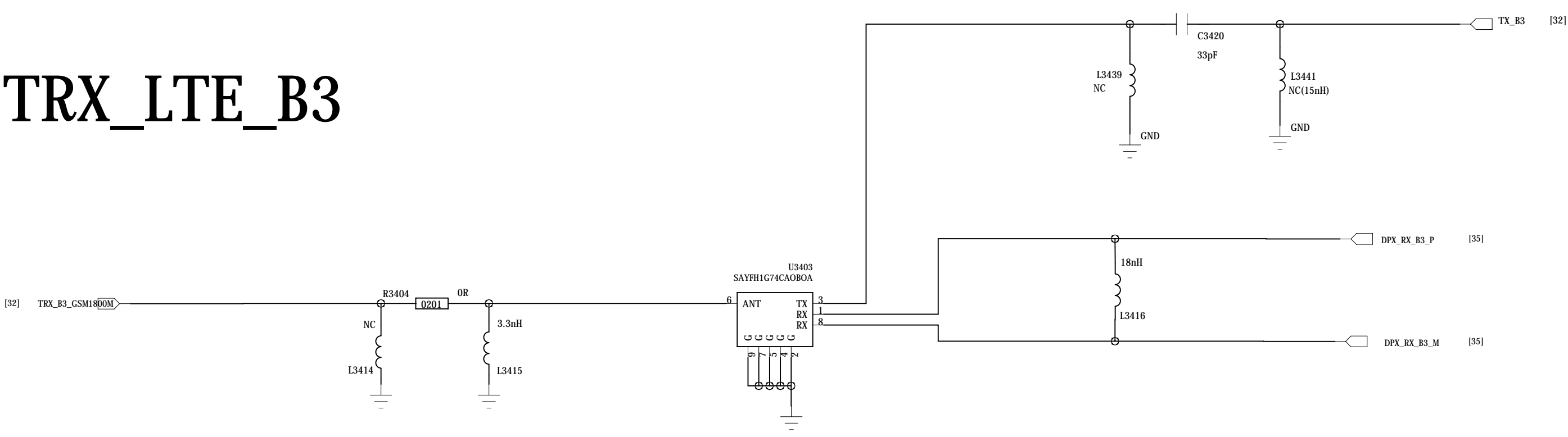
Title

Size	Sheet	Rev
	Name	
Date:	Sheet	of

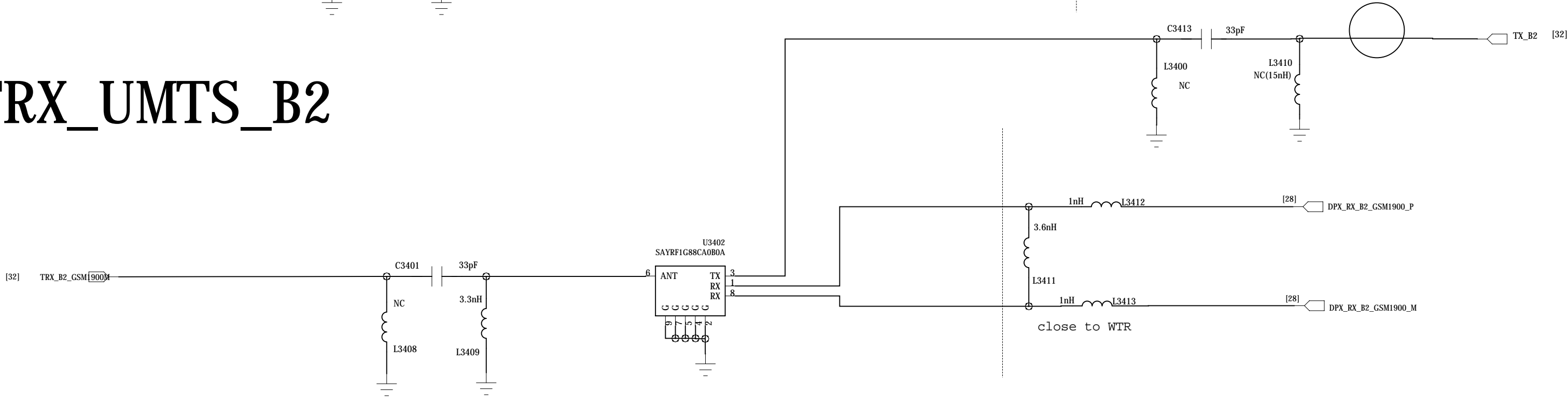
RX_UMTS_B1



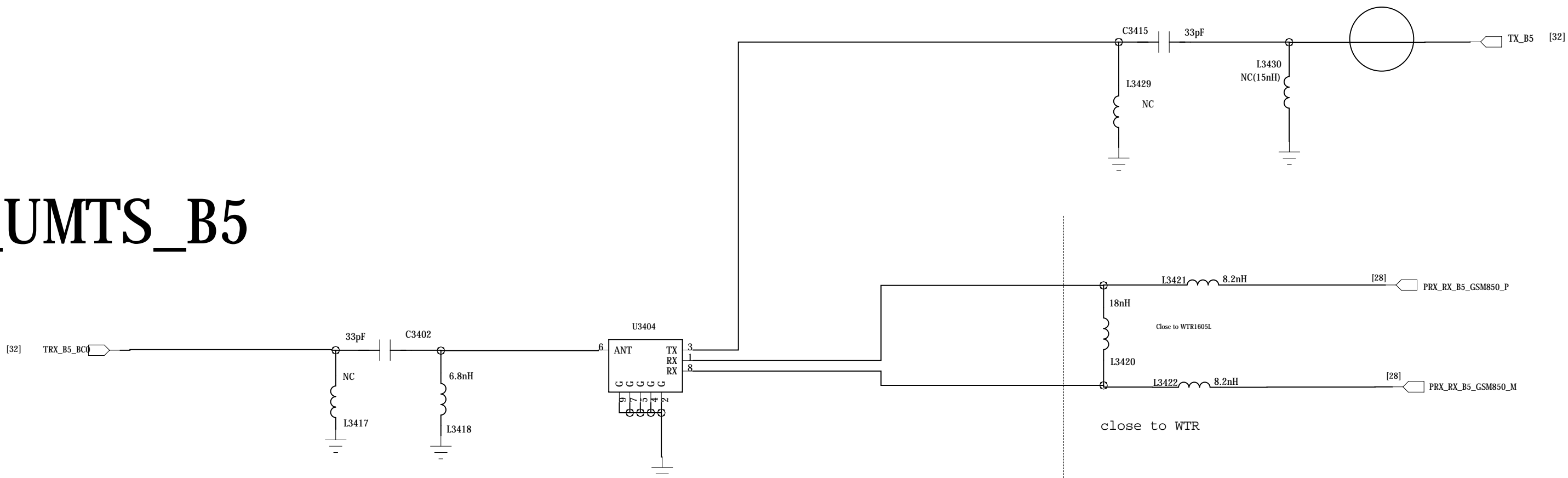
TRX_LTE_B3



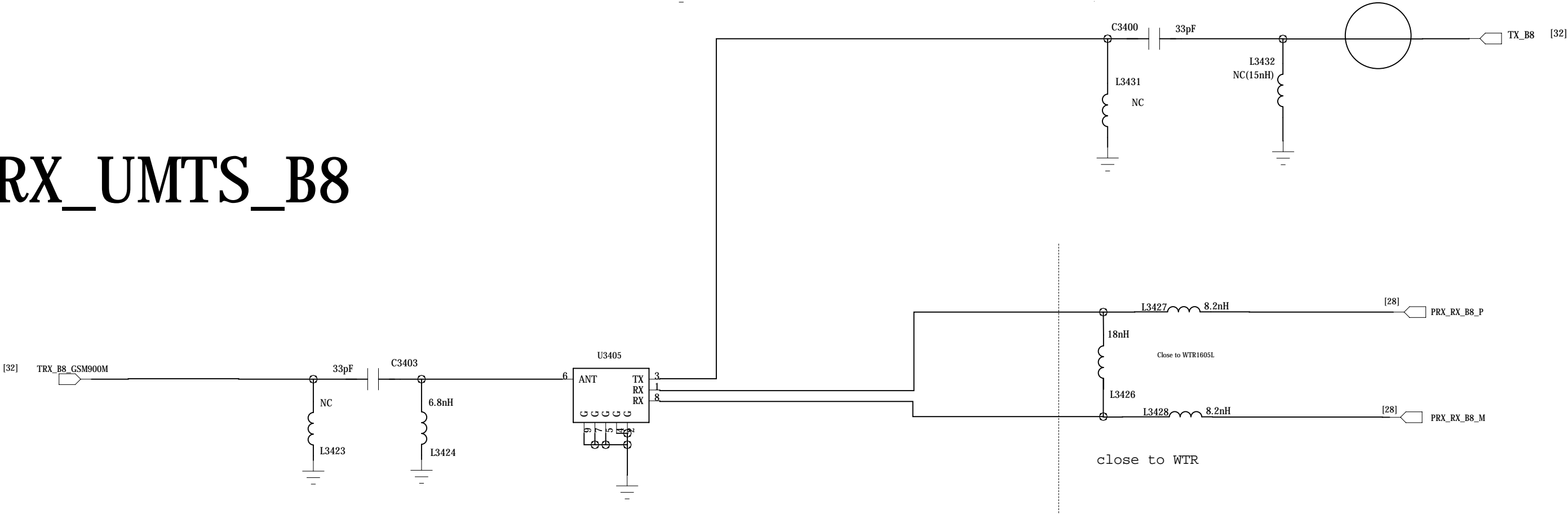
TRX_UMTS_B2



TRX_UMTS_B5

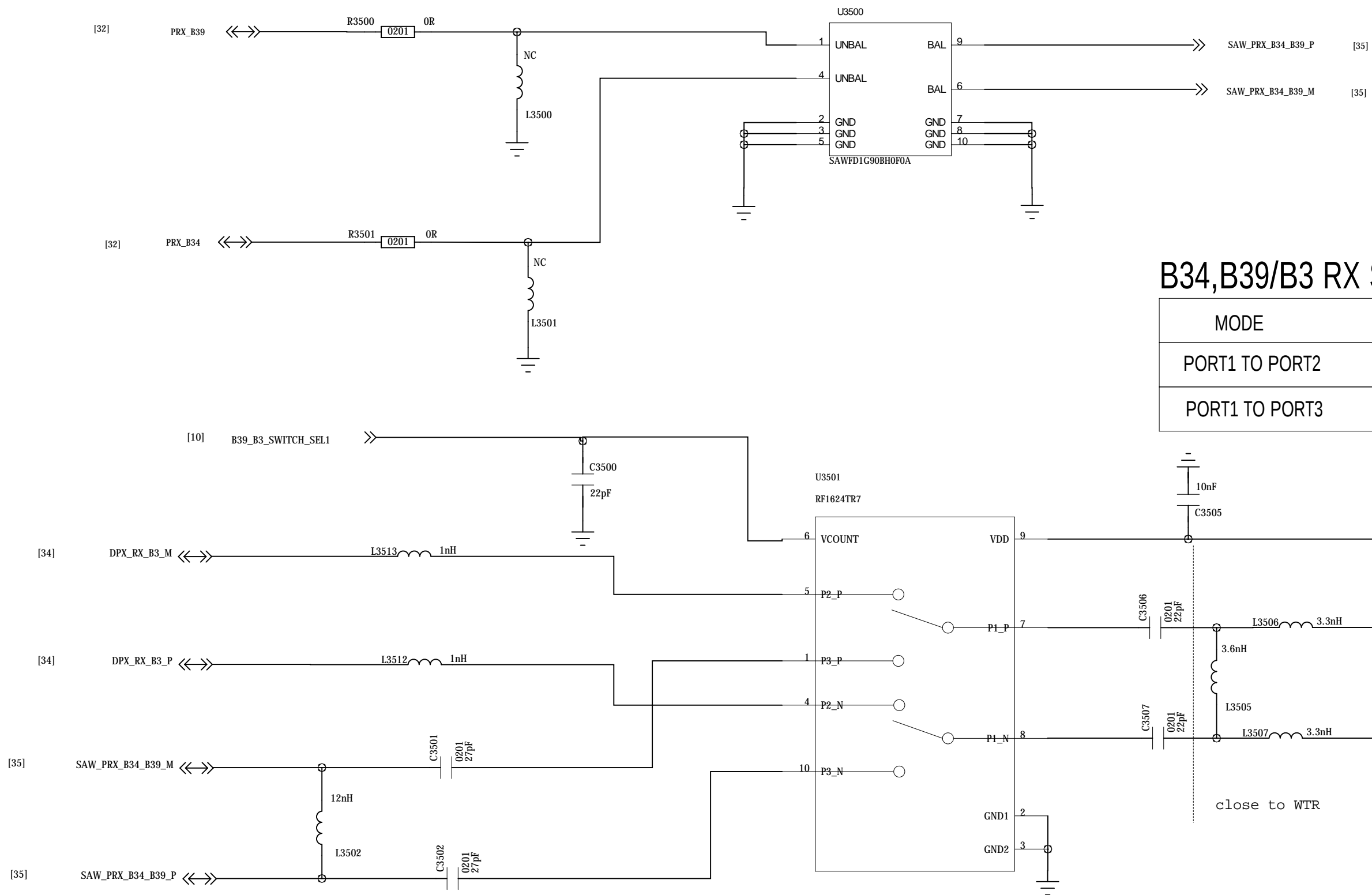


TRX_UMTS_B8



PRX_B34/B39

4/10 modif



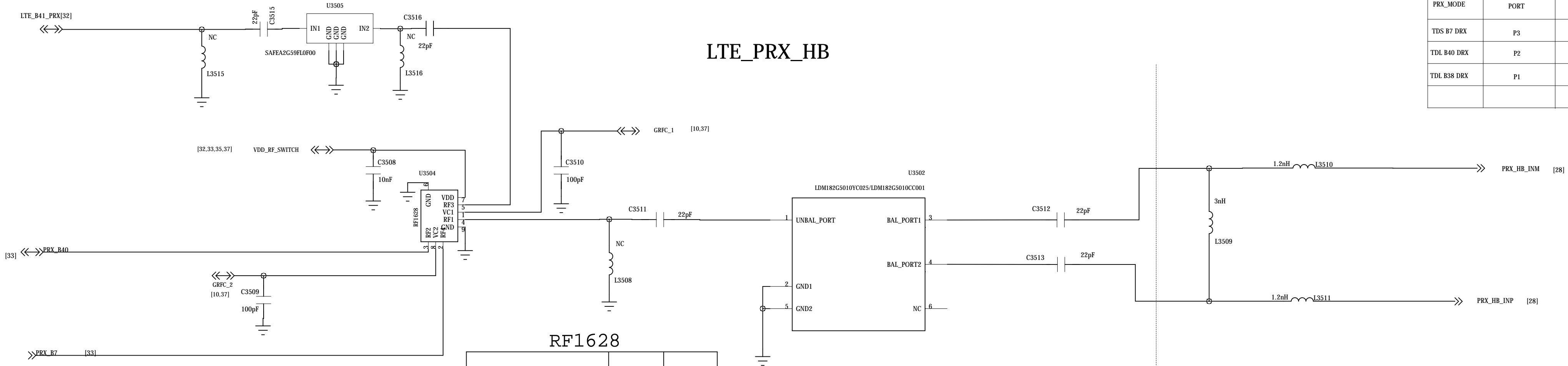
B34,B39/B3 RX Switch

MODE	B39_B3_SWITCH_SEL
PORT1 TO PORT2	L
PORT1 TO PORT3	H

PRX_B7,B38,B40,Switch Logic

PRX_MODE	PORT	GRFC_1	GRFC_2
TDS B7 DEX	P3	H	L
TDL B40 DEX	P2	L	H
TDL B38 DEX	P1	L	L

LTE_PRX_HB



RF1628

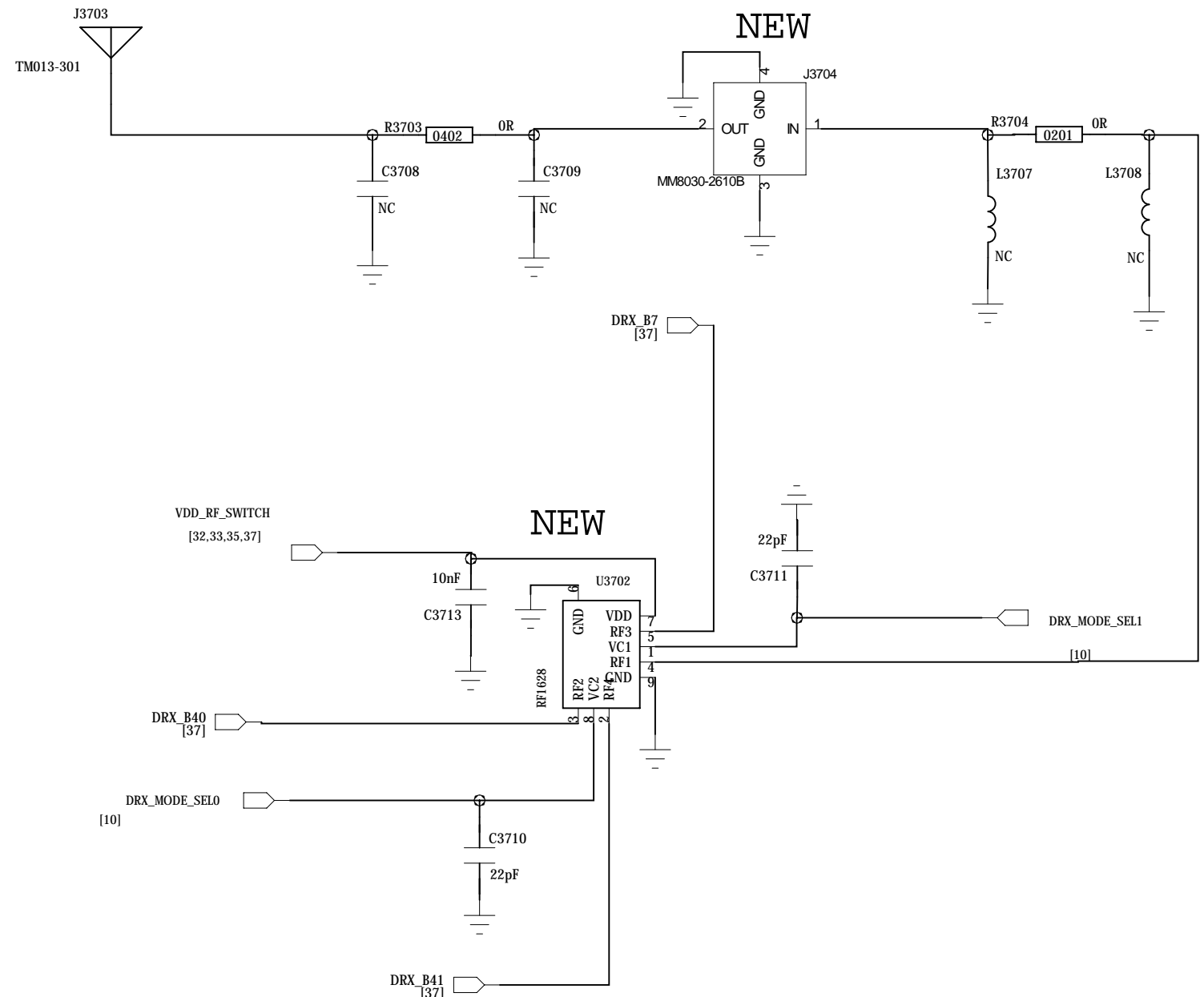
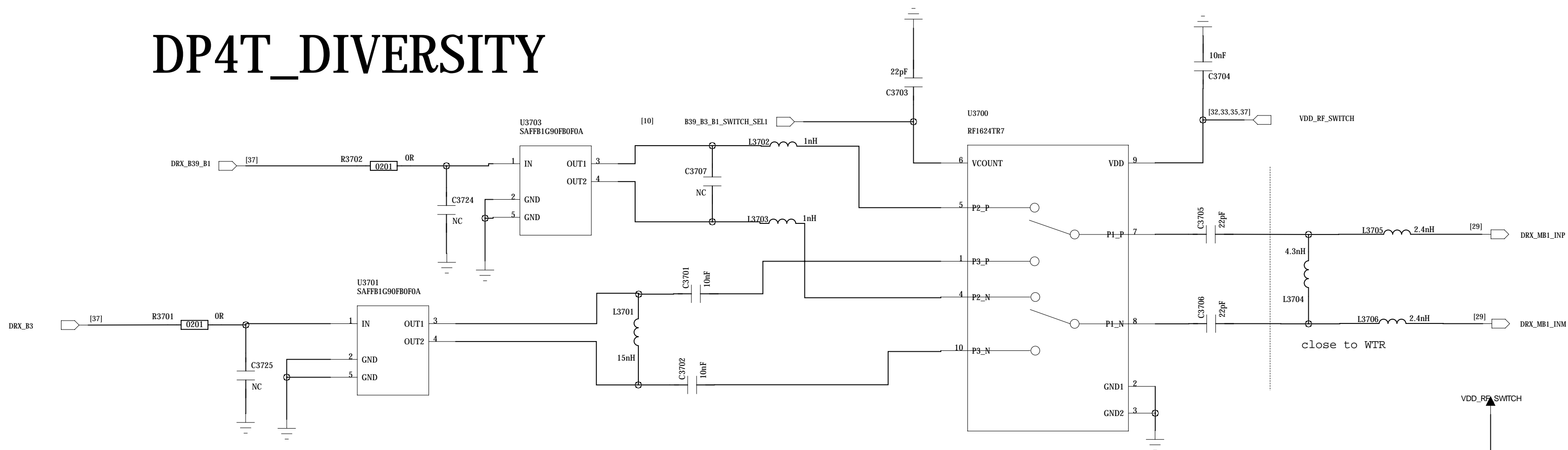
mode	VCTL1	VCTL2
RF1--RF3	L	H
RF1--RF2	H	L
RF1--RF4	H	H

BYPASS LNA&FILTER



Date: _____ Sheet _____ of _____

DP4T_DIVERSITY

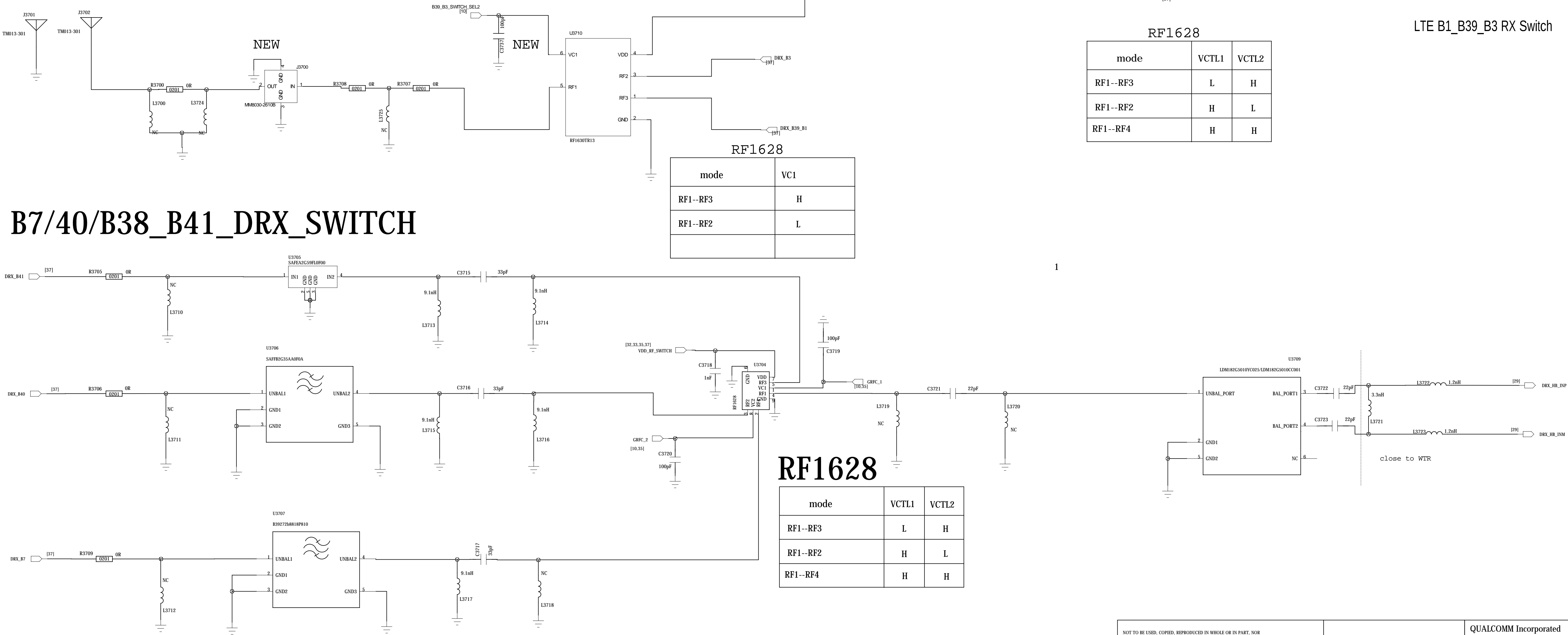


RF1628

mode	VCTL1	VCTL2
RF1--RF3	L	H
RF1--RF2	H	L
RF1--RF4	H	H

LTE B1_B39_B3 RX Switch

B7/40/B38_B41_DRX_SWITCH



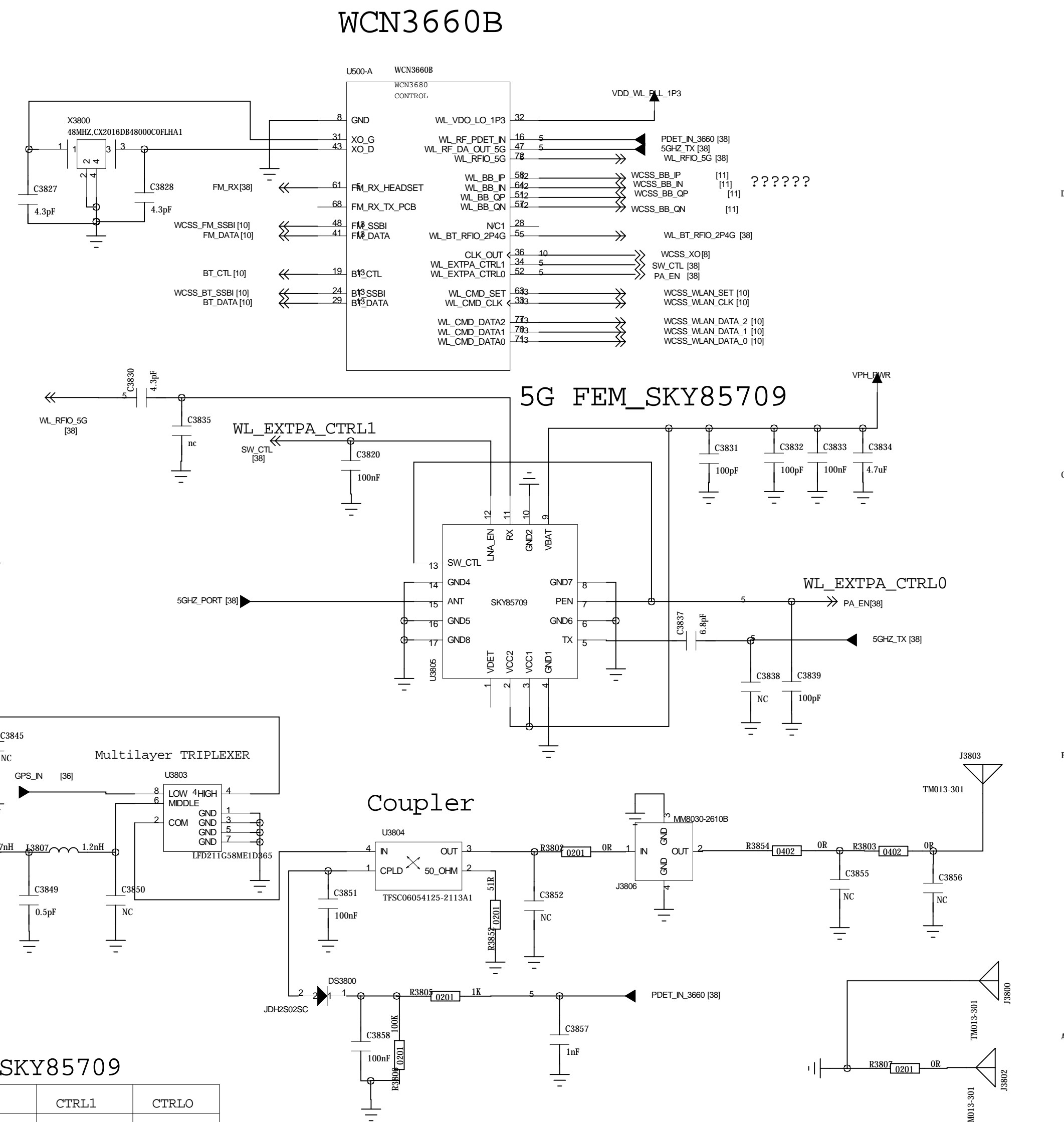
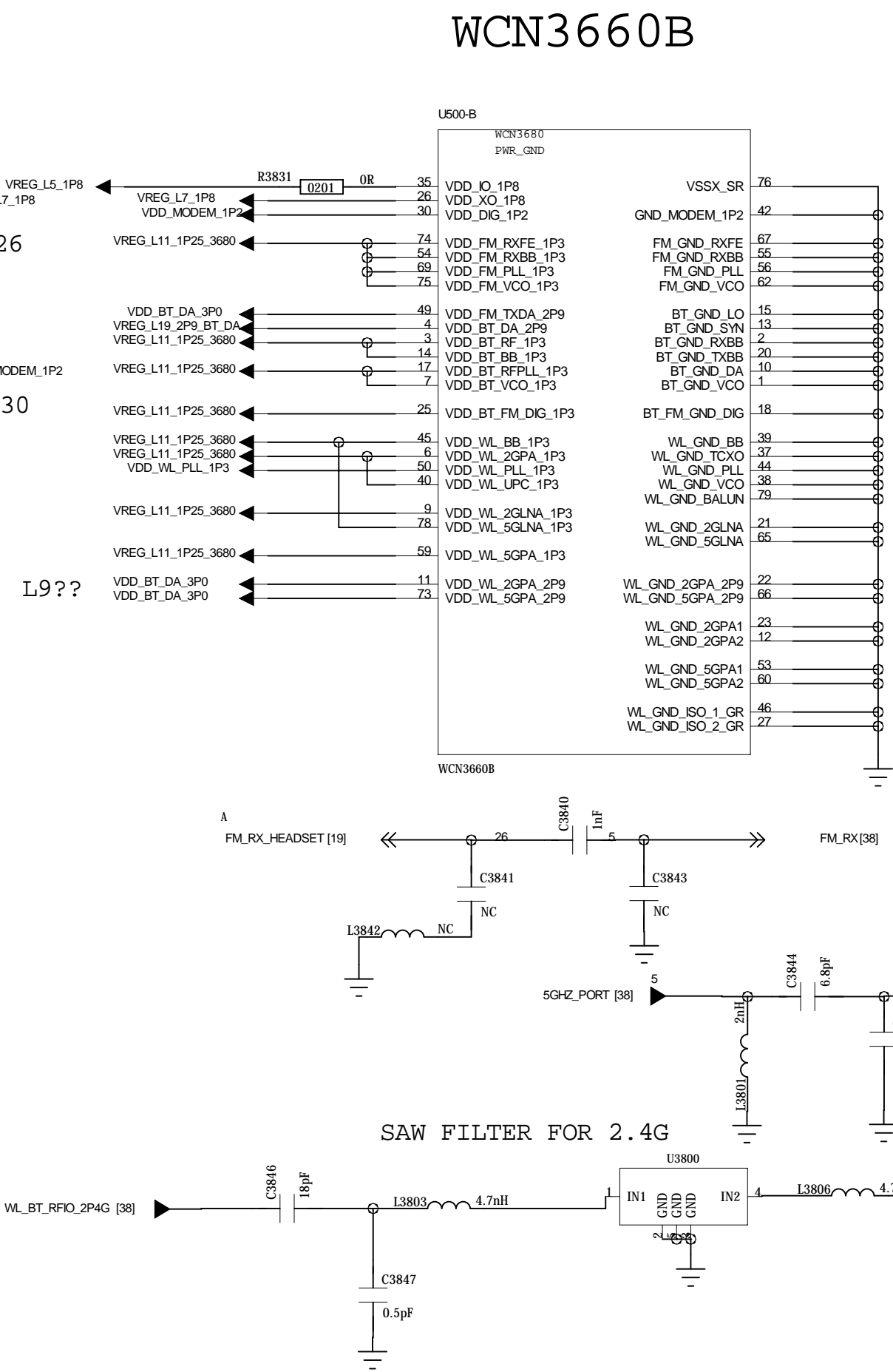
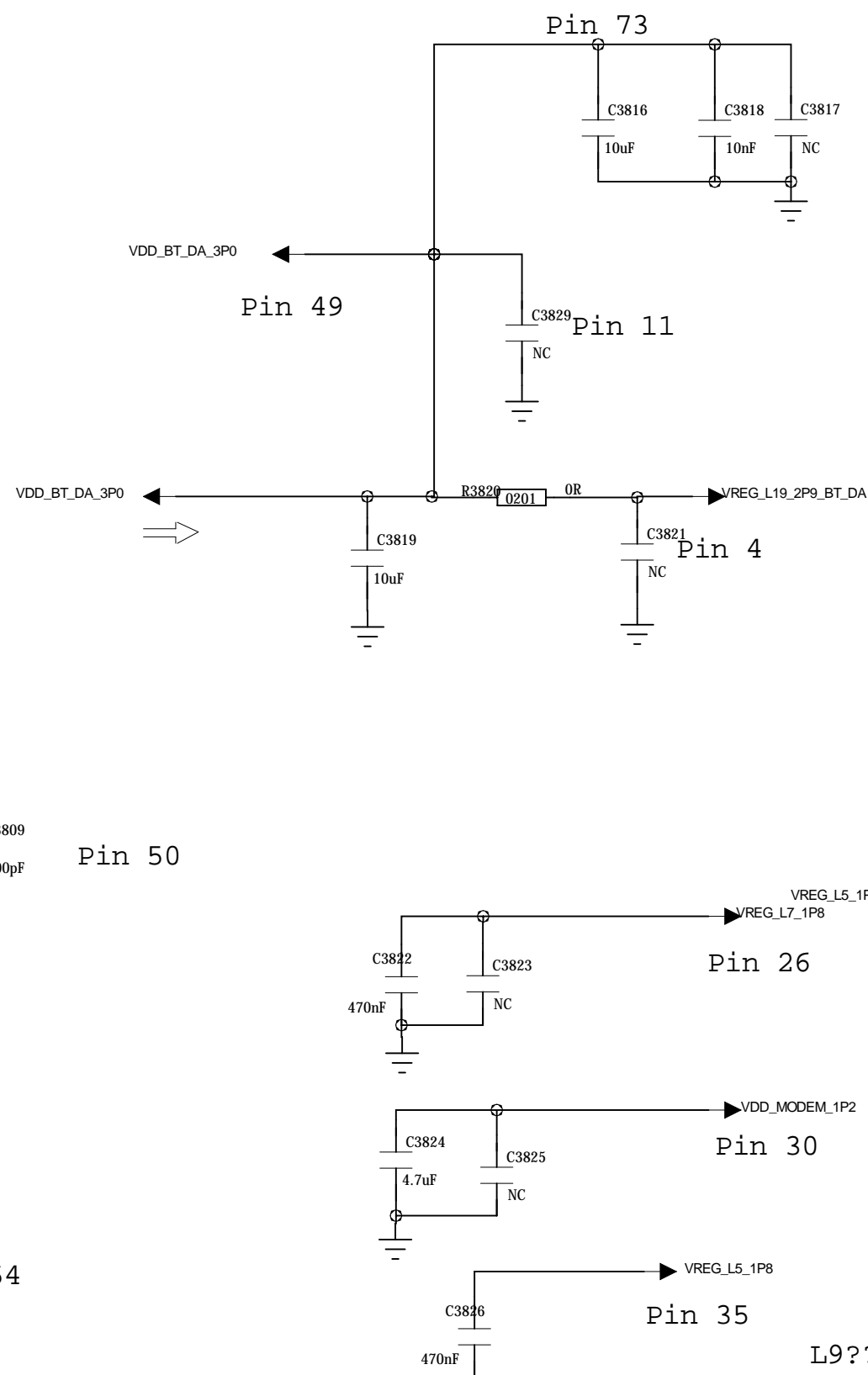
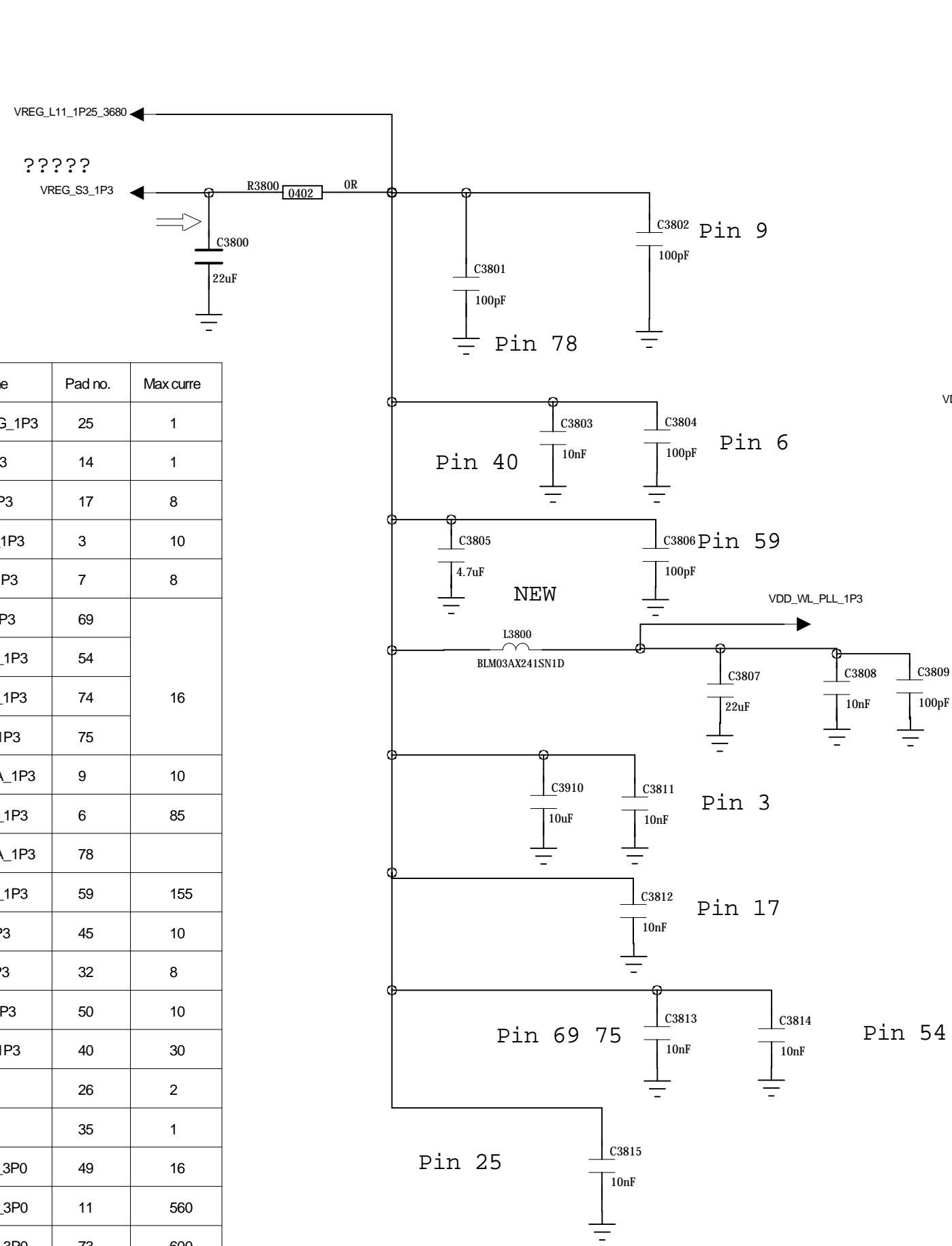
RF1628

mode	VC1
RF1--RF3	H
RF1--RF2	L

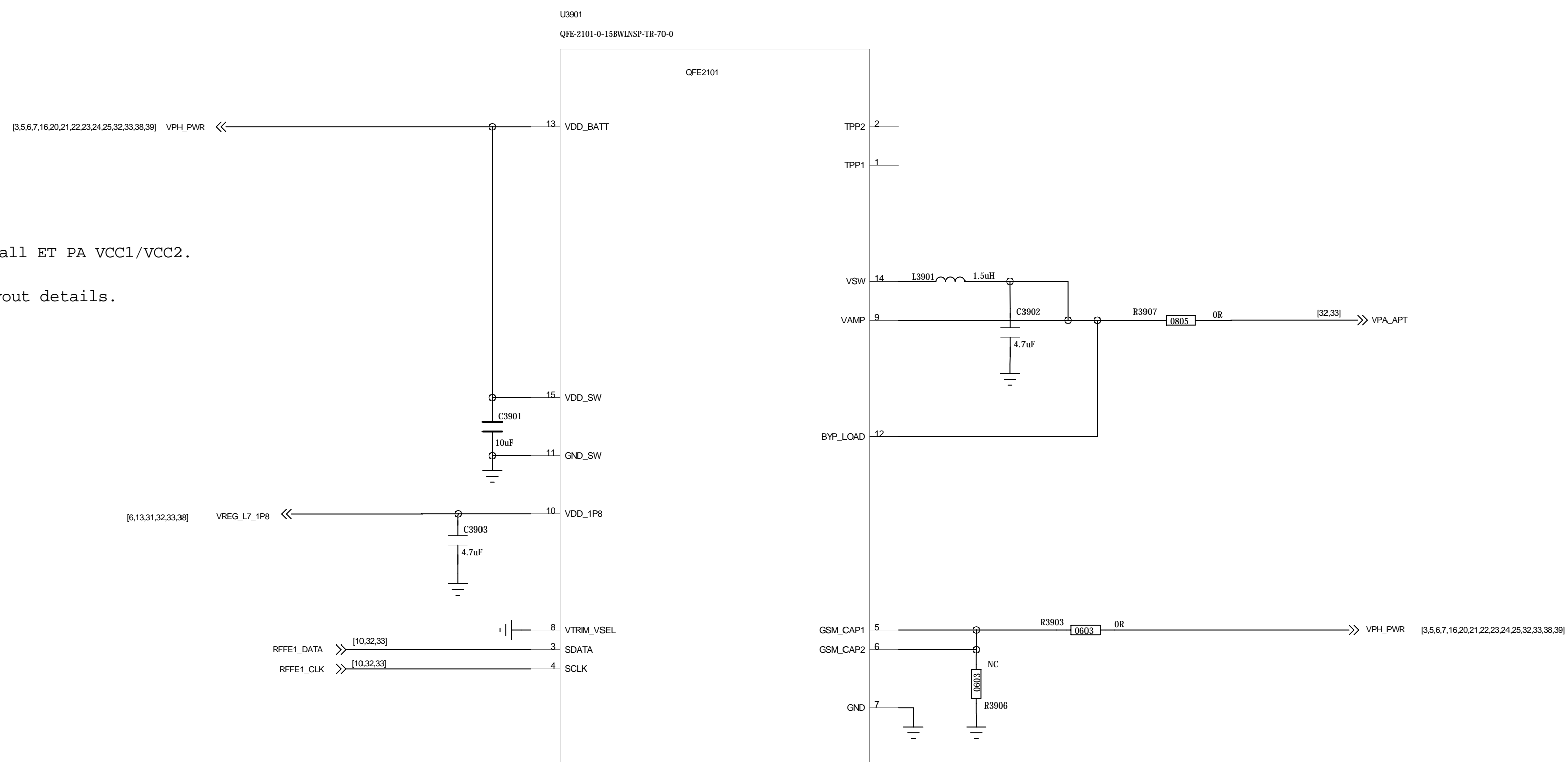
RF1628

mode	VCTL1	VCTL2
RF1--RF3	L	H
RF1--RF2	H	L
RF1--RF4	H	H

Voltage	Pad name	Pad no.	Max cure
1P3	VDD_BT_FM_DIG_1P3	25	1
	VDD_BT_BB_1P3	14	1
	VDD_BT_PLL_1P3	17	8
	VDD_BT_RXRF_1P3	3	10
	VDD_BT_VCO_1P3	7	8
	VDD_FM_PLL_1P3	69	16
	VDD_FM_RXBB_1P3	54	
	VDD_FM_RXFE_1P3	74	
	VDD_FM_VCO_1P3	75	
	VDD_WL_2GLNA_1P3	9	10
	VDD_WL_2GPA_1P3	6	85
	VDD_WL_5GLNA_1P3	78	
	VDD_WL_5GPA_1P3	59	155
	VDD_WL_BB_1P3	45	10
	VDD_WL_LO_1P3	32	8
VDD_WL_PLL_1P3	50	10	
VDD_WL_UPC_1P3	40	30	
1P8	VDD_XO_1P8	26	2
	VDD_ID_1P8	35	1
	VDD_FM_TXDA_3P0	49	16
3P0	VDD_WL_2GPA_3P0	11	560
	VDD_WL_5GPA_3P0	73	600
	VDD_BT_TXRF_3P0	4	45
1P2	VDD_DIG_1P2	30	4



MODE	CTRL1	CTRL0
5G_RX	HIGH	LOW
5G_TX	LOW	HIGH
WLAN_OFF	LOW	LOW



<p>NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM.</p>		<p>QUALCOMM Incorporated</p> <p>5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.</p>									
		<table border="1"> <tr> <td colspan="3">Title</td> </tr> <tr> <td>Size</td> <td>Sheet Name</td> <td>Rev</td> </tr> <tr> <td>Date</td> <td>Sheet</td> <td>of</td> </tr> </table>	Title			Size	Sheet Name	Rev	Date	Sheet	of
Title											
Size	Sheet Name	Rev									
Date	Sheet	of									

0822 change list

1; c-DELETE DC block;C3214/C3219/C3418/C3412/C3414

1;cDELETE TX_R5 matching closed PA;C3274/L3273/L3276