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GPIOS</td><td></td><td></td></tr><tr><td>24</td><td>24</td><td>SENSORS</td><td></td><td></td><td>69</td><td>69</td><td>TRANSCIEVER0/1: POWER</td><td></td><td></td></tr><tr><td>25</td><td>25</td><td>B2B FILTERS: UTAH</td><td></td><td></td><td>70</td><td>70</td><td>TRANSCIEVER0/1: TX PORTS</td><td></td><td></td></tr><tr><td>26</td><td>26</td><td>CAMERA:STROBE DRIVER</td><td></td><td></td><td>71</td><td>71</td><td>TRANSCIEVER0/1: PRX PORTS</td><td><SYNC_MASTER71></td><td><SYNC_DATE71></td></tr><tr><td>27</td><td>27</td><td>Accessory: Buck Circuit</td><td></td><td><SYNC_DATE27></td><td>72</td><td>72</td><td>RECEIVE MATCHING</td><td><SYNC_MASTER72></td><td><SYNC_DATE72></td></tr><tr><td>28</td><td>28</td><td>TRINITY:FF SPECIFIC</td><td></td><td></td><td>73</td><td>73</td><td>LOWER ANTENNA & COUPLERS</td><td><SYNC_MASTER73></td><td><SYNC_DATE73></td></tr><tr><td>29</td><td>29</td><td>B2B:FOREHEAD</td><td></td><td></td><td>74</td><td>74</td><td>DIVERSITY RECEIVE 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FLEX</td><td></td><td></td><td></td><td><CSA_PAGE86></td><td></td><td><SYNC_MASTER86></td><td><SYNC_DATE86></td></tr><tr><td>42</td><td>42</td><td>spare</td><td></td><td></td><td></td><td><CSA_PAGE87></td><td></td><td><SYNC_MASTER87></td><td><SYNC_DATE87></td></tr><tr><td>43</td><td>43</td><td>spare</td><td></td><td></td><td></td><td><CSA_PAGE88></td><td></td><td><SYNC_MASTER88></td><td><SYNC_DATE88></td></tr><tr><td>44</td><td>44</td><td>B2B FILTERS: RIGHT BUTTON FLEX</td><td></td><td></td><td></td><td><CSA_PAGE89></td><td></td><td><SYNC_MASTER89></td><td><SYNC_DATE89></td></tr><tr><td>45</td><td>45</td><td>B2B FF SPECIFIC</td><td></td><td></td><td></td><td><CSA_PAGE90></td><td></td><td><SYNC_MASTER90></td><td><SYNC_DATE90></td></tr></table>																PAGE	<CSA>	CONTENTS	SYNC	DATE	PAGE	<CSA>	CONTENTS	SYNC	DATE	1	1	TABLE OF CONTENTS	<SYNC_MASTER1>	<SYNC_DATE1>	46	46	LARGE FORM FACTOR SPECIFIC		<SYNC_DATE46>	2	2	SYSTEM:BOM TABLES	<SYNC_MASTER2>	<SYNC_DATE2>	47	47	I2C MAP: AP, 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CLOCKS			20	20	SYSTEM POWER:PMU (3/3)			65	65	PMU: SWITCHERS AND LDOS			21	21	SYSTEM POWER:CHARGER			66	66	BASEBAND: POWER2			22	22	SYSTEM POWER:BATTERY CONN			67	67	BASEBAND: CONTROL			23	23	SYSTEM POWER:BOOST			68	68	BASEBAND GPIOS			24	24	SENSORS			69	69	TRANSCIEVER0/1: POWER			25	25	B2B FILTERS: UTAH			70	70	TRANSCIEVER0/1: TX PORTS			26	26	CAMERA:STROBE DRIVER			71	71	TRANSCIEVER0/1: PRX PORTS	<SYNC_MASTER71>	<SYNC_DATE71>	27	27	Accessory: Buck Circuit		<SYNC_DATE27>	72	72	RECEIVE MATCHING	<SYNC_MASTER72>	<SYNC_DATE72>	28	28	TRINITY:FF SPECIFIC			73	73	LOWER ANTENNA & COUPLERS	<SYNC_MASTER73>	<SYNC_DATE73>	29	29	B2B:FOREHEAD			74	74	DIVERSITY RECEIVE ASM'S	<SYNC_MASTER74>	<SYNC_DATE74>	30	30	B2B:NEVADA		<SYNC_DATE30>	75	75	DIVERSITY RECEIVE LNA'S	d		31	31	AUDIO:CALTRA CODEC (1/2)			76	76	UPPER ANTENNA FEEDS			32	32	AUDIO:CALTRA CODEC (2/2)			77	77	PMU: ET MODULATOR			33	33	AUDIO:SPEAKER AMP 2			78	<CSA_PAGE78>	TEST POINTS & BOOT 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25	25	B2B FILTERS: UTAH			70	70	TRANSCIEVER0/1: TX PORTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
26	26	CAMERA:STROBE DRIVER			71	71	TRANSCIEVER0/1: PRX PORTS	<SYNC_MASTER71>	<SYNC_DATE71>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
27	27	Accessory: Buck Circuit		<SYNC_DATE27>	72	72	RECEIVE MATCHING	<SYNC_MASTER72>	<SYNC_DATE72>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
28	28	TRINITY:FF SPECIFIC			73	73	LOWER ANTENNA & COUPLERS	<SYNC_MASTER73>	<SYNC_DATE73>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
29	29	B2B:FOREHEAD			74	74	DIVERSITY RECEIVE ASM'S	<SYNC_MASTER74>	<SYNC_DATE74>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
30	30	B2B:NEVADA		<SYNC_DATE30>	75	75	DIVERSITY RECEIVE LNA'S	d																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
31	31	AUDIO:CALTRA CODEC (1/2)			76	76	UPPER ANTENNA FEEDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
32	32	AUDIO:CALTRA CODEC (2/2)			77	77	PMU: ET MODULATOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
33	33	AUDIO:SPEAKER AMP 2			78	<CSA_PAGE78>	TEST POINTS & BOOT CONFIG	<SYNC_MASTER78>	<SYNC_DATE78>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
34	34	AUDIO:SPEAKER AMP 1			79	<CSA_PAGE79>	TDD TRANSMIT	<SYNC_MASTER79>	<SYNC_DATE79>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
35	35	ARC:DRIVER			80	<CSA_PAGE80>	FDD TRANSMIT	<SYNC_MASTER80>	<SYNC_DATE80>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
36	36	ARC:MAGGIE			81	<CSA_PAGE81>	ICEFALL, SIM, DEBUG_CONN	<SYNC_MASTER81>	<SYNC_DATE81>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
37	37	DISPLAY & MESA:POWER				<CSA_PAGE82>		<SYNC_MASTER82>	<SYNC_DATE82>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
38	38	B2B:ORB & MESA				<CSA_PAGE83>		<SYNC_MASTER83>	<SYNC_DATE83>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
39	39	B2B FILTERS: DISPLAY & TOUCH				<CSA_PAGE84>		<SYNC_MASTER84>	<SYNC_DATE84>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
40	40	TRISTAR 2				<CSA_PAGE85>		<SYNC_MASTER85>	<SYNC_DATE85>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
41	41	B2B:DOCK FLEX				<CSA_PAGE86>		<SYNC_MASTER86>	<SYNC_DATE86>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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43	43	spare				<CSA_PAGE88>		<SYNC_MASTER88>	<SYNC_DATE88>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
44	44	B2B FILTERS: RIGHT BUTTON FLEX				<CSA_PAGE89>		<SYNC_MASTER89>	<SYNC_DATE89>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-00482	1	SCH_MLB,D11-12	SCH	CRITICAL	?
820-00229	1	PCBF,MLB,D11-12	PCB	CRITICAL	?

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D11 EEEE CALLOUTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-6838	1	EEEE CODE FOR 639-01812	EEEE_GY2T	CRITICAL	EEEE_D11_BEST_1P
825-6838	1	EEEE CODE FOR 639-01813	EEEE_GY2V	CRITICAL	EEEE_D11_SUPREME_1P
825-6838	1	EEEE CODE FOR 639-01814	EEEE_GY2W	CRITICAL	EEEE_D11_EXTREME_1P
825-6838	1	EEEE CODE FOR 639-02118	EEEE_H3RN	CRITICAL	EEEE_D11_BEST_ROW
825-6838	1	EEEE CODE FOR 639-02119	EEEE_H3RP	CRITICAL	EEEE_D11_SUPREME_ROW
825-6838	1	EEEE CODE FOR 639-02140	EEEE_H3RQ	CRITICAL	EEEE_D11_EXTREME_ROW
825-6838	1	EEEE CODE FOR 639-02460	EEEE_H8C1	CRITICAL	EEEE_D11_BEST_CH
825-6838	1	EEEE CODE FOR 639-02465	EEEE_H8CK	CRITICAL	EEEE_D11_SUPREME_CH
825-6838	1	EEEE CODE FOR 639-02462	EEEE_H8C3	CRITICAL	EEEE_D11_EXTREME_CH

CAYMAN DDR Alternates

339S00258	339S00257	ALTERNATE	ALL	DDR-S, 3G, B1

CAYMAN OMIT TABLE

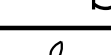
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2.2uF CAP Alts

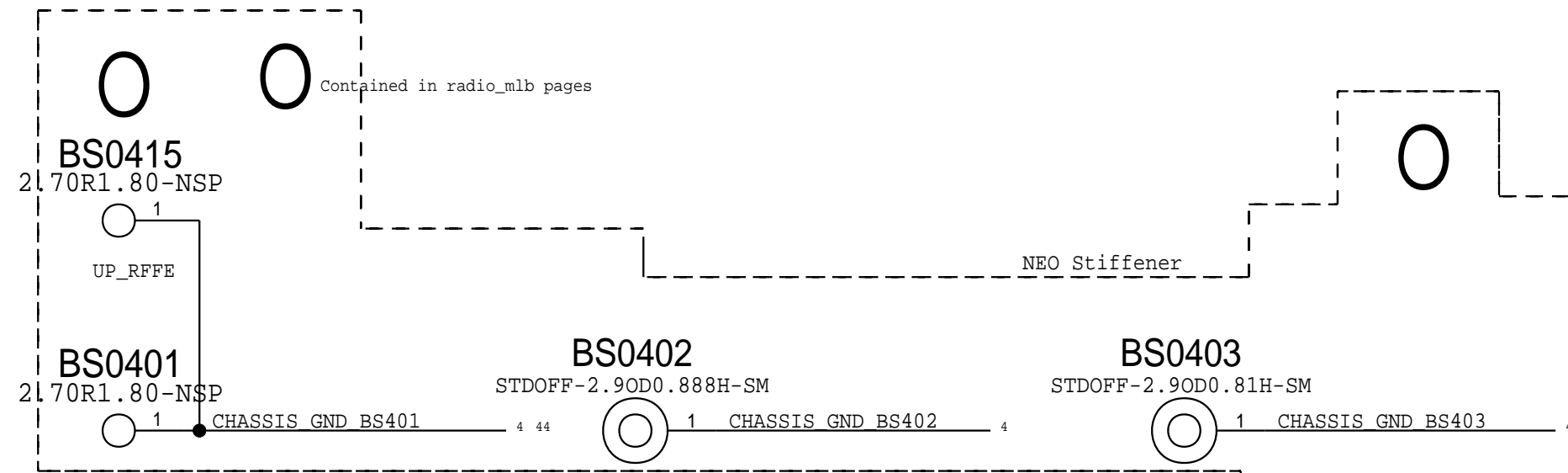
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138S00049	138S00032	ALTERNATE	ALL	CAP, CER, RES, 2, 20P, 204K, 3V, 20A, 1X000BA
138S0831	138S00032	ALTERNATE	ALL	CAP, CER, RES, 2, 20P, 20A, 4, 2V, 20A, M0830A

SIP Alternates

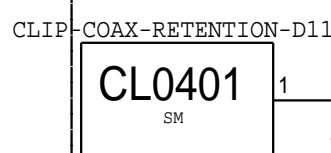
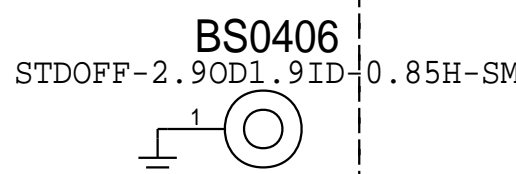
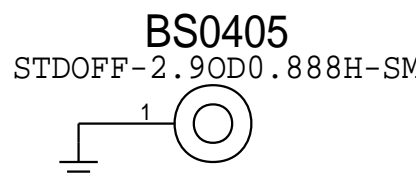
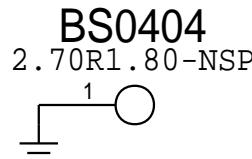
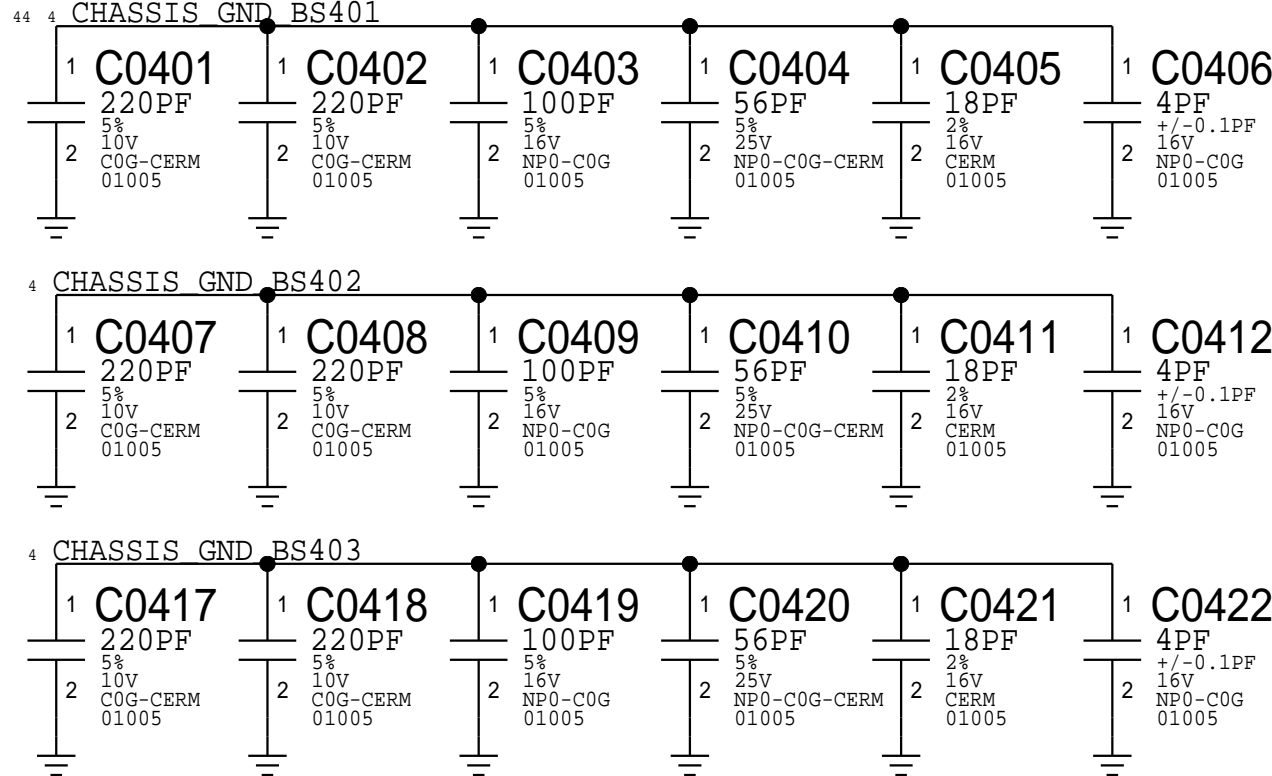
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339M00008	339M00002	ALTERNATE	ALL	NEO,STATS

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Current as of D11 MCO 056-01585 rev. 63

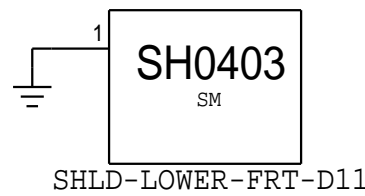
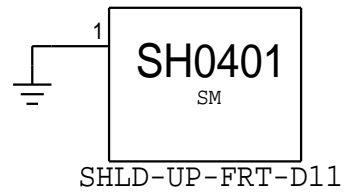


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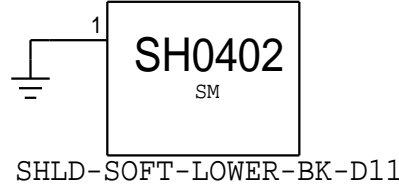
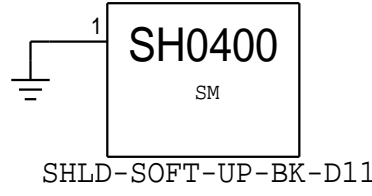


NORTH_SCREW_EXPOSED

Front Shields

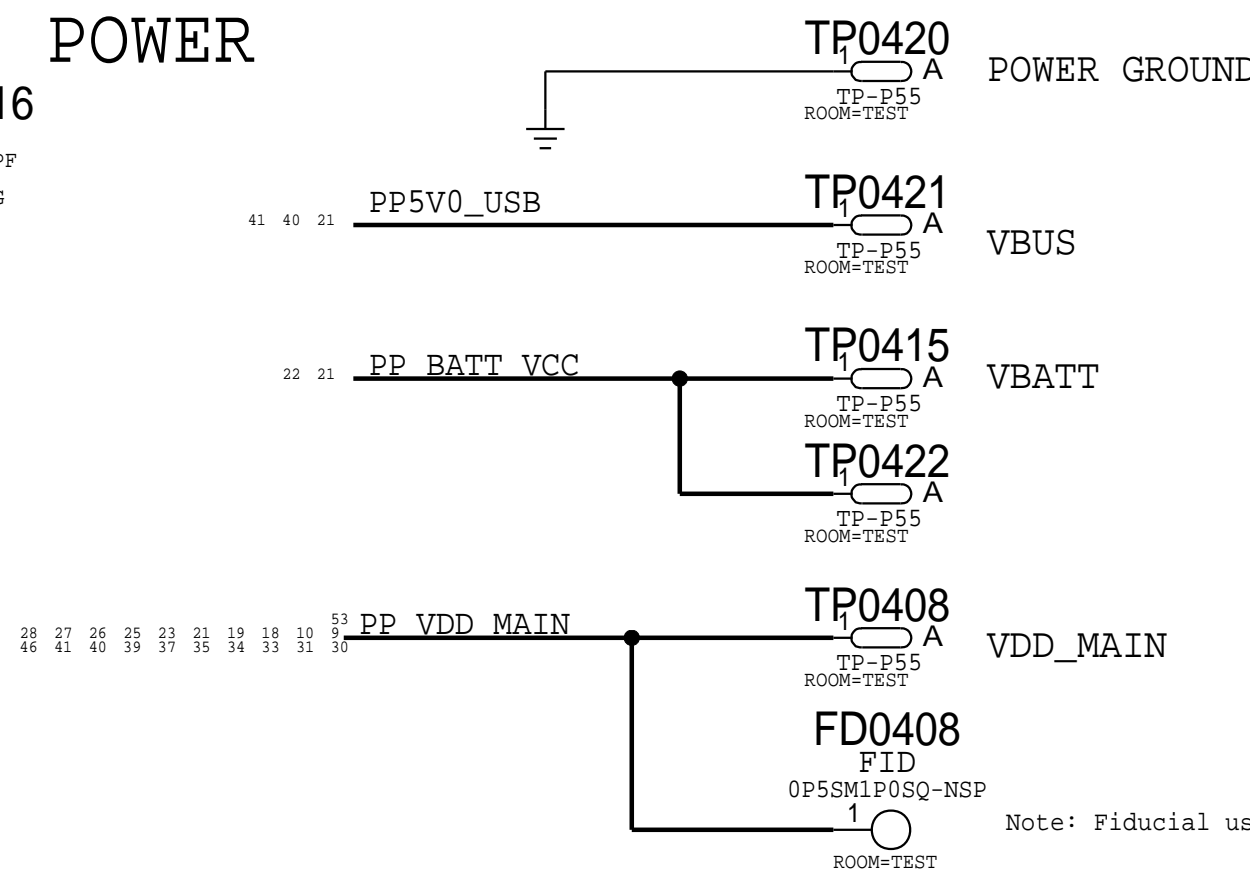


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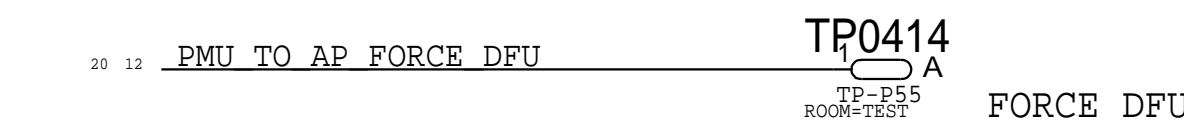


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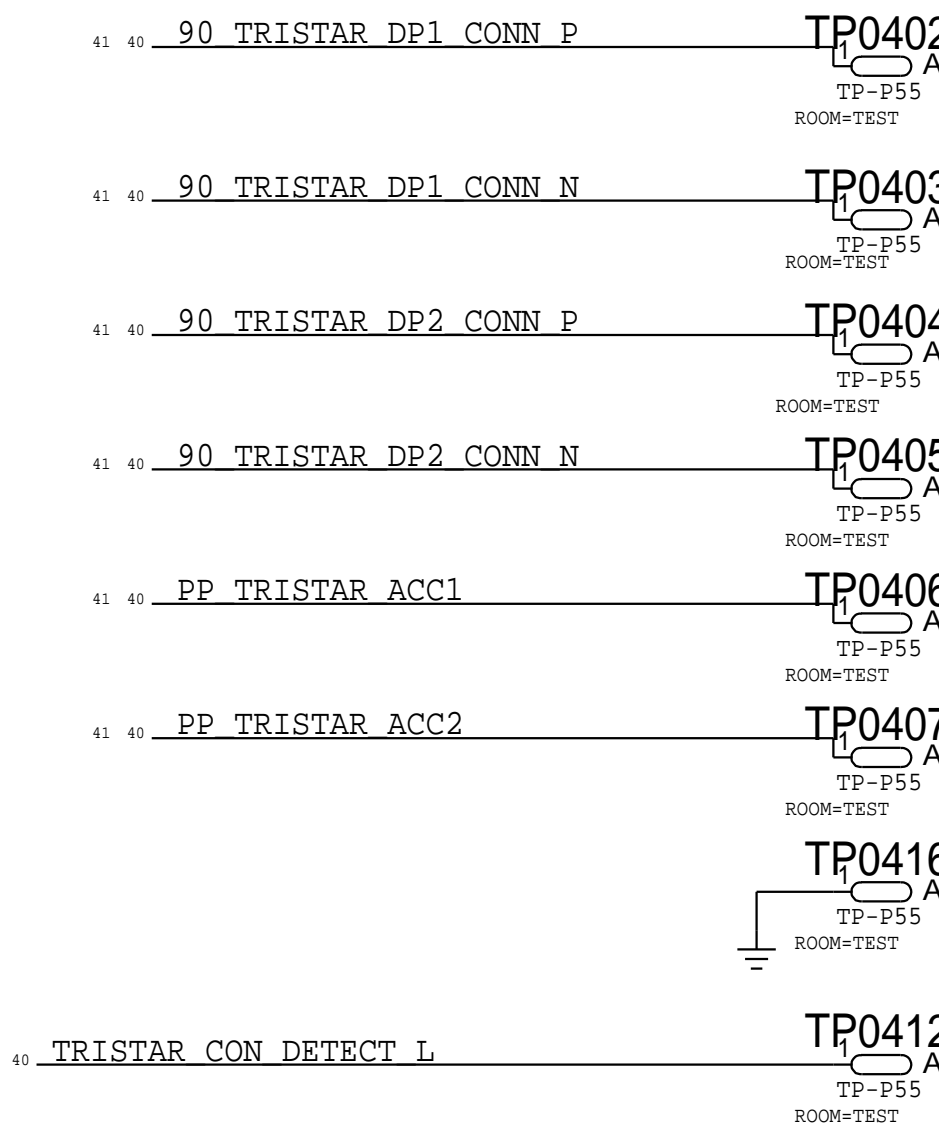
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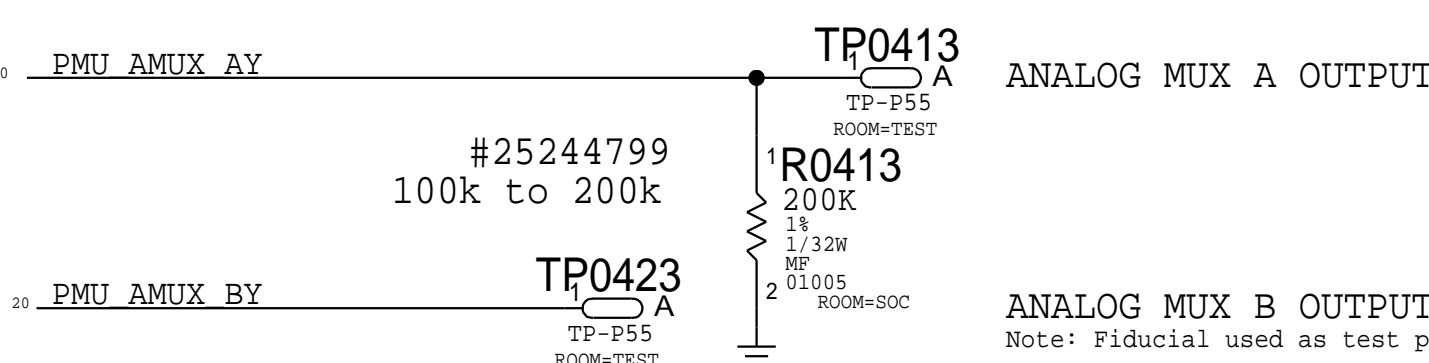
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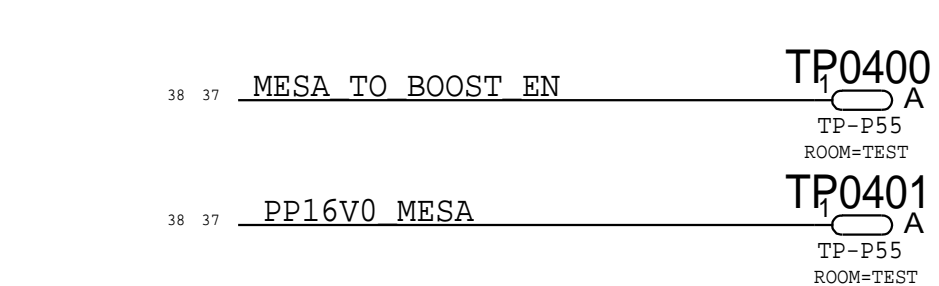
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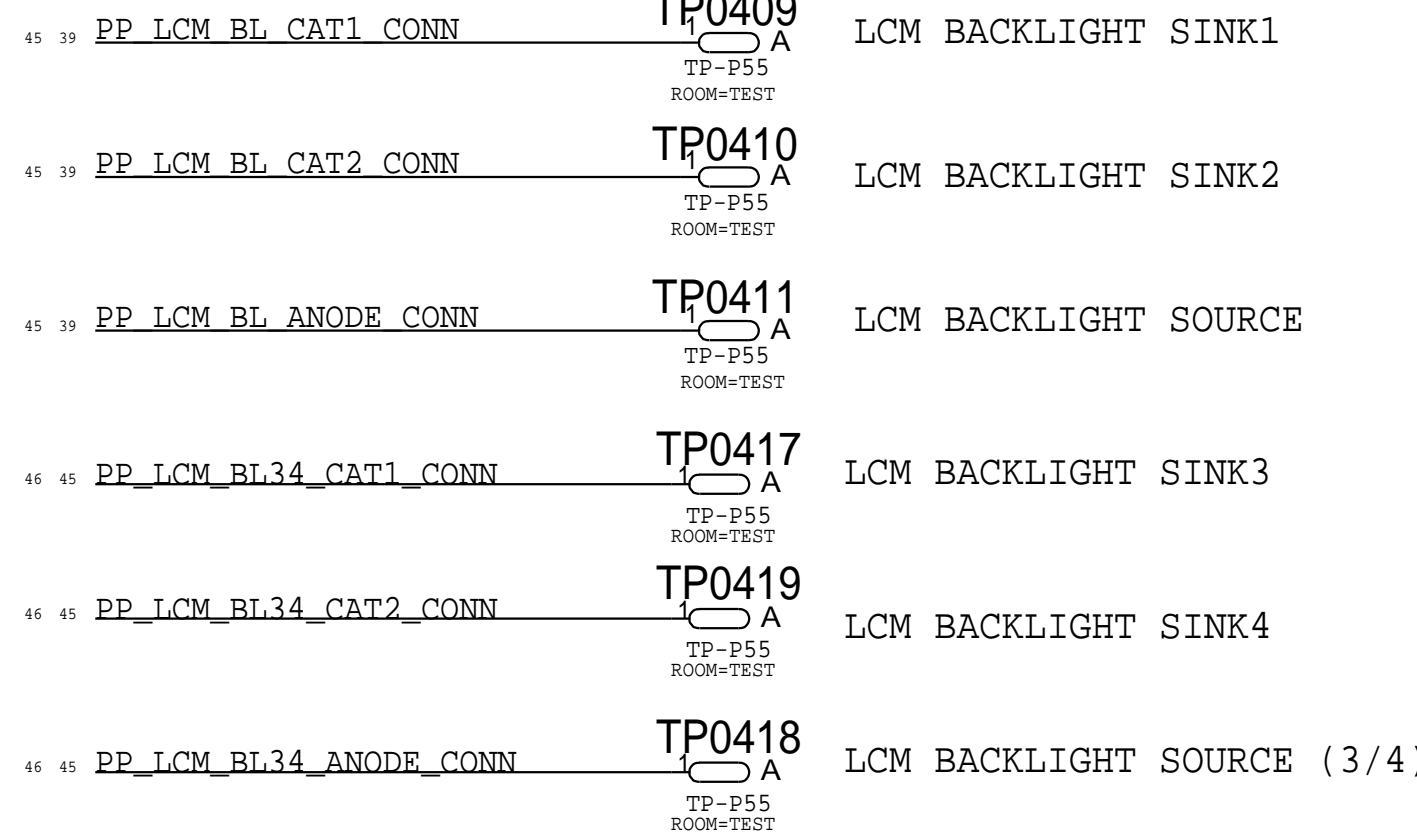
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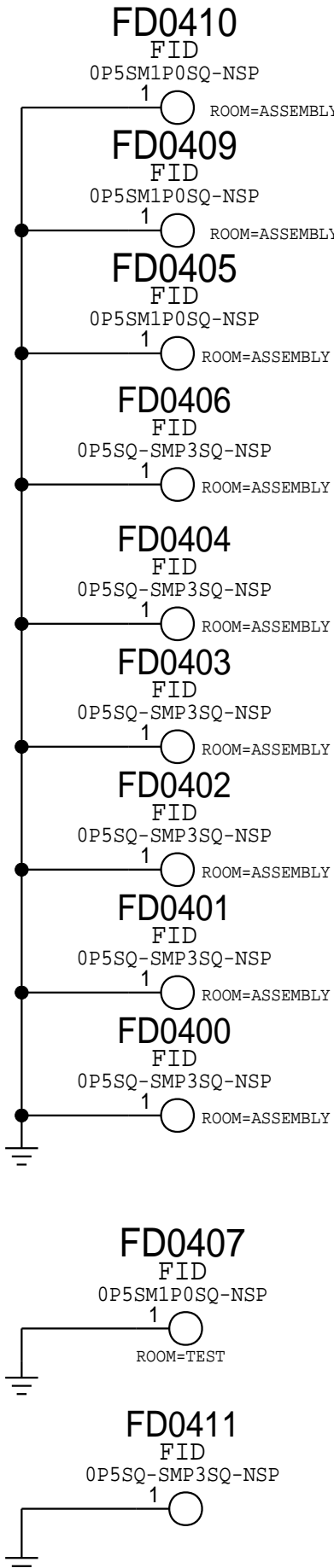
MOJAVE



LCM




FIDUCIALS



VIETMOBILE.VN

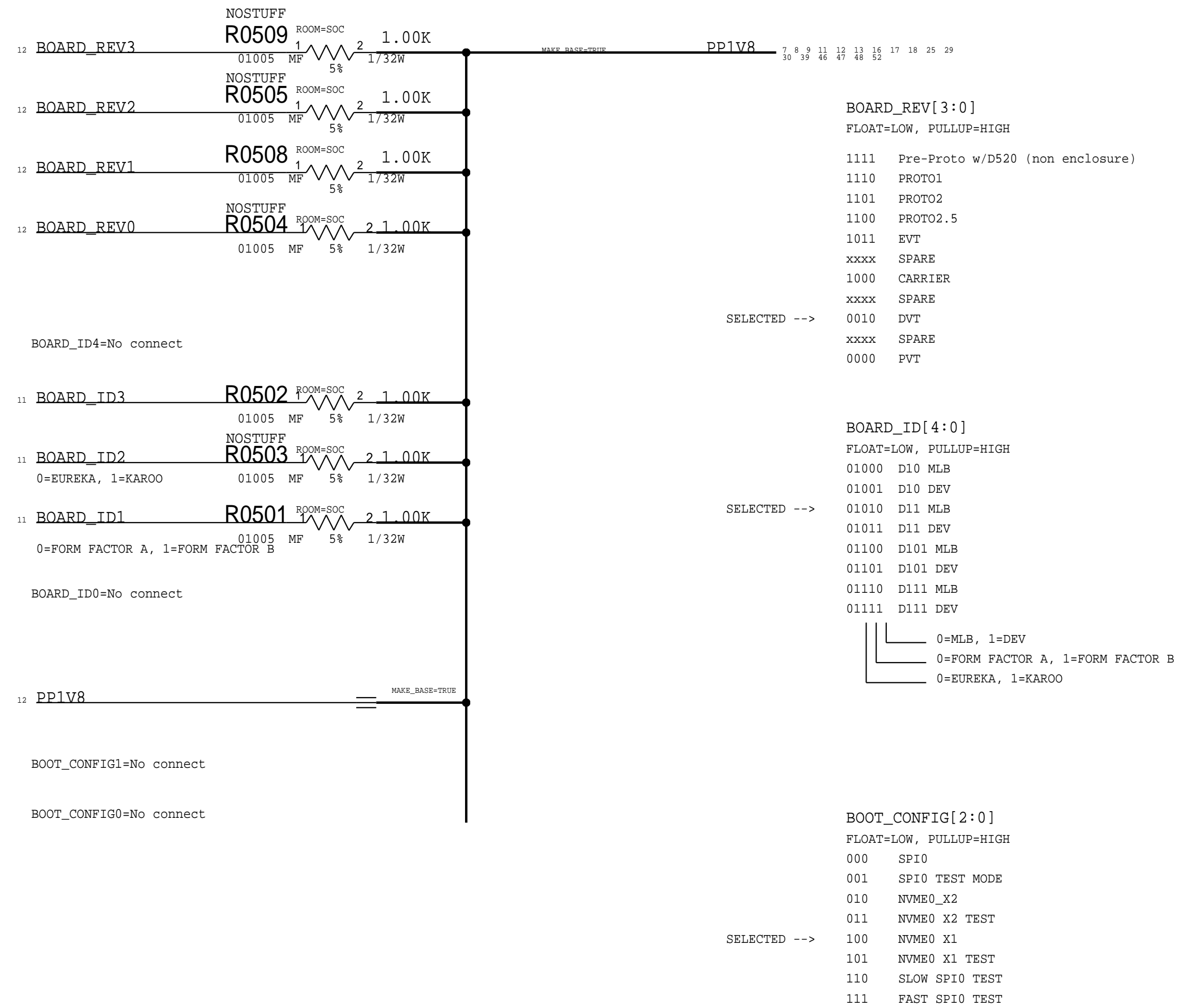
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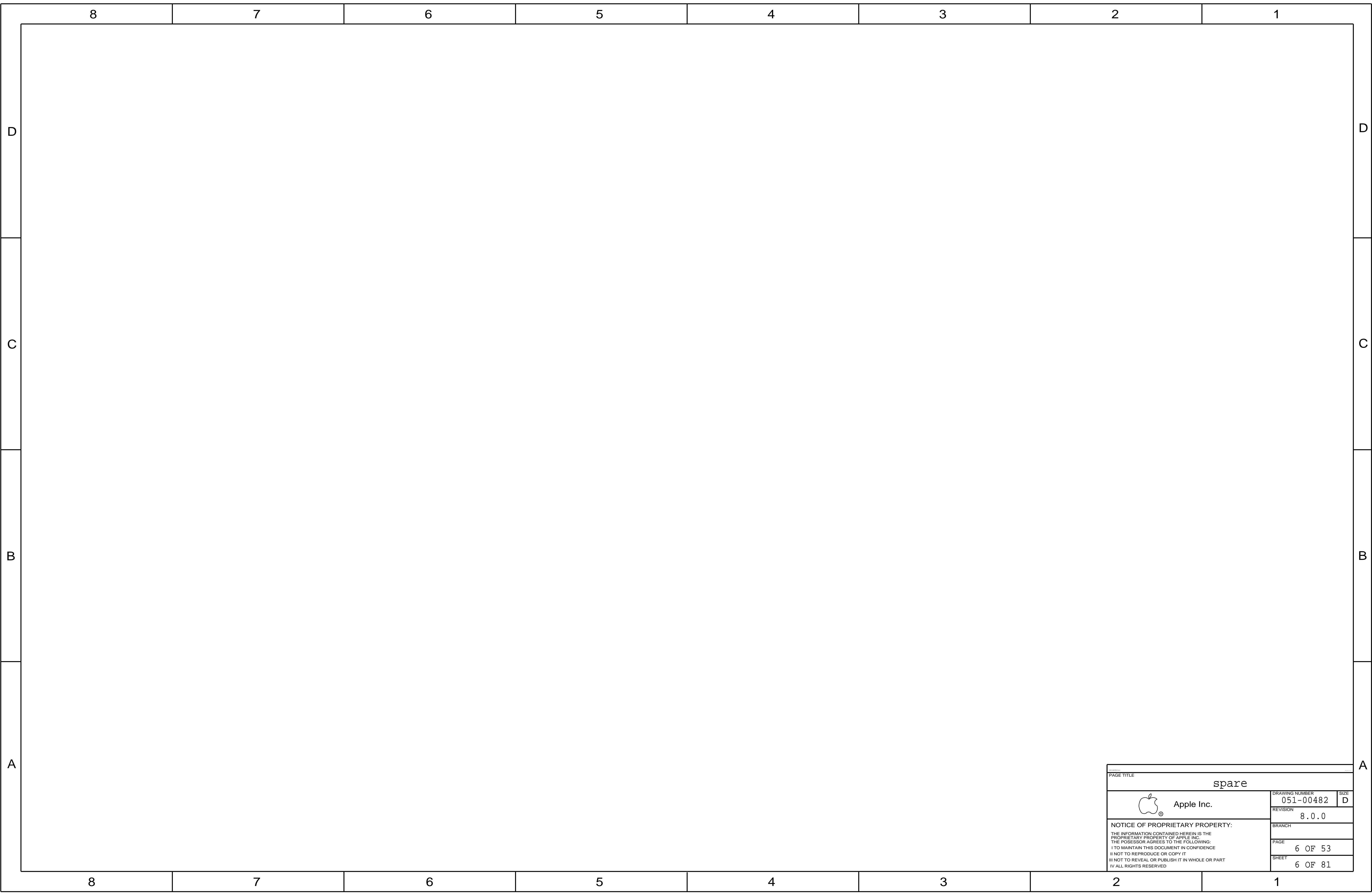
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BOOTSTRAPPING:BOARD  REV
                  BOARD  ID
                  BOOT  CONFIG

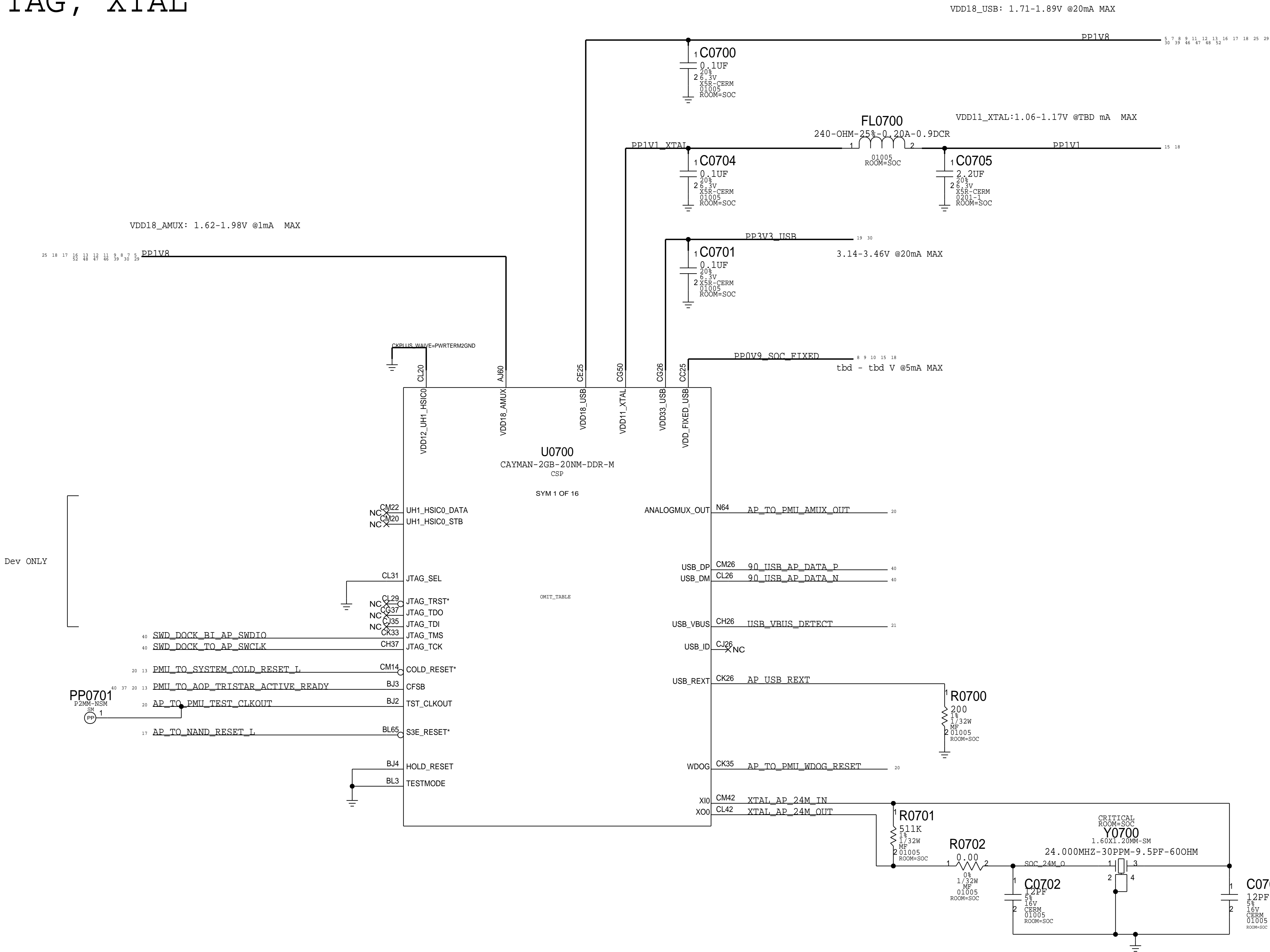
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SOC - USB, JTAG, XTAL



SOC - PCIE INTERFACES

D

C

B

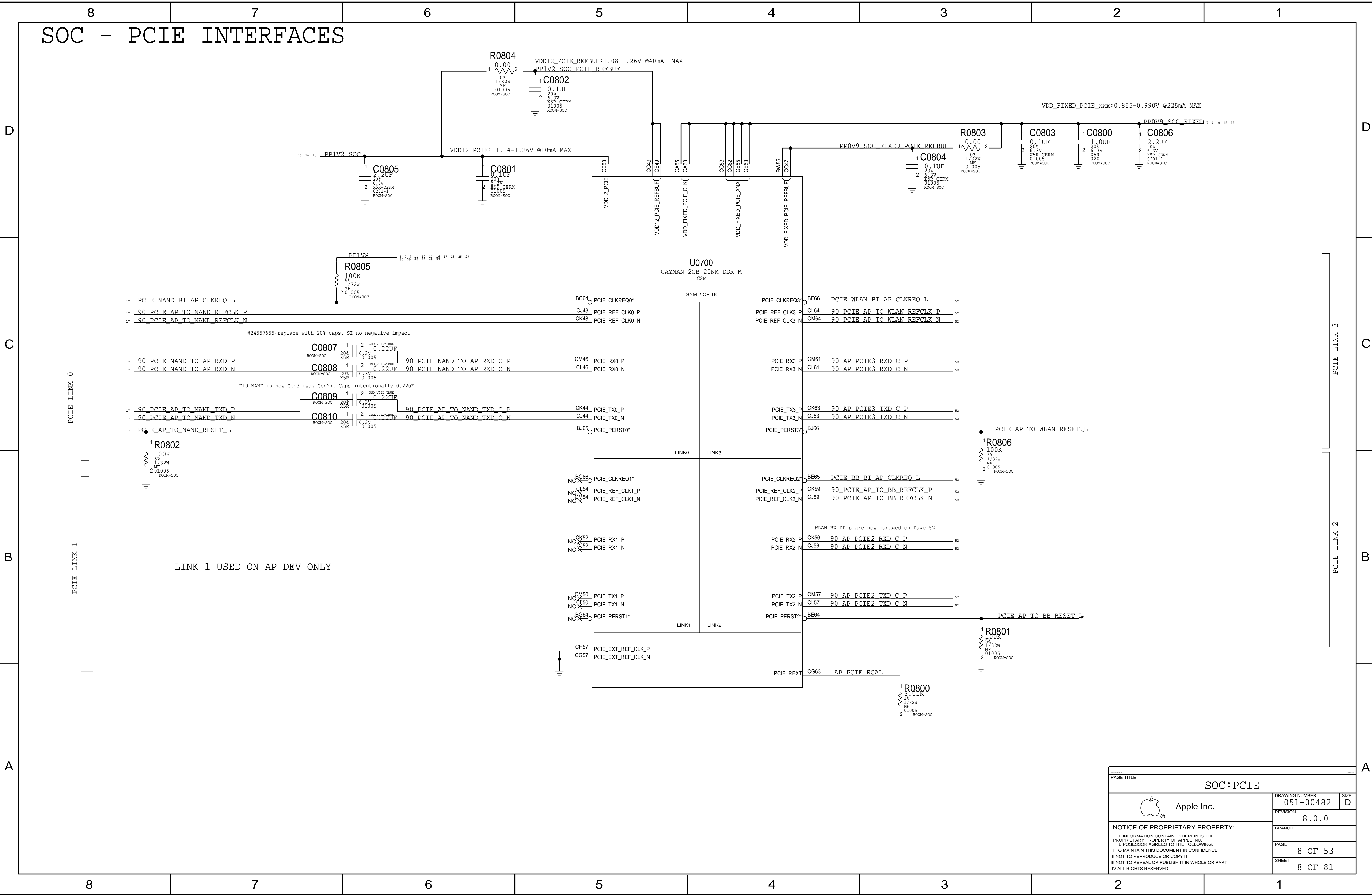
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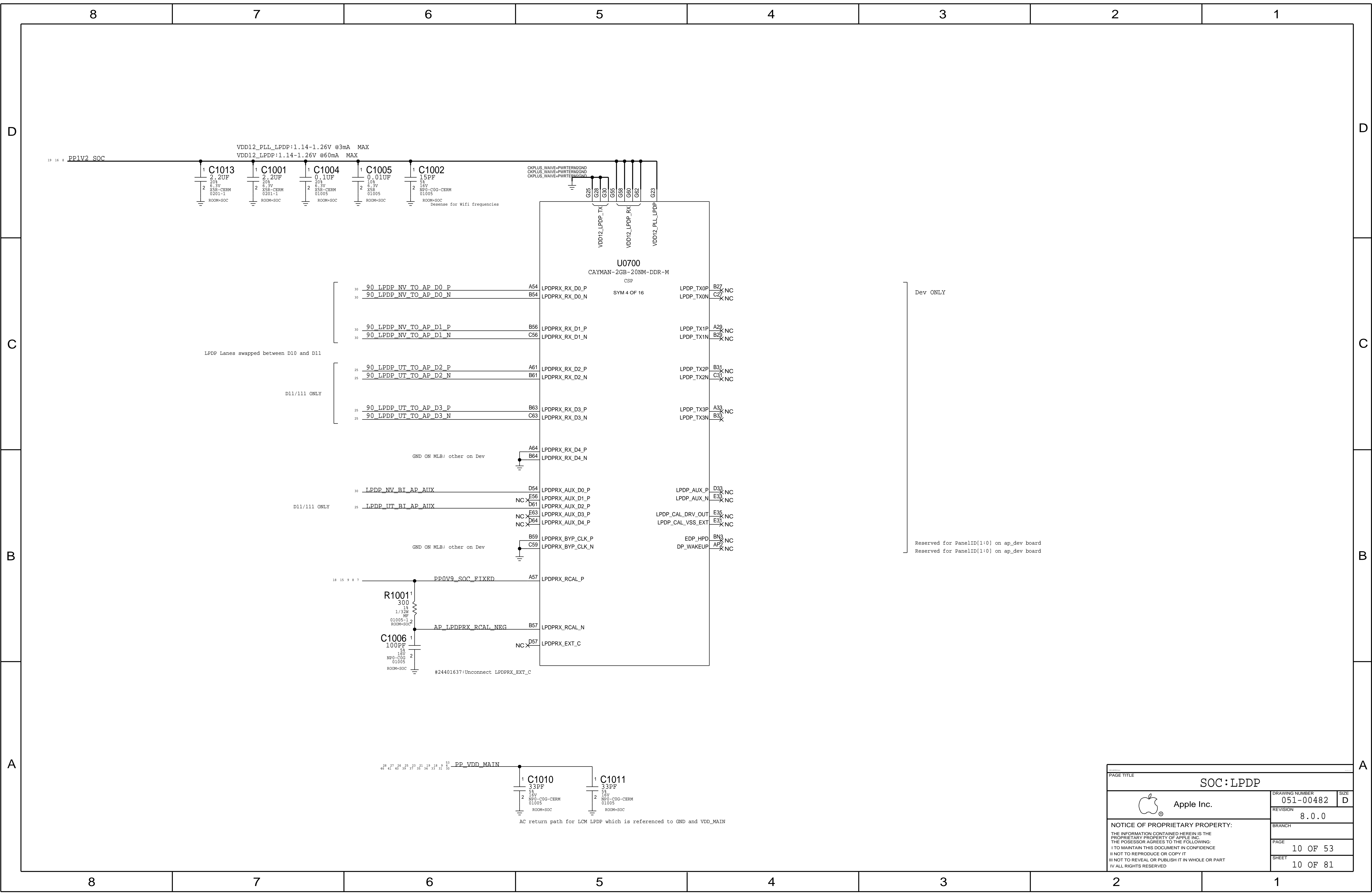
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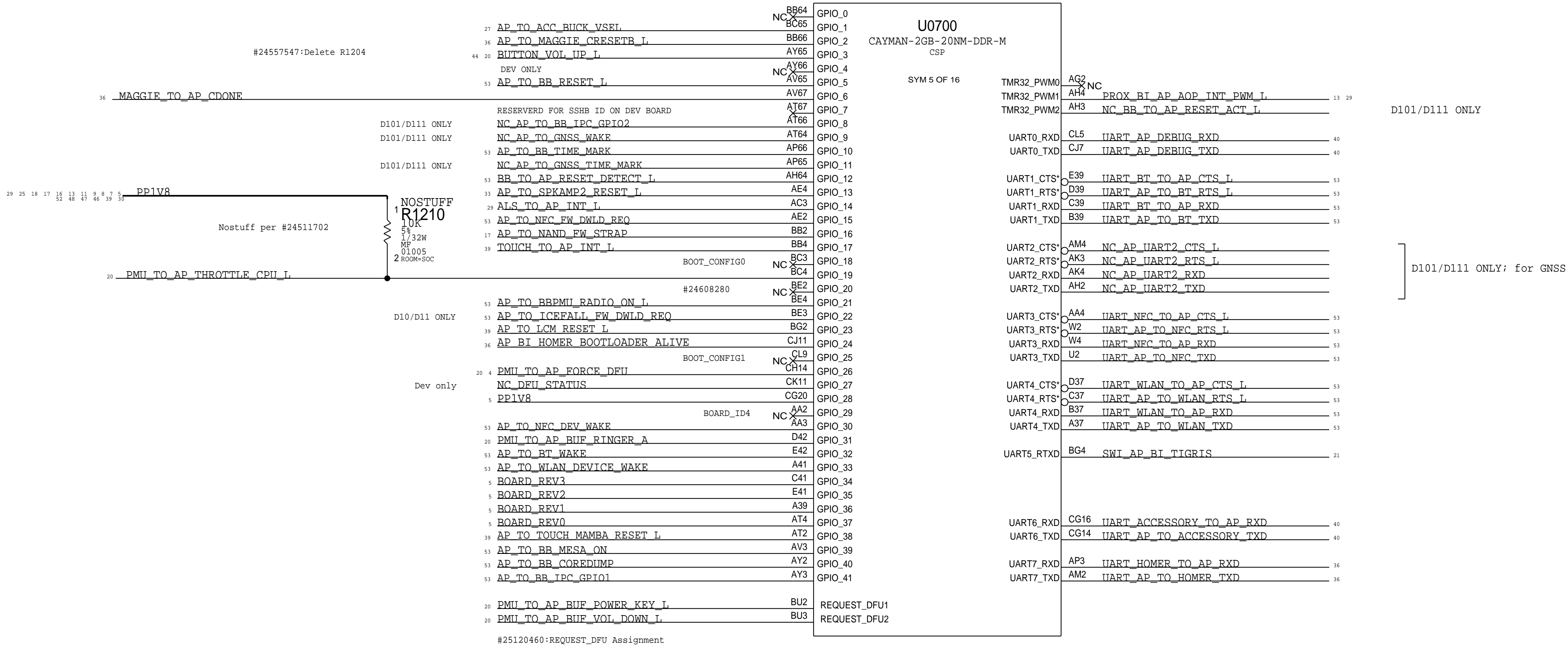
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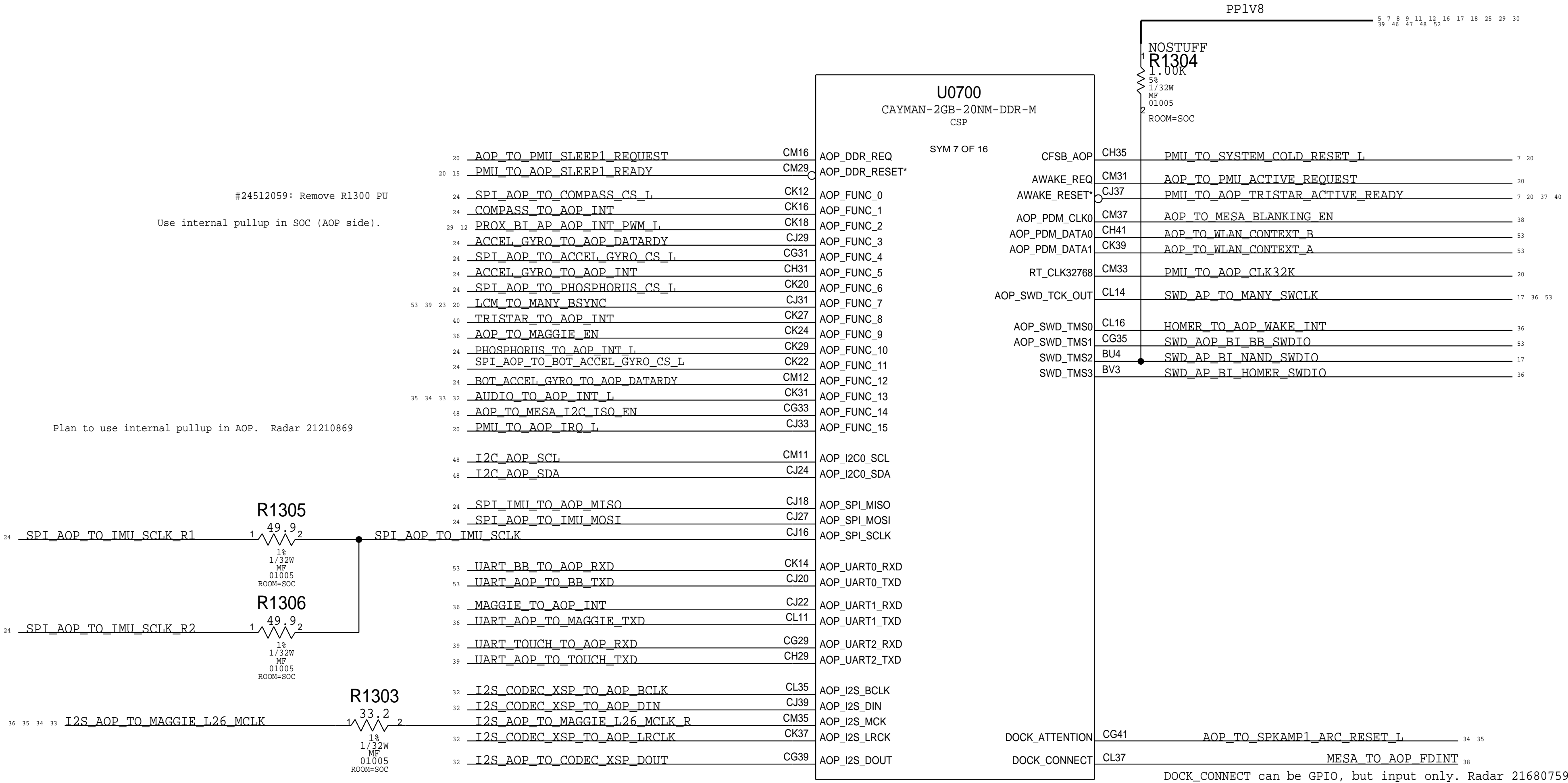
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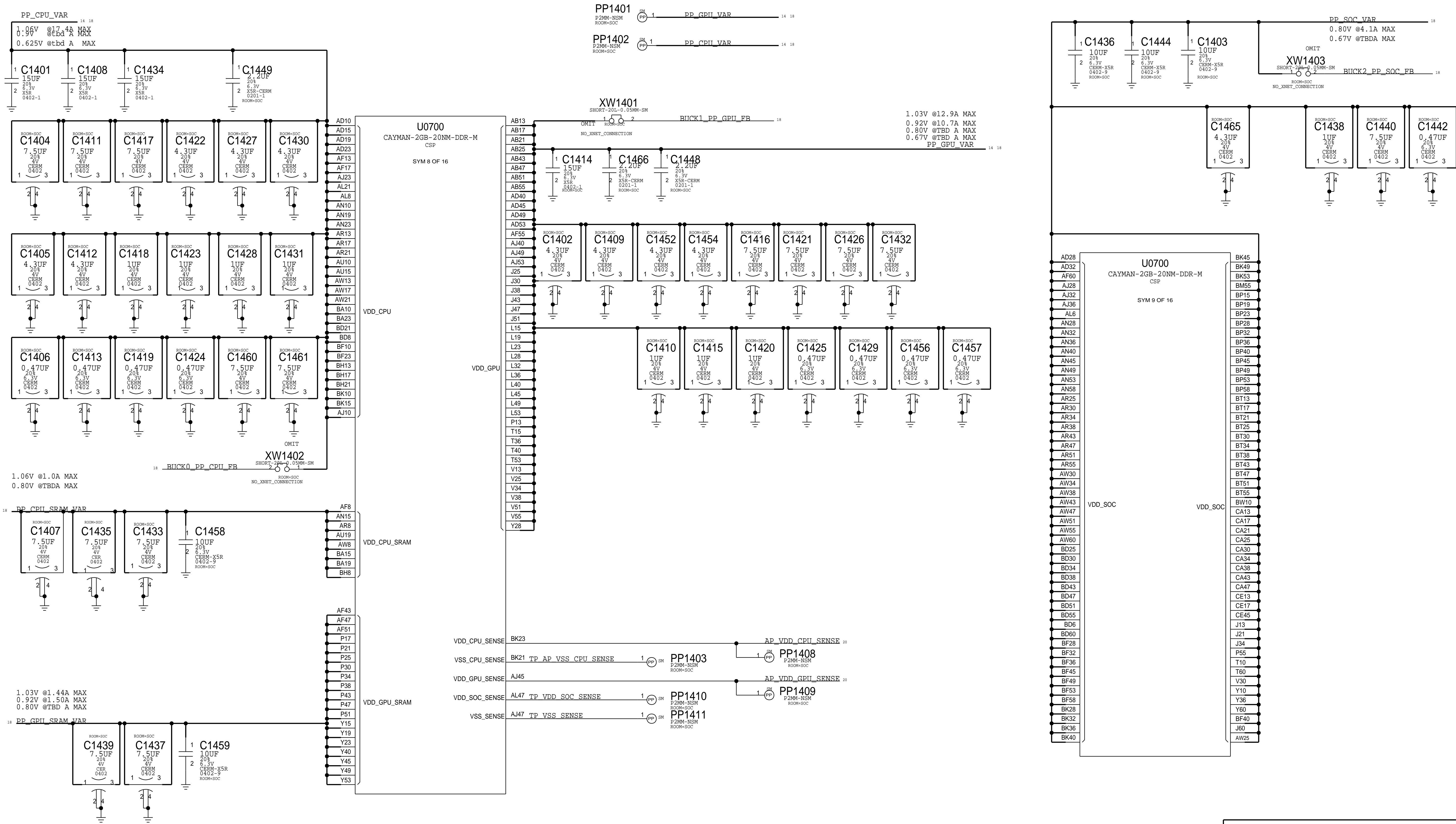
SOC - GPIO INTERFACES



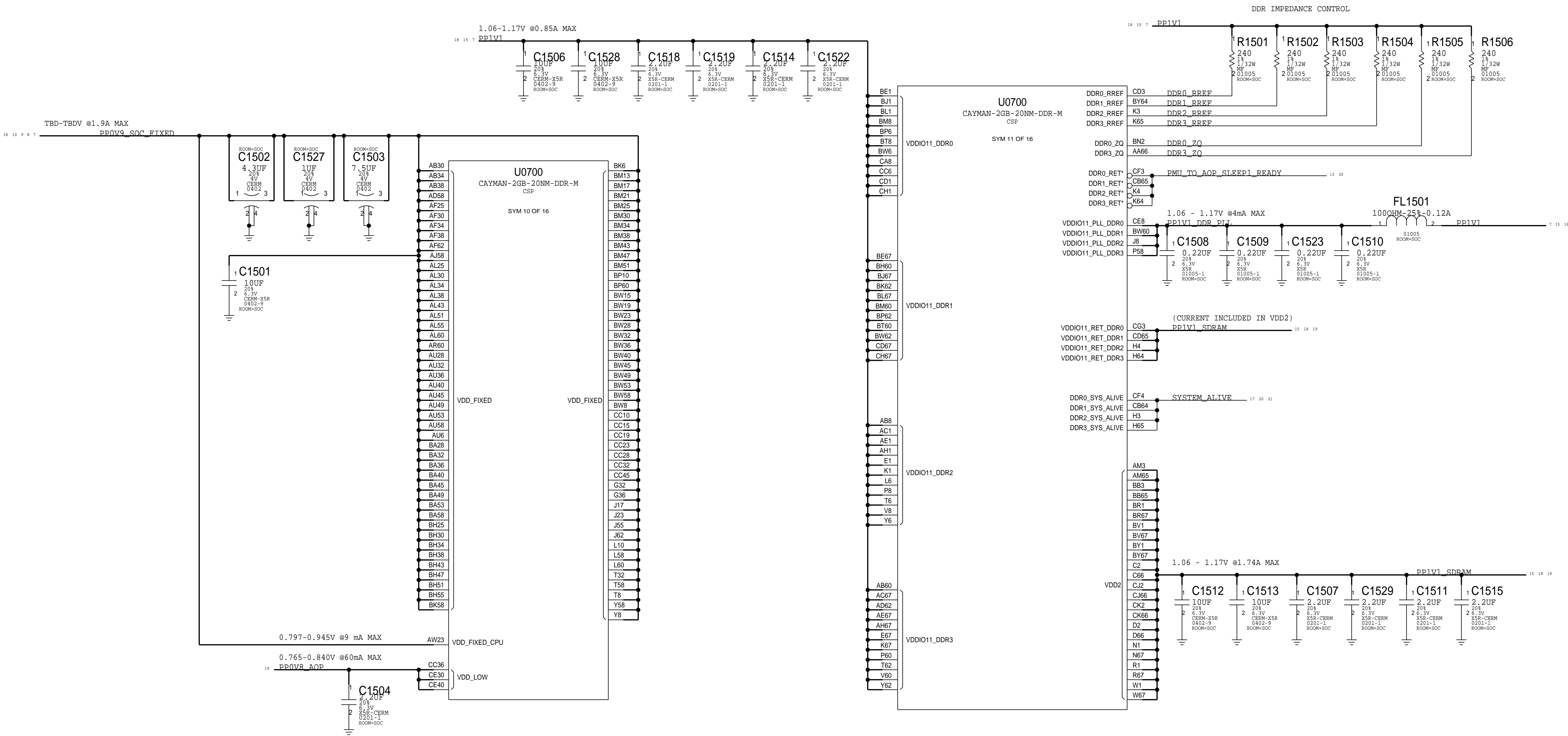
SOC - AOP



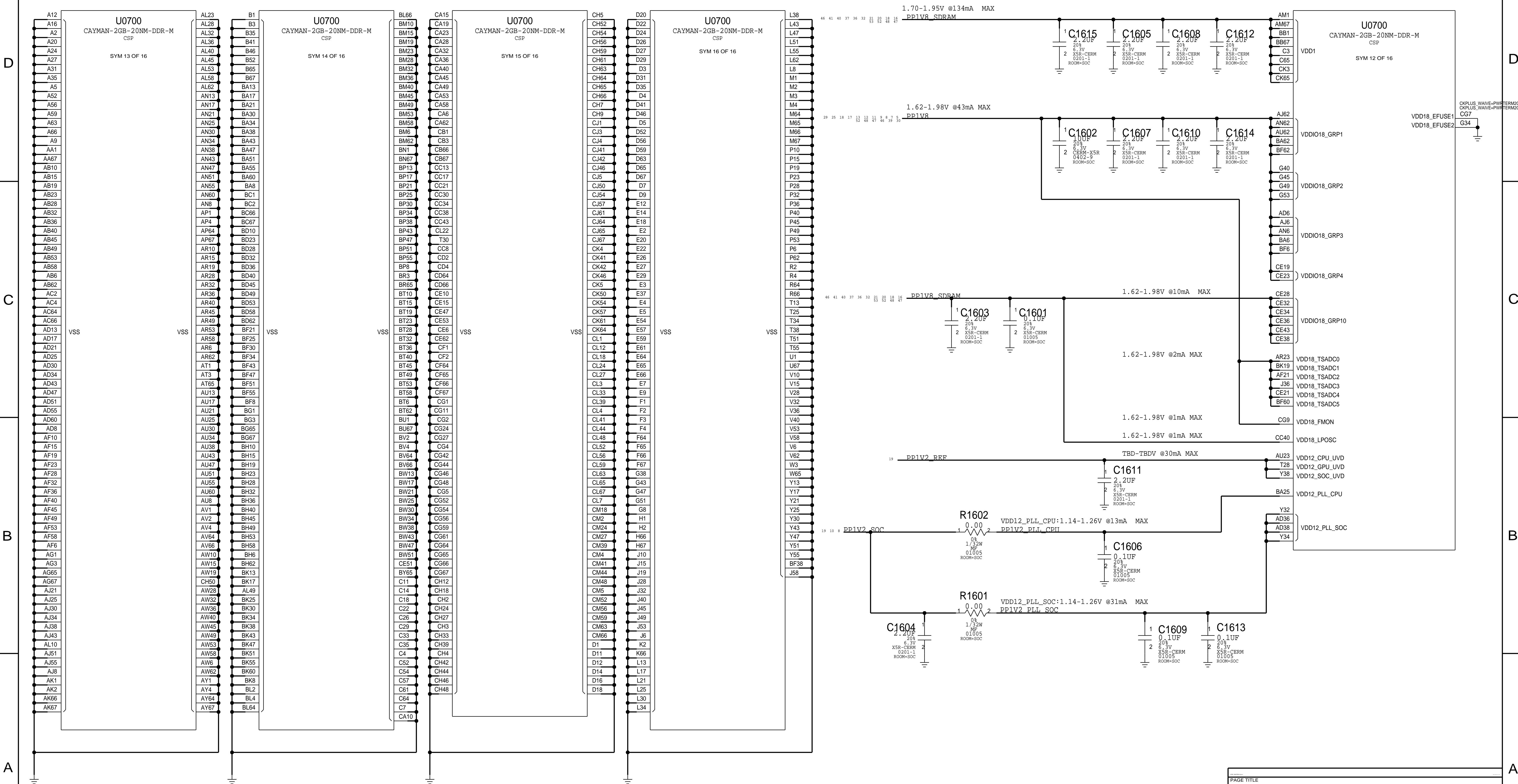
SOC - CPU, GPU & SOC RAILS



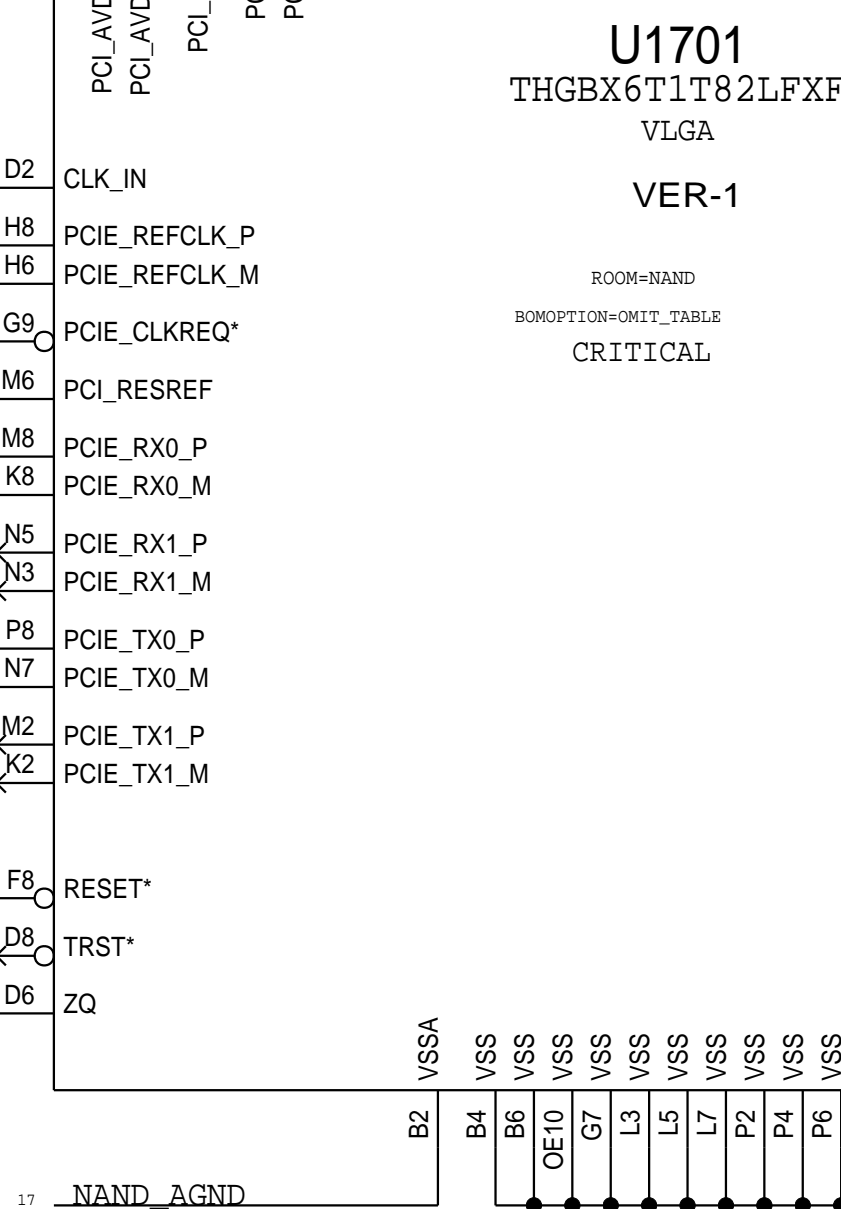
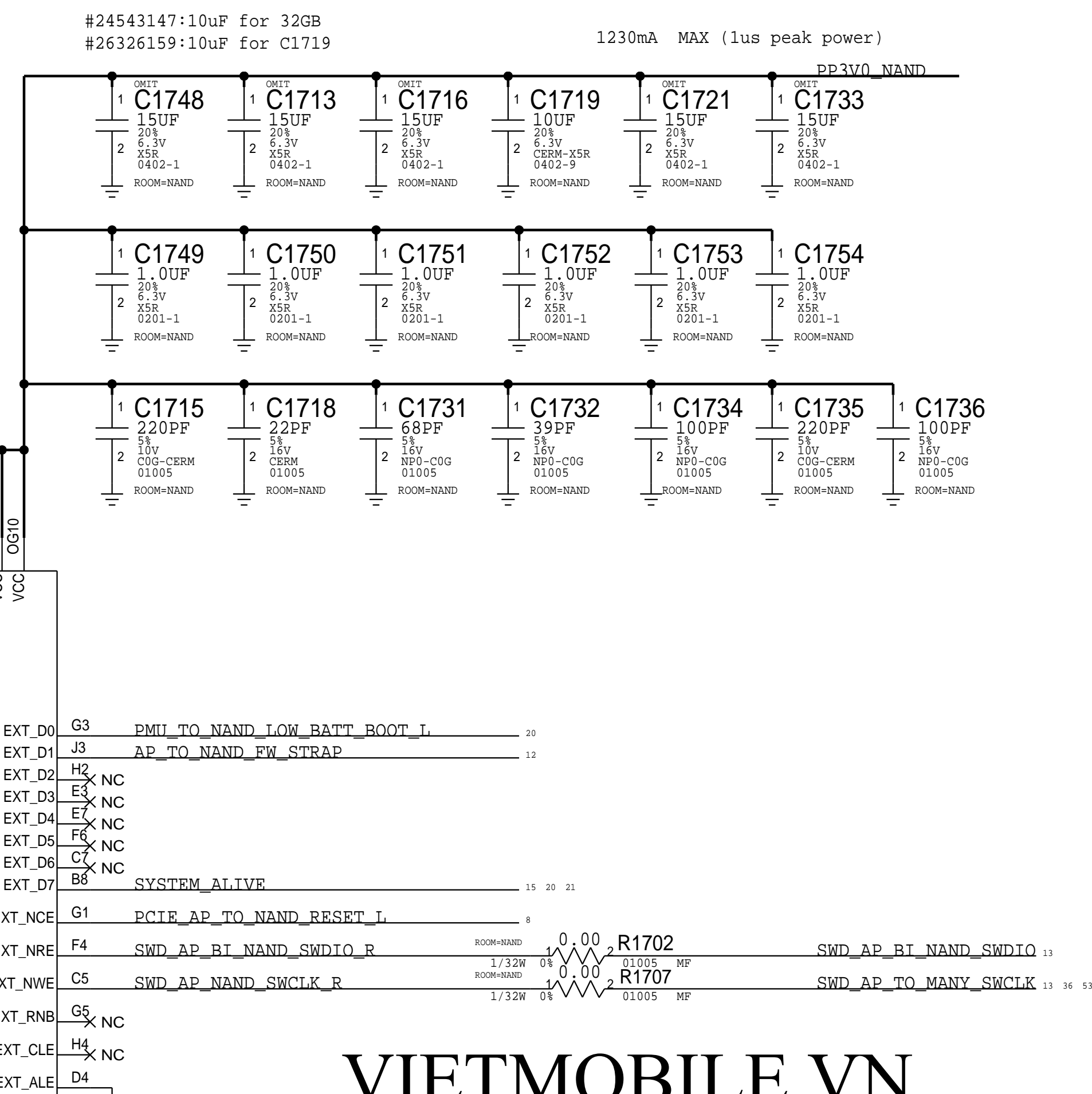
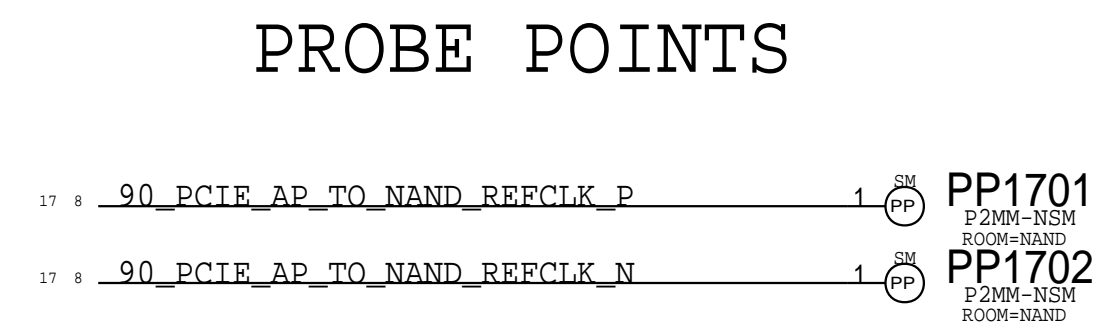
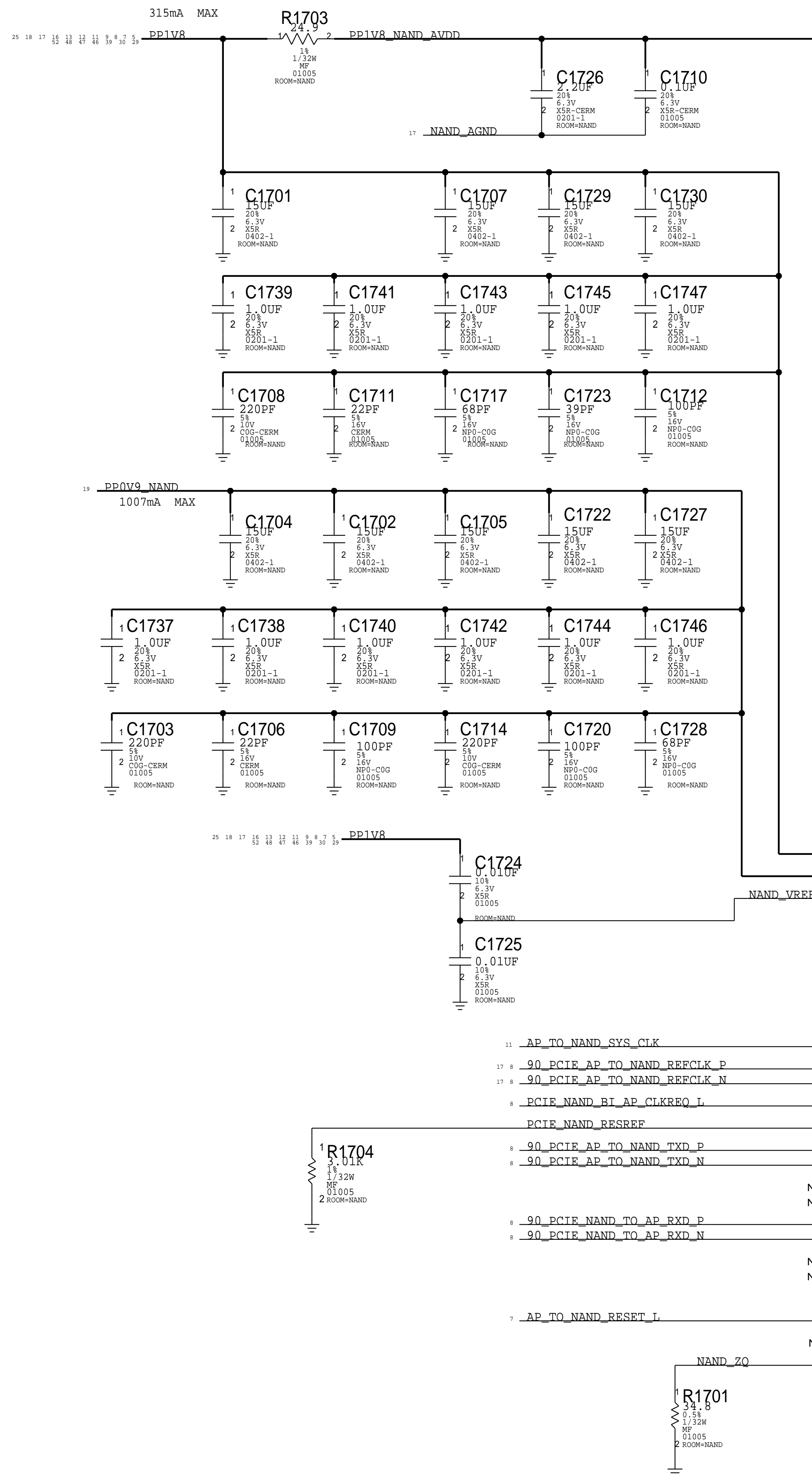
SOC - POWER SUPPLIES




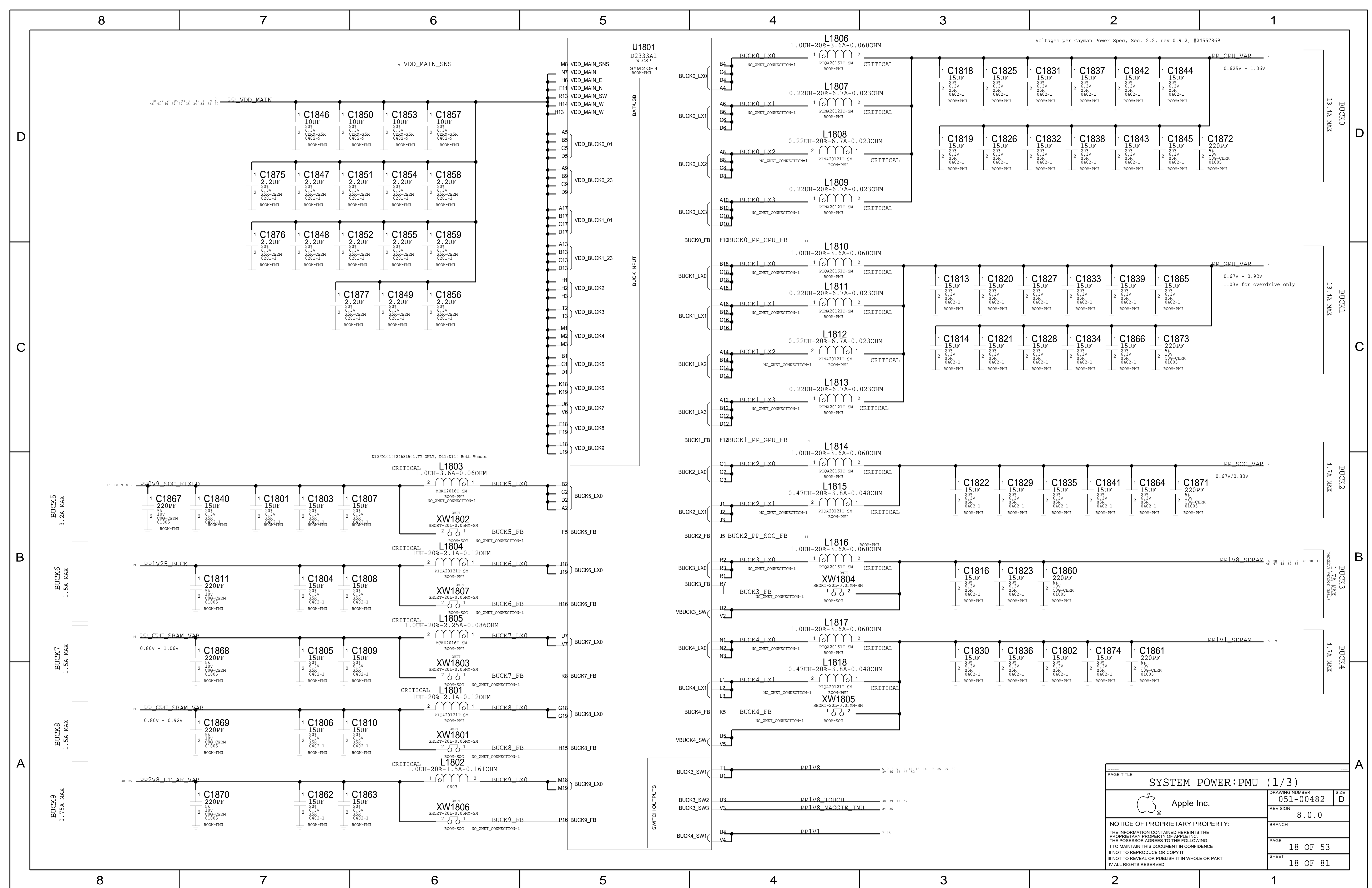
SOC - POWER SUPPLIES

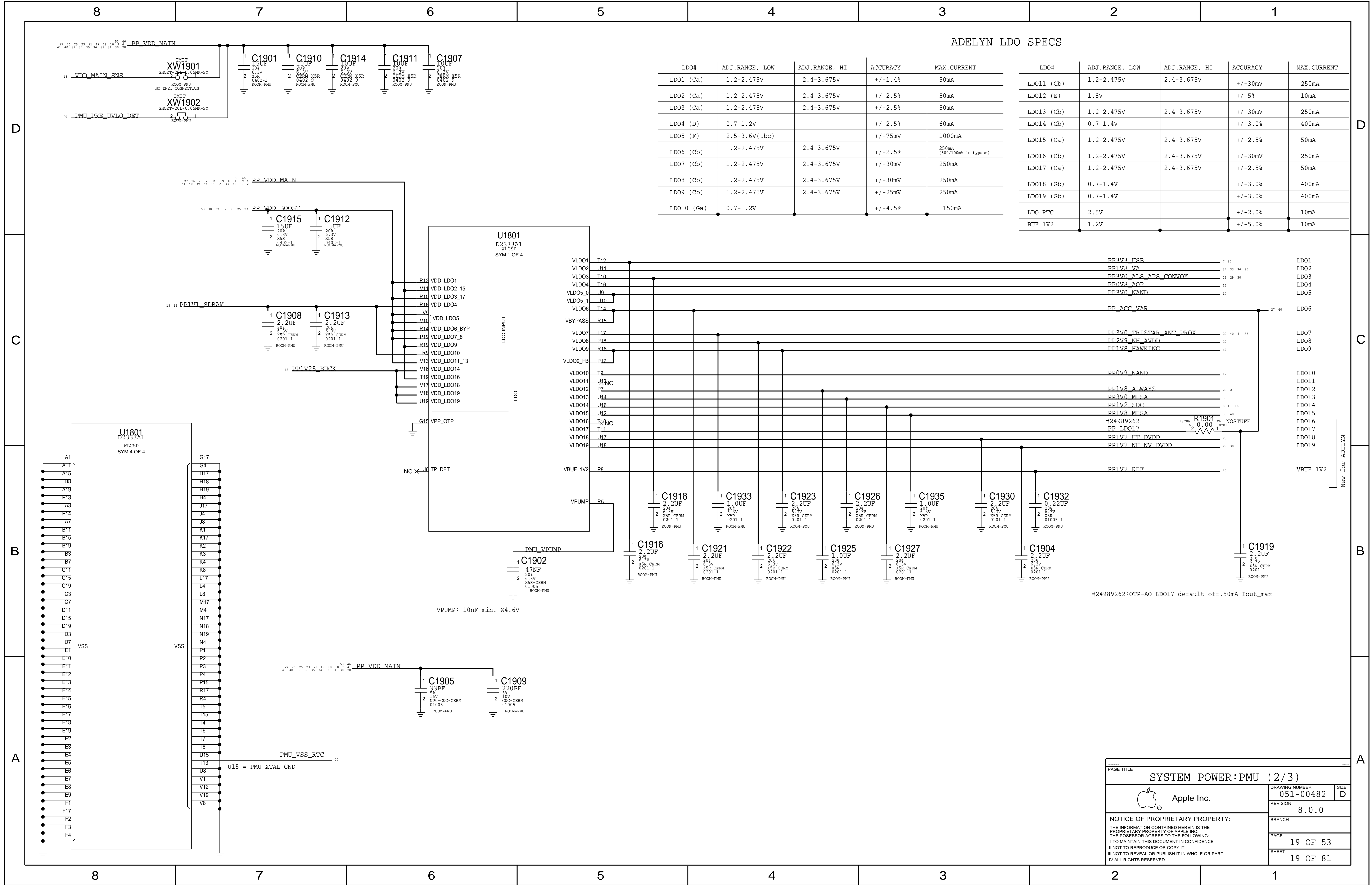


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		BRANCH			
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	Apple Inc.	
	DRAWING NUMBER 051-00482	
REVISION 8.0.0		SIZE D
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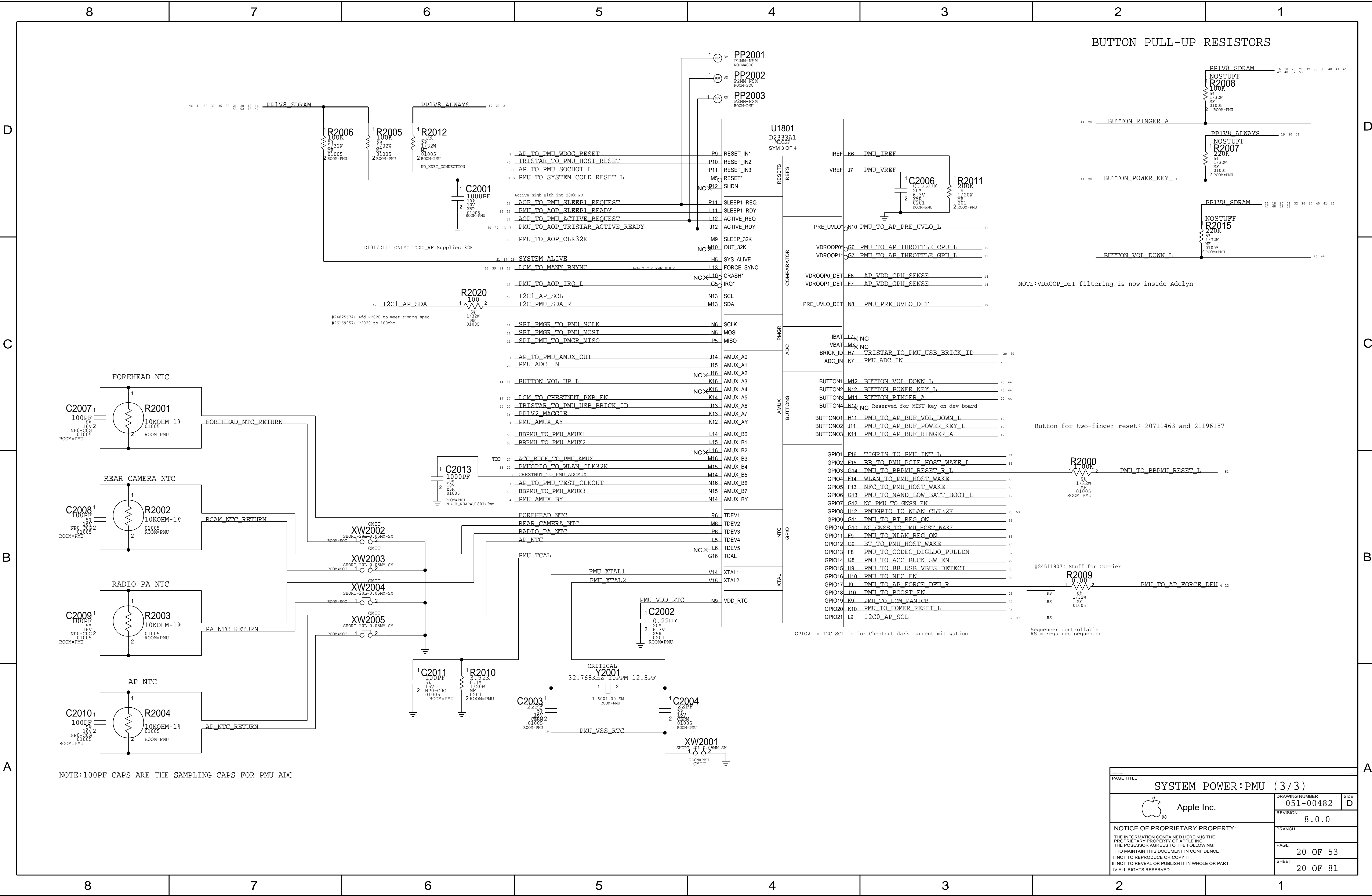
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BUTTON PULL-UP RESISTORS


NOTE:VDR00P_DET filtering is now inside Adelyn

Button for two-finger reset: 20711463 and 21196187

#24511807: Stuff for Carrier

Sequencer controllable
RS = requires sequencer

NOTE:100PF CAPS ARE THE SAMPLING CAPS FOR PMU ADC

PAGE TITLE		
SYSTEM POWER:PMU (3/3)		
 Apple Inc.	DRAWING NUMBER	051-00482
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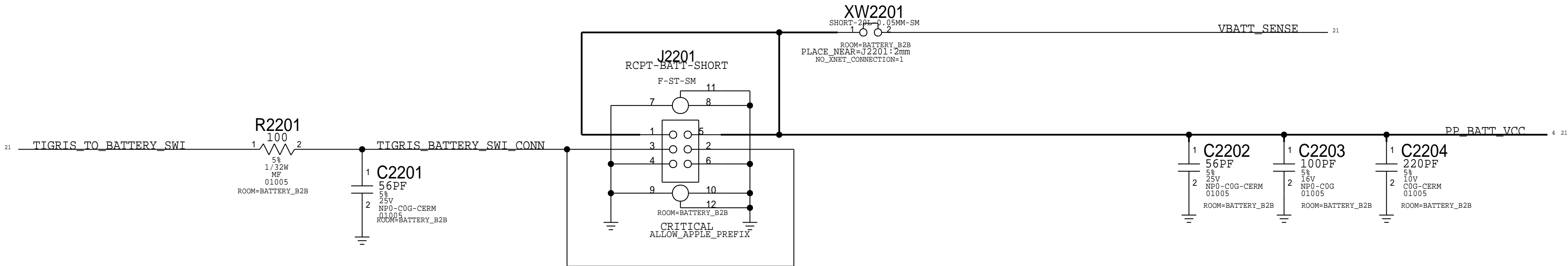
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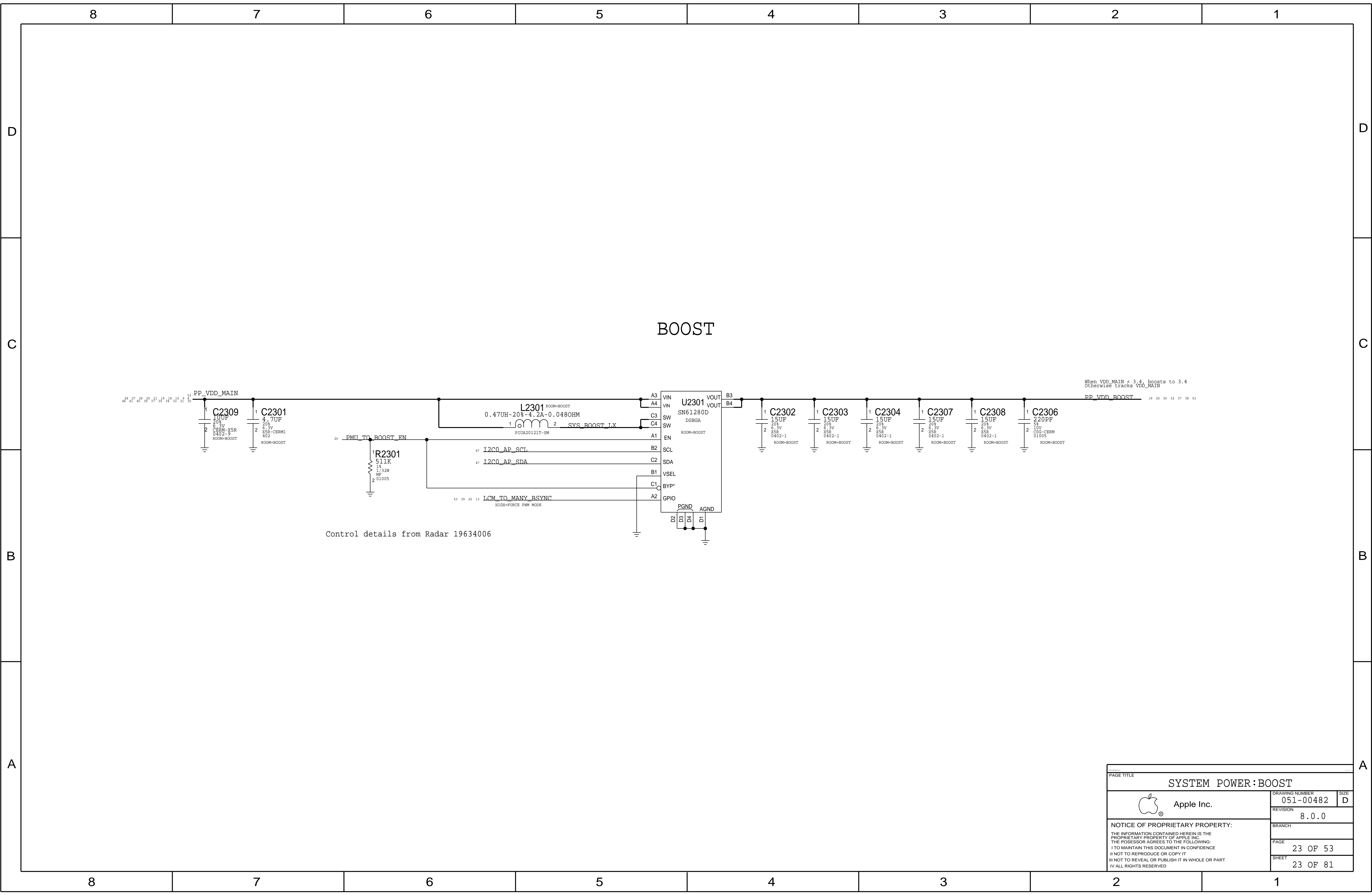
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BATTERY CONNECTOR

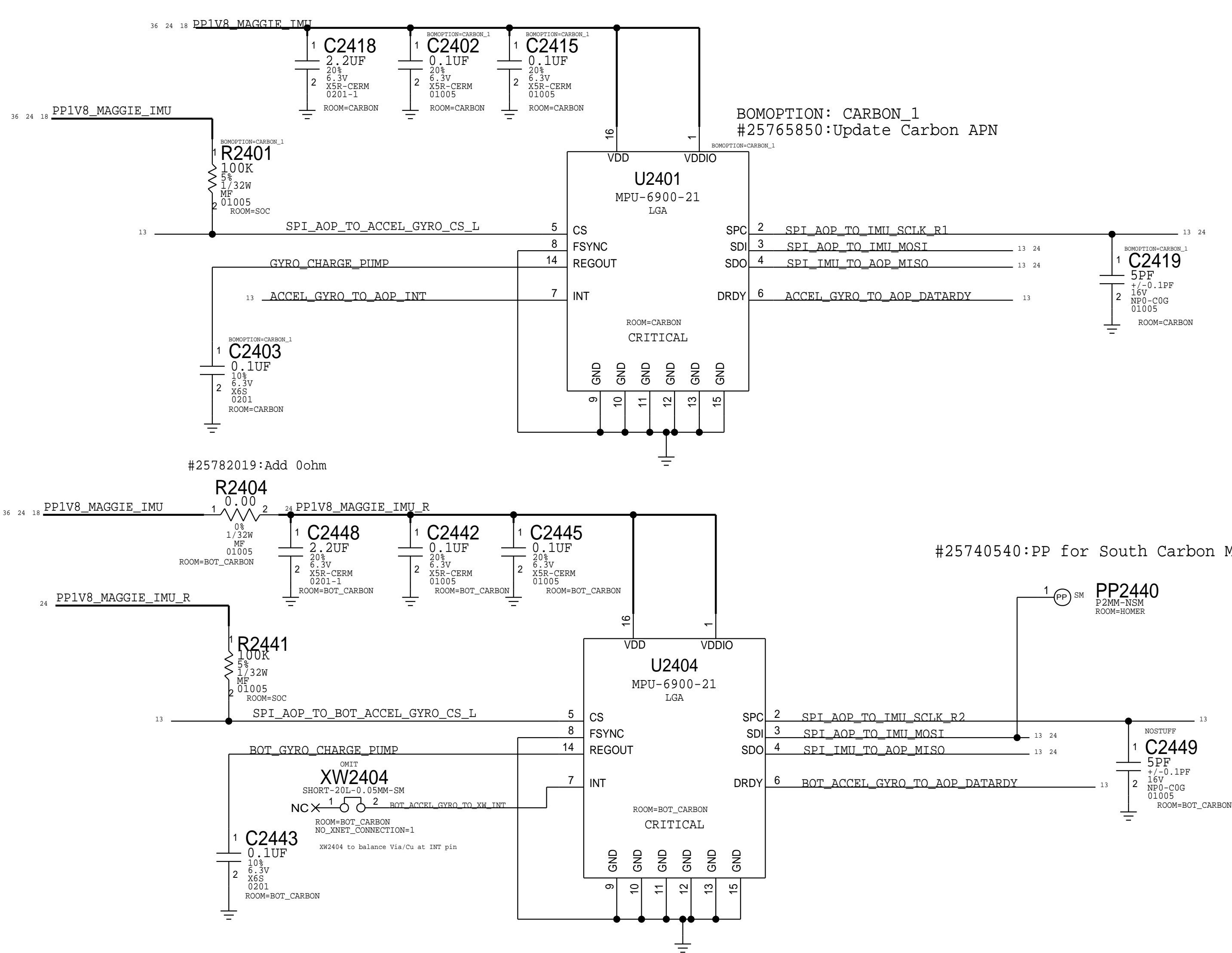
THIS ONE ON MLB ----> 516S00172 (matches d10 m1b MCO rev 27)



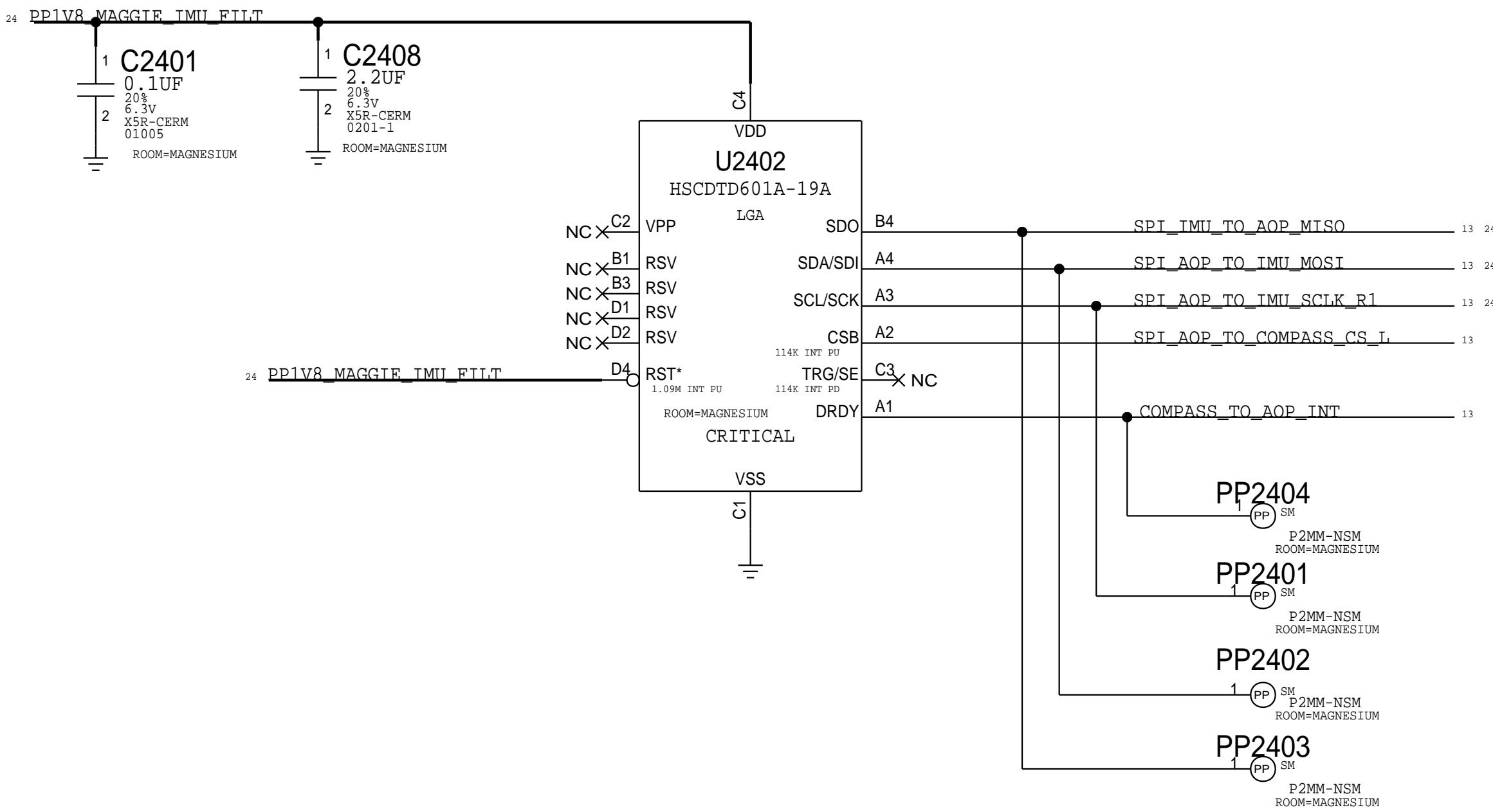


CARBON - ACCEL & GYRO

INVENSENSE, MPU-6800: C2403=0.1uF



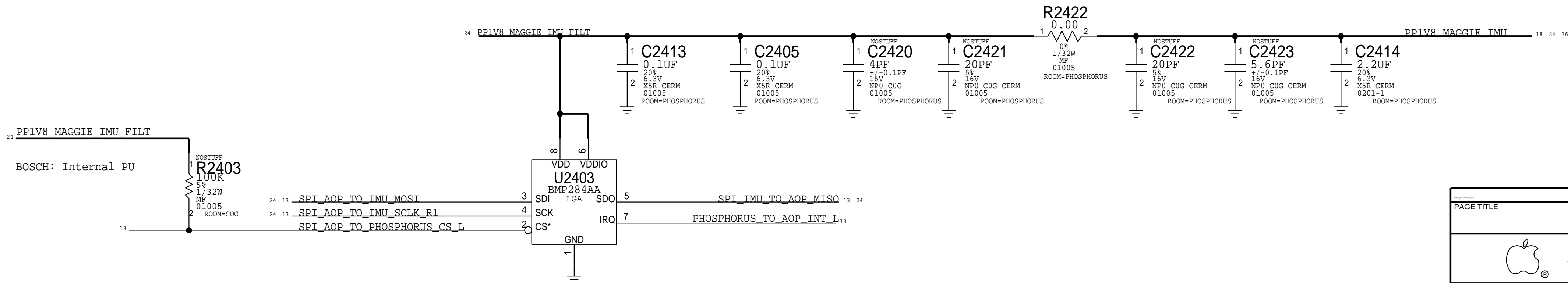
MAGNESIUM - COMPASS



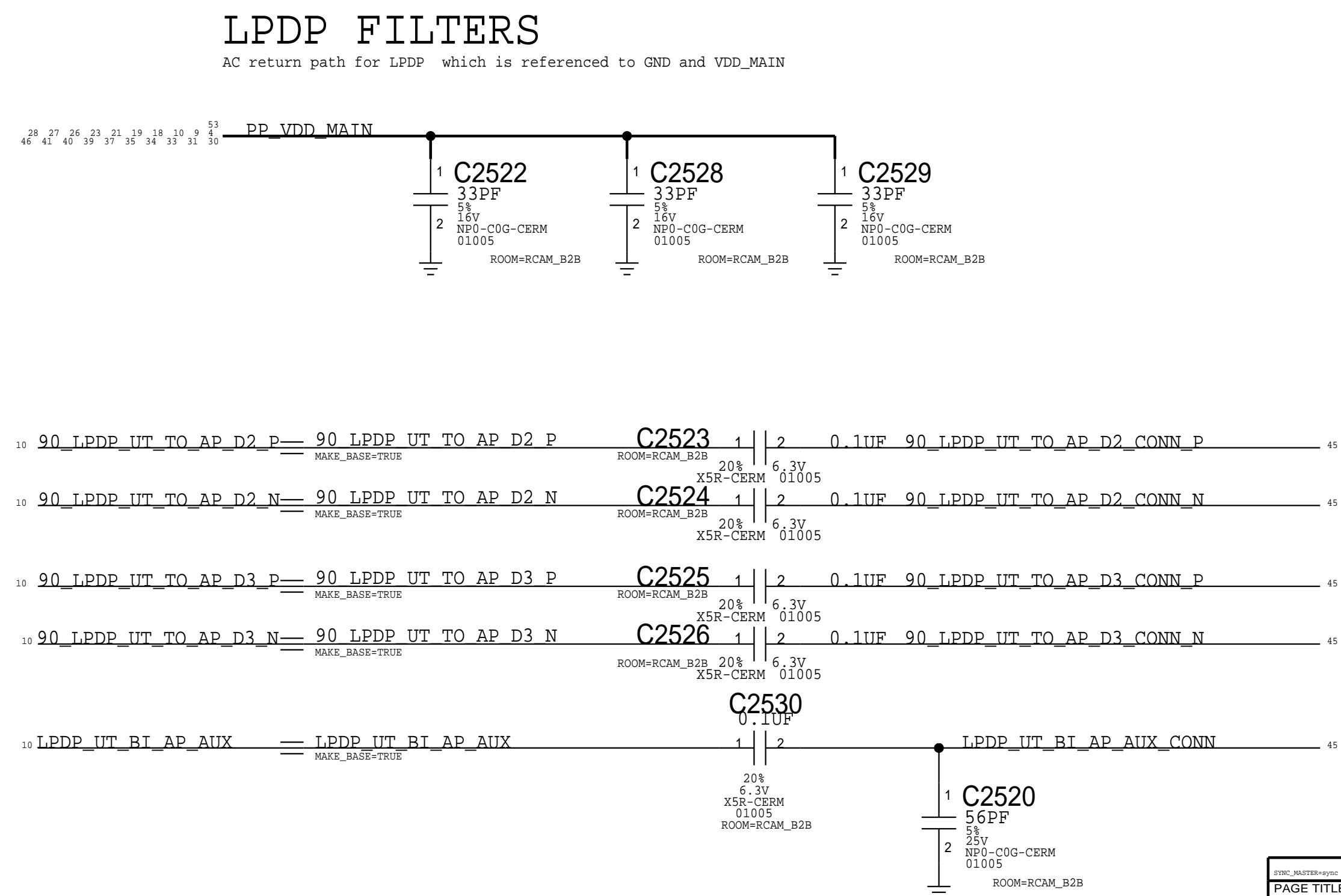
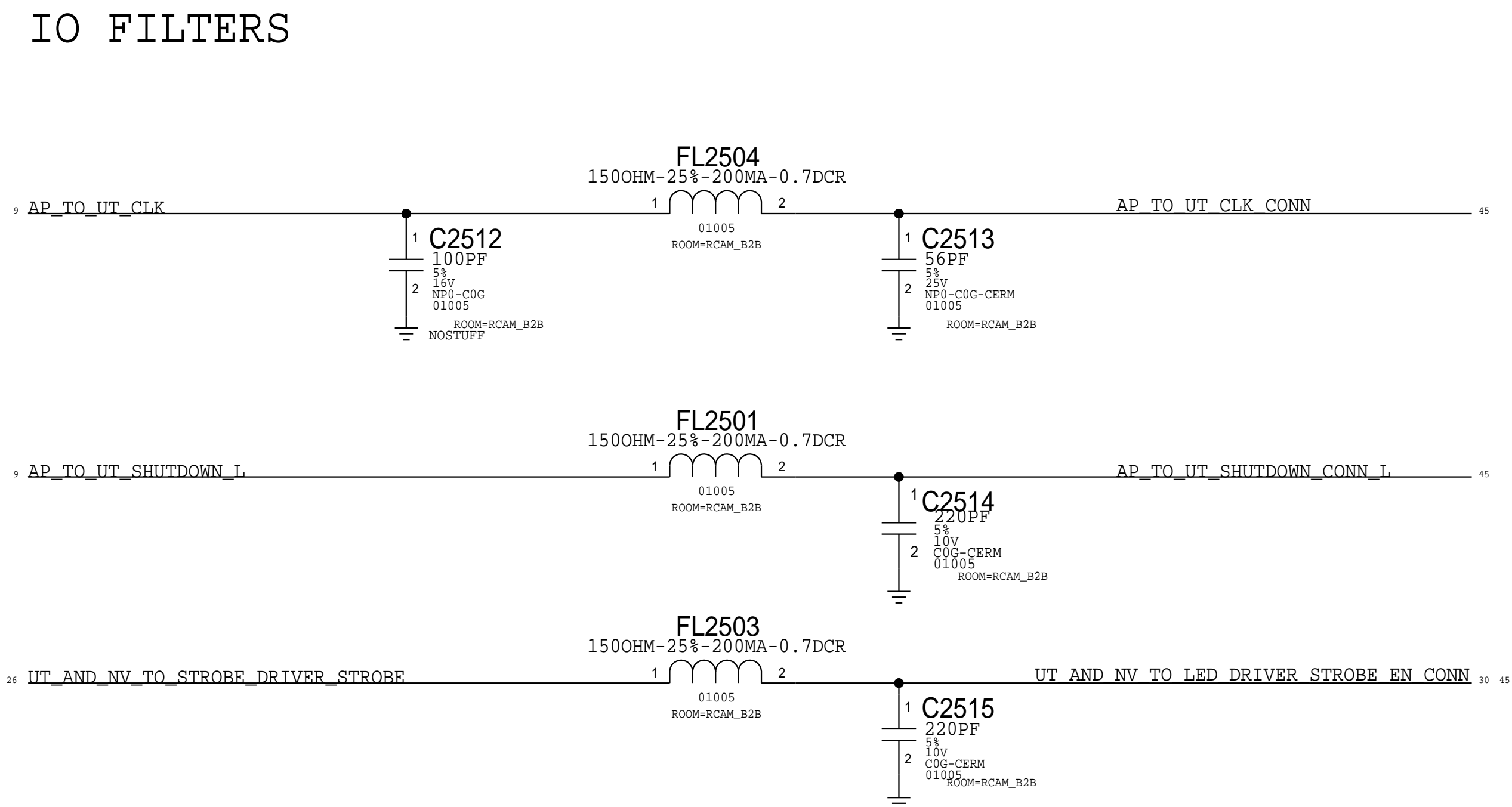
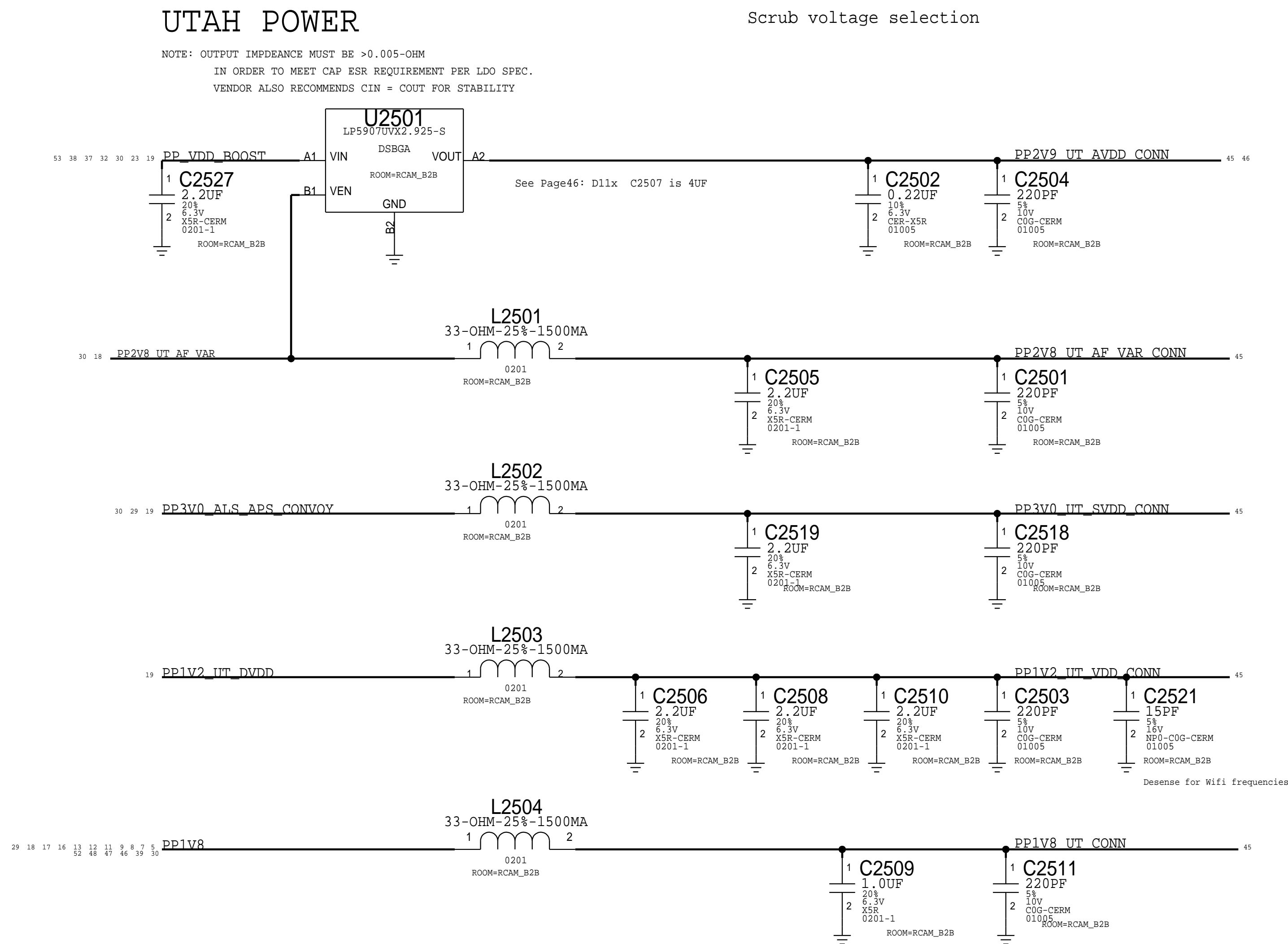
PHOSPHORUS


#24593845

BOSCH (APN:338S00188): nostuff C2420/C2421/C2422/C2423 and R2403 PU
ST (APN:338S00230): stuff C2420-C2423, C2420R2422 with 155S00017, stuff R2403 PU
C2420=4pF(131S0253),C2405=3pF(131S0251) per #25691124



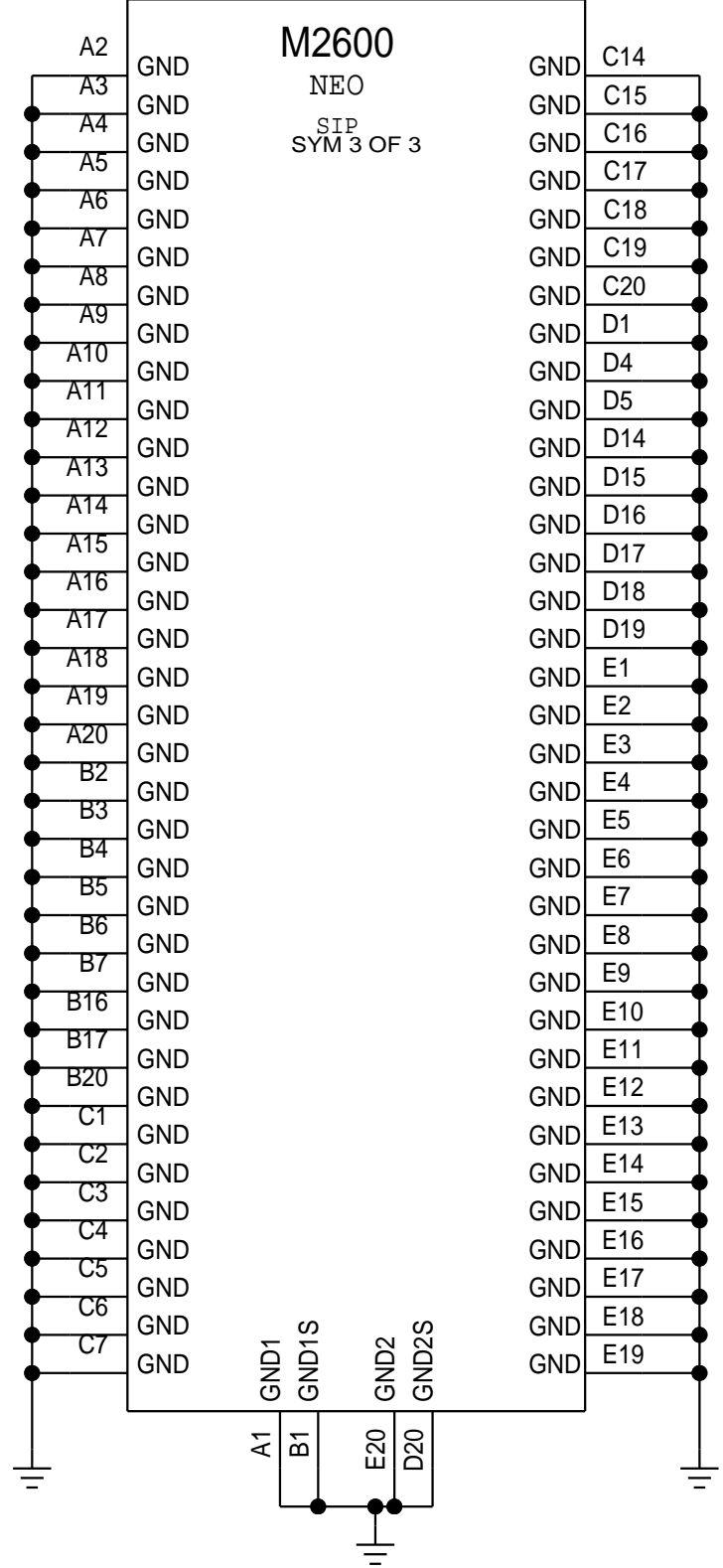
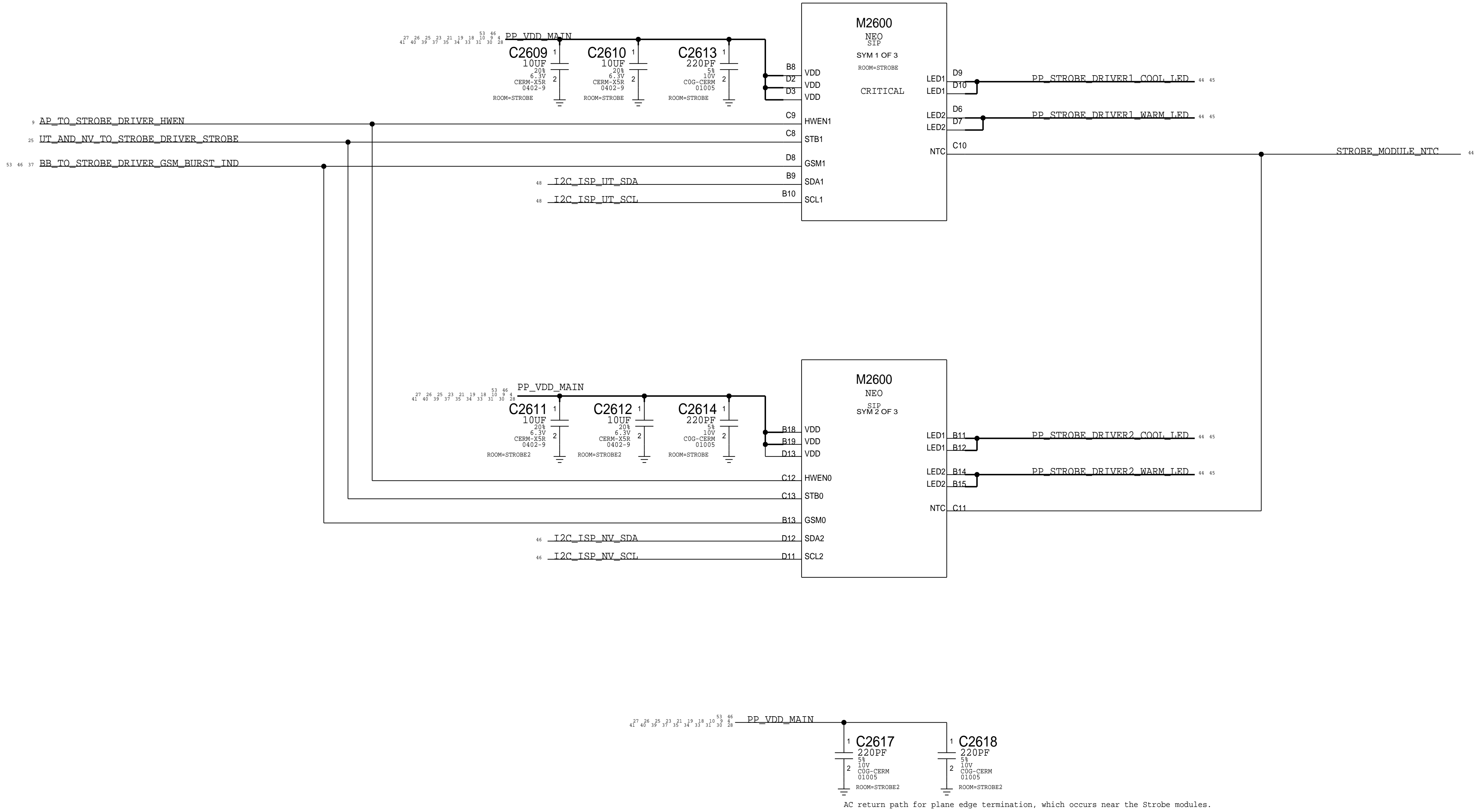
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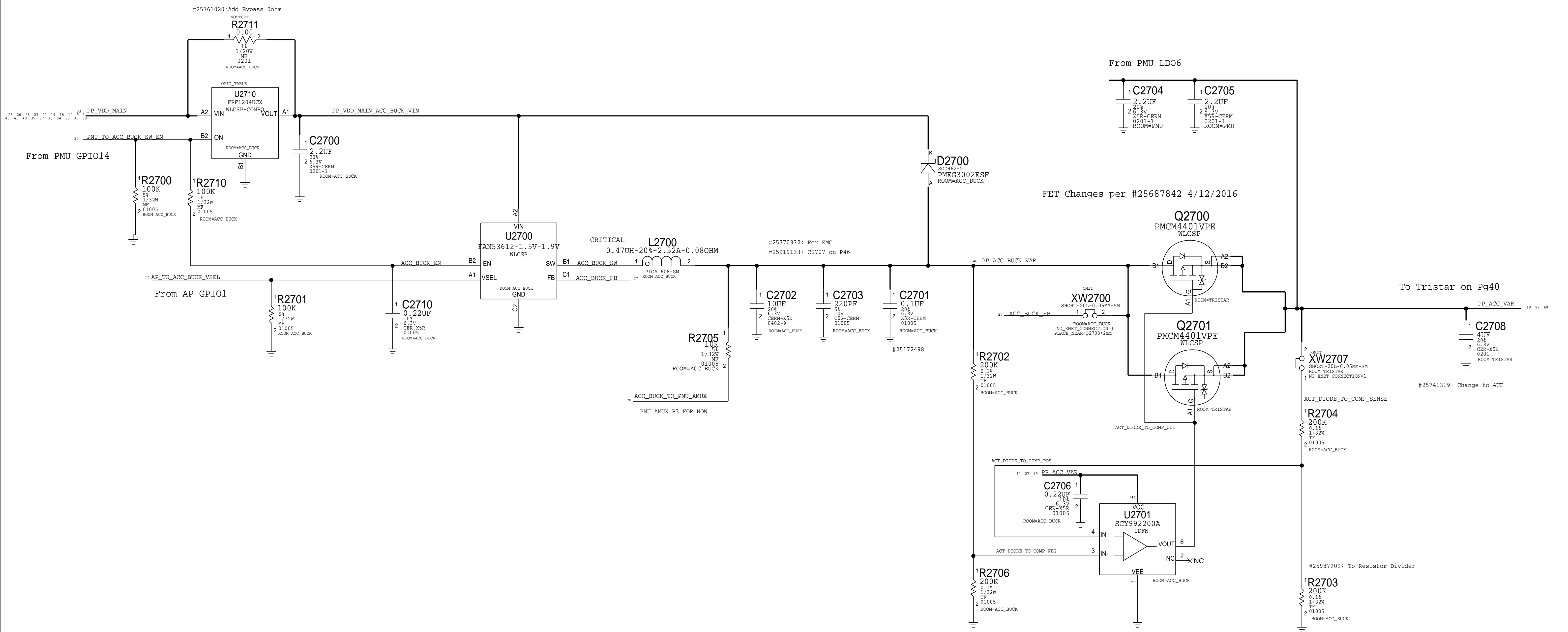
STROBE DRIVERS INSIDE NEO SIP MODULE

D10/sip_neo

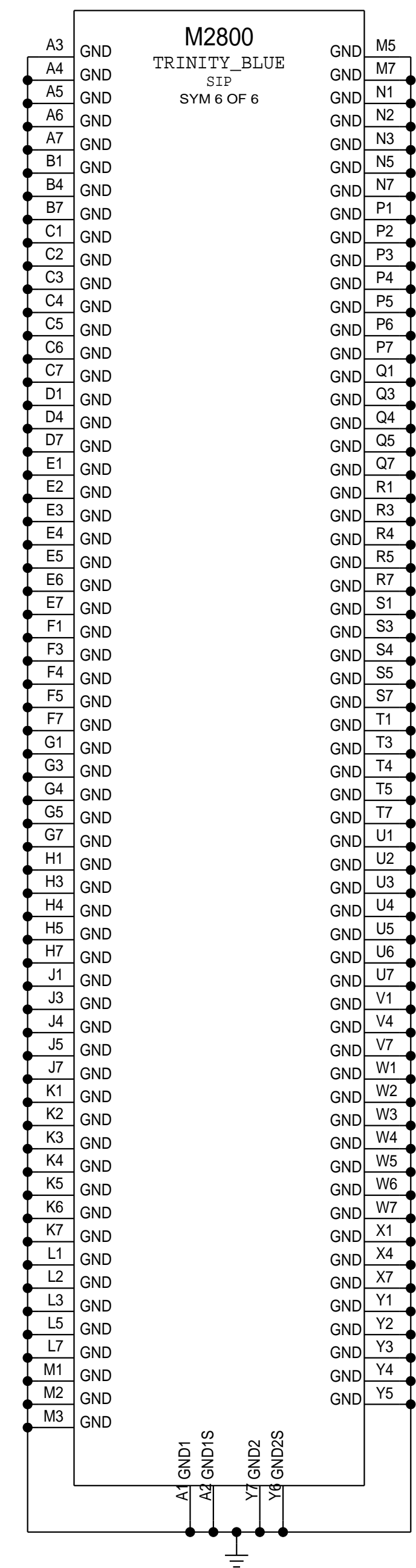
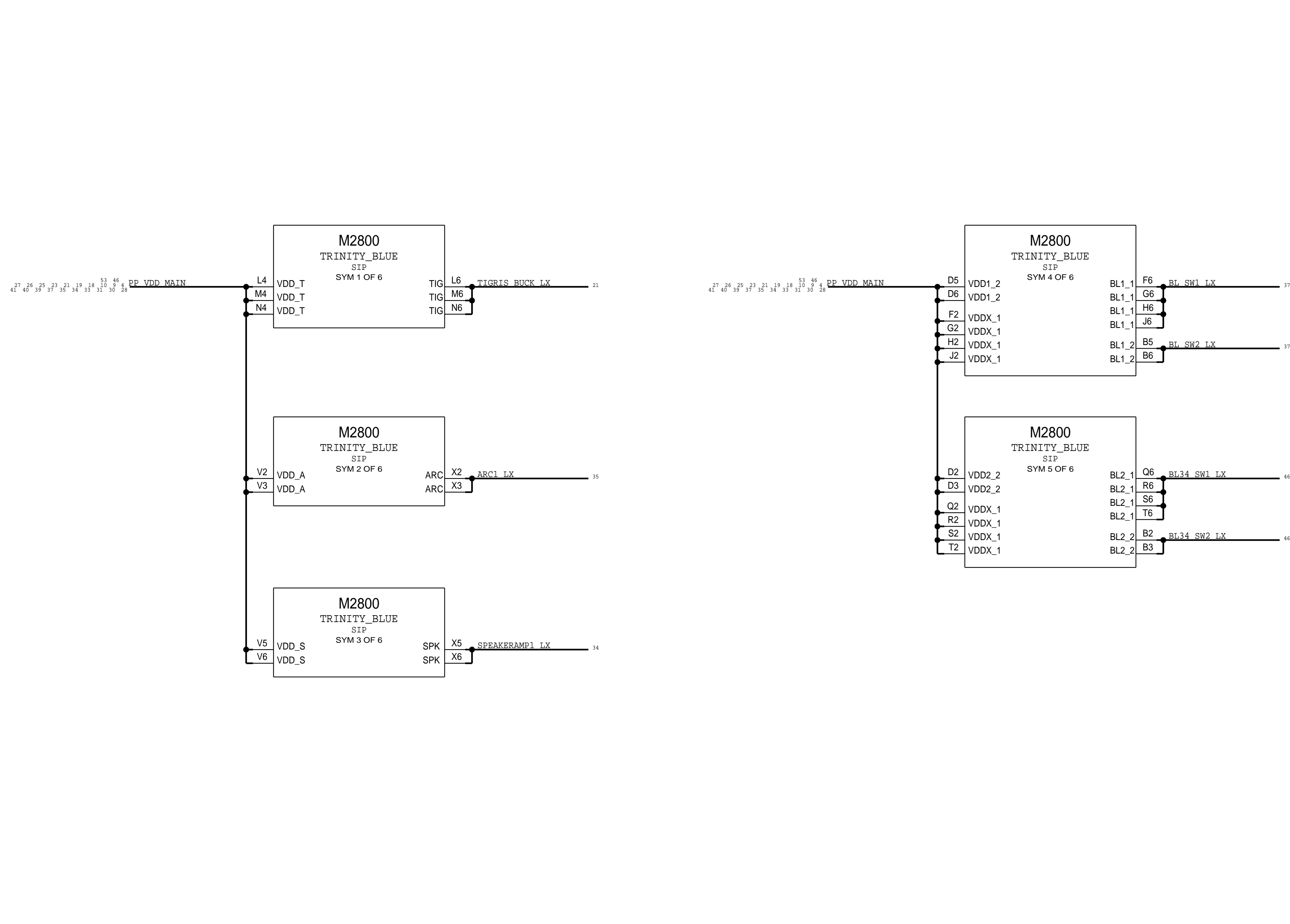



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CAMERA:STROBE DRIVER		
 Apple Inc.	DRAWING NUMBER	051-00482
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ACCESSORY BUCK



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Accessory: Buck Circuit			Accessory: Buck Circuit		
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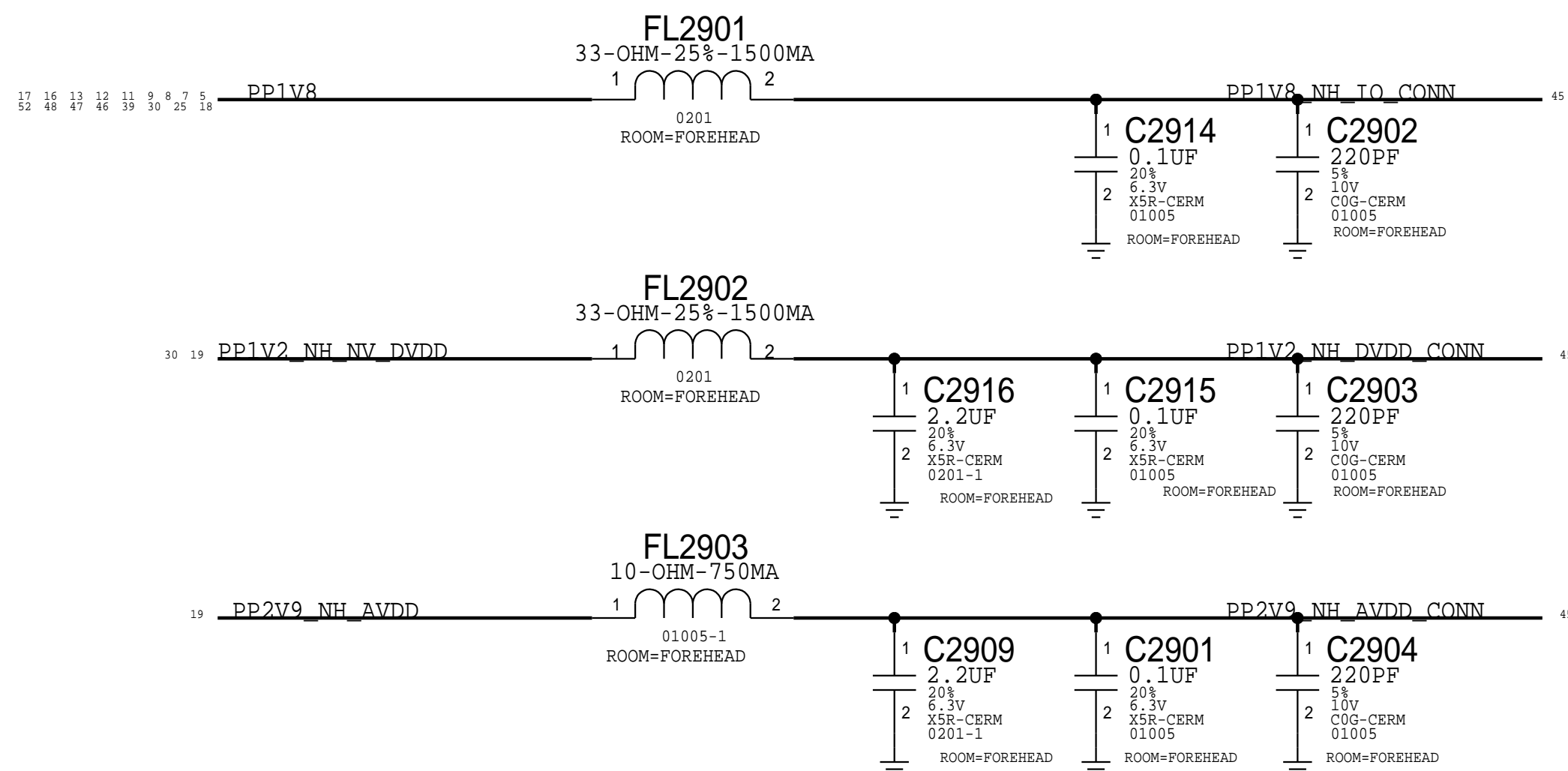
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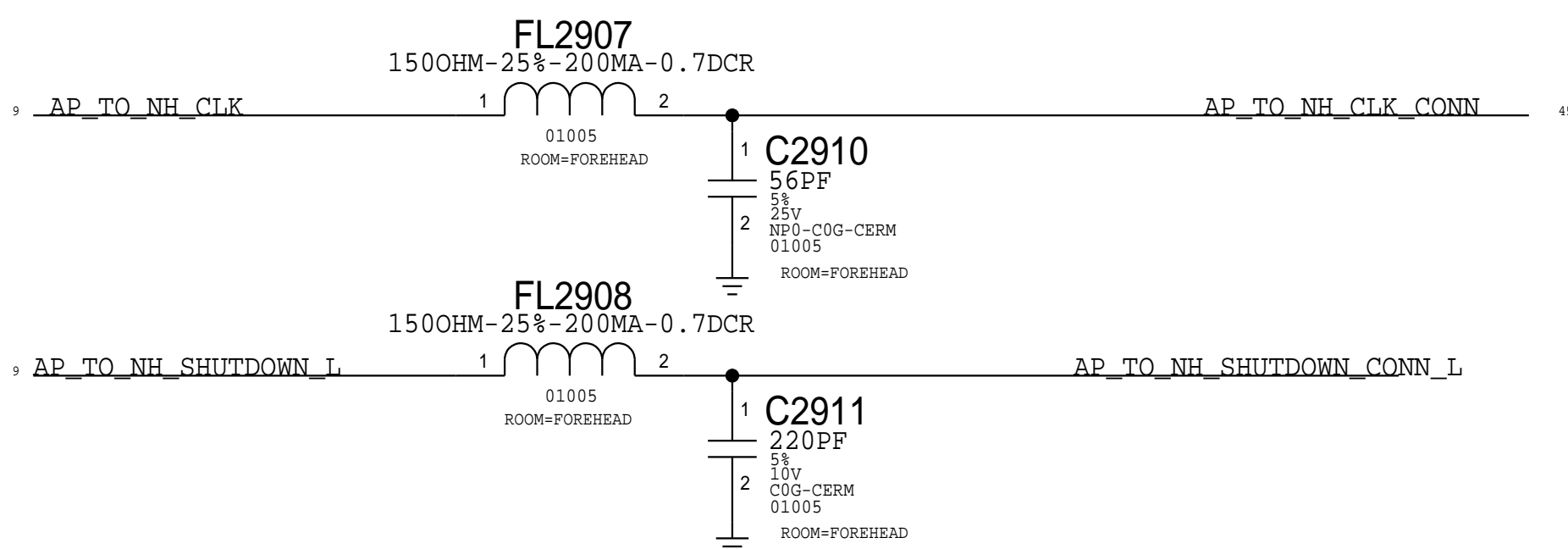
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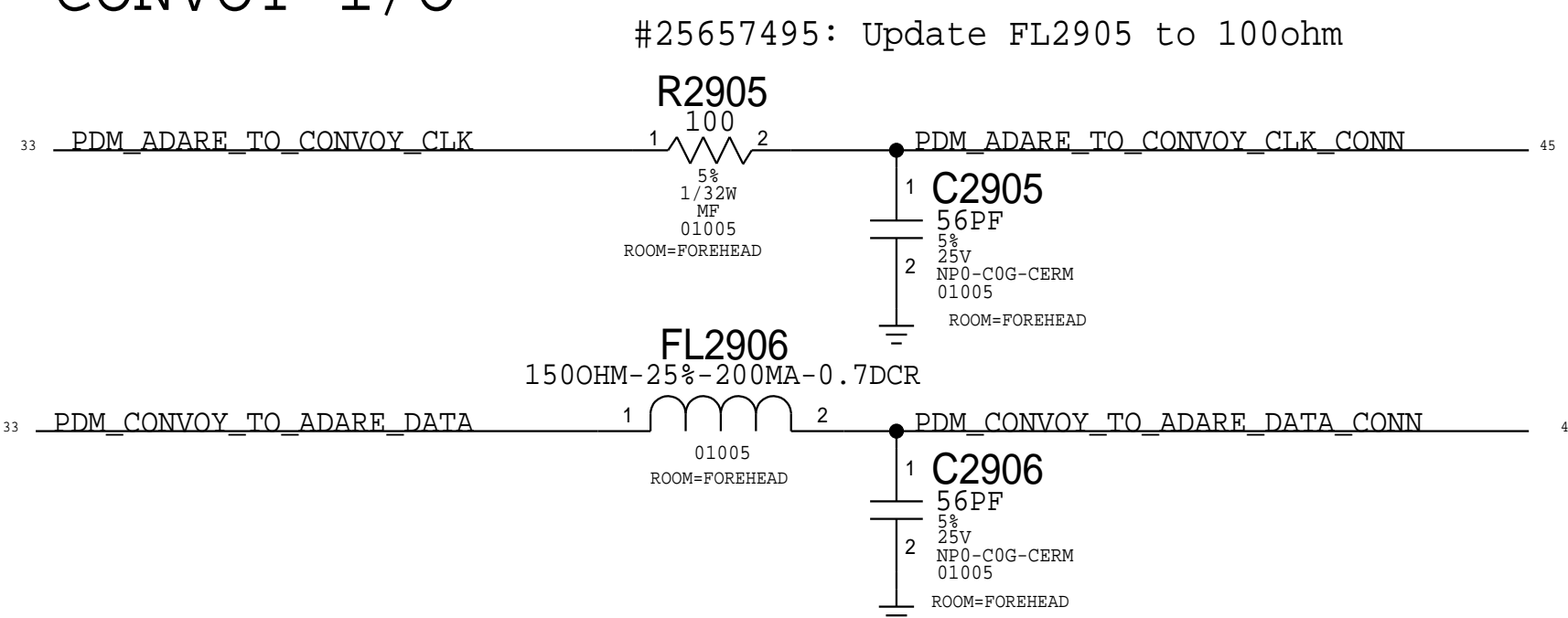
NEW HAMPSHIRE POWER



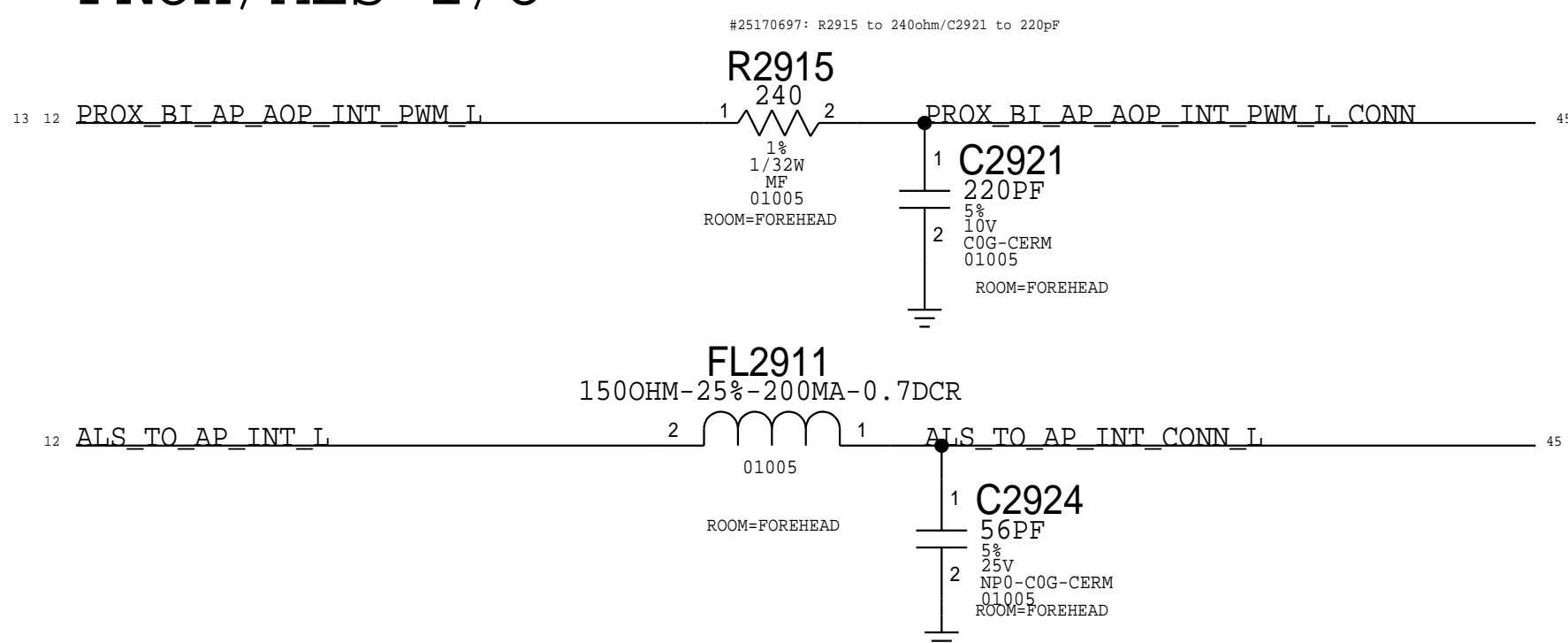
NEW HAMPSHIRE I/O



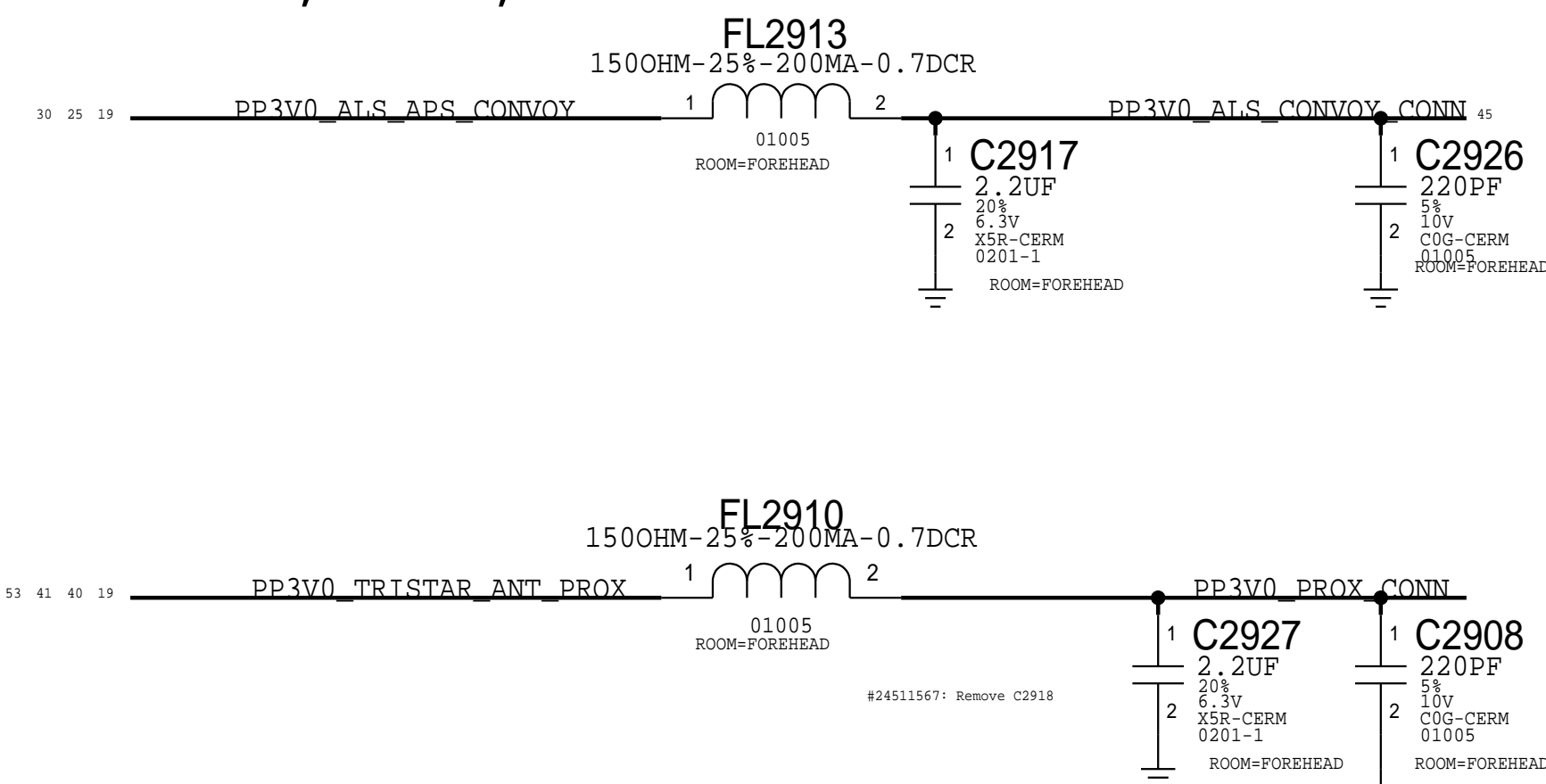
CONVOY I/O



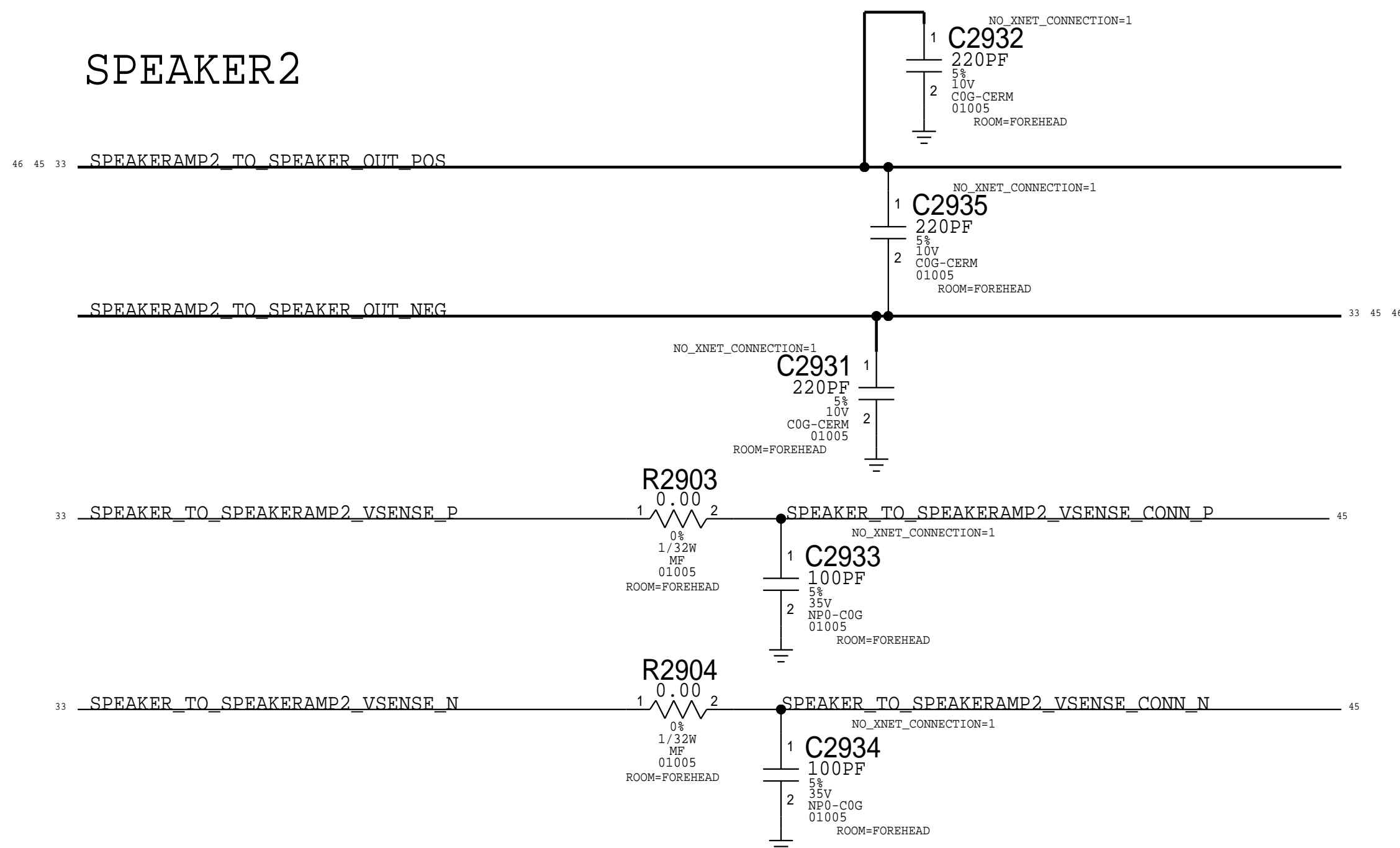
PROX/ALS I/O



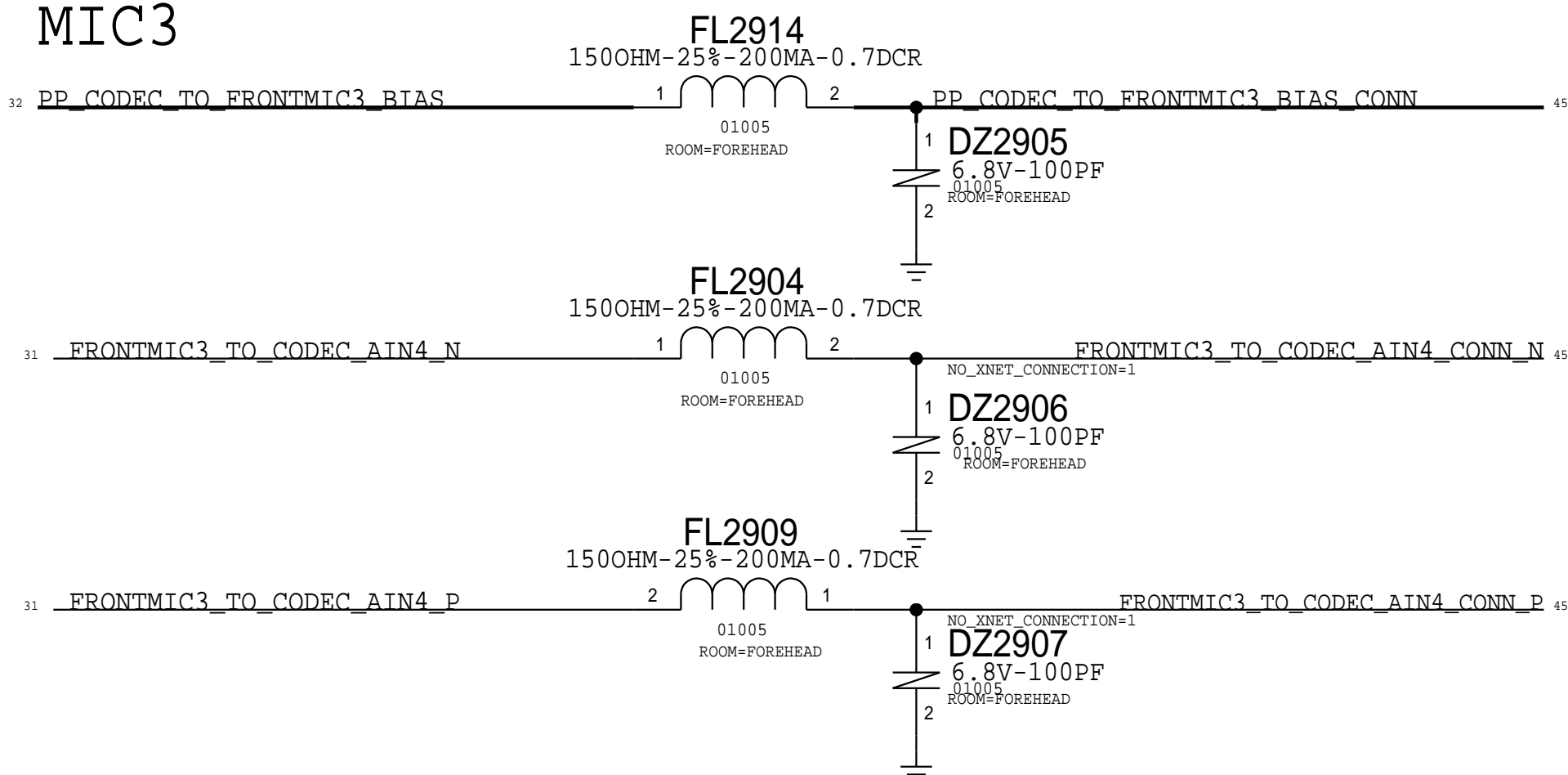
PROX, ALS, & CONVOY POWER




SPEAKER2



MIC3



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B2B:FOREHEAD			
 Apple Inc.	DRAWING NUMBER		SIZE
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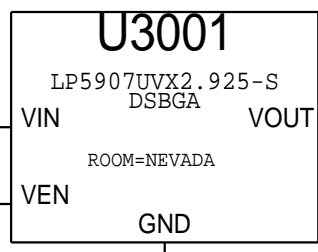
3

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NEVADA POWER

NOTE: OUTPUT IMPEDANCE MUST BE >0.005-OHM
IN ORDER TO MEET CAP ESR REQUIREMENT PER LDO SPEC.
VENDOR ALSO RECOMMENDS CIN = COUT FOR STABILITY



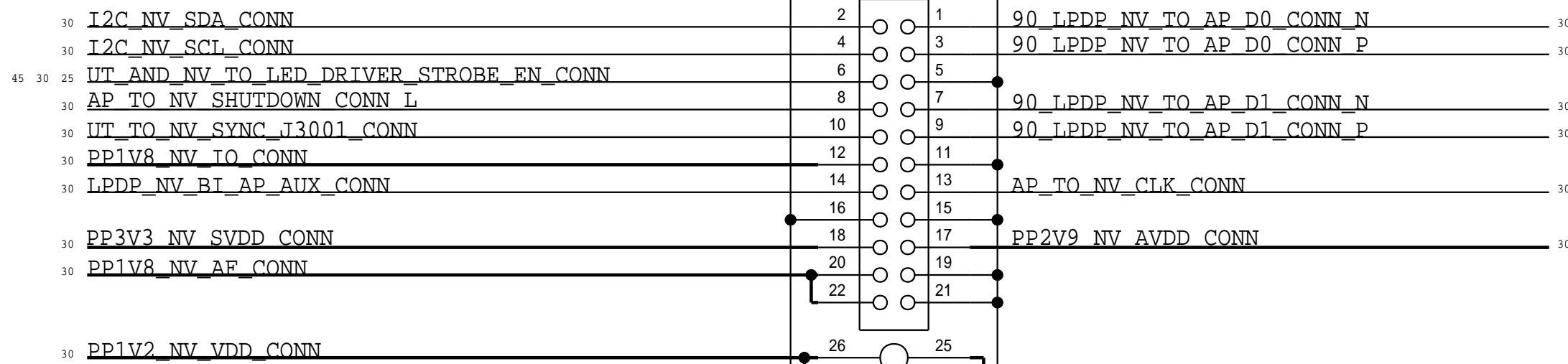
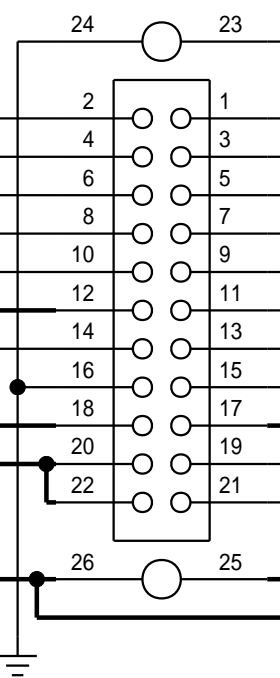
NEVADA CONNECTOR

THIS ONE ---> 516S00152 RCPT (USED ON MLB)
516S00151 PLUG

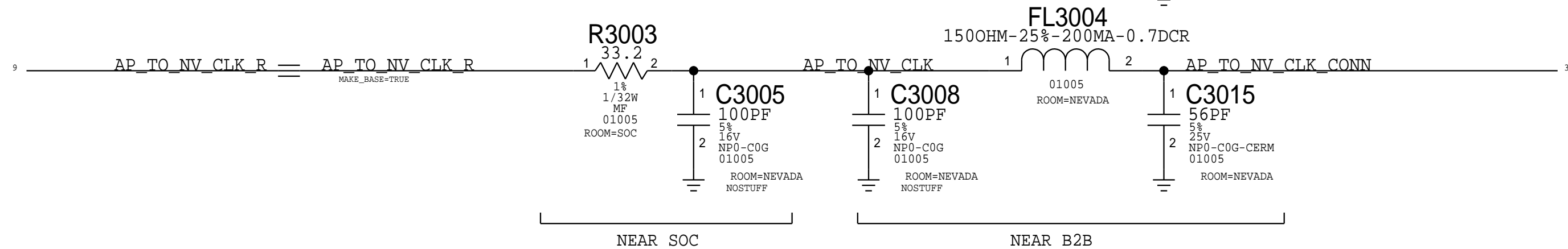
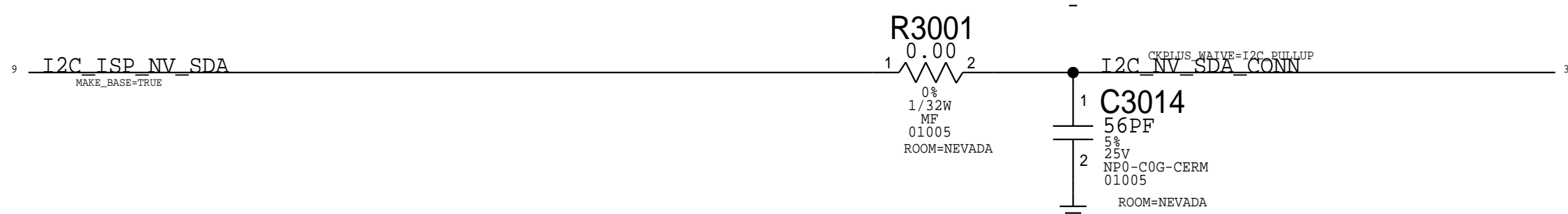
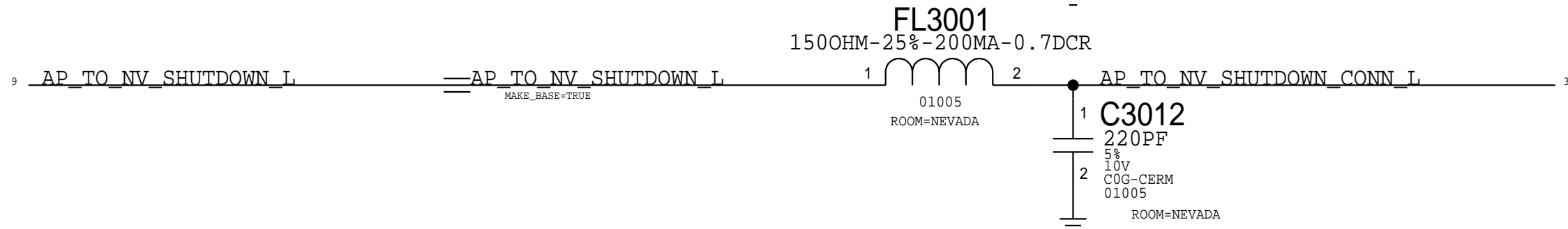
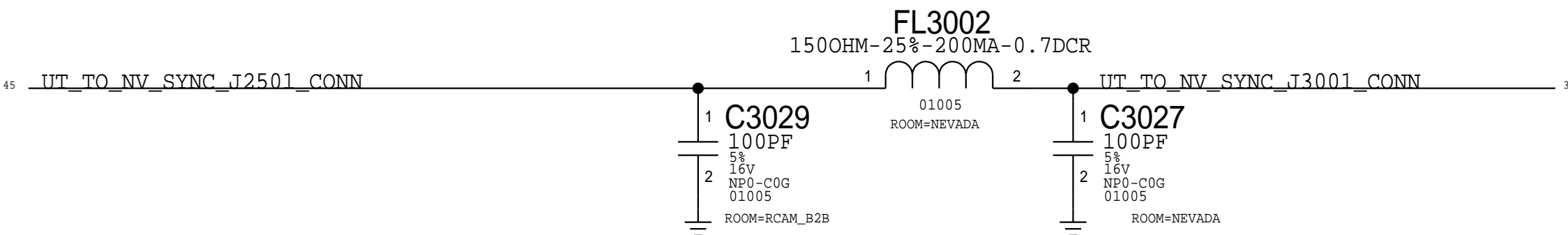
THIS PAGE UNIQUE TO LARGE FORM FACTOR

OTHER FORM FACTOR SPECIFIC PAGES:
4 - Mechanical
46 - FF Specific

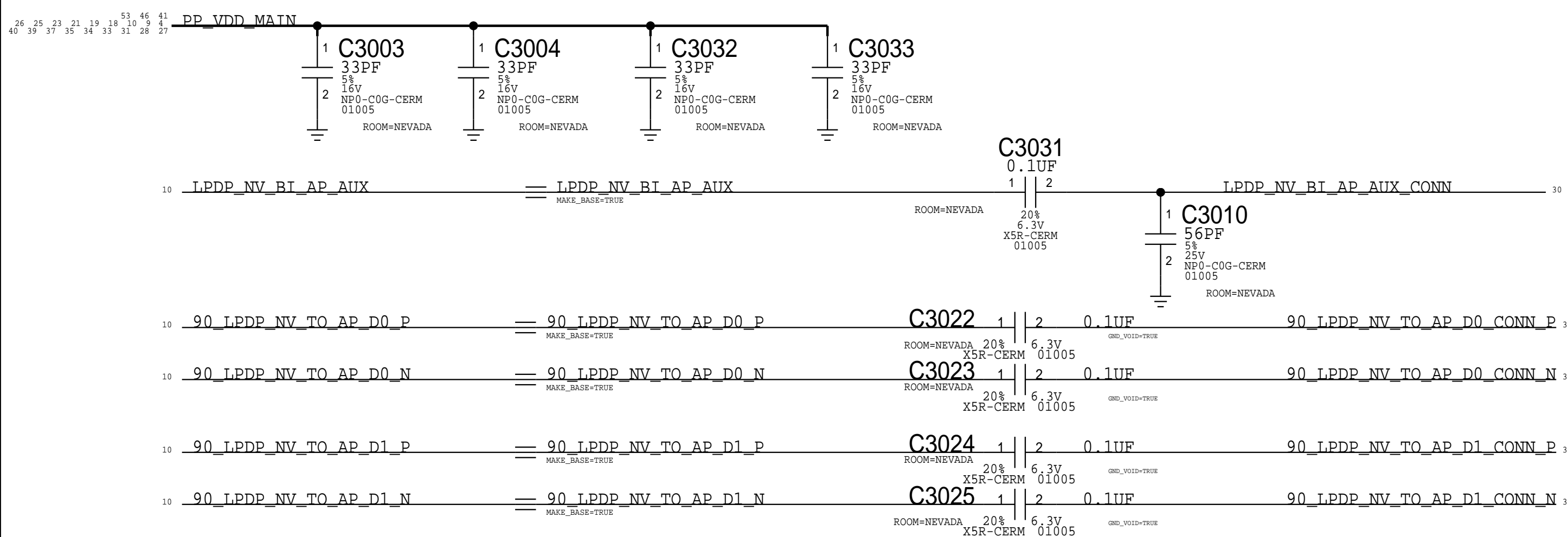
ROOM=NEVADA
J3001
AA26D-S022VA1
F-ST-SM



GPIO FILTERS



LPDP FILTERS



PAGE TITLE			
B2B:NEVADA			
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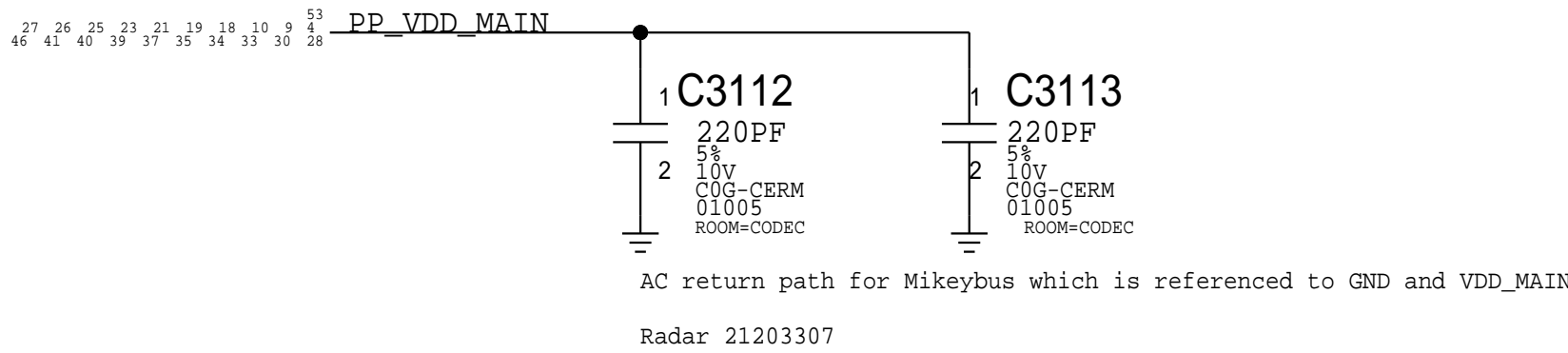
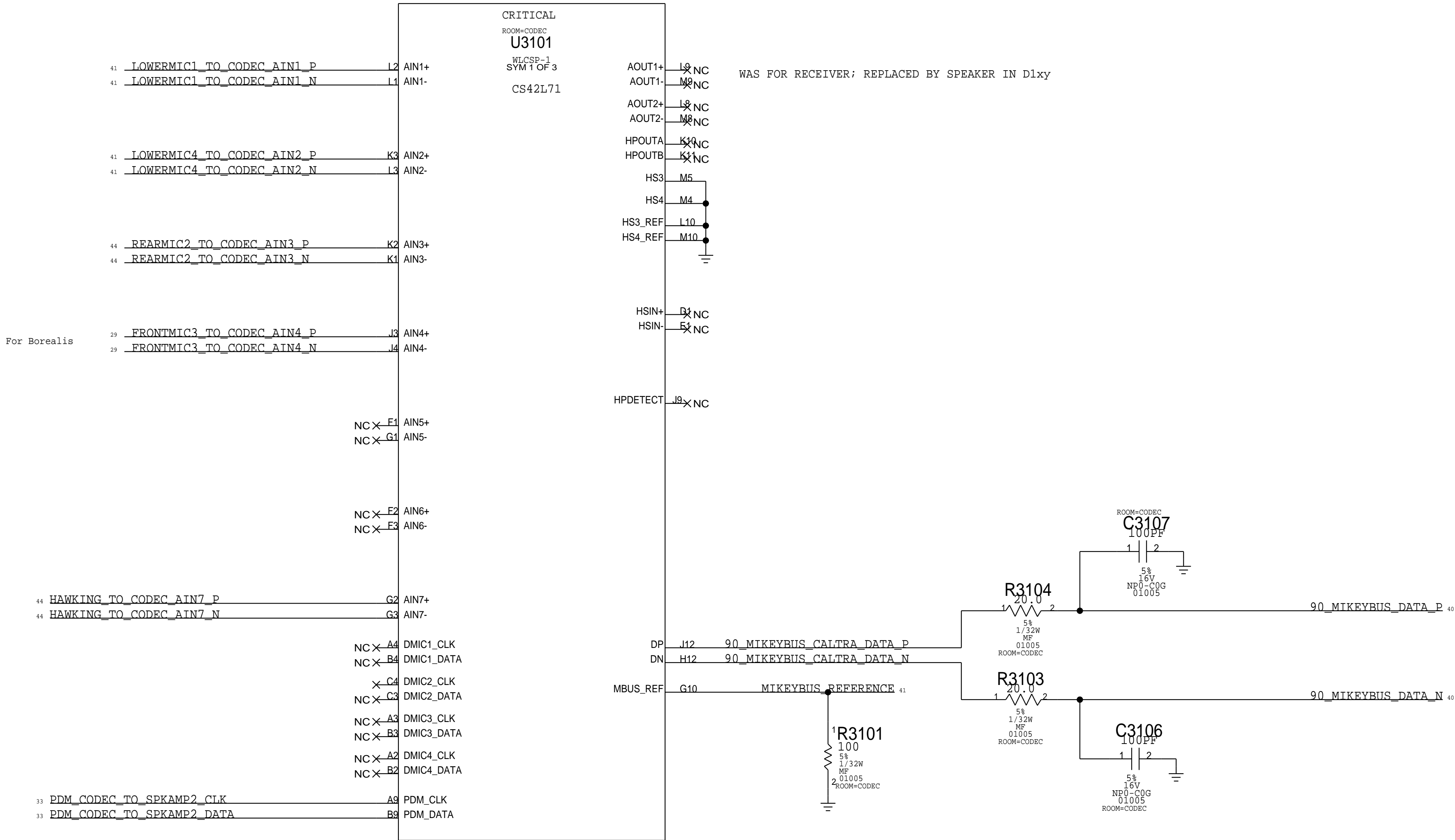
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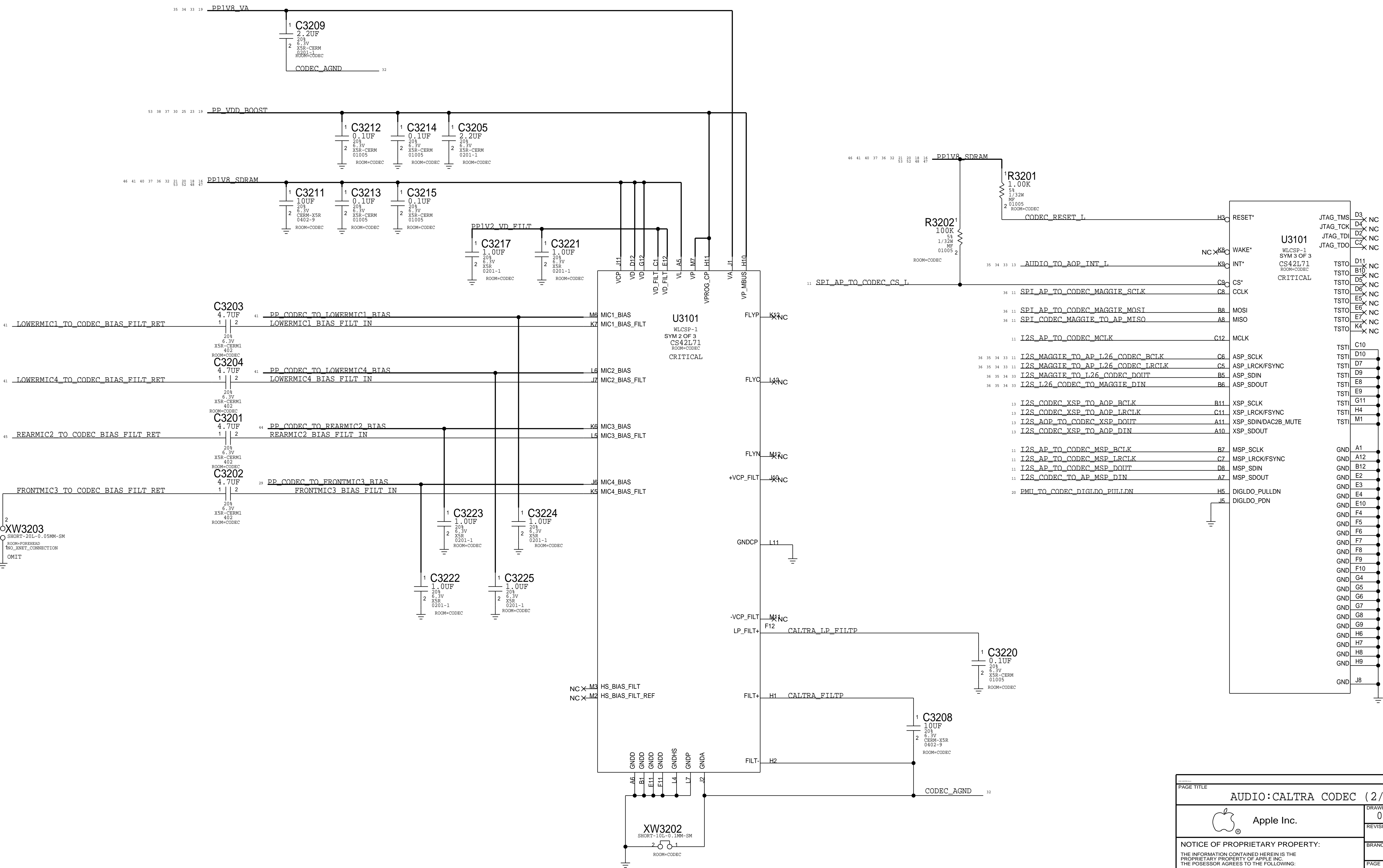
1

CALTRA AUDIO CODEC (ANALOG INPUTS & OUTPUTS)

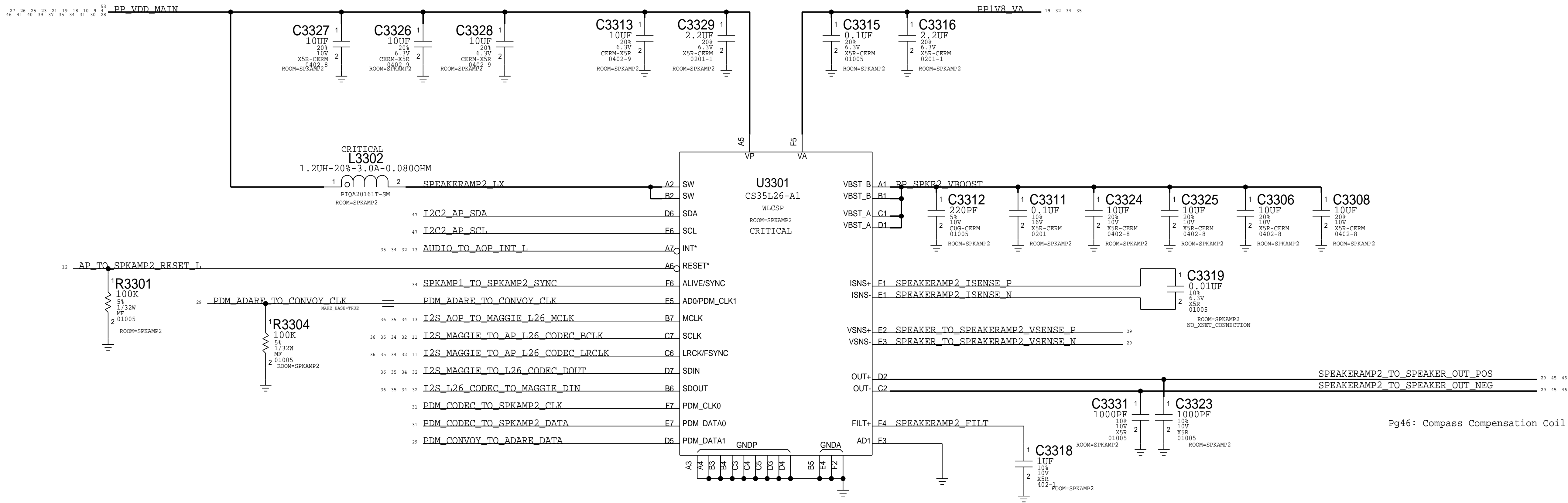


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AUDIO:CALTRA CODEC (1/2)		
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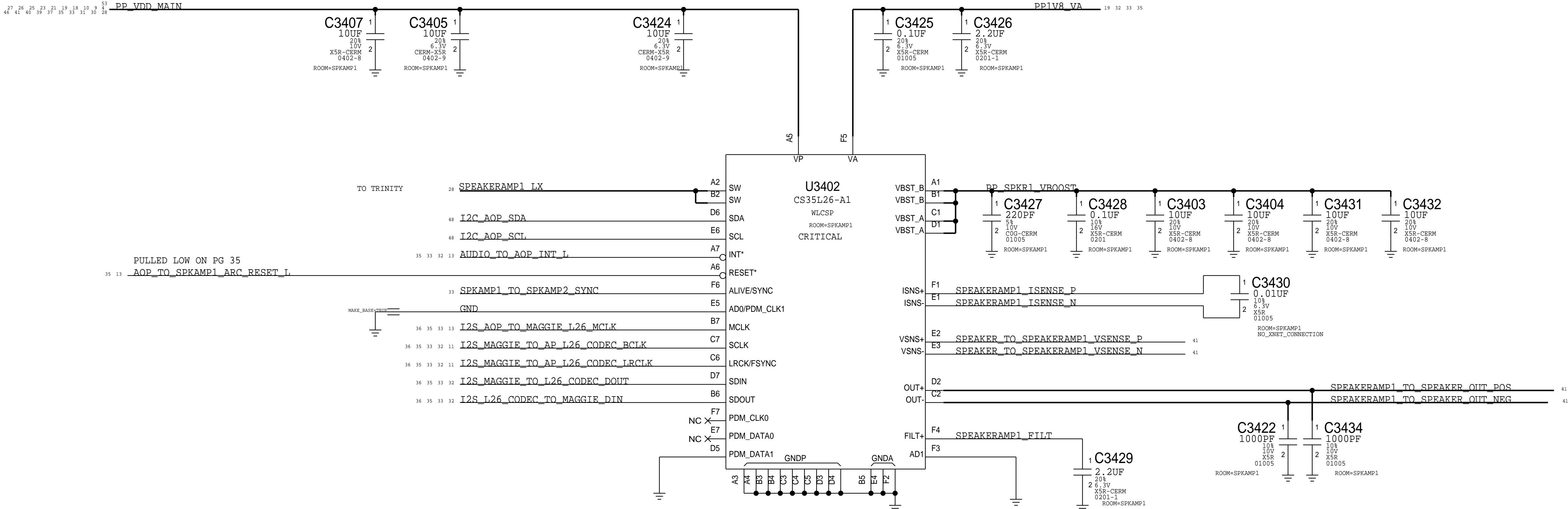
CALTRA AUDIO CODEC (POWER & I/O)




SPEAKER AMPLIFIER 2 (North)

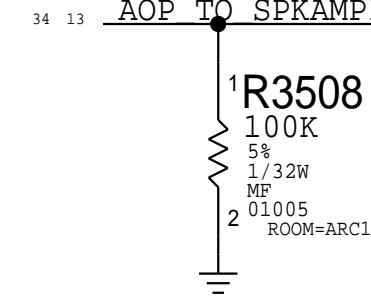


(South)



AUDIO: SPEAKER AMP 1		DRAWING NUMBER 051-00482		SIZE D
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ARC D



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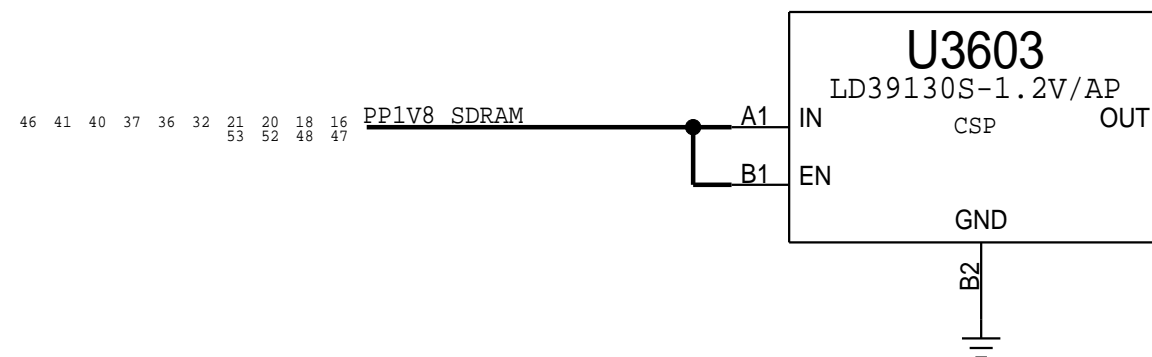
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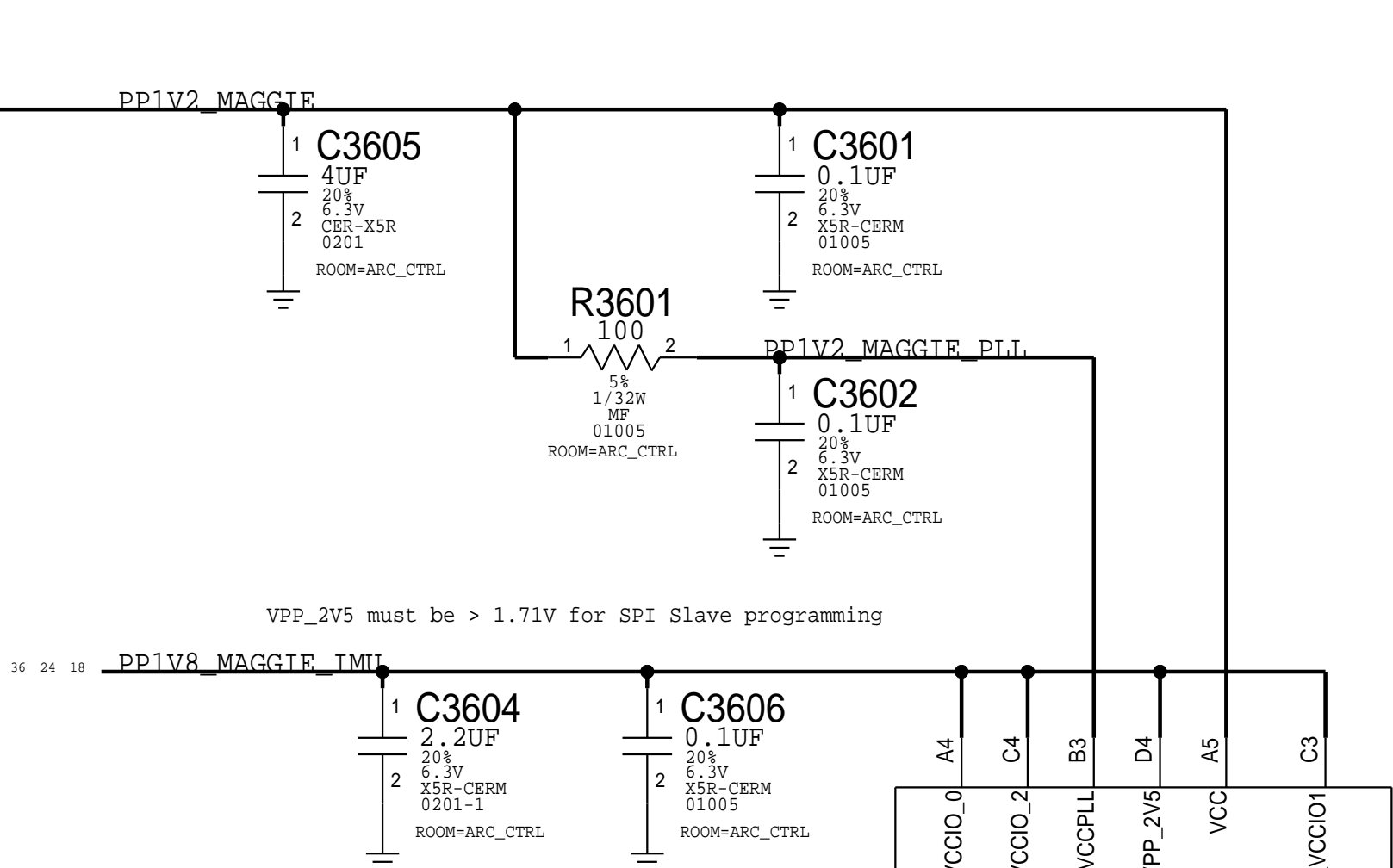
MAGGIE LDO

APN: 353S00842



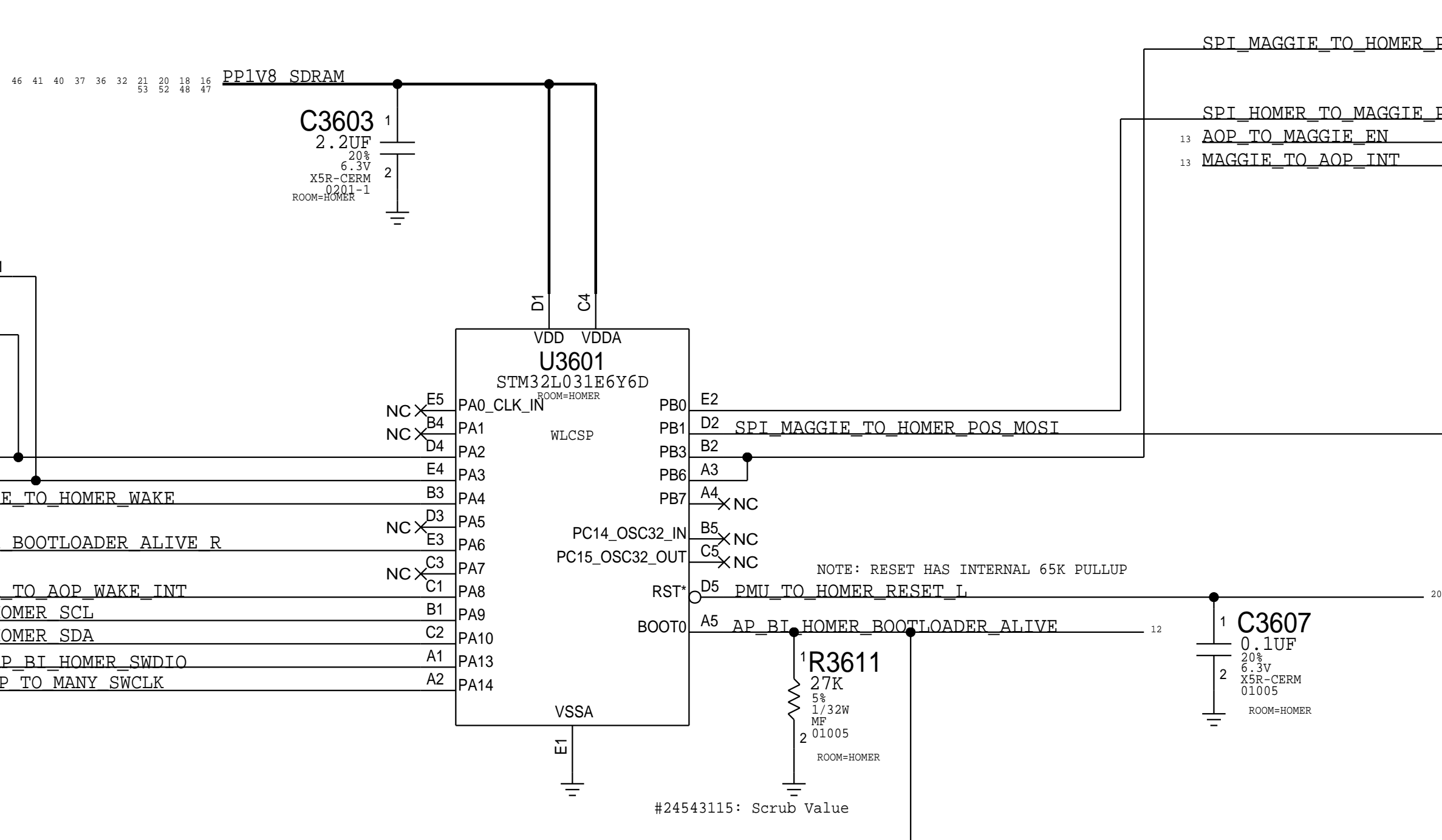
MAGGIE


APN: 336S00020



HOMER STM32L0 MICRO

STM32L03 APN: 337S00231



PAGE TITLE			
ARC:MAGGIE			
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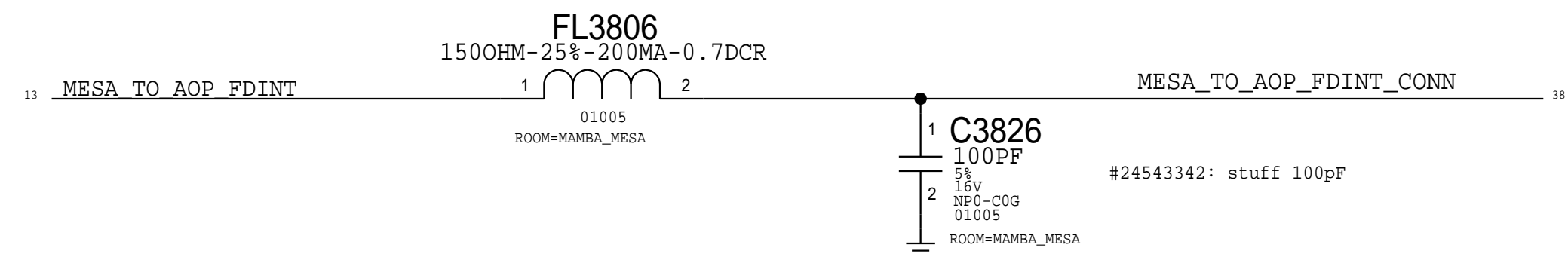
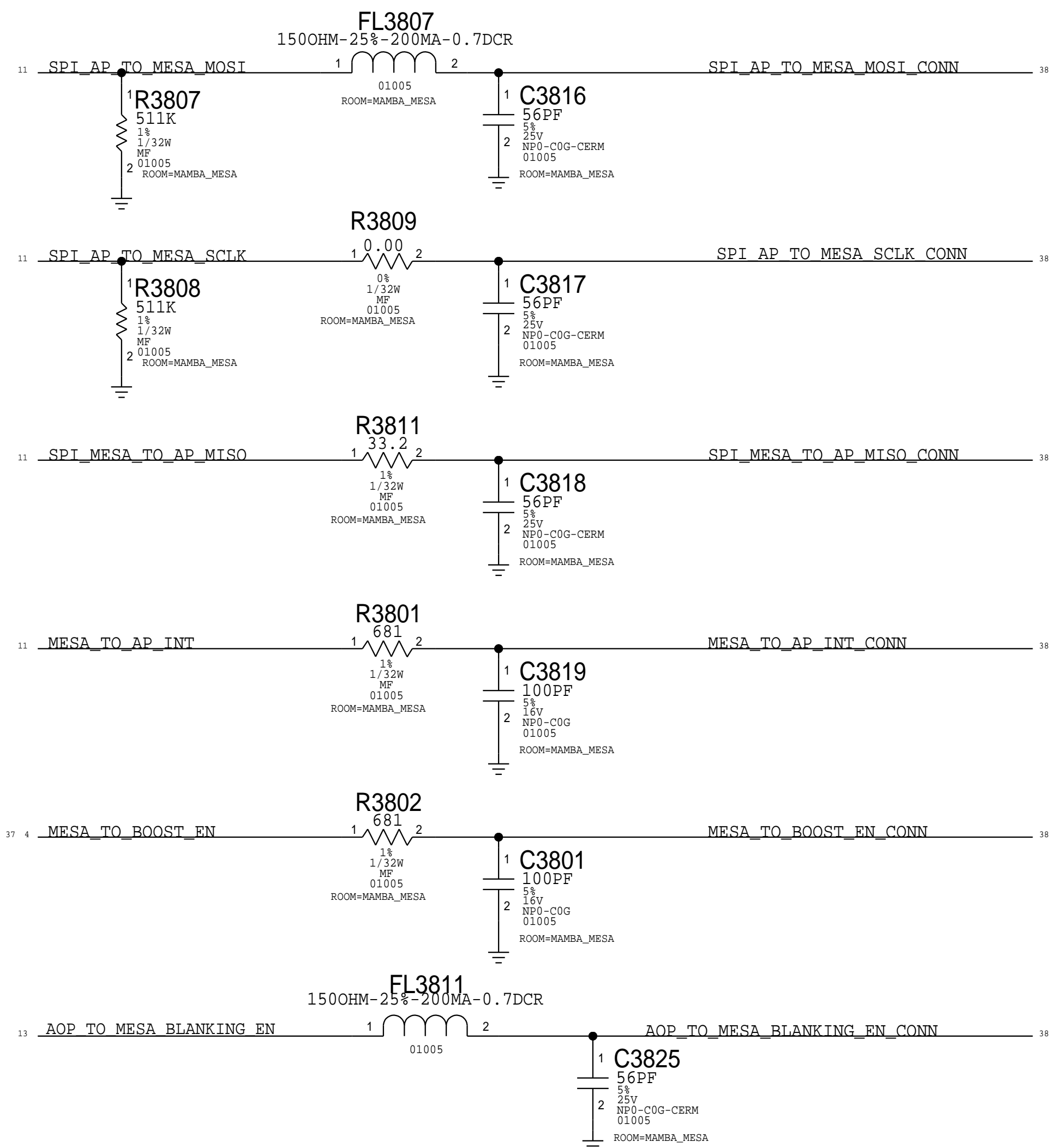
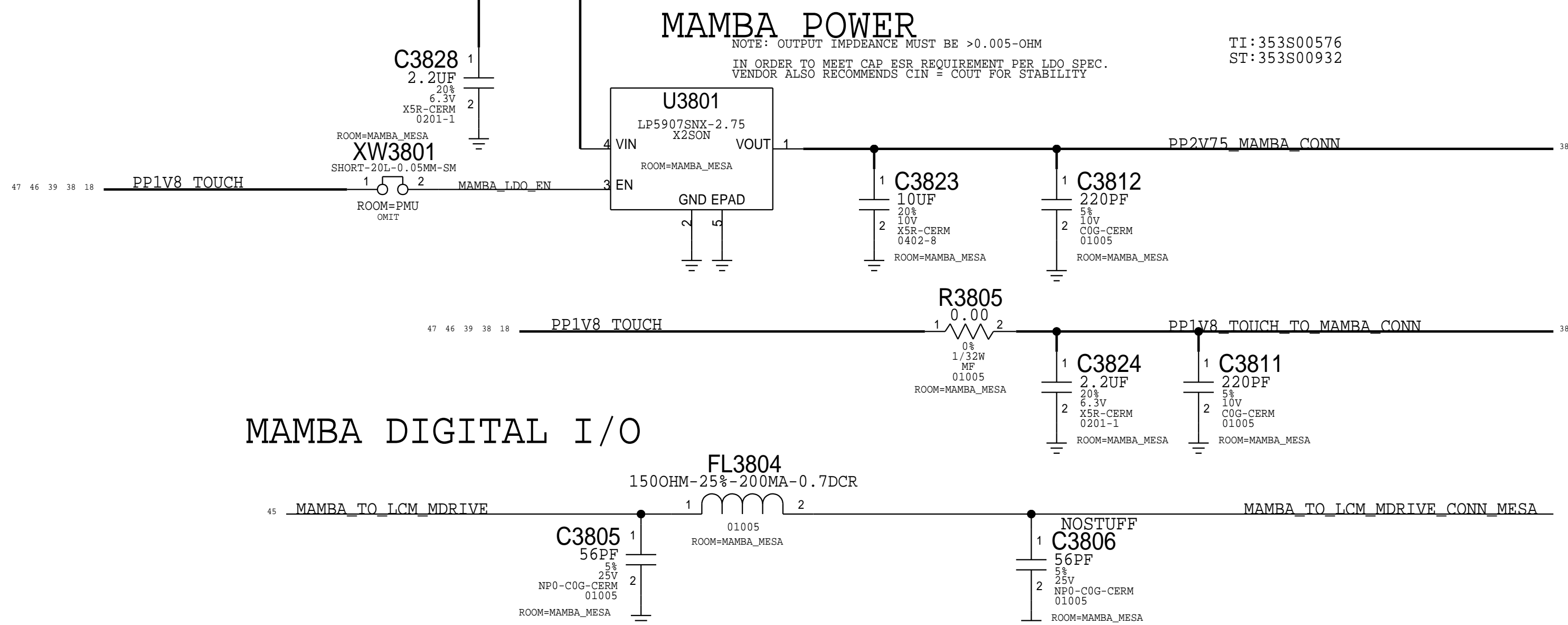
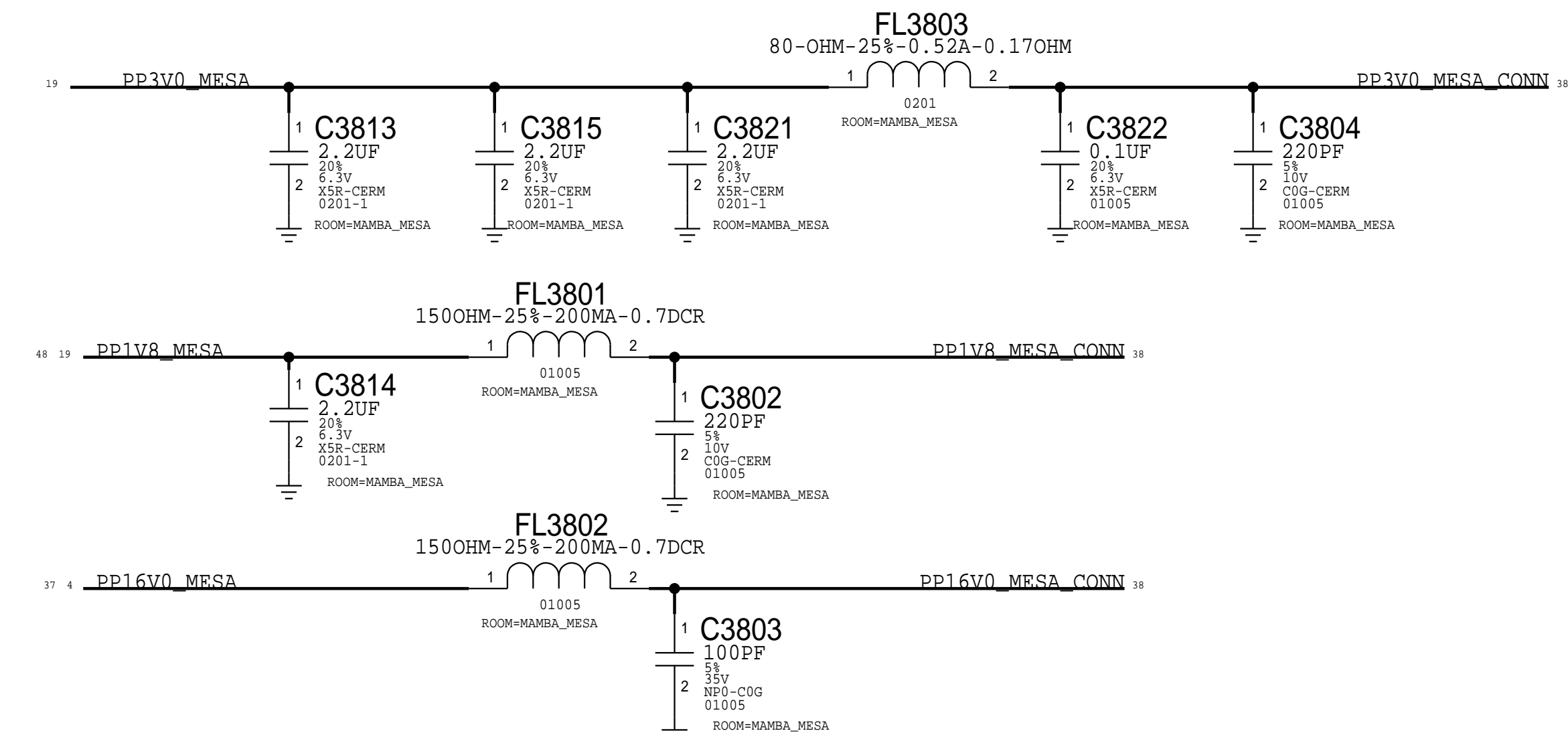
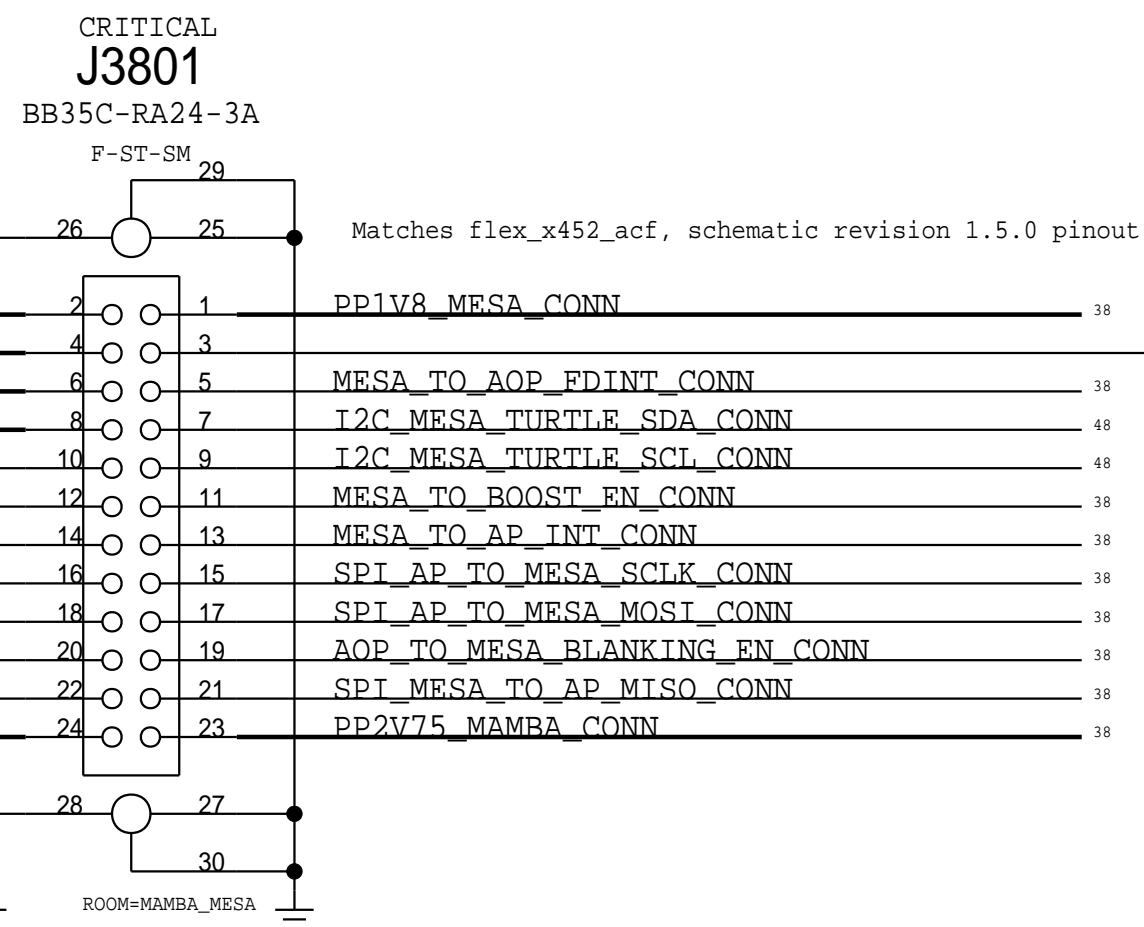
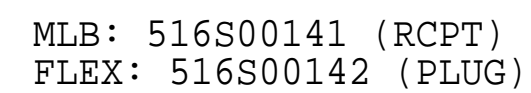



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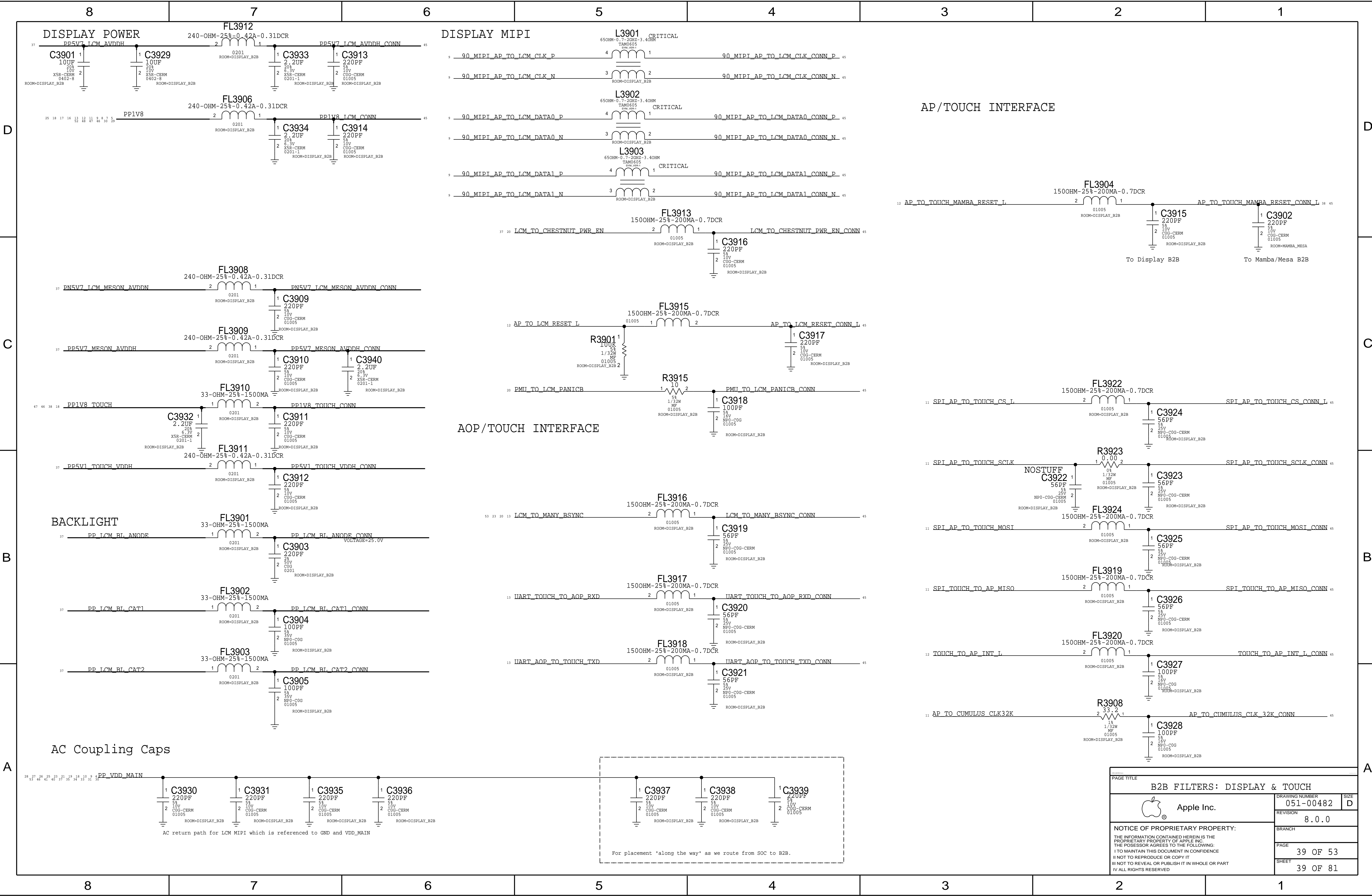


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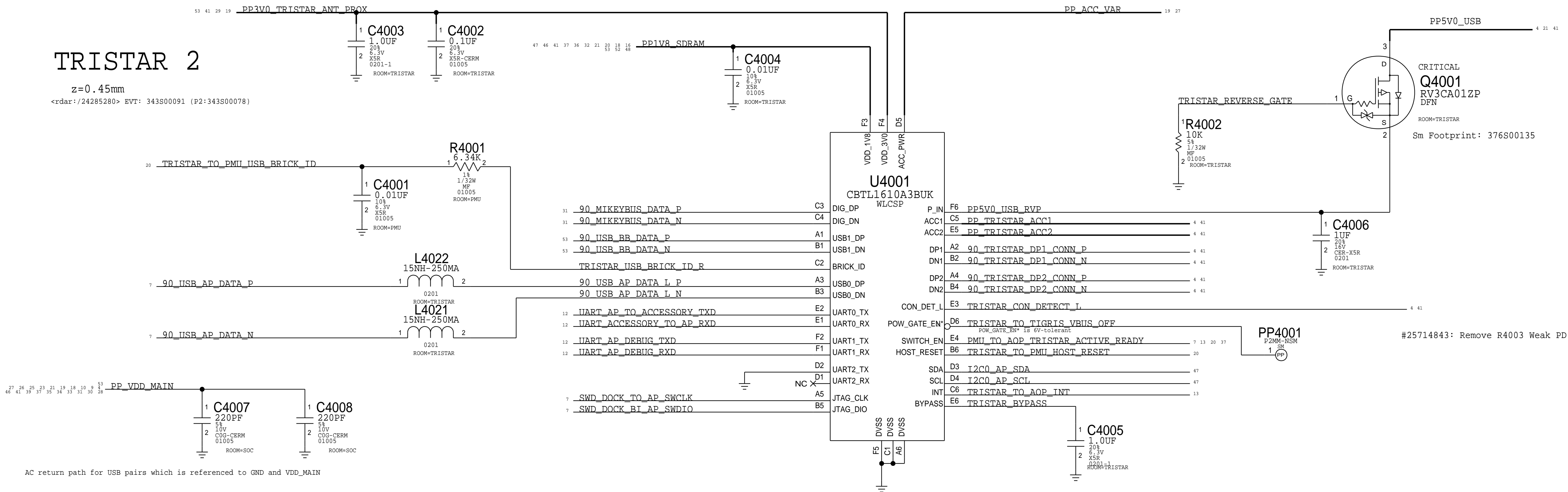



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TRISTAR 2

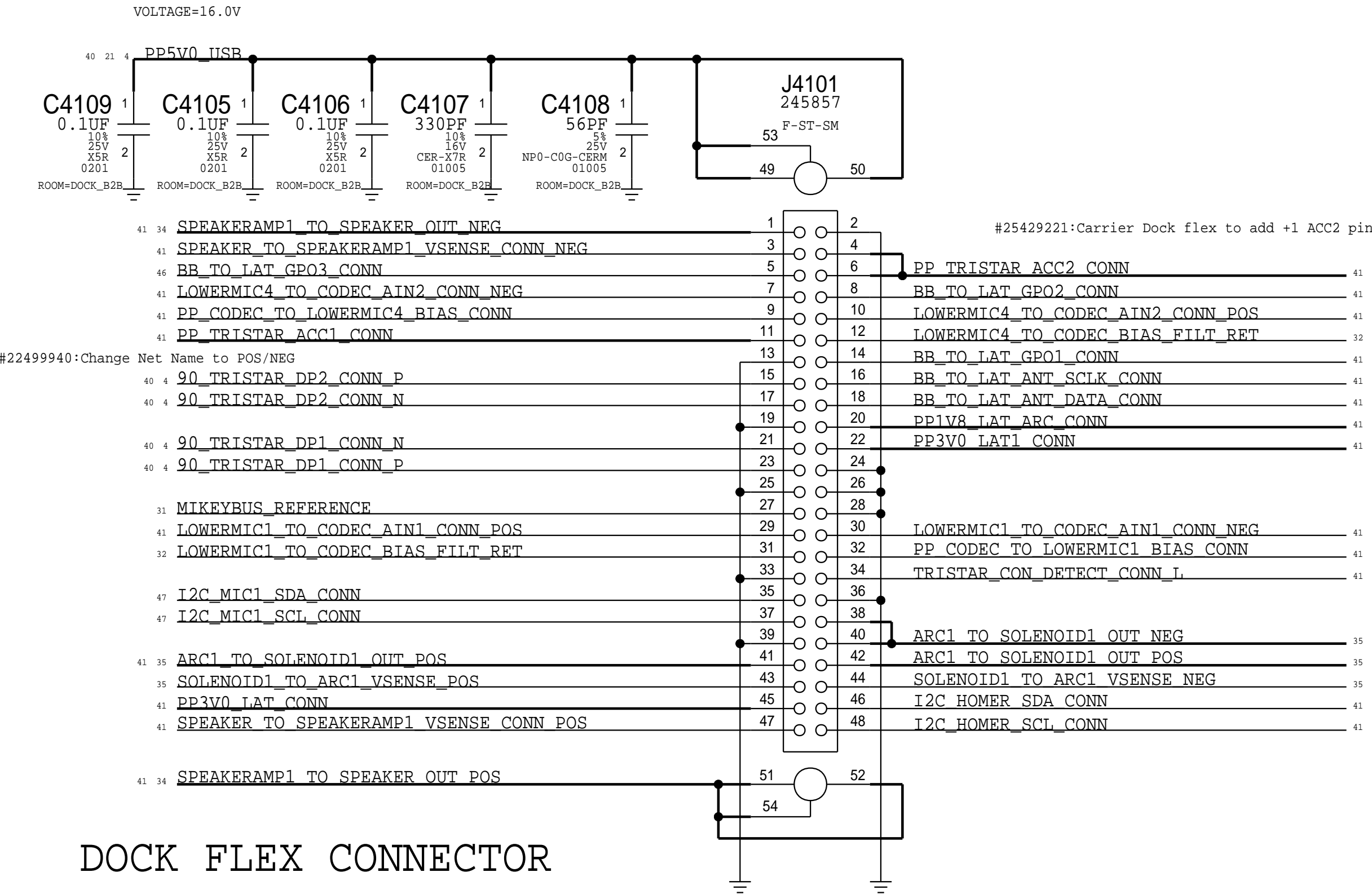
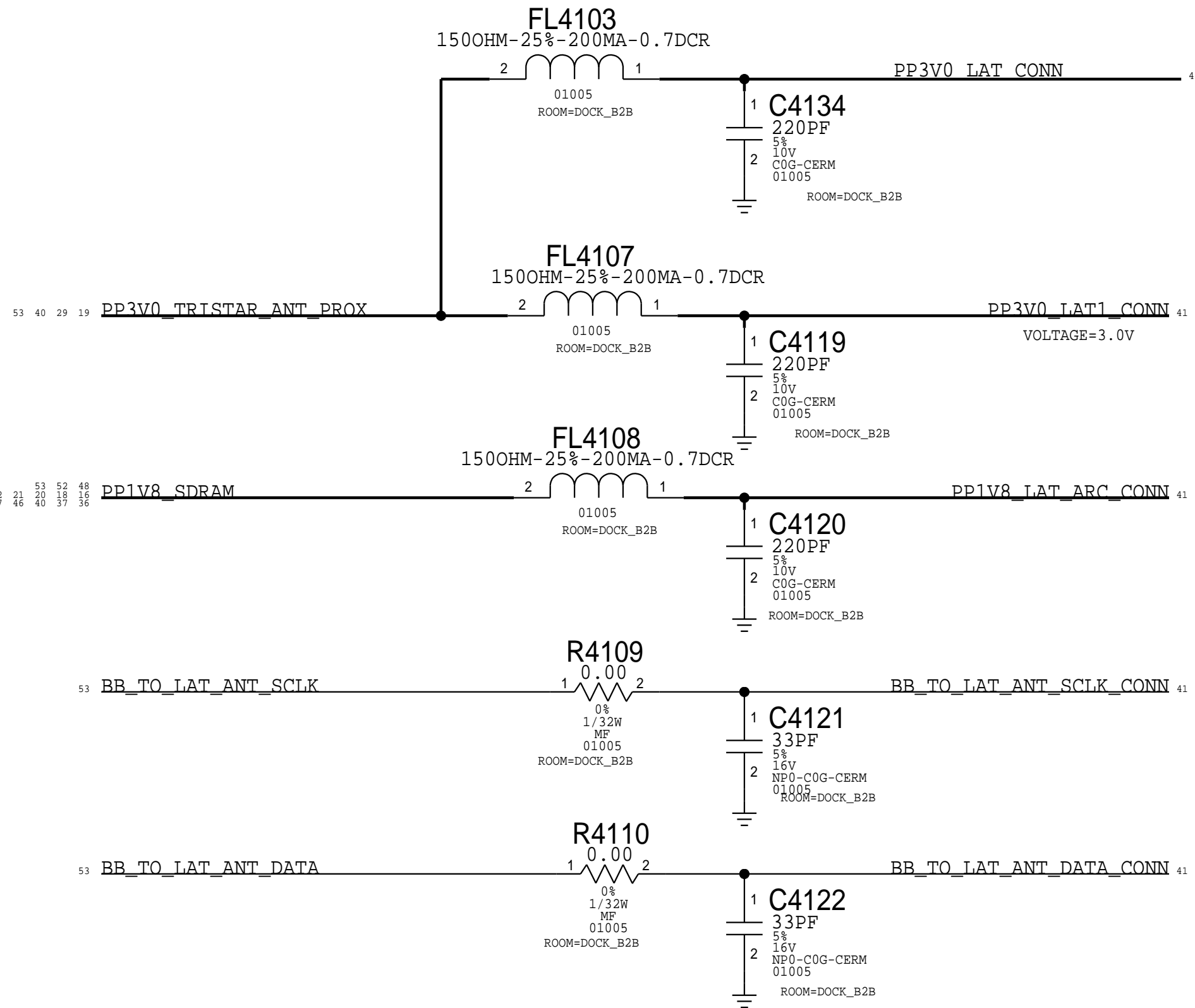
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<rdar:24285280> EVT: 343S00091 (P2:343S00078)



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TRISTAR 2			
 Apple Inc.	DRAWING NUMBER	051-00482	
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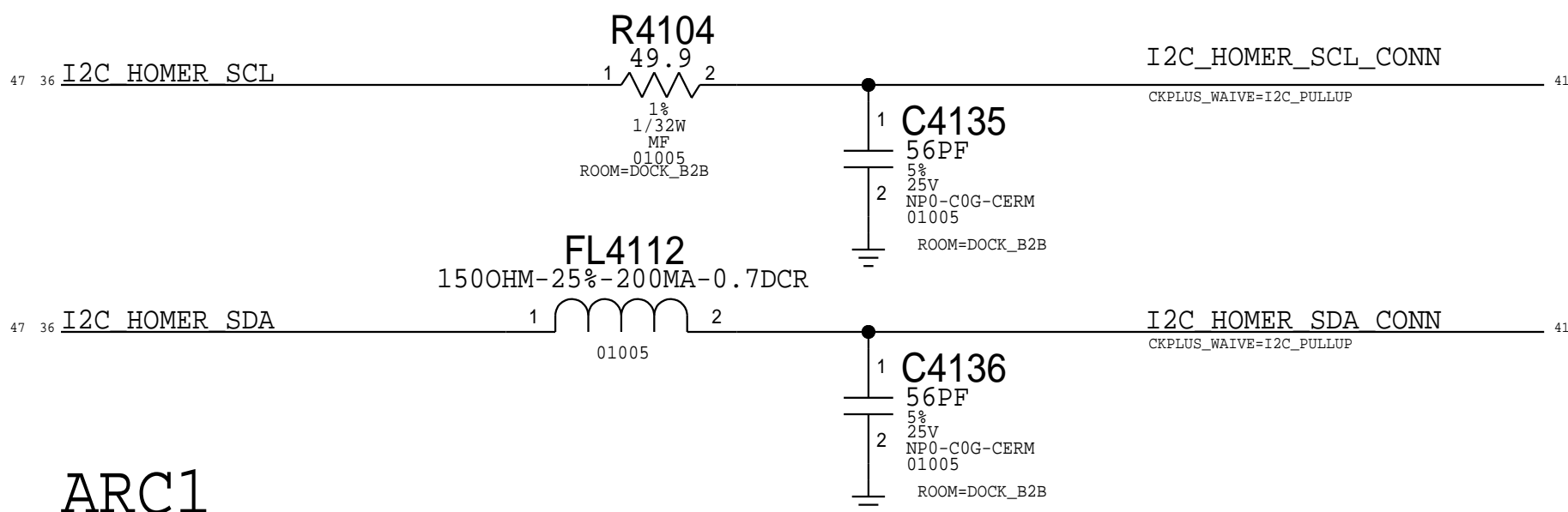
ANTENNA

Please loop in Matt Mow (Antenna Team)
when changing these components!

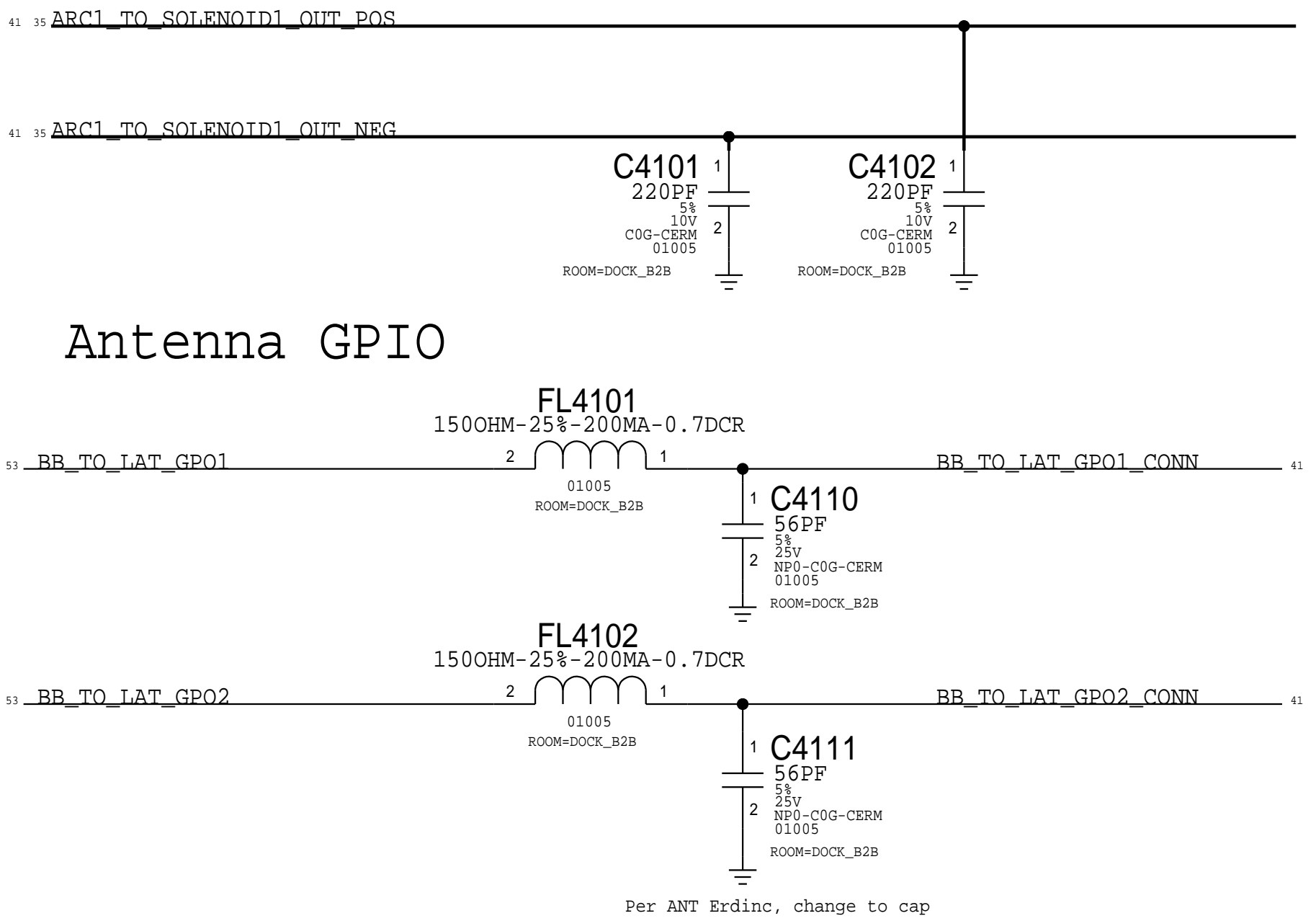


ARC CONTROL

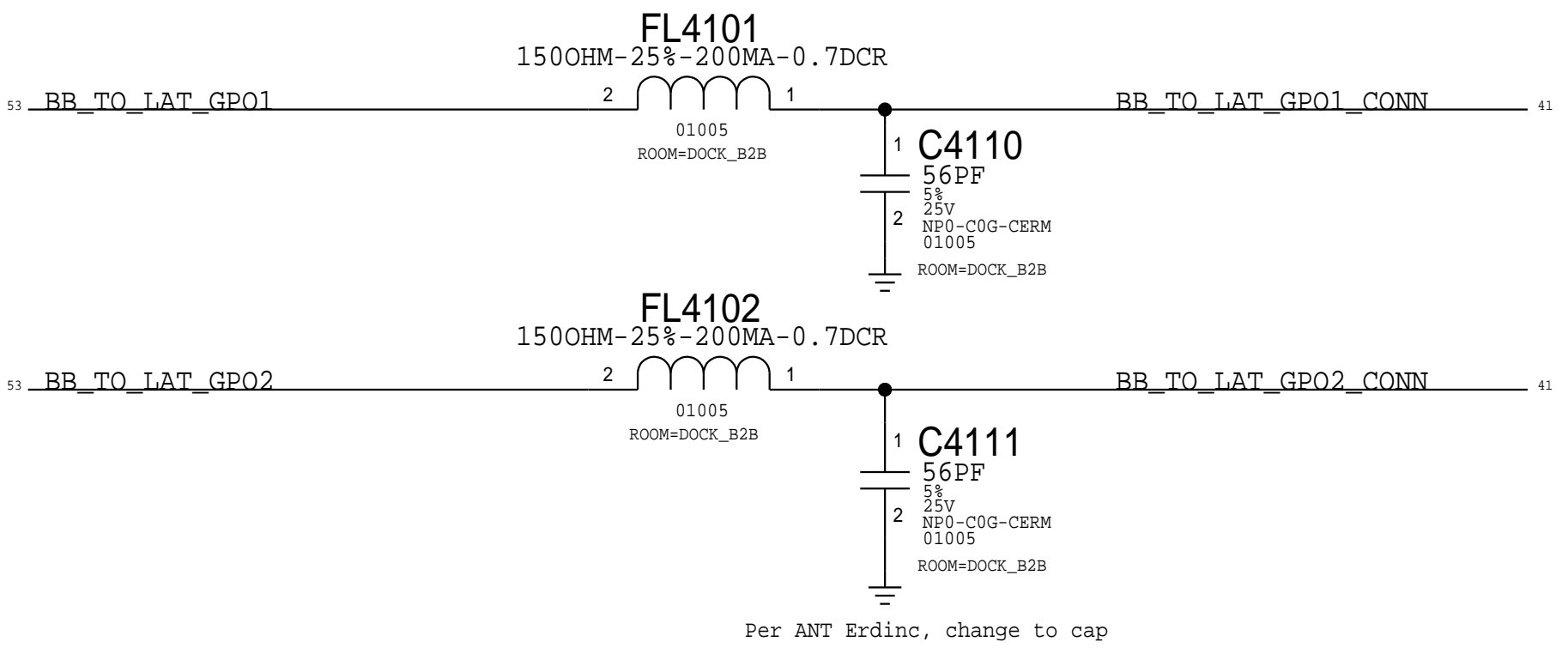
#26118161: Update FL4104 to 49.9ohm



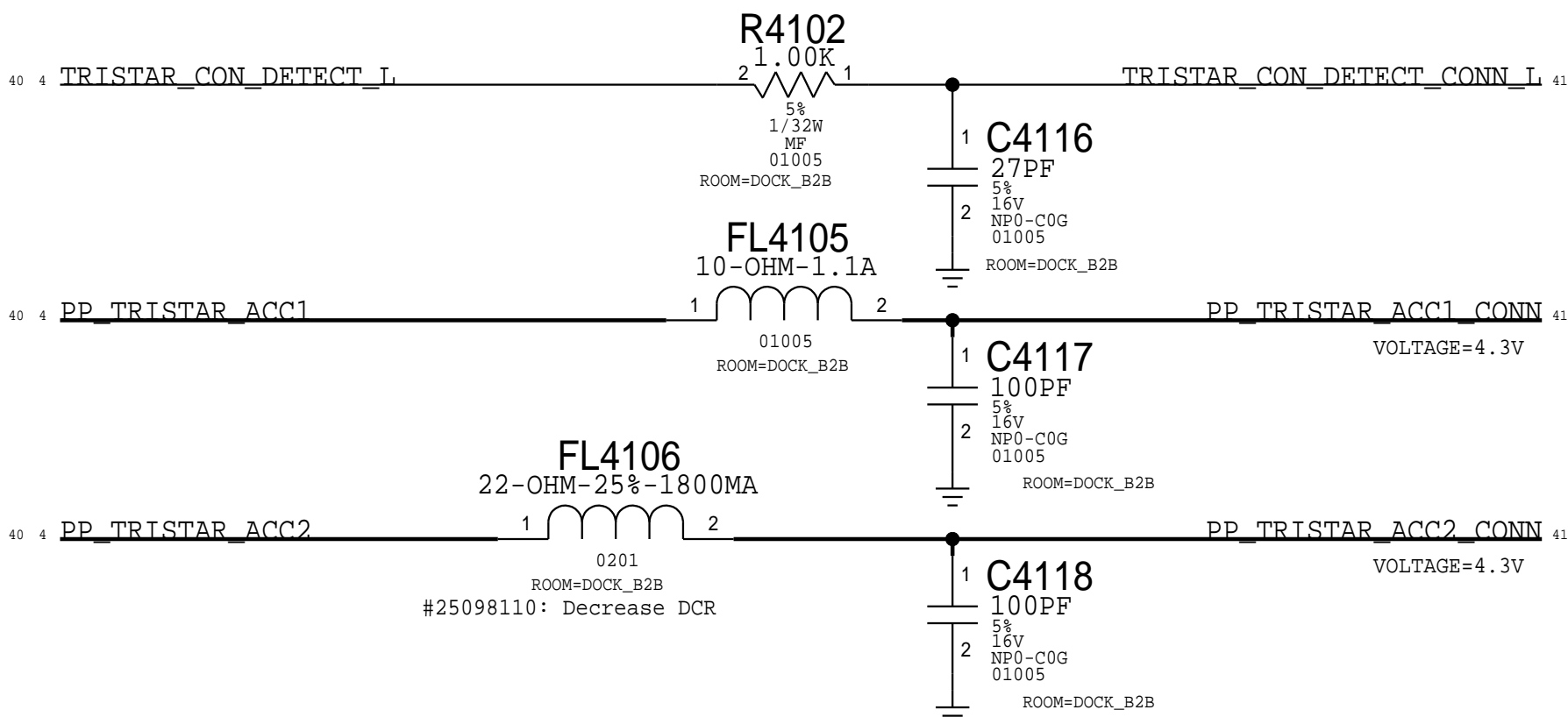
ARC1



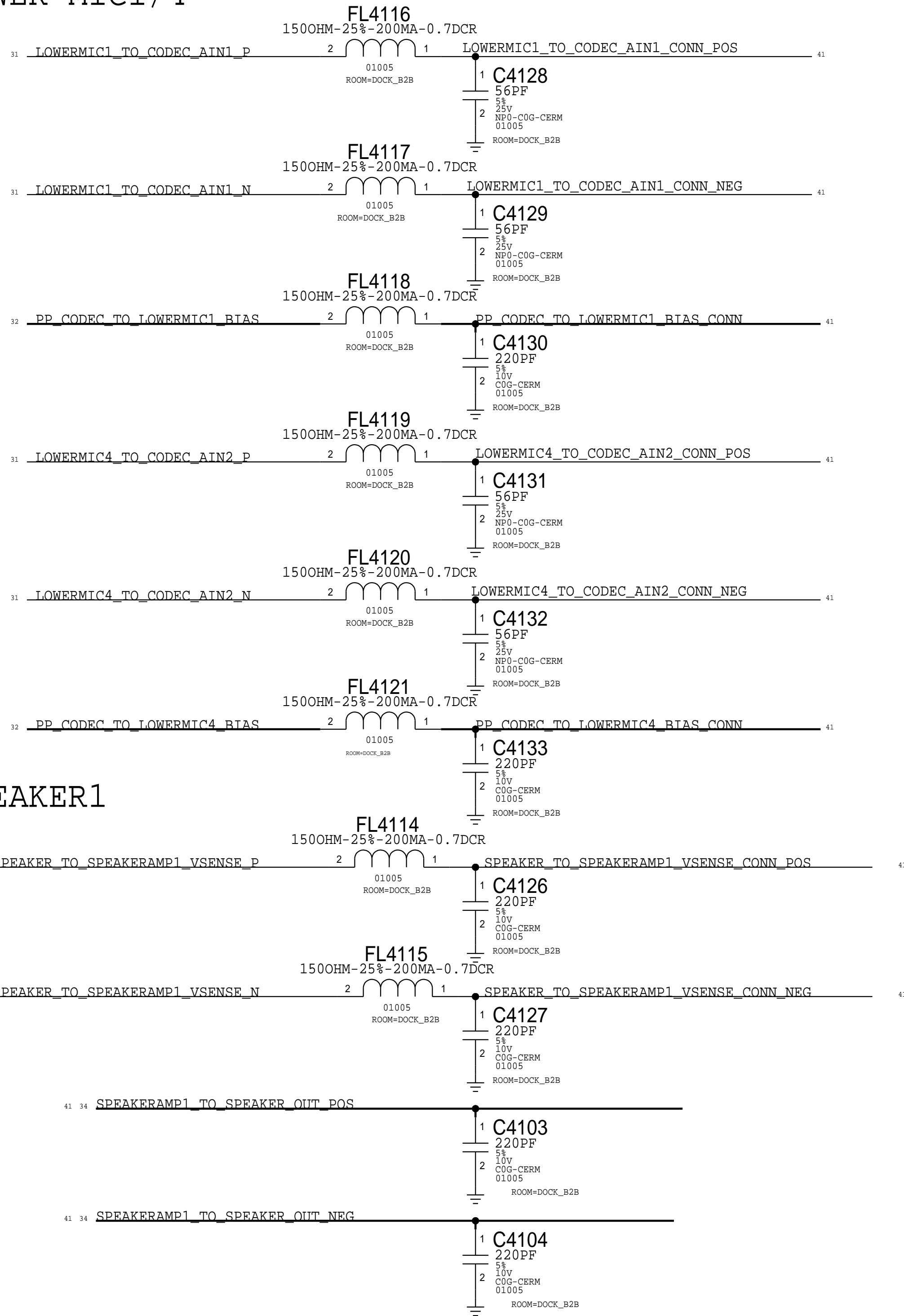
Antenna GPIO



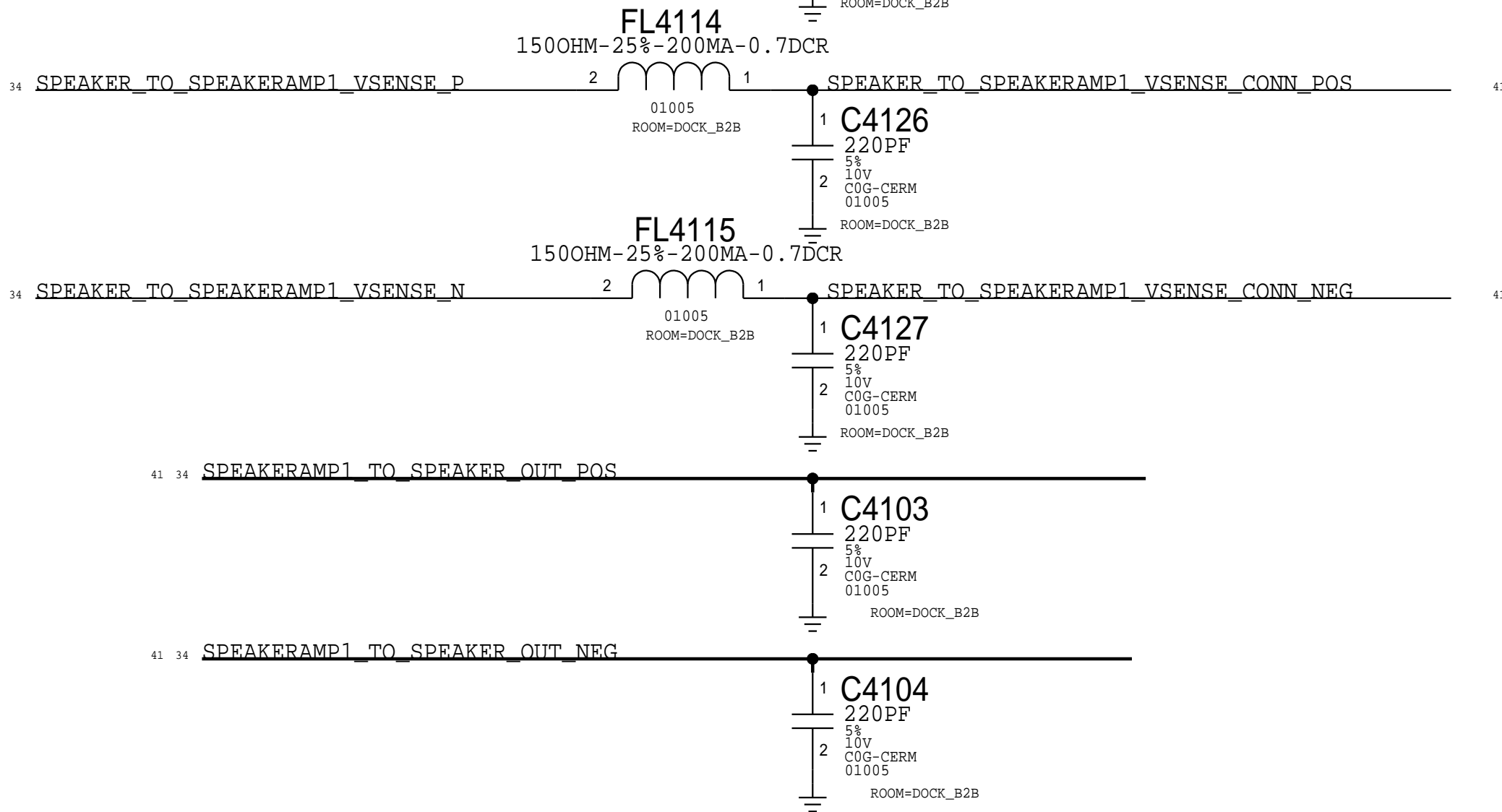
TRISTAR



LOWER MIC1/4

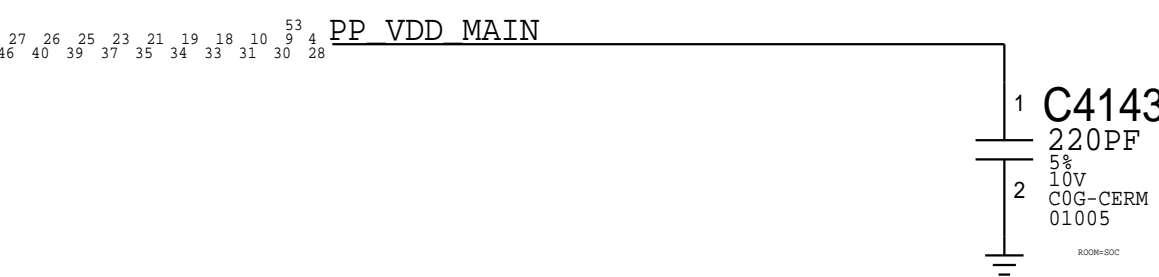



SPEAKER1




USB AC Coupling


AC return path for USB pairs which is referenced to GND and VDD_MAIN




PAGE TITLE		
B2B:DOCK FLEX		
 Apple Inc.	DRAWING NUMBER	051-00482
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8		7		6		5		4		3		2		1		
																D
																C
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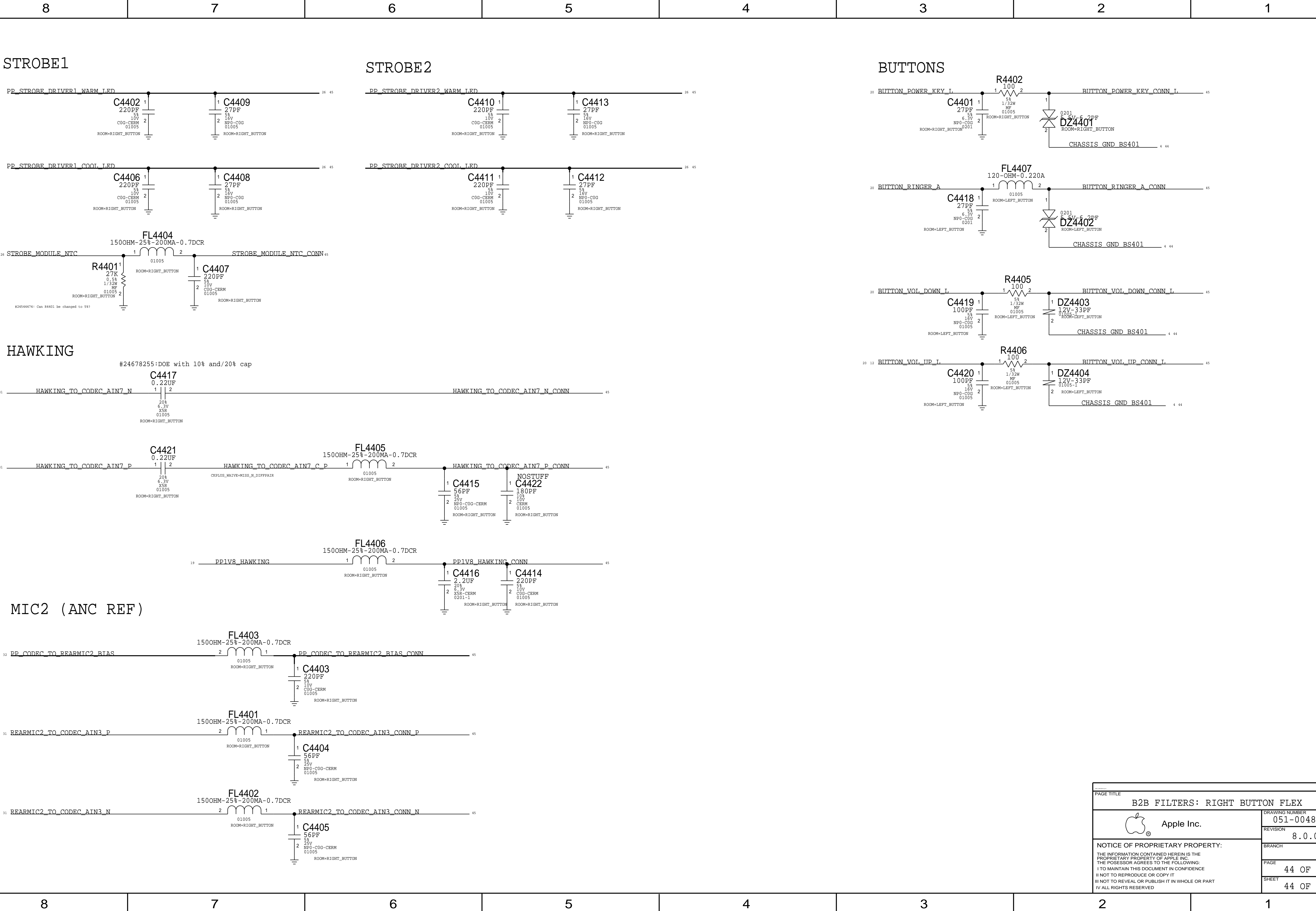
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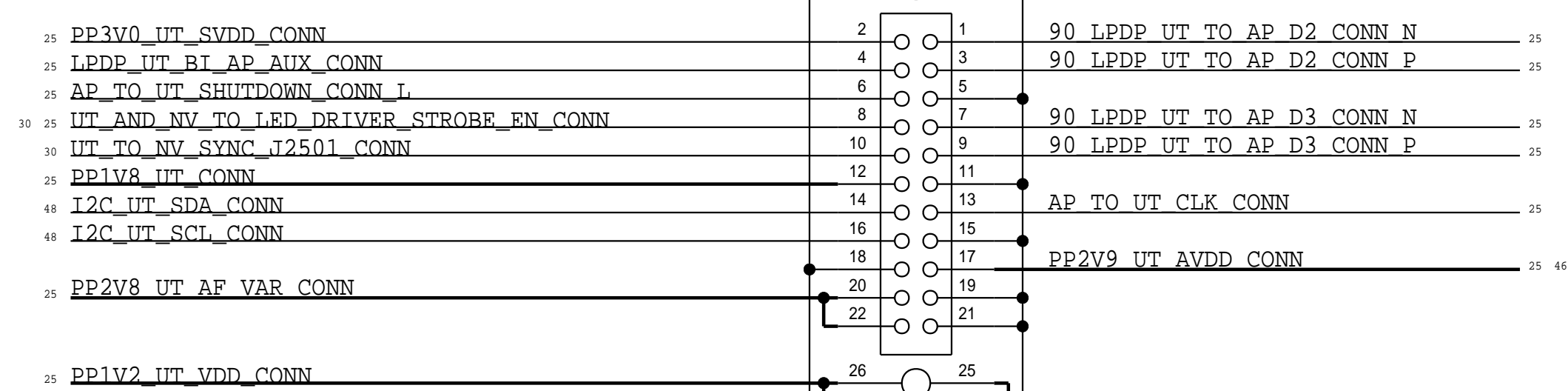
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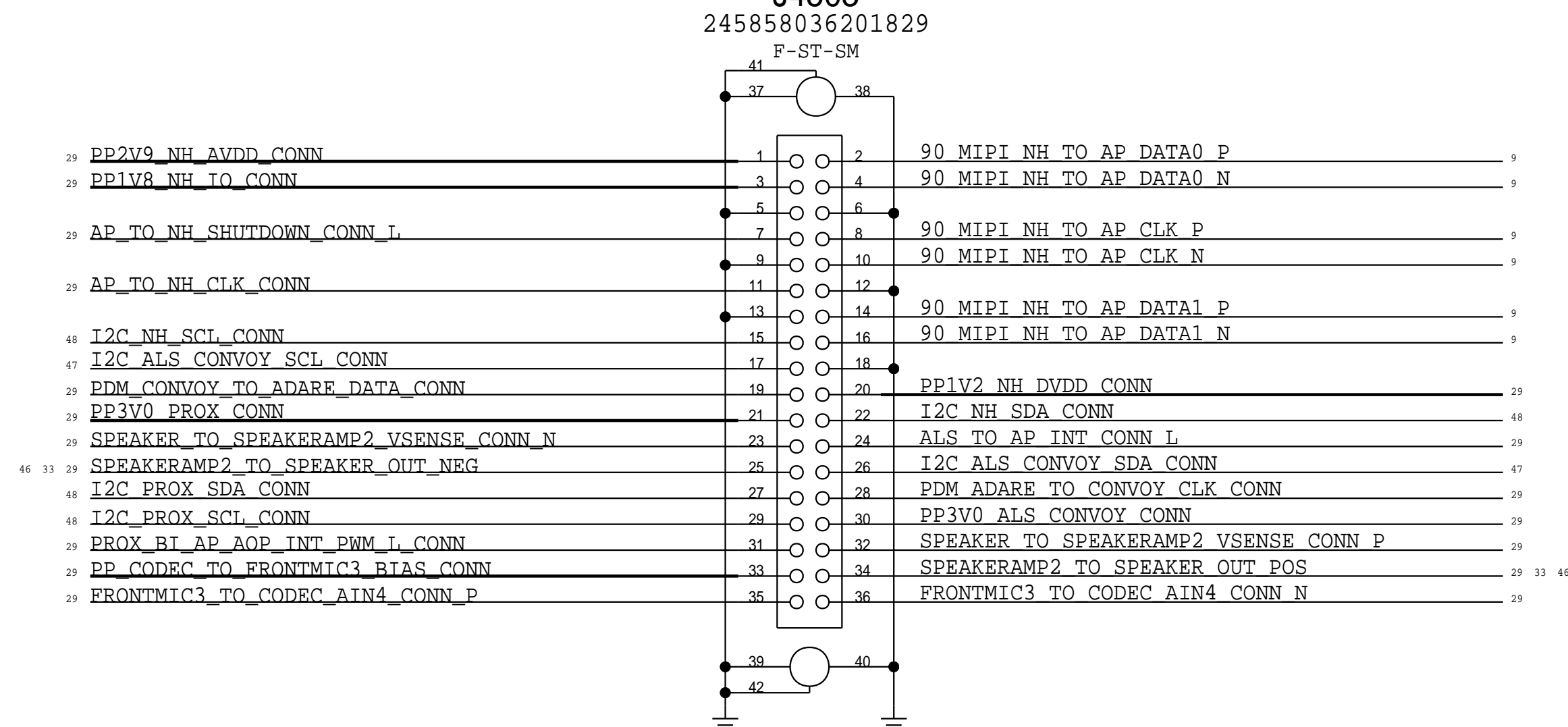


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B2B FILTERS: RIGHT BUTTON FLEX			
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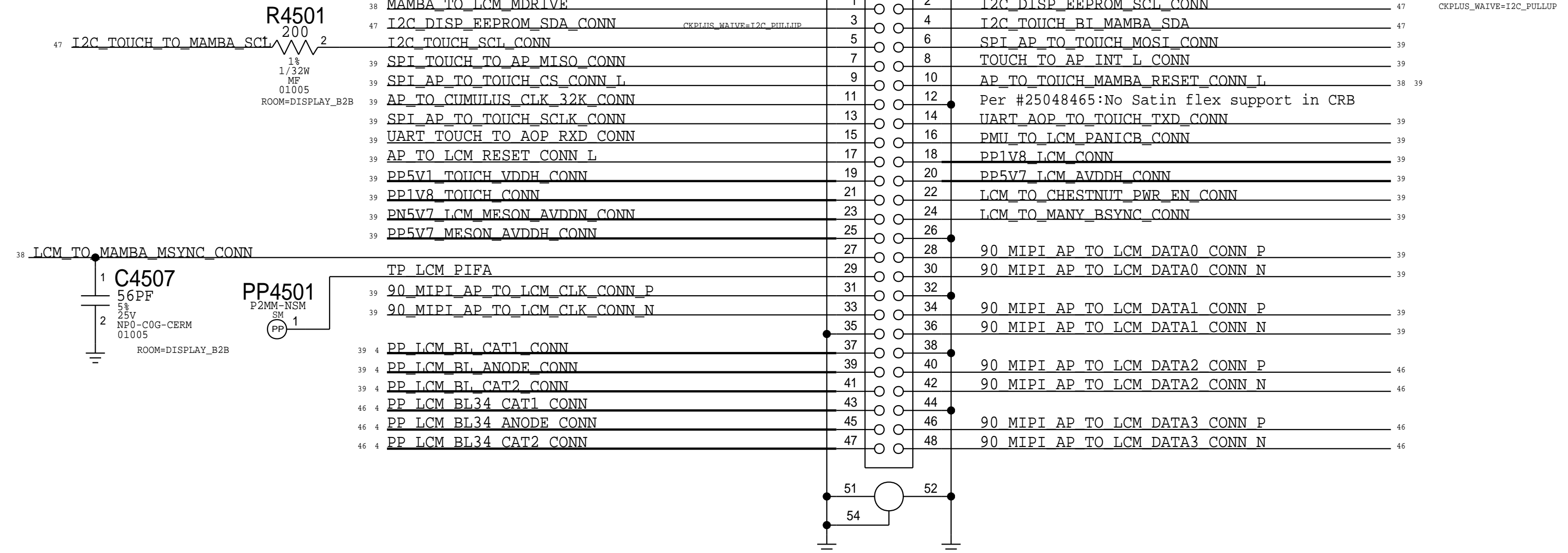
```
516S00152 RCPT (USED ON MLB)          <-- THIS ONE
516S00151 PLUG
```



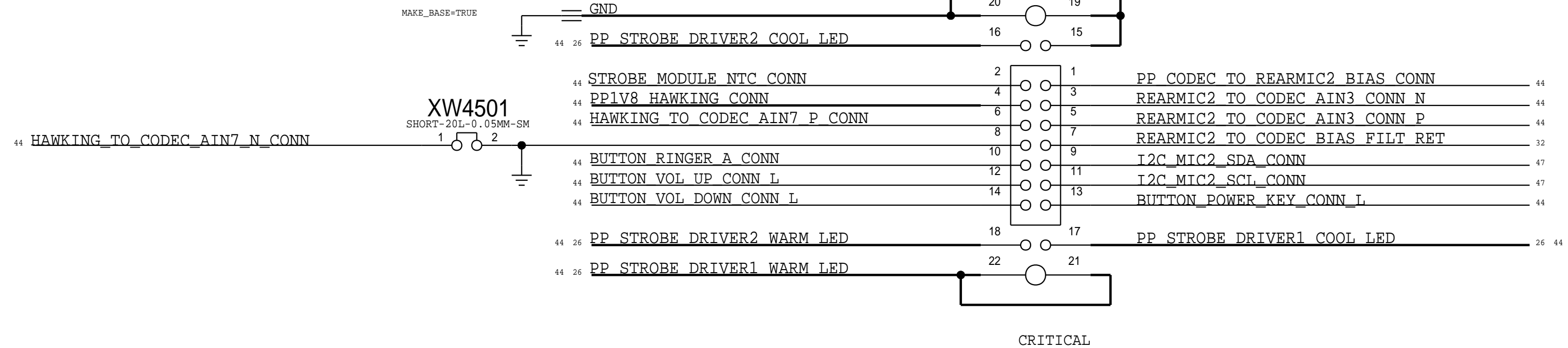
MLB: 516S00146 (MCO REV 27)



MLB: 516S00050

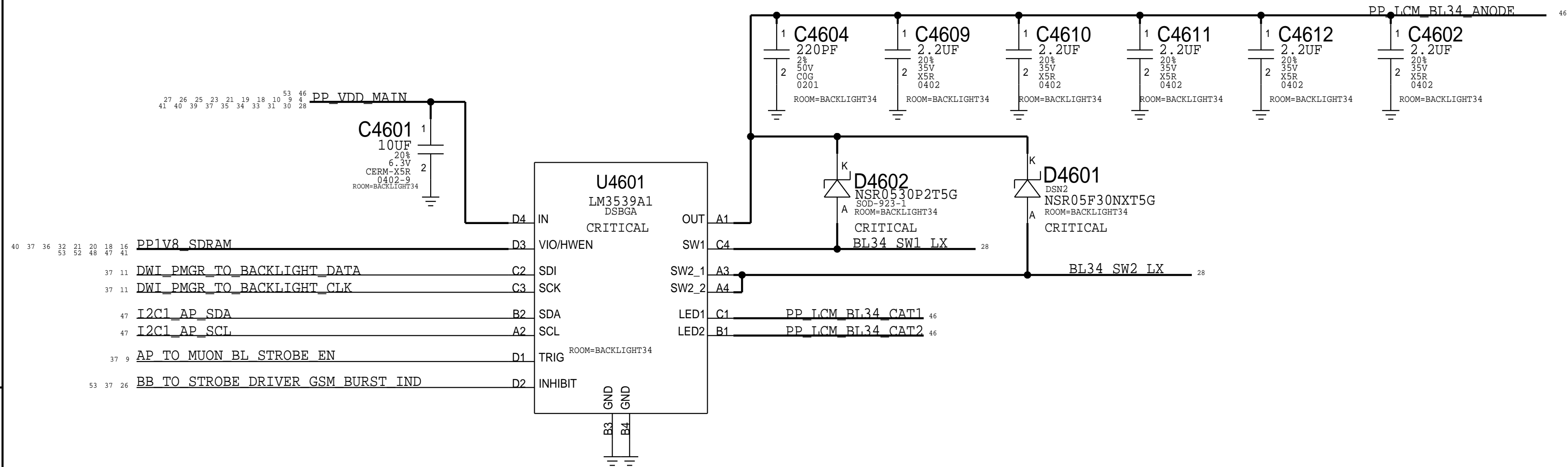


APPLE APN: 516S00150 <-- THIS ONE ON MLB (matched MCO rev 27)
APPLE APN: 516S00149



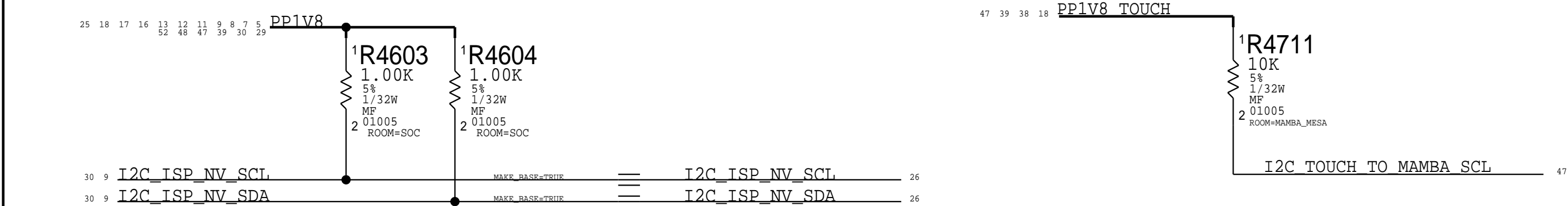
THIS PAGE UNIQUE TO LARGE FORM FACTOR

2ND BACKLIGHT DRIVER - 4LED



ISP I2C1

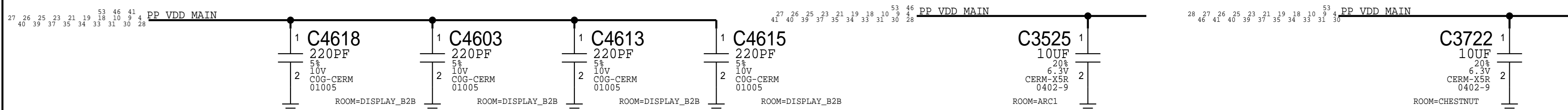
TOUCH I2C



VDD MAIN CAP
AC Coupling Caps

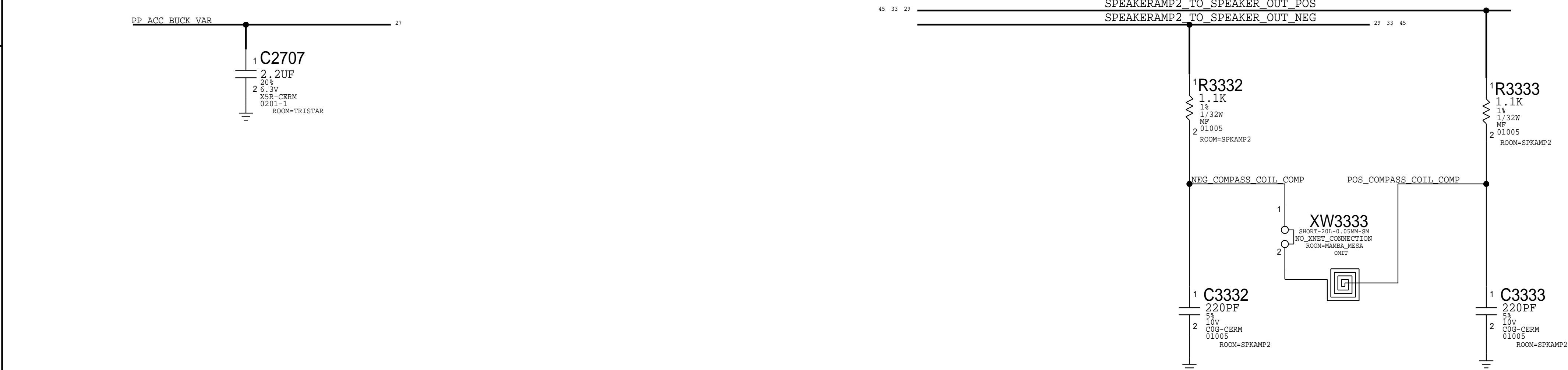
ARC CAP

CHESTNUT CAP

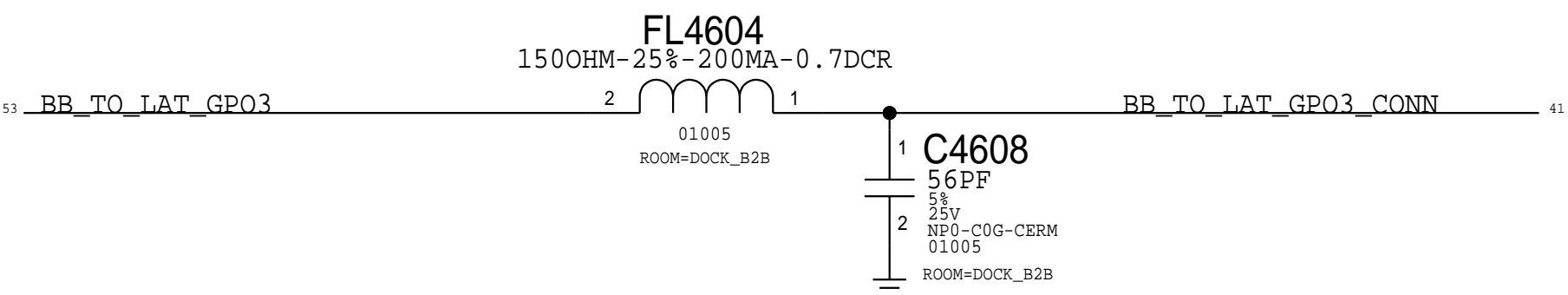


AC return path for LCM MIPI which is referenced to GND and VDD_MAIN

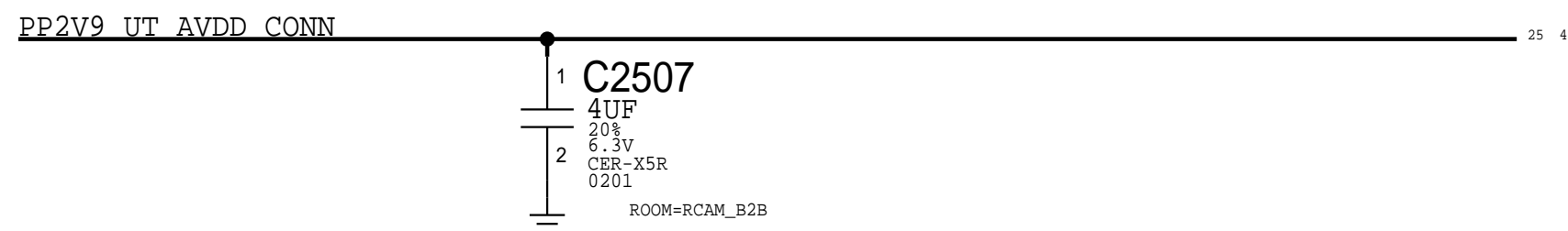
Top Speaker Compass Coil



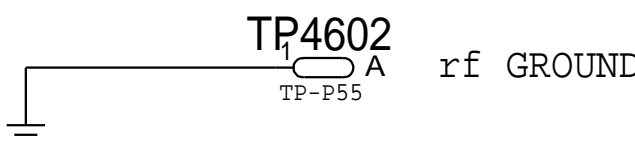
Dock B2B (Pg 41)




UT B2B



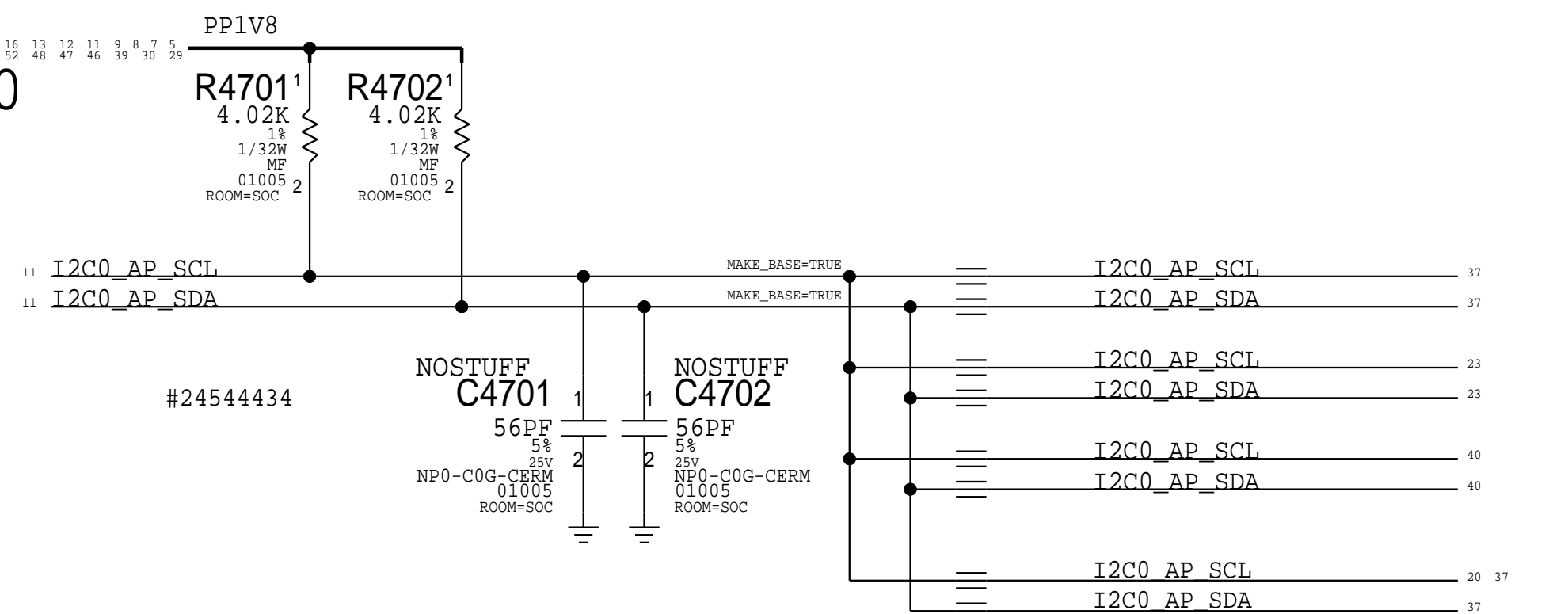
Extra RF GND



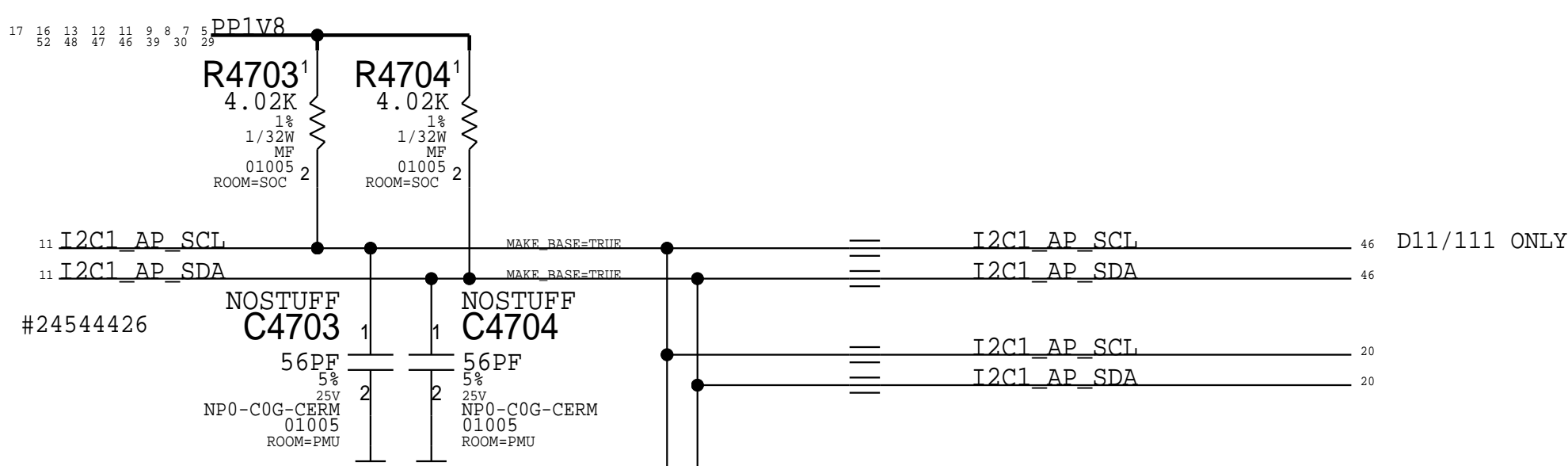
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LARGE FORM FACTOR SPECIFIC		
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AP

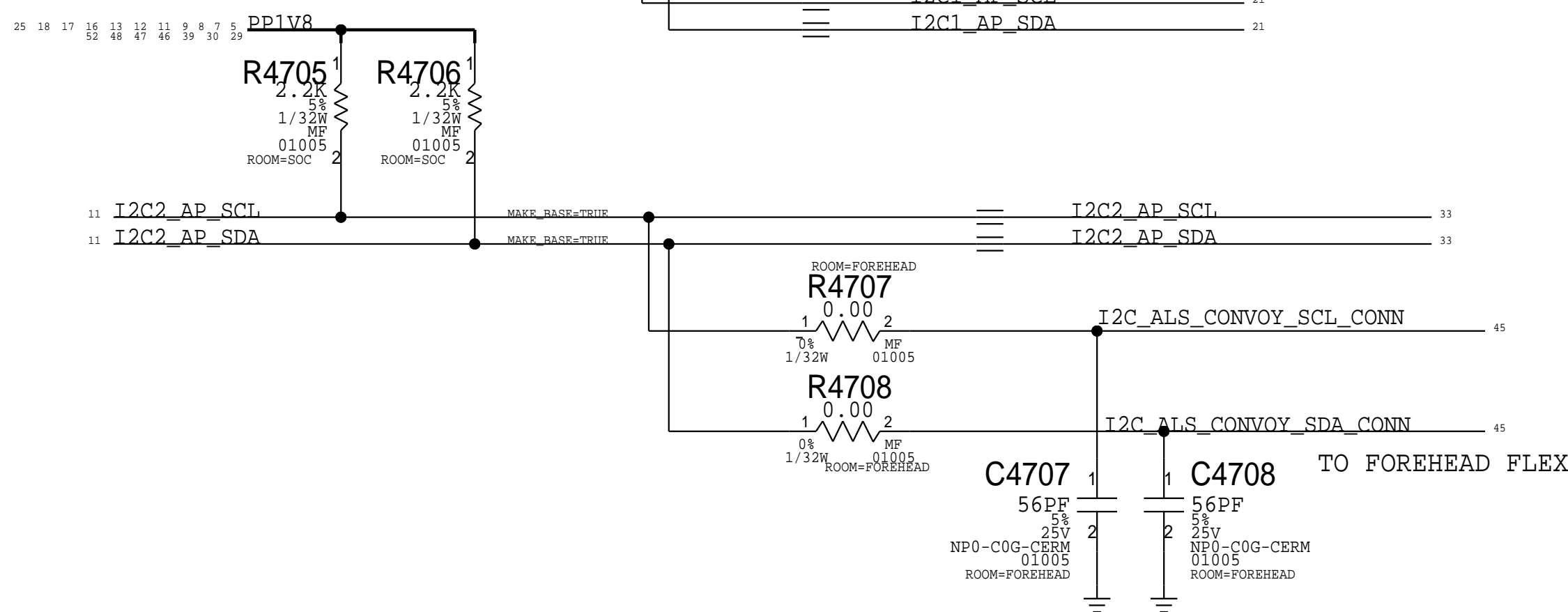
I2C0



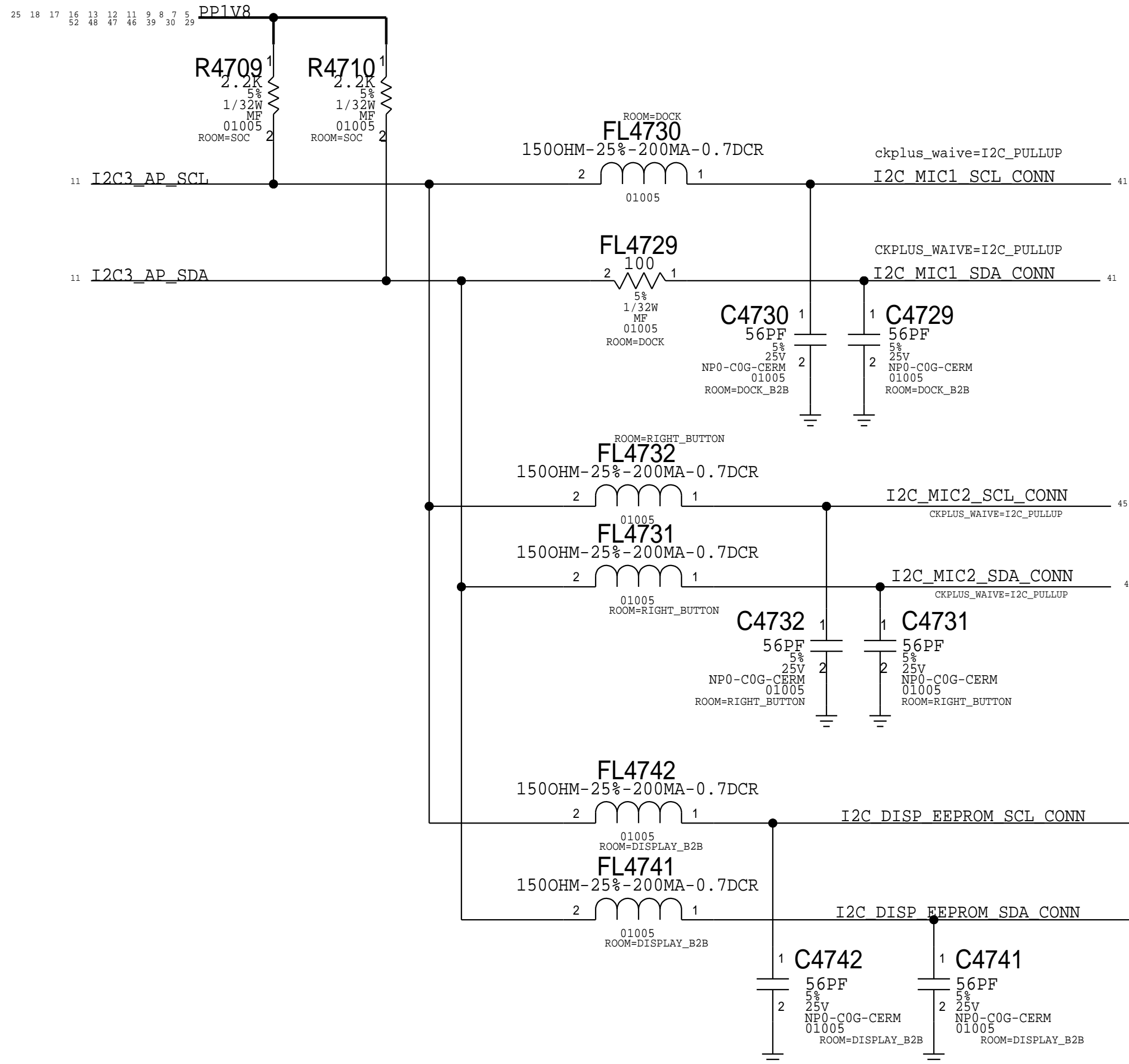
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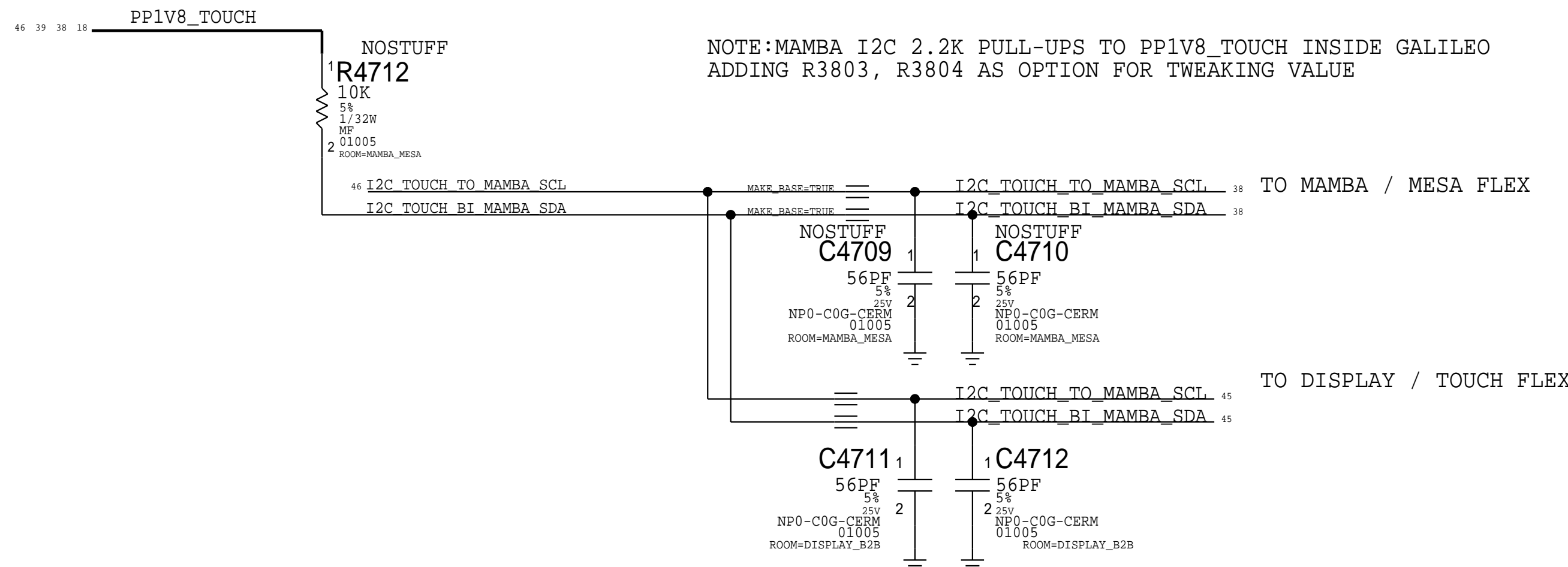
I2C2



I2C3

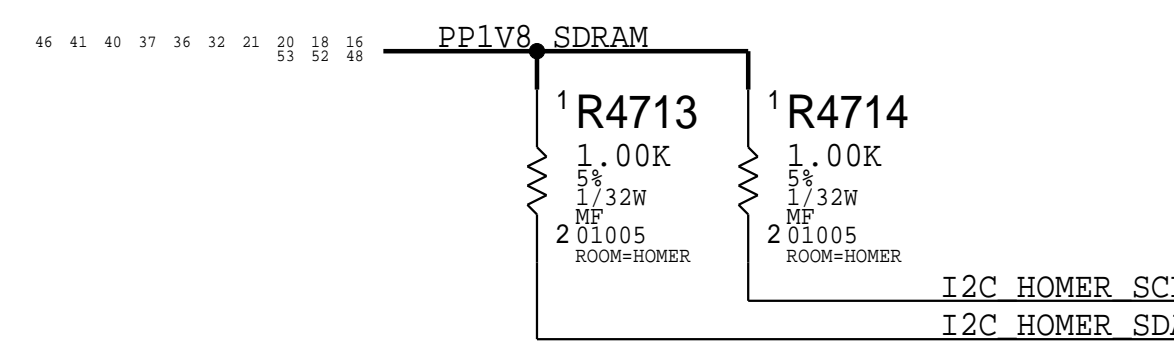


TOUCH

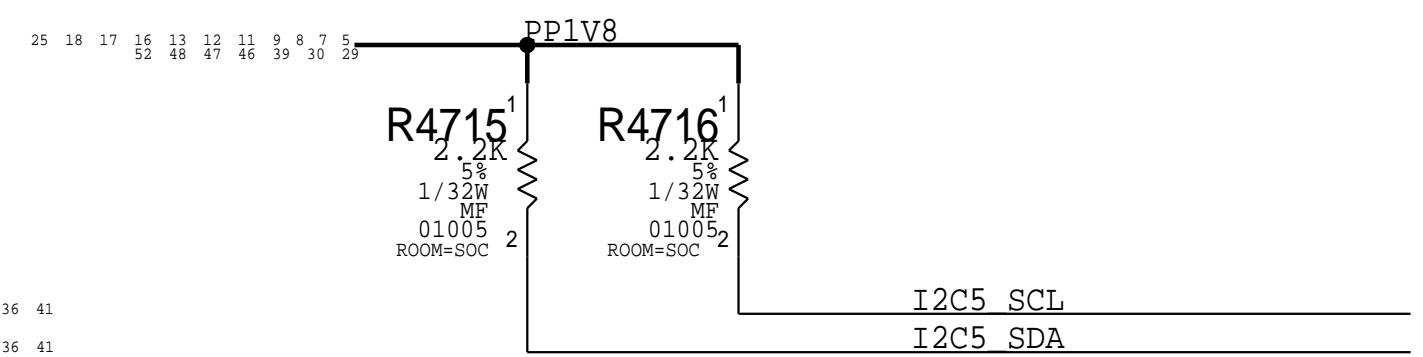


NOTE:MAMBA I2C 2.2K PULL-UPS TO PPIV8_TOUCH INSIDE GALILEO
ADDING R3803, R3804 AS OPTION FOR TWEAKING VALUE

HOMER



I2C5



PAGE TITLE		
I2C MAP: AP, TOUCH, HOMER, I2C5		
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AOP
I2C

ISP
I2C0


#24544699: Support 1MHz

#24550735: ISP I2C0 PU

#24958320: Intentional R4815 Change
Reduce undershoot when Prox Driving


Intentional R4815 Change

TO MAMBA/MESA FLEX

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I2C MAP AOP		
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D1x I2C Table

Bus	Device	Binary	7-bit Address	8-bit Address	Max Speed
ISP I2C0 <i>1MHz</i>	SALT LAKE (PRIMARY)	0010000X	0x10	0x20	1 MHz
	SALT LAKE (SECONDARY)	0110000X	0x30	0x60	1 MHz
	GRUNBERG (STANDARD)	0011100X	0x1C	0x38	1 MHz
	GRUNBERG (SPECIAL ABSOLUTE R/W)	0011101X	0x1D	0x3A	1 MHz
	GRUNBERG (SPECIAL DELTA READ)	0011110X	0x1E	0x3C	1 MHz
	STROBE 1	1100011X	0x63	0xC6	1 MHz
ISP I2C1 <i>1MHz</i>	LAS VEGAS (PRIMARY)	0100000X	0x20	0x40	1 MHz
	LAS VEGAS (SECONDARY)	0110000X	0x30	0x60	1 MHz
	EDWIN	1100011X	0x63	0xC6	400 kHz
	STROBE 2	0000110X	0x06	0x0C	1 MHz
ISP I2C2 <i>400kHz</i>	CONCORD	0010000X	0x10	0x20	1 MHz
AOP I2C <i>1MHz</i>	ARC DRIVER 1	100000YX	0x41	0x82	1 MHz
	PROX	1011000X	0x58	0xB0	1 MHz
	SPKAMP1 (L26)	100000YX	0x40	0x80	1 MHz
	TURTLE	0101100X	0x2c	0x58	400 kHz
	MESA	1100001X	0x61	0xC2	400 kHz
Touch I2C <i>600kHz</i>	MAMBA	1100000X	0x60	0xC0	1 MHz
	MESON	1000000X	0x40	0x80	510 kHz
EEPROM I2C	EEPROM	1010001X	0x51	0xA2	400 kHz
AP I2C0 <i>400kHz</i>	BOOST	1110101X	0x75	0xEA	3.4 MHz
	TRISTAR	0011010X	0x1A	0x34	400 kHz
	BACKLIGHT 1	1100010X	0x62	0xC4	1 MHz
	CHESTNUT	0100111X	0x27	0x4E	400 kHz
AP I2C1 <i>400kHz</i>	ADELYN	1110100X	0x74	0xE8	400 kHz
	TIGRIS	1110101X	0x75	0xEA	400 kHz
	BACKLIGHT 2	1100010X	0x62	0xC4	1 MHz
AP I2C2 <i>400kHz</i>	ALS	0101001X	0x29	0x52	400 kHz
	CONVOY	0100001X	0x21	0x42	3.4 MHz
		0100010X	0x22	0x44	400 kHz
	SPKAMP 2 (L26)	10000ZYX	0x40	0x80	400 MHz
AP I2C3 <i>100kHz</i>	DOCK FLEX (MIC1)	1010100X	0x54	0xA8	1 MHz
	COMBINED BUTTON FLEX (MIC2)	1010100X	0x56	0xAC	1 MHz
	DISP EEPROM	1010001X	0x51	0xA2	400kHz
Homer I2C <i>1MHz</i>	SCHRODINGER (STANDARD)	0001110X	0xE	0x1C	1 MHz
	SCHRODINGER (CAL REG'S)	0001111X	0xF	0x1D	1 MHz
	EEPROM (STANDARD)	1010000X	0x50	0xA0	
	EEPROM (CONFIG)	1010000X	0x50	0xA0	

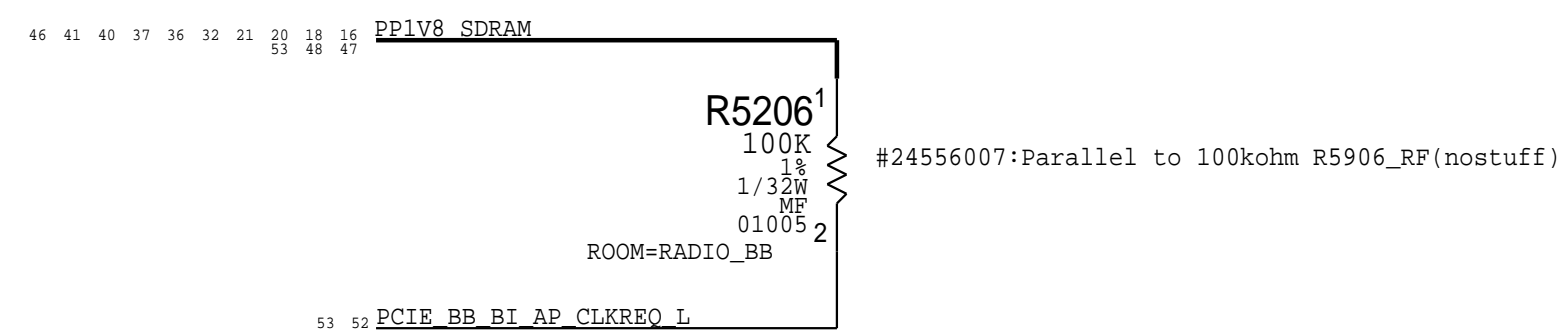
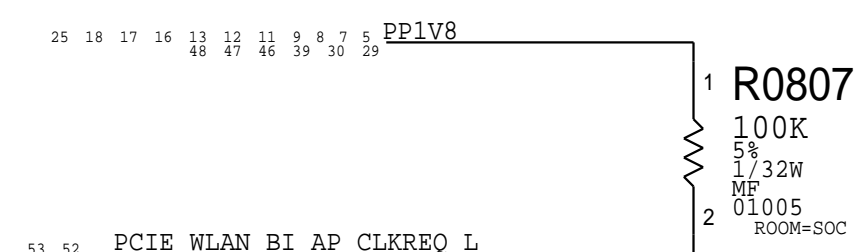
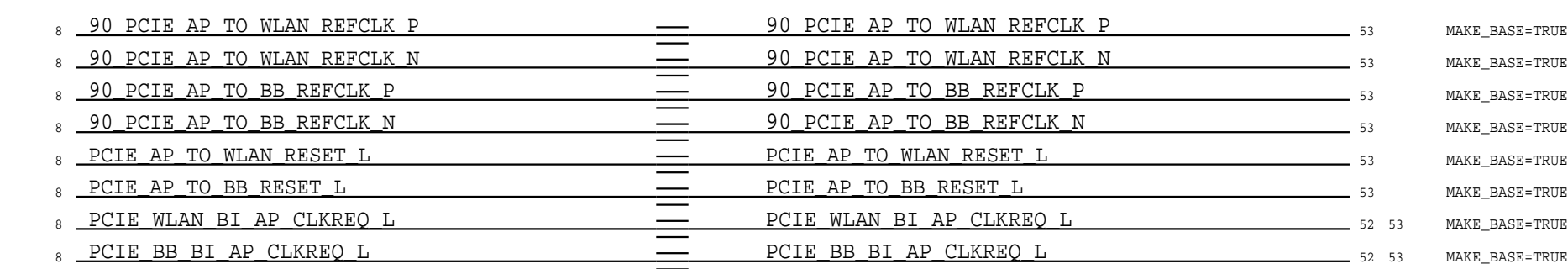
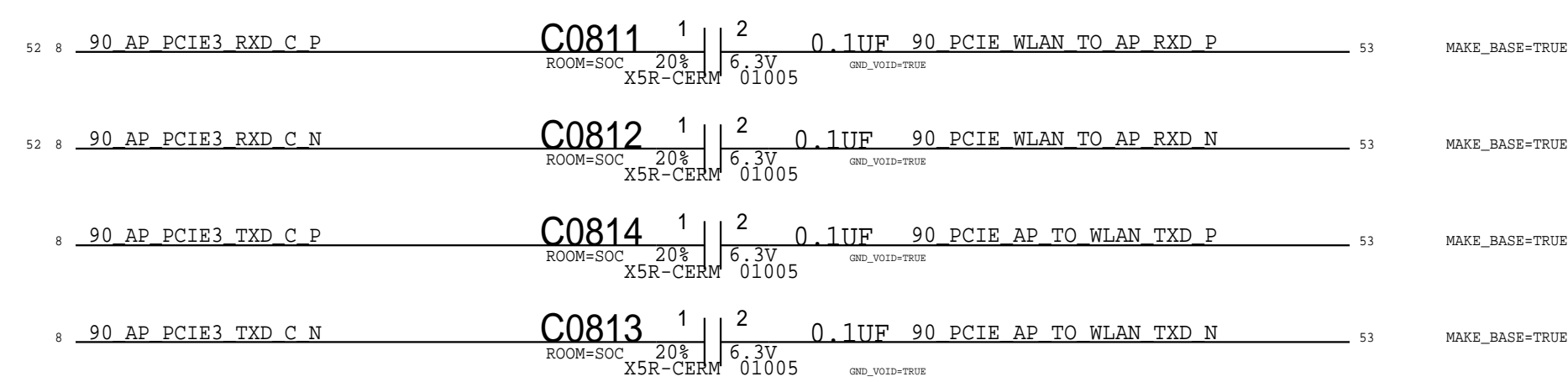
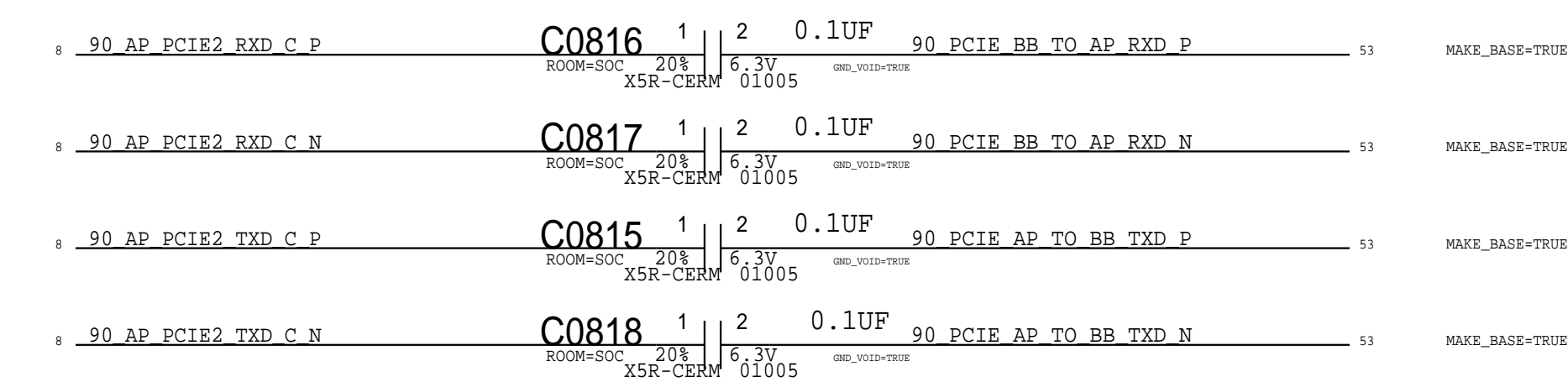
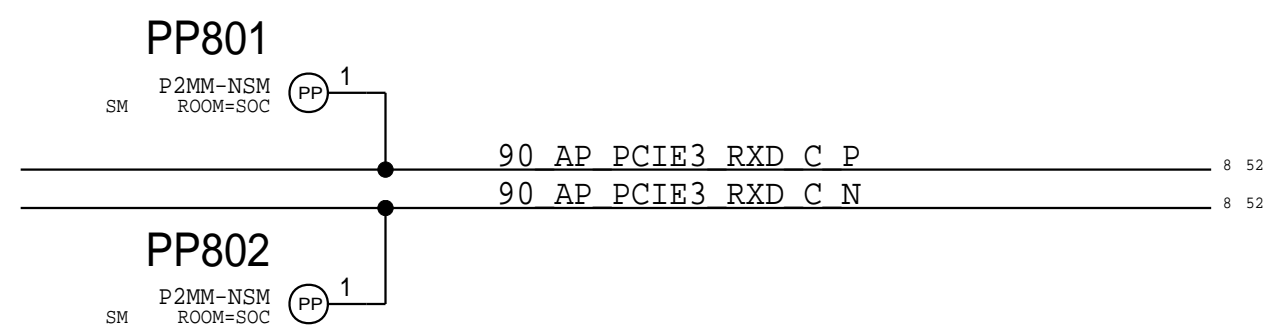
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spare

spare

This page controls elements different accross all MLBs

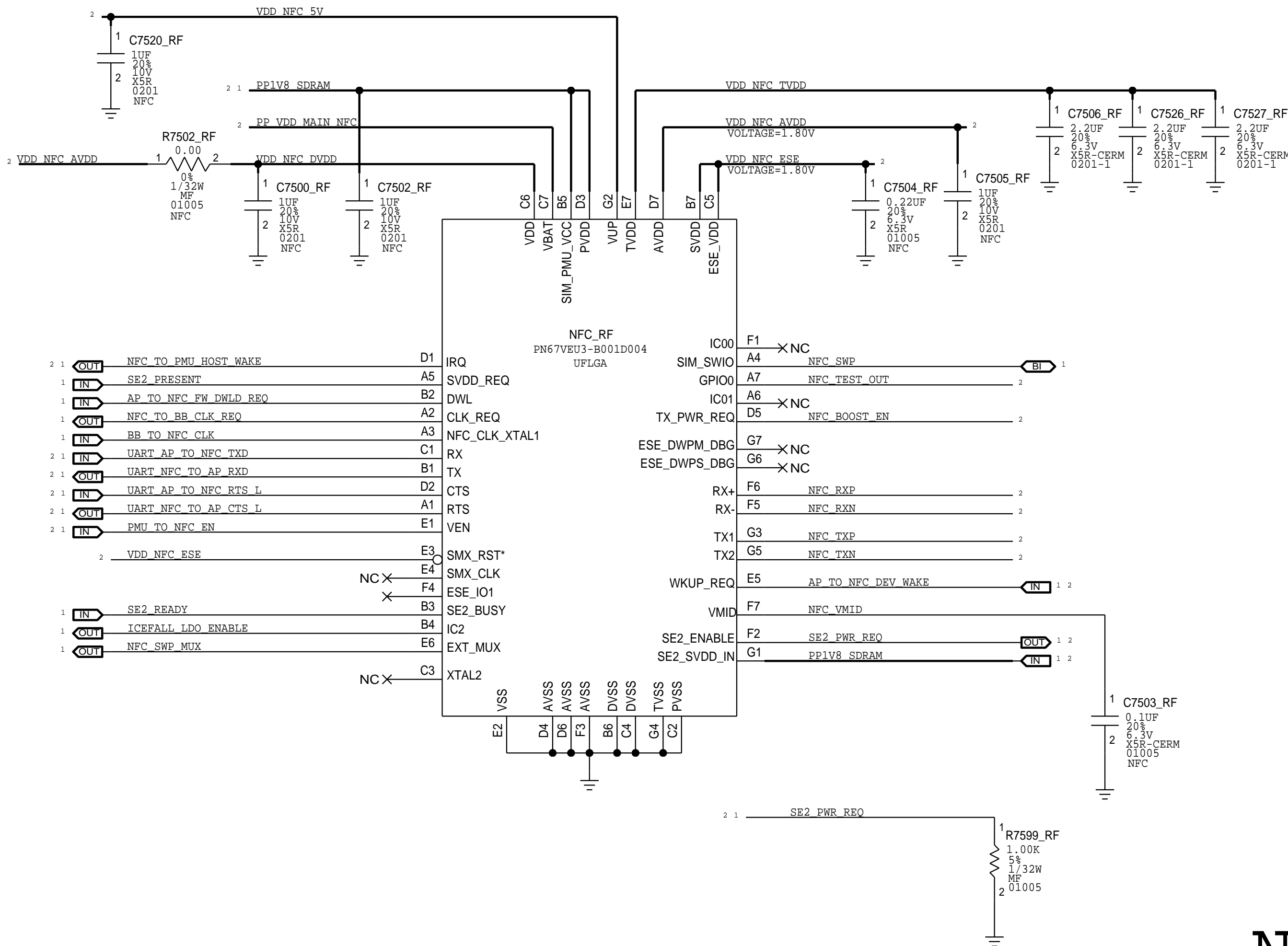
PCIE Lanes



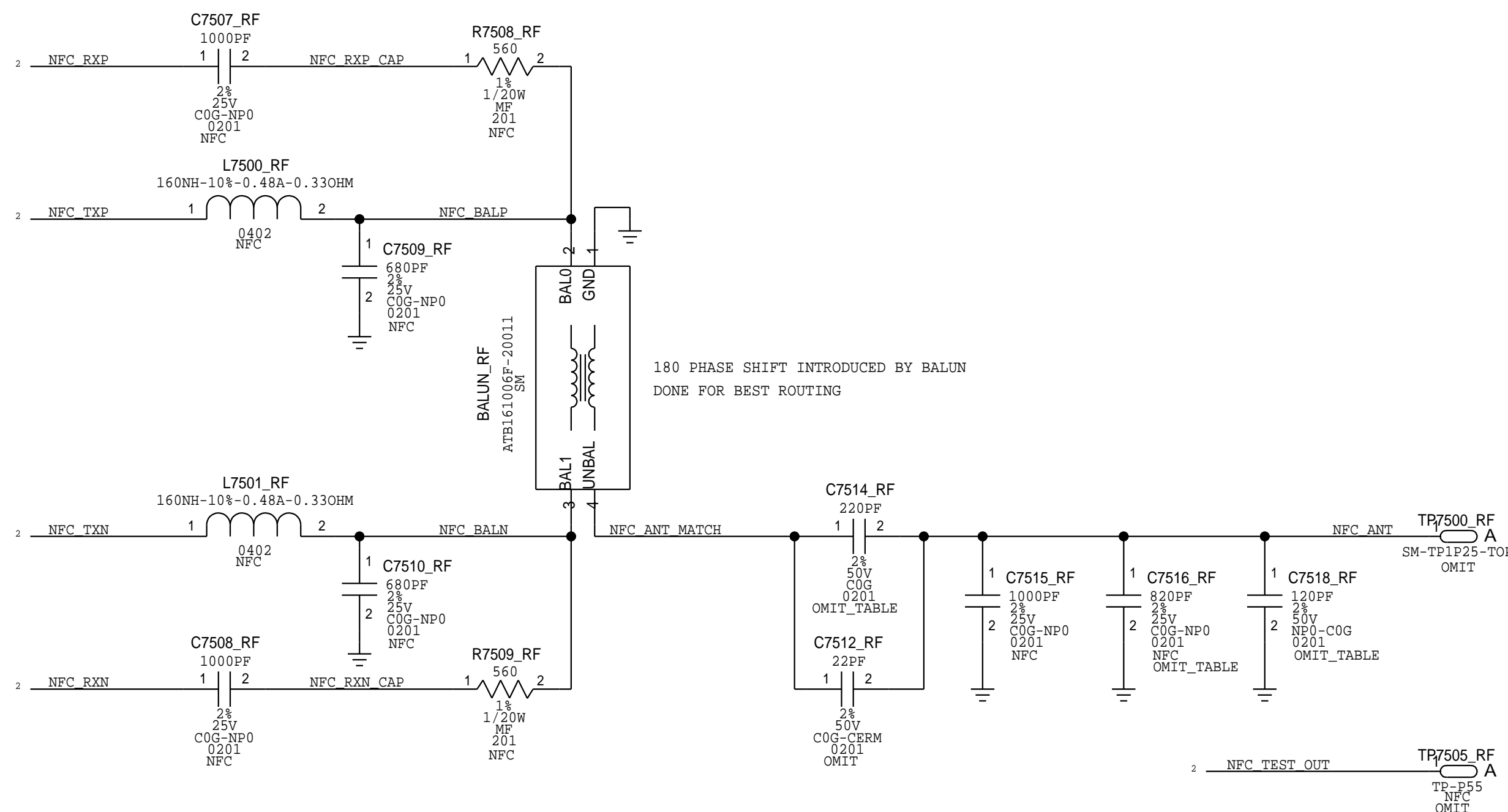
STOCKHOLM

NFC CONTROLLER

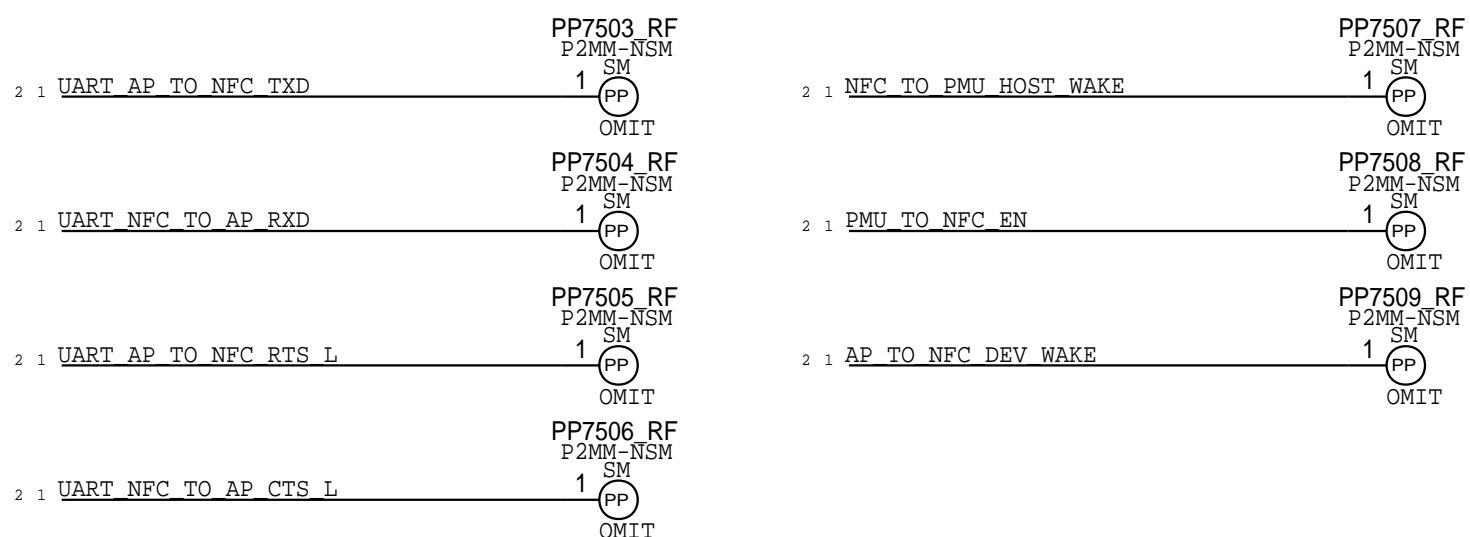
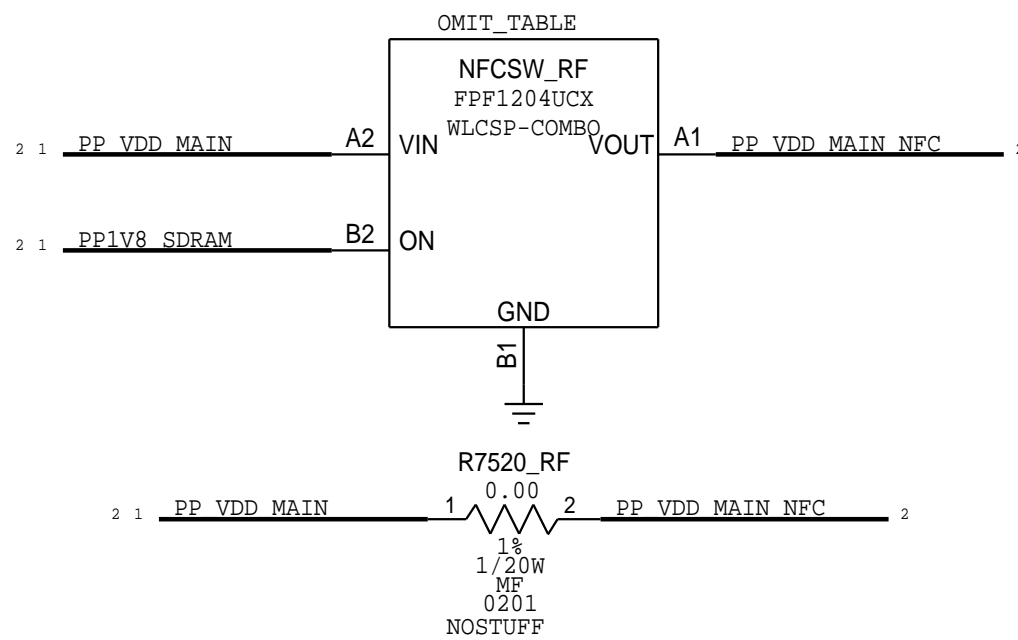
5V BOOSTER




NFC FRONT END



NFC LOAD SWITCH



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NFC			
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METROCIRC

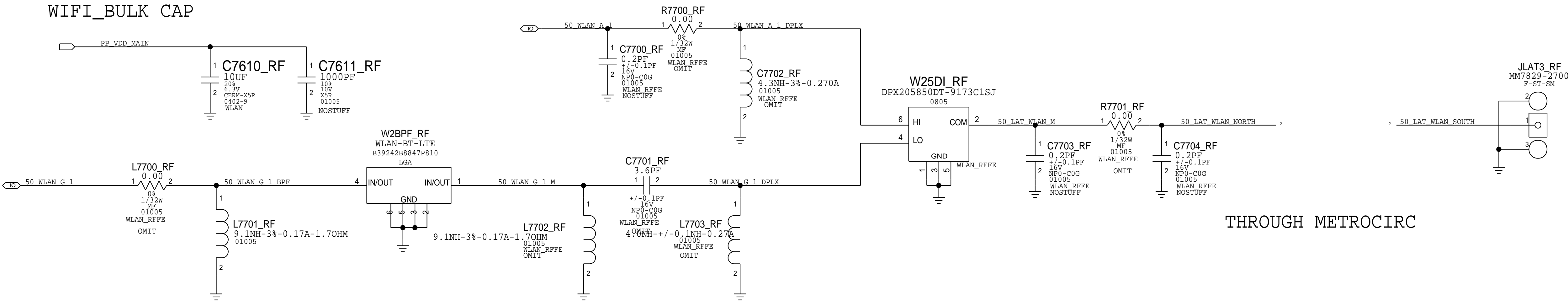
D11 NORTH-SOUTH METROCIRC
339S00147

D11 EAST-WEST METROCIRC
339S00146




WIFI LOWER ANTENNA FEED

COAX



THROUGH METROCIRC

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	SHEET	57 OF 81

D

C

B

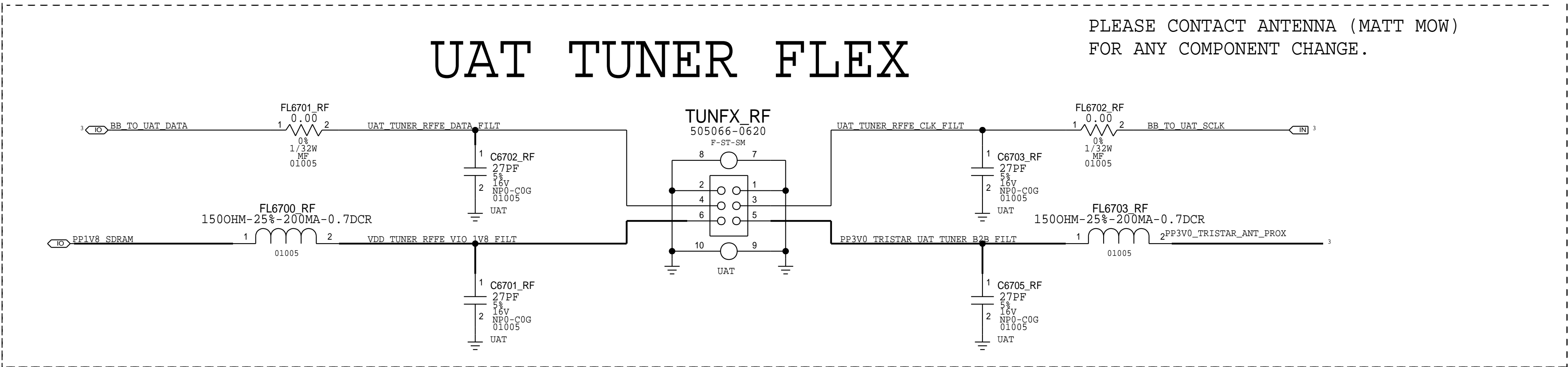
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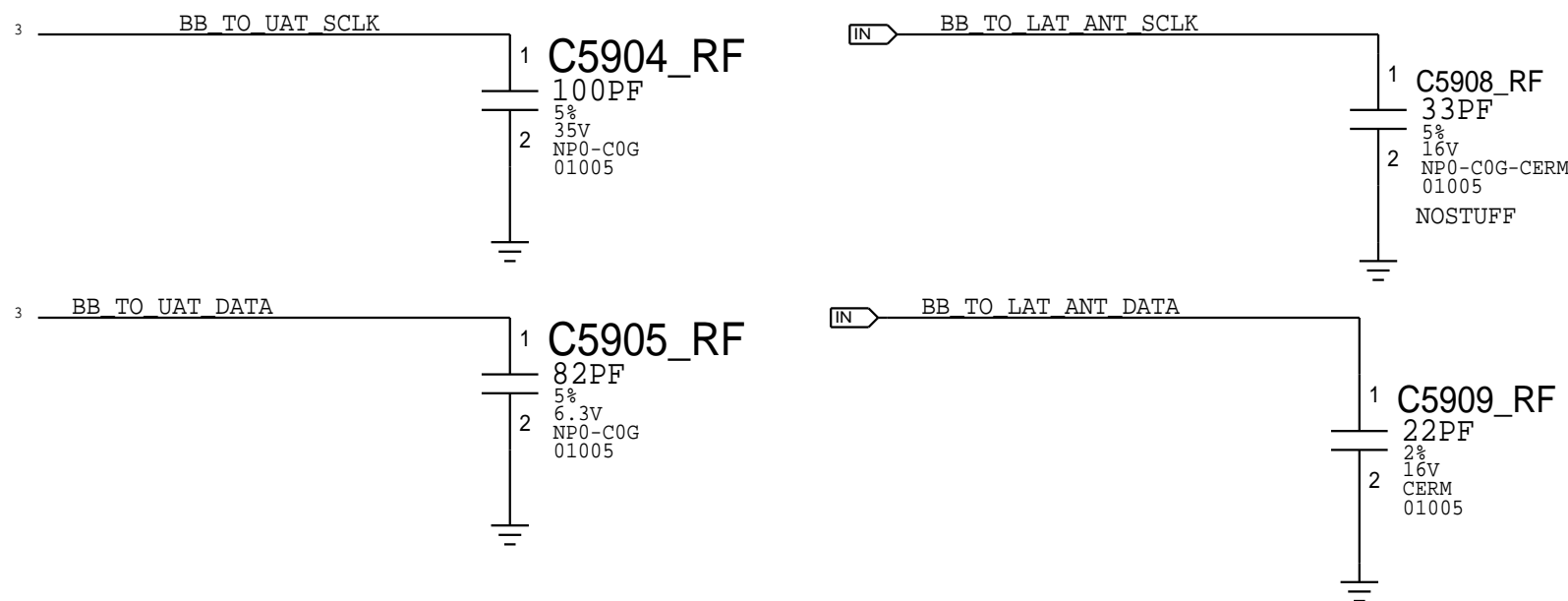
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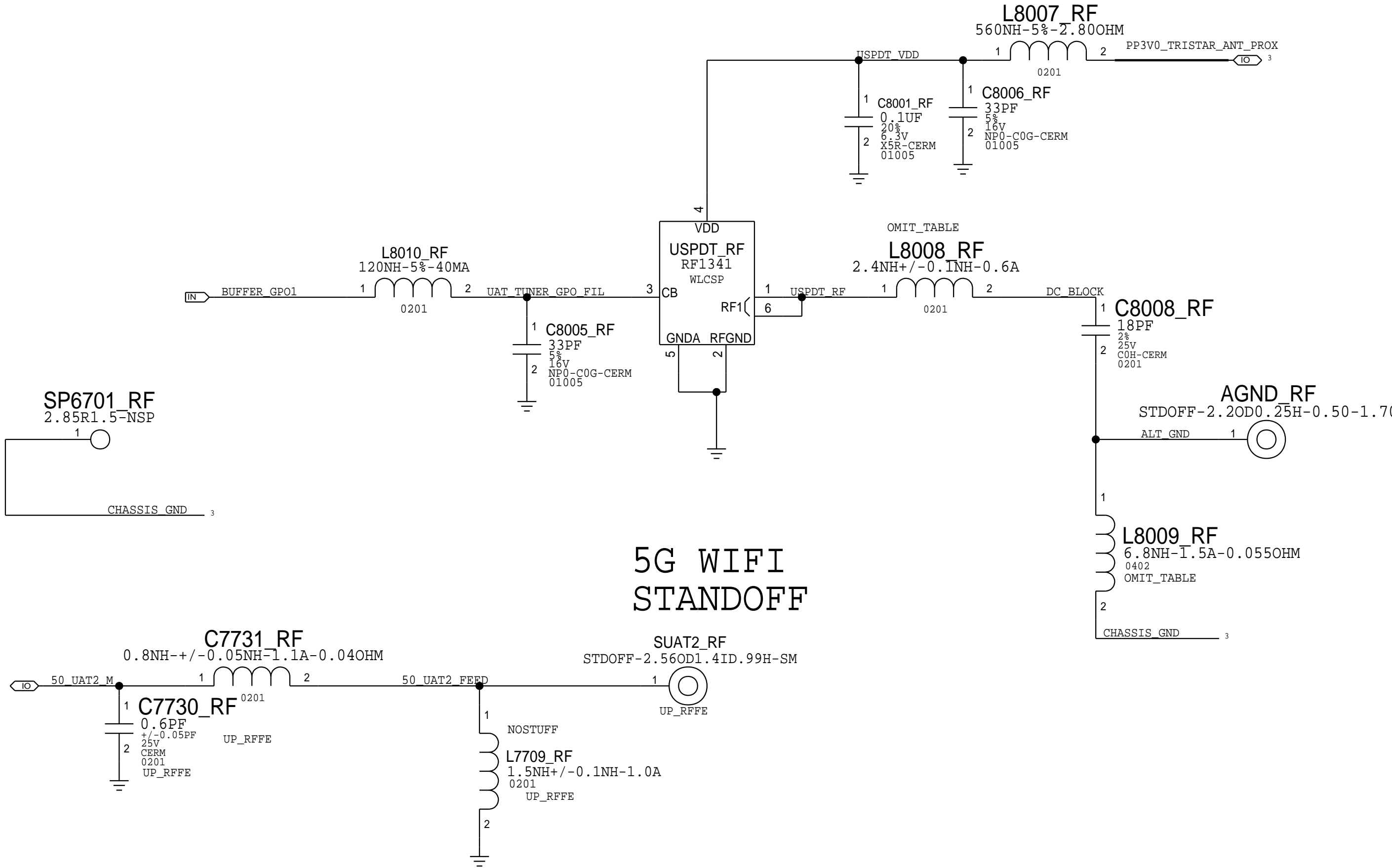
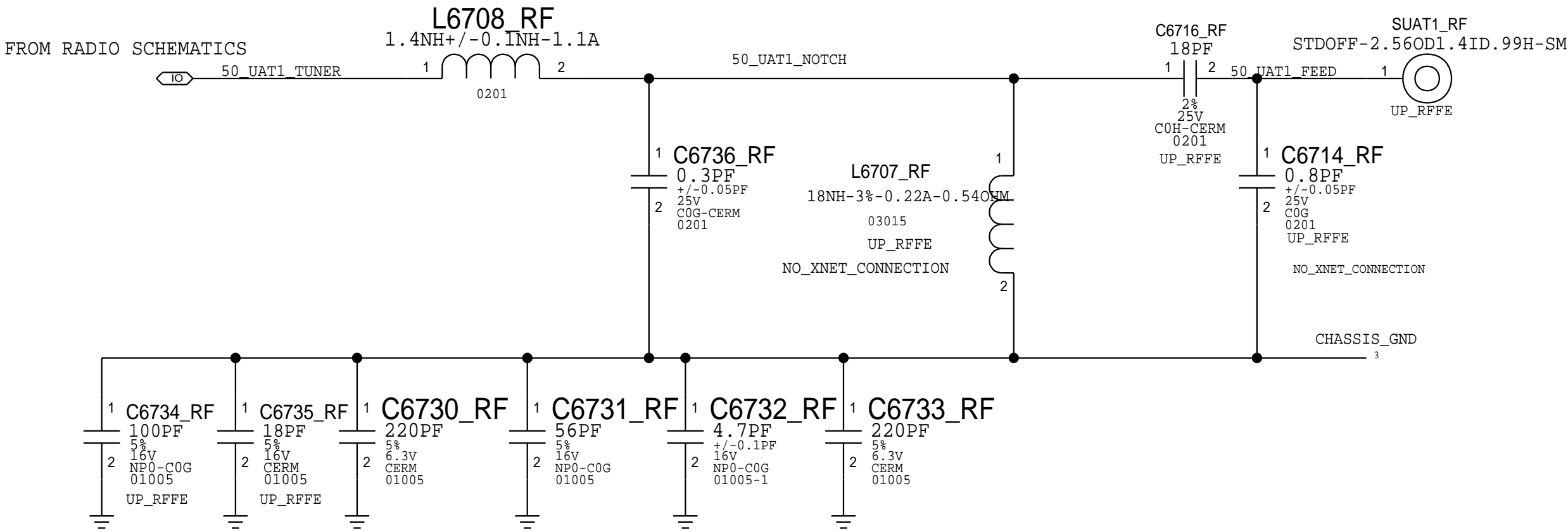
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ALT UAT1 GND

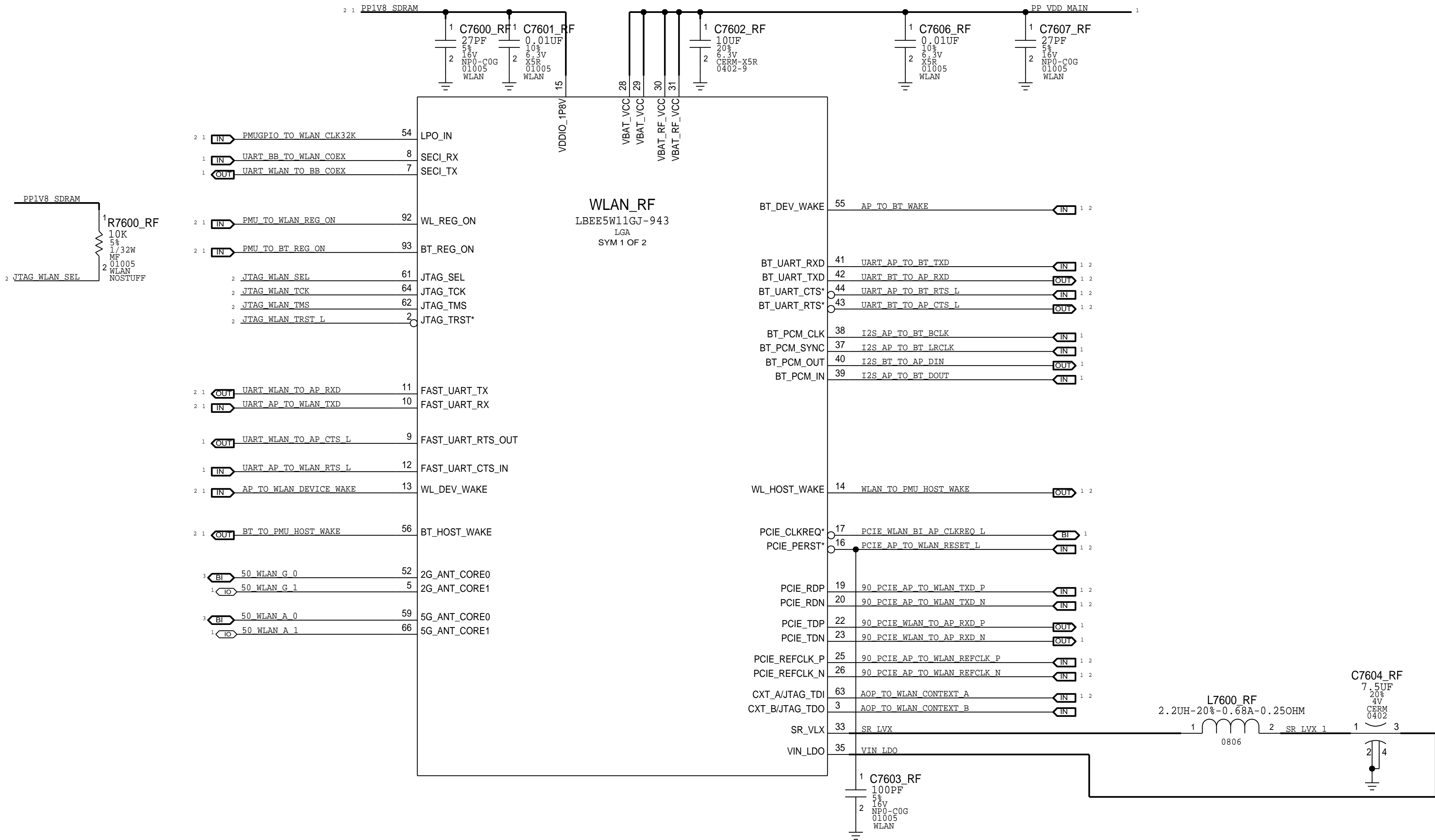


LB/MLB/GNSS/MB/HB STANDOFF



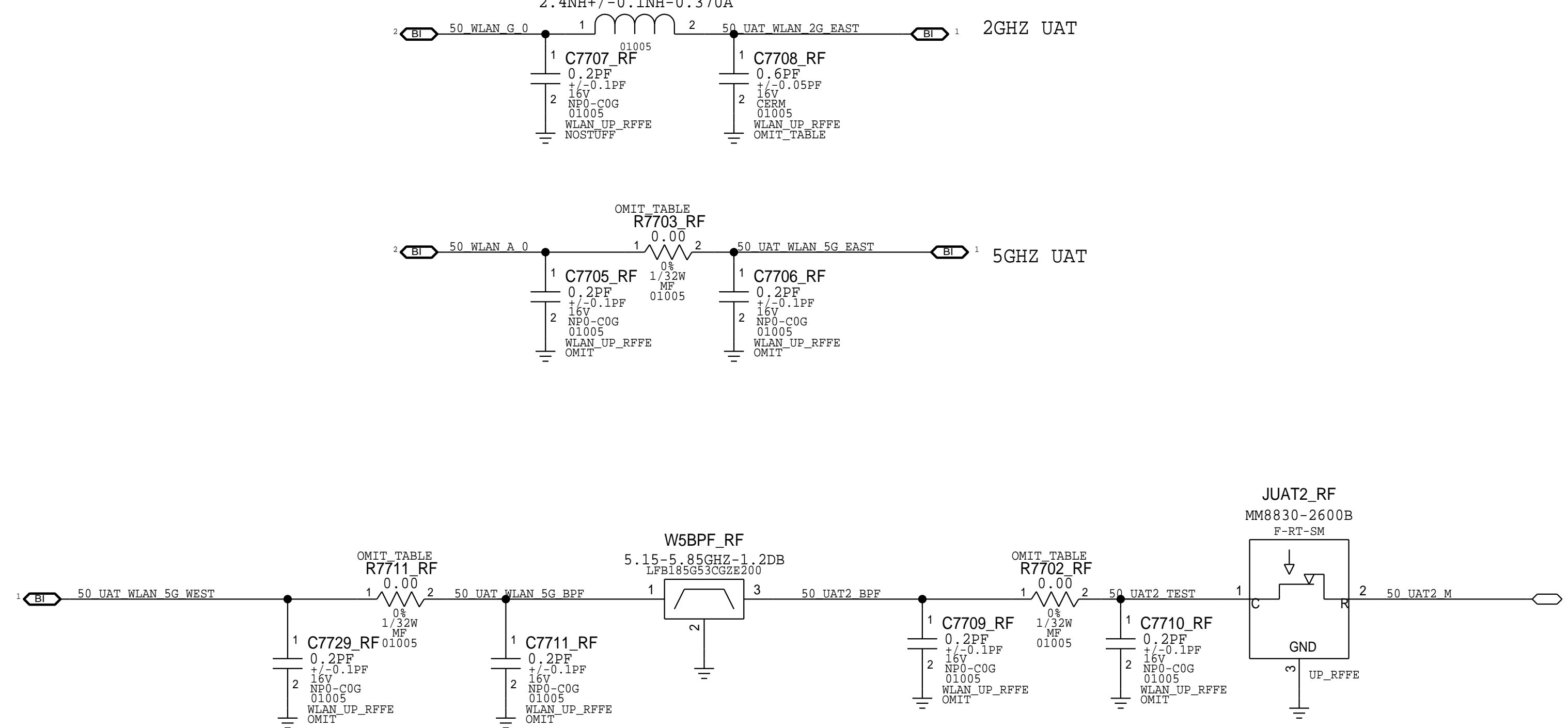
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UAT MATCH AND TUNER [3]		
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WIFI/BT



		PP7600 RF			PP7610 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	AOP TO WLAN CONTEXT A	1	PP	2 1	PMUGPIO TO WLAN CLK32K
	TDI				1
					PP
		PP7601 RF			PP7611 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	AOP TO WLAN CONTEXT B	1	SM	2 1	WLAN TO PMU HOST WAKE
	TDO		PP		1
					PP
					PP7612 RF
					P2MM-NSM
2 1				2 1	90 PCIE AP TO WLAN REFCLK P
					1
					PP
		PP7603 RF			PP7613 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	UART WLAN TO AP RXD	1	SM	2 1	90 PCIE AP TO WLAN REFCLK N
			PP		1
					PP
		PP7604 RF			PP7614 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	UART AP TO WLAN TXD	1	SM	2 1	90 PCIE AP TO WLAN TXD P
			PP		1
					PP
		PP7605 RF			PP7615 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	JTAG WLAN TCK	1	SM	2 1	90 PCIE AP TO WLAN TXD N
			PP		1
					PP
		PP7606 RF			PP7616 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	JTAG WLAN TMS	1	SM	2 1	PCIE AP TO WLAN RESET L
			PP		1
					PP
		PP7607 RF			PP7617 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	JTAG WLAN TRST L	1	SM	2 1	JTAG WLAN SEL
			PP		1
					PP
		PP7608 RF			PP7618 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	AP TO WLAN DEVICE WAKE	1	SM	2 1	PMU TO WLAN REG_ON
			PP		1
					PP
		PP7609 RF			PP7619 RF
		P2MM-NSM	OMIT		P2MM-NSM
2 1	BT TO PMU HOST WAKE	1	PP	2 1	PMU TO BT REG_ON
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					PP

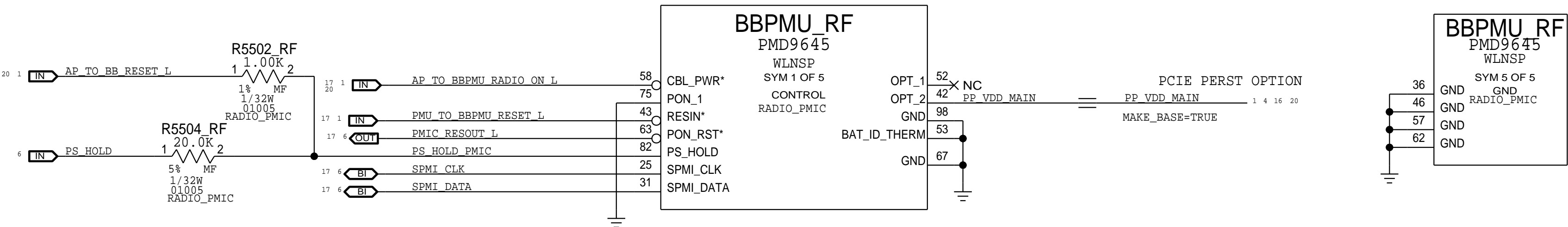
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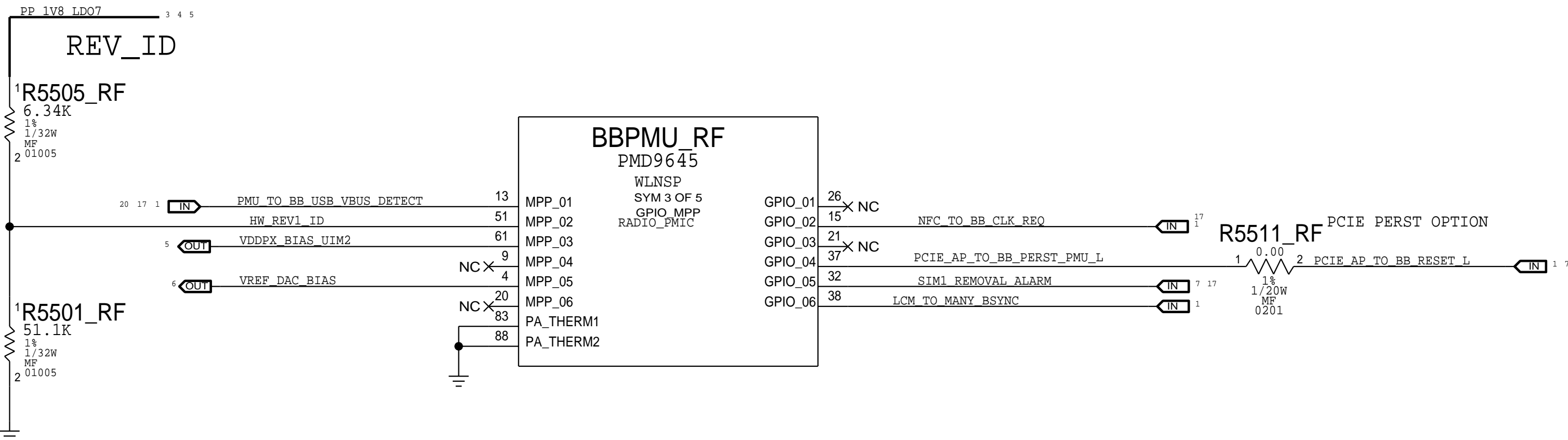
PMU: CONTROL AND CLOCKS

RESET AND CONTROL: PMU

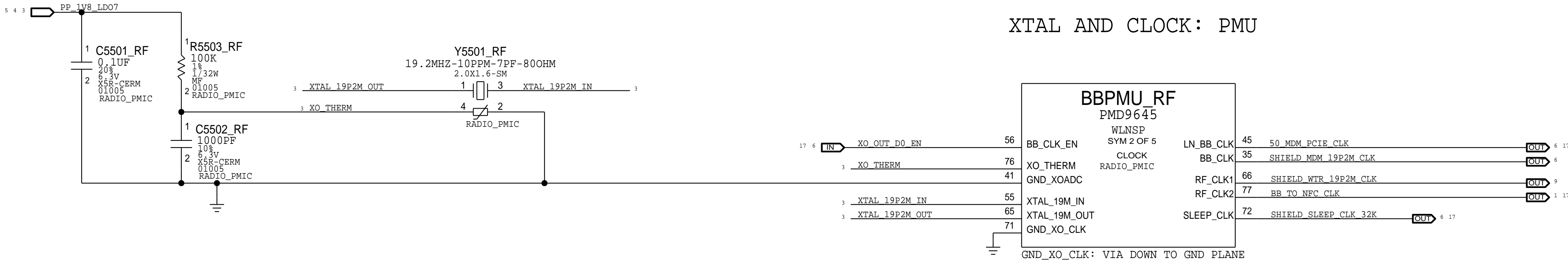
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0.20V	422K	51.1K	DEV2
0.30V	255K	51.1K	DEV 2.1
0.40V	180K	51.1K	DEV 3
0.50V	124K	51.1K	T181
0.60V	102K	51.1K	PP/P1
0.70V	82.5K	51.1K	DEV4
0.80V	63.4K	51.1K	P2
0.90V	51.1K	51.1K	DEV5
1.00V	51.1K	63.4K	EVT
1.10V	51.1K	82.5K	EVT DOE
1.20V	50.0K	100K	EVT ALT/CARBON
1.30V	39.0K	100K	DEV6
1.40V	14.7K	51.1K	CARRIER
1.50V	40.2K	200K	DVT
1.60V	6.34K	51.1K	PVT



MPPS AND GPIOs: PMU

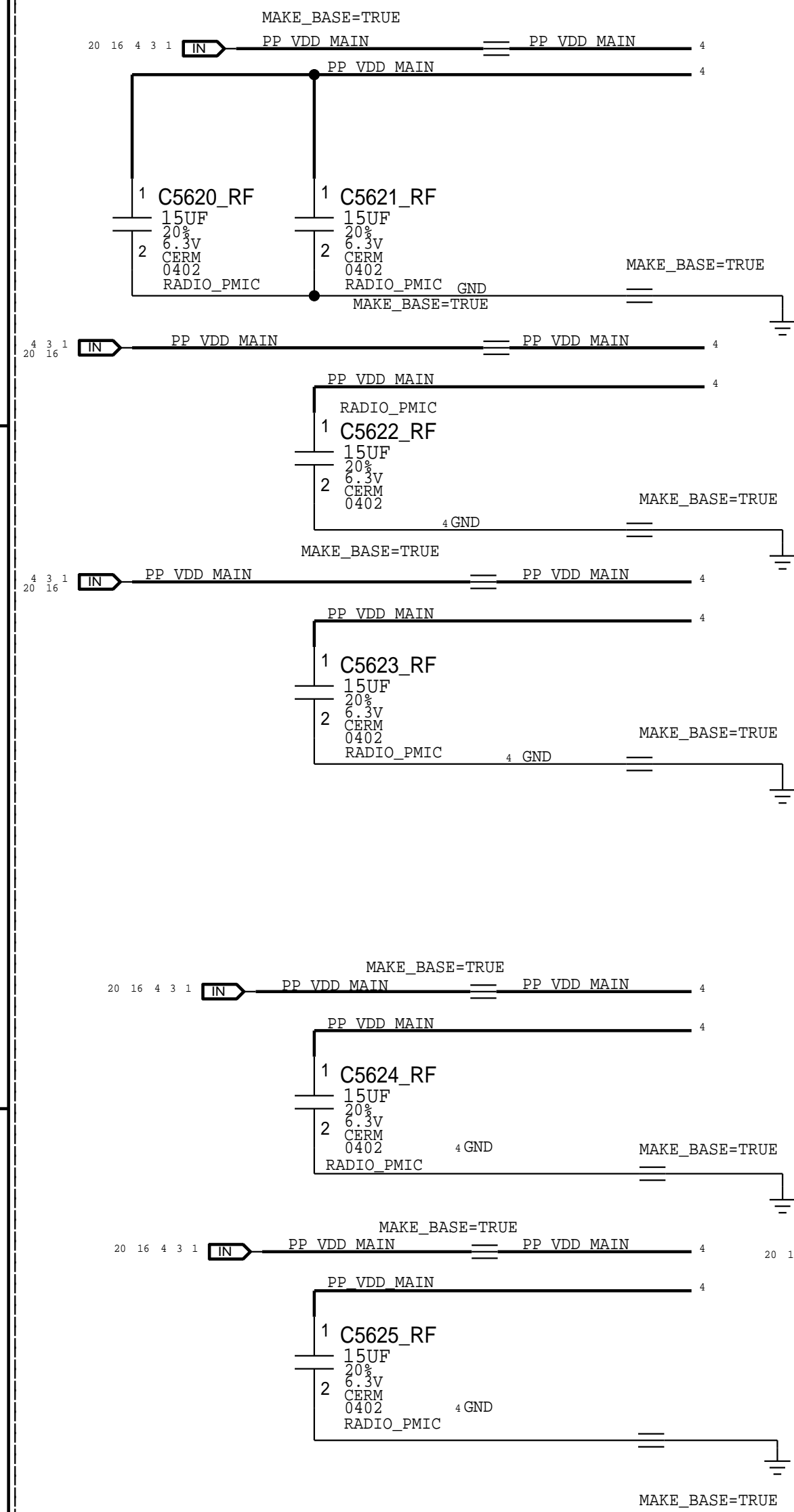


XTAL AND CLOCK: PMU

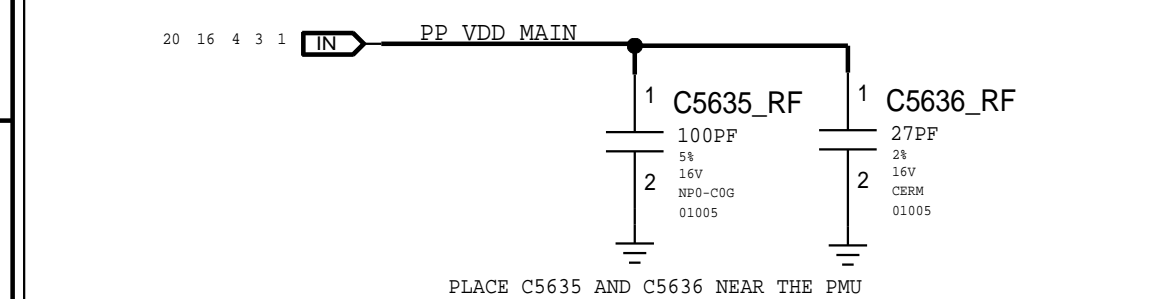


PMU: SWITCHERS AND LDOS

SWITCHERS BULK CAPS

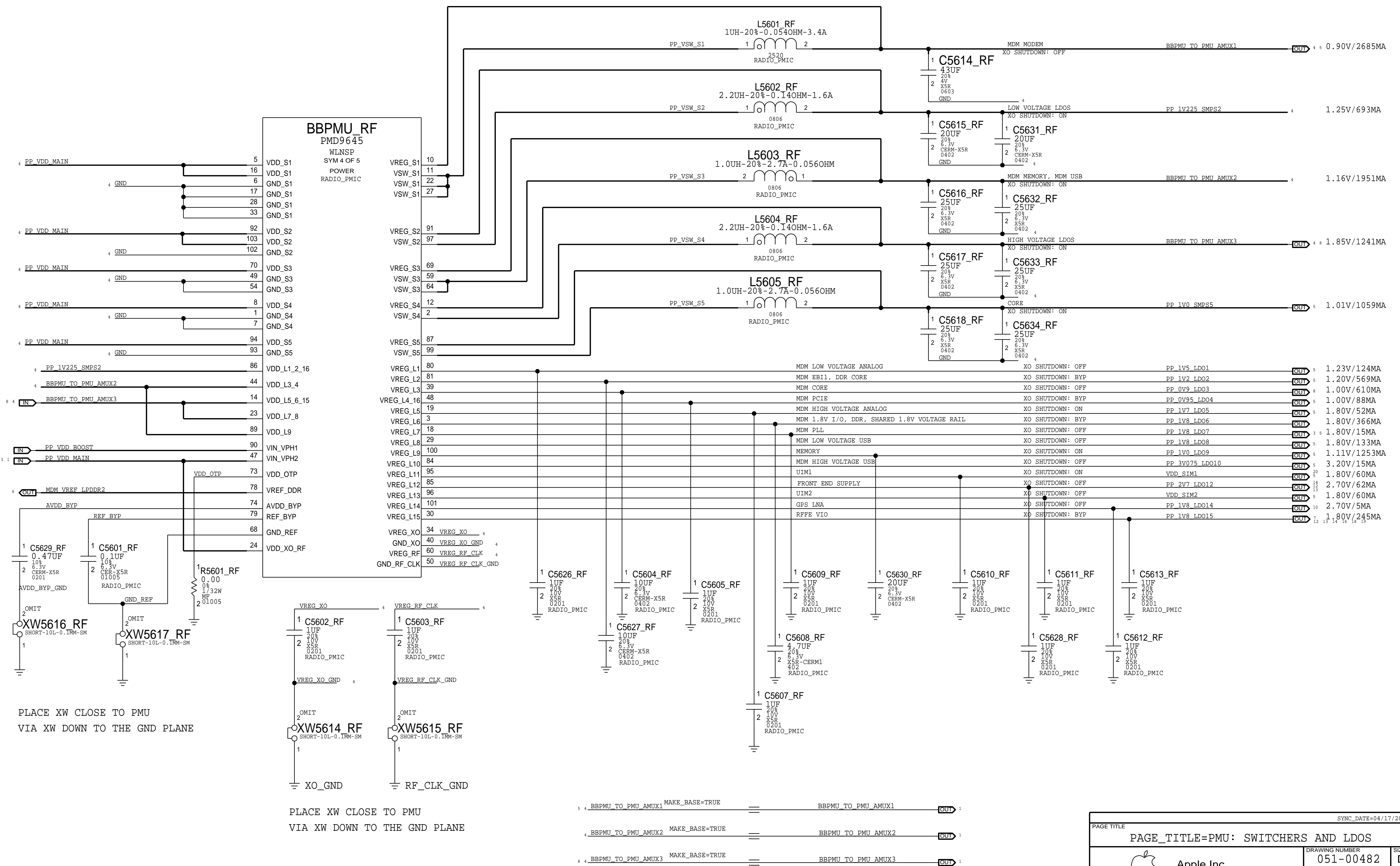


DESENSE CAPS




PLACE XW CLOSE TO PMU
VIA XW DOWN TO THE GND PLANE

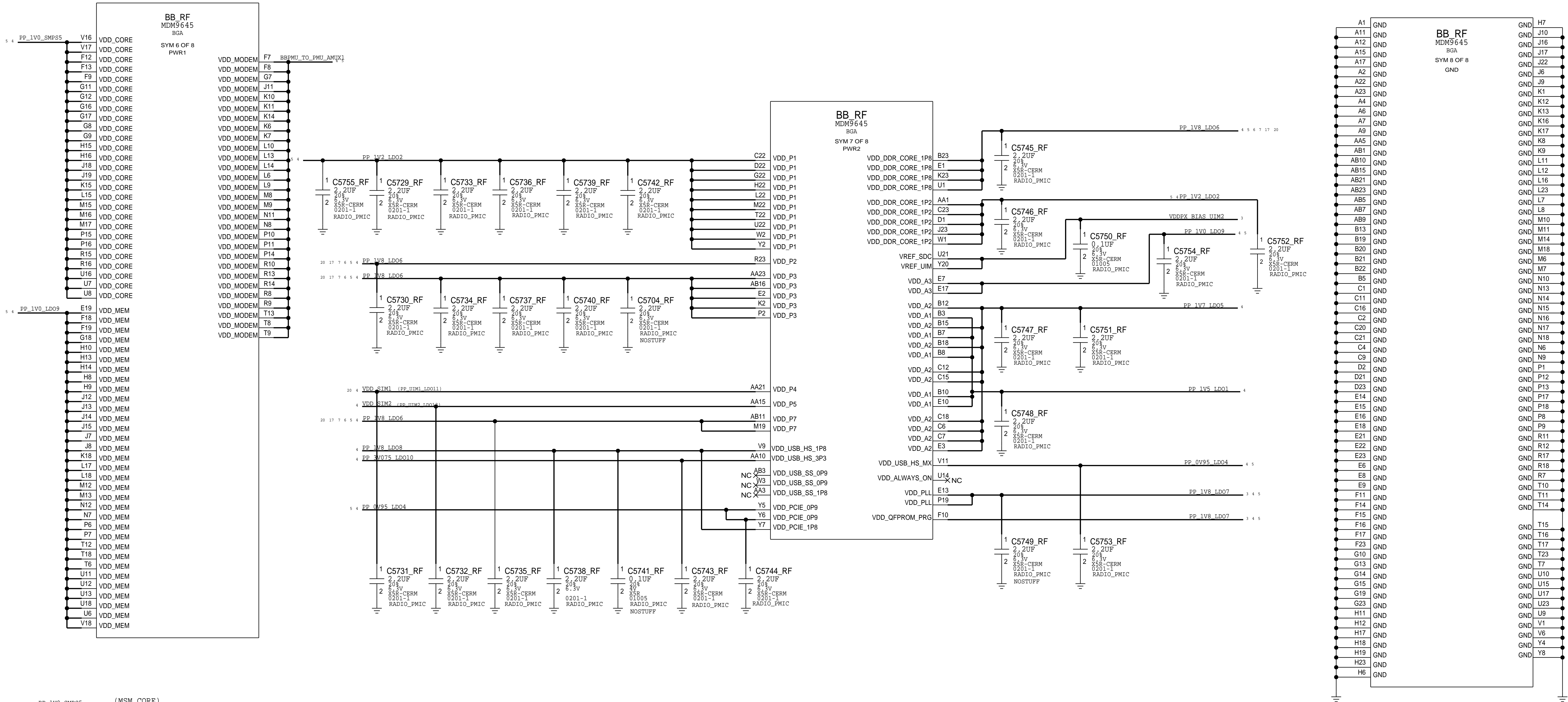
PLACE XW CLOSE TO PMU
VIA XW DOWN TO THE GND PLANE



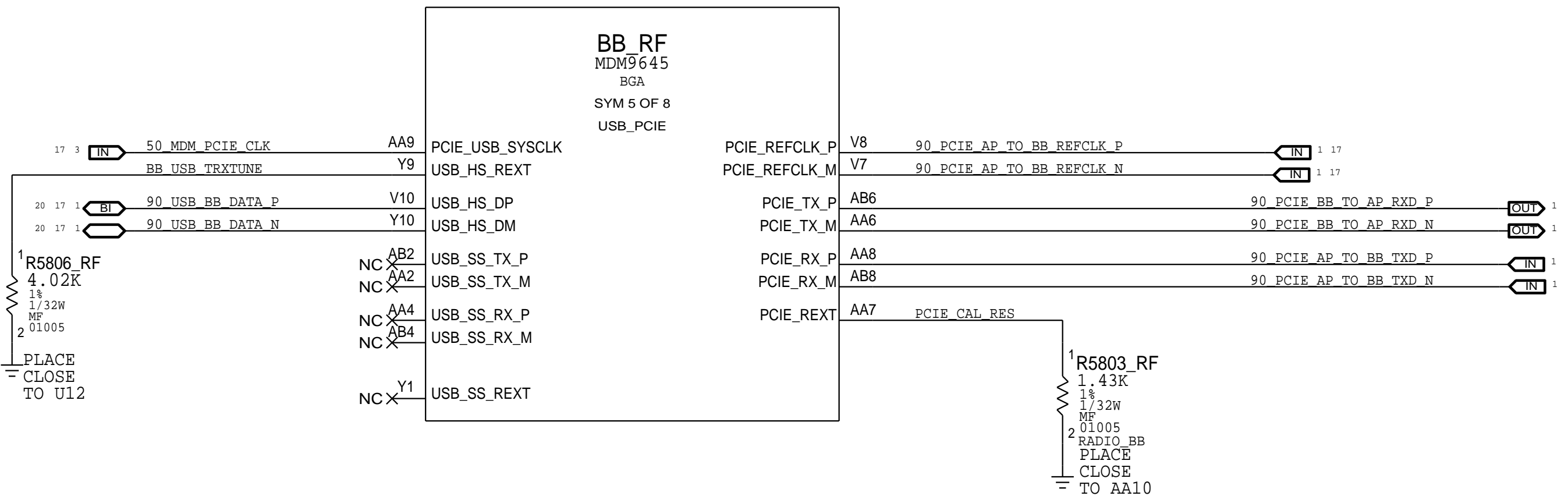
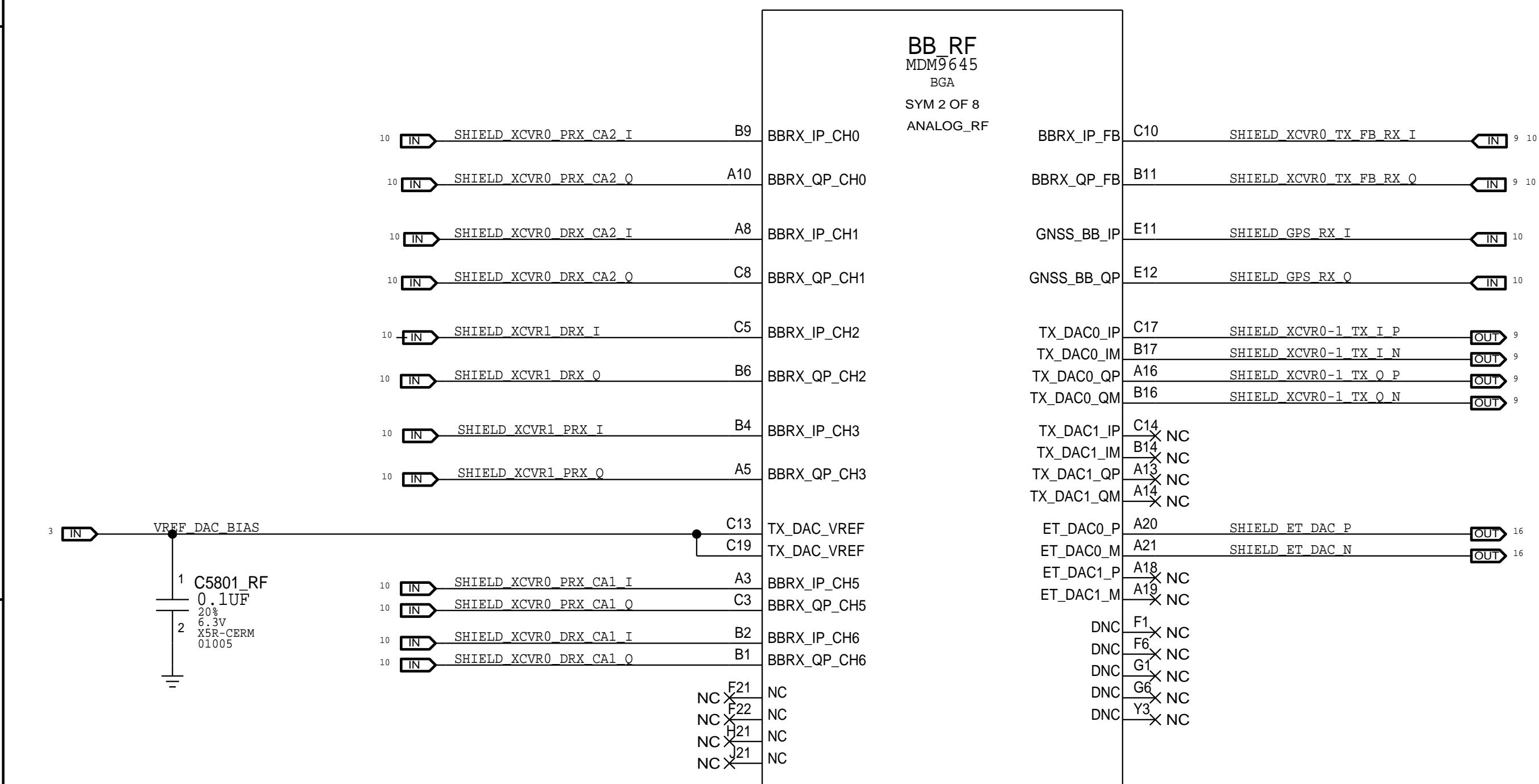
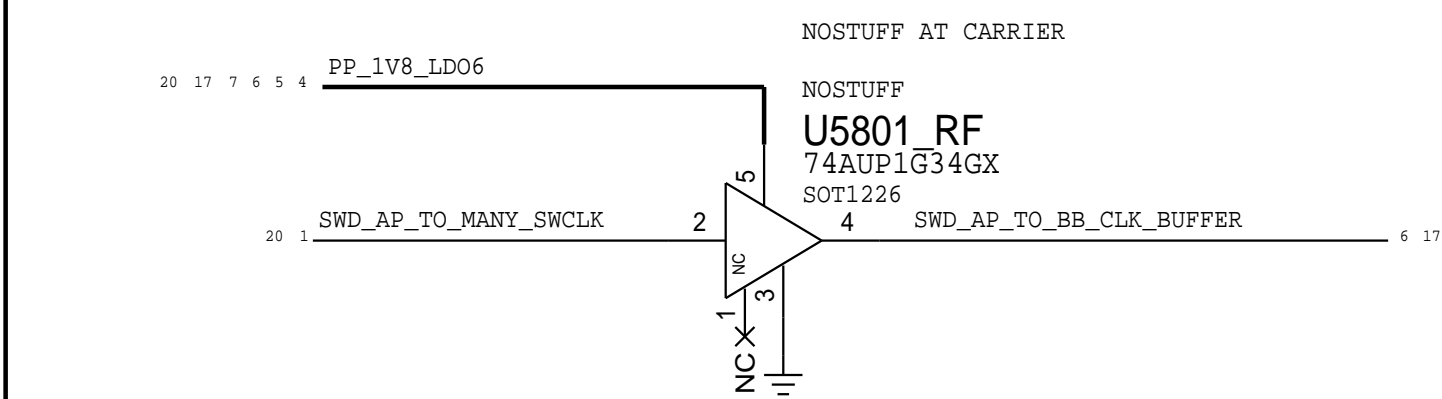
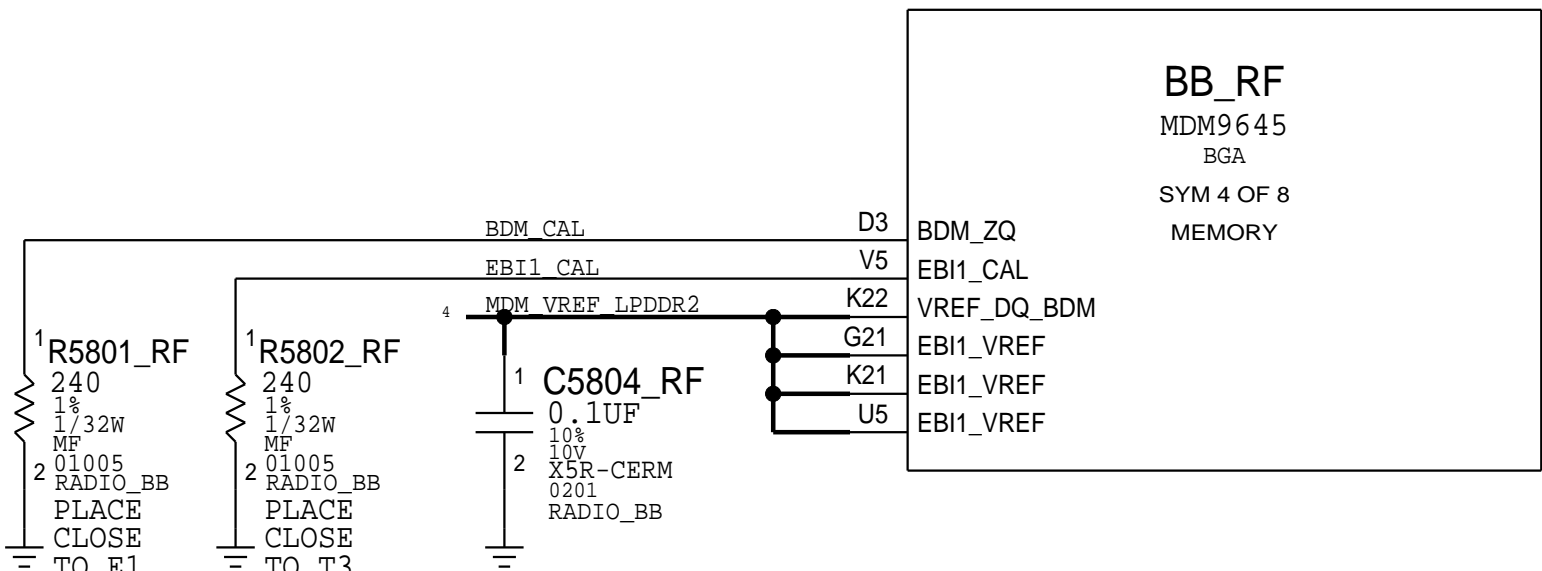
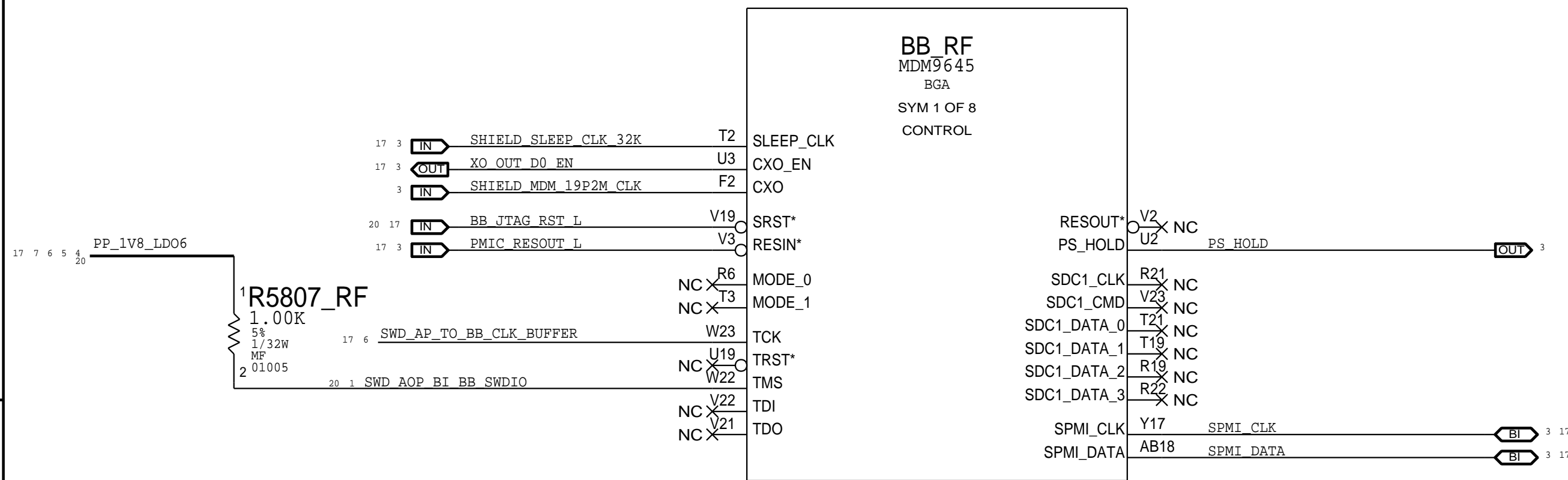
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BASEBAND: POWER



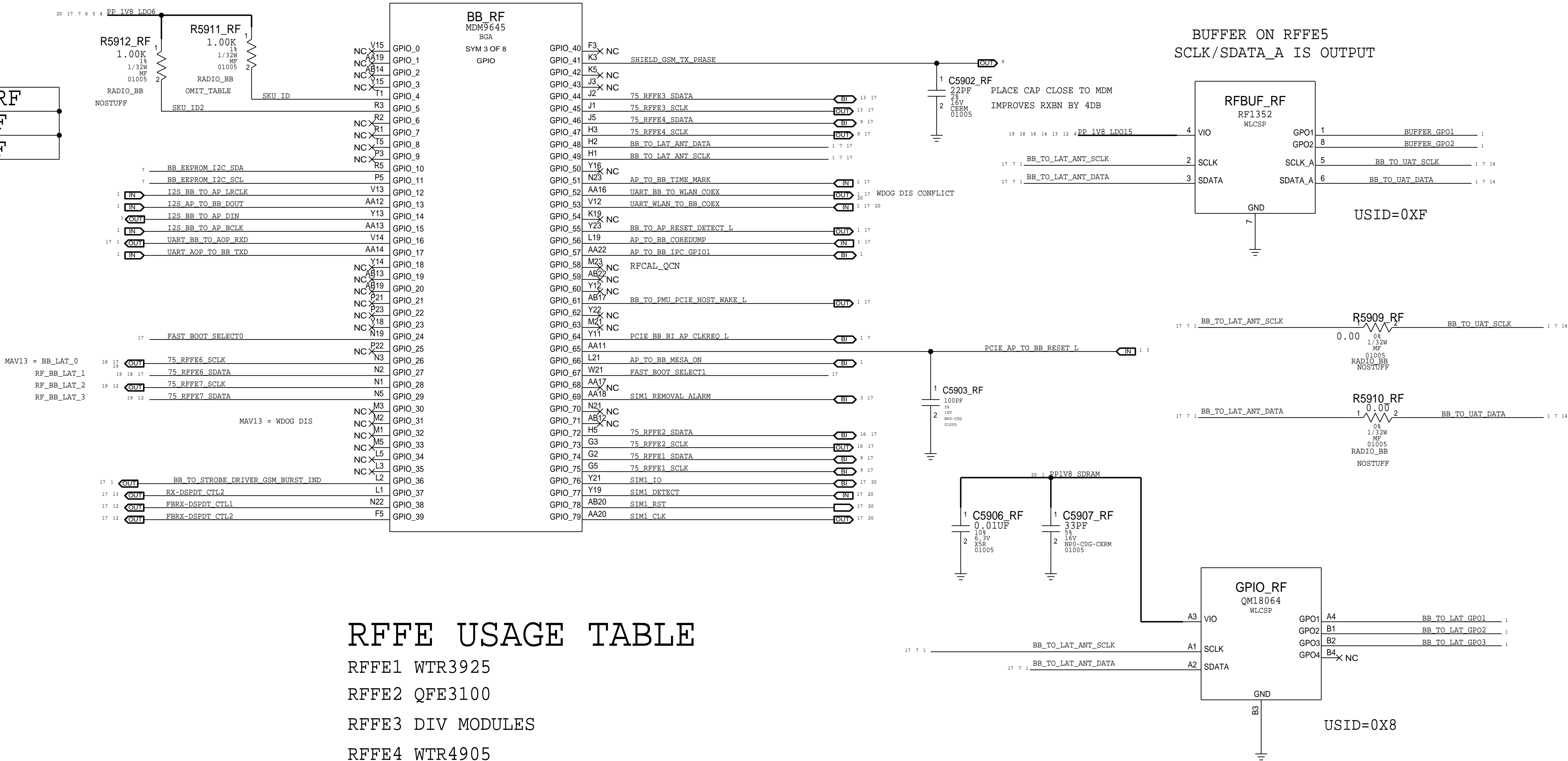
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		BRANCH			
		PAGE		58 OF 72	
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BASEBAND: GPIOs

SKU	R5911_RF	R5912_RF
ROW	NOSTUFF	NOSTUFF
JP	1.0 KOHM	NOSTUFF



RFFE USAGE TABLE

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RFFE2 QFE3100

RFFE3 DIV MODULES

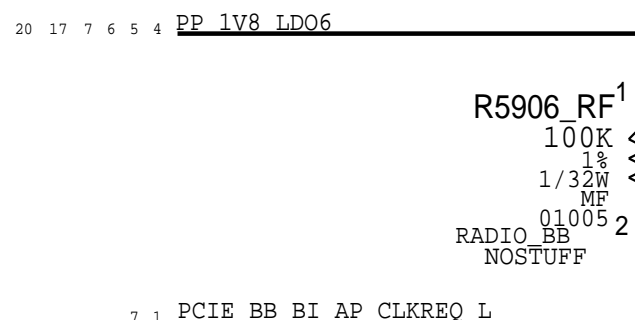
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RFFE5 TUNERS + ELNAS

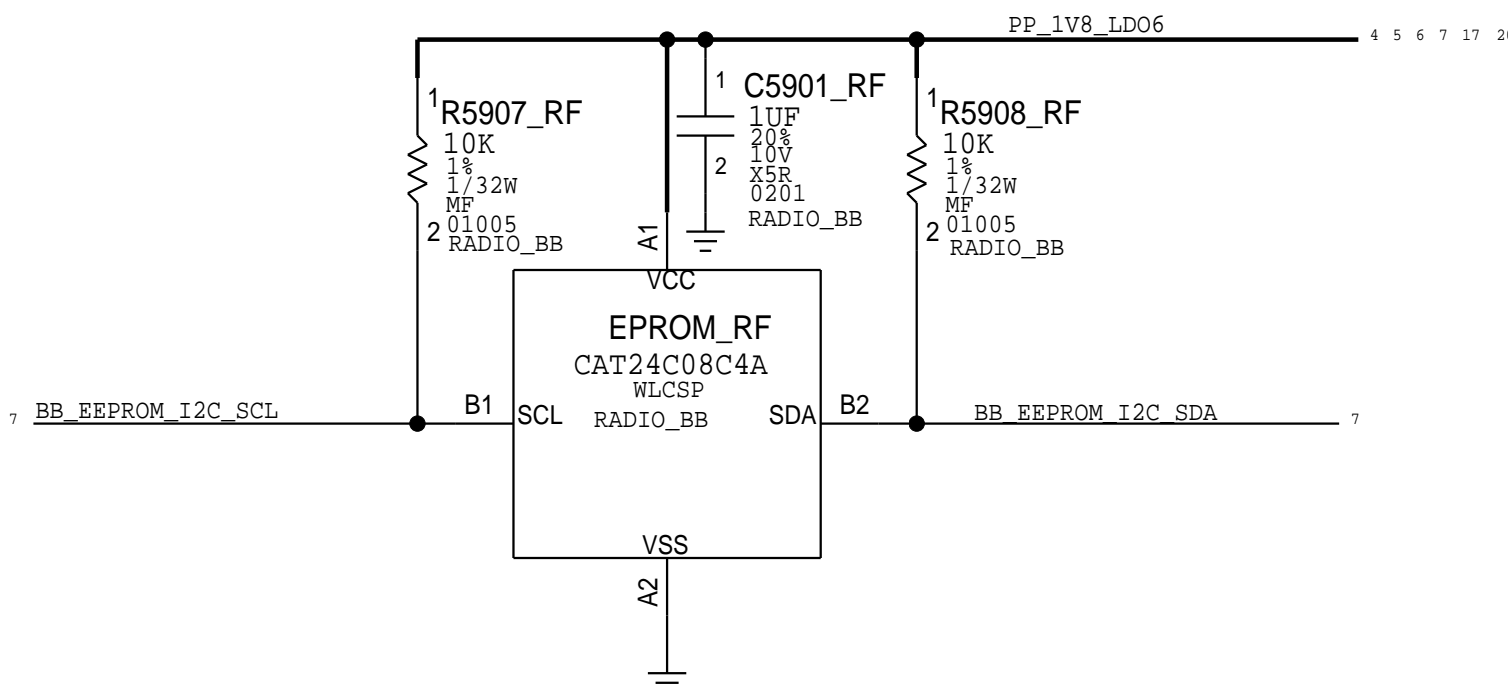
RFFE6 2G PA,MLB PA,MB/HB TDD PA,MB/HB FDD PA

RFFE7 LB PA, COUPLERS

PCIE PULL-UPS TO BB RAIL



BB EEPROM

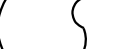


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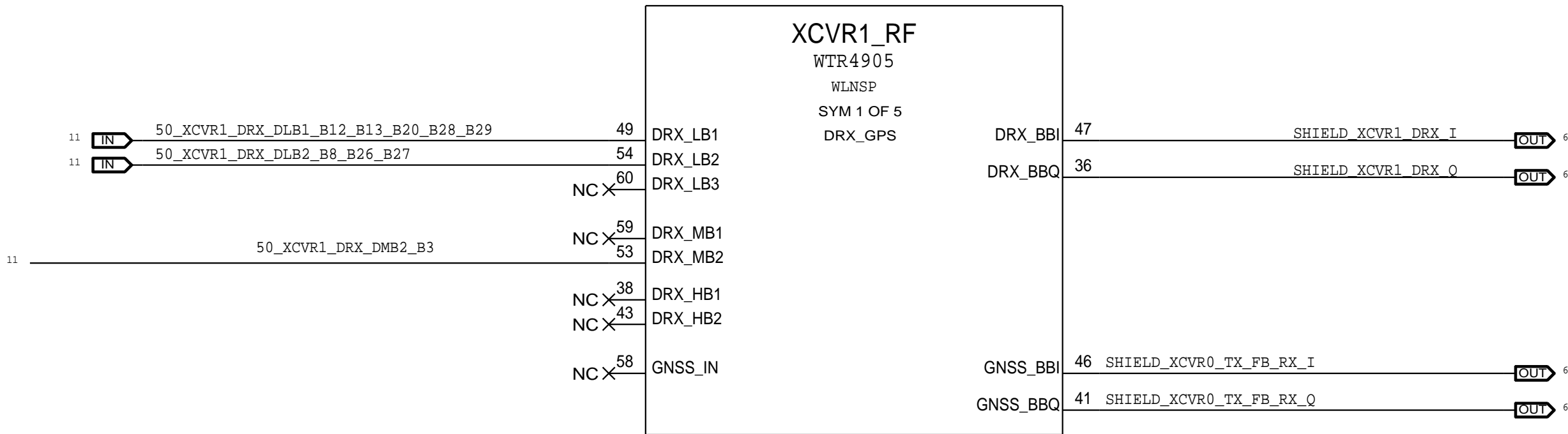
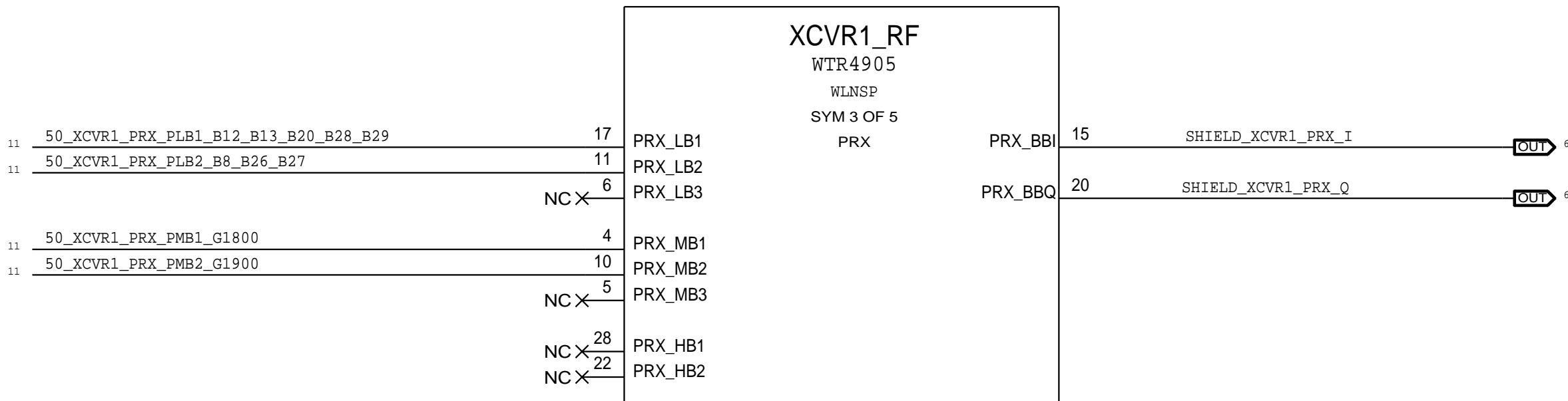
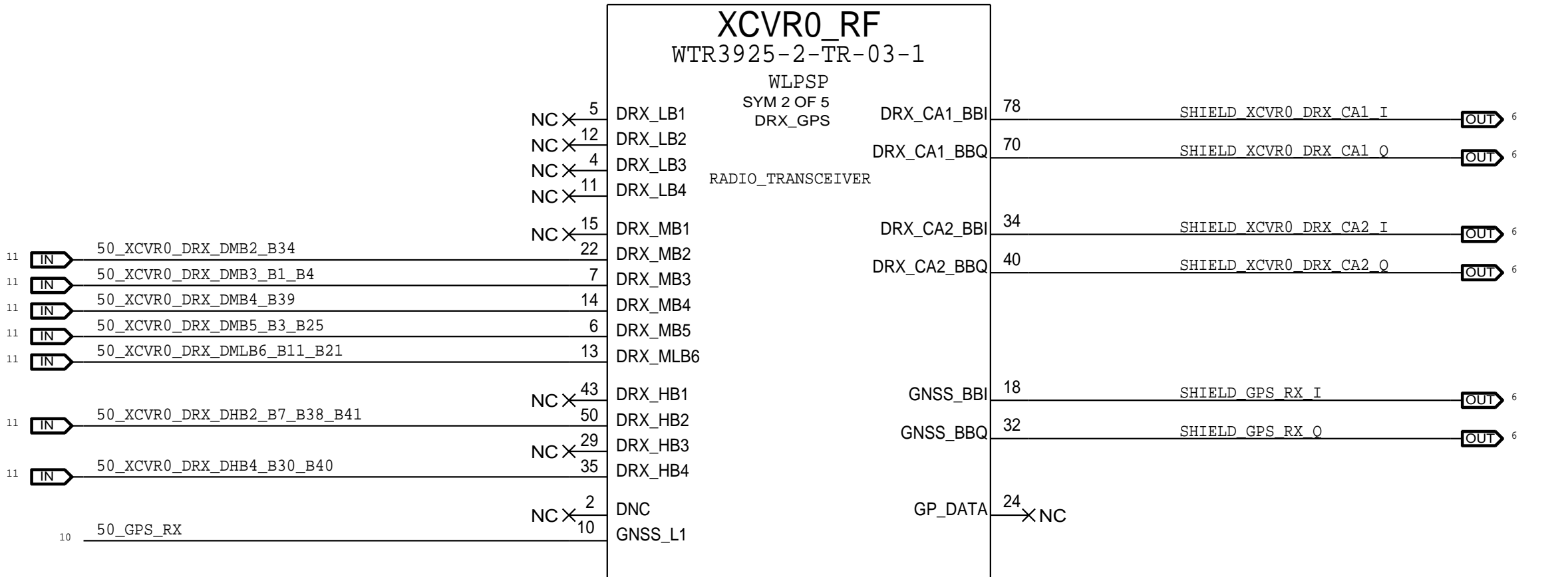
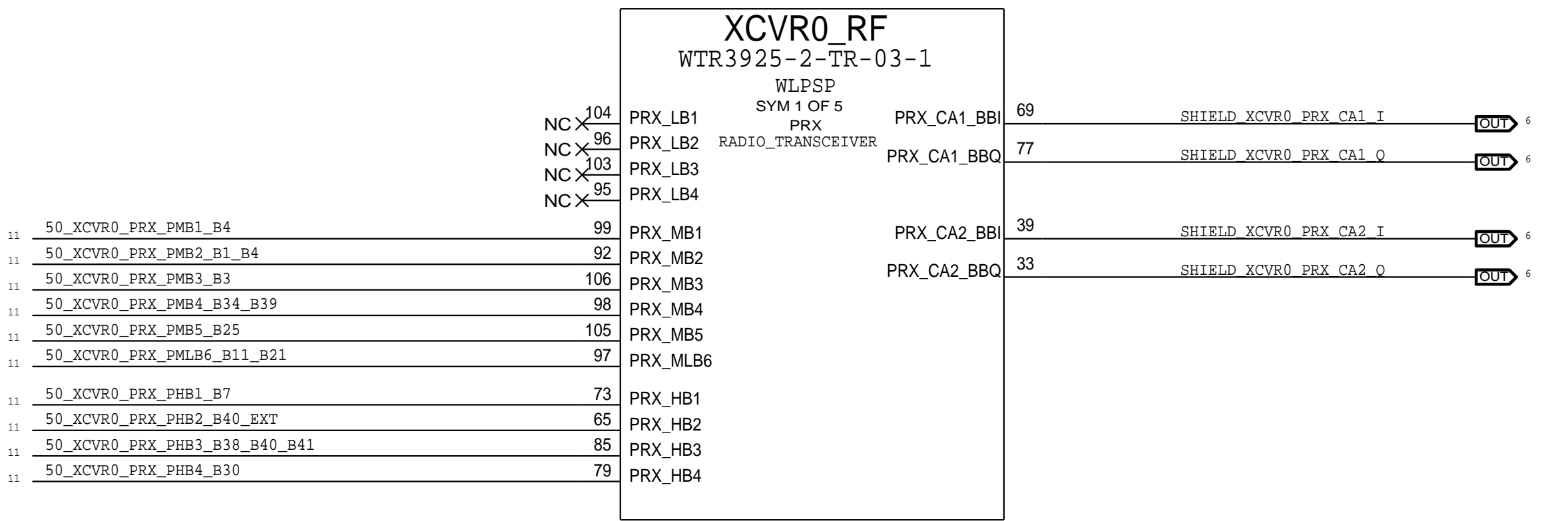
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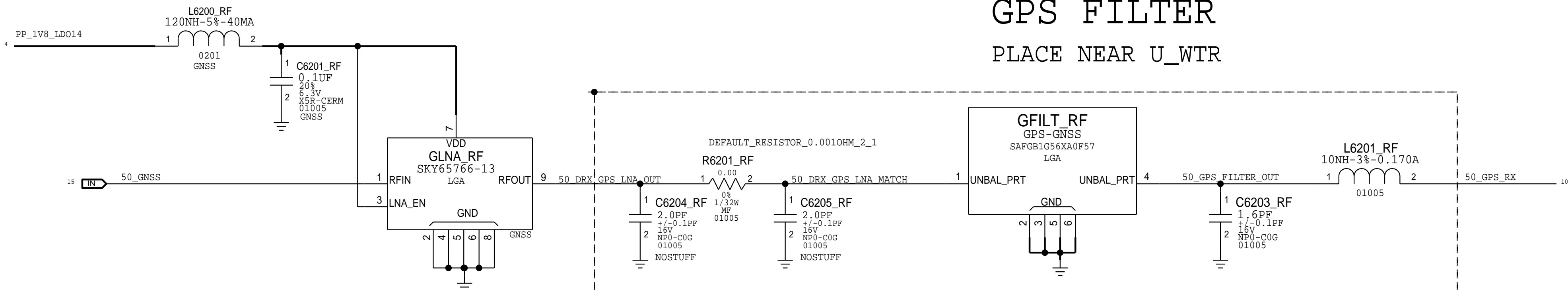



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TRANSCEIVER: PRX, DRX, & GPS PORTS



GPS FILTER
PLACE NEAR U_WTR



PAGE TITLE				SYNC_DATE=04/17/2015	
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PRIMARY & DIVERSITY RECEIVE MATCHING

DC BLOCKING CAP VALUES CANNOT BE MORE THAN 33PF

D

C

B

A

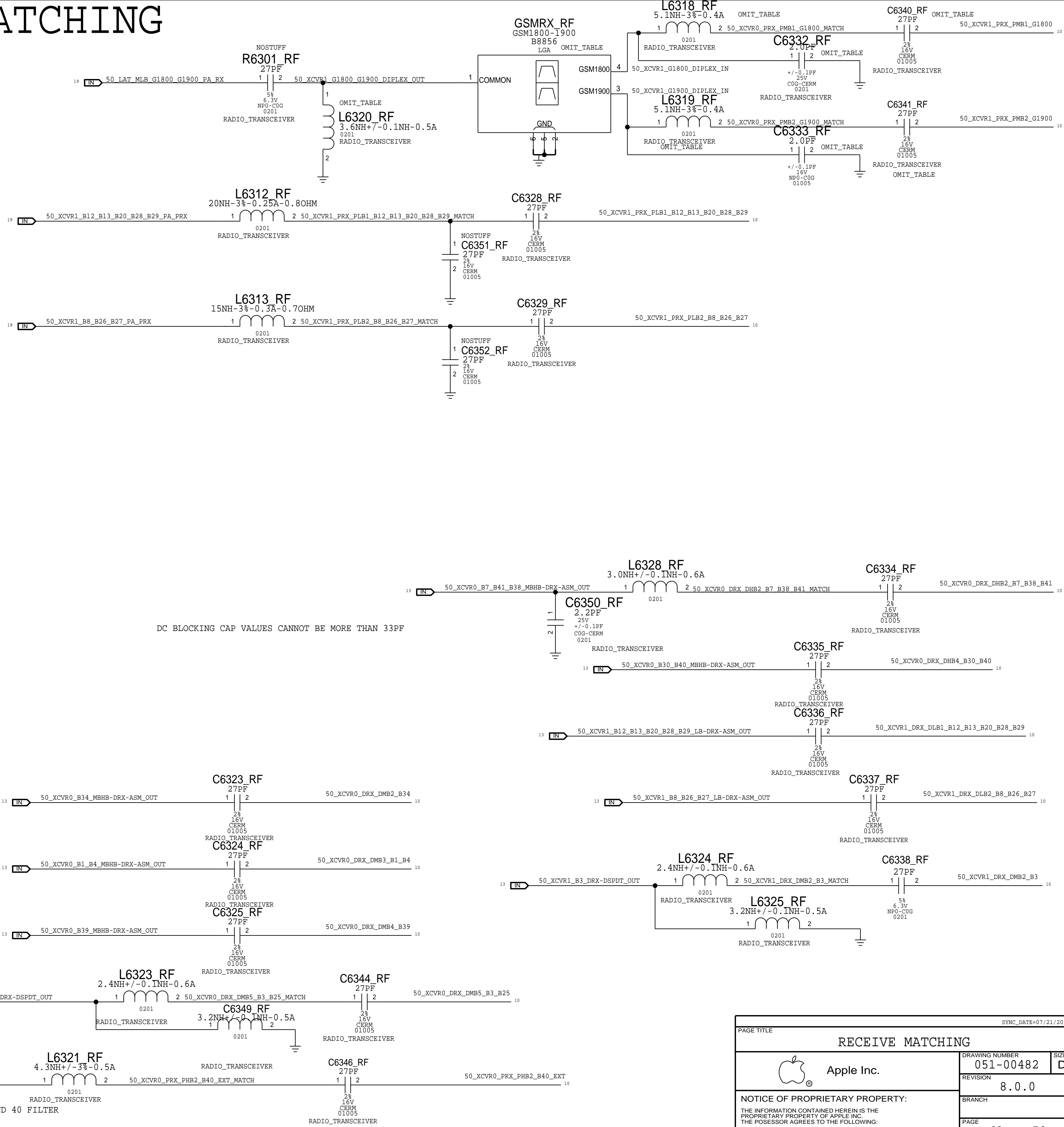
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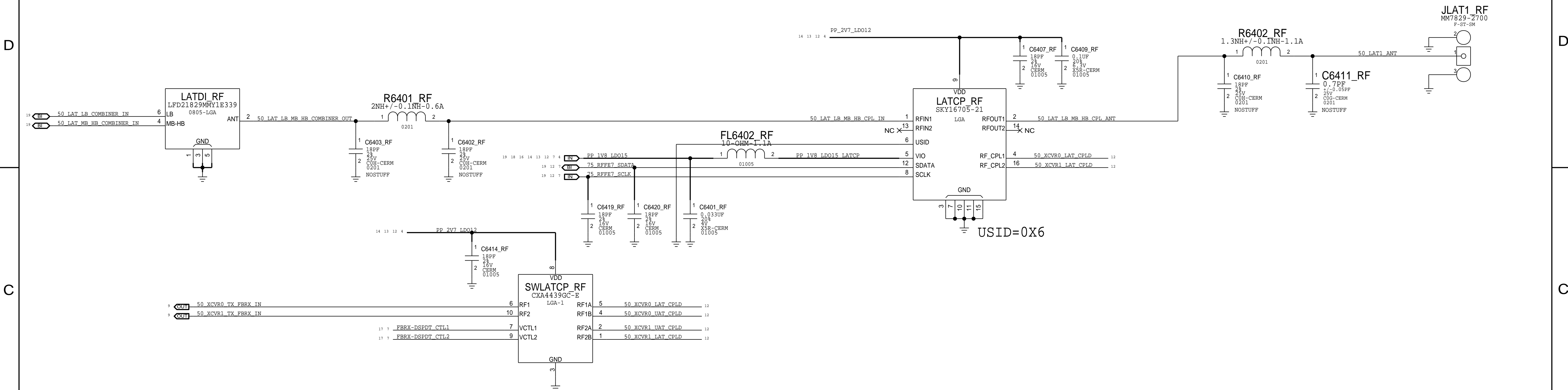
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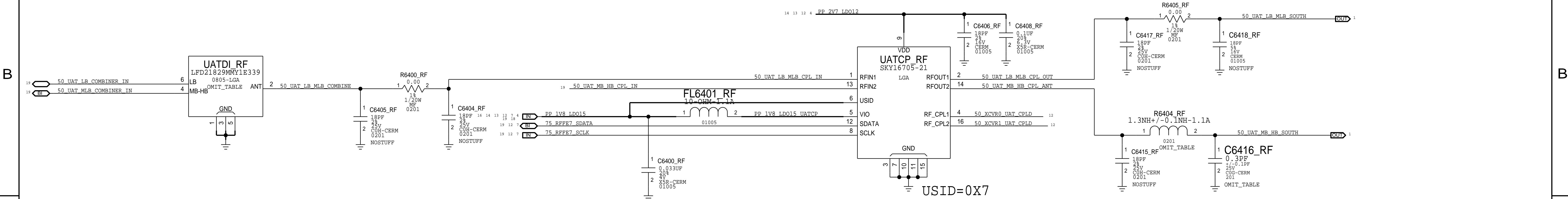


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LOWER ANTENNA AND COUPLER

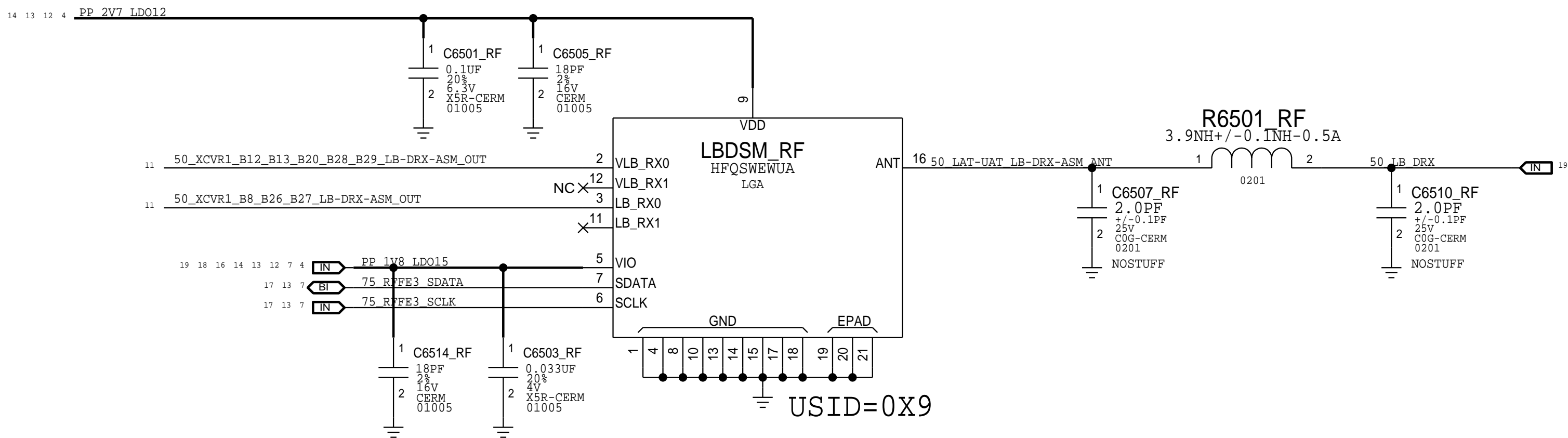


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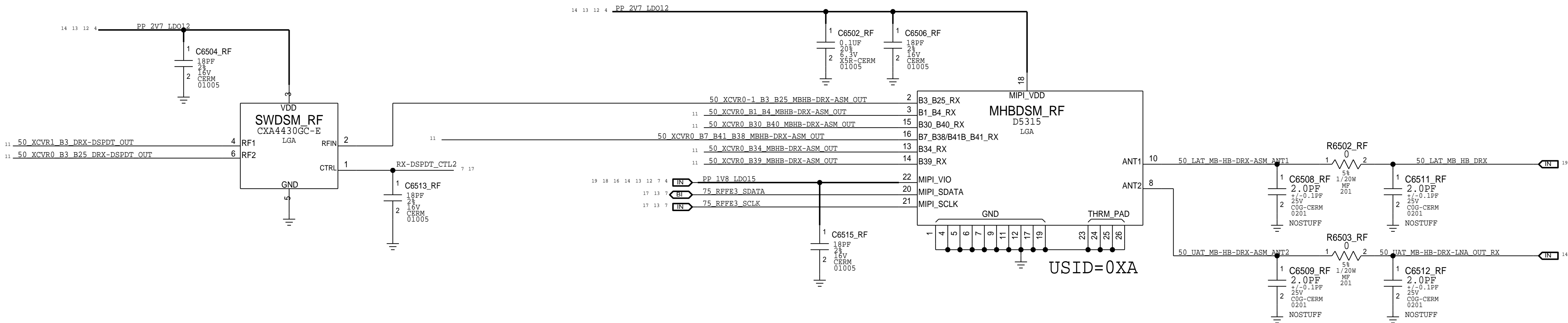


DIVERSITY RECEIVE

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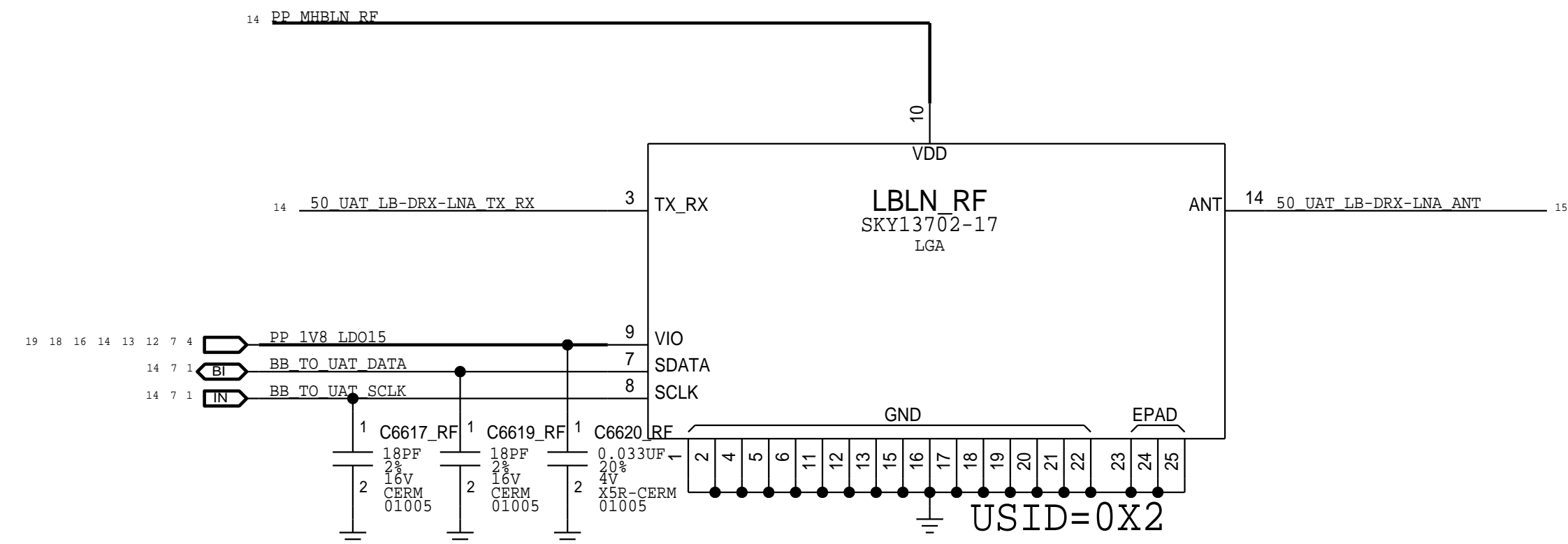


MB HB DRX ASM

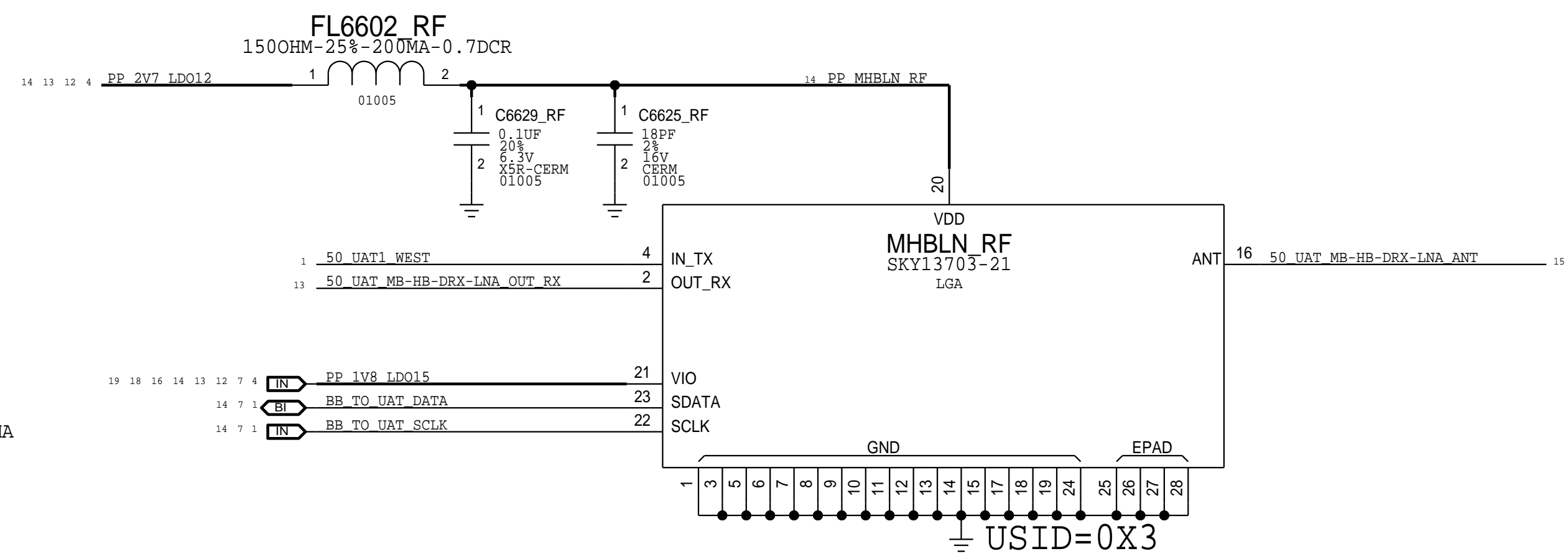


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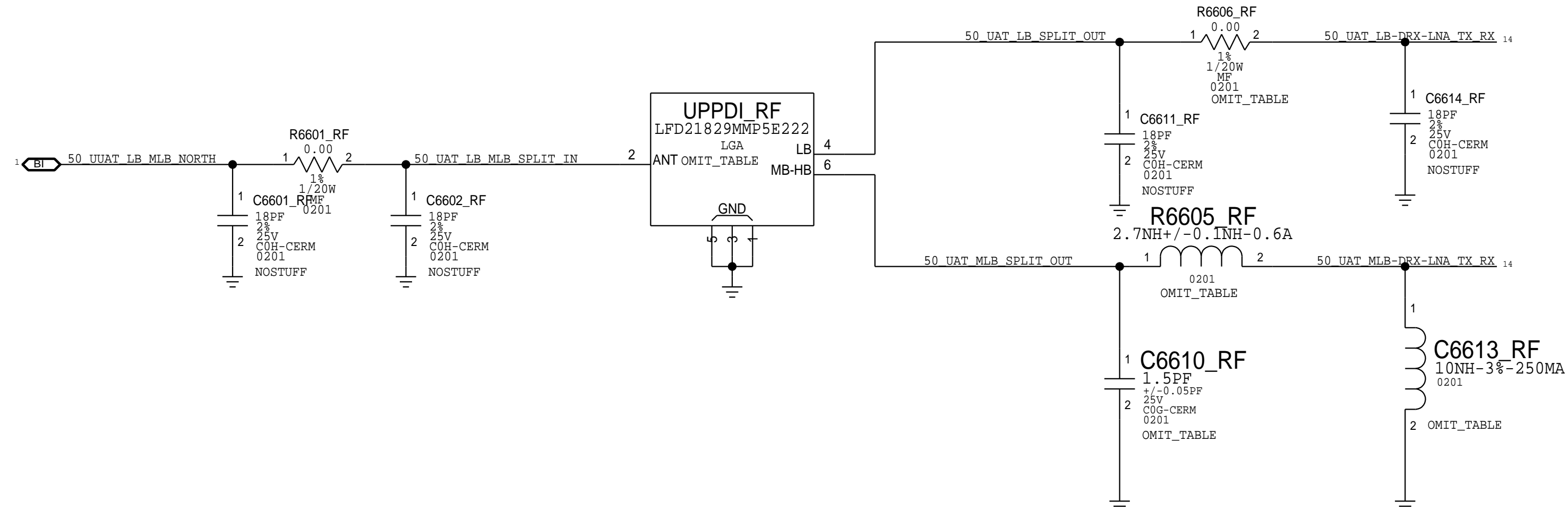
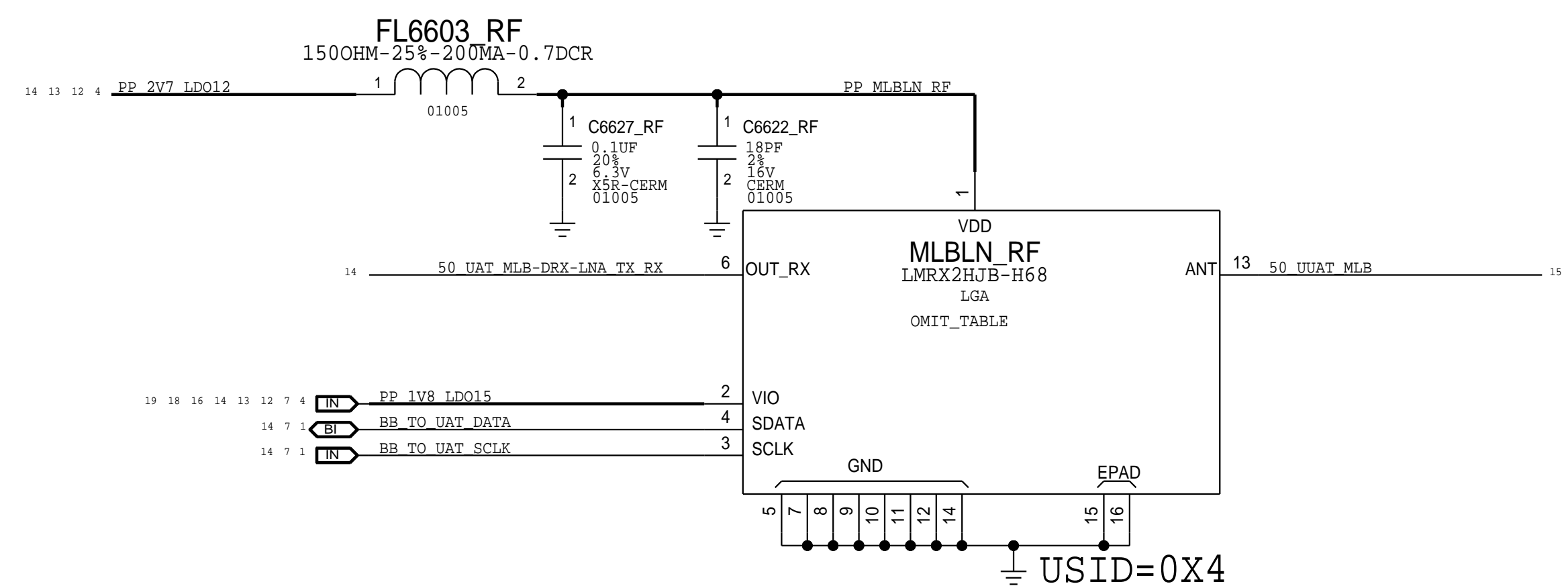
LB DRX LNA




MB / HB DRX LNA



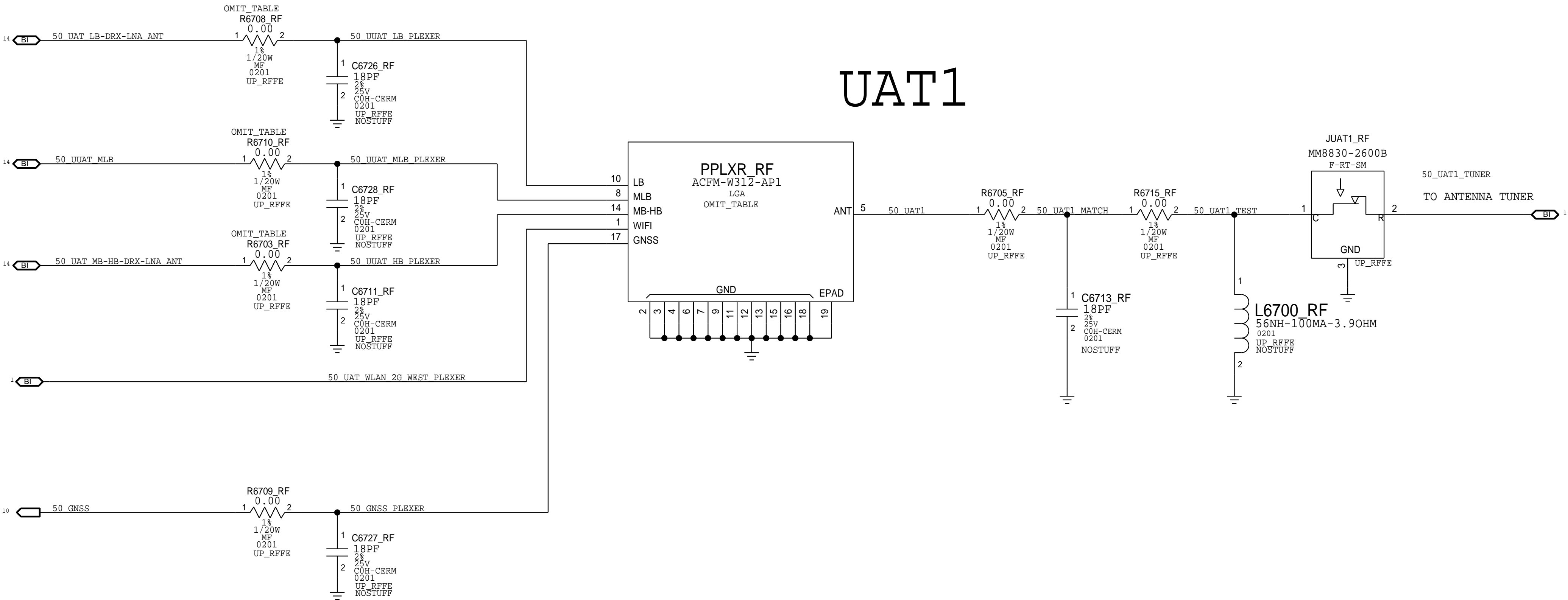
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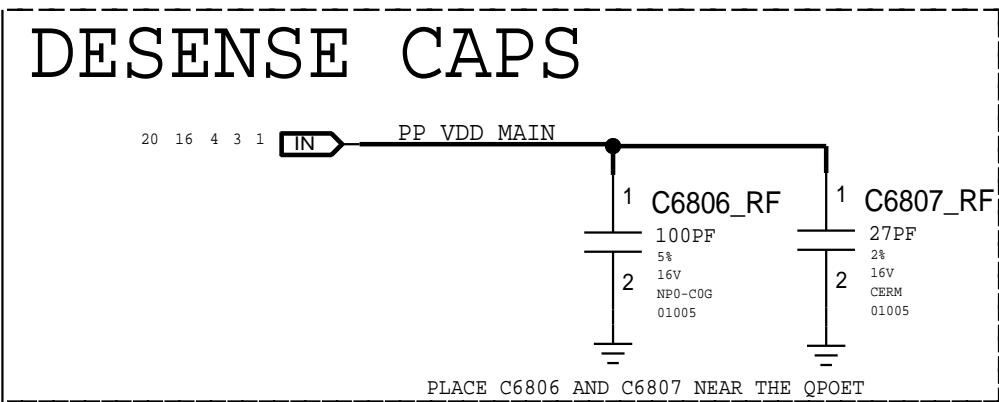
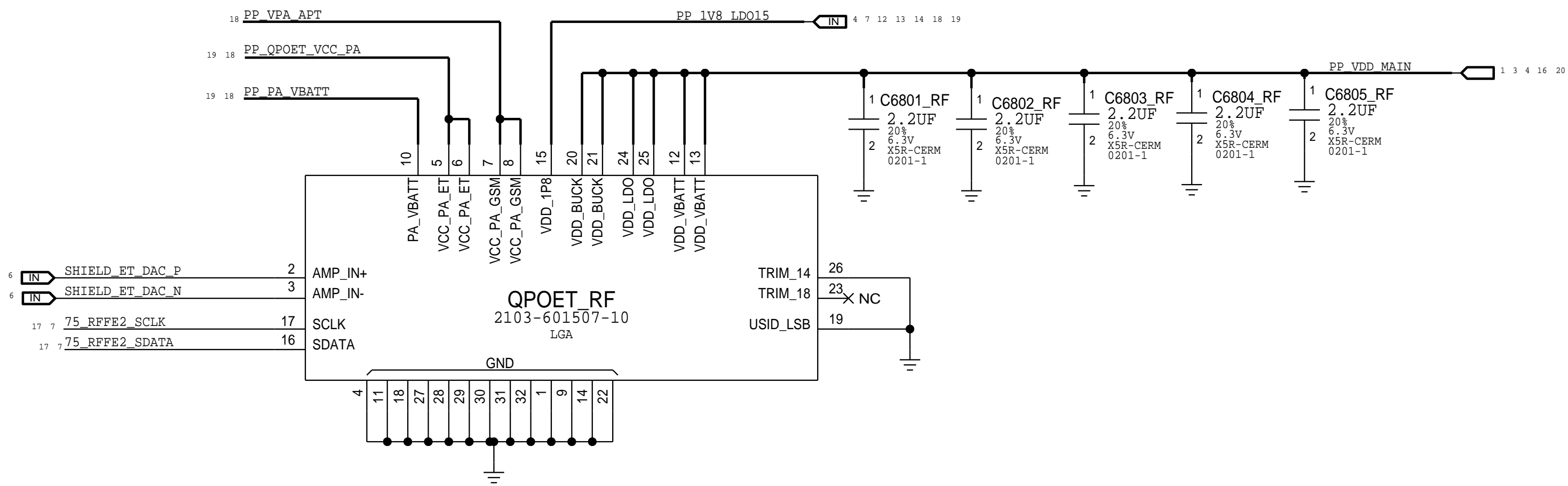
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UPPER ANTENNA FEEDS

UAT1



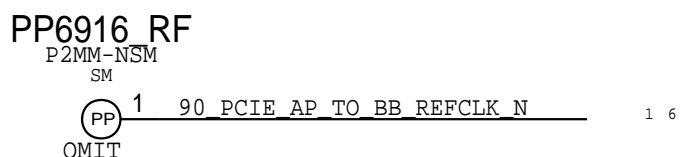
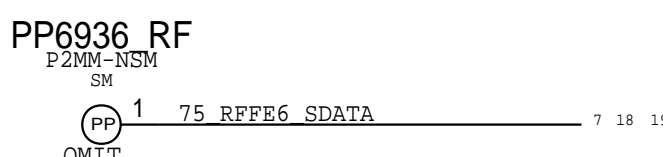
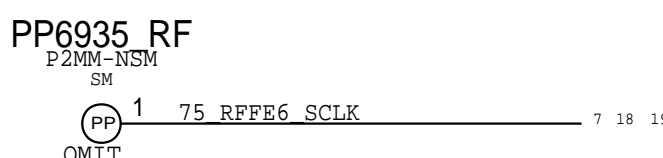
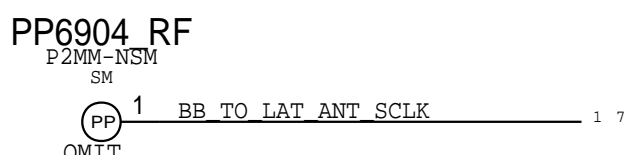
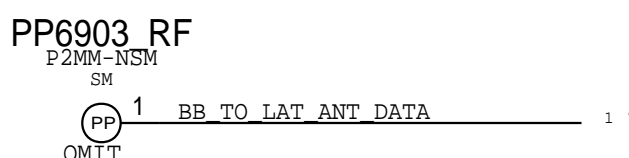
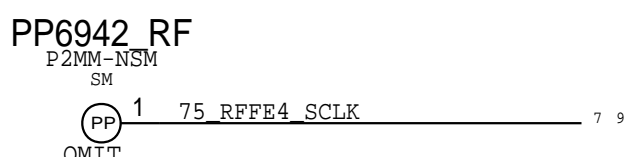
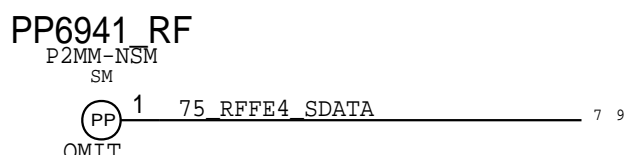
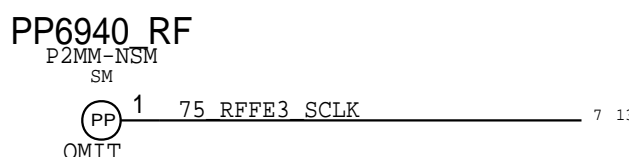
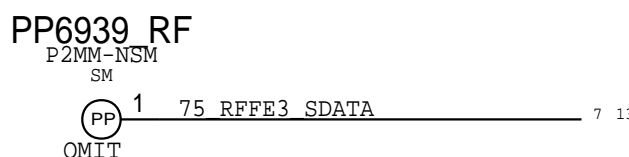
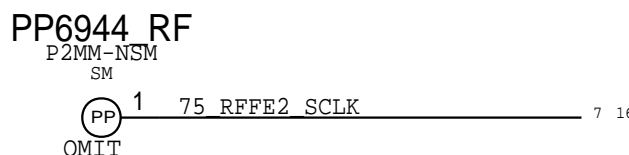
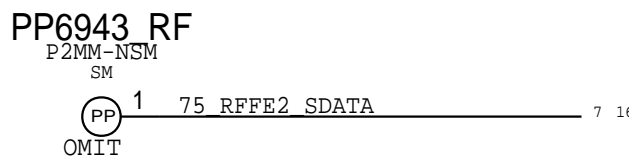
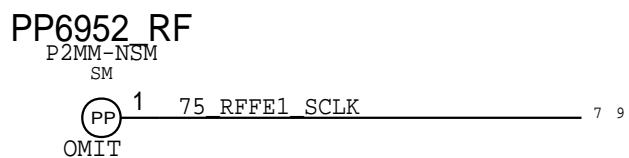
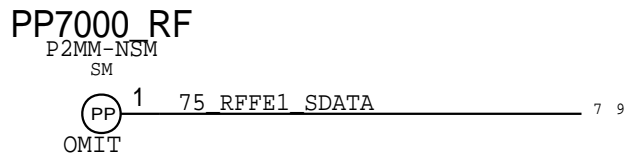
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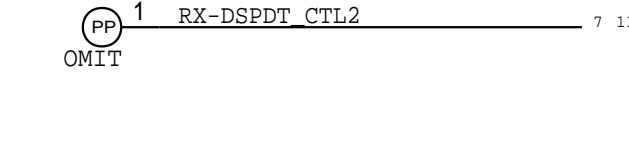
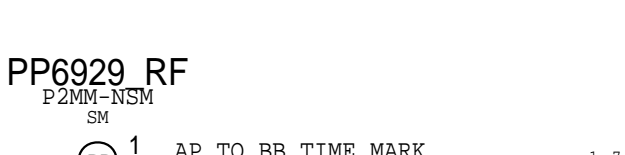
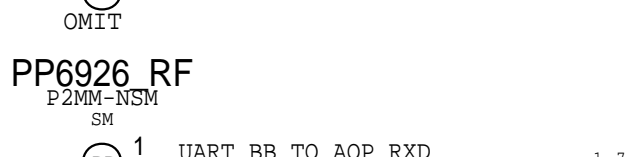
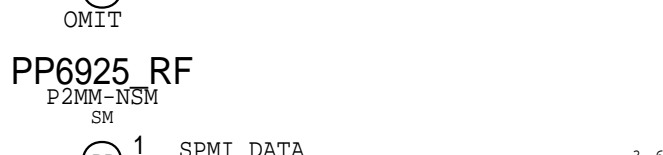
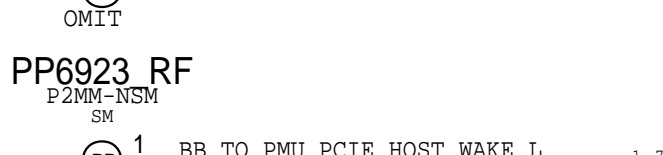
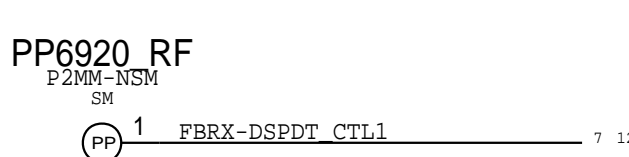
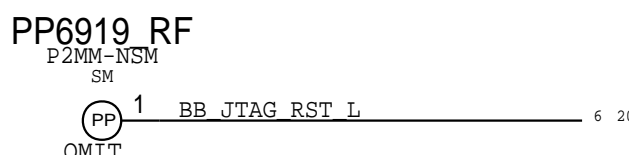
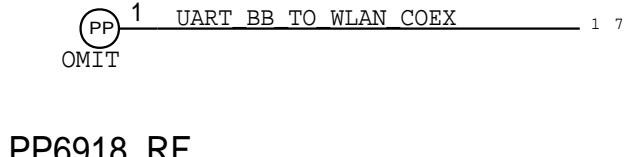
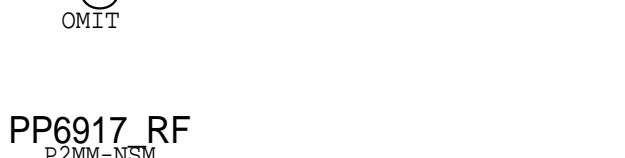
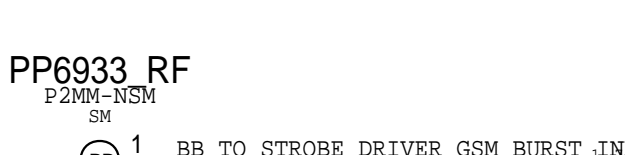
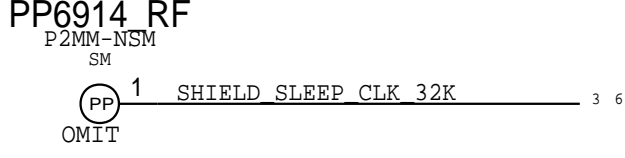
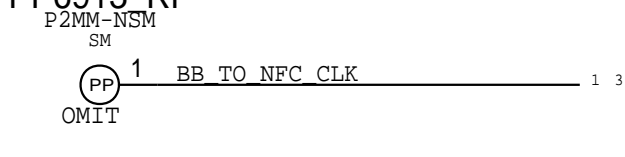
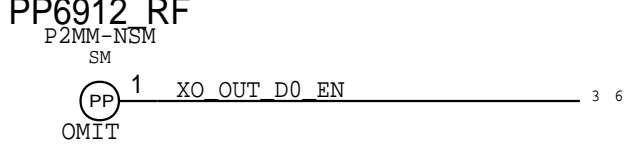
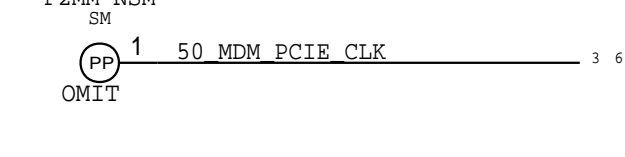
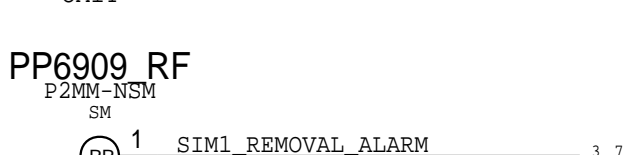
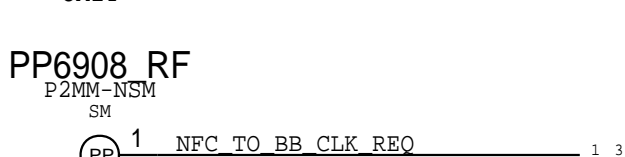
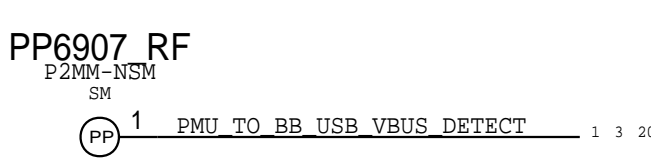
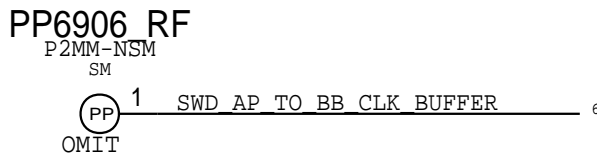
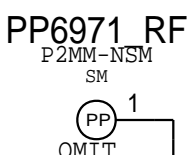
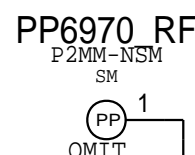
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MLB TEST POINTS

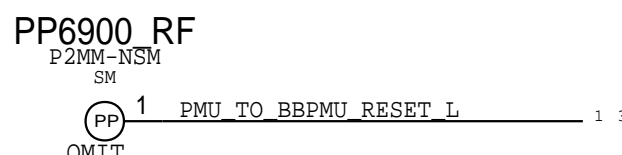
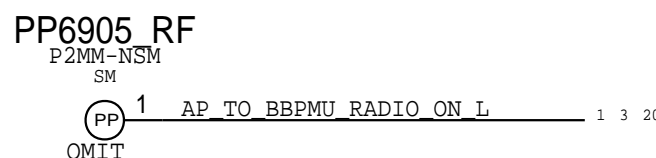
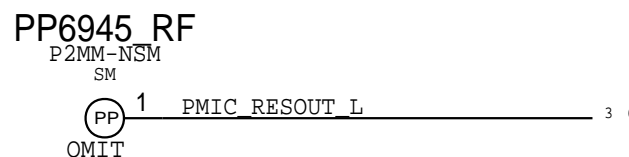
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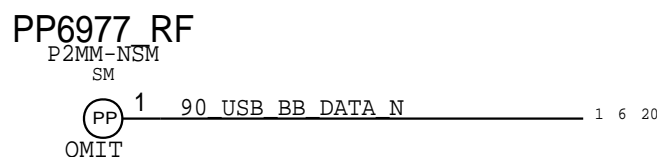
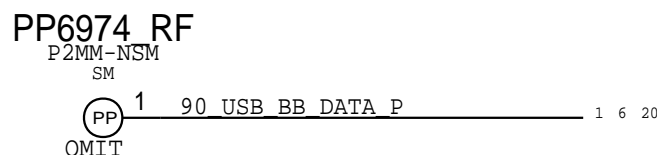
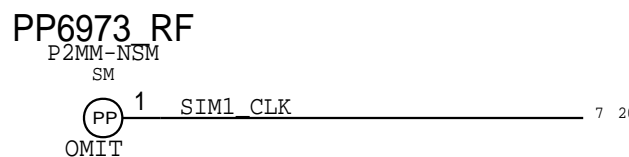
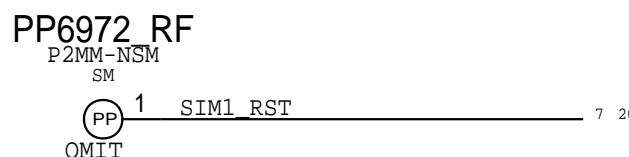
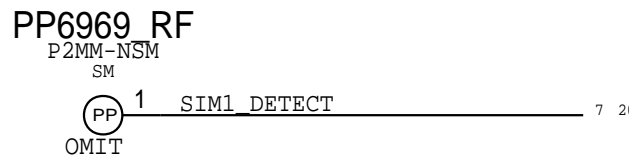
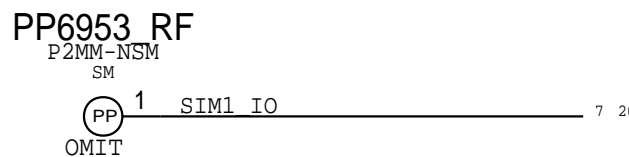
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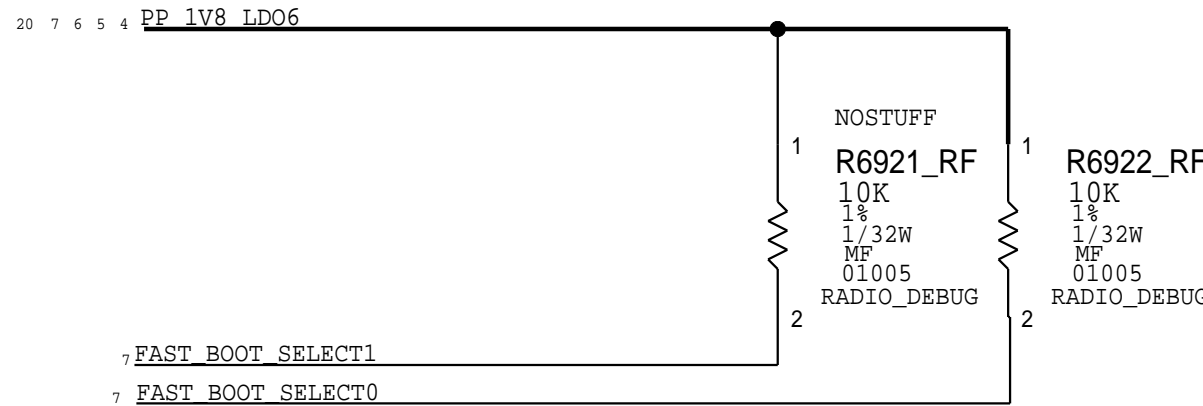
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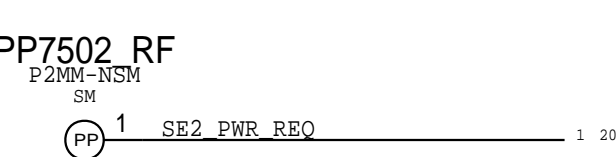
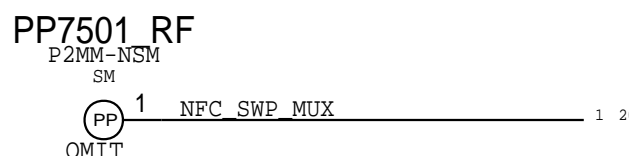
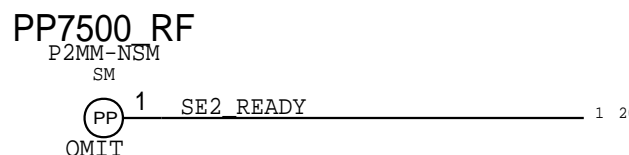
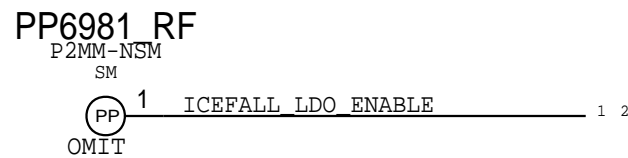
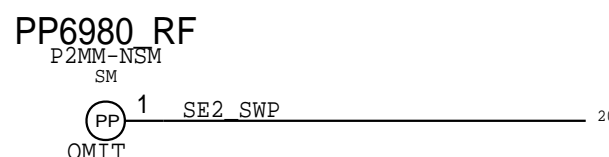
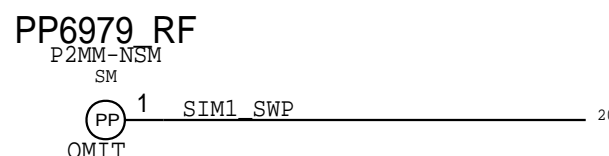
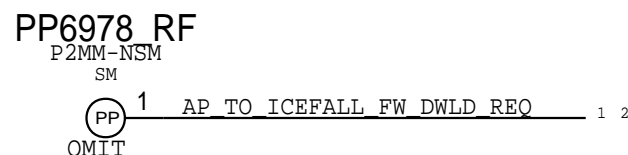
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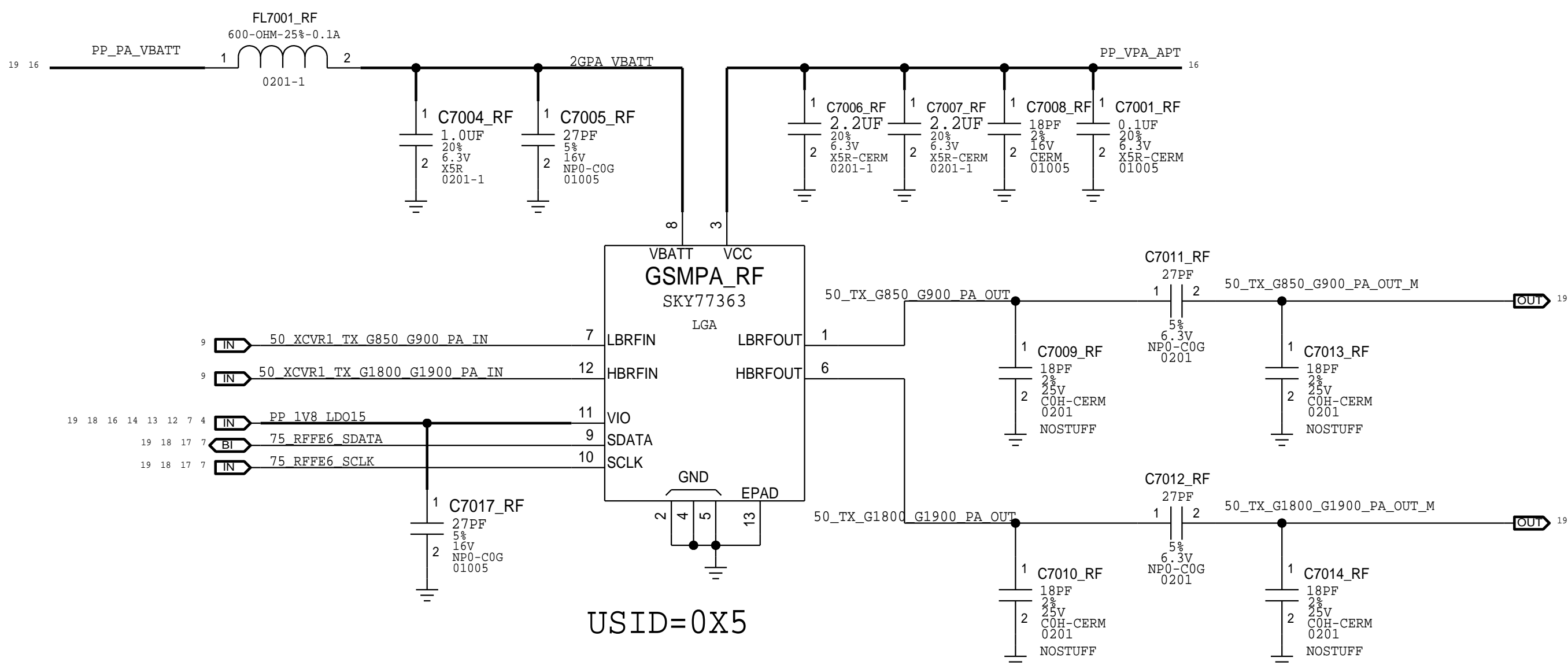
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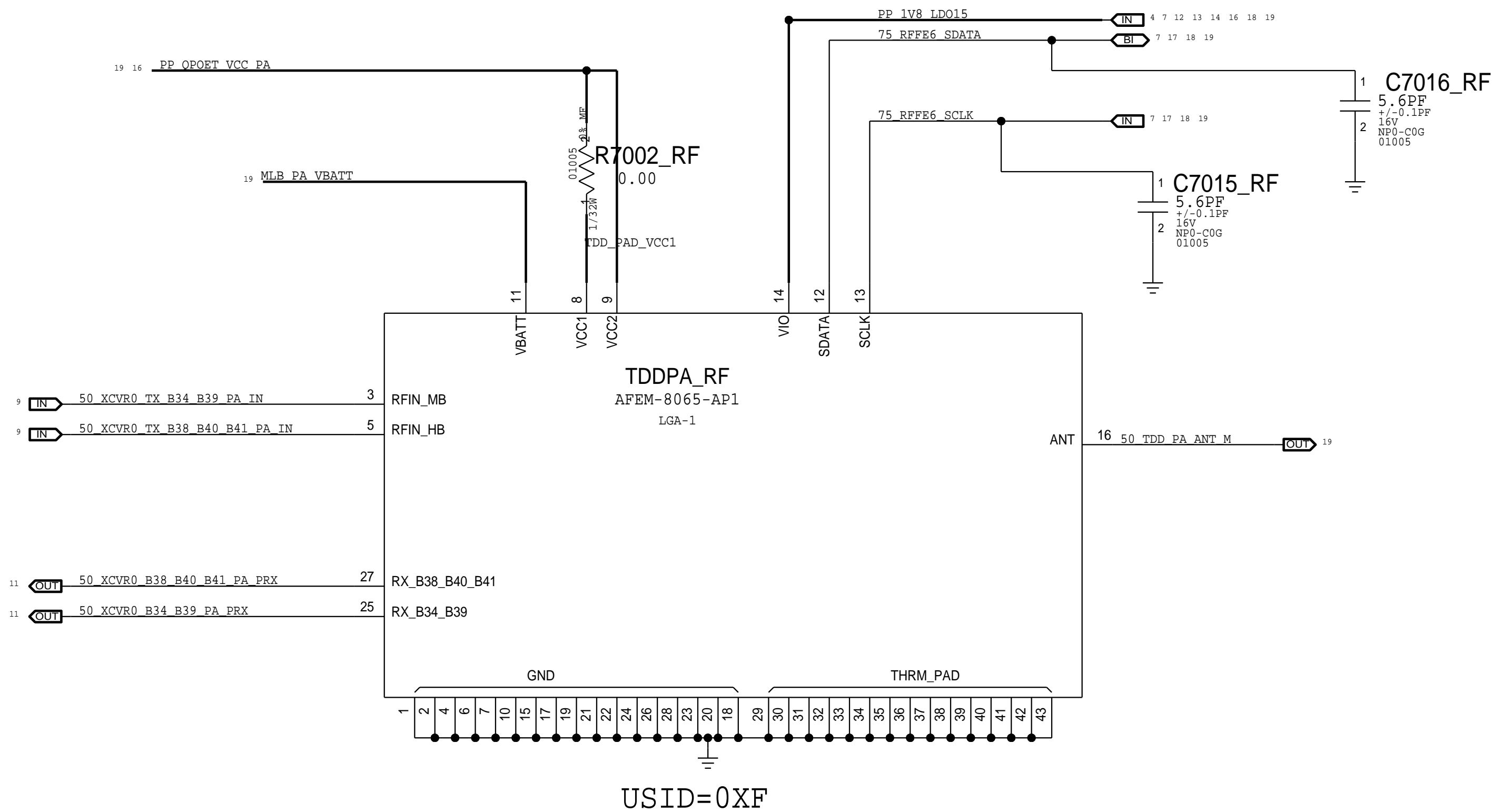
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2G PA



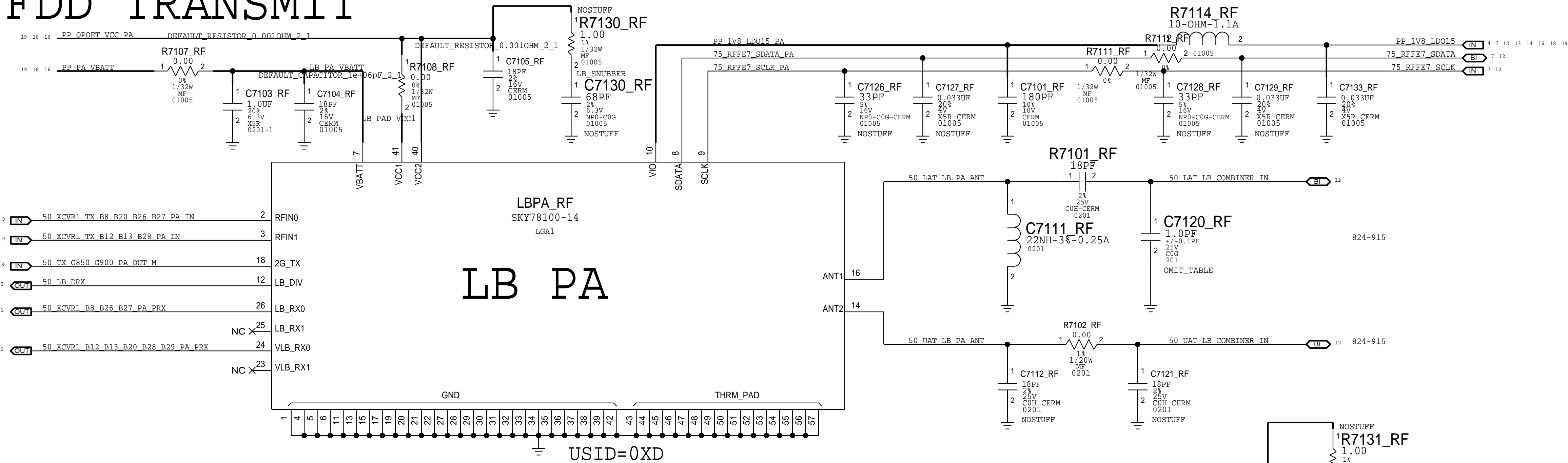
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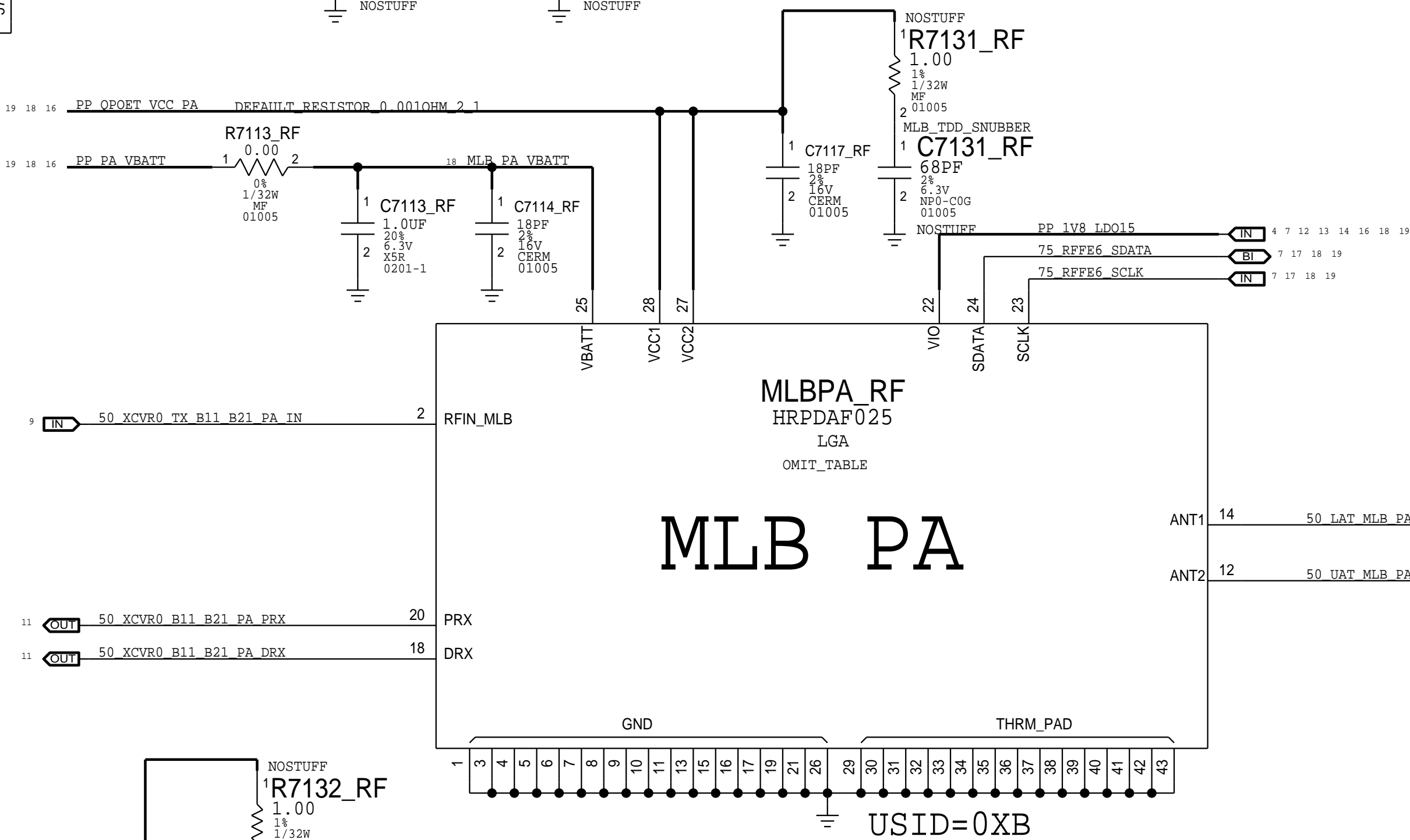
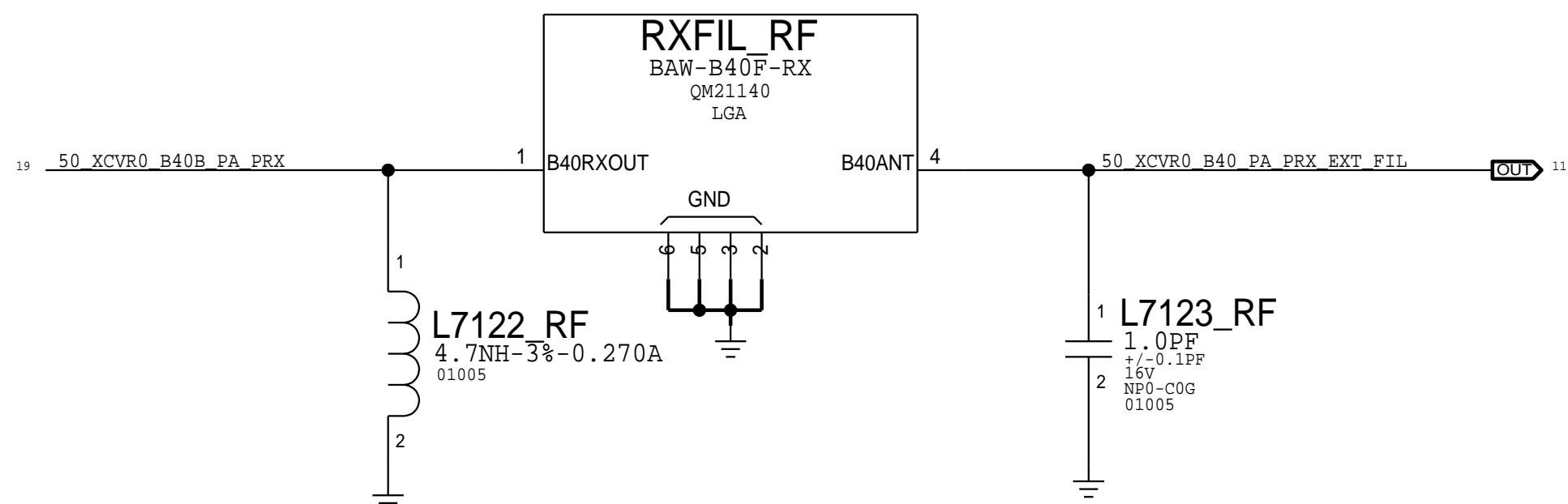
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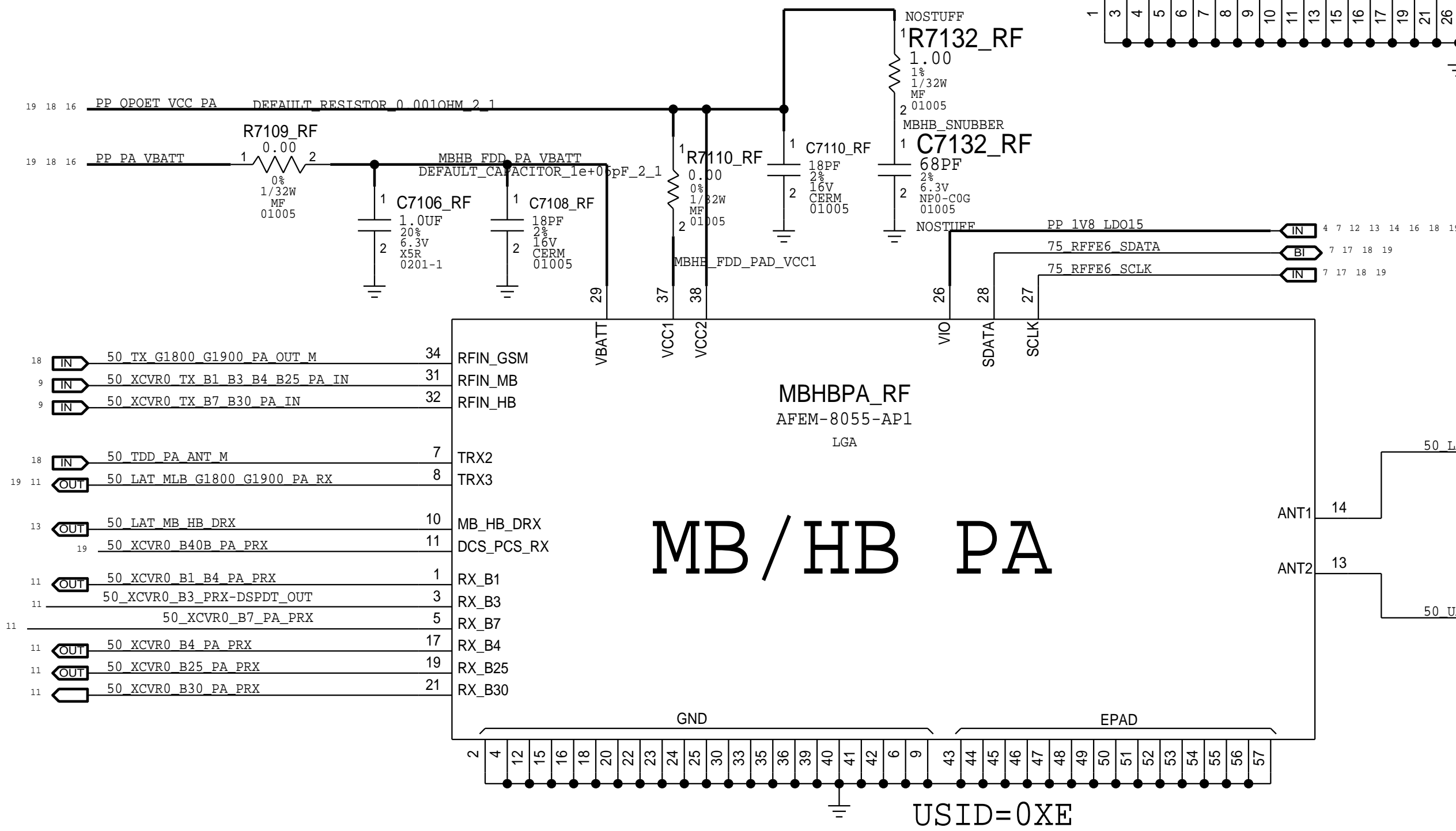
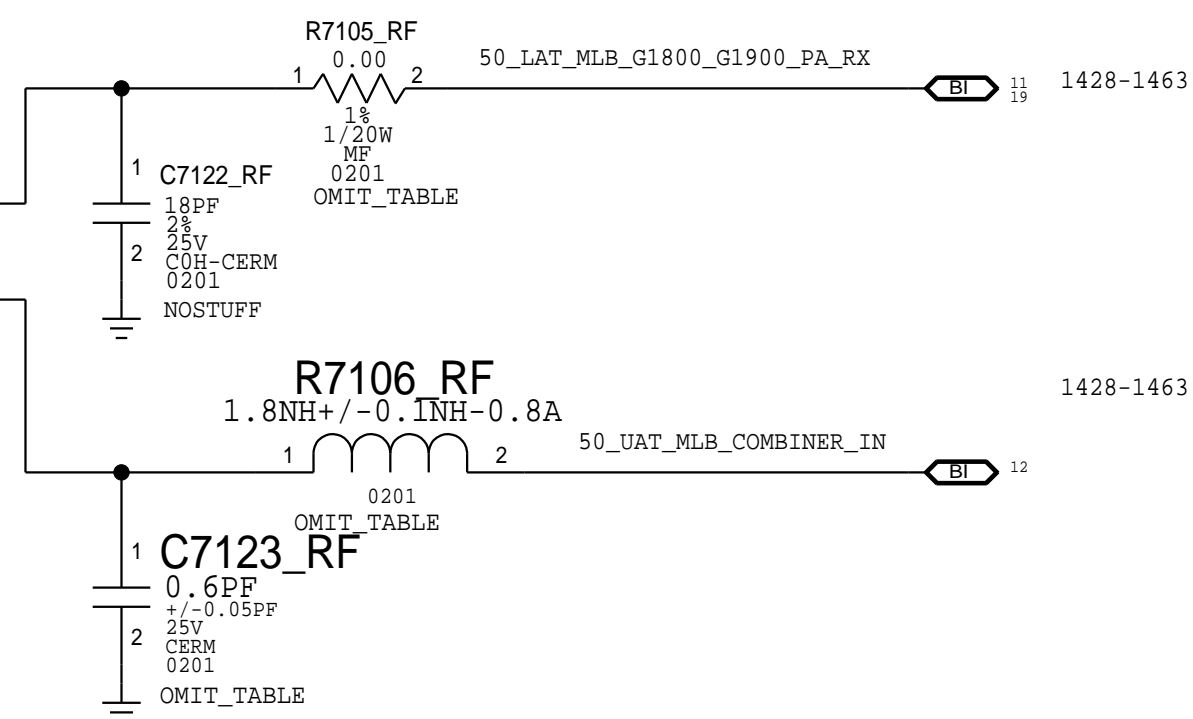
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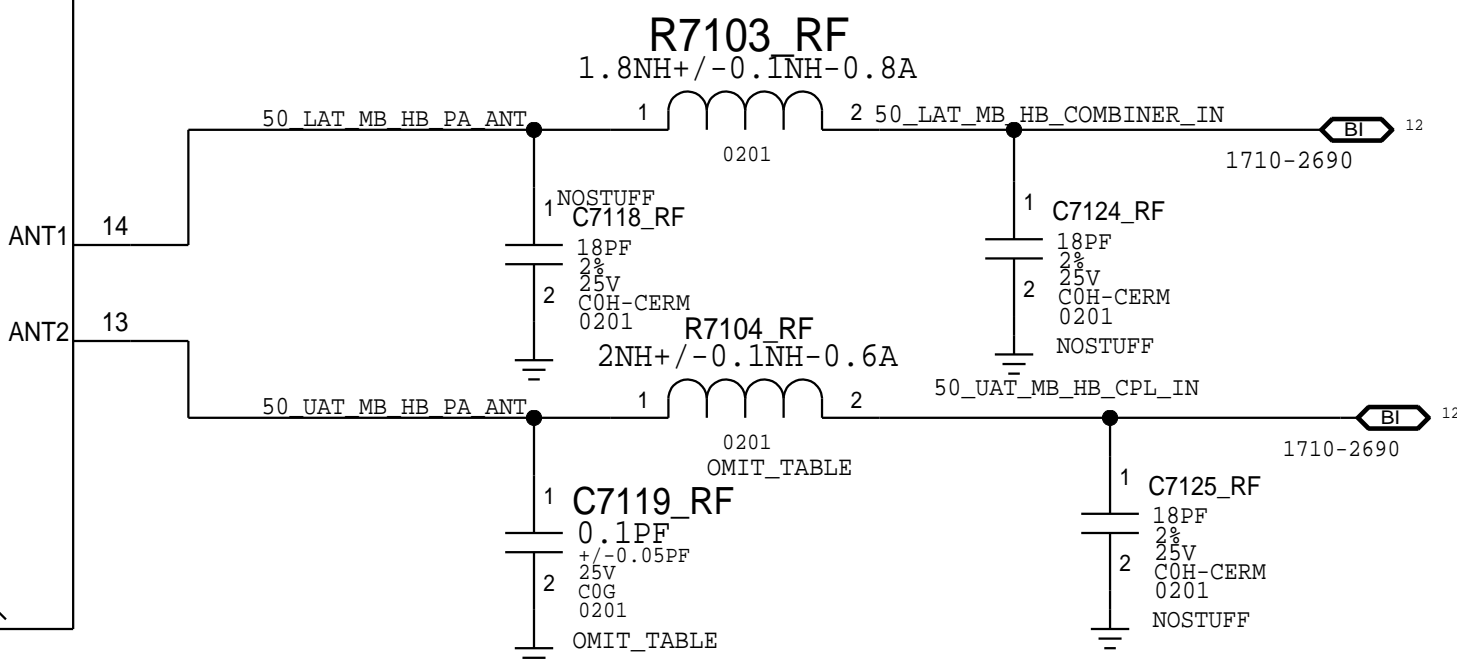
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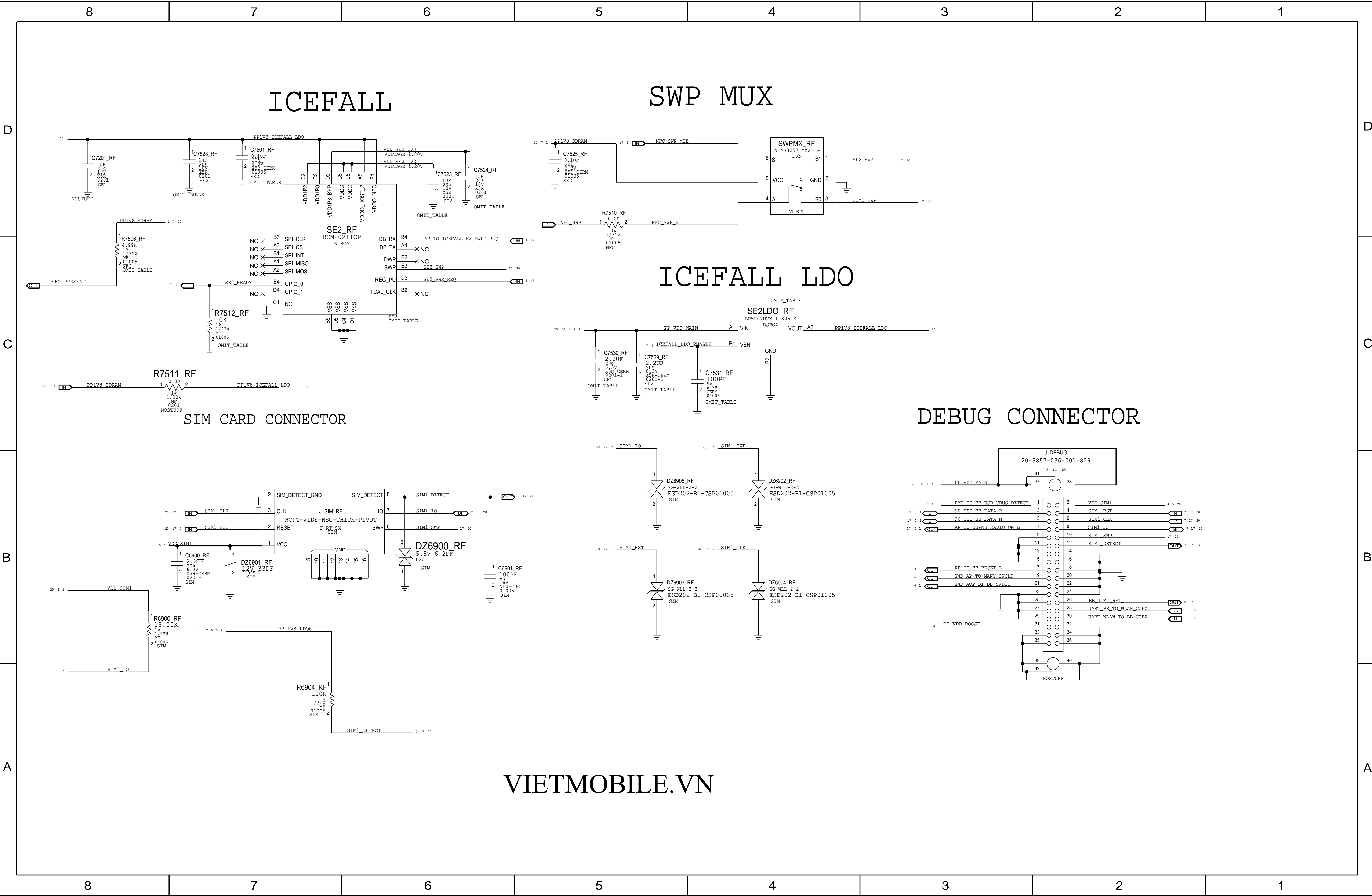
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ICEFALL

SWP MUX

ICEFALL LDO

DEBUG CONNECTOR