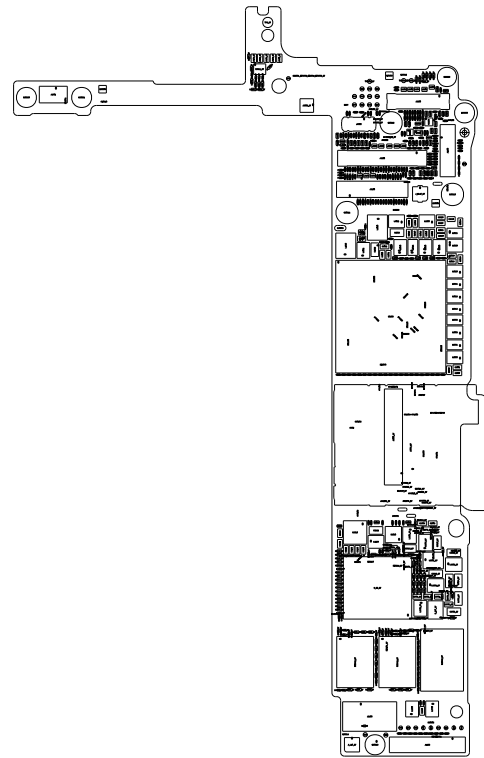
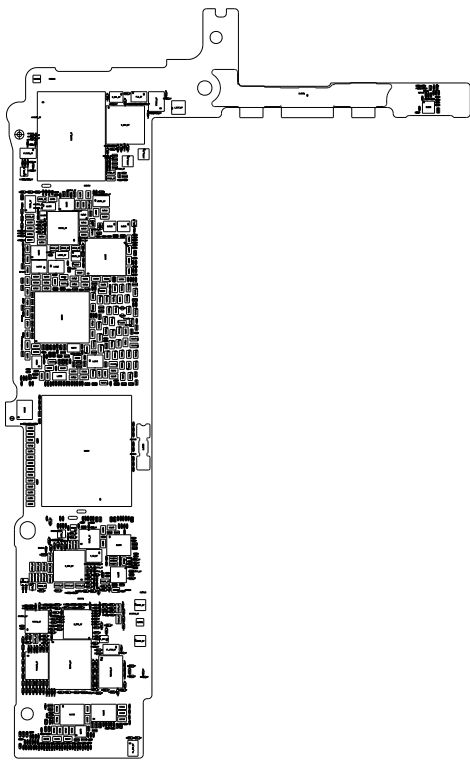


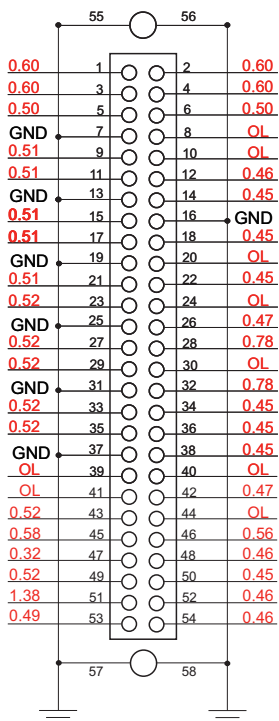
VIETMOBILE.VN

iPhone 6S Plus PCB Layout



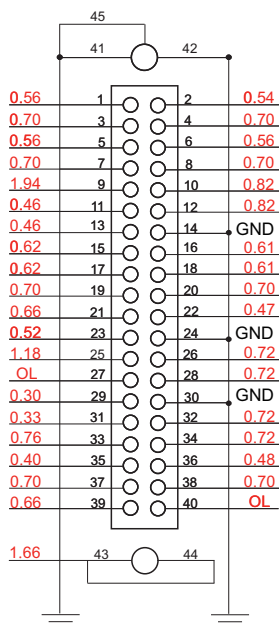
iPhone 6S Plus

J4200



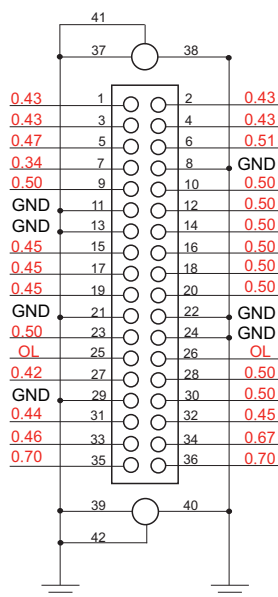
显示触摸集成

J4600



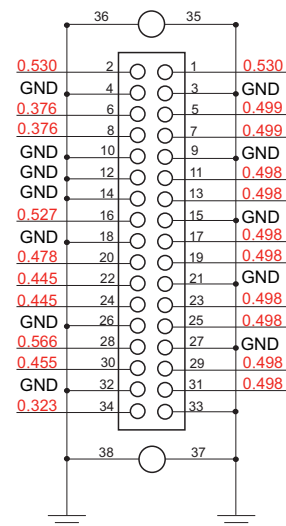
尾插

J3100



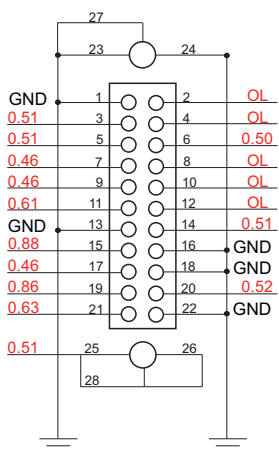
前置相机
听筒/MIC3
PROX/ALS

J3200



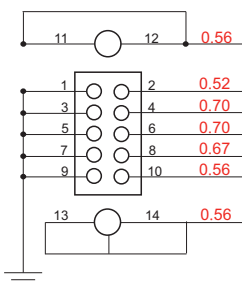
后置相机

J4100



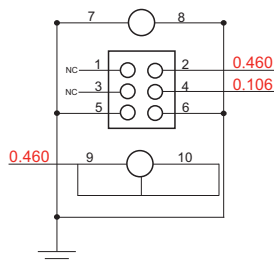
指纹/菜单

J4700



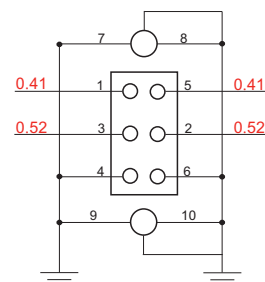
LED/MIC2
HOLD_KEY

J4701



RINGER
VOL_UP
VOL_DOWN

J2400



BATT



1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ECN	DESCRIPTION OF REVISION	CK APPD	DATE
4	0003980769	ENGINEERING RELEASED		2015-03-27

N66 MLB - DVT_AD

LAST_MODIFICATION=Sun NOV 18 18:50:11 2015

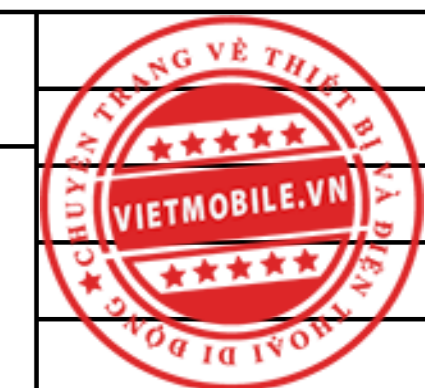
PAGE	<CSA>	CONTENTS	SYNC	DATE
1	1	TABLE OF CONTENTS		
2	3	SYSTEM:BOM TABLES		
3	4	SYSTEM:N66 SPECIFIC		
4	5	SYSTEM: MECHANICAL COMPONENTS		
5	6	SOC:JTAG,USB,XTAL		
6	7	SOC:PCIE		
7	8	SOC:CAMERA & DISPLAY		
8	9	SOC:SERIAL & GPIO		
9	10	SOC:OWL		
10	11	SOC:POWER (1/3)		
11	12	SOC:POWER (2/3)		
12	13	SOC:POWER (3/3)		
13	15	NAND		
14	20	SYSTEM POWER:PMU (1/3)		
15	21	SYSTEM POWER:PMU (2/3)		
16	22	SYSTEM POWER:PMU (3/3)		
17	23	SYSTEM POWER:CHARGER		
18	24	SYSTEM POWER:BATTERY CONN		
19	30	SENSORS:MOTION SENSORS		
20	31	CAMERA:FRONT CAMERA B2B		
21	32	CAMERA:REAR CAMERA B2B		
22	33	CAMERA:STROBE DRIVER		
23	34	CAMERA: SPHERE DRIVER		
24	35	AUDIO:CALTRA CODEC (1/2)		
25	36	AUDIO:CALTRA CODEC (2/2)		
26	37	AUDIO:SPEAKER DRIVER		
27	38	AUDIO:ARC DRIVER		
28	40	DISPLAY:POWER		
29	41	TOUCH:ORB & MESA B2B		
30	42	DISPLAY:LCM B2B		

PAGE	<CSA>	CONTENTS	SYNC	DATE
31	45	I/O:TRISTAR 2		
32	46	I/O:DOCK FLEX B2B		
33	47	I/O:BUTTON FLEX B2B		
34	49	BASEBAND:RADIO SYMBOL		
35		TABLE OF CONTENTS		
36		ELNA & UAT ANT FEED		
37		CELLULAR FRONT END: ANTENNA CONNECTORS AND FEEDS		
38		WLAN LAT 2.4GHZ BAW BPF		
39		DEBUG CONN & TEST POINTS		
40		CELLULAR BASEBAND: POWER1		
41		CELLULAR BASEBAND: POWER2		
42		CELLULAR BASEBAND: CONTROL AND INTERFACES		
43		CELLULAR BASEBAND: GPIOs		
44		CELLULAR PMU: CONTROL AND CLOCKS		
45		CELLULAR PMU: SWITCHERS AND LDOS		
46		CELLULAR PMU: ET MODULATOR		
47		CELLULAR TRANSCEIVER: POWER		
48		CELLULAR TRANSCEIVER: PRX PORTS		
49		CELLULAR TRANSCEIVER: DRX/GPS PORTS		
50		CELLULAR TRANSCEIVER: TX PORTS		
51		CELLULAR FRONT END: LB PAD		
52		CELLULAR FRONT END: MB PAD		
53		CELLULAR FRONT END: HB PAD		
54		CELLULAR FRONT END: 2G PA		
55		CELLULAR FRONT END: LB ASM		
56		CELLULAR FRONT END: MB-HB ASM		
57		CELLULAR FRONT END: DIVERSITY		
58		SIM		
59		WIFI/BT: WIFI/BT MODULE		
60		STOCKHOLM		

SCH 051-33994
 BRD 820-28040
 MCO 056-00472

BOM 639-00299 (BETTER)
 BOM 639-00301 (ULTRA)
 BOM 639-00302 (SUPREME)
 BOM 639-01063 (BETTER, RF2)
 BOM 639-01064 (ULTRA, RF2)
 BOM 639-01065 (SUPREME, RF2)
 BOM 639-01116 (BETTER, RFC)
 BOM 639-01117 (ULTRA, RFC)
 BOM 639-01118 (SUPREME, RFC)

BOM 639-01119 (BETTER, M)
 BOM 639-01122 (ULTRA, M)
 BOM 639-01125 (SUPREME, M)
 BOM 639-01120 (BETTER, RF2, M)
 BOM 639-01123 (ULTRA, RF2, M)
 BOM 639-01126 (SUPREME, RF2, M)
 BOM 639-01121 (BETTER, RFC, M)
 BOM 639-01124 (ULTRA, RFC, M)
 BOM 639-01127 (SUPREME, RFC, M)



Active Diode Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376800106	376800047	ALTERNATE	Q2300	DIODES INC. ACT DIODE

NAND BOM Options

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335800039	1	NAND_7,80,1Y,MLC,160x8,S3E,VLGA70	U1500	CRITICAL	NAND_16G
335800040	1	NAND_7,80,1Y,MLC,640x8,S3E,VLGA70	U1500	CRITICAL	NAND_64G
335800079	1	NAND_8,80,1Y,TLC,1280x8,S3E,VLGA70	U1500	CRITICAL	NAND_128G

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335800074	335800039	ALTERNATE	U1500	H, 80, 1Y, MLC, 160x8
335800075	335800040	ALTERNATE	U1500	H, 80, 1Y, MLC, 640x8
335800078	335800040	ALTERNATE	U1500	H, 80, 1Y, TLC, 640x8
335800082	335800040	ALTERNATE	U1500	T, 80, 1Z, TLC, 640x8
335800064	335800040	ALTERNATE	U1500	S, 80, 1Z, TLC, 640x8
335800083	335800079	ALTERNATE	U1500	T, 80, 1Z, TLC, 1280x8
335800065	335800079	ALTERNATE	U1500	S, 80, 1Z, TLC, 1280x8

Carbon BOM Options

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
33881163	1	DISCRETE ACCEL, BOSCH	U3030	CRITICAL	NOSTUFF
33881163	1	DISCRETE ACCEL, BOSCH	U3030	CRITICAL	CARBON_INVENSENSE
338800017	1	CARBON, INVENSENSE	U3010	CRITICAL	CARBON_INVENSENSE
13280395	1	C3013, 0.10UF, INVENSENSE OPTION	C3013	CRITICAL	CARBON_INVENSENSE
338800029	1	CARBON, ST	U3010	CRITICAL	CARBON_ST
13280391	1	C3013, 0.01UF, ST OPTION	C3013	CRITICAL	CARBON_ST
338800087	1	CARBON, INVENSENSE MPU-6800	U3010	CRITICAL	CARBON_INVENSENSE_6800
13280395	1	C3013, 0.10UF, INVENSENSE OPTION	C3013	CRITICAL	CARBON_INVENSENSE_6800

Power Inductor Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152800117	152800074	ALTERNATE	\$?	IND.PWR.INDC.1.1 70.1 50.0 0.05 098.2010
152800118	152800075	ALTERNATE	\$?	IND.PWR.INDC.1.2 70.1 50.0 0.05 098.2010
152800120	152800077	ALTERNATE	\$?	IND.PWR.INDC.1.3 70.1 50.0 0.150 098.2010
152800121	152800081	ALTERNATE	\$?	IND.PWR.INDC.1.4 70.1 50.0 0.150 098.2010
152800123	15281936	ALTERNATE	\$?	IND.PWR.INDC.1.5 70.1 50.0 0.150 098.2010
15282052	15281929	ALTERNATE	\$?	IND.PWR.INDC.1.6 70.1 50.0 0.150 098.2010

SIM Callouts

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
512800013	1	SIM, Integrated Eject, N66	J3001_RF	CRITICAL	COMMON

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
512800015	512800013	ALTERNATE	J3001_RF	SIM, INTEGRATED EJECT, N71

NOTE: Revisit for Carrier

Shield Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
613-01503	806-02349	ALTERNATE	SH0500	Upper Front shield
613-01504	806-02350	ALTERNATE	SH0501	Lower Front shield
806-02655	806-02352	ALTERNATE	SH0503	Upper Back shield
806-03410	806-02352	ALTERNATE	SH0503	Upper Back shield
806-02656	806-02353	ALTERNATE	SH0504	Lower Back shield
806-03411	806-02353	ALTERNATE	SH0504	Lower Back shield

NOTE: Revisit for Carrier

Schematic & PCB Callouts

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-00094	1	SCH,SINGLE_BRD,N66	SCH	CRITICAL	?
820-00040	1	PCBF,SINGLE_BRD,N66	PCB	CRITICAL	?
825-6838	1	EEEE CODE FOR 639-00299	EEEE_G360	CRITICAL	EEEE_BETTER
825-6838	1	EEEE CODE FOR 639-00301	EEEE_G35W	CRITICAL	EEEE_ULTRA
825-6838	1	EEEE CODE FOR 639-00302	EEEE_G35V	CRITICAL	EEEE_SUPREME
825-6838	1	EEEE CODE FOR 639-01063	EEEE_GKXY	CRITICAL	EEEE_BETTER_RF2
825-6838	1	EEEE CODE FOR 639-01064	EEEE_GKL0	CRITICAL	EEEE_ULTRA_RF2
825-6838	1	EEEE CODE FOR 639-01065	EEEE_GKL1	CRITICAL	EEEE_SUPREME_RF2
825-6838	1	EEEE CODE FOR 639-01116	EEEE_GLL7	CRITICAL	EEEE_BETTER_RFC
825-6838	1	EEEE CODE FOR 639-01117	EEEE_GLL4	CRITICAL	EEEE_ULTRA_RFC
825-6838	1	EEEE CODE FOR 639-01118	EEEE_GLL1	CRITICAL	EEEE_SUPREME_RFC
825-6838	1	EEEE CODE FOR 639-01119	EEEE_GLL2	CRITICAL	EEEE_BETTER_M
825-6838	1	EEEE CODE FOR 639-01122	EEEE_GLL3	CRITICAL	EEEE_ULTRA_M
825-6838	1	EEEE CODE FOR 639-01125	EEEE_GLL6	CRITICAL	EEEE_SUPREME_M
825-6838	1	EEEE CODE FOR 639-01120	EEEE_GLL8	CRITICAL	EEEE_BETTER_RF2_M
825-6838	1	EEEE CODE FOR 639-01123	EEEE_GLL0	CRITICAL	EEEE_ULTRA_RF2_M
825-6838	1	EEEE CODE FOR 639-01126	EEEE_GLLC	CRITICAL	EEEE_SUPREME_RF2_M
825-6838	1	EEEE CODE FOR 639-01121	EEEE_GLKY	CRITICAL	EEEE_BETTER_RFC_M
825-6838	1	EEEE CODE FOR 639-01124	EEEE_GLL5	CRITICAL	EEEE_ULTRA_RFC_M
825-6838	1	EEEE CODE FOR 639-01127	EEEE_GLL9	CRITICAL	EEEE_SUPREME_RFC_M

PMU/SOC BOM Options

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
998-01699	1	IC,PMU,APR7020A,A0,A2,2000NM,2100N,C0P380	U2000	POR
11880631	1	RES,MP,100 OHM,14,1/32W,01005	R0730	POR
13180307	1	CAP,CER,NPO/COG,100PF,5A,16V,01005	C0730	POR
339800057	1	DEV FUSED, M DRAM	U0600	POR

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
998-02438	1	IC,PMU,APR7020A,A0,A2,2000NM,2100N,C0P380	U2000	M
118800009	1	RES,MP,3.01KOHM,14,1/32W,01005	R0730	M
13180307	1	CAP,CER,NPO/COG,100PF,5A,16V,01005	C0730	NOSTUFF
339800067	1	M DEV FUSED, M DRAM	U0600	M

Maui AP Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339800058	339800057	ALTERNATE	U0600	DEV FUSED, M DRAM
339800059	339800057	ALTERNATE	U0600	DEV FUSED, S DRAM
339800068	339800067	ALTERNATE	U0600	M DEV FUSED, M DRAM

Low Noise Caps

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
13880867	3	CAP,X5R,100P,20V,6,3V,0.40MM,8027L,0402	C2085, C2086, C2087	CAPS_NORMAL
998-01223	3	CAP,X5R,100P,20V,6,3V,0.40MM,9402,10700000	C2085, C2086, C2087	CAPS_LOW_NOISE

SEP EEPROM Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335800066	33580946	ALTERNATE	U0900	IC,EEPROM,1024B,1,3V,1.50,4000,000000

Global Capacitor Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
11880764	11880717	ALTERNATE	?	RES, 3.92K, 0.1%, 0201
13880702	13880657	ALTERNATE	?	CAP, X5R, 4.7UF, 4V, 0610
138800006	13880835	ALTERNATE	?	CAP, S-TERRM, 4.7UF, 4V, 0402
138800005	138800003	ALTERNATE	?	CAP,X5R,100P,6,3V,0.40MM,0402,TALTO
138800048	138800003	ALTERNATE	?	CAP,X5R,100P,6,3V,0.40MM,0402,TALTO
13880648	13880652	ALTERNATE	?	CAP,X5R,4.7UF,4,3V,0.40MM,0402,TALTO
13280400	13280436	ALTERNATE	?	CAP,X5R,0.220UF,6,3V,01005,T06
138800032	13880831	ALTERNATE	?	CAP,X5R,2.2UF,6,3V,0201,TALTO
138800049	13880831	ALTERNATE	?	CAP,X5R,2.2UF,6,3V,0201,KYOCERA
138800024	13880986	ALTERNATE	?	CAP,X5R,100P,10V,10V,001,0001,001
13880706	13880739	ALTERNATE	?	CAP,X5R,10P,10V,10V,001,0001,0001
13880945	13880739	ALTERNATE	?	CAP,X5R,10P,10V,10V,001,0001,0001

Global Ferrite Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
15282052	15281929	ALTERNATE	?	IND, 1UH, 1.2A, 0603
15580773	15580453	ALTERNATE	?	FERR, 1200NM, 0.800M DCR, 01005
15580653	15580511	ALTERNATE	?	FERR, 330NM, 0.050M DCR, 0201
155800067	15580581	ALTERNATE	?	FERR, 2400NM, 0.350M DCR, 0201
155800012	155800009	ALTERNATE	?	FLTR, 65 OHMS, 0605
15580960	15580941	ALTERNATE	?	FERR, 70 OHMS, 01005

Global Varistor Alternates

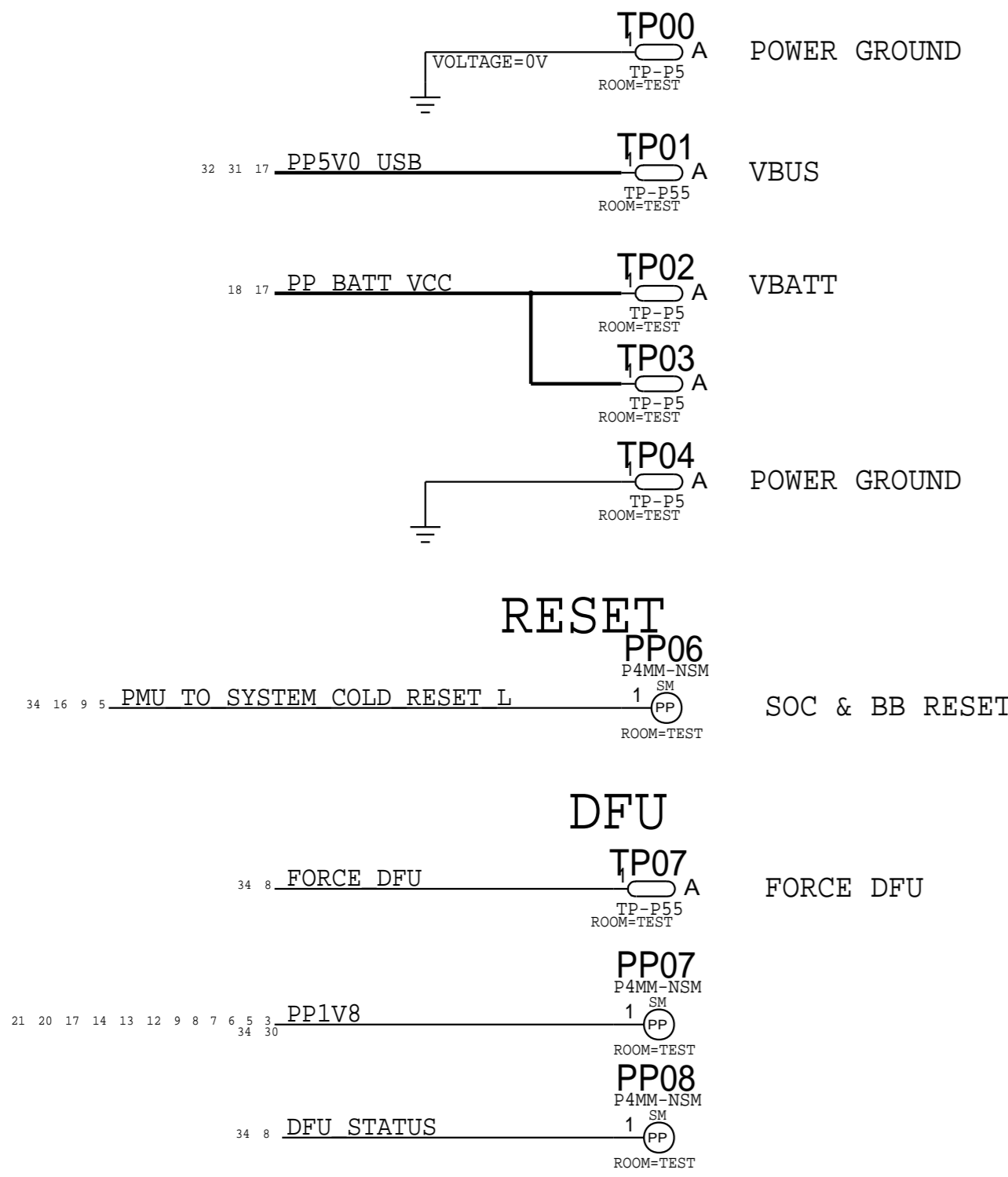
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
37780168	37780140	ALTERNATE	?	VARISTOR, 6KV, 150PF, 01005

DDR PLL Alternate

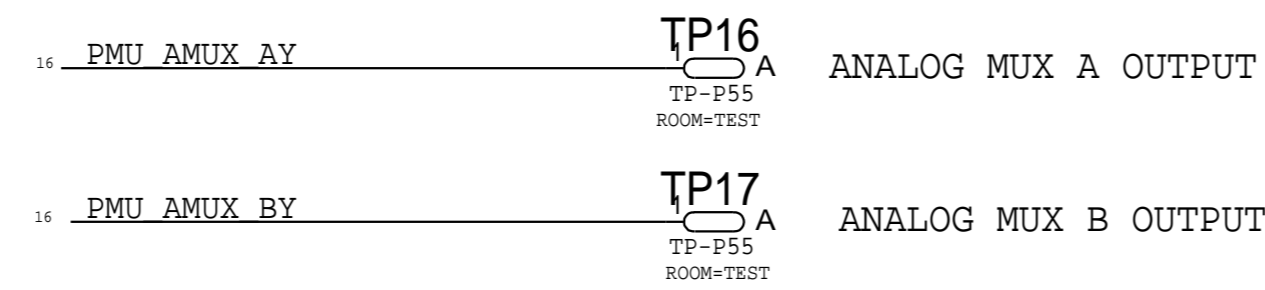
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155800095	155800068	ALTERNATE	FL1280	FERR, 0.1000M, 0.1000M, 0001, 01005

TESTPOINTS

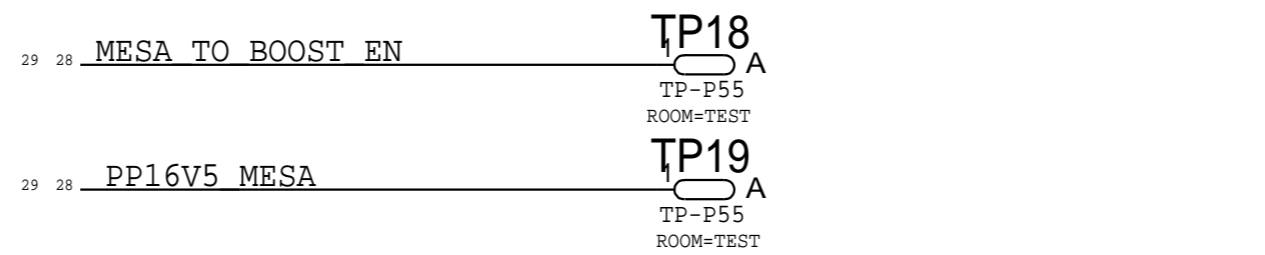
POWER



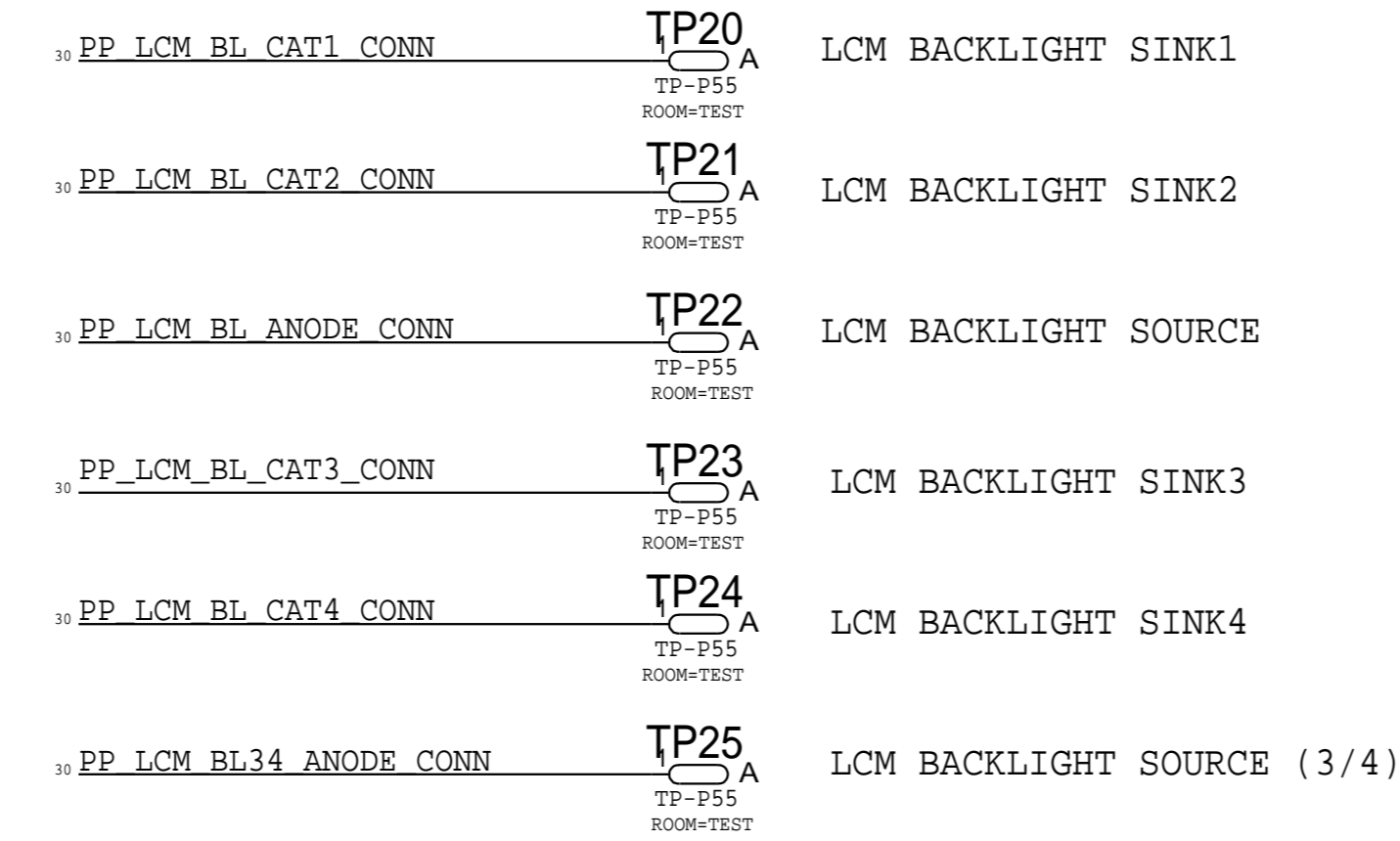
AMUX



MOJAVE



LCM



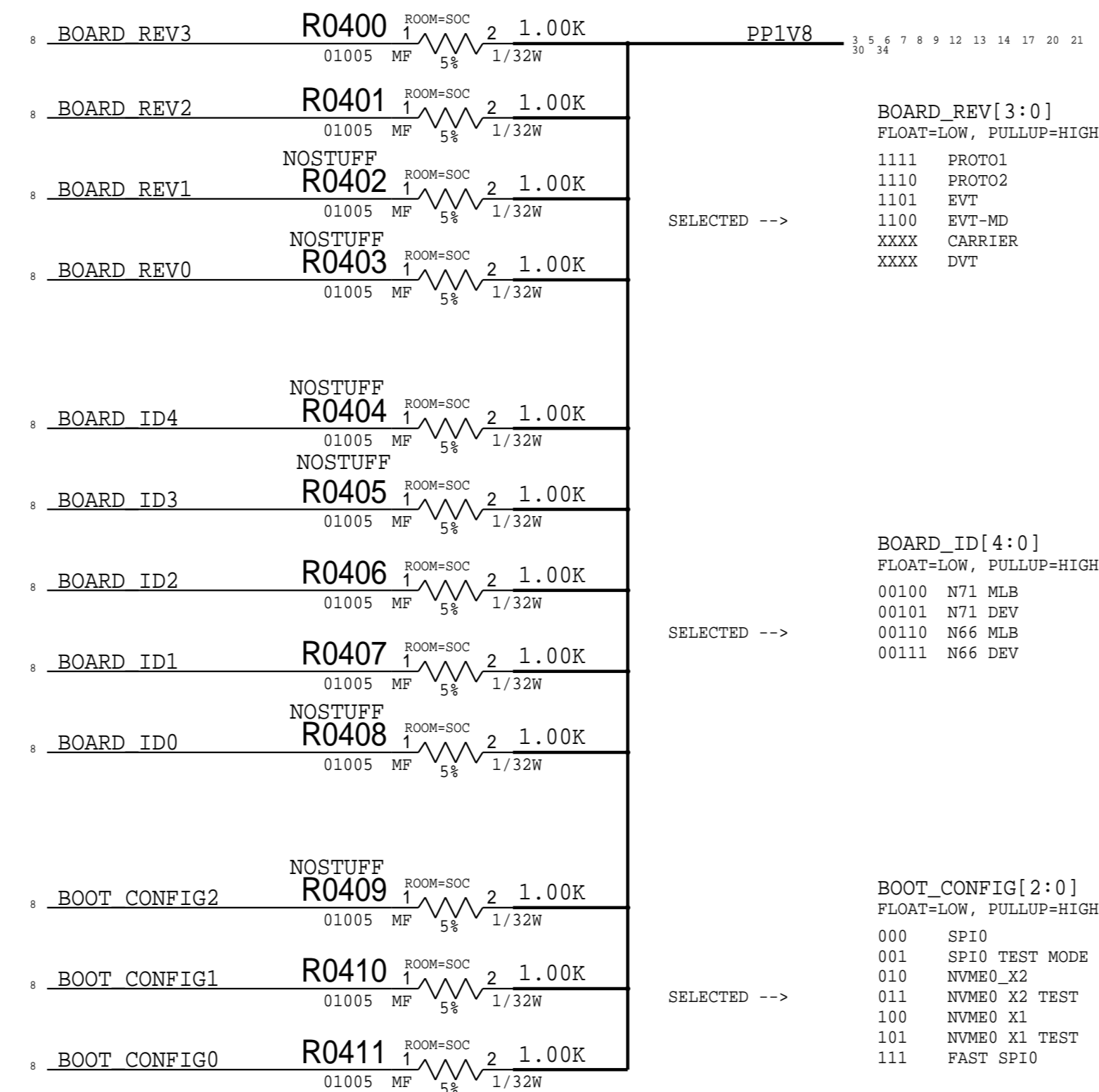
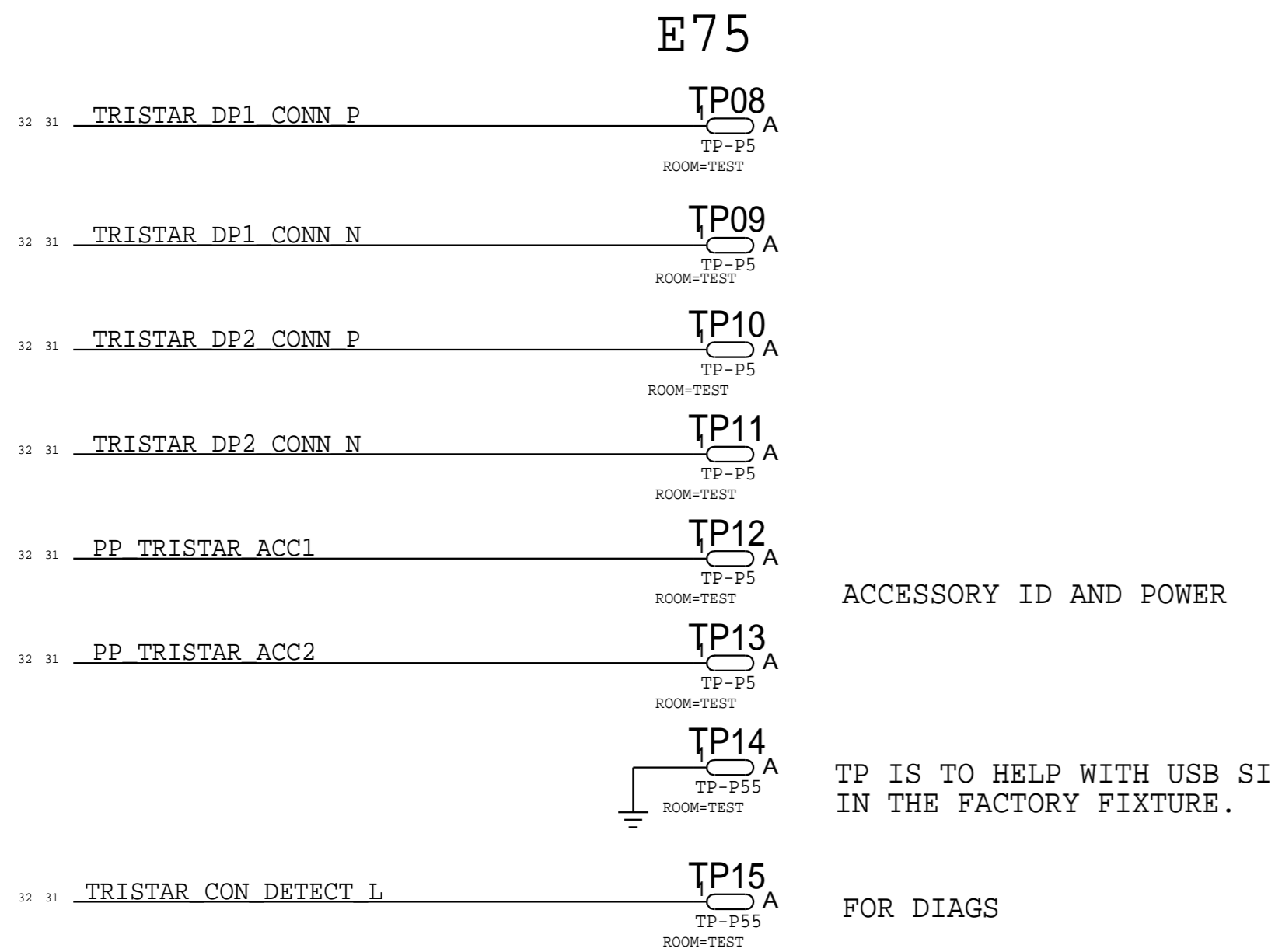
UAT GND Ring Opening



N66 I2C DEVICE MAP

I2C BUS	DEVICE	BINARY	7-BIT HEX	8-BIT HEX
I2C0	ANTIGUA PMU	1110100X	0X74	0XE8
	CHESTNUT	0100111X	0X27	0X4E
	BACKLIGHT 1	1100011X	0X62	0XC4
I2C1	TIGRIS	1110101X	0X75	0XE9
	ARC DRIVER	1000001X	0X41	0X82
	SPEAKER AMP	1000000X	0X40	0X80
	TRISTAR	0011010X	0X1A	0X34
I2C2	ALS	0101001X	0X29	0X52
	DISP EEPROM	1010001X	0X51	0XA2
	BACKLIGHT 2	1100011X	0X62	0XC4
OWL	UNUSED	N/A	N/A	N/A
ISP I2C0	REAR CAM	TBD	TBD	TBD
	LED DRIVER	1100011X	0X63	0XC6
ISP I2C1	FRONT CAM	0010000X	0X10	0X20
TOUCH I2C	MESON	1000000X	0x40	0x80
	MAMBA	1100000X	0x60	0xc0
	DOPPLER	1011000X	0x58	0xb0
SEP I2C	SEP EEPROM	1010001X	0x51	0xA2

BOOTSTRAPPING: BOARD REV BOARD ID BOOT CONFIG



```

BOARD_REV[3:0]
FLOAT=LOW, PULLUP=HIGH
1111  PROT01
1110  PROT02
1101  EVT
1100  EVT-MD
XXXX  CARRIER
XXXX  DVT

BOARD_ID[4:0]
FLOAT=LOW, PULLUP=HIGH
00100  N71 MLB
00101  N71 DEV
00110  N66 MLB
00111  N66 DEV

BOOT_CONFIG[2:0]
FLOAT=LOW, PULLUP=HIGH
000  SPI0
001  SPI0 TEST MODE
010  NVME0_X2
011  NVME0_X2 TEST
100  NVME0_X1
101  NVME0_X1 TEST
111  FAST SPI0
    
```


8

7

6

5

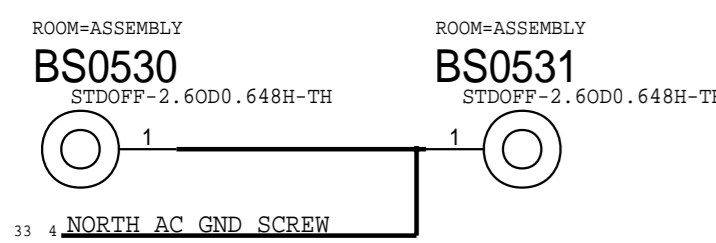
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3

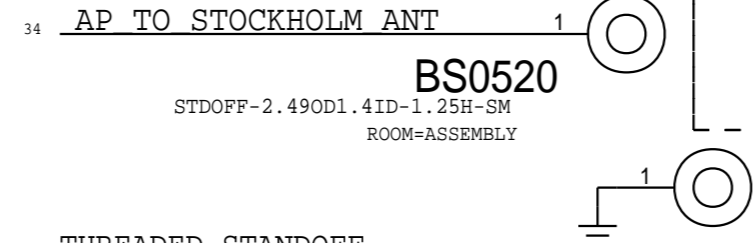
2

1

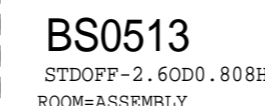
TUBE STANDOFF
860-00177



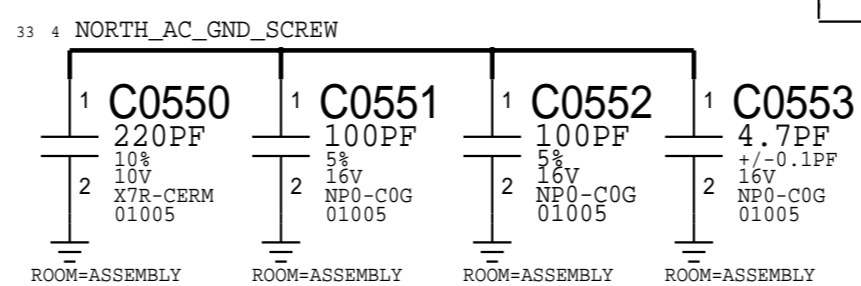
TUBE STANDOFF: STOCKHOLM FEED
860-5189



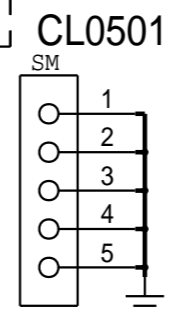
TUBE STANDOFF
860-00176



MLB NORTH PENINSULA AC CHASSIS SHORT
(BLOCKS DC CURRENT THROUGH COMPASS REGION)



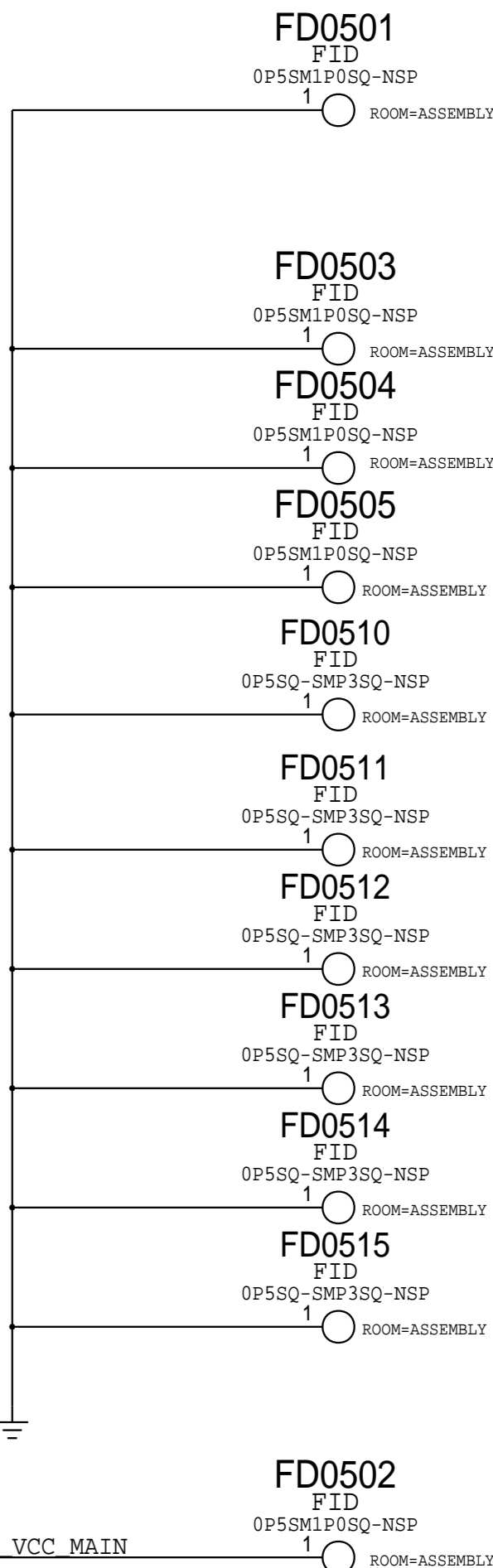
TUDO: TUNE AC CAPS FOR ANTENNA RF GND



COAX CLIP BRACE
806-02354

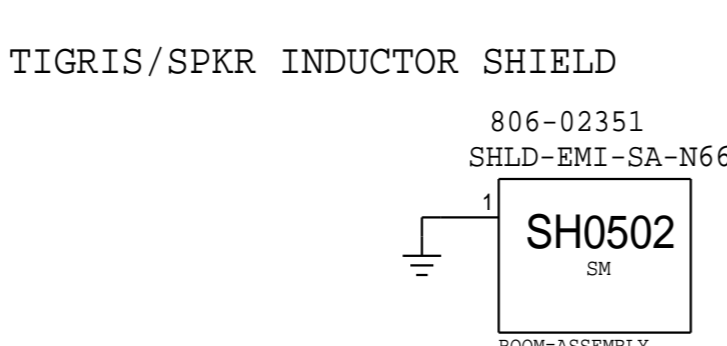
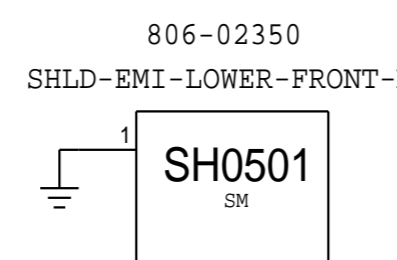
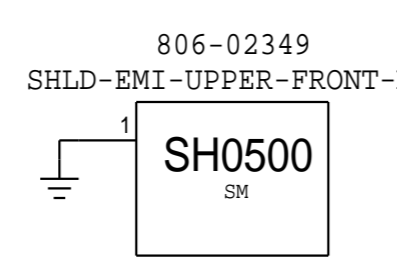
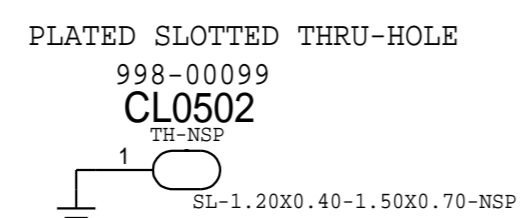
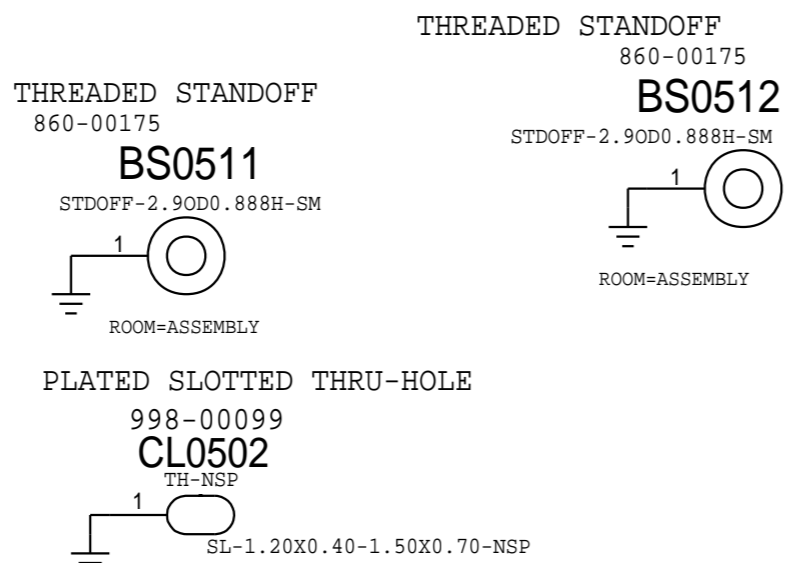
CLIP-BRACE-COAX-N66

FIDUCIALS

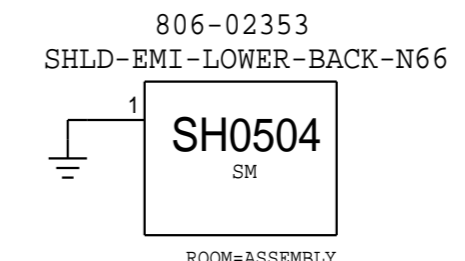
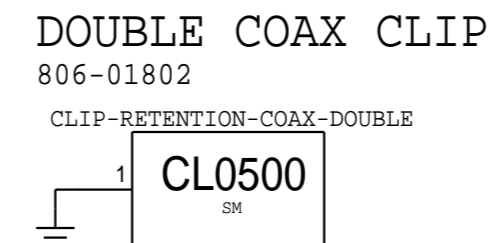
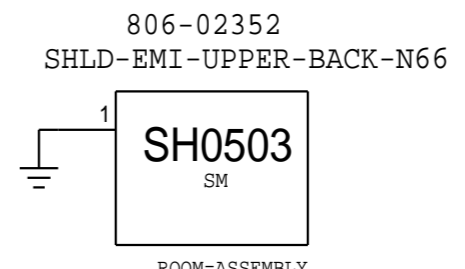
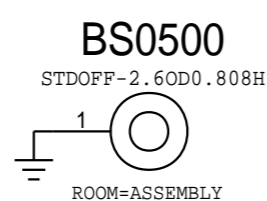


TOP SIDE

BOTTOM SIDE



SOUTH TUBE STANDOFF
860-00176



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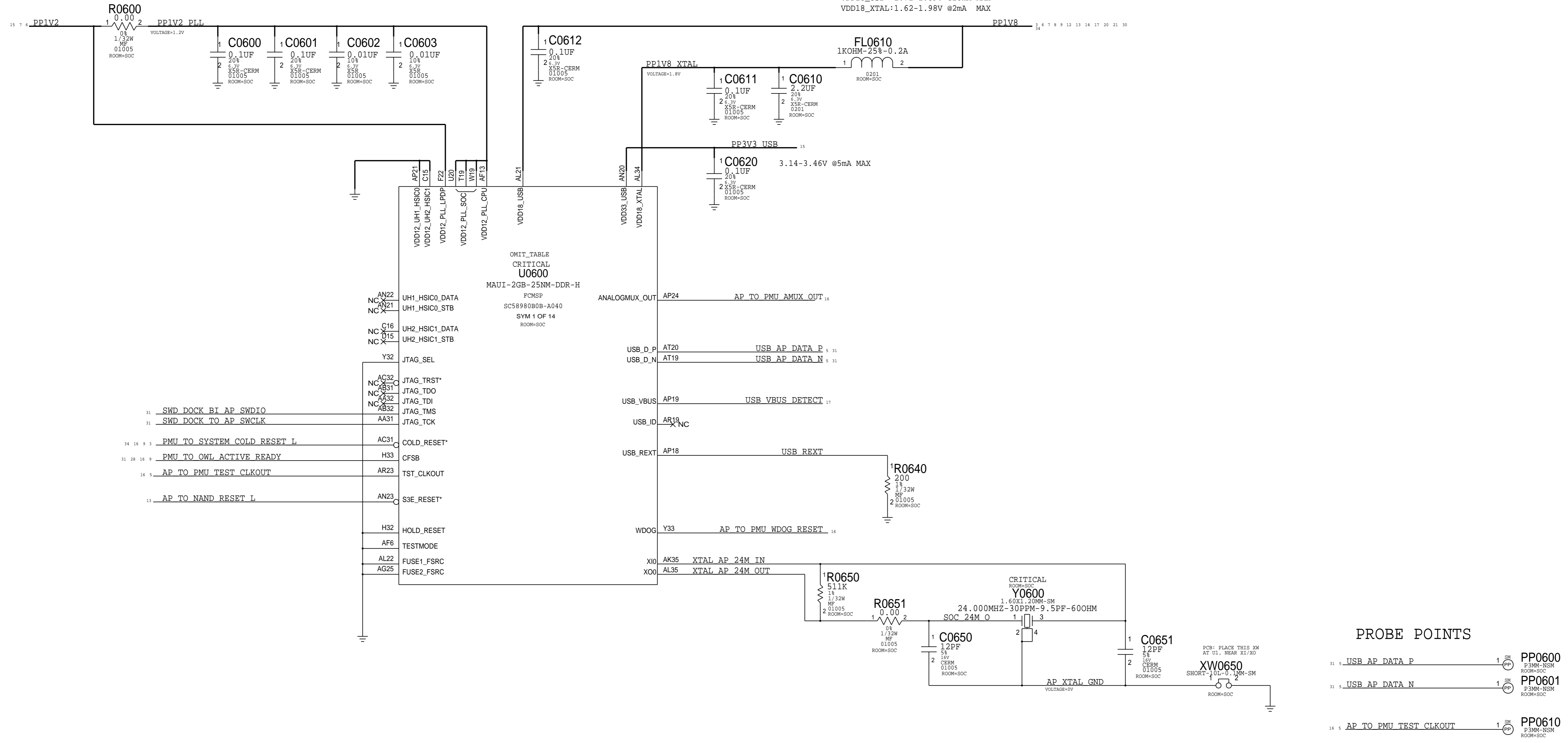
B

A

MAUI - USB, JTAG, XTAL

VDD12_PLL_LFDP: 1.14-1.26V @2mA MAX
 VDD12_PLL_SOC: 1.14-1.26V @12mA MAX
 VDD12_PLL_CPU: 1.14-1.26V @2mA MAX

VDD18_USB: 1.71-1.89V @20mA MAX
 VDD18_XTAL: 1.62-1.98V @2mA MAX



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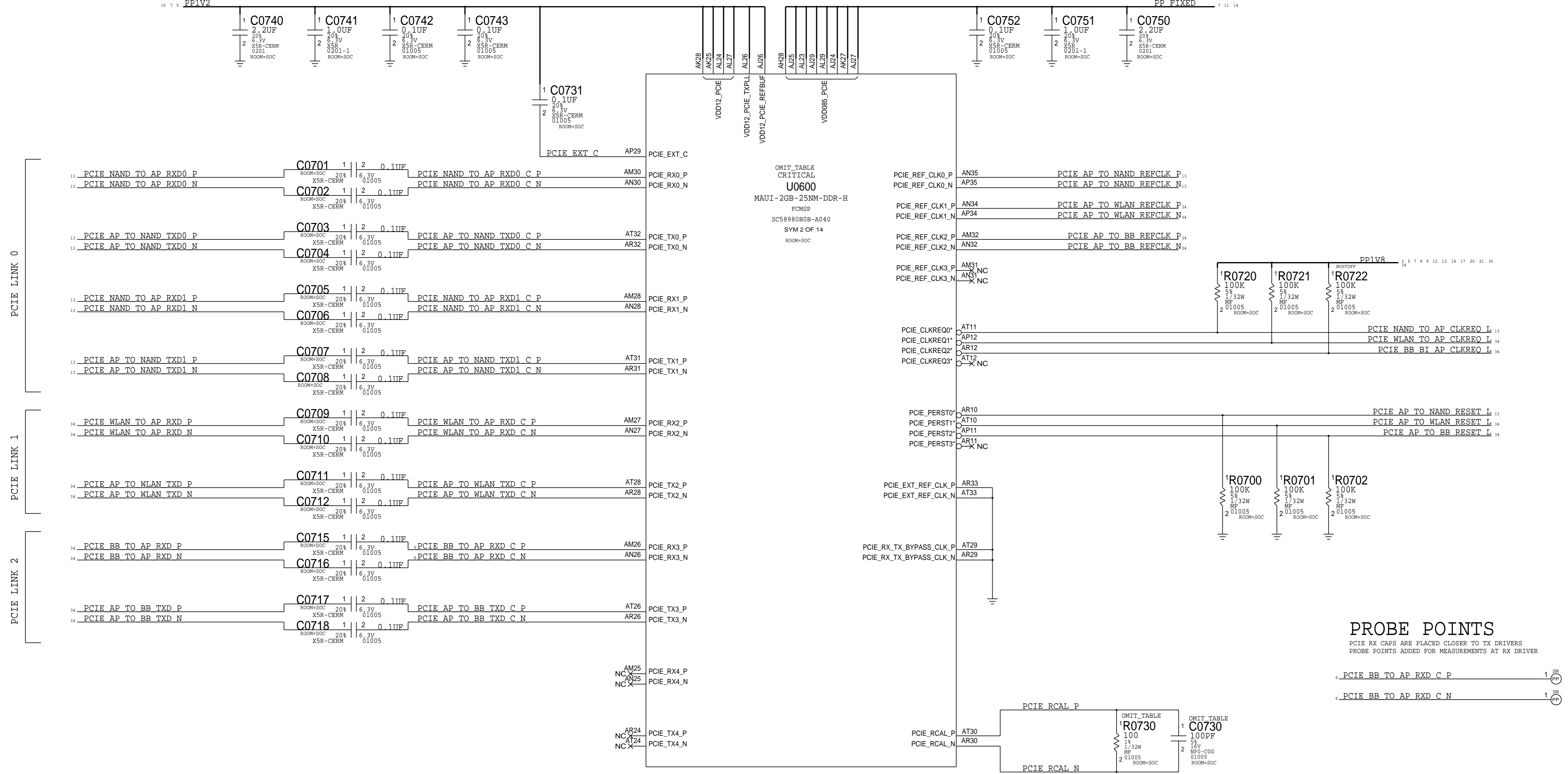
2

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MAUI - PCIE INTERFACES

VDD12_PCIE_REFBUF: 1.08-1.26V @50mA MAX
 VDD12_PCIE_TXPLL: 1.08-1.32V @10mA MAX
 VDD12_PCIEB: 1.14-1.26V @115mA MAX
 PPIV2

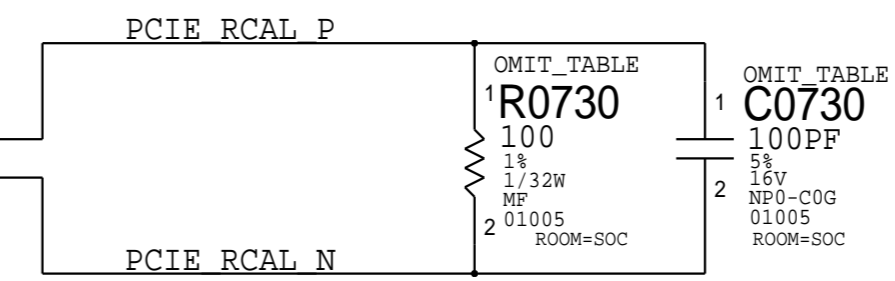
VDD085_PCIE: 0.802-TBDV @TBDmA MAX
 PP_FIXED



PROBE POINTS

PCIE RX CAPS ARE PLACED CLOSER TO TX DRIVERS
 PROBE POINTS ADDED FOR MEASUREMENTS AT RX DRIVER

- PCIE BB TO AP RXD C P 1 SM PP0706
- PCIE BB TO AP RXD C N 1 SM PP0707



MAUI - CAMERA & DISPLAY INTERFACES

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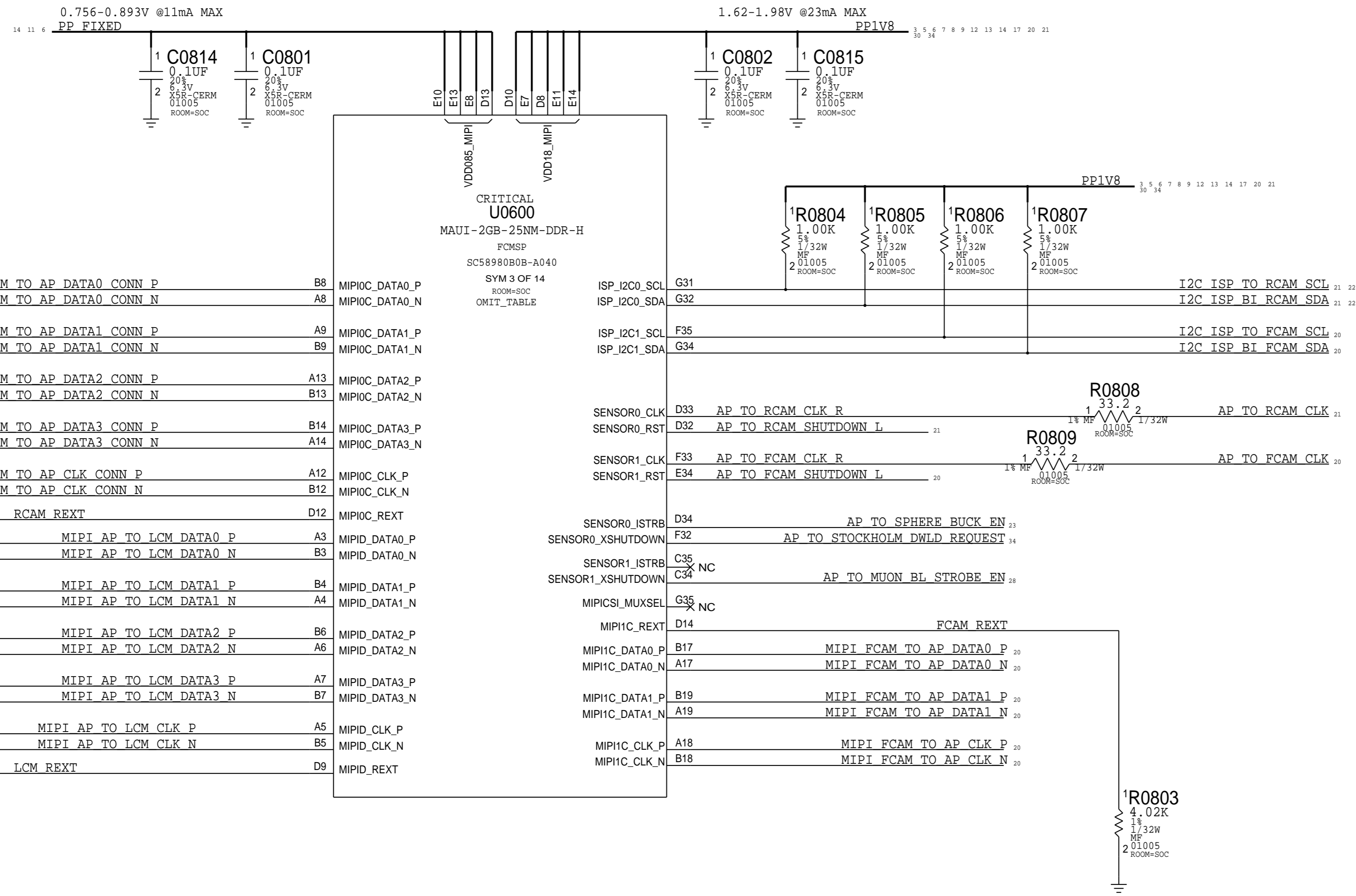
5

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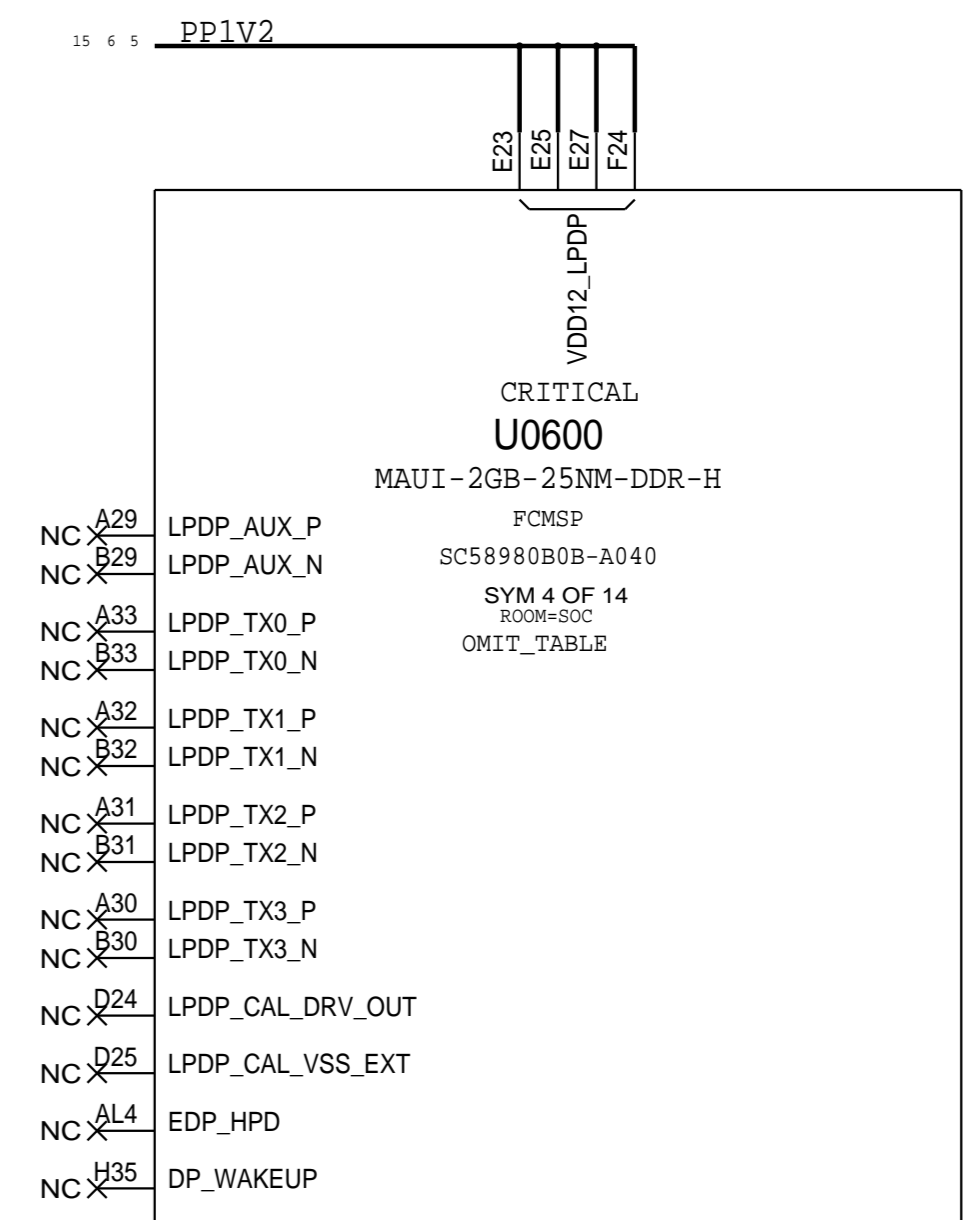
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NOTE:VDD12_LPDP SHOULD BE POWERED
EVEN WHEN LPDP IS NOT USED



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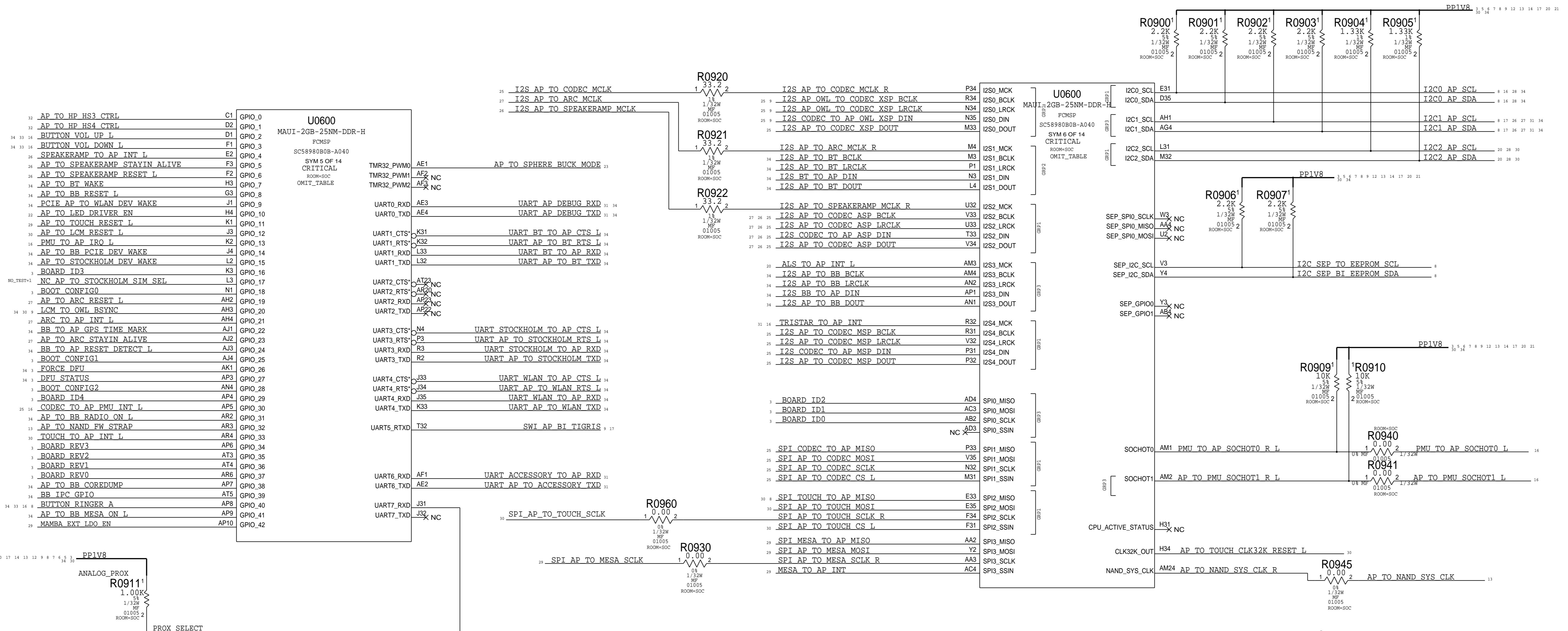
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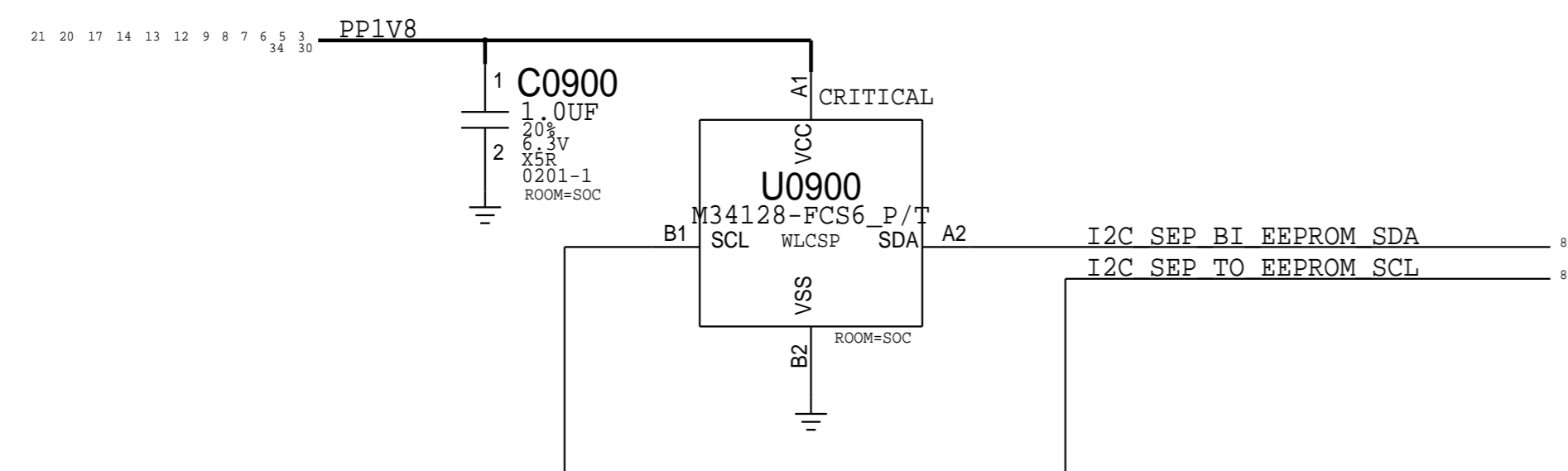
1

MAUI - GPIO & SERIAL INTERFACES

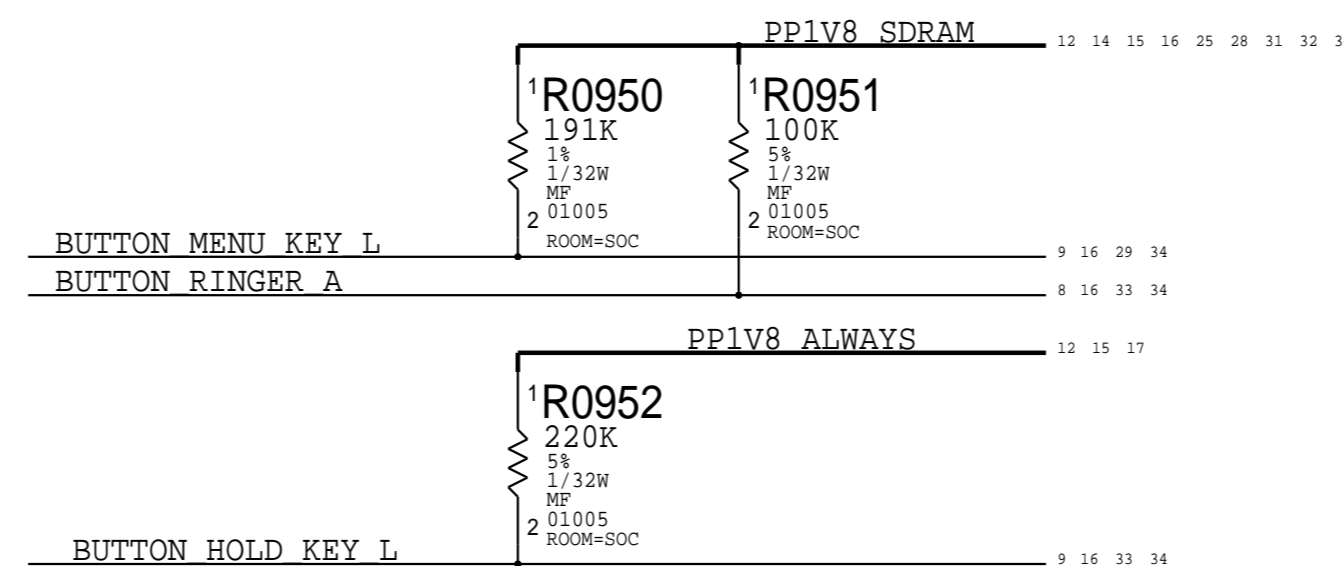


PIN J31 (UART7_RXD) SHOULD BE SET TO INTERNAL PULL-DOWN.
STUFF R0911 FOR ANALOG PROX.
NOSTUFF R0911 FOR DOPPLER PROX.

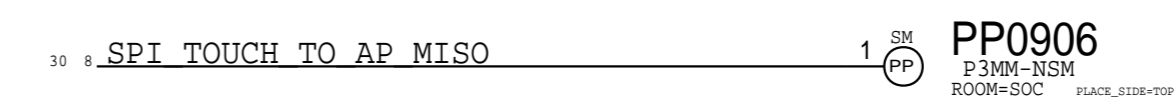
ANTI-ROLLBACK EEPROM
128kbit
APN: 335S0946



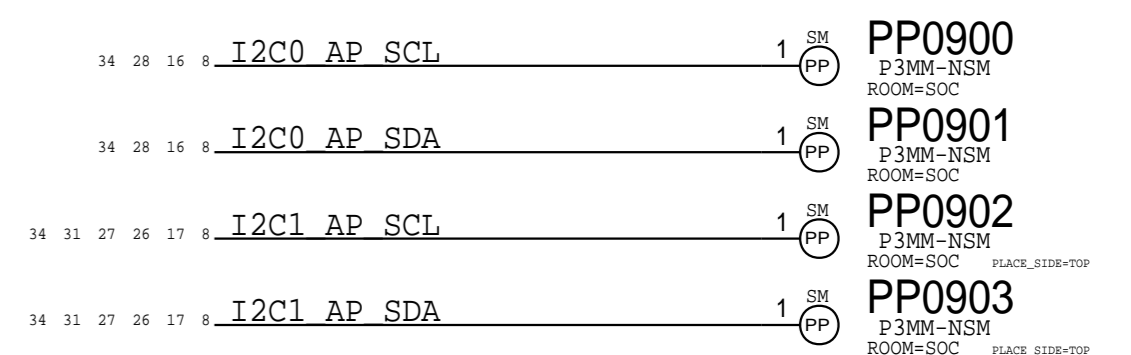
BUTTON PULL-UP RESISTORS



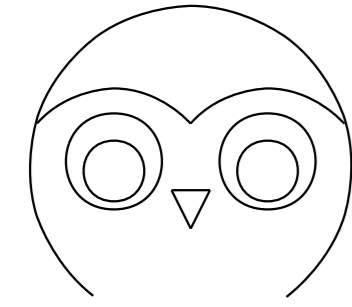
SPI PROBE POINTS



I2C PROBE POINTS

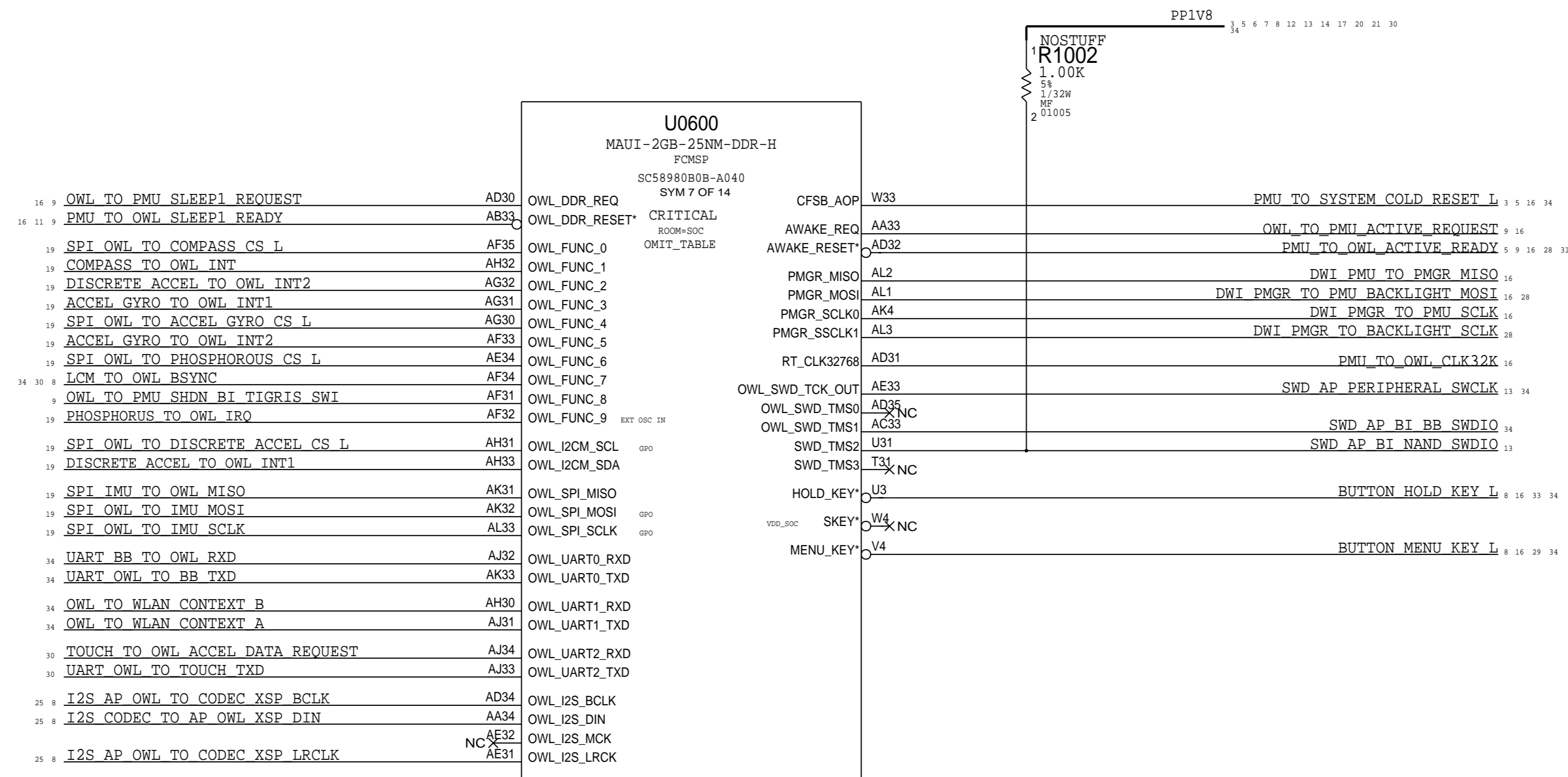


MAUI - OWL

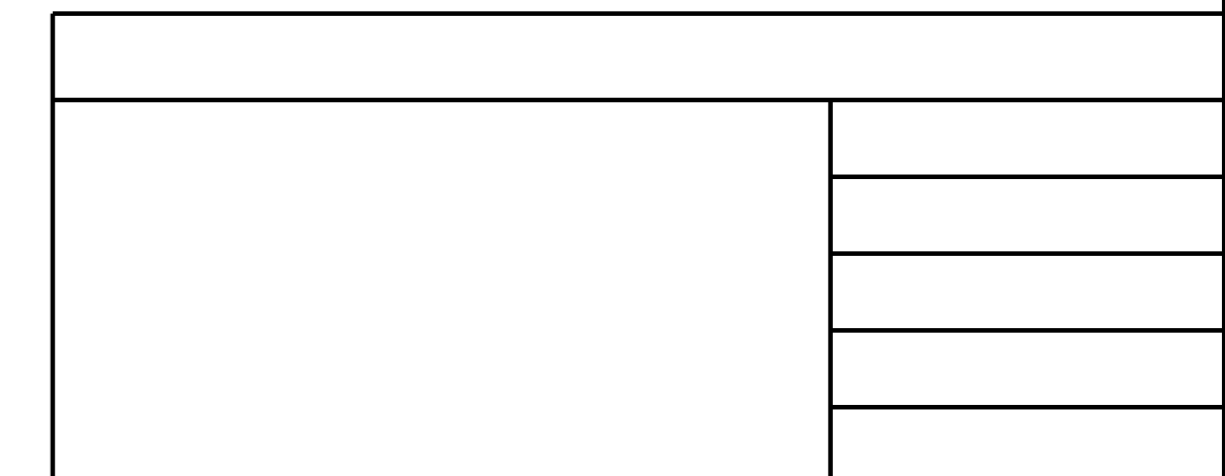
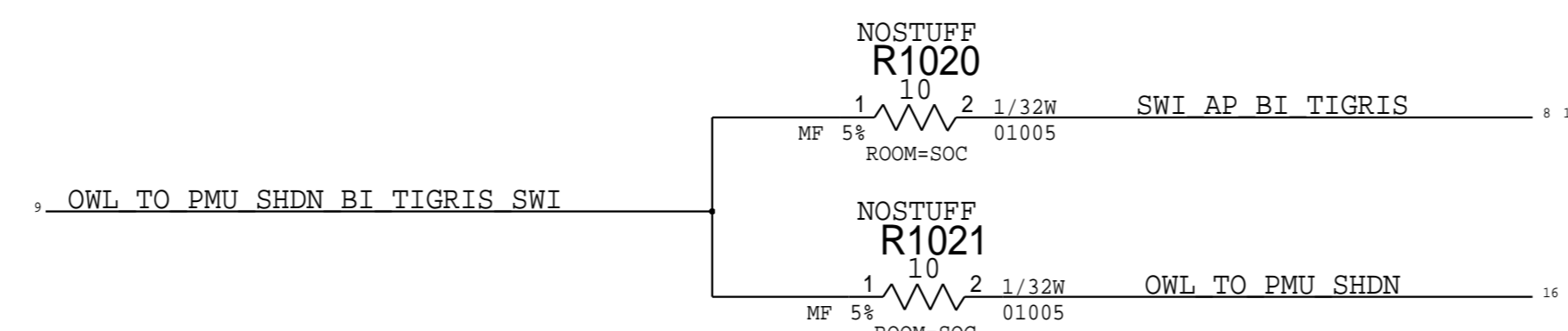


POWER STATE CONTROL PROBE POINTS

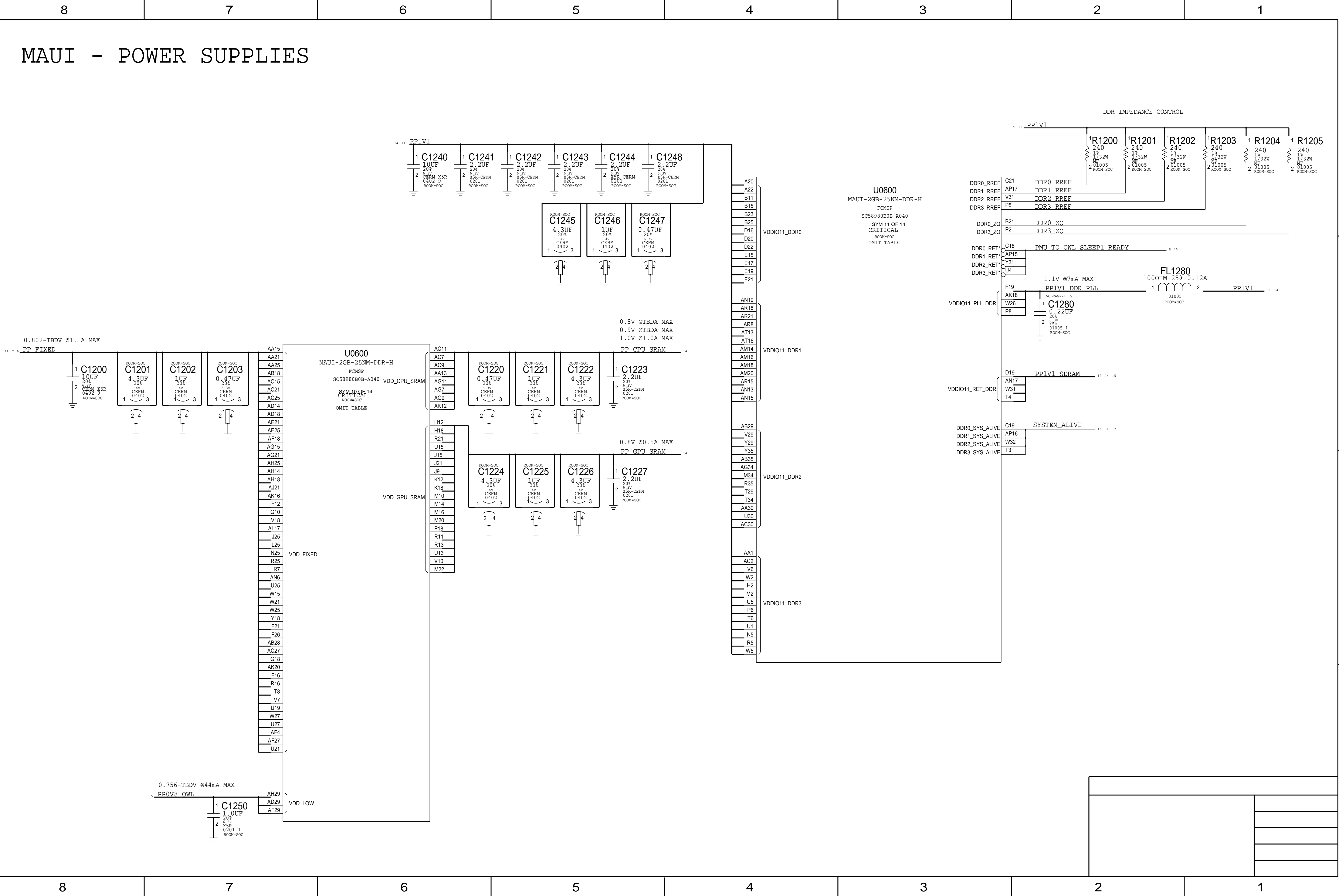
16	OWL_TO_PMU_ACTIVE_REQUEST	1	SM	PP1020
16	PMU_TO_OWL_ACTIVE_READY	1	SM	PP1021
16	OWL_TO_PMU_SLEEP1_REQUEST	1	SM	PP1022
16	PMU_TO_OWL_SLEEP1_READY	1	SM	PP1023



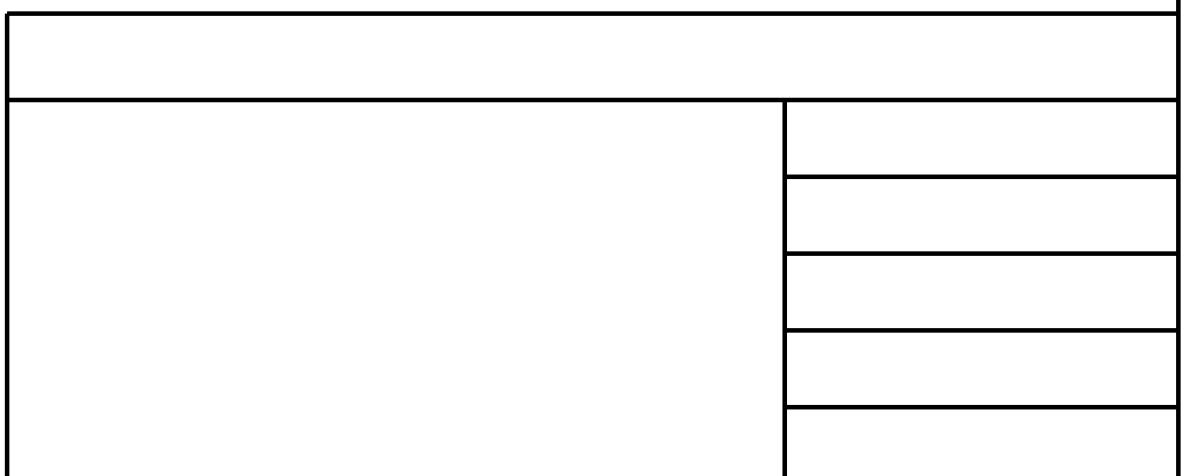
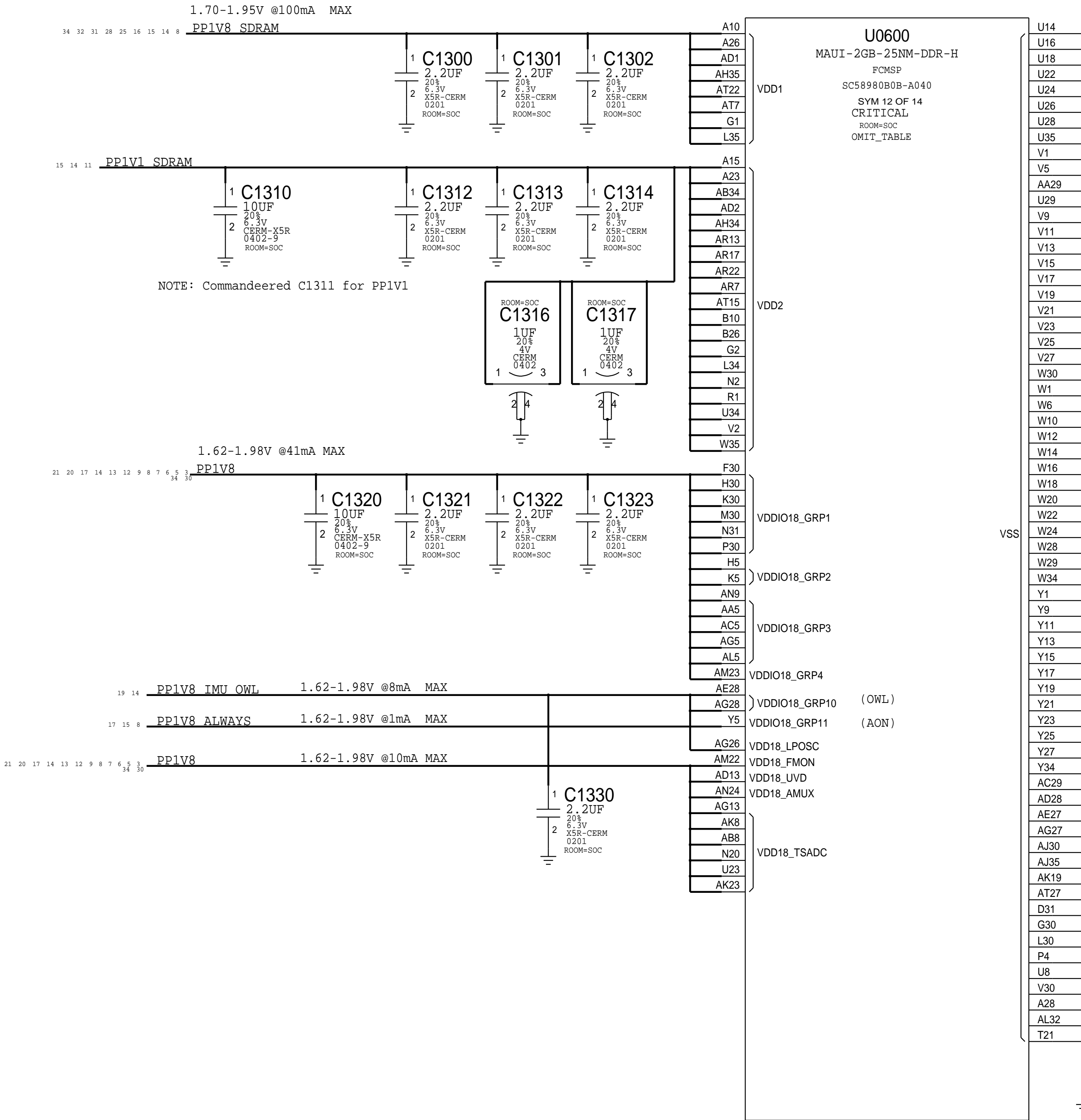
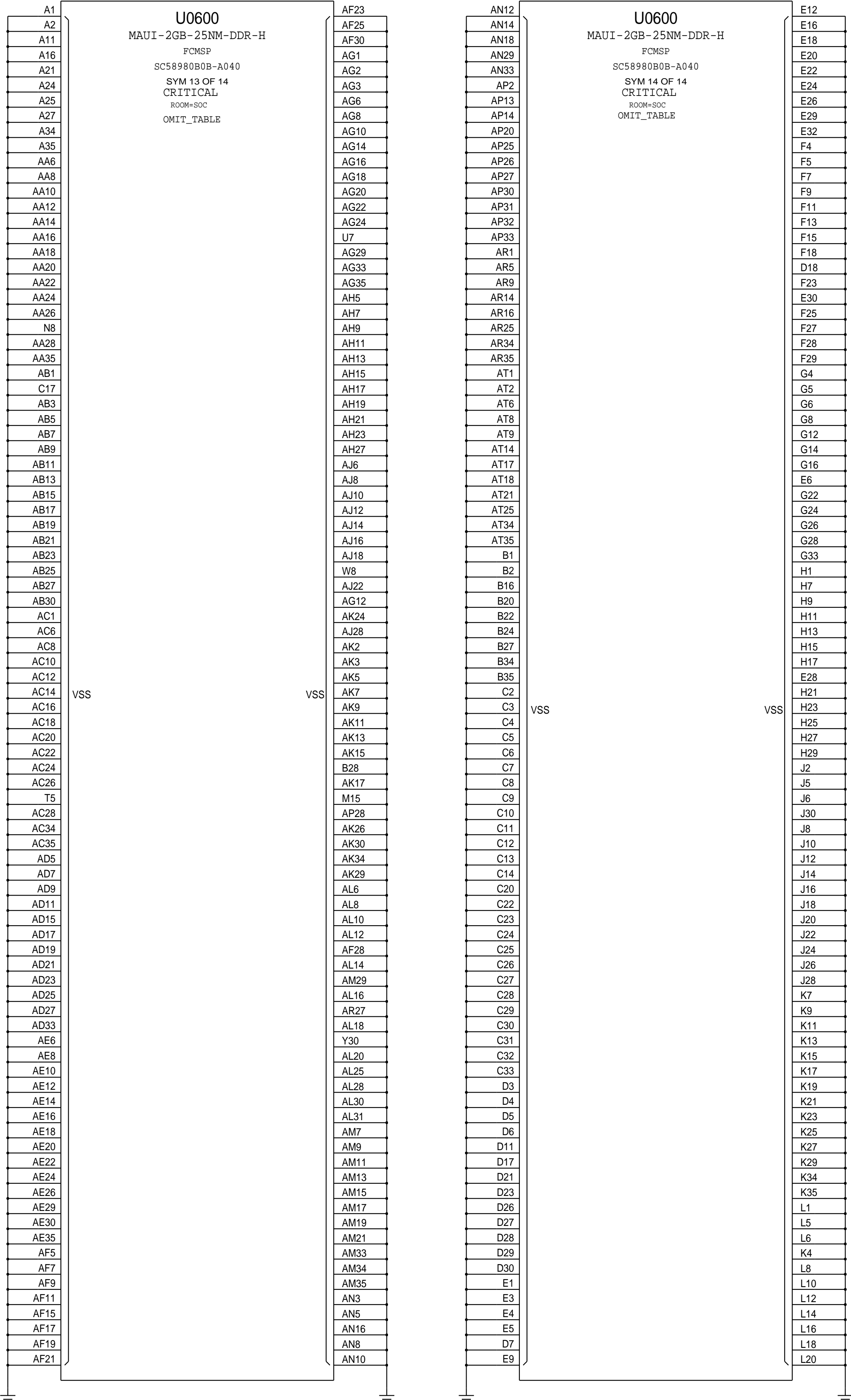
OWL SYSTEM SHUTDOWN OPTION



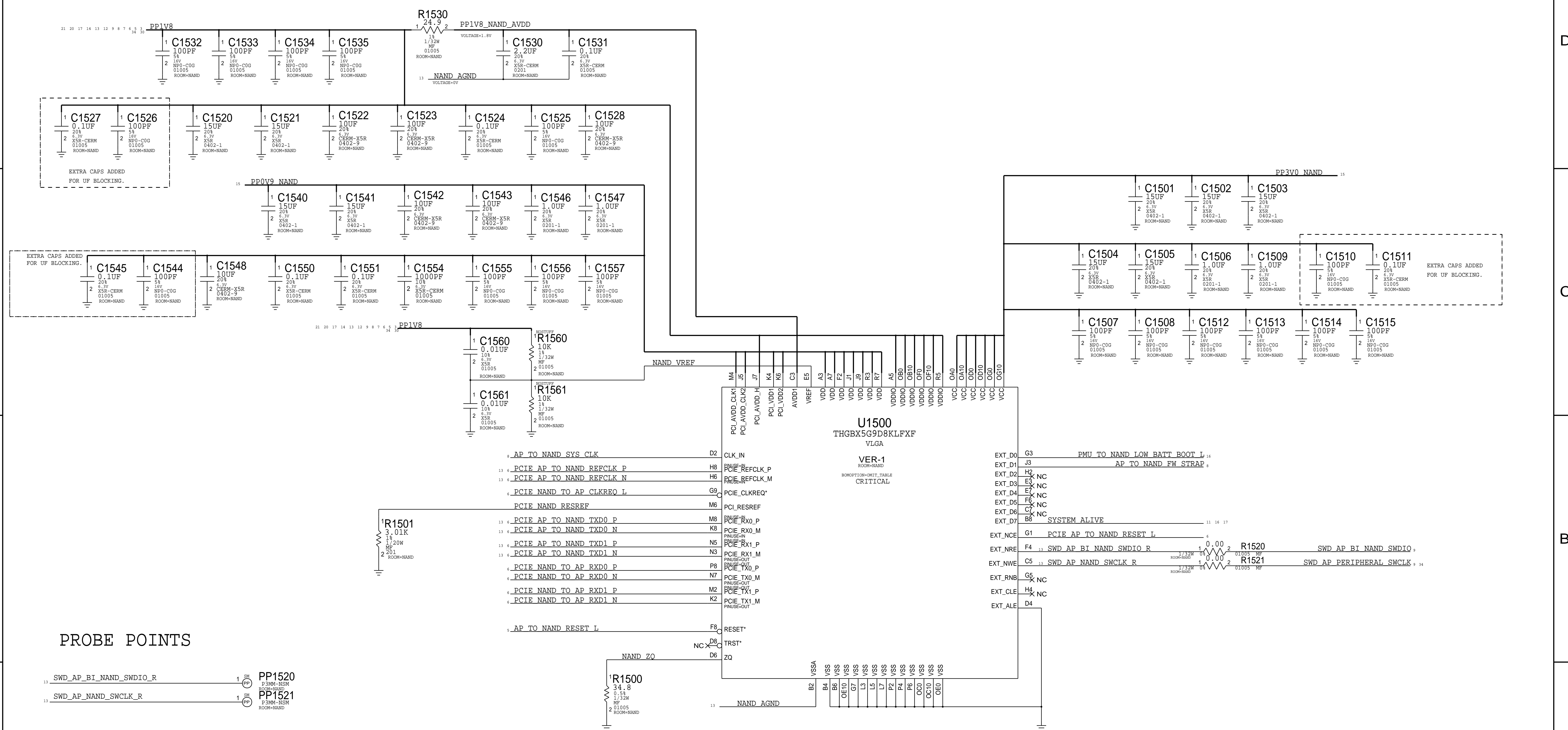
MAUI - POWER SUPPLIES



MAUI - POWER SUPPLIES

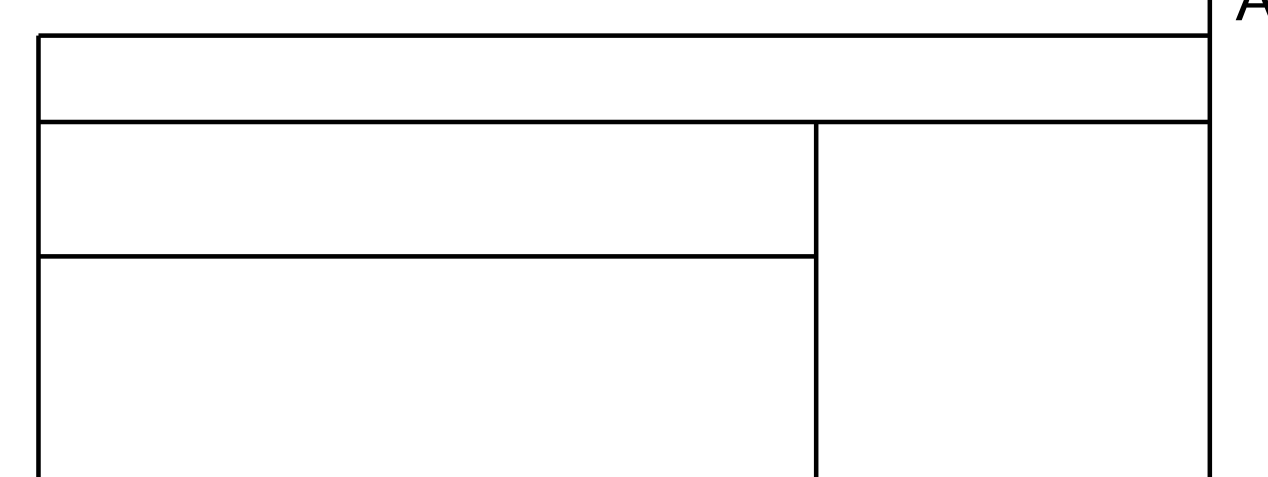


S3E NAND

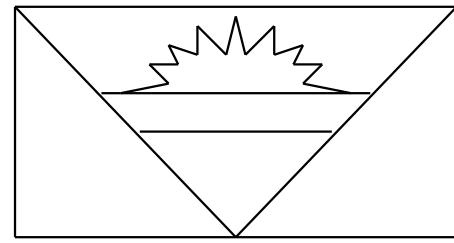


PROBE POINTS

13	SWD_AP_BI_NAND_SWDIO_R	1	SM	PP1520
13	SWD_AP_NAND_SWCLK_R	1	SM	PP1521
13	PCIE_AP_TO_NAND_REFCLK_P	1	SM	PP1500
13	PCIE_AP_TO_NAND_REFCLK_N	1	SM	PP1501
13	PCIE_AP_TO_NAND_TXD0_P	1	SM	PP1502
13	PCIE_AP_TO_NAND_TXD0_N	1	SM	PP1503
13	PCIE_AP_TO_NAND_TXD1_P	1	SM	PP1504
13	PCIE_AP_TO_NAND_TXD1_N	1	SM	PP1505



ANTIGUA PMU - Buck Supplies



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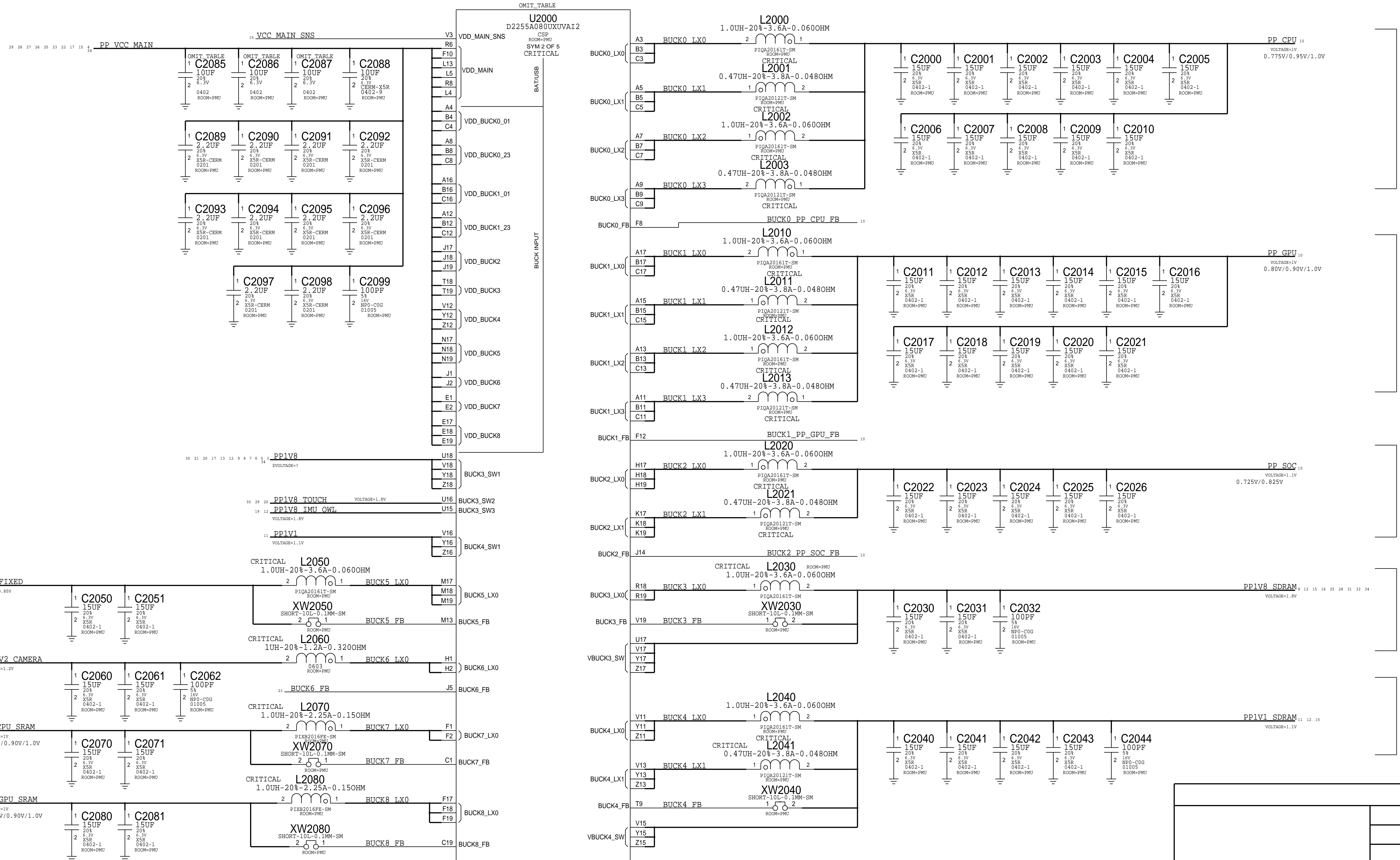
A

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BUCK0
1.2 SA MAX

BUCK1
10.5A MAX

BUCK2
4.7A MAX

BUCK3
1.5A MAX

BUCK4
4.7A MAX

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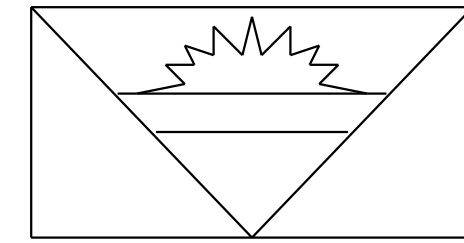
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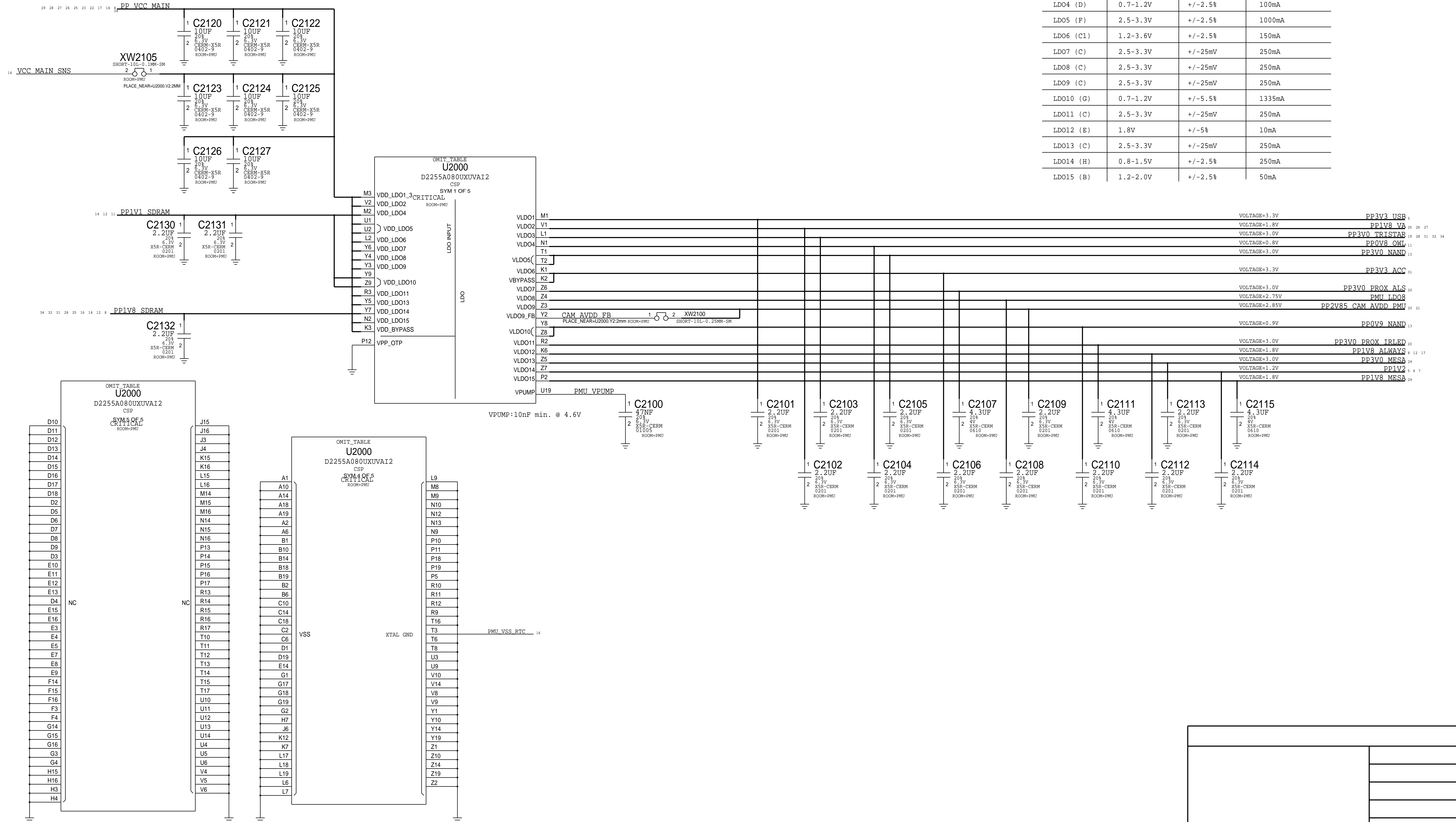
1

ANTIGUA PMU - LDOs



ANTIGUA LDO SPECS

LDO#	ADJ. RANGE	ACCURACY	MAX. CURRENT
LDO1 (A)	2.5-3.3V	+/-1.4%	50mA
LDO2 (B)	1.2-2.0V	+/-2.5%	50mA
LDO3 (A)	2.5-3.3V	+/-1.4%	50mA
LDO4 (D)	0.7-1.2V	+/-2.5%	100mA
LDO5 (F)	2.5-3.3V	+/-2.5%	100mA
LDO6 (C1)	1.2-3.6V	+/-2.5%	150mA
LDO7 (C)	2.5-3.3V	+/-25mV	250mA
LDO8 (C)	2.5-3.3V	+/-25mV	250mA
LDO9 (C)	2.5-3.3V	+/-25mV	250mA
LDO10 (G)	0.7-1.2V	+/-5.5%	1335mA
LDO11 (C)	2.5-3.3V	+/-25mV	250mA
LDO12 (E)	1.8V	+/-5%	10mA
LDO13 (C)	2.5-3.3V	+/-25mV	250mA
LDO14 (H)	0.8-1.5V	+/-2.5%	250mA
LDO15 (B)	1.2-2.0V	+/-2.5%	50mA



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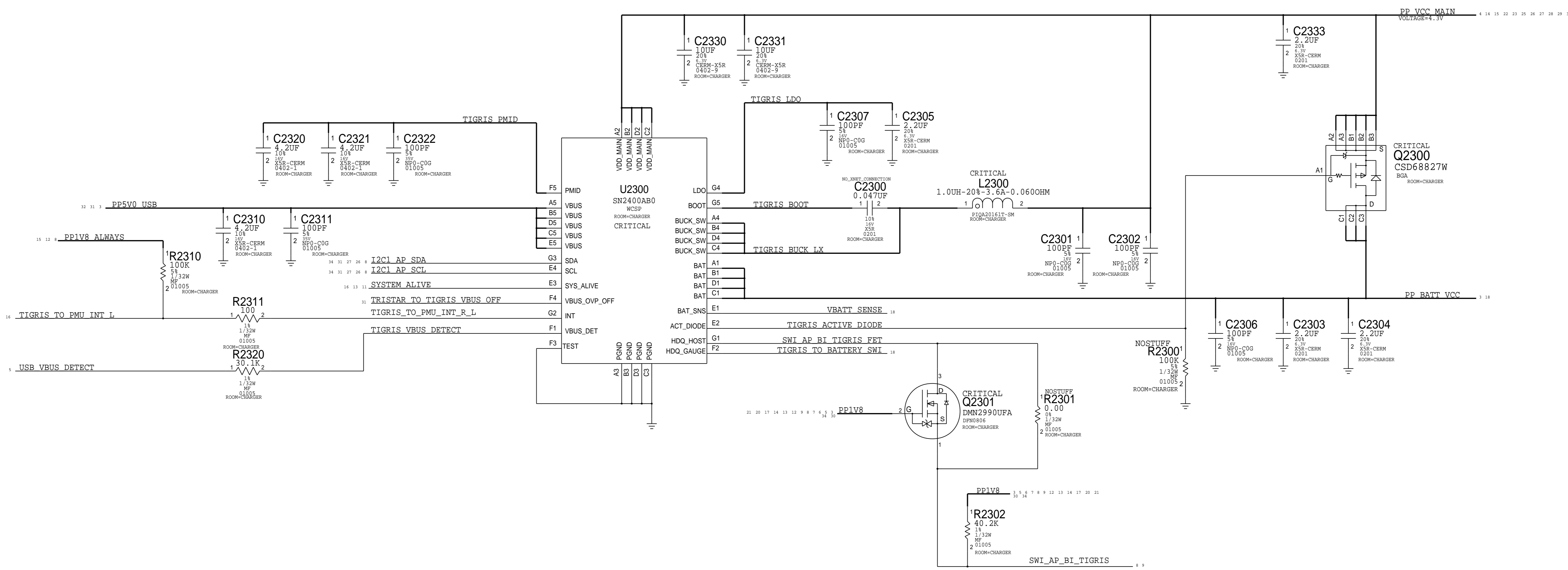
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TIGRIS CHARGER

APN: 343S0693



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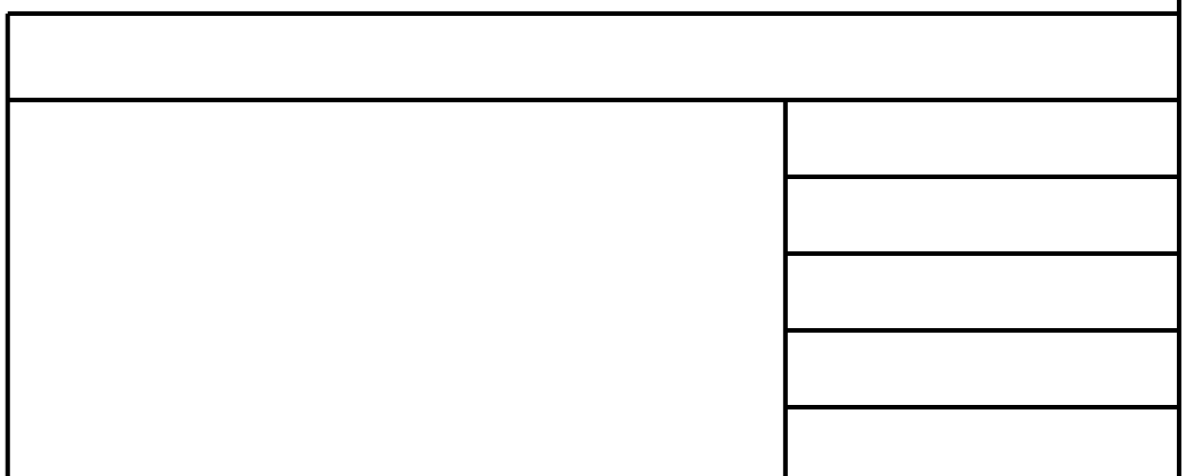
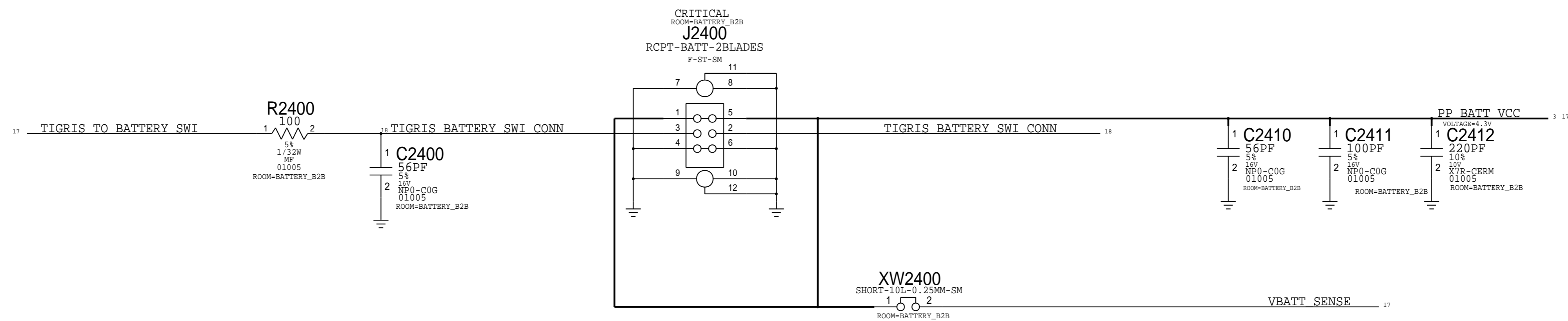
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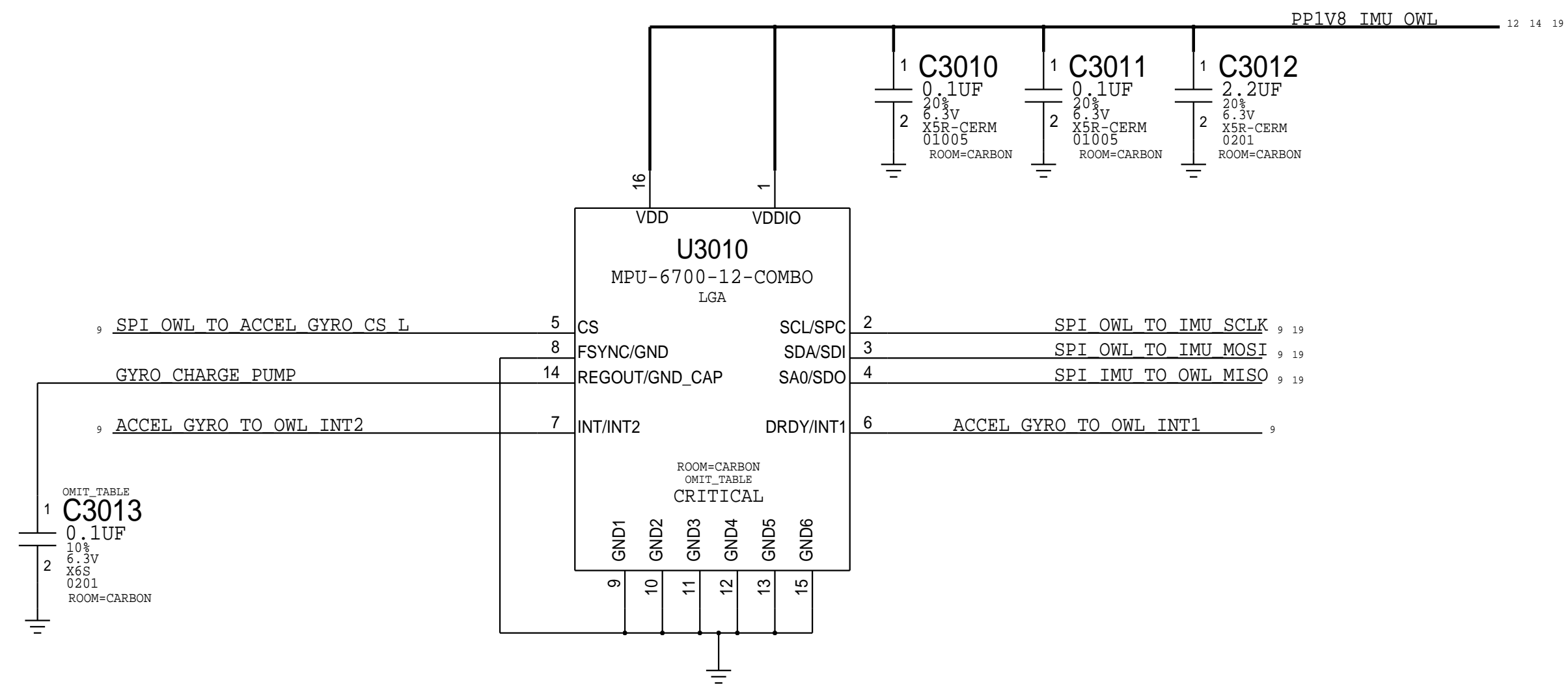
BATTERY CONNECTOR

THIS ONE ON MLB ---> 516S00104 (RCPT)
516????? (PLUG)



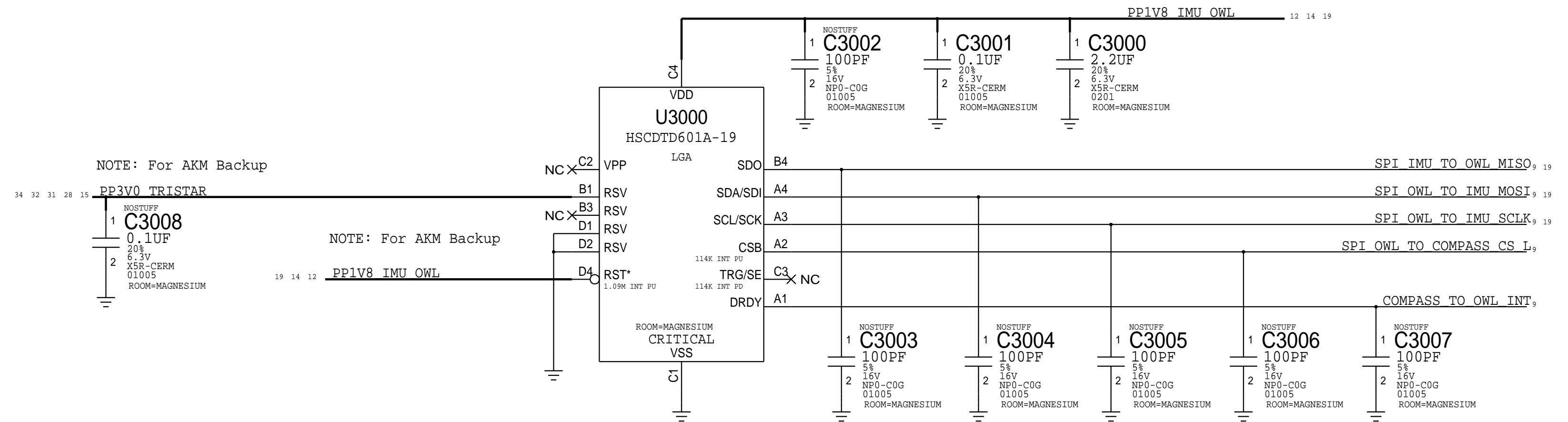
CARBON - ACCEL & GYRO

ST (APN 338S00029): C3013=0.01UF
 INVENSENSE, MPU-6700 (APN 338S00017): C3013=0.1UF
 DOE INVENSENSE, MPU-6800 (APN 338S00087): C3013=0.1UF



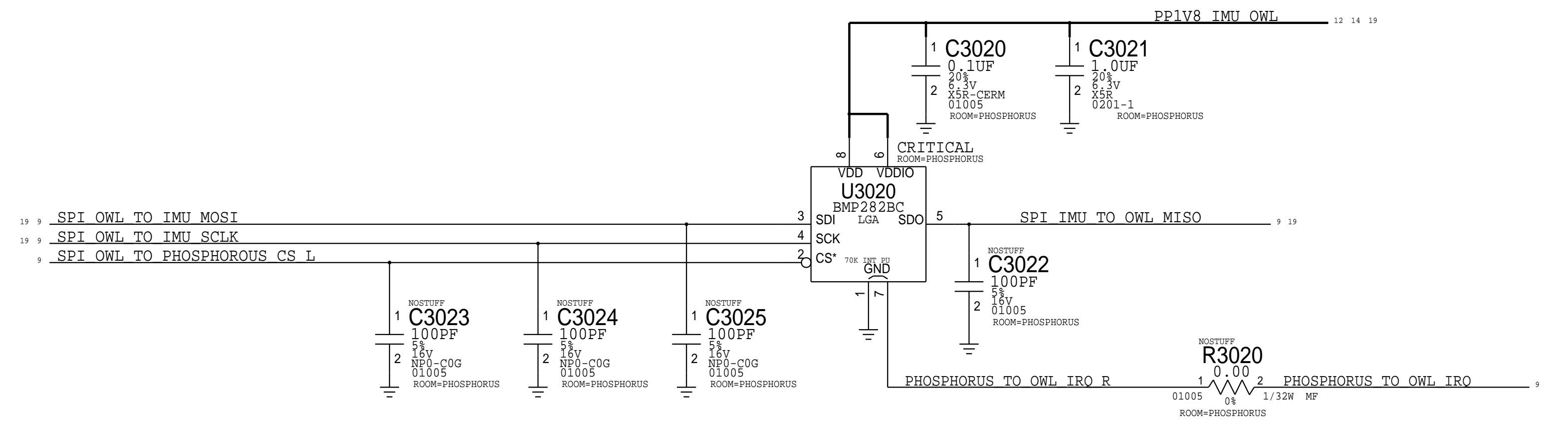
MAGNESIUM - COMPASS

APN:338S00084



PHOSPHOROUS

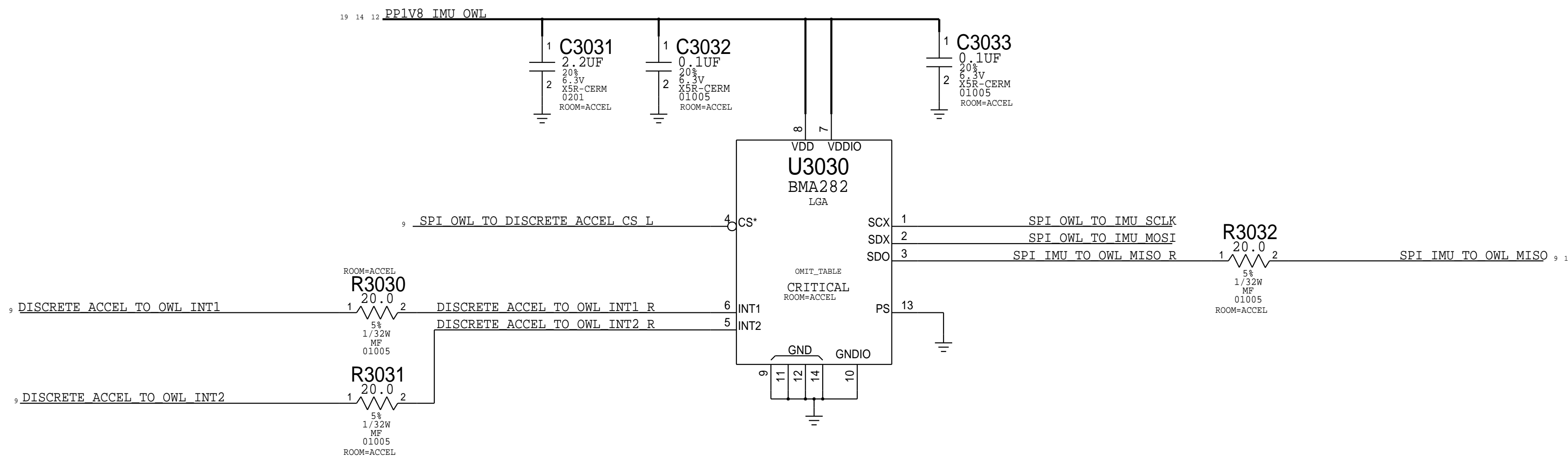
BOSCH (APN:338S00044)



R3020 SHOULD BE STUFFED FOR ST PHOSPHOROUS ONLY.
 FOR BOSCH PHOSPHOROUS, PINS 1 AND 7 ARE SHORTED INTERNALLY,
 SO NO NEED FOR 0-OHM TO GROUND OPTION ON PIN 7.

DISCRETE ACCEL

BOSCH APN 338S1163
 NO-STUFF for Invensense DOE



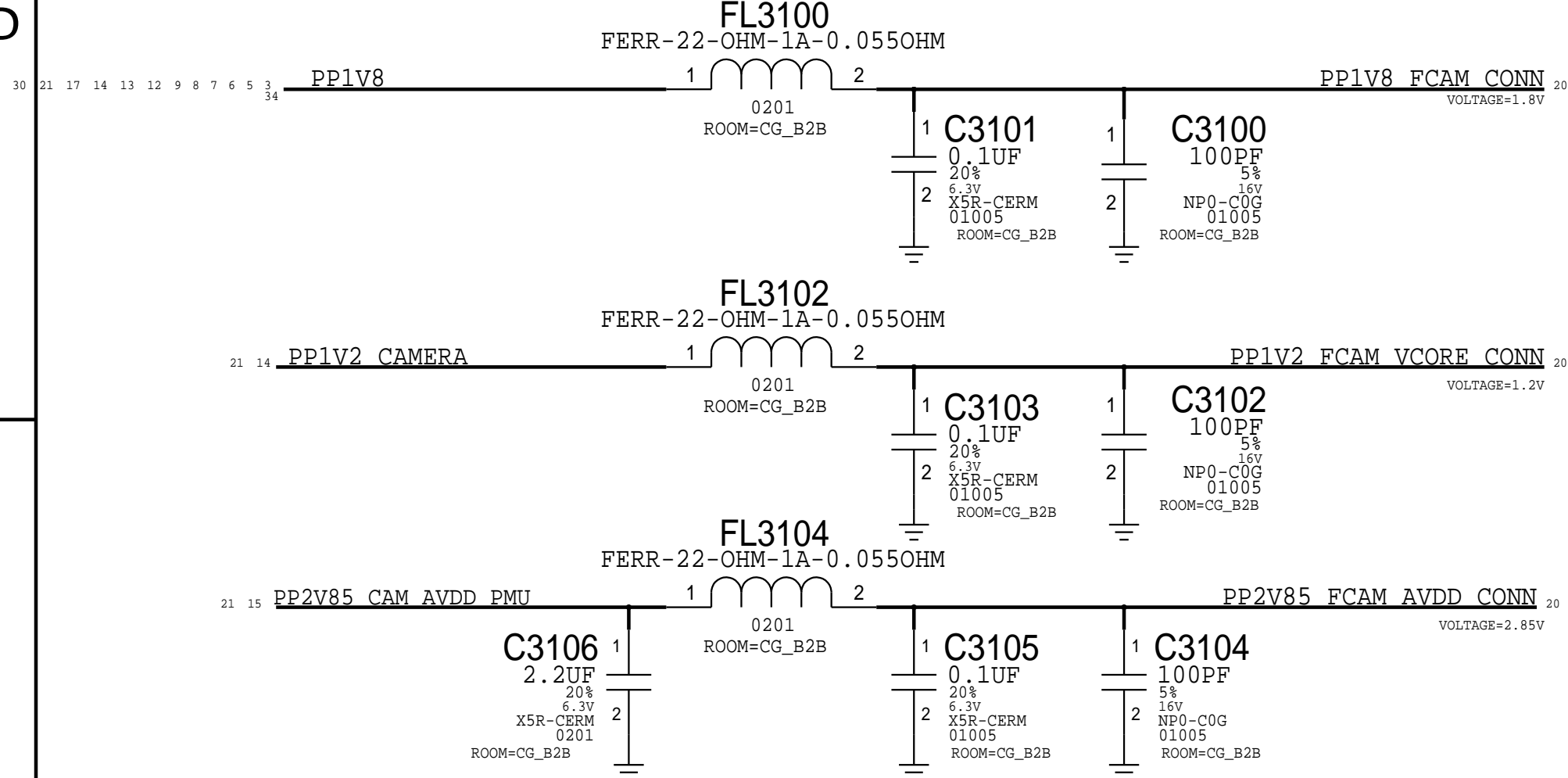
FRONT CAMERA FLEX

PROX & ALS POWER

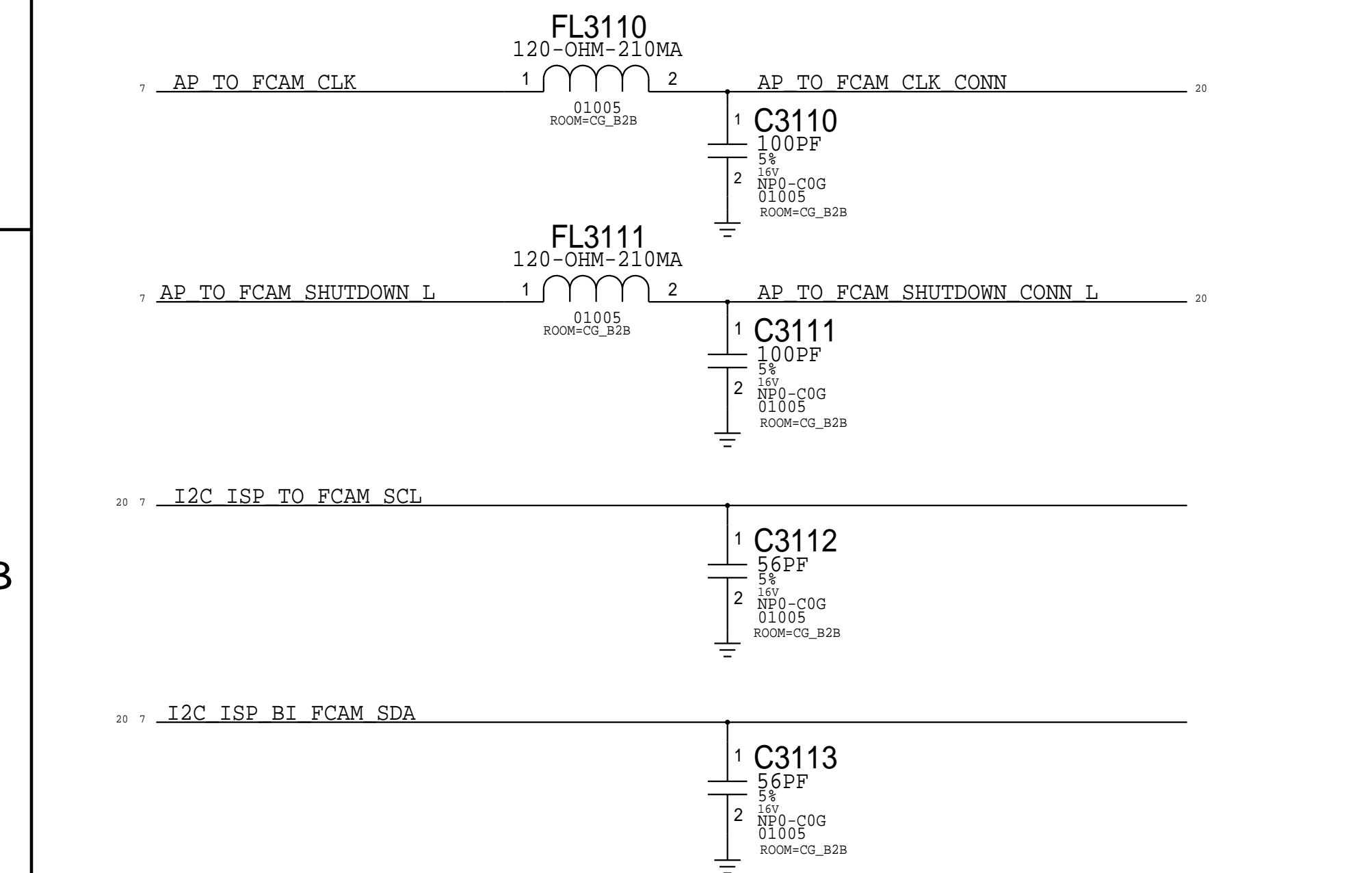
FCAM CONNECTOR

MLB: 516S1081 (RCPT)
FLEX: 516S1177 (PLUG)

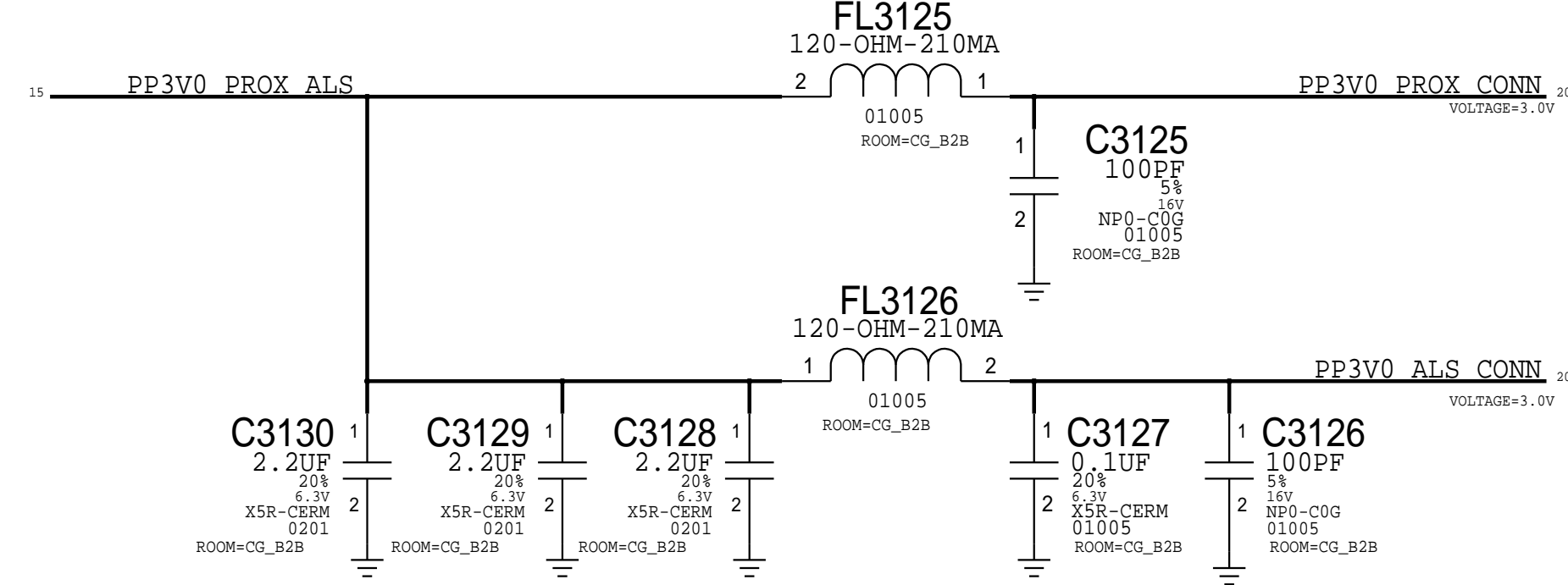
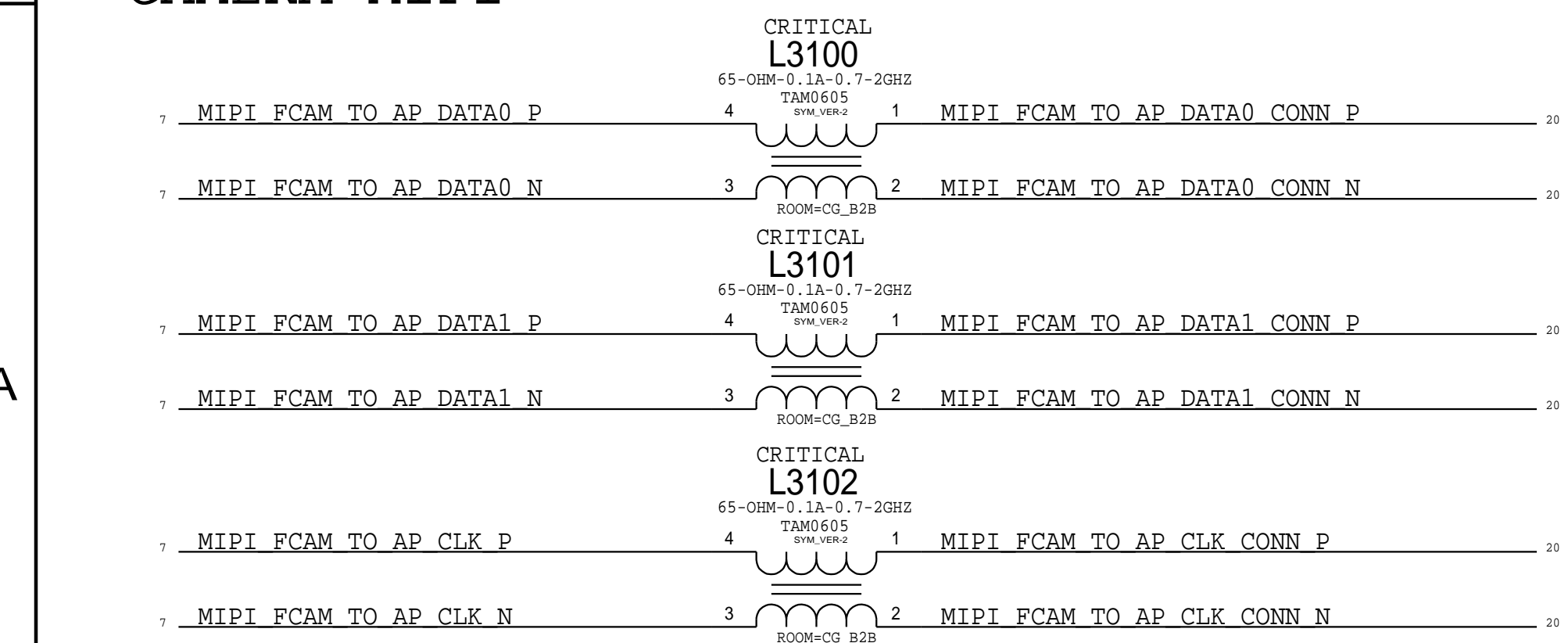
CAMERA POWER



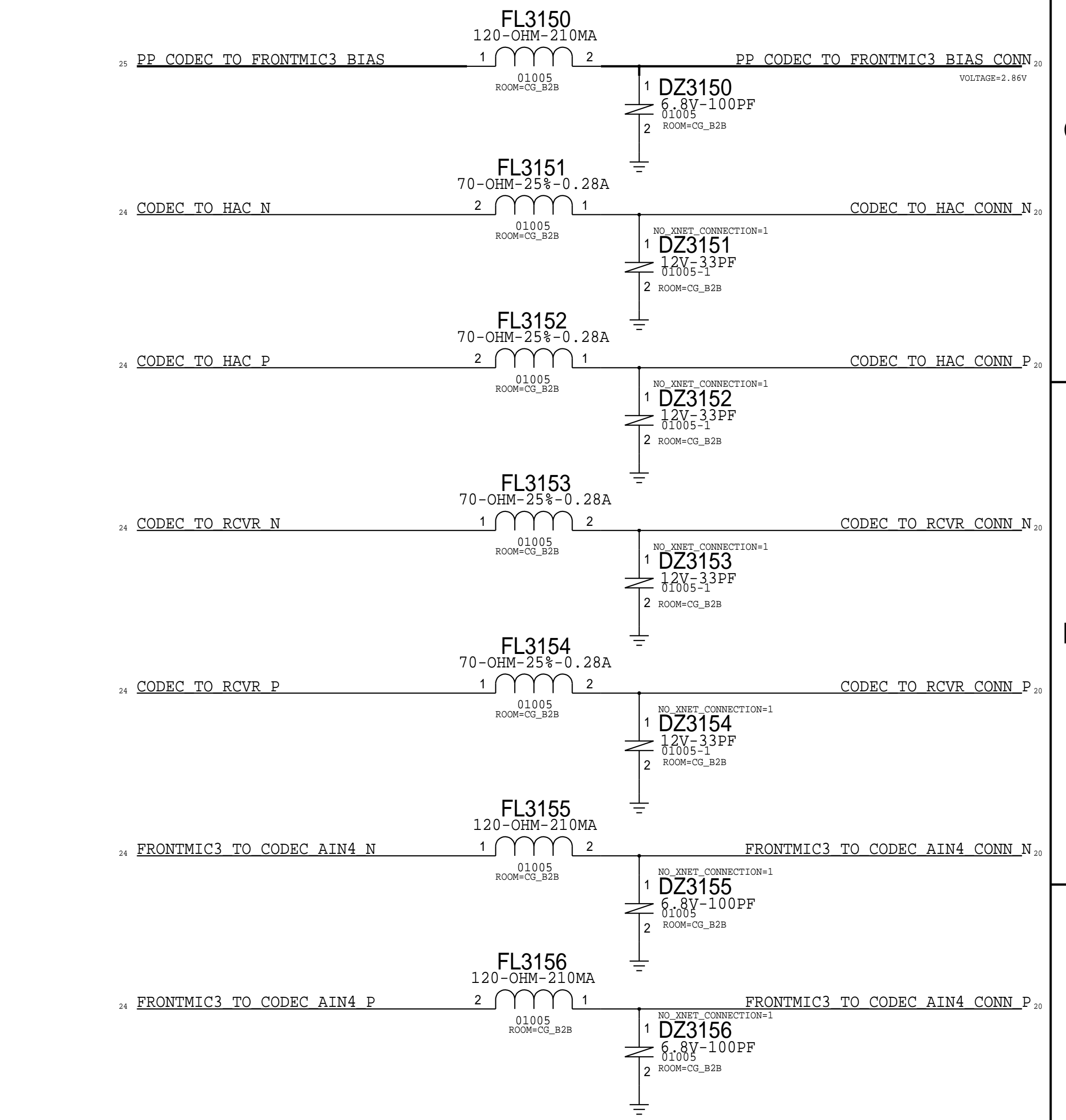
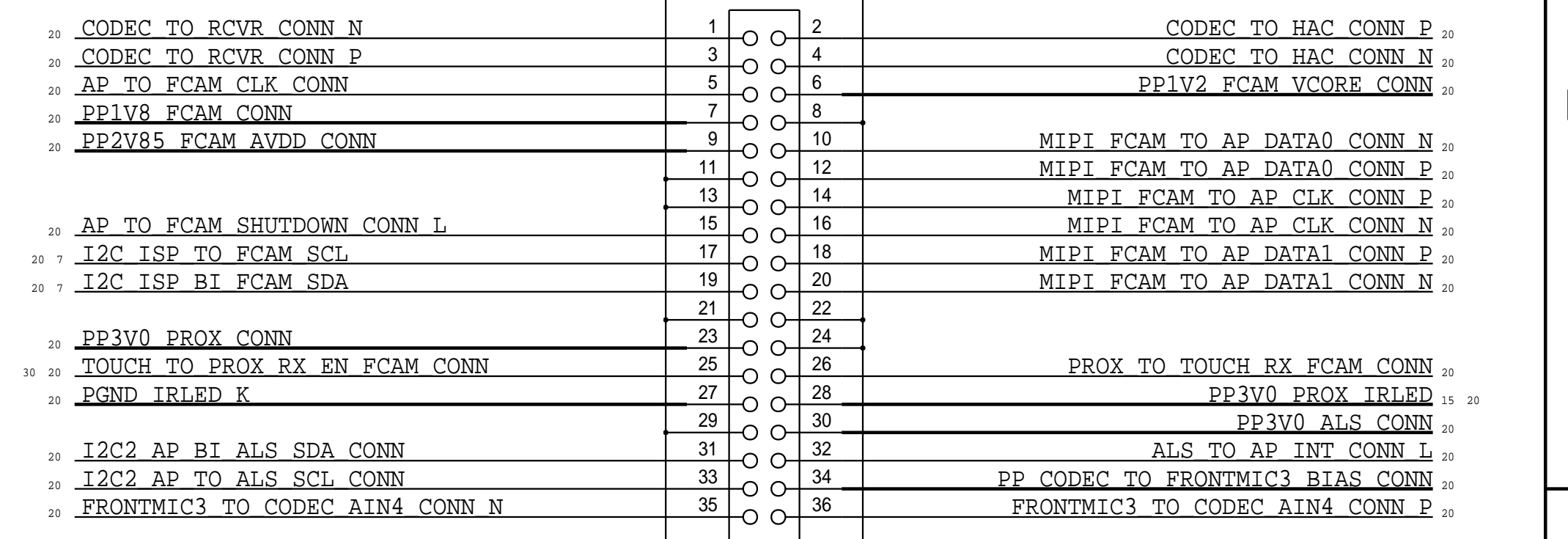
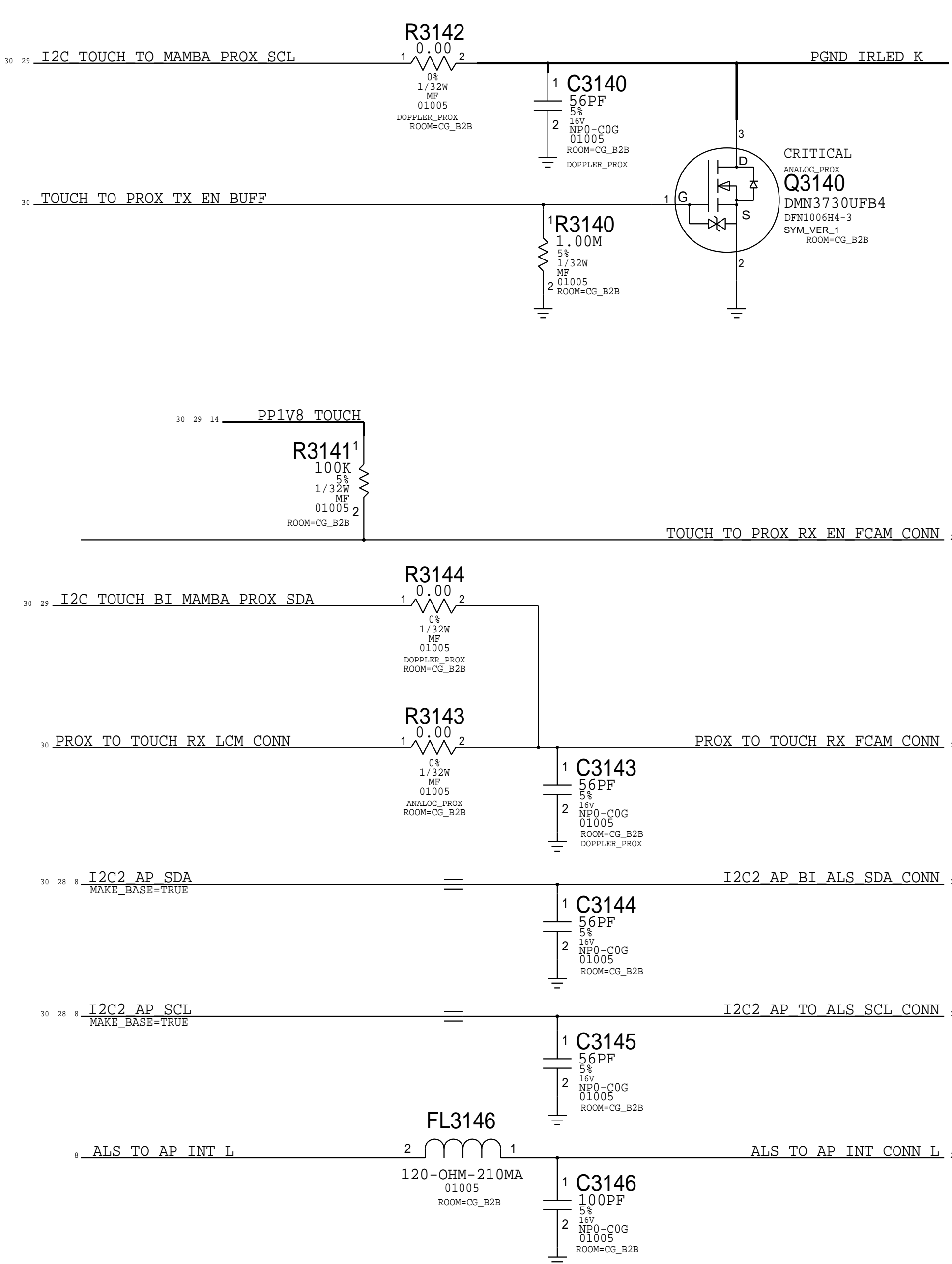
CAMERA I/O



CAMERA MIPI



PROX & ALS INTERFACE



REAR CAMERA FLEX

CAMERA POWER/MAMBA LDO

RCAM CONNECTOR

MLB: 516S00043 (RCPT)

FLEX: 516S00042 (PLUG)

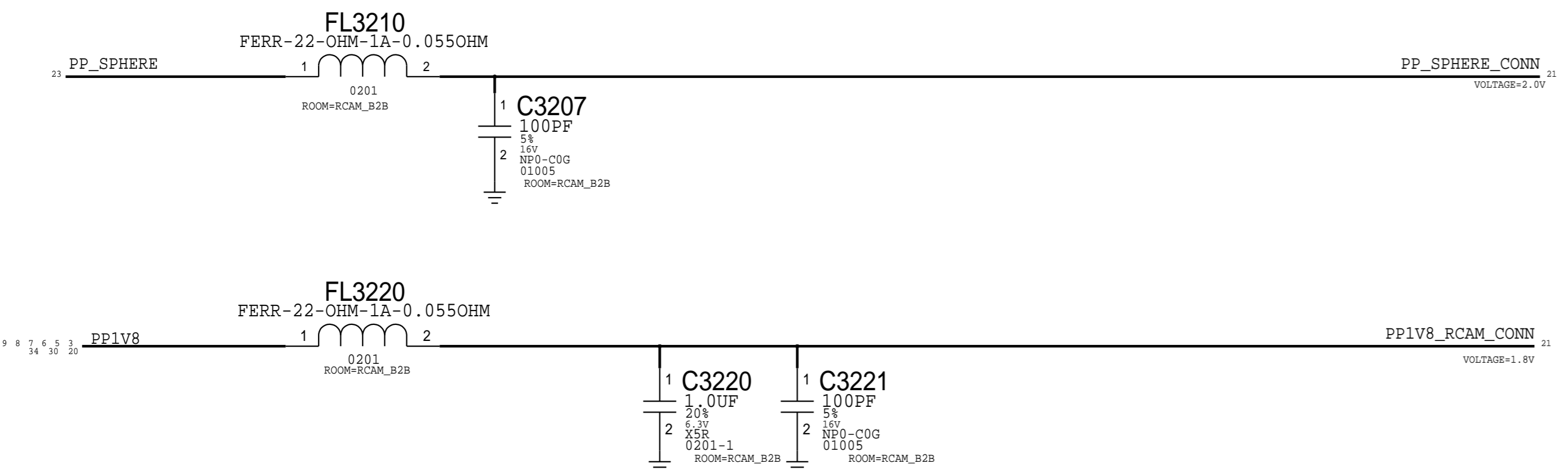
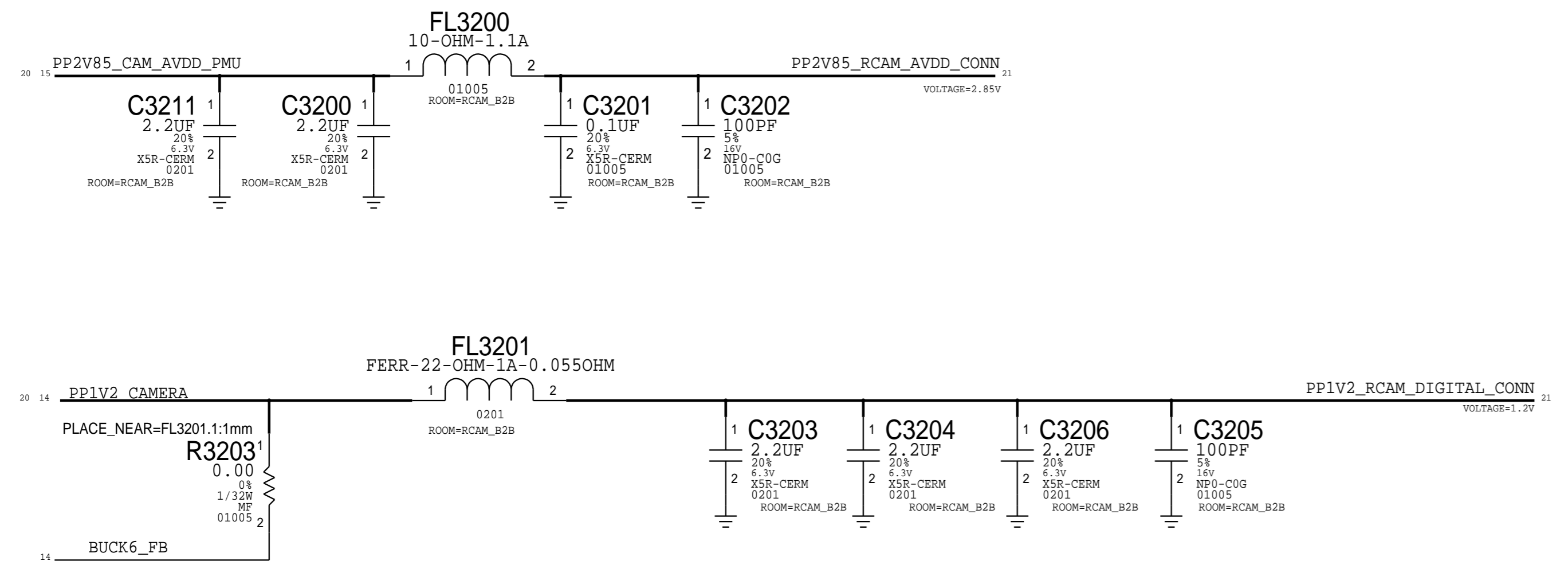
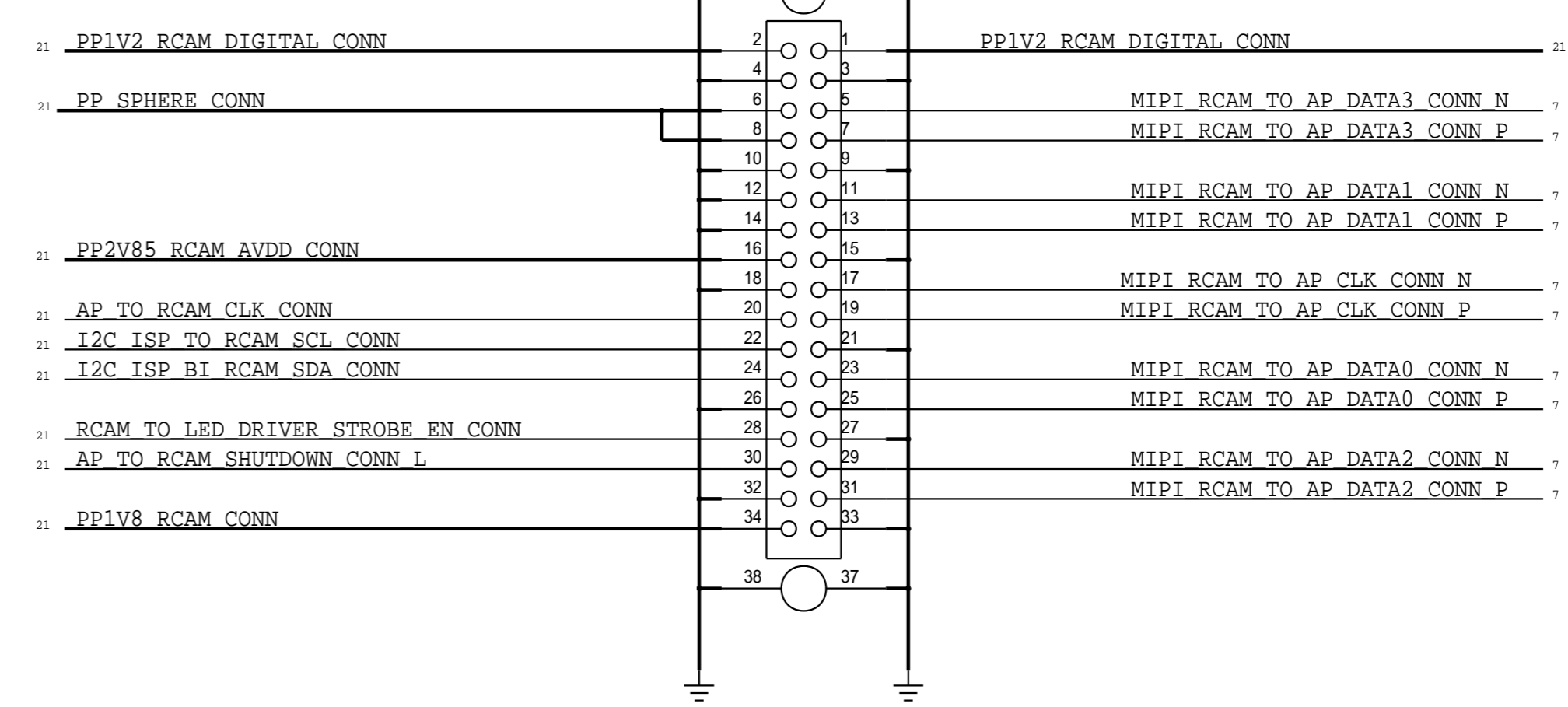
CRITICAL

ROOM=RCAM_B2B

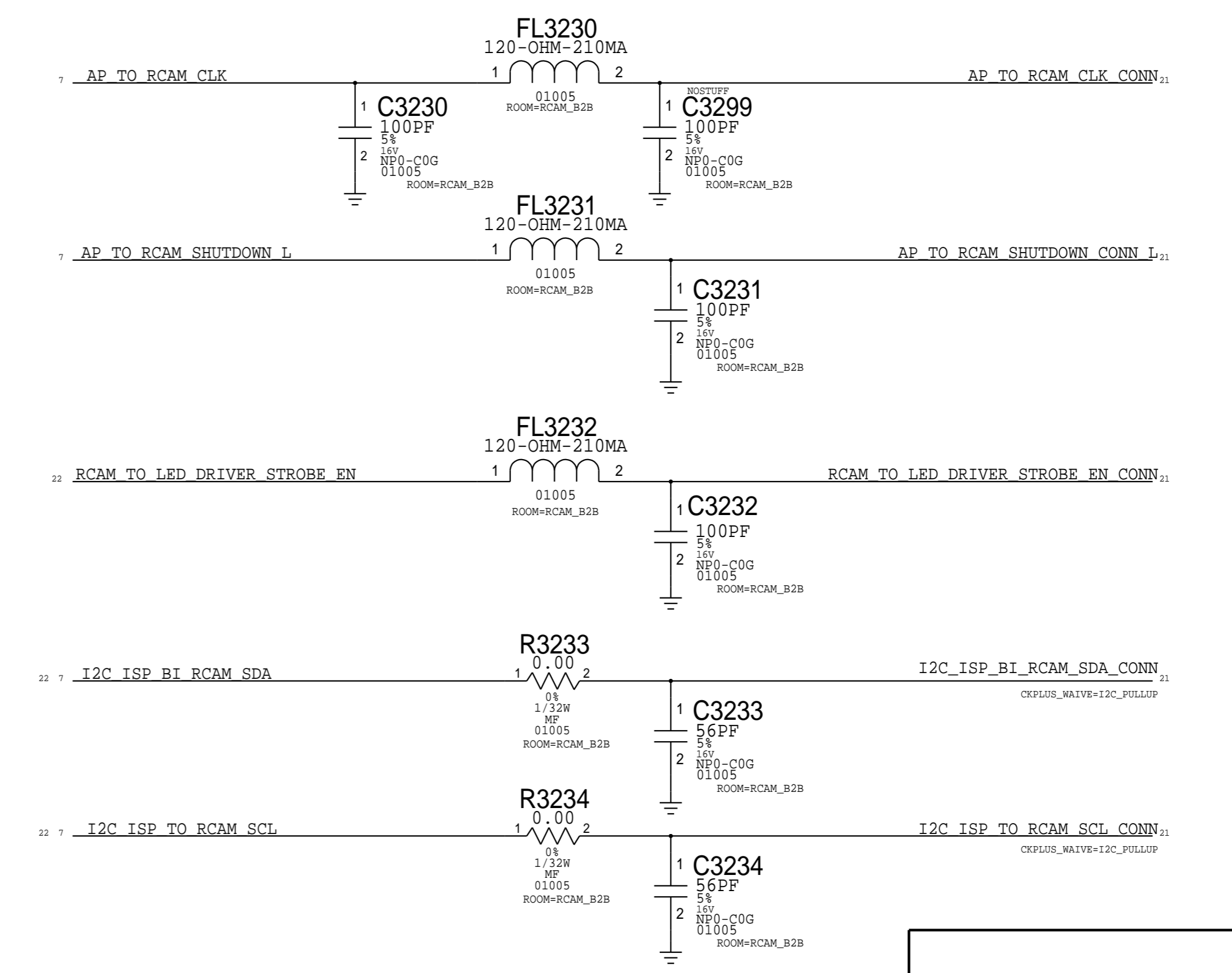
J3200

AA26-S034VA1

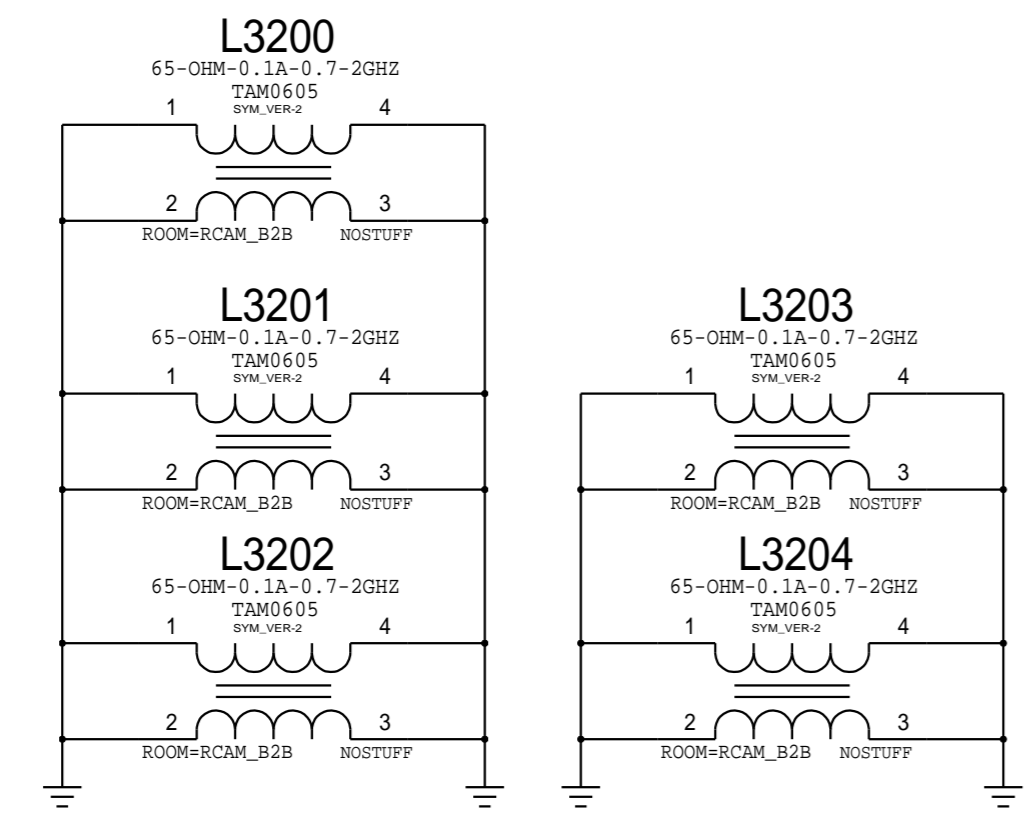
P-55-08



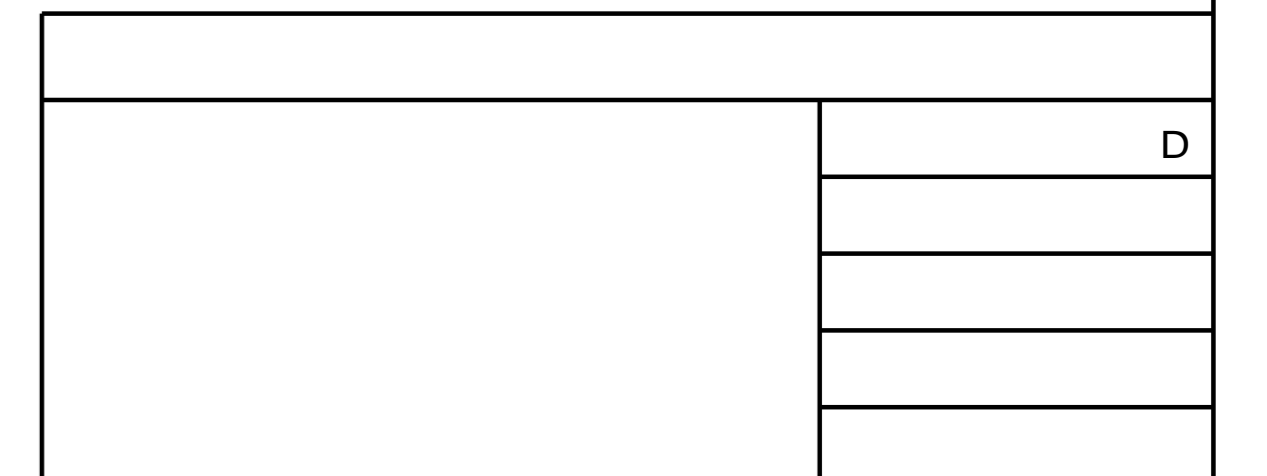
Digital I/O



MIPI Common-Mode Chokes



Placeholder Footprints



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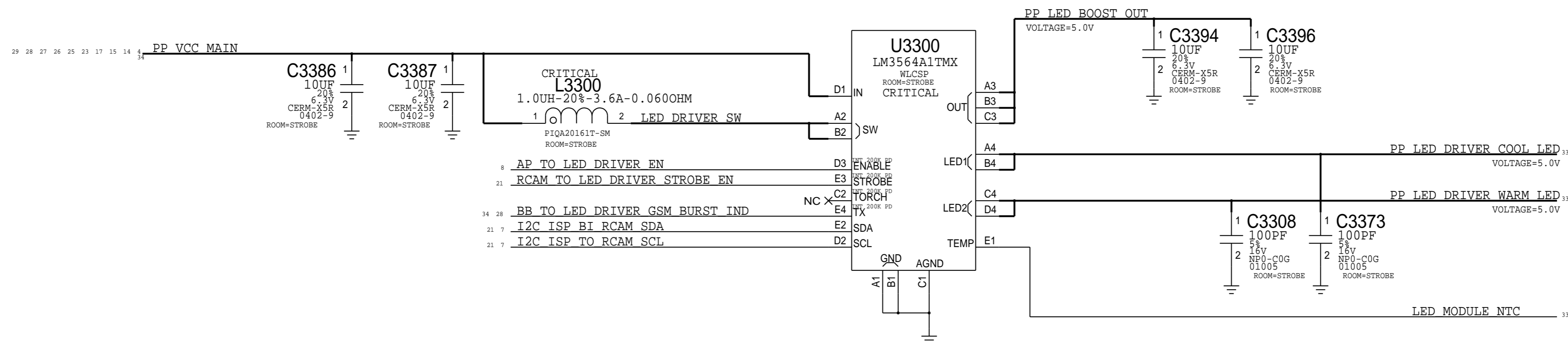
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DUAL LED STROBE DRIVER

APN: 353S3899



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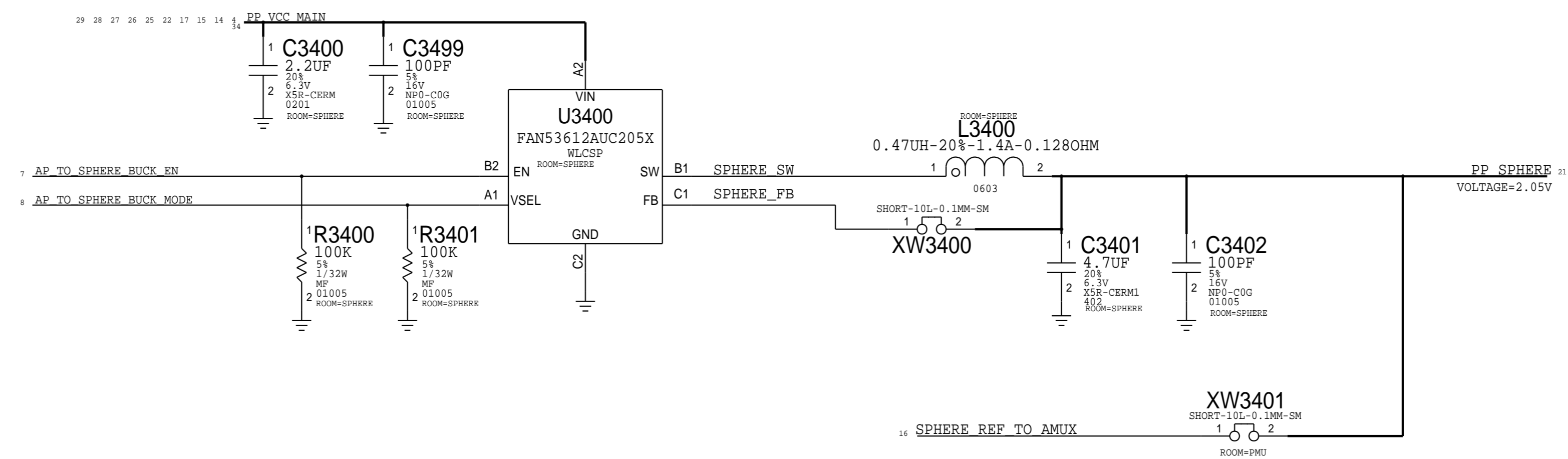
C

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Sphere Driver

APN: 353S00413



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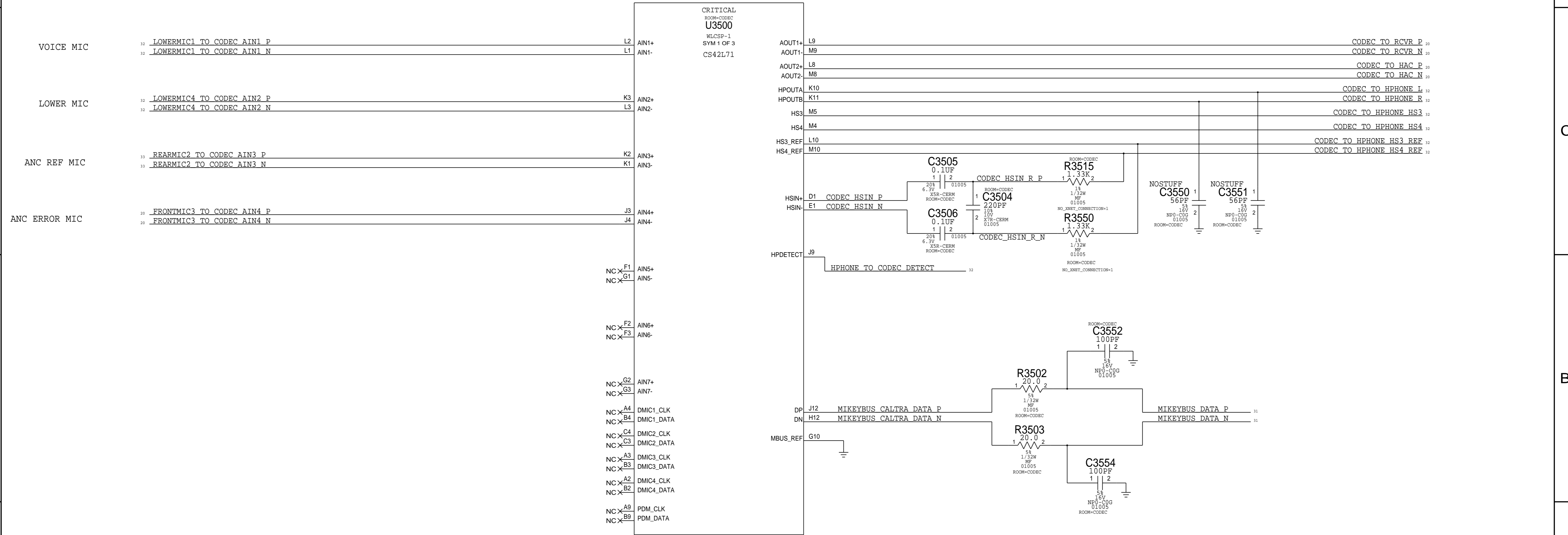
C

B

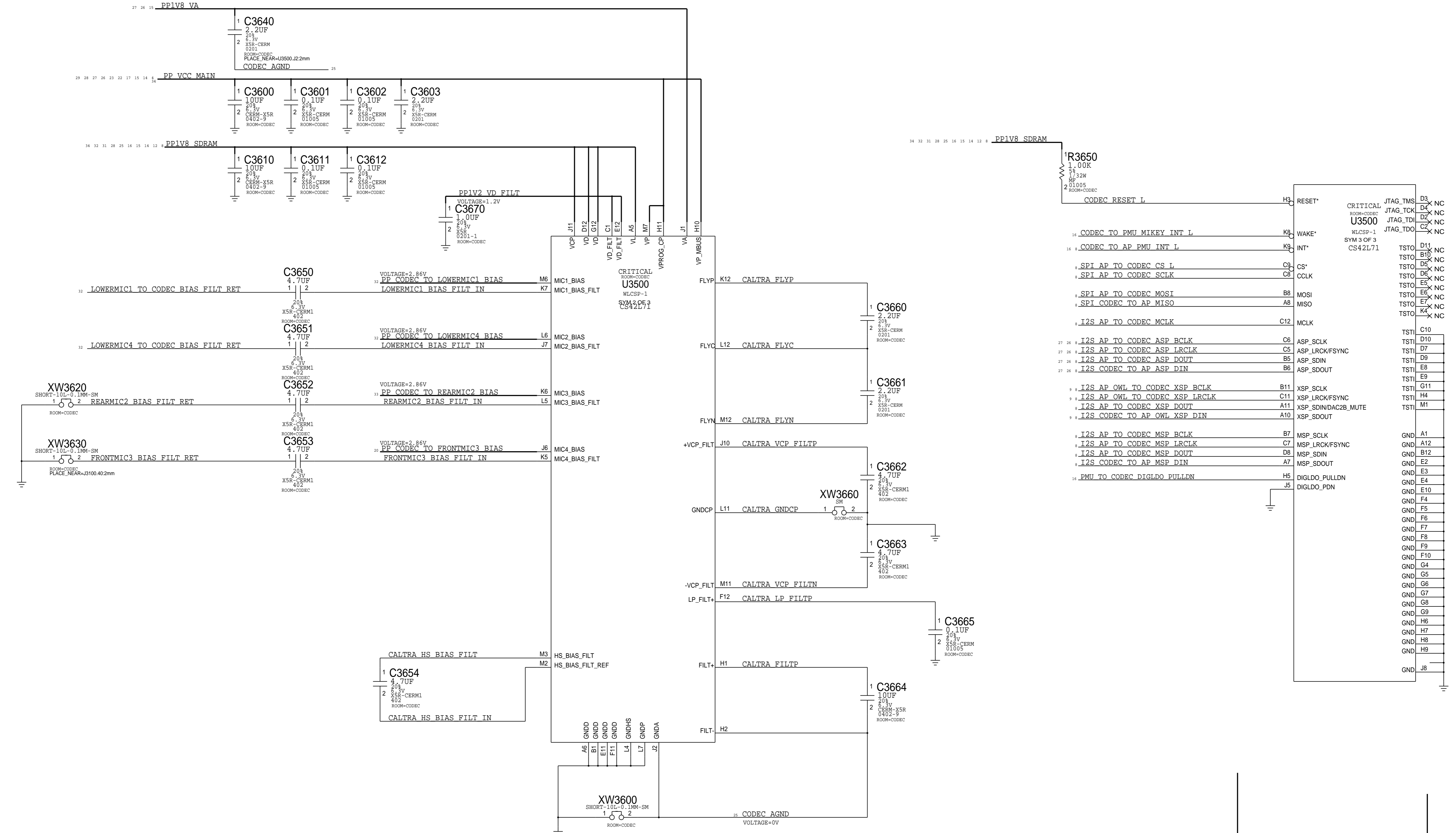
A

CALTRA AUDIO CODEC (ANALOG INPUTS & OUTPUTS)

APN: 338S00105

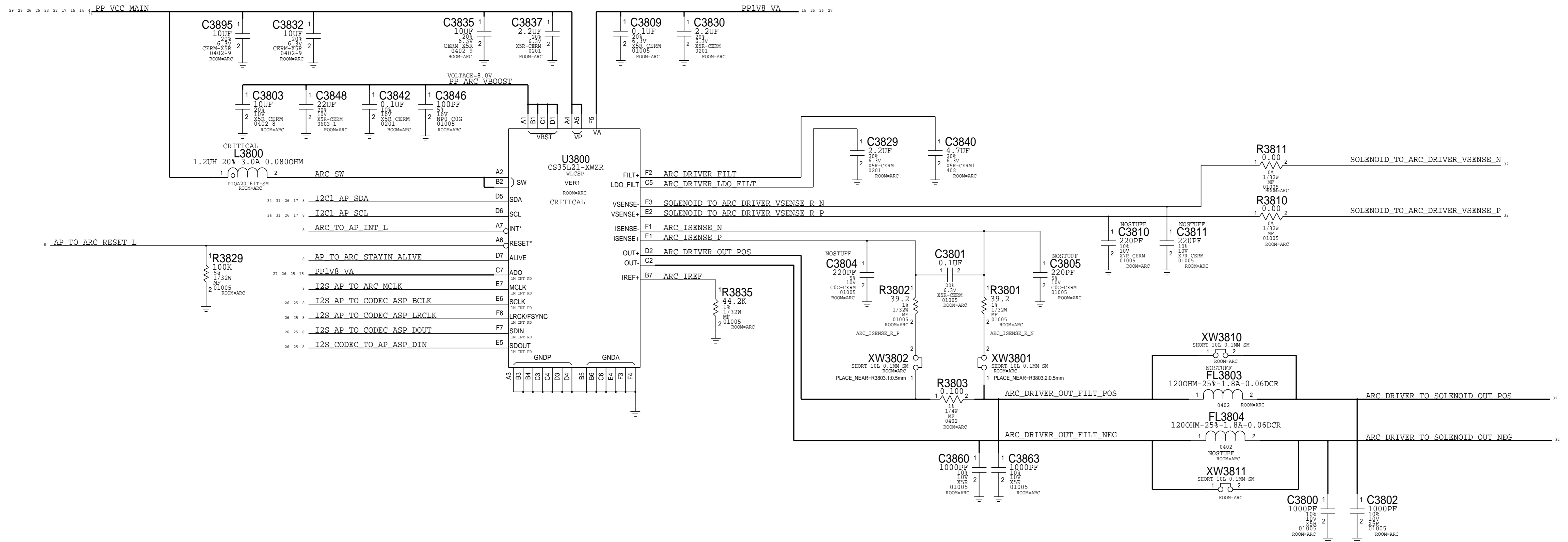


CALTRA AUDIO CODEC (POWER & I/O)



ARC DRIVER

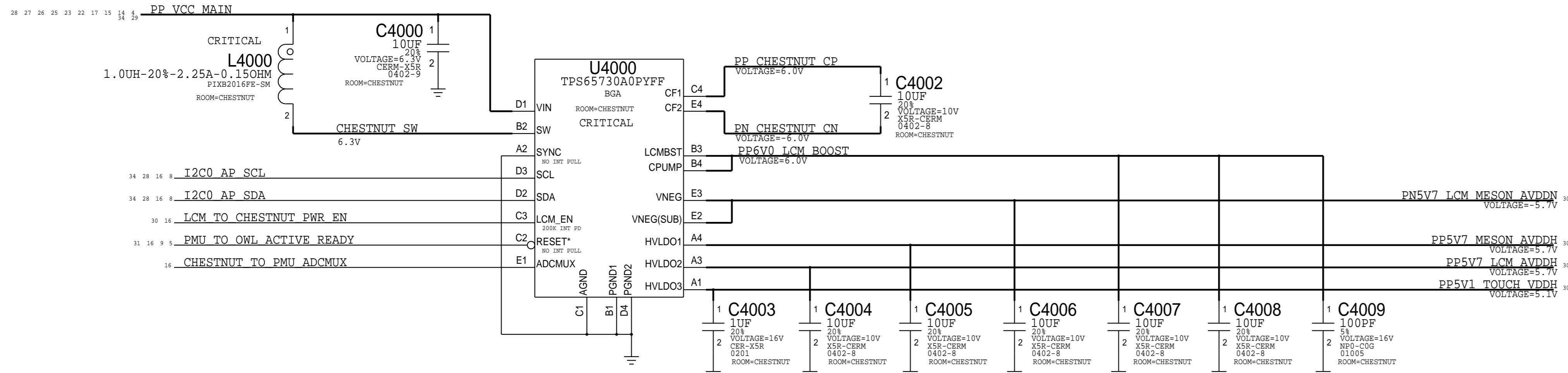
APN: 338S1285
I2C ADDRESS: 1000001



DISPLAY & TOUCH - POWER SUPPLIES

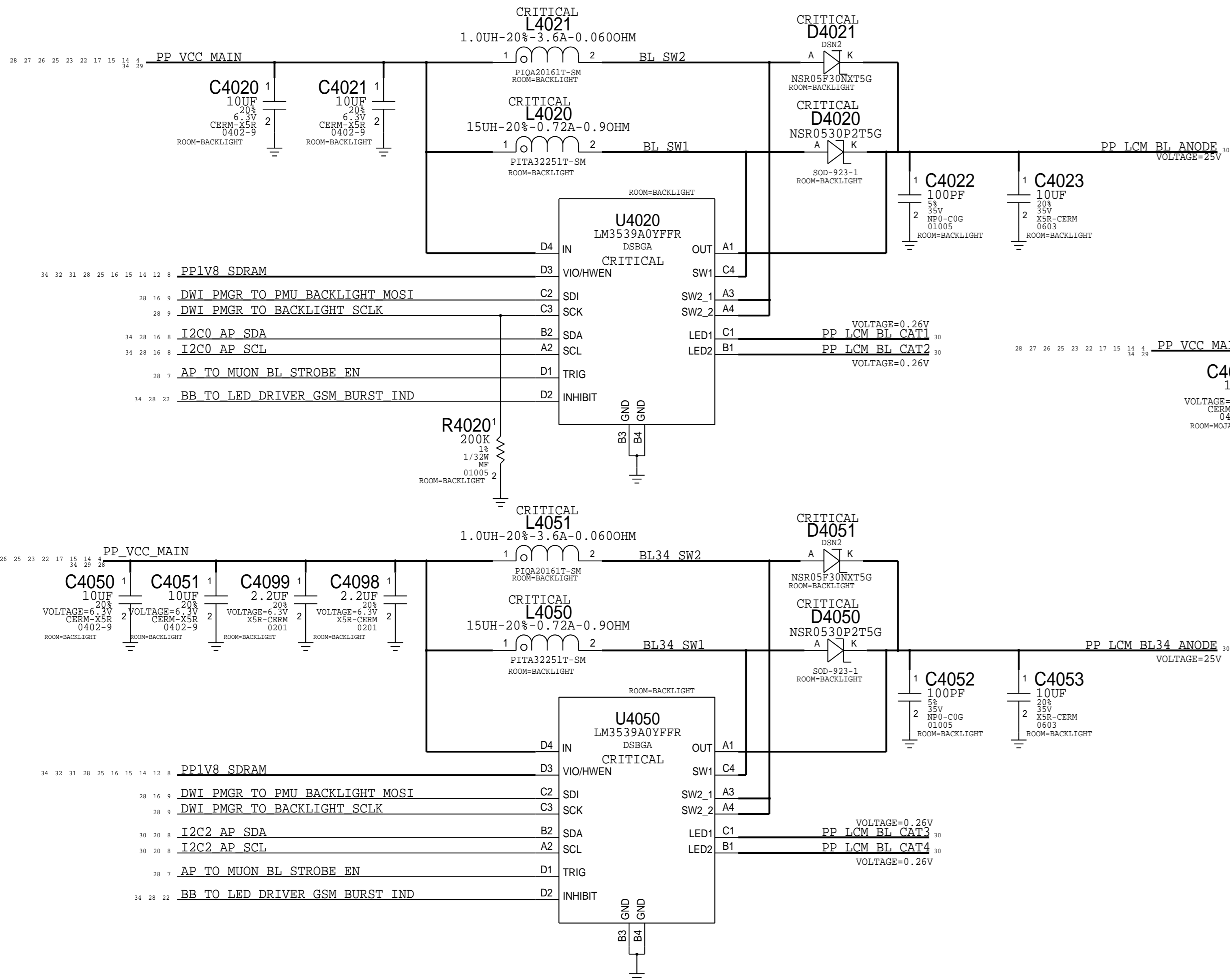
CHESTNUT DISPLAY PMU

APN: 338S1172



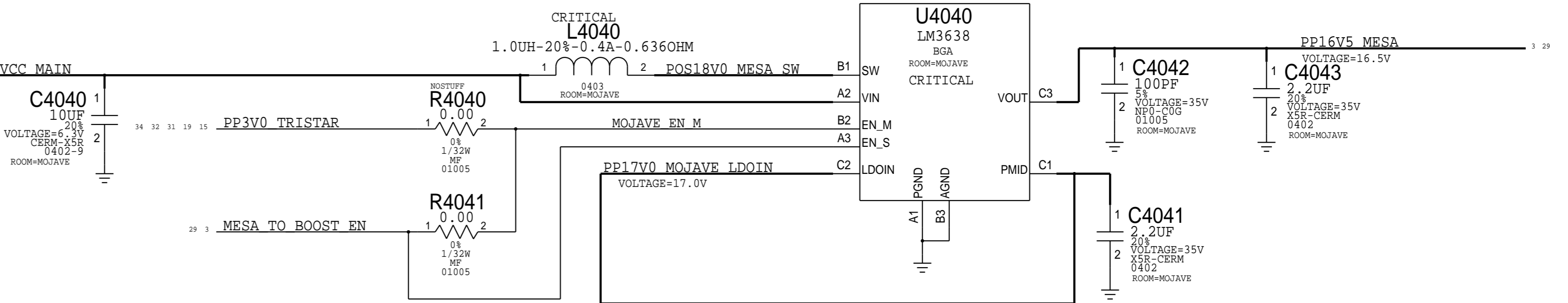
LED BACKLIGHT DRIVERS

APN: 353S00407



MOJAVE MESA BOOST

APN: 353S3978

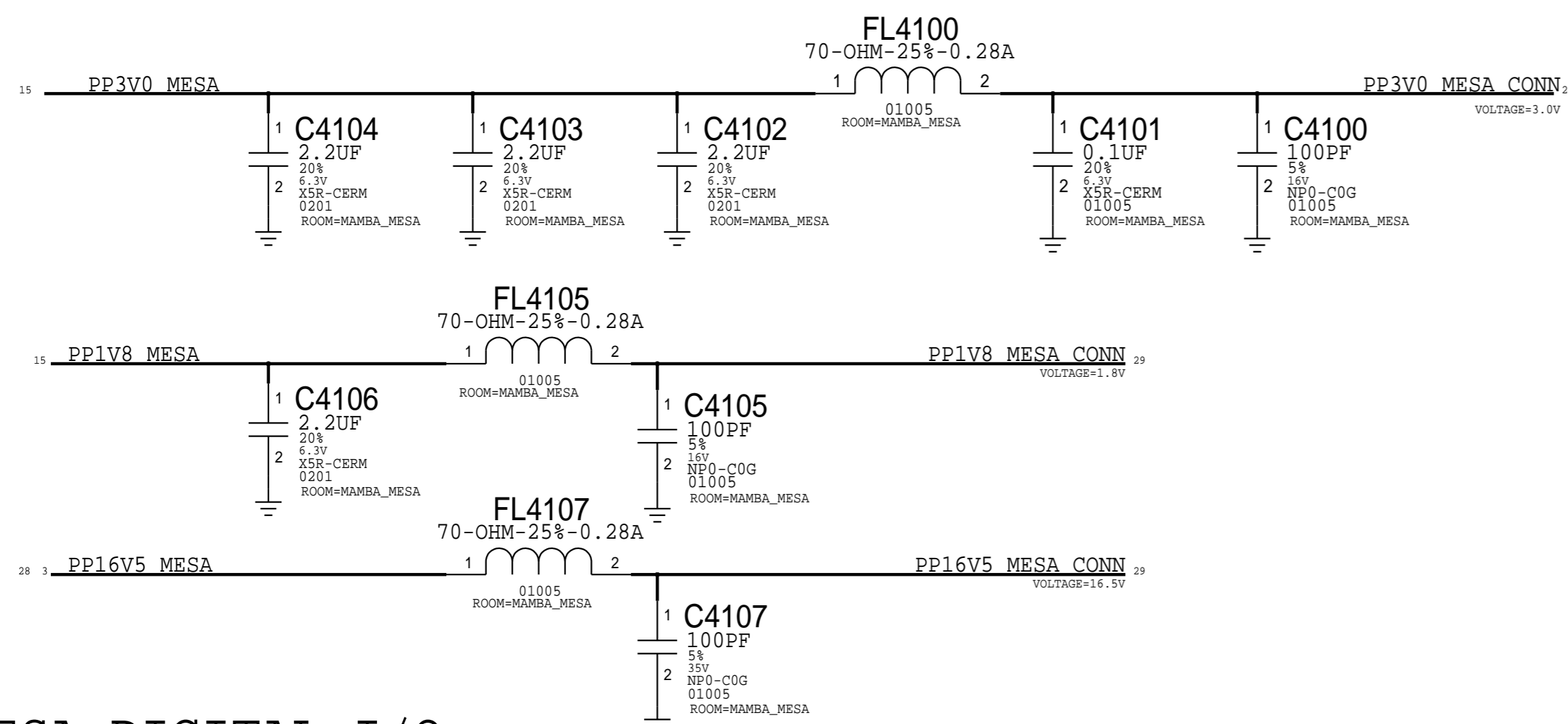


MAMBA & MESA FLEX

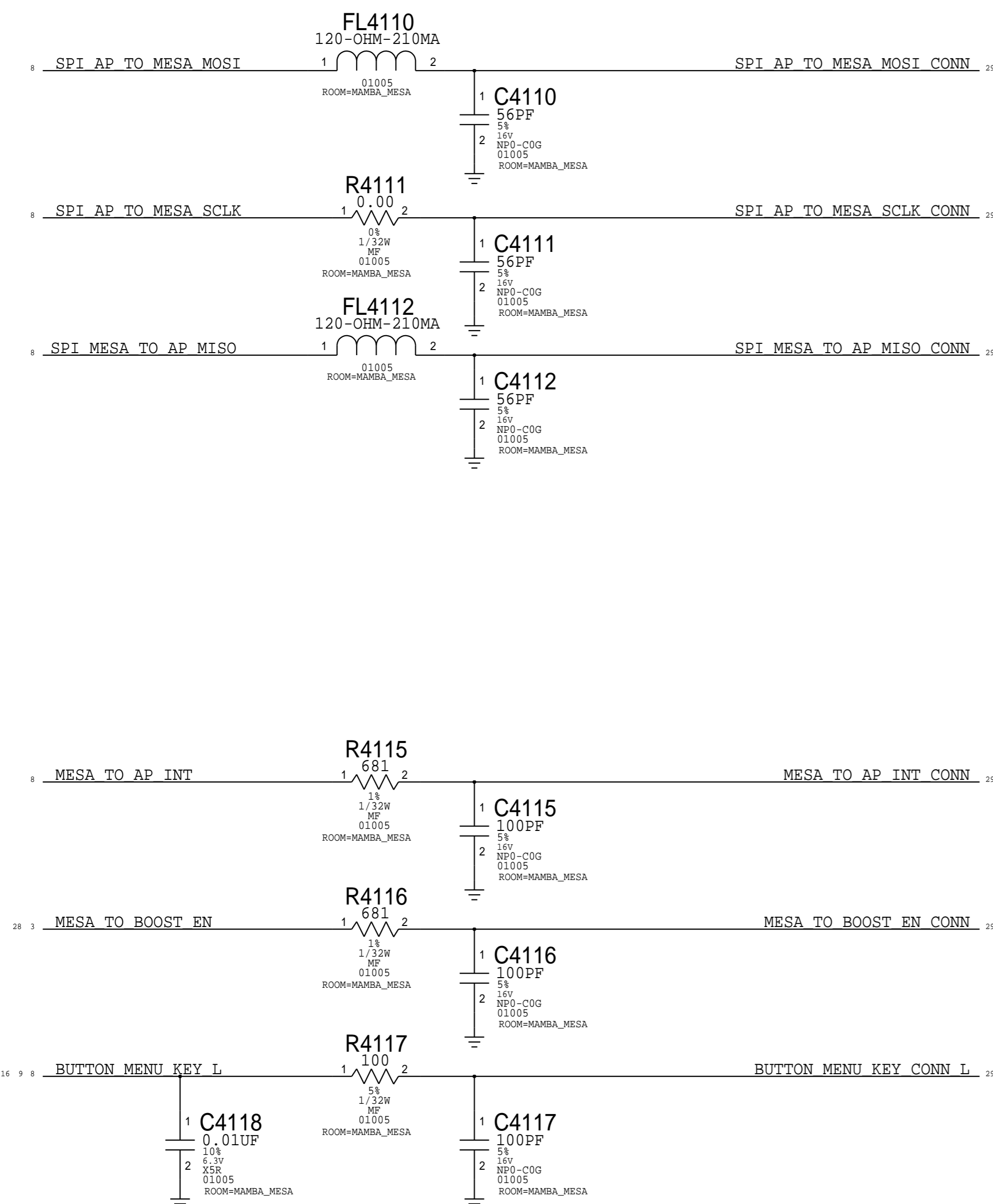
ORB & MESA CONNECTOR

MLB: 516S00056 (RCPT)

MESA POWER

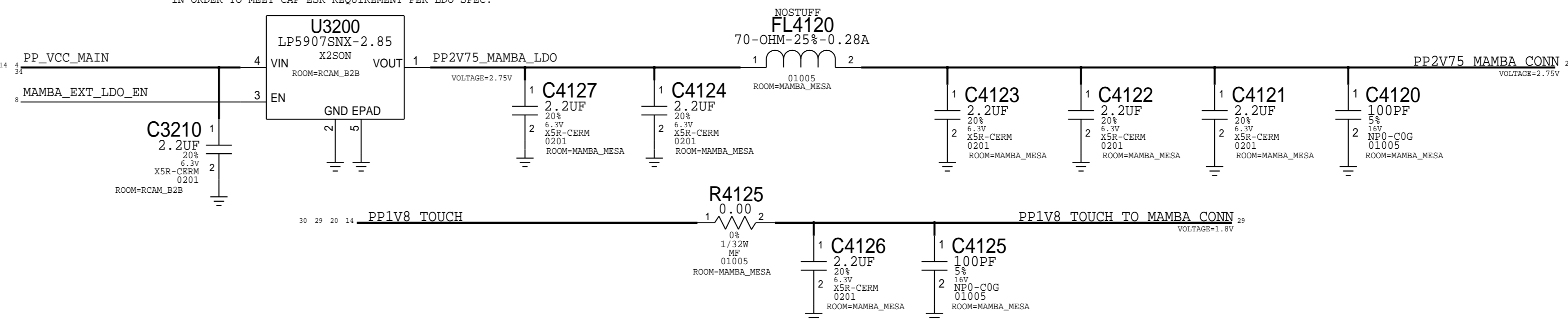


MESA DIGITAL I/O

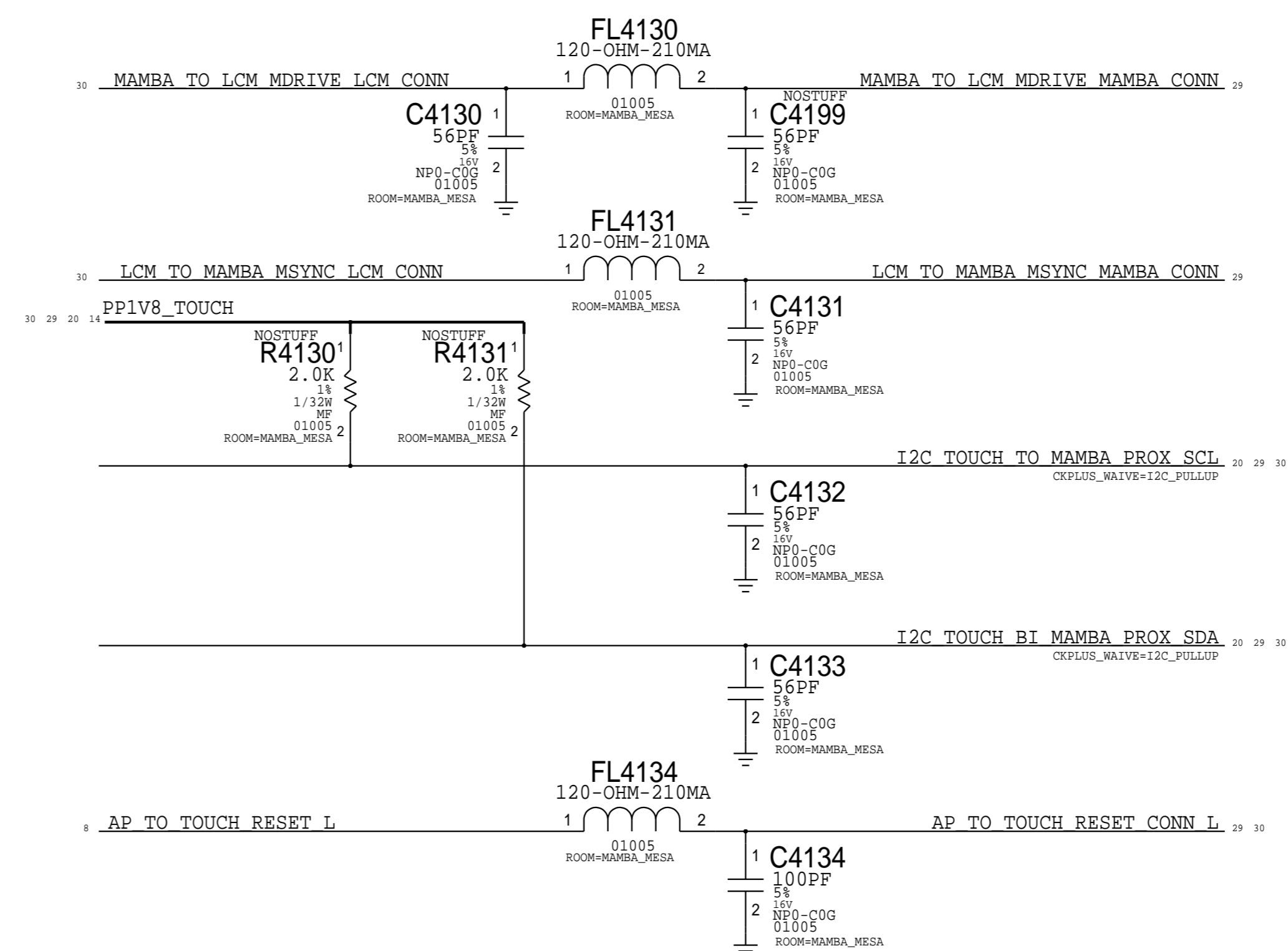


MAMBA POWER

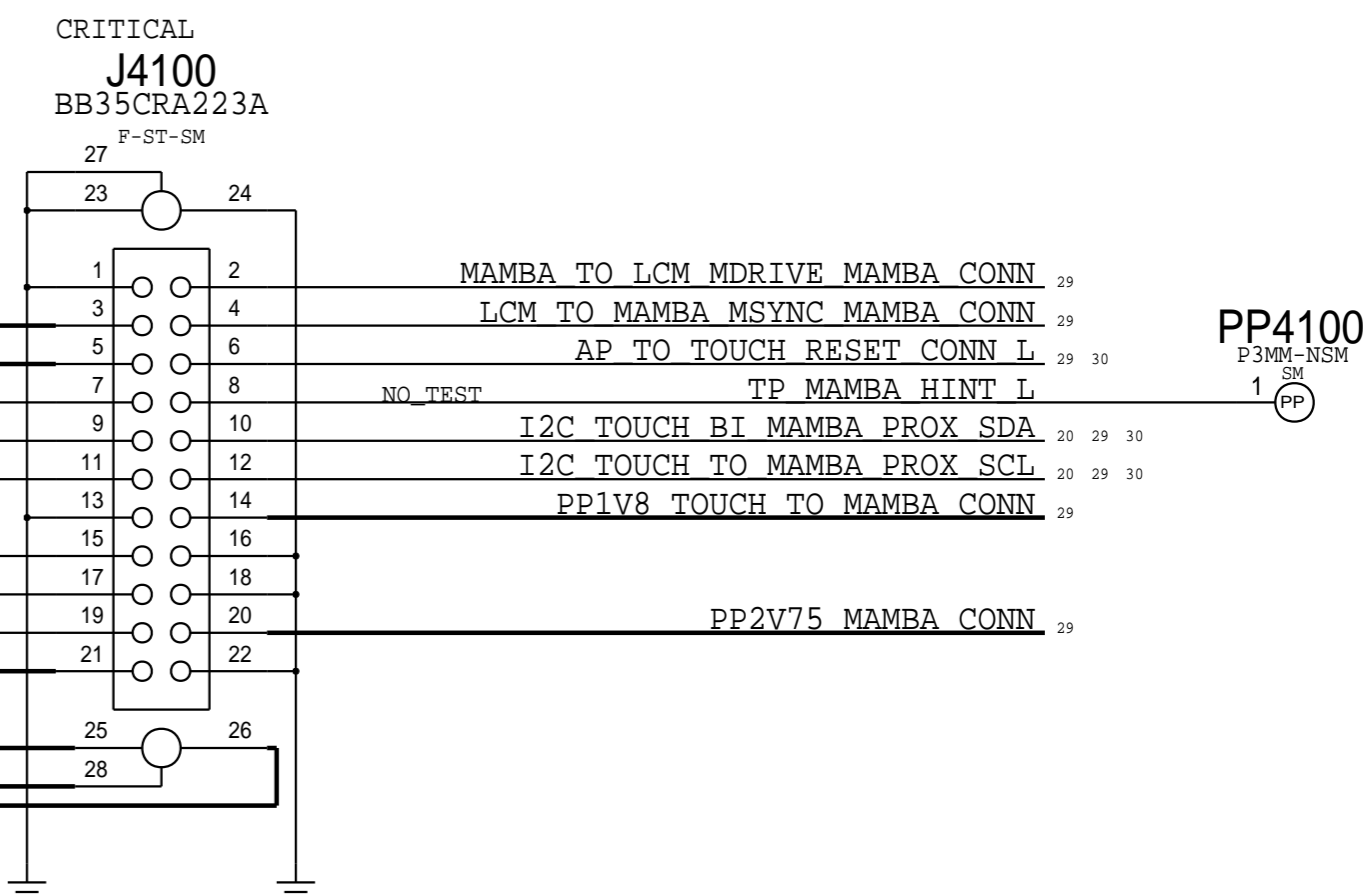
NOTE: OUTPUT IMPEDANCE MUST BE >0.005-OHM
IN ORDER TO MEET CAP ESR REQUIREMENT PER LDO SPEC.

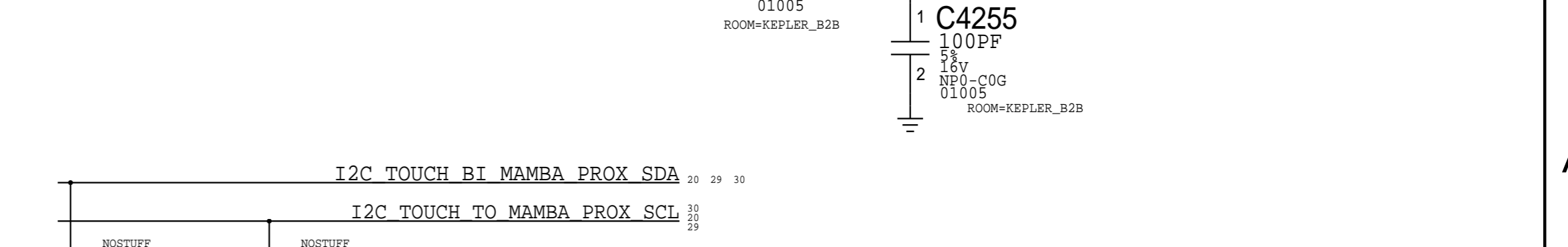
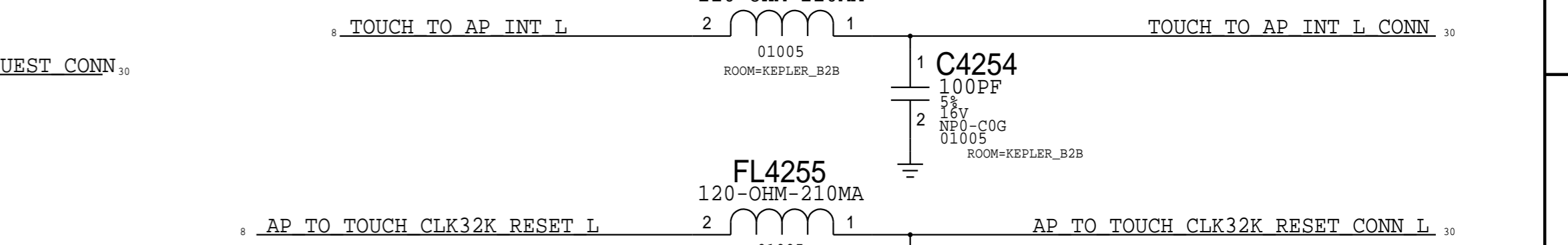
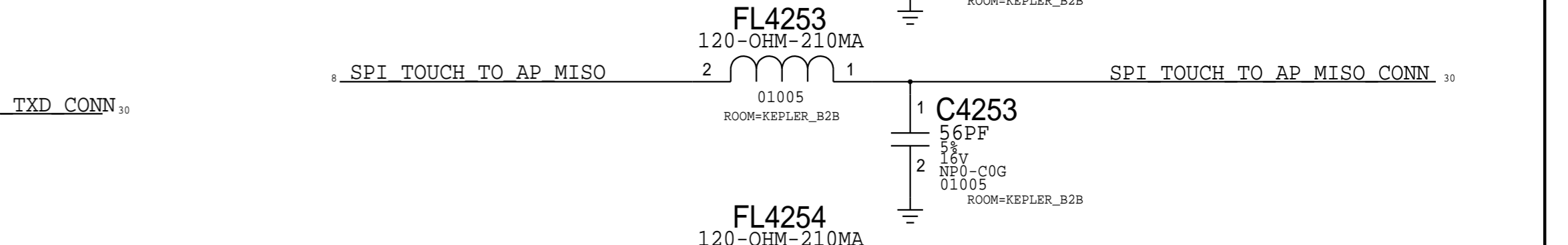
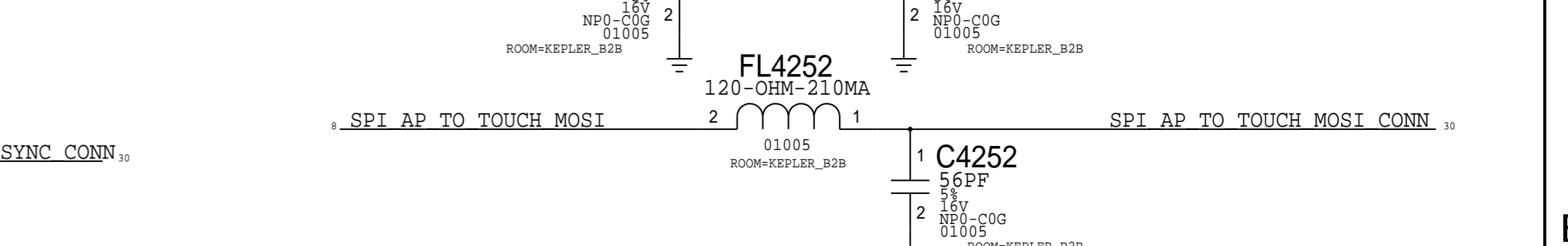
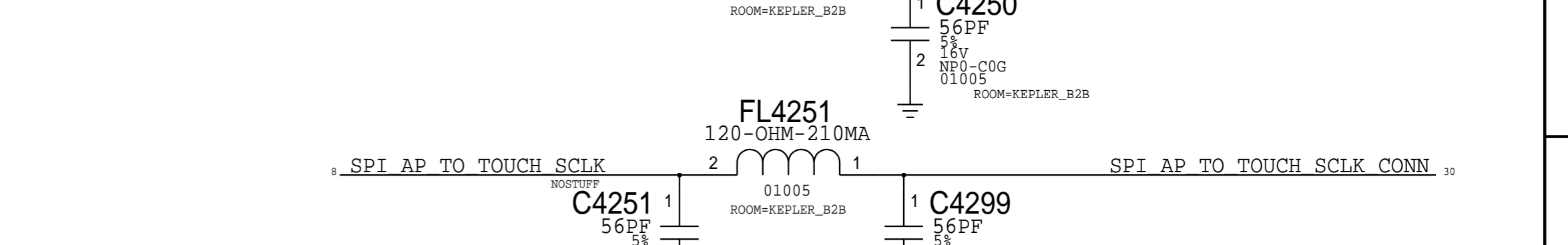
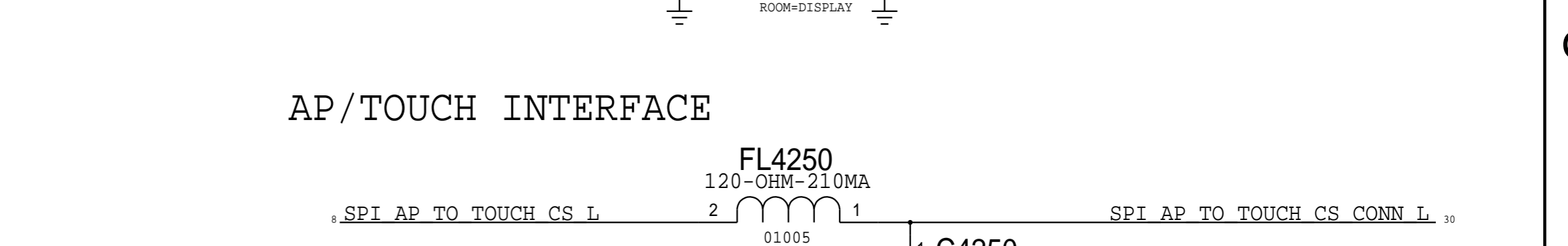
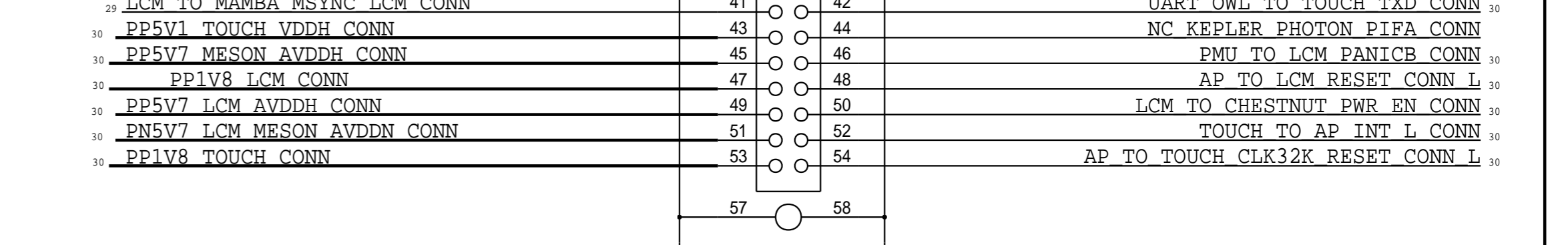
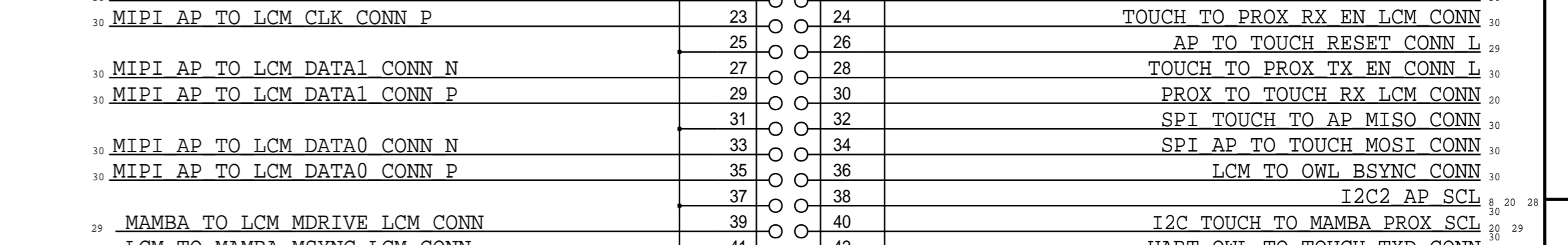
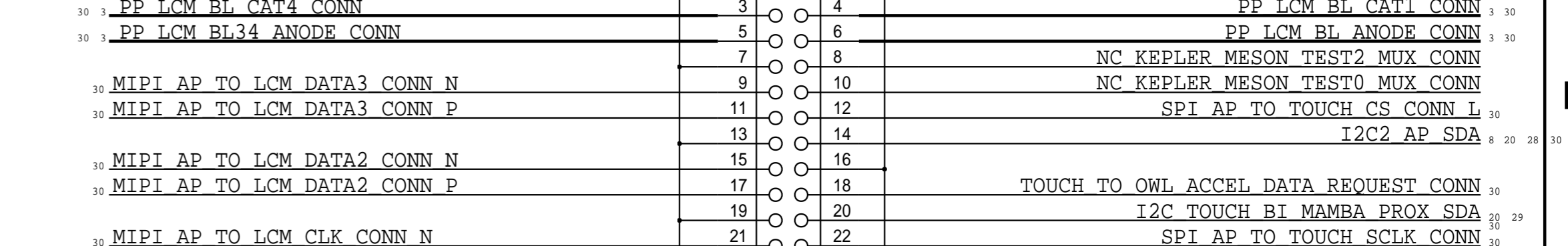
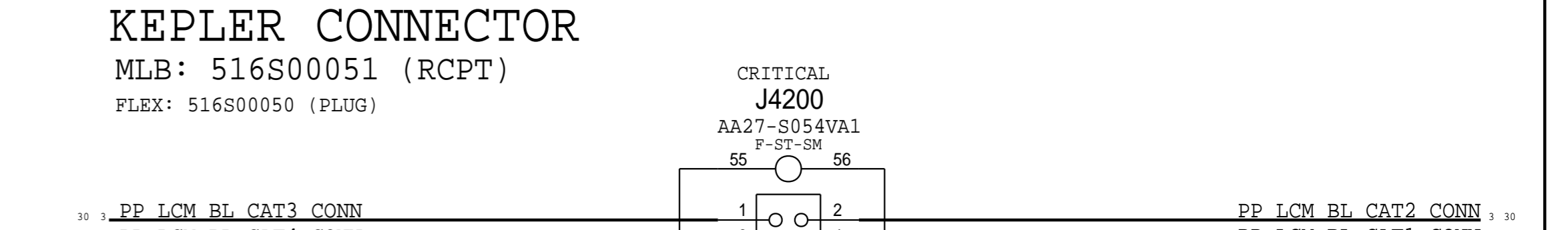
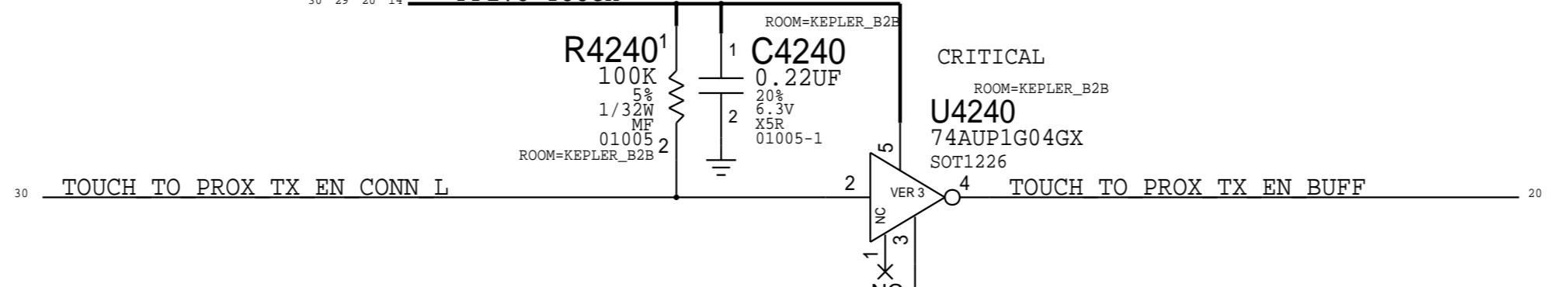
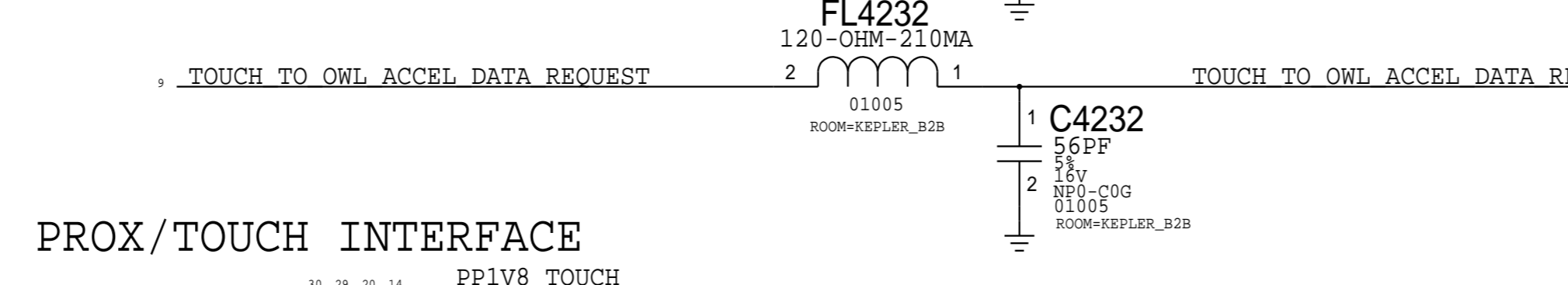
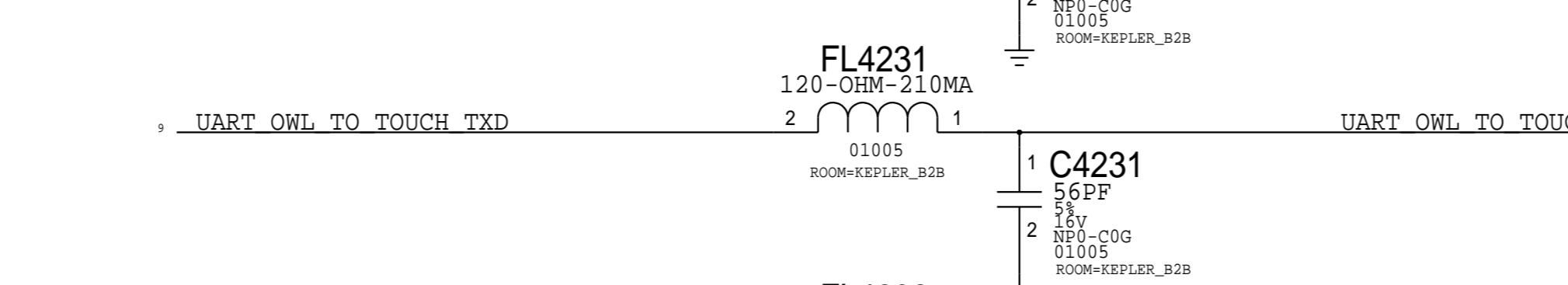
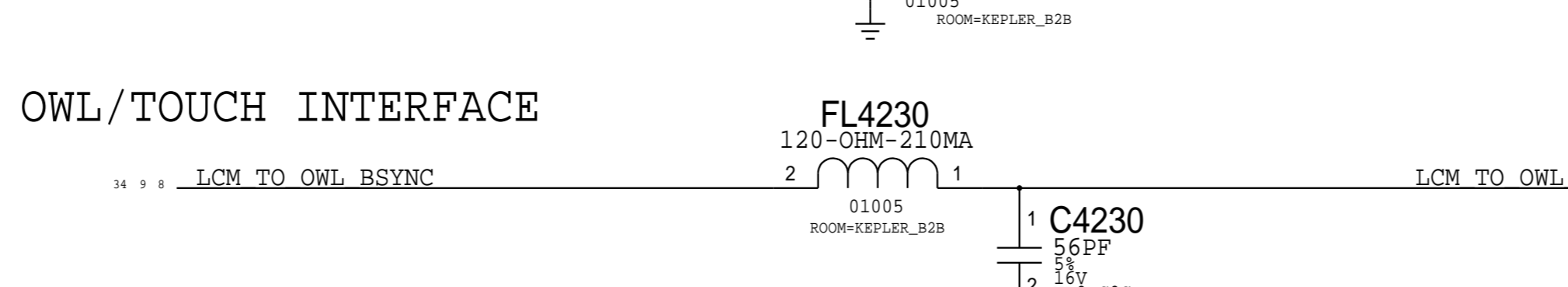
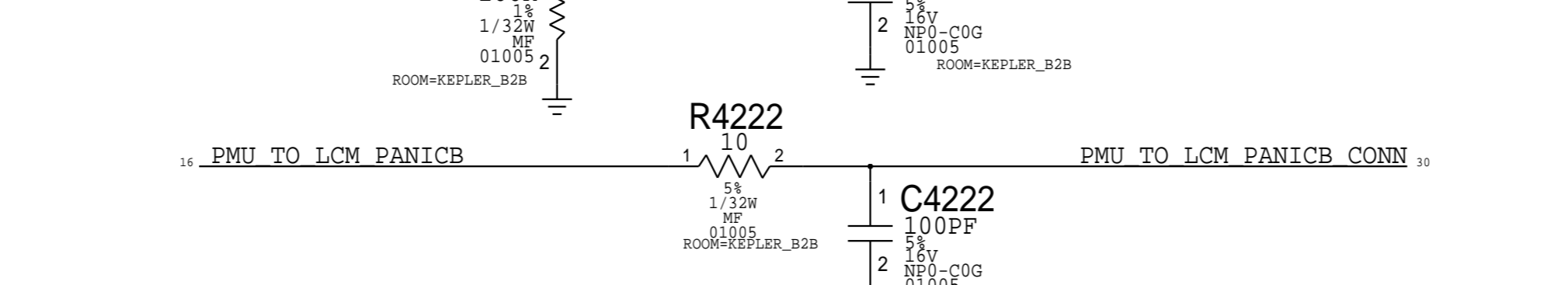
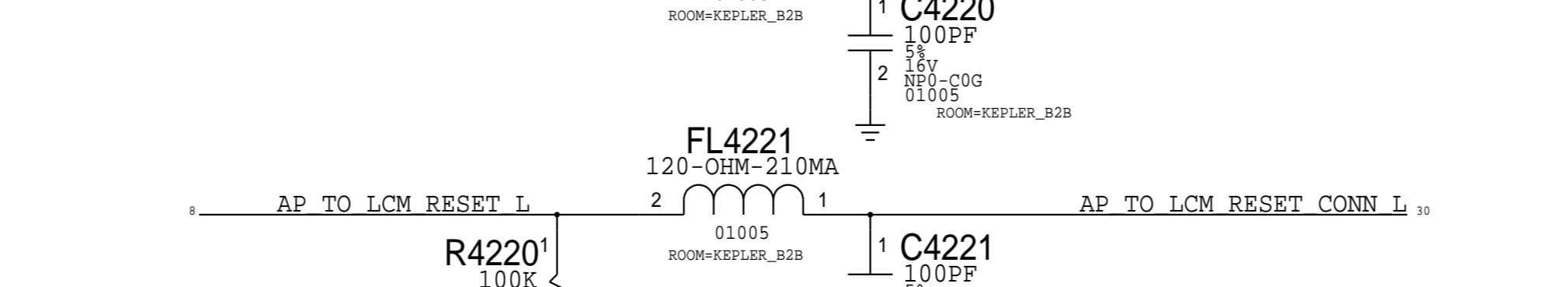
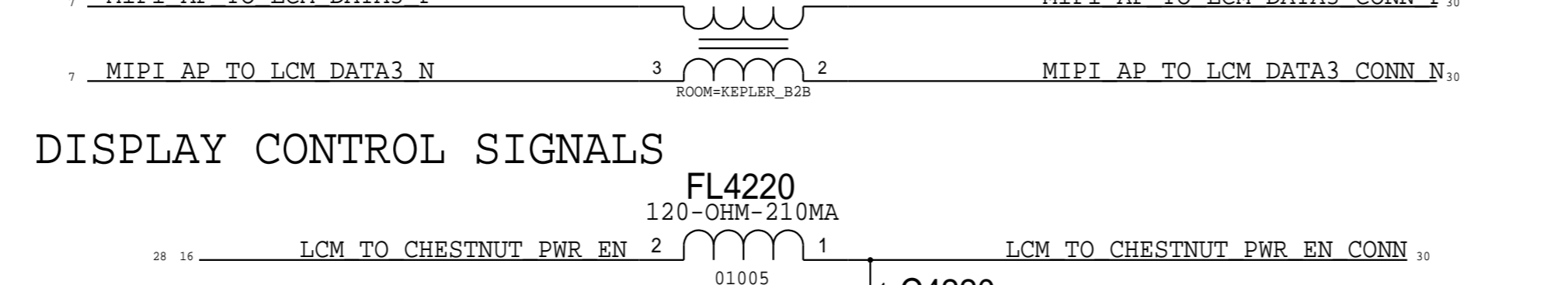
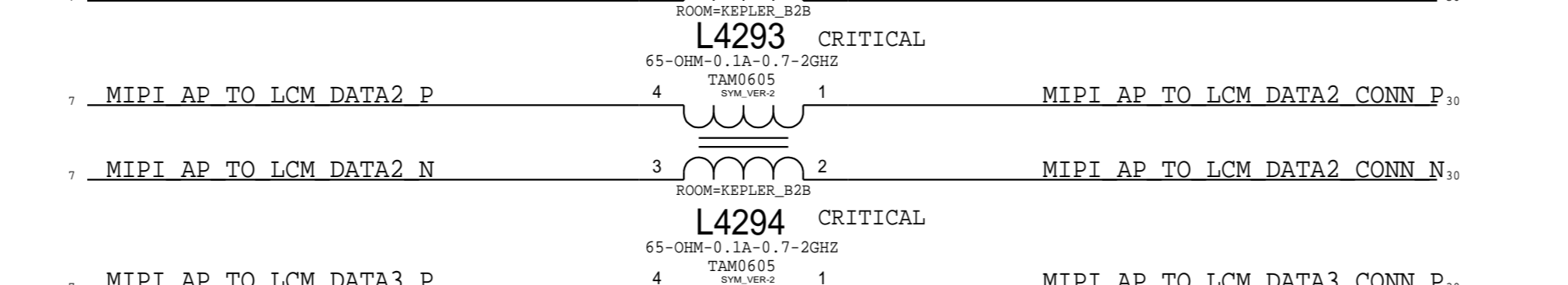
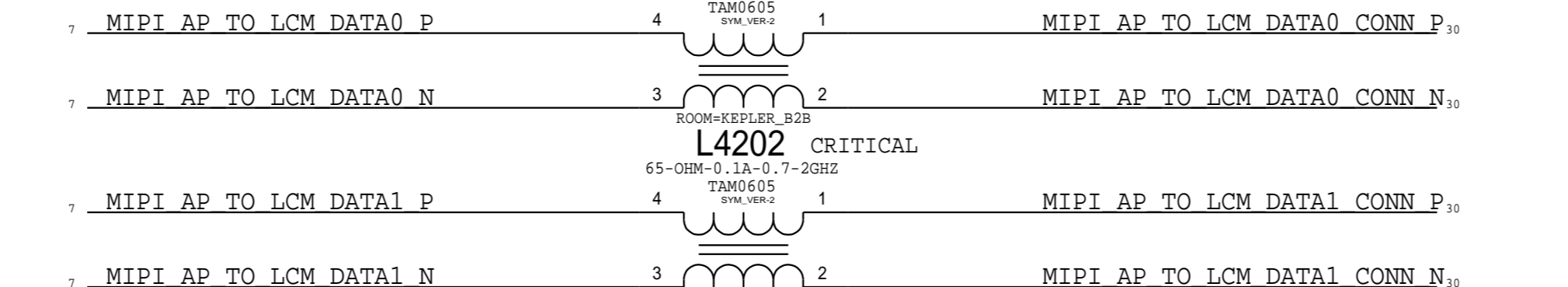
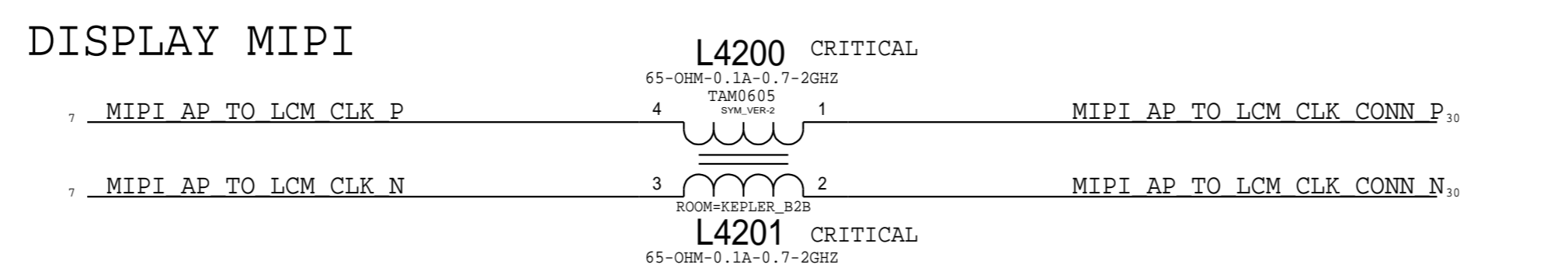
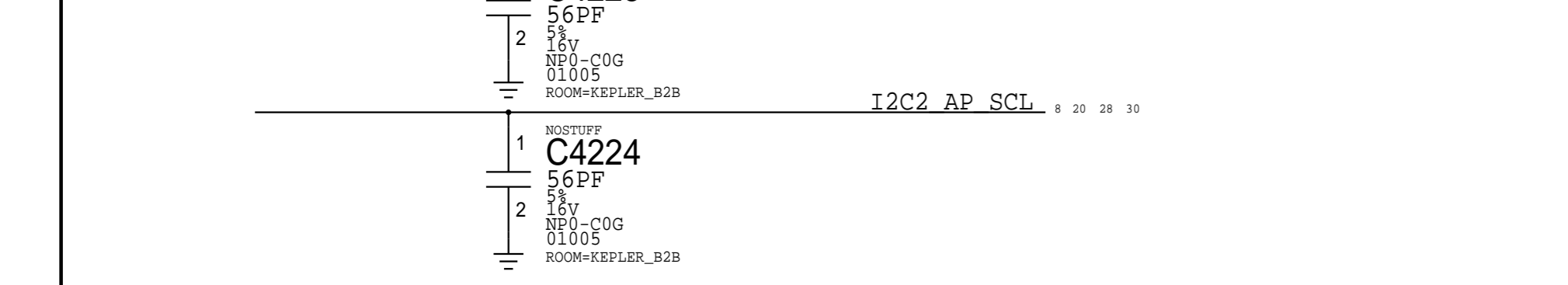
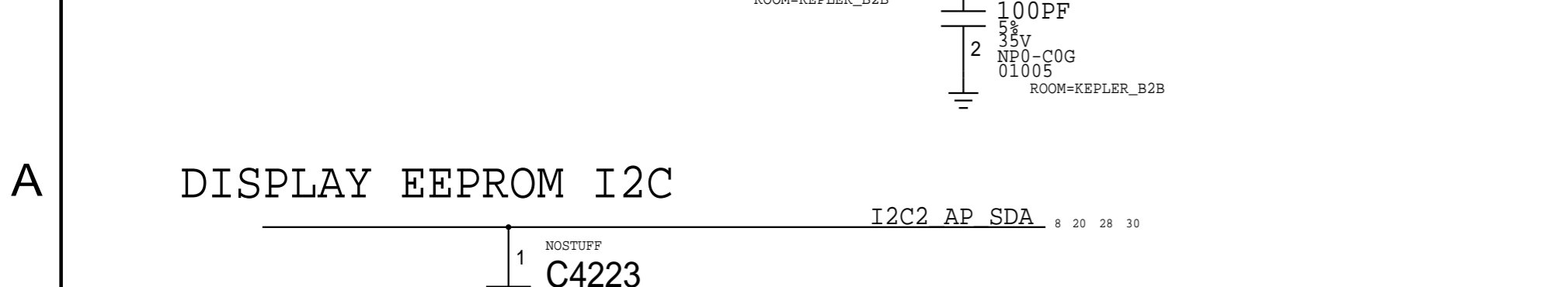
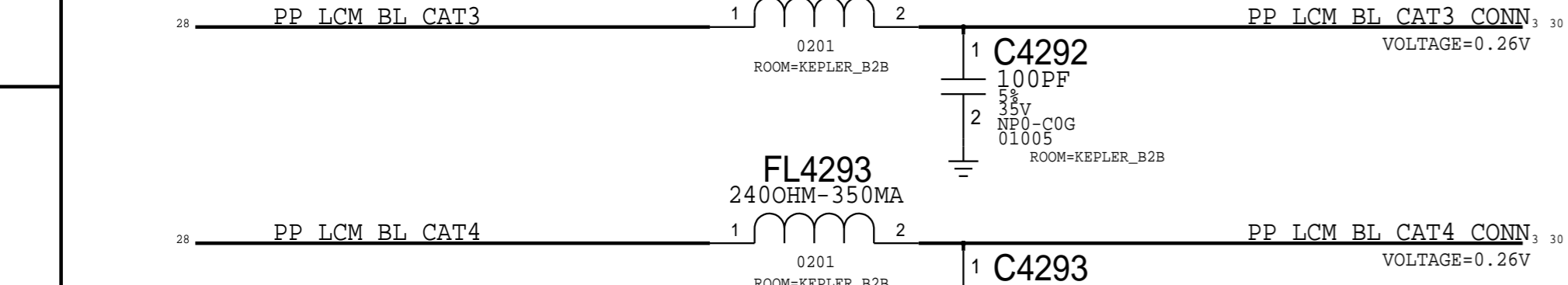
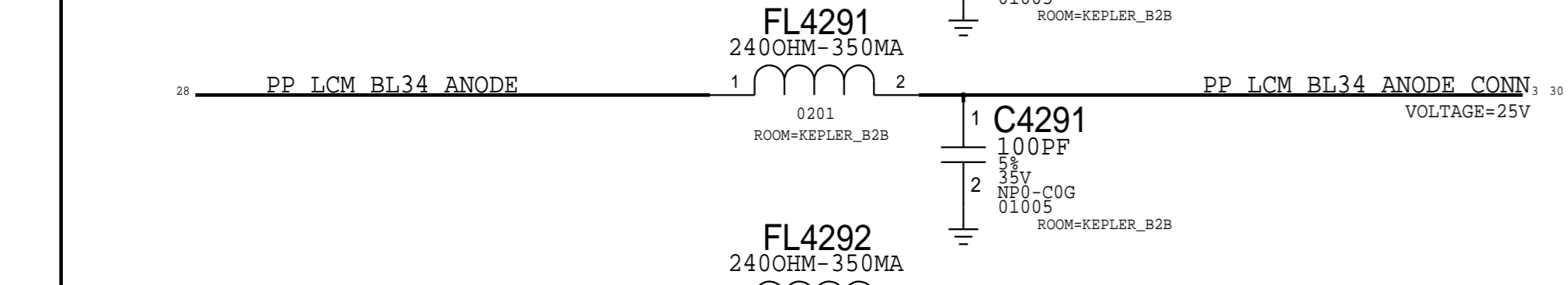
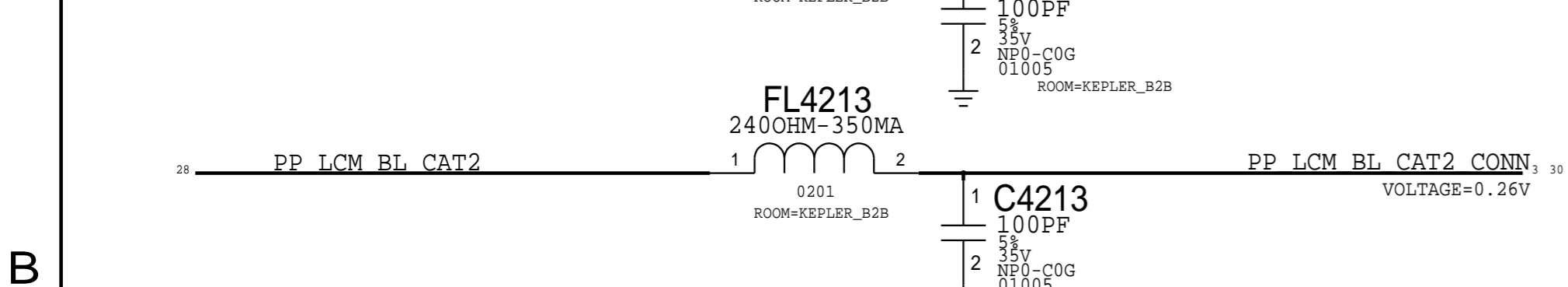
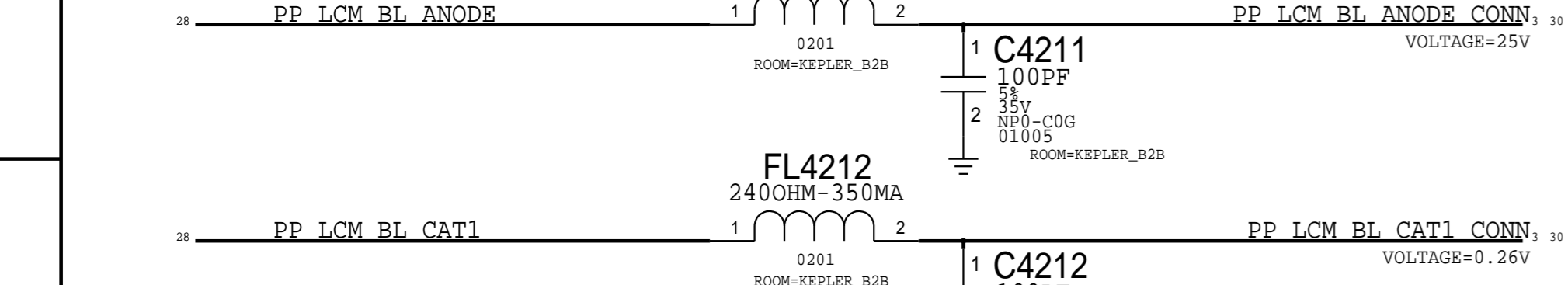
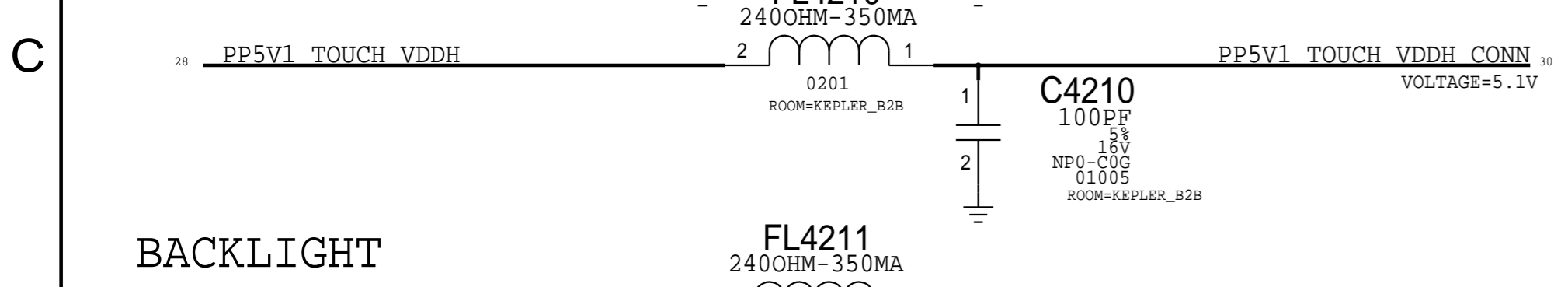
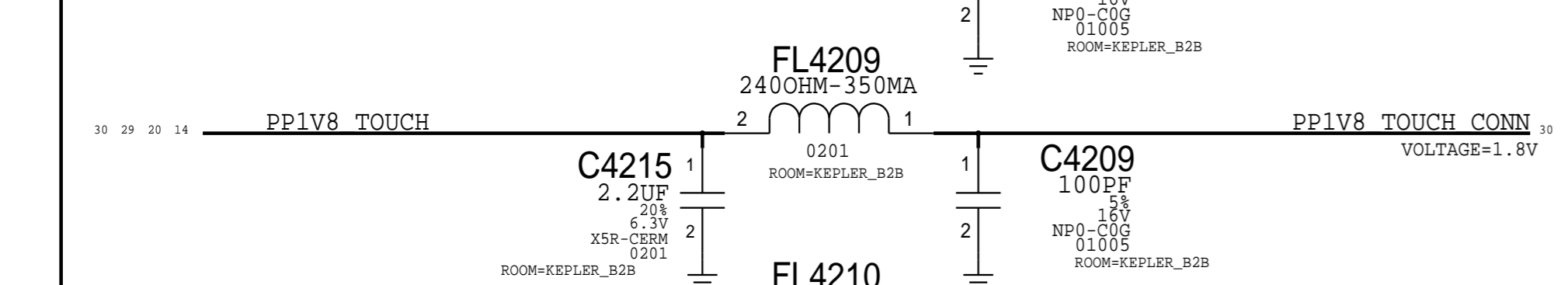
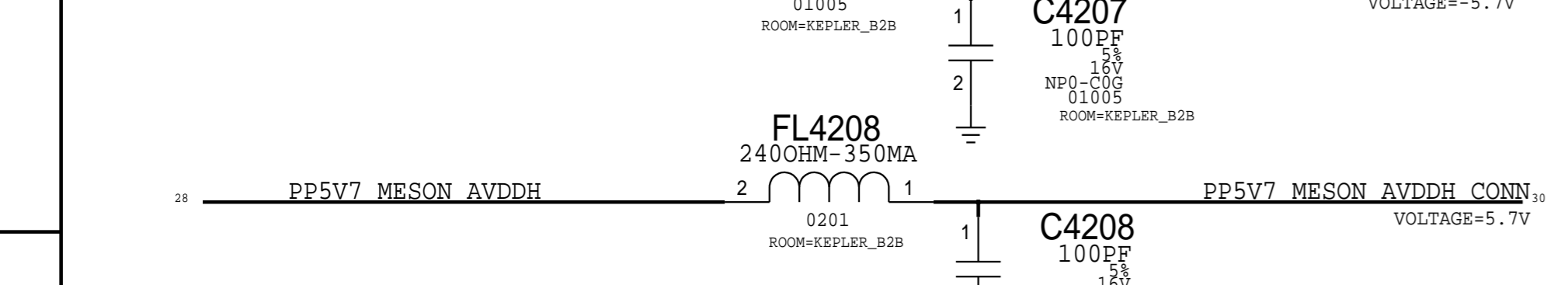
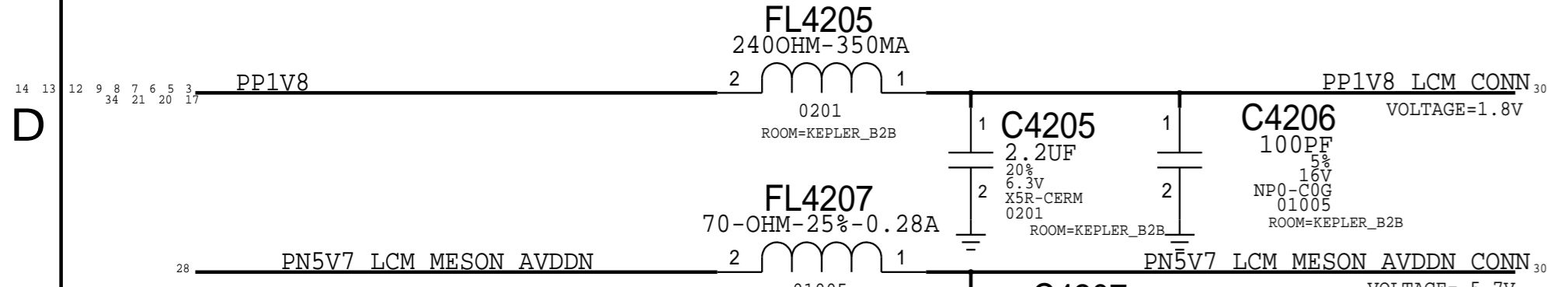
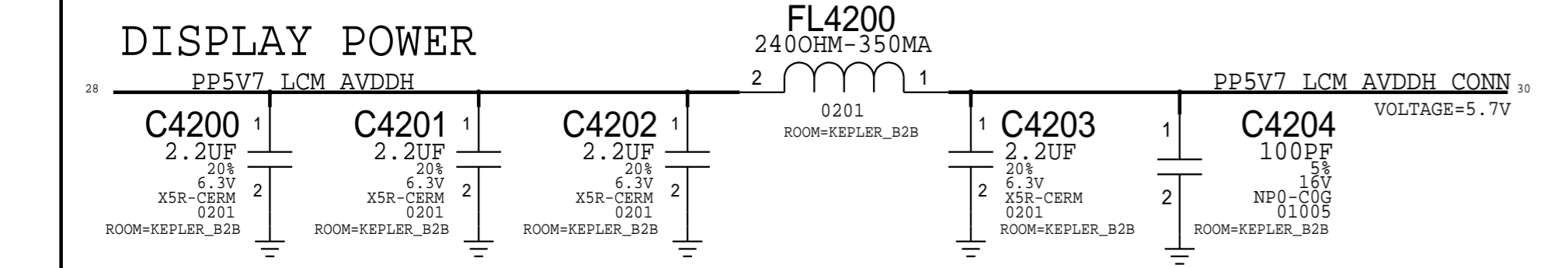


MAMBA DIGITAL I/O



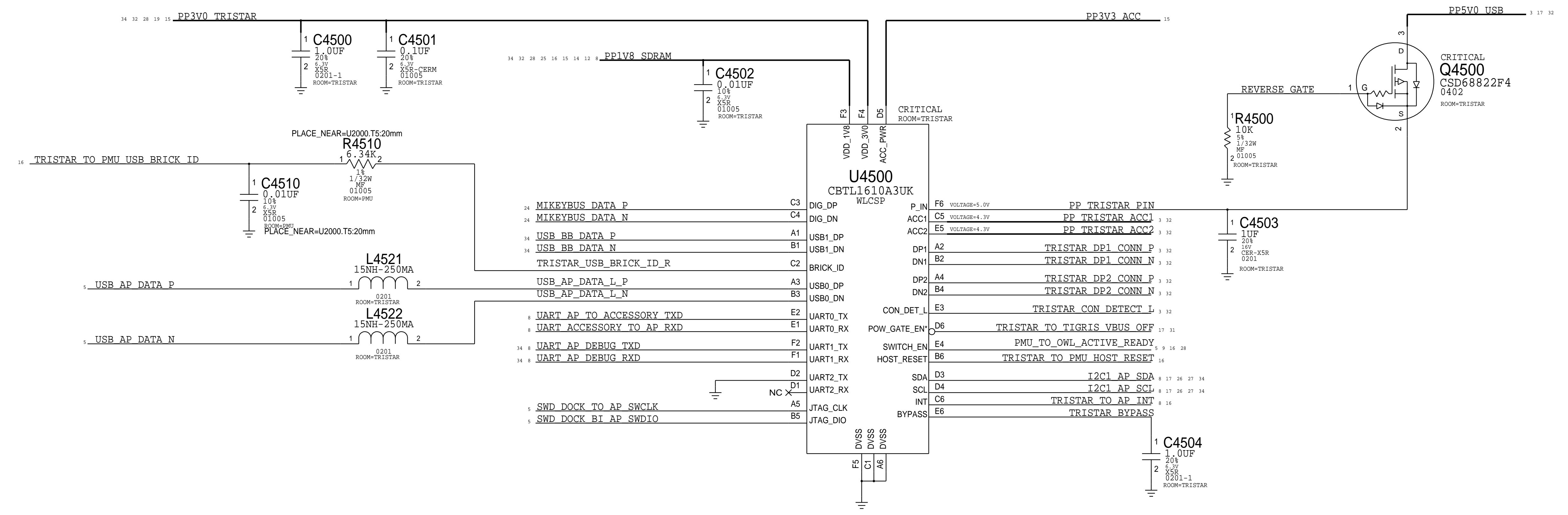
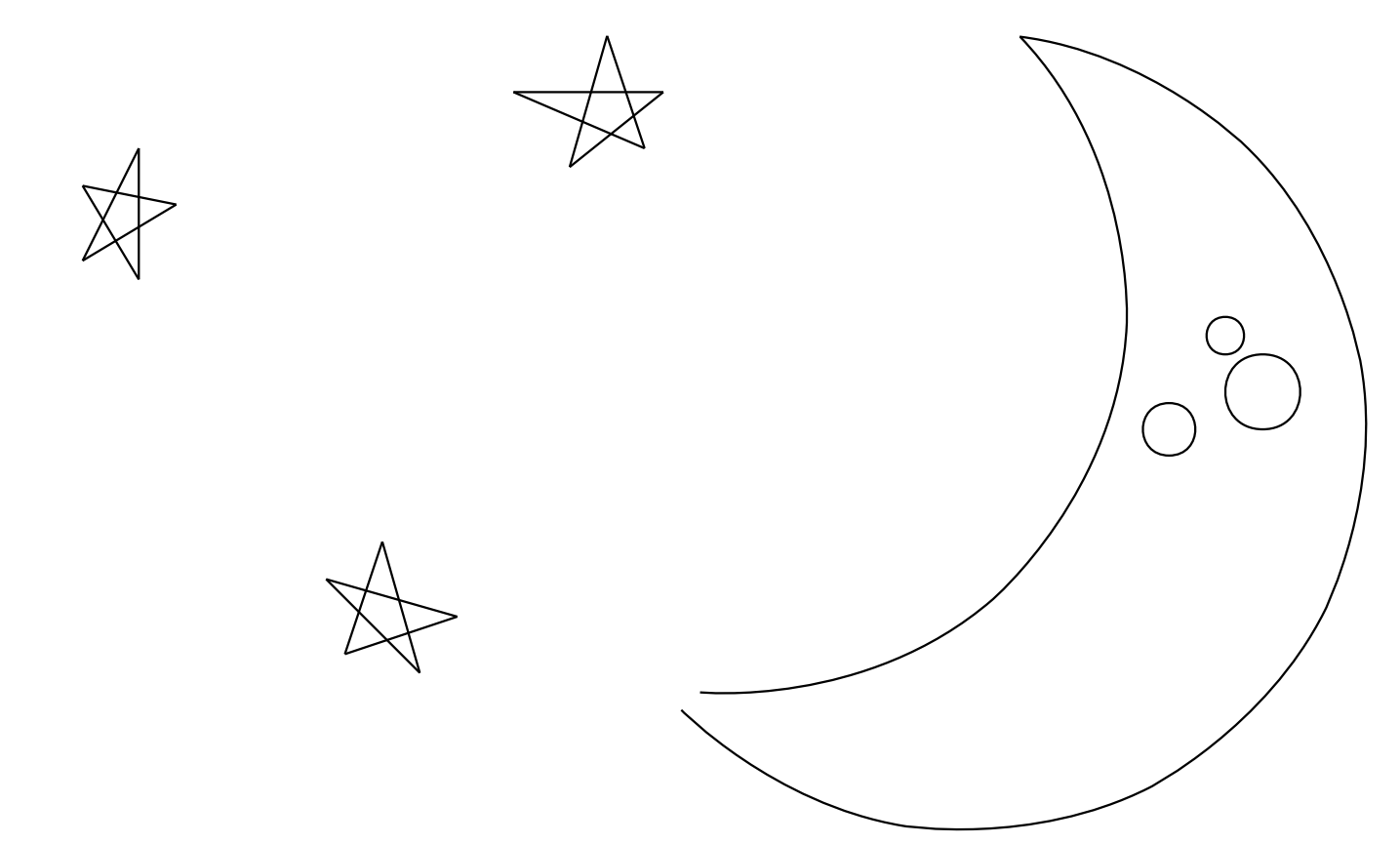
NOTE: MAMBA I2C PULL-UPS TO PPIV8 TOUCH INSIDE KEPLER
ADDING R4130, R4131 AS OPTION FOR TWEAKING VALUE





TRISTAR 2

APN: 343S0695

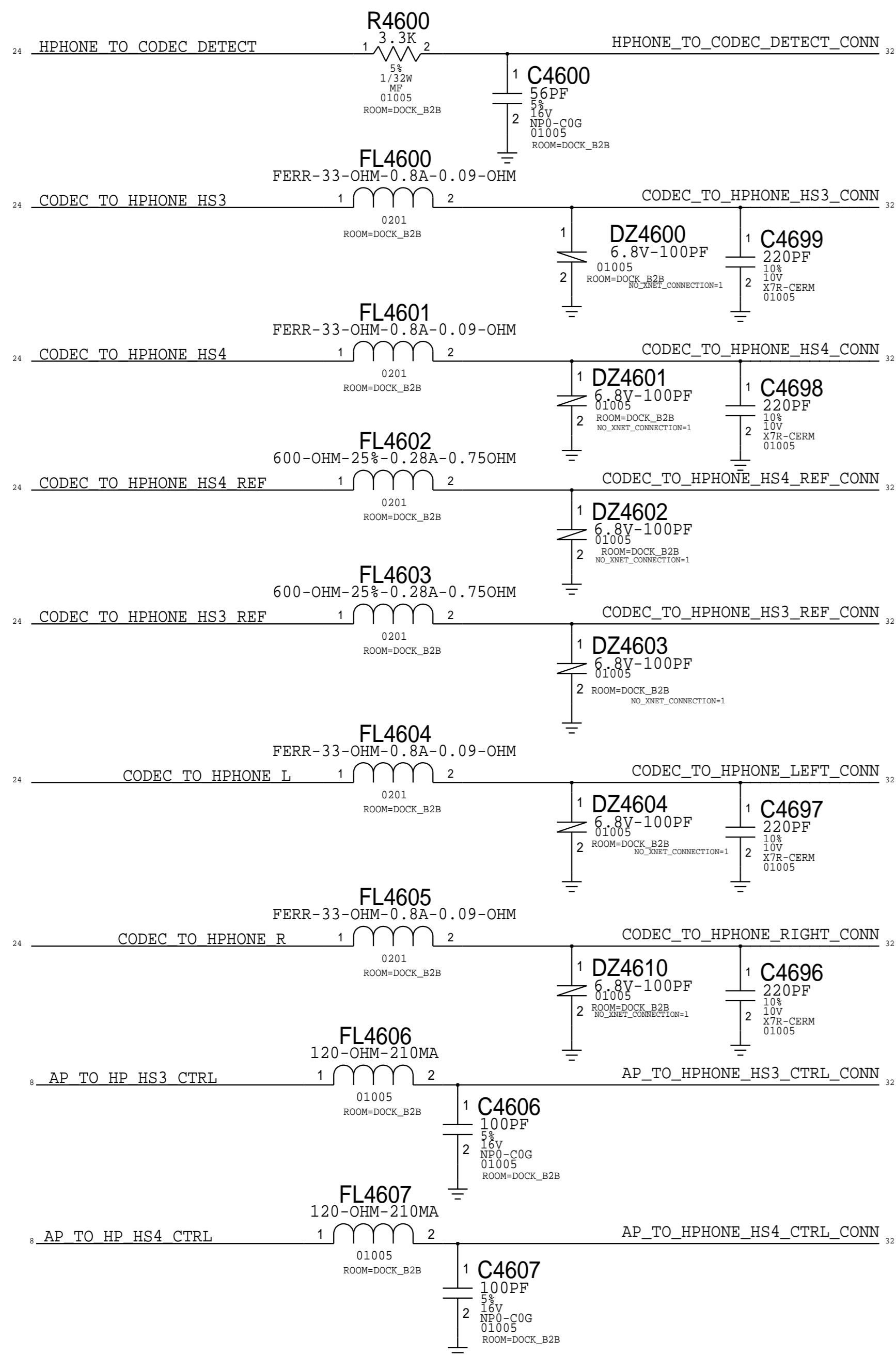


PROBE POINTS

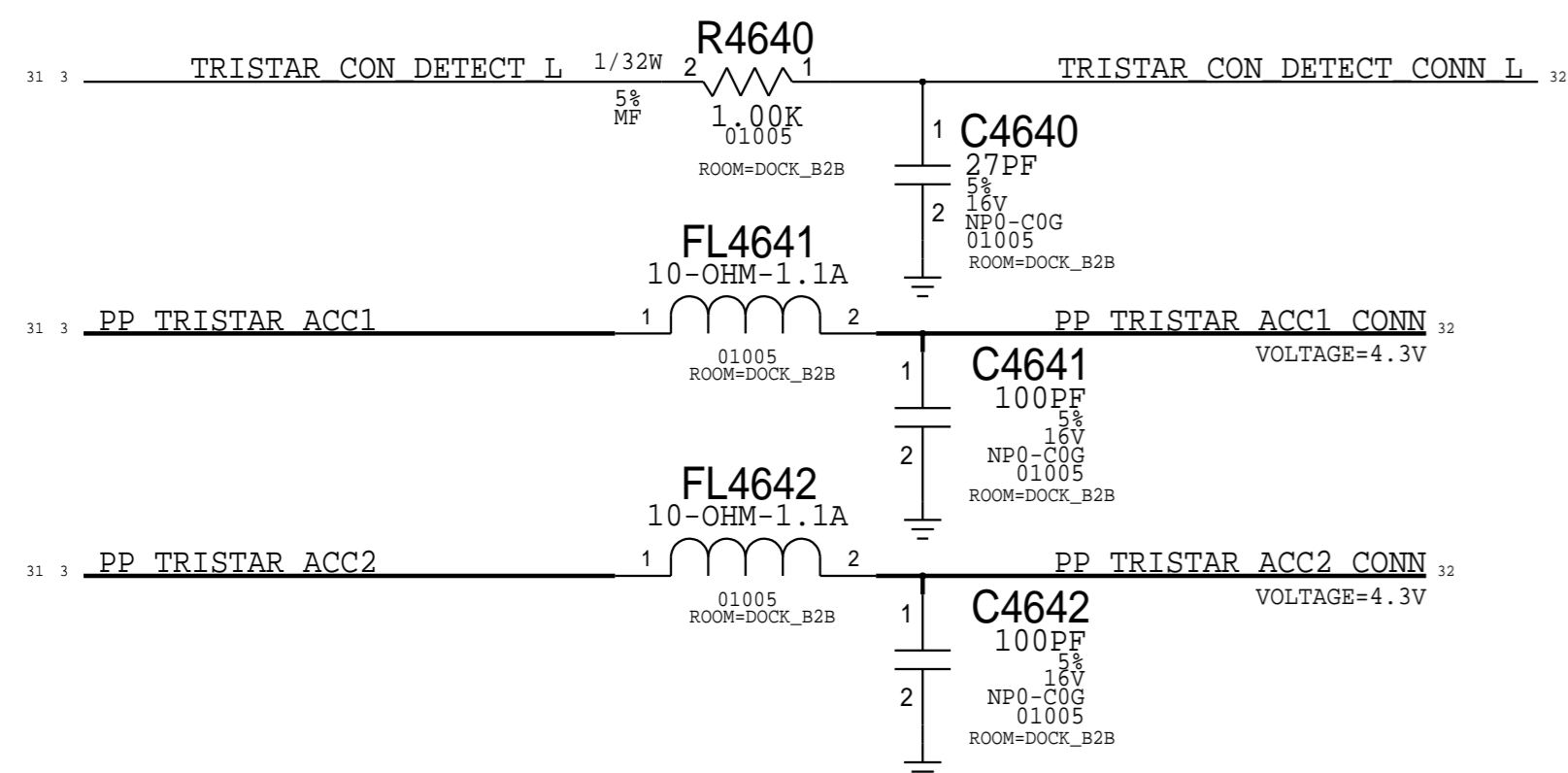


DOCK FLEX CONNECTOR

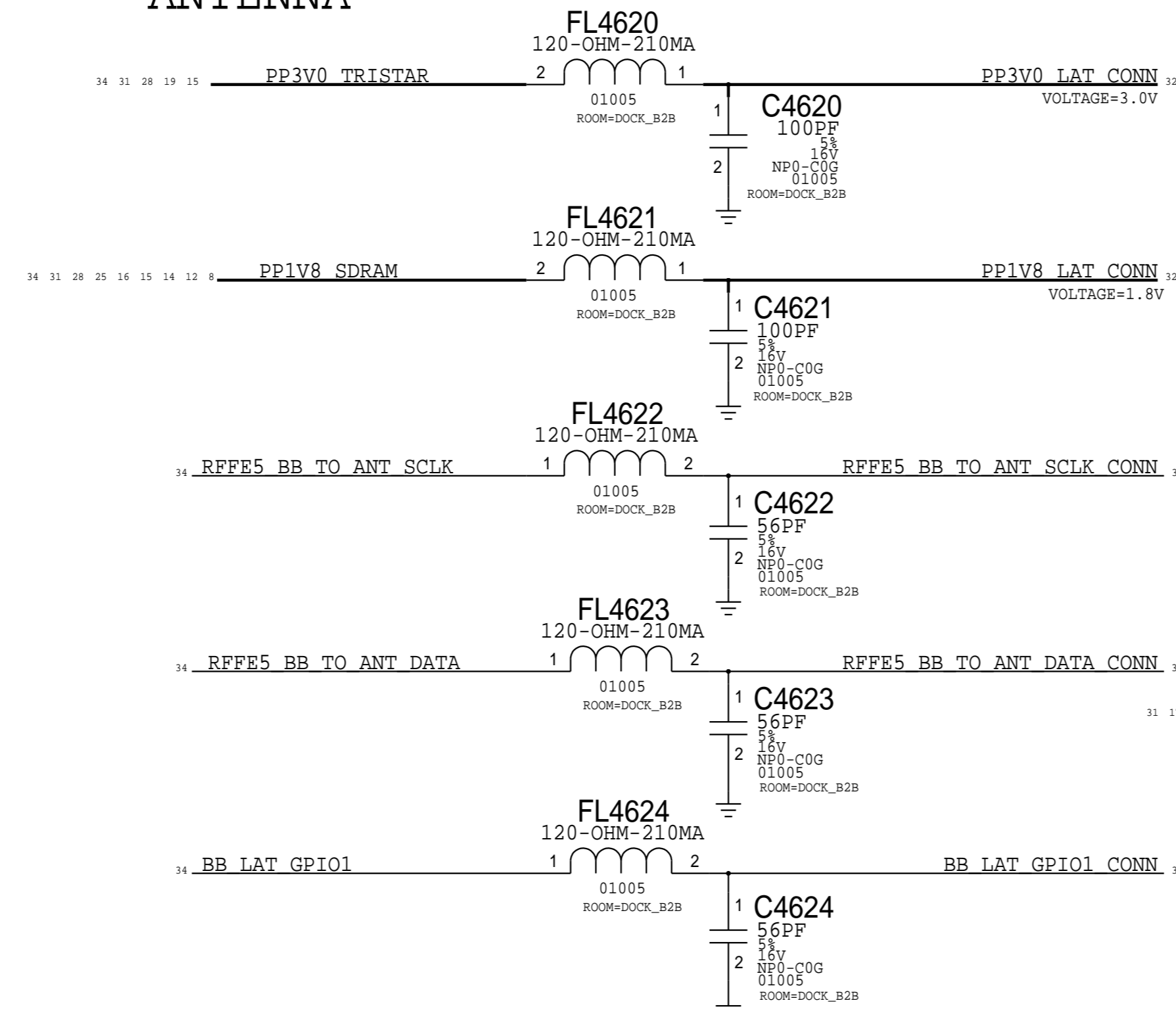
AUDIO JACK



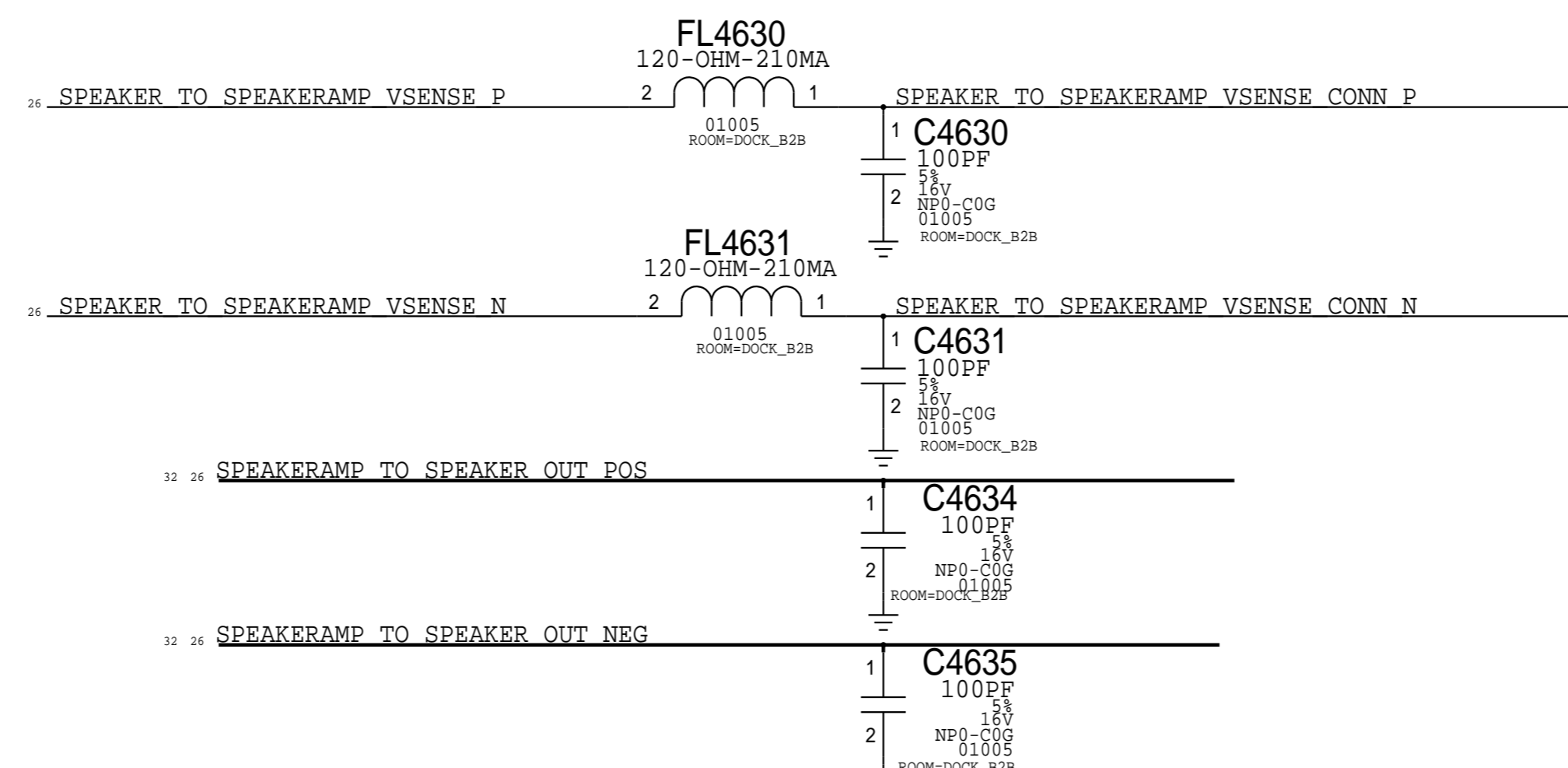
TRISTAR



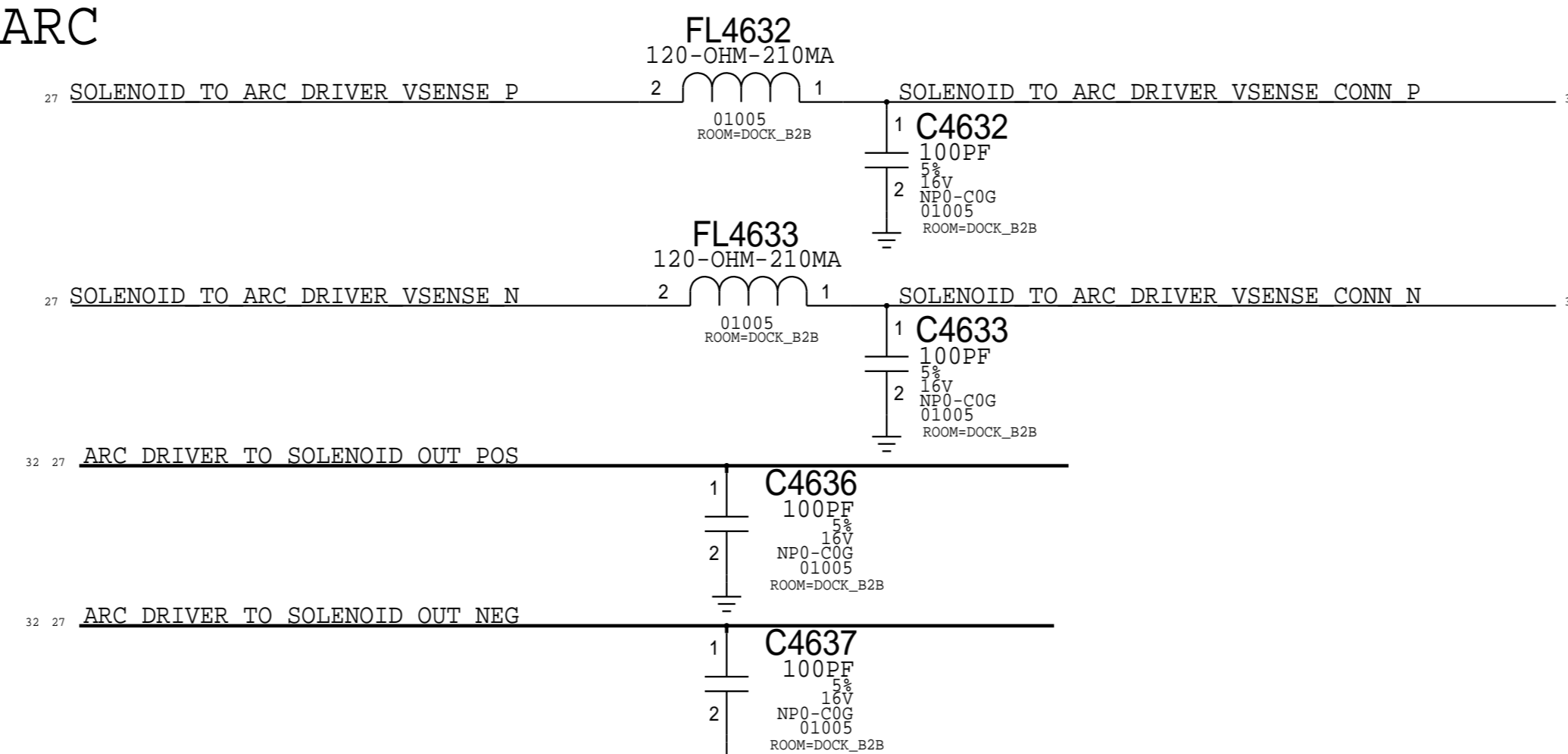
ANTENNA



SPEAKER



ARC

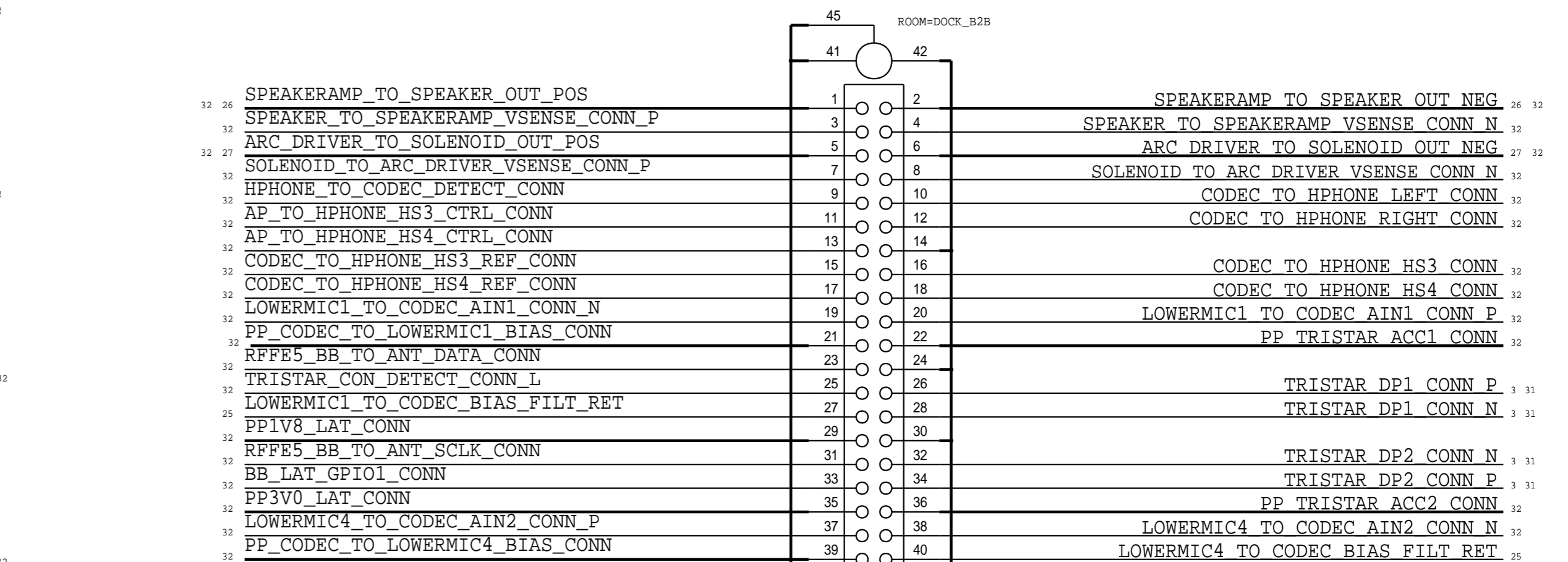


DOCK FLEX CONNECTOR

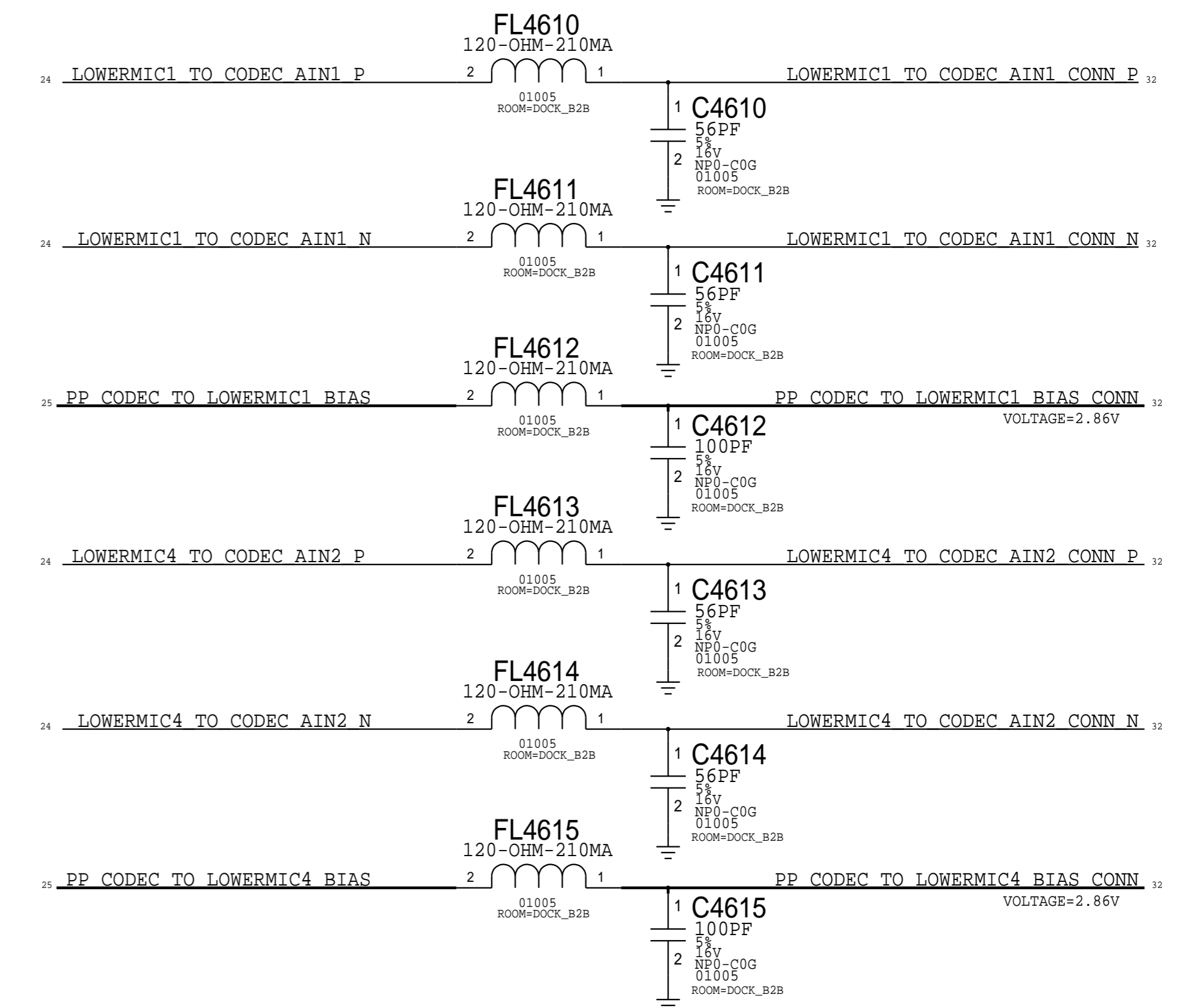
MLB: 516S00033 (RCPT)

FLEX: 516S00034 (PLUG)

CRITICAL
J4600
24-5859-04-XXX-829
F-ST-SM



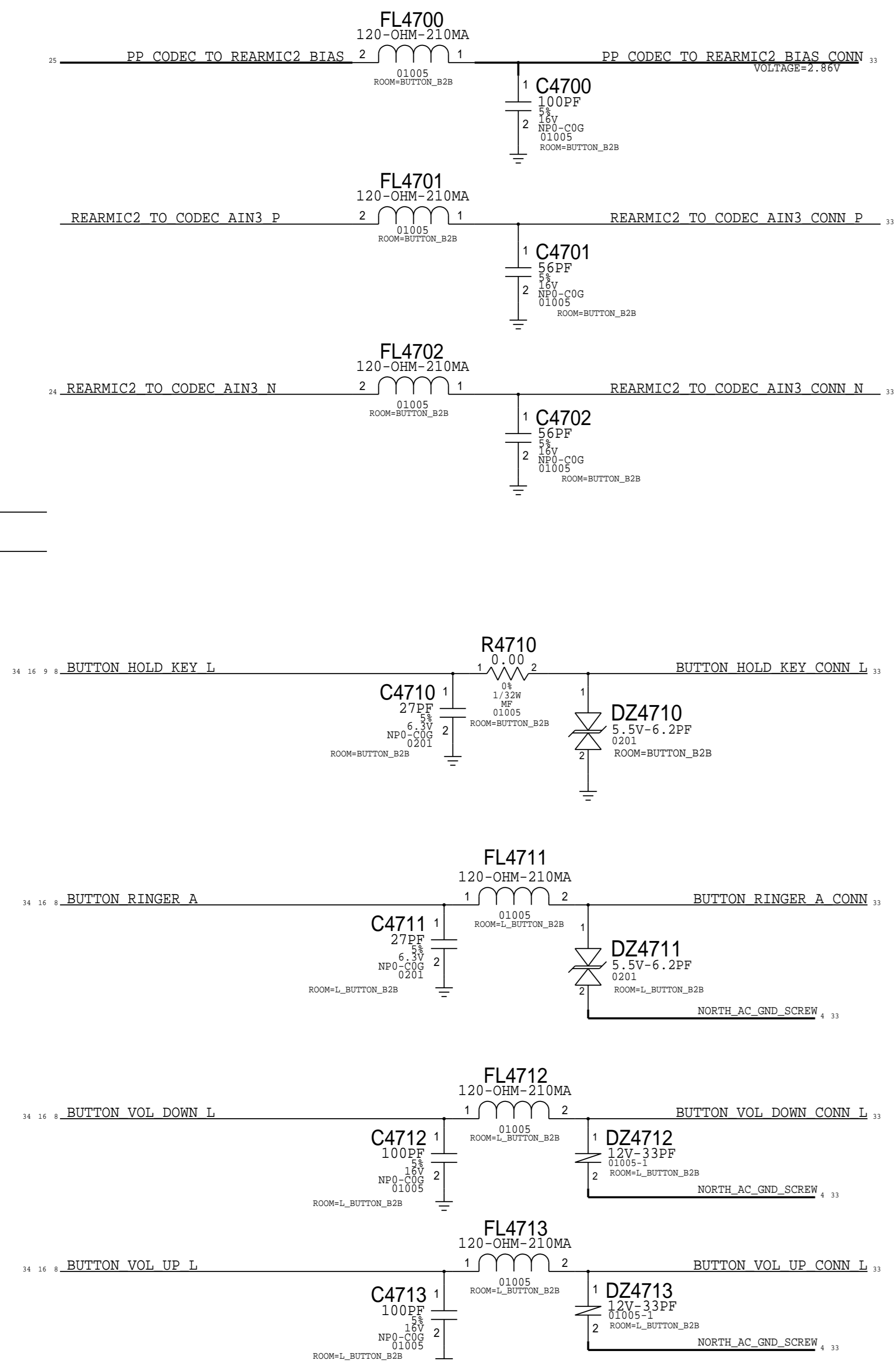
LOWER MIC1/4



BUTTON FLEX

MIC2
ANC REF MIC

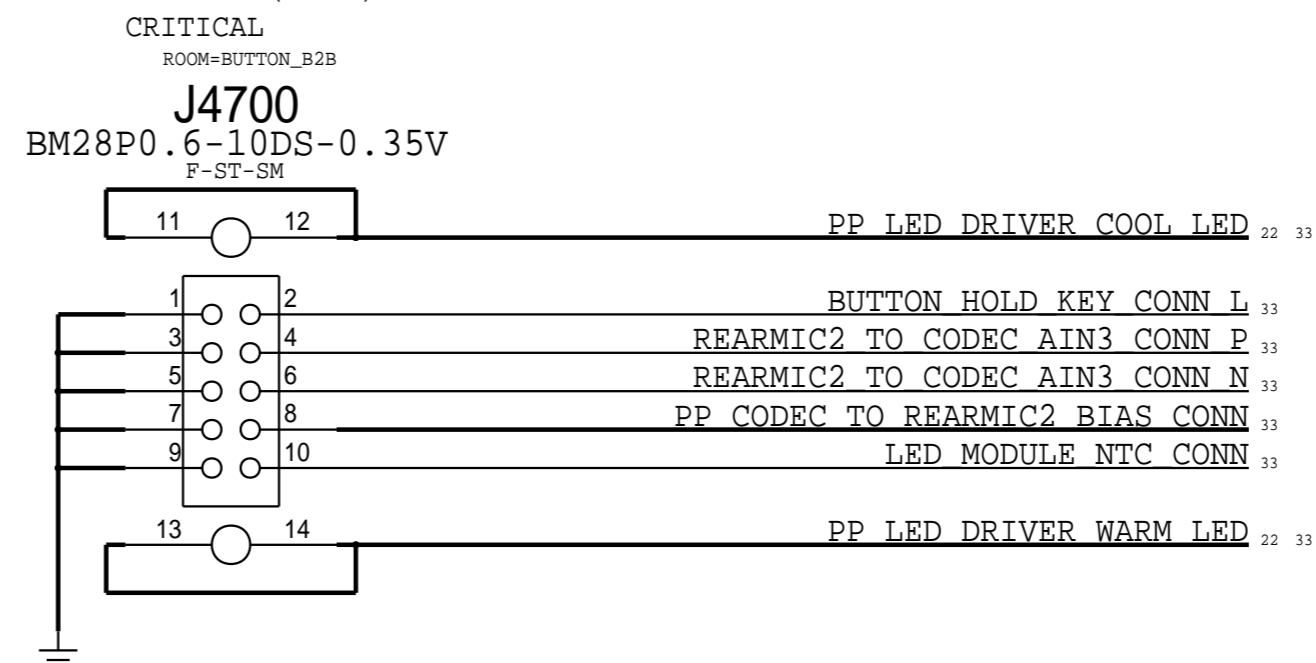
BUTTONS:
HOLD
RINGER
VOL UP/DOWN



RIGHT BUTTON FLEX CONNECTOR

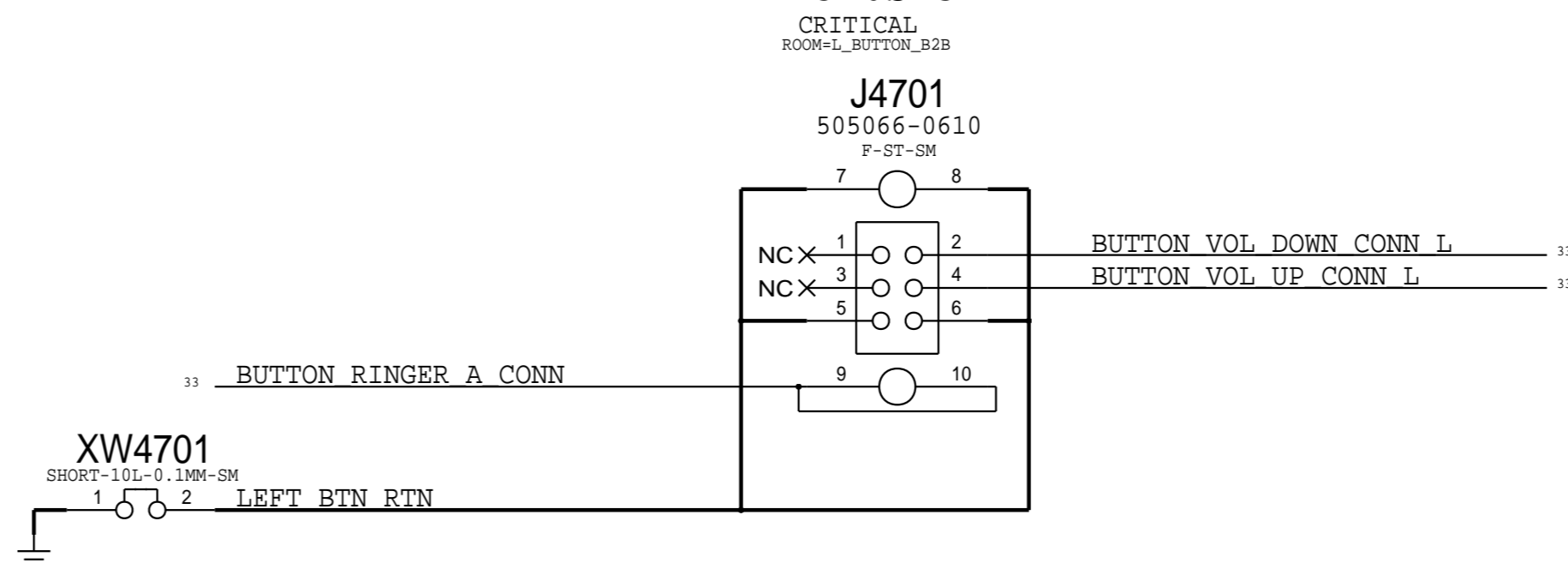
MLB: 516S00047 (RCPT)

FLEX: 516S00046 (PLUG)



LEFT BUTTON FLEX CONNECTOR

MLB: 516S1317



STROBE:
WARM LED
COOL LED
MODULE NTC

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ECN	DESCRIPTION OF REVISION	CK APPD	DATE
4	0003980769	ENGINEERING RELEASED		2015-03-27

N66 RADIO_MLB_MIMO - EVT_MD

MARCH 26, 2015

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6	32	CELLULAR BASEBAND: POWER2
7	33	CELLULAR BASEBAND: CONTROL AND INTERFACES
8	34	CELLULAR BASEBAND: GPIOs
9	35	CELLULAR PMU: CONTROL AND CLOCKS
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13	39	CELLULAR TRANSCEIVER: PRX PORTS
14	40	CELLULAR TRANSCEIVER: DRX/GPS PORTS
15	41	CELLULAR TRANSCEIVER: TX PORTS
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17	43	CELLULAR FRONT END: MB PAD
18	44	CELLULAR FRONT END: HB PAD
19	45	CELLULAR FRONT END: 2G PA
20	46	CELLULAR FRONT END: LB ASM
21	47	CELLULAR FRONT END: MB-HB ASM
22	48	CELLULAR FRONT END: DIVERSITY
23	49	SIM
24	50	WIFI/BT: WIFI/BT MODULE
25	51	STOCKHOLM

ROW HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
15281907	1	3.3NH, INDUCTOR	L4105_RF	ROW
15282007	1	8.2NH, INDUCTOR	L4401_RF	ROW
13180426	1	22PF, CAPACITOR	C4405_RF	ROW
15282042	1	1.8NH, INDUCTOR	C4406_RF	ROW
13180425	1	0.5PF, CAPACITOR	L4407_RF	ROW
15282041	1	10.0NH, INDUCTOR	L4403_RF	ROW
131800071	1	33PF, CAPACITOR	C4407_RF	ROW
152800143	1	15NH, INDUCTOR	L4404_RF	ROW
131800071	1	33PF, CAPACITOR	C4408_RF	ROW
11780108	1	51 OHM, RESISTOR	L4410_RF	ROW
13180599	1	1.5PF, CAPACITOR	C3921_RF	ROW
152800052	1	3.4NH, INDUCTOR	L3910_RF	ROW
11780201	1	0 OHM, RESISTOR	L3911_RF	ROW
15282039	1	3.8NH, INDUCTOR	L3919_RF	ROW
13180414	1	5.0PF, CAPACITOR	C4410_RF	ROW

RF2 HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
15281990	1	3.0NH, INDUCTOR	L4105_RF	RF2
13180377	1	1.2PF, CAPACITOR	C4108_RF	RF2
13180631	1	0.3PF, CAPACITOR	L4401_RF	RF2
15282042	1	1.8NH, INDUCTOR	C4405_RF	RF2
15282041	1	1.8NH, INDUCTOR	C4406_RF	RF2
13180631	1	0.3PF, CAPACITOR	L4407_RF	RF2
131800001	1	0.1PF, CAPACITOR	L4403_RF	RF2
15282051	1	1.3NH, INDUCTOR	C4407_RF	RF2
15282051	1	1.3NH, INDUCTOR	C4408_RF	RF2
13180805	1	100PF, CAPACITOR	C4409_RF	RF2
13180431	1	0.2PF, CAPACITOR	L4410_RF	RF2
13180381	1	1.6PF, CAPACITOR	C3921_RF	RF2
152800027	1	3.7NH, INDUCTOR	L3910_RF	RF2
11780201	1	0 OHM, RESISTOR	L3911_RF	RF2
15282045	1	3.0NH, INDUCTOR	L3919_RF	RF2
152800052	1	3.4NH, INDUCTOR	L3912_RF	RF2
13180599	1	1.5PF, CAPACITOR	C3922_RF	RF2
13180630	1	27PF, CAPACITOR	C3911_RF	RF2
13180414	1	5.0PF, CAPACITOR	C4410_RF	RF2

RFC HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
15281907	1	3.3NH, INDUCTOR	L4105_RF	RF2
15282007	1	8.2NH, INDUCTOR	L4401_RF	RF2
13180426	1	22PF, CAPACITOR	C4405_RF	RF2
15282042	1	1.8NH, INDUCTOR	C4406_RF	RF2
13180425	1	0.5PF, CAPACITOR	L4407_RF	RF2
15282041	1	10.0NH, INDUCTOR	L4403_RF	RF2
131800071	1	33PF, CAPACITOR	C4407_RF	RF2
152800143	1	15NH, INDUCTOR	L4404_RF	RF2
131800071	1	33PF, CAPACITOR	C4408_RF	RF2
11780108	1	51 OHM, RESISTOR	L4410_RF	RF2
13180599	1	1.5PF, CAPACITOR	C3921_RF	RF2
152800052	1	3.4NH, INDUCTOR	L3910_RF	RF2
11780201	1	0 OHM, RESISTOR	L3911_RF	RF2
15282039	1	3.8NH, INDUCTOR	L3919_RF	RF2
13180414	1	5.0PF, CAPACITOR	C4410_RF	RF2

RF2 LB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
13180551	1	1.2PF, CAPACITOR	L4203_RF	RF2
15282004	1	3.3NH, INDUCTOR	C4205_RF	RF2
13180551	1	1.2PF, CAPACITOR	L4204_RF	RF2
15282020	1	3.6NH, INDUCTOR	C4206_RF	RF2
13180551	1	1.2PF, CAPACITOR	L4205_RF	RF2
152800202	1	4.0NH, INDUCTOR	C4207_RF	RF2
13180336	1	1.3PF, CAPACITOR	L4206_RF	RF2
15282022	1	4.3NH, INDUCTOR	C4208_RF	RF2
13180555	1	1.0PF, CAPACITOR	L4207_RF	RF2
152800052	1	3.4NH, INDUCTOR	C4209_RF	RF2
13180551	1	1.2PF, CAPACITOR	L4209_RF	RF2
152800158	1	4.1NH, INDUCTOR	C4211_RF	RF2
131800070	1	1.3PF, CAPACITOR	L4210_RF	RF2
152800180	1	4.2NH, INDUCTOR	C4212_RF	RF2
13180560	1	1.1PF, CAPACITOR	L4211_RF	RF2
152800027	1	3.7NH, INDUCTOR	C4213_RF	RF2
152800202	1	4.0NH, INDUCTOR	L4201_RF	RF2
15282045	1	3.0NH, INDUCTOR	R4201_RF	RF2
15282056	1	5.6NH, INDUCTOR	L4202_RF	RF2
15281996	1	15NH, INDUCTOR	C3913_RF	RF2
131800074	1	30PF, CAPACITOR	L3902_RF	RF2
15281995	1	12NH, INDUCTOR	C3902_RF	RF2

HB PAD

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353800376	1	IC, PWR AMP, HB_PAD, TQS	UHBPA_RF	ROW
35384494	1	IC, PWR AMP, HB_PAD, AVAGO	UHBPA_RF	RF2
353800376	1	IC, PWR AMP, HB_PAD, TQS	UHBPA_RF	RF2

LB PAD

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353800461	1	IC, PWR AMP, LB_PAD, SKWS	ULBPA_RF	ROW
353800056	1	IC, PWR AMP, LB_PAD, MURATA	ULBPA_RF	RF2
353800461	1	IC, PWR AMP, LB_PAD, SKWS	ULBPA_RF	RF2

VINYL

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
337800125	1	IC, VINYL	U5101_RF	ROW
337800125	1	IC, VINYL	U5101_RF	RF2

VINYL RESISTOR

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
11780161	1	0 OHM, RESISTOR	R3402_RF	RF2

RFC LB PAD MATCHING BOM OPTIONS

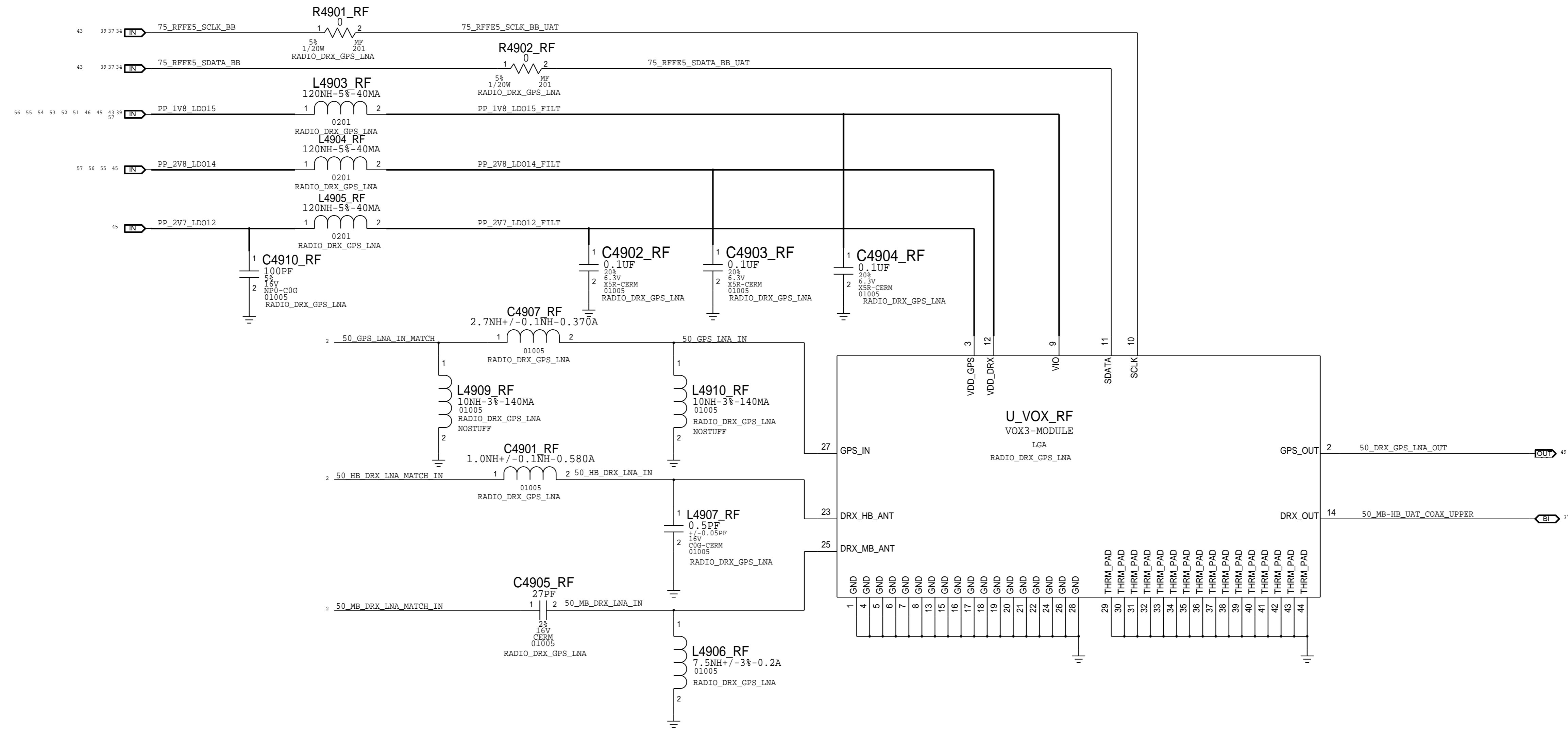
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
13180555	1	1.0PF, CAPACITOR	L4203_RF	RF2
152800158	1	4.1NH, INDUCTOR	C4205_RF	RF2
13180425	1	0.5PF, CAPACITOR	L4204_RF	RF2
15282053	1	4.7NH, INDUCTOR	C4206_RF	RF2
13180555	1	1.0PF, CAPACITOR	L4205_RF	RF2
152800027	1	3.7NH, INDUCTOR	C4207_RF	RF2
13180557	1	0.7PF, CAPACITOR	L4206_RF	RF2
15282001	1	2.4NH, INDUCTOR	C4208_RF	RF2
13180351	1	0.4PF, CAPACITOR	L4207_RF	RF2
15282002	1	2.7NH, INDUCTOR	C4209_RF	RF2
15282002	1	2.7NH, INDUCTOR	C4211_RF	RF2
15282056	1	5.6NH, INDUCTOR	C4212_RF	RF2
13180340	1	2.0PF, CAPACITOR	L4219_RF	RF2
15282021	1	1.5NH, INDUCTOR	C4213_RF	RF2
11880724	1	0 OHM, RESISTOR	R4201_RF	RF2
13180551	1	1.2PF, CAPACITOR	L4601_RF	RF2
15281342	1	15NH, INDUCTOR	L3902_RF	RF2
13180630	1	27PF, CAPACITOR	C3902_RF	RF2

ROW LB PAD MATCHING BOM OPTIONS

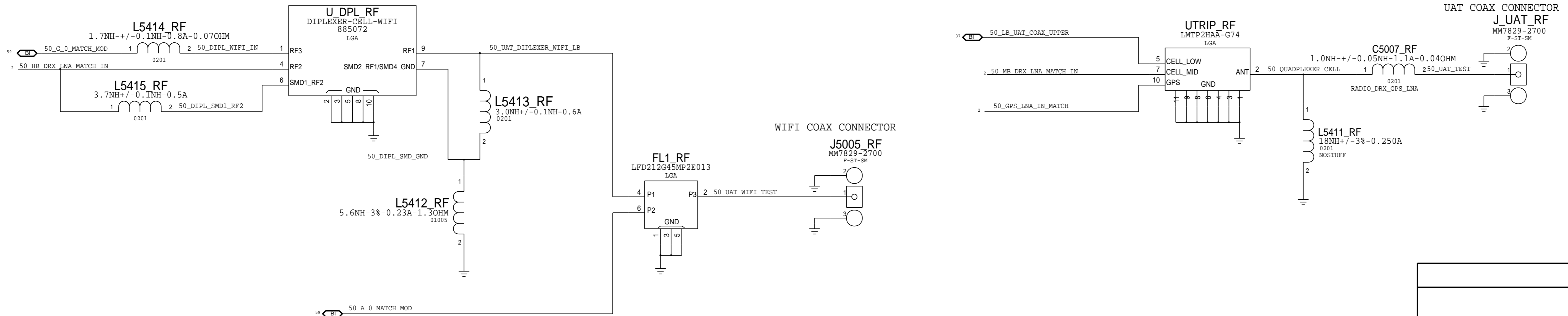
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
13180555	1	1.0PF, CAPACITOR	L4203_RF	ROW
152800158	1	4.1NH, INDUCTOR	C4205_RF	ROW
13180425	1	0.5PF, CAPACITOR	L4204_RF	ROW
15282053	1	4.7NH, INDUCTOR	C4206_RF	ROW
13180555	1	1.0PF, CAPACITOR	L4205_RF	ROW
152800027	1	3.7NH, INDUCTOR	C4207_RF	ROW
13180557	1	0.7PF, CAPACITOR	L4206_RF	ROW
15282001	1	2.4NH, INDUCTOR	C4208_RF	ROW
13180351	1	0.4PF, CAPACITOR	L4207_RF	ROW
15282002	1	2.7NH, INDUCTOR	C4209_RF	ROW
15282002	1	2.7NH, INDUCTOR	C4211_RF	ROW
15282056	1	5.6NH, INDUCTOR	C4212_RF	ROW
13180340	1	2.0PF, CAPACITOR	L4219_RF	ROW
15282021	1	1.5NH, INDUCTOR	C4213_RF	ROW
11880724	1	0 OHM, RESISTOR	R4201_RF	ROW
13180551	1	1.2PF, CAPACITOR	L4601_RF	ROW
15281342	1	15NH, INDUCTOR	L3902_RF	ROW
13180630	1	27PF, CAPACITOR	C3902_RF	ROW

N66-SPECIFIC RADIO PAGE 2

DIVERSITY LNA



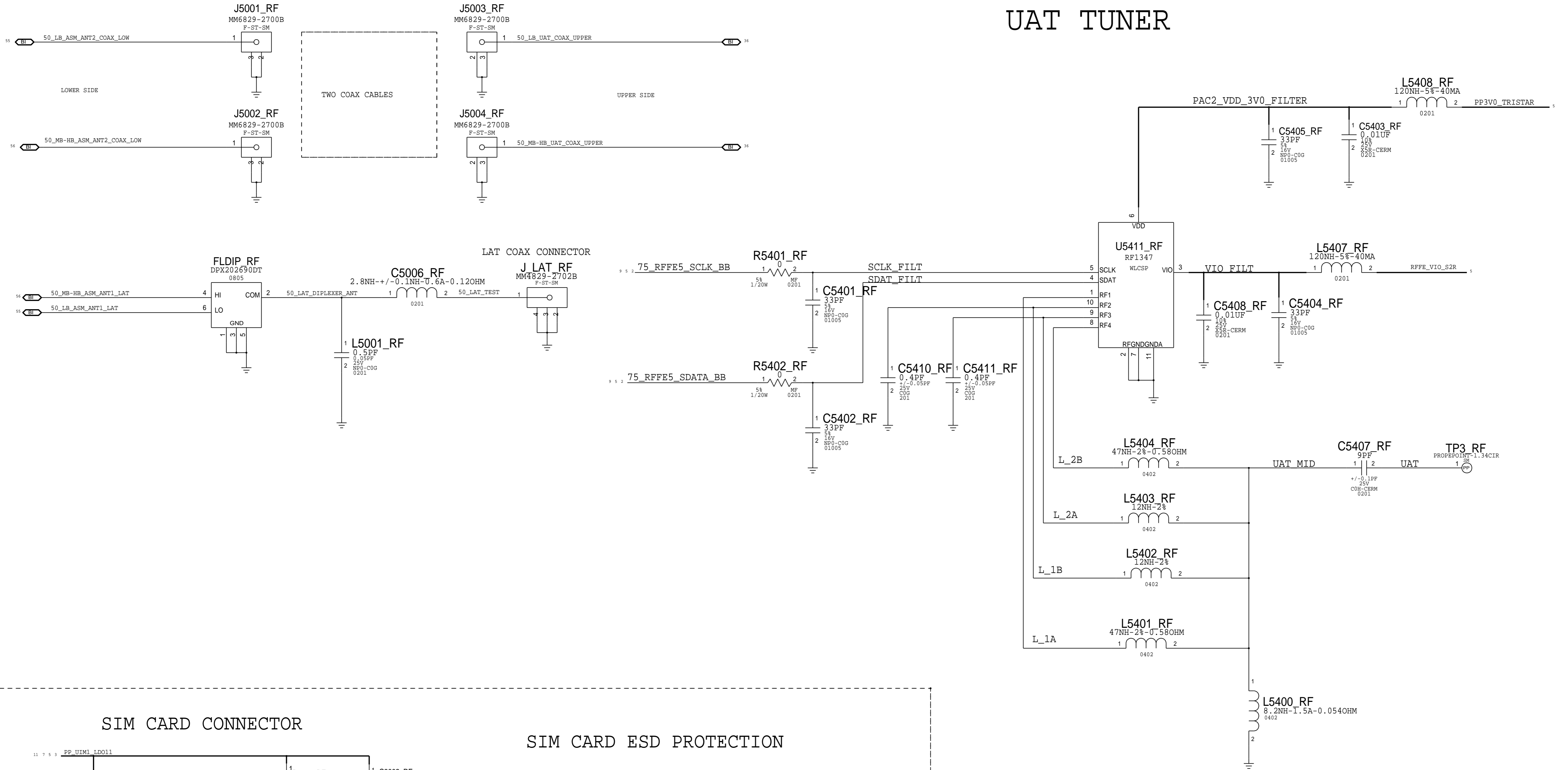
UAT ANT FEED



N66-SPECIFIC RADIO PAGE 3

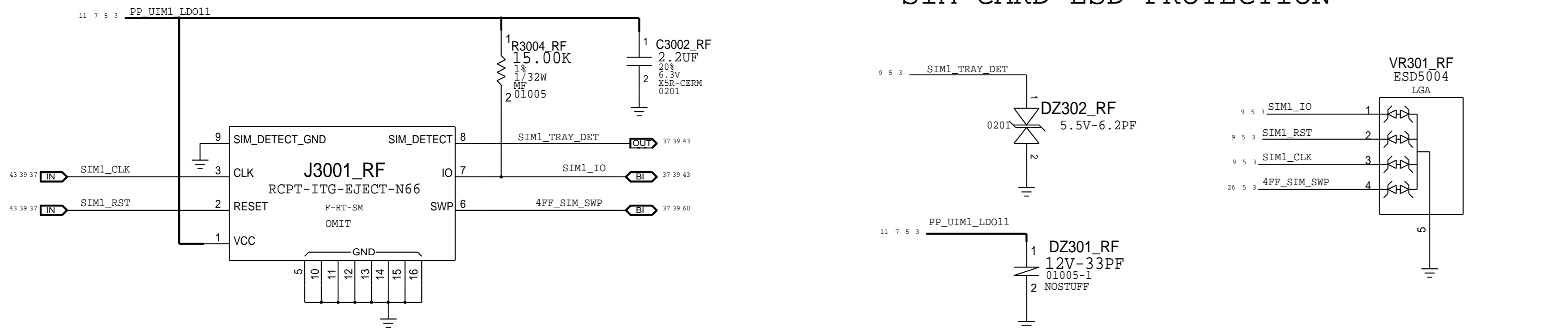
ANTENNA FEEDS AND CONNECTORS

UAT TUNER



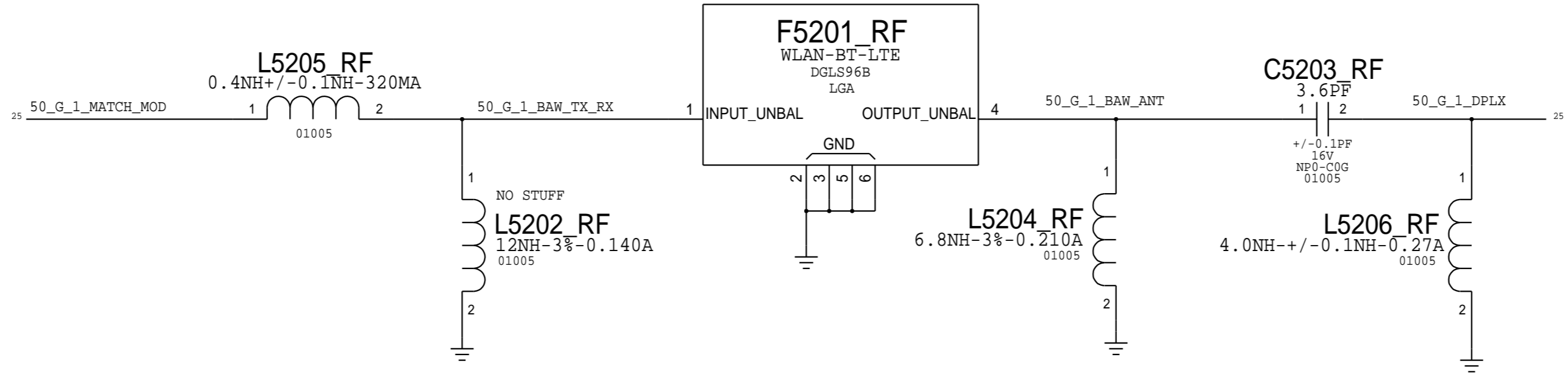
SIM CARD CONNECTOR

SIM CARD ESD PROTECTION



N66-SPECIFIC RADIO PAGE 4

WLAN LAT 2.4GHZ BAW BPF



PAGE TITLE	
	SIZE

AP TO BB/WLAN/BT/SH CONNECTIONS

MLB PROBE POINTS

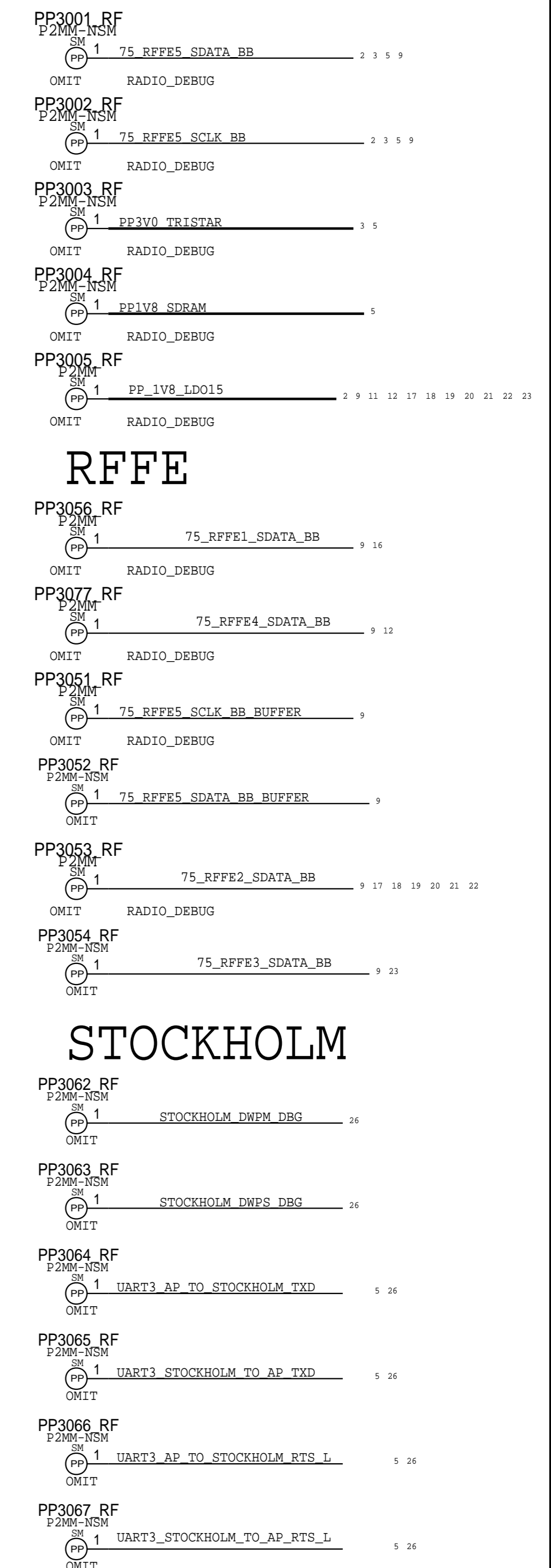
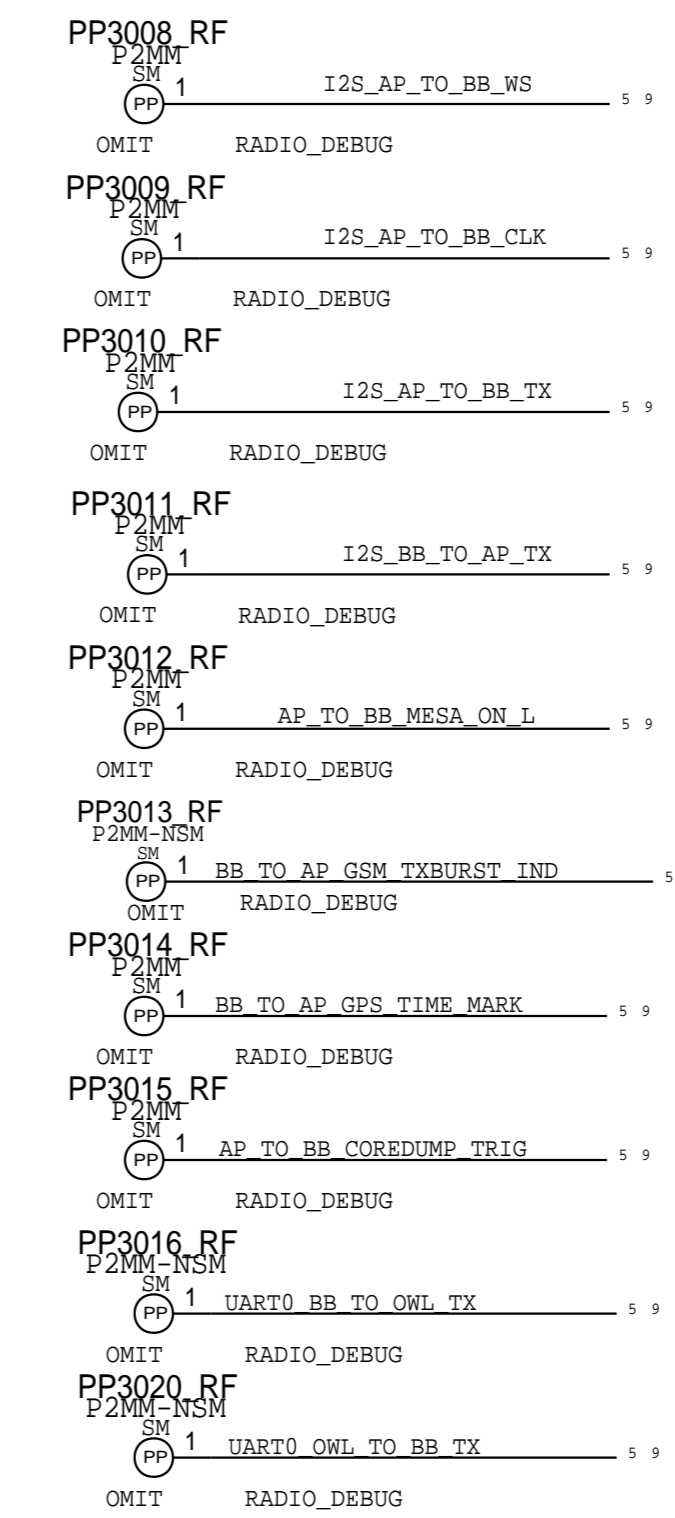
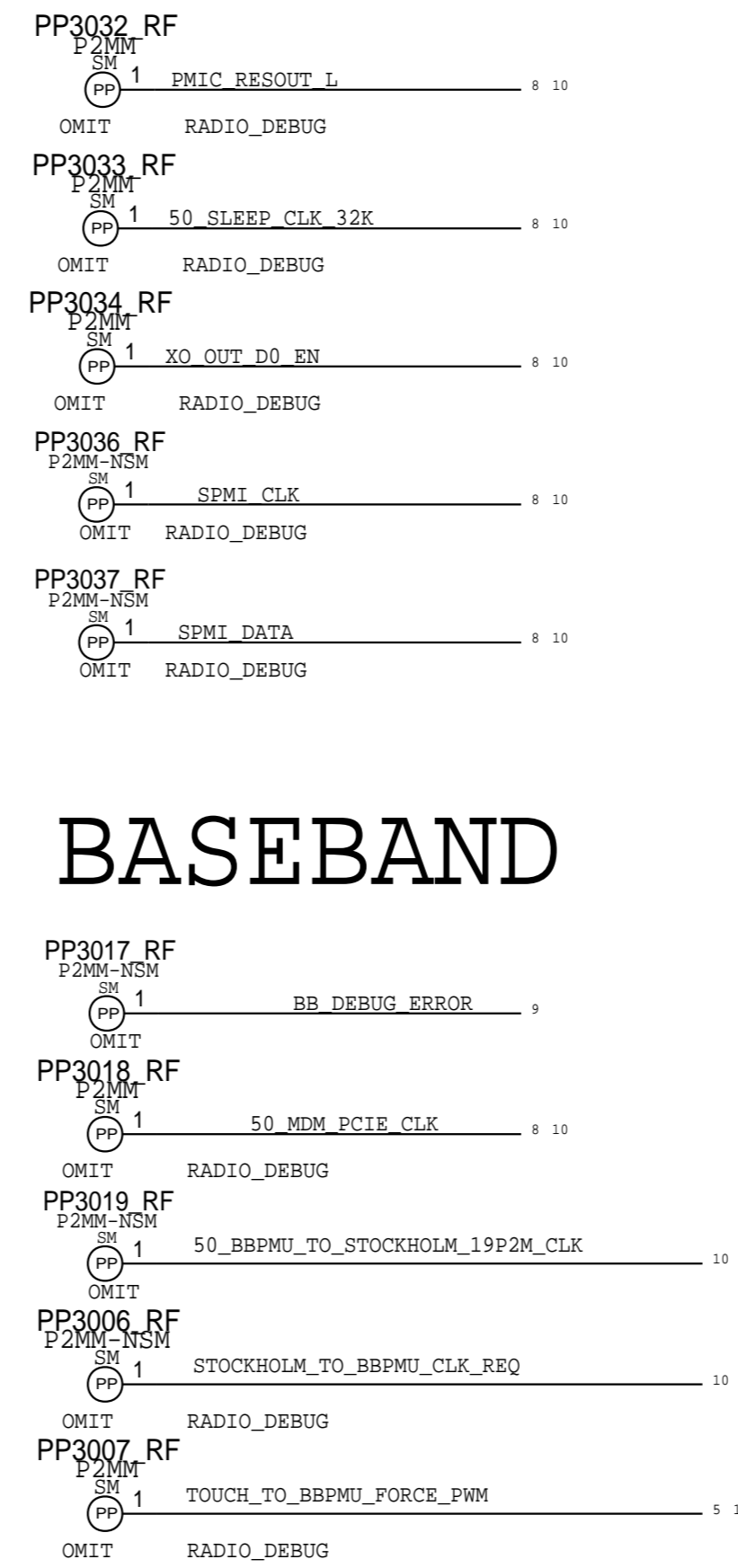
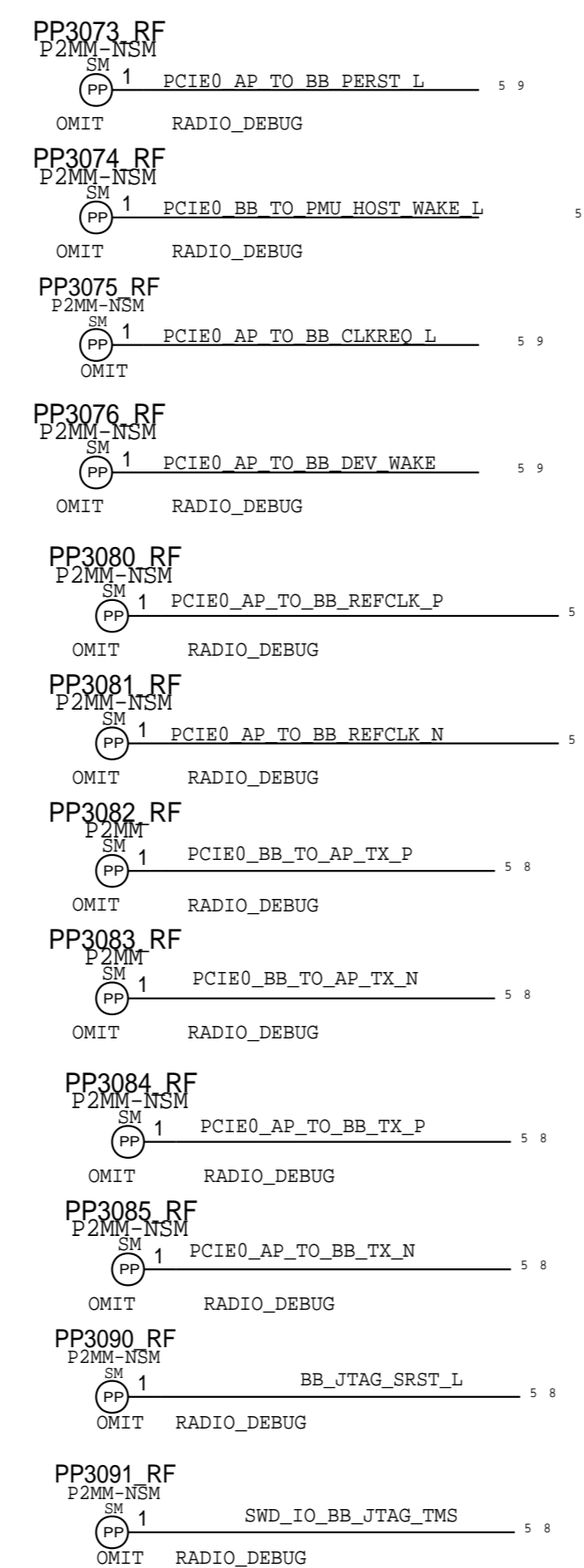
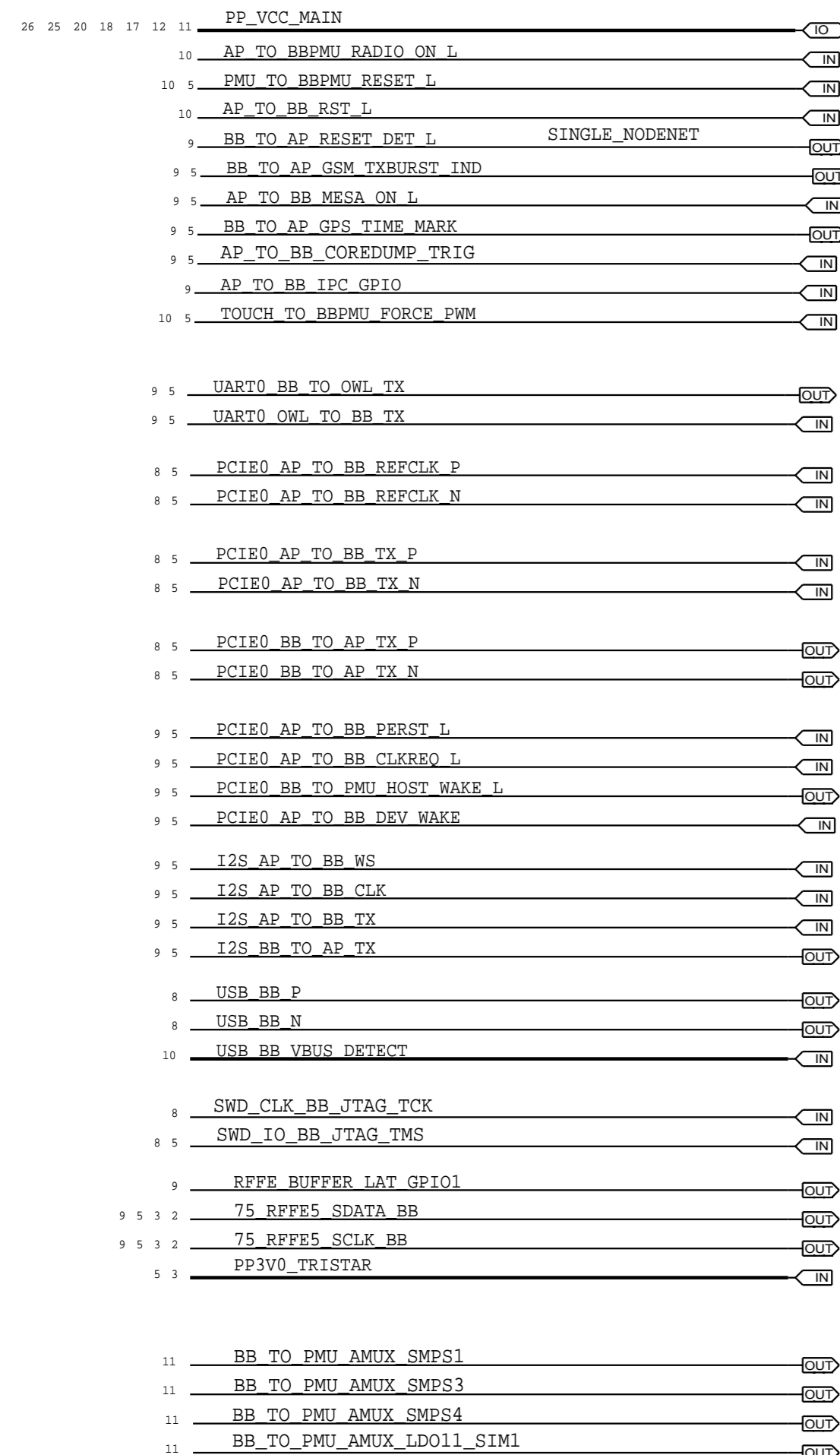
BASEBAND

WLAN/BT

PCIE

PMU

ANT TUNER

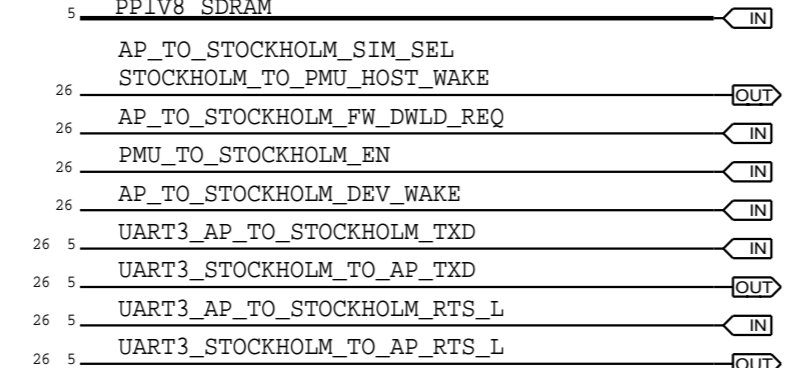
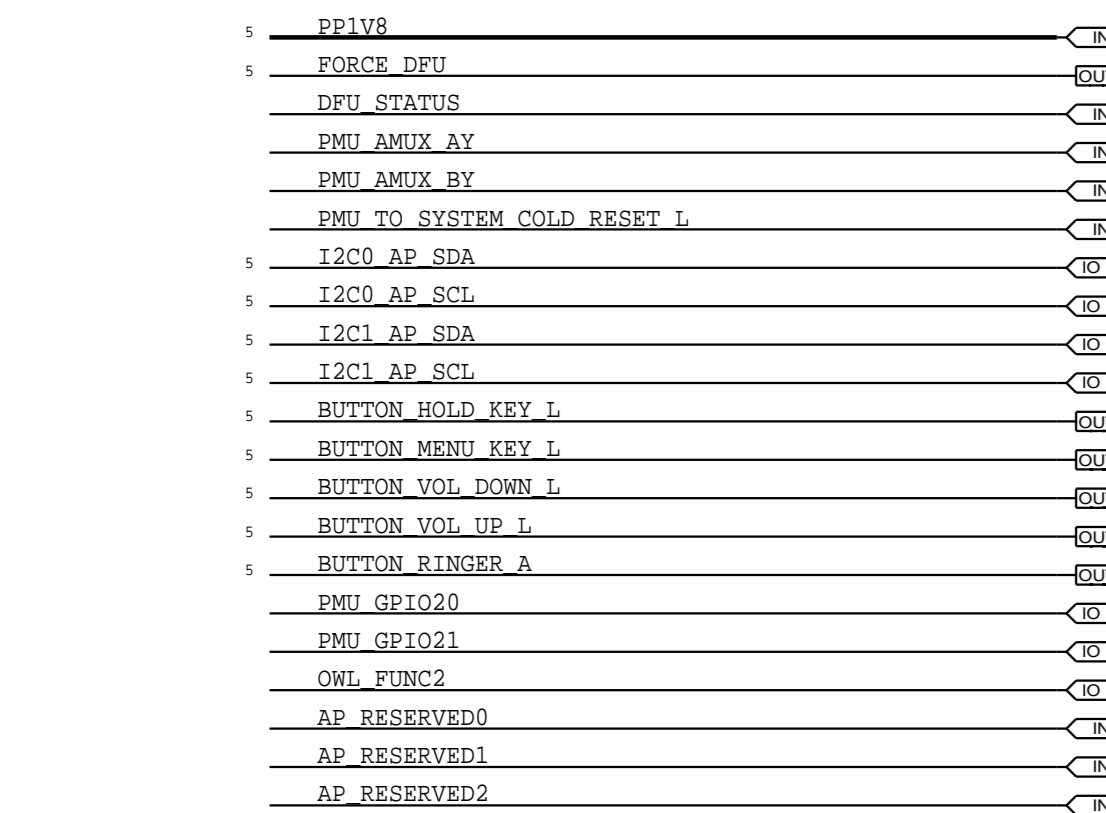


AP DEBUG

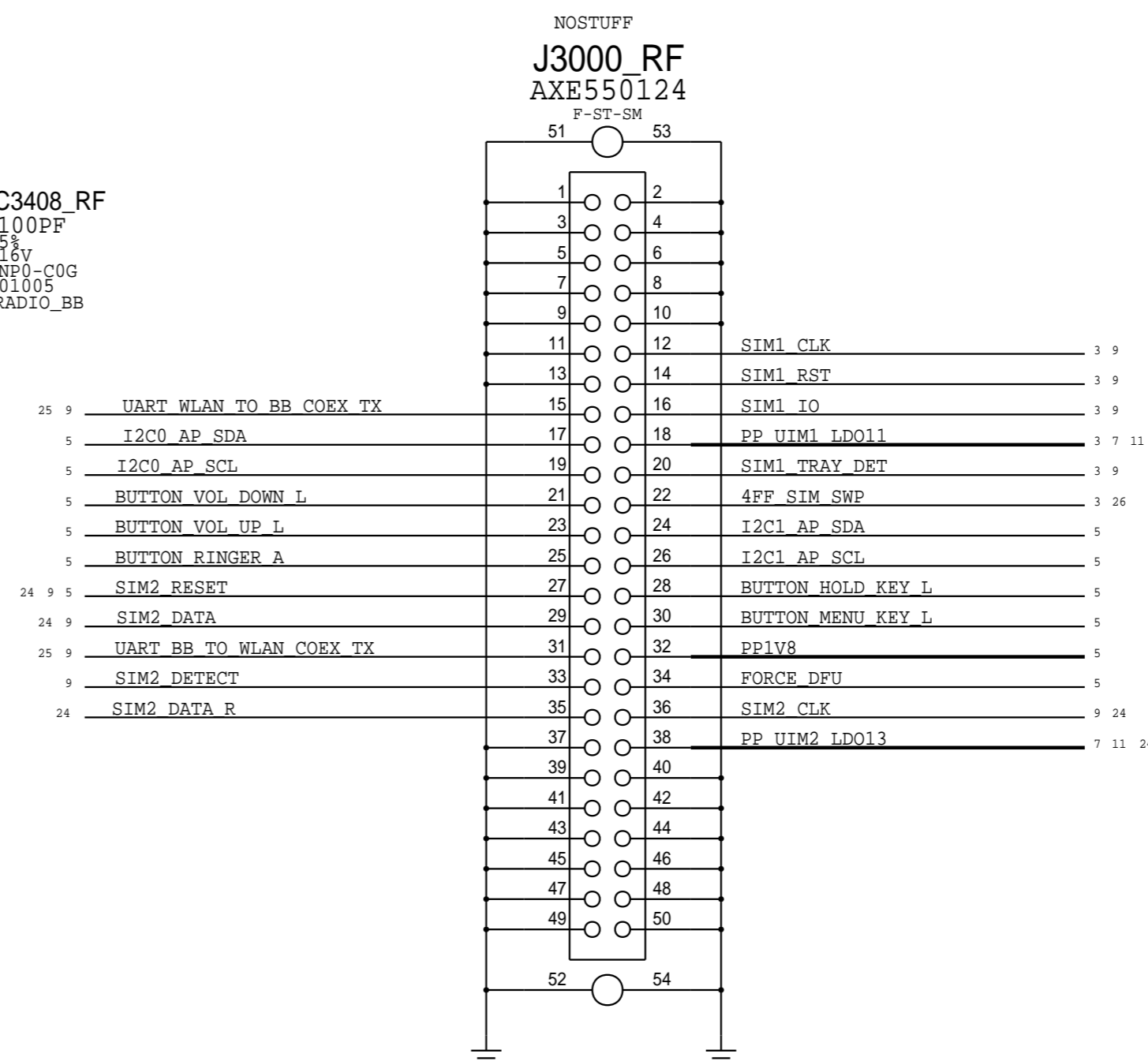
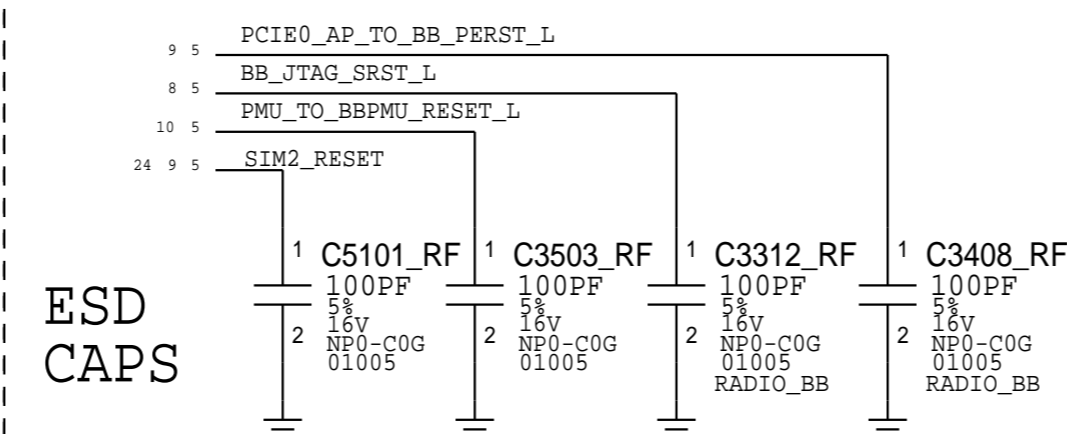
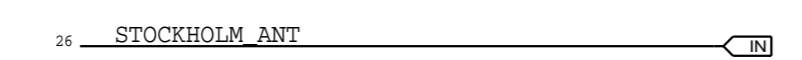
STOCKHOLM

DEBUG CONNECTOR

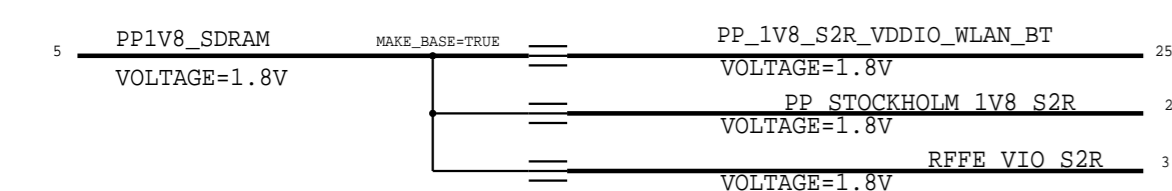
STOCKHOLM



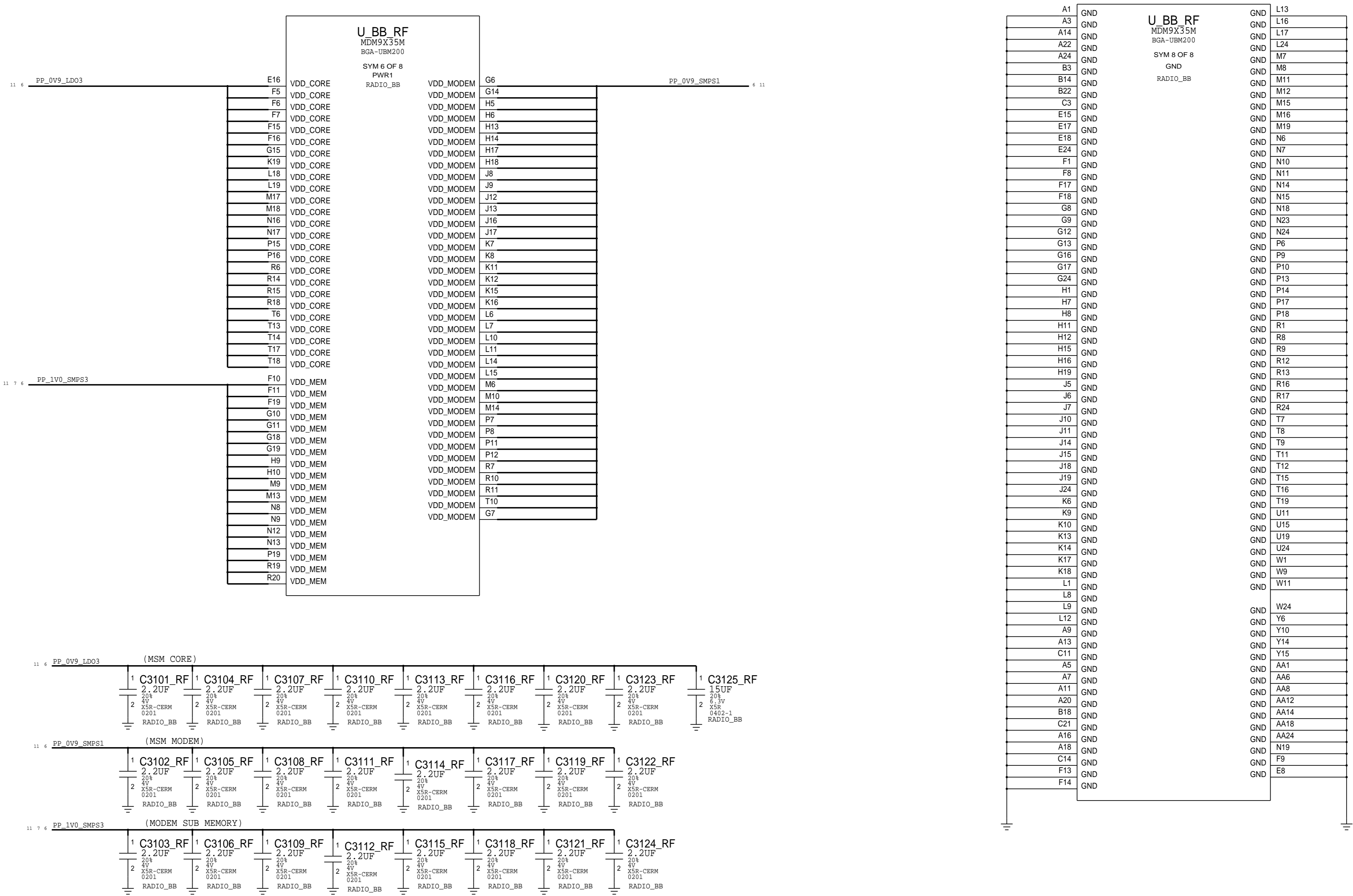
ANT



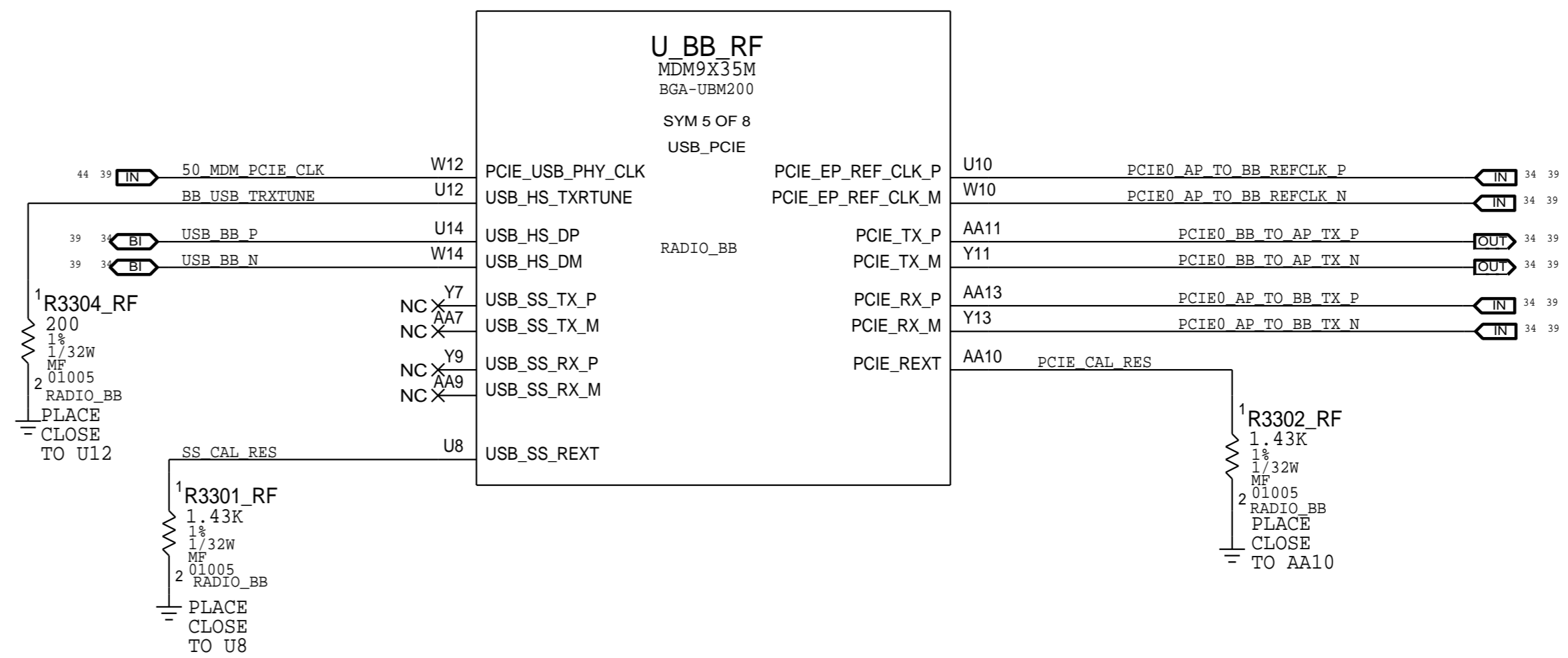
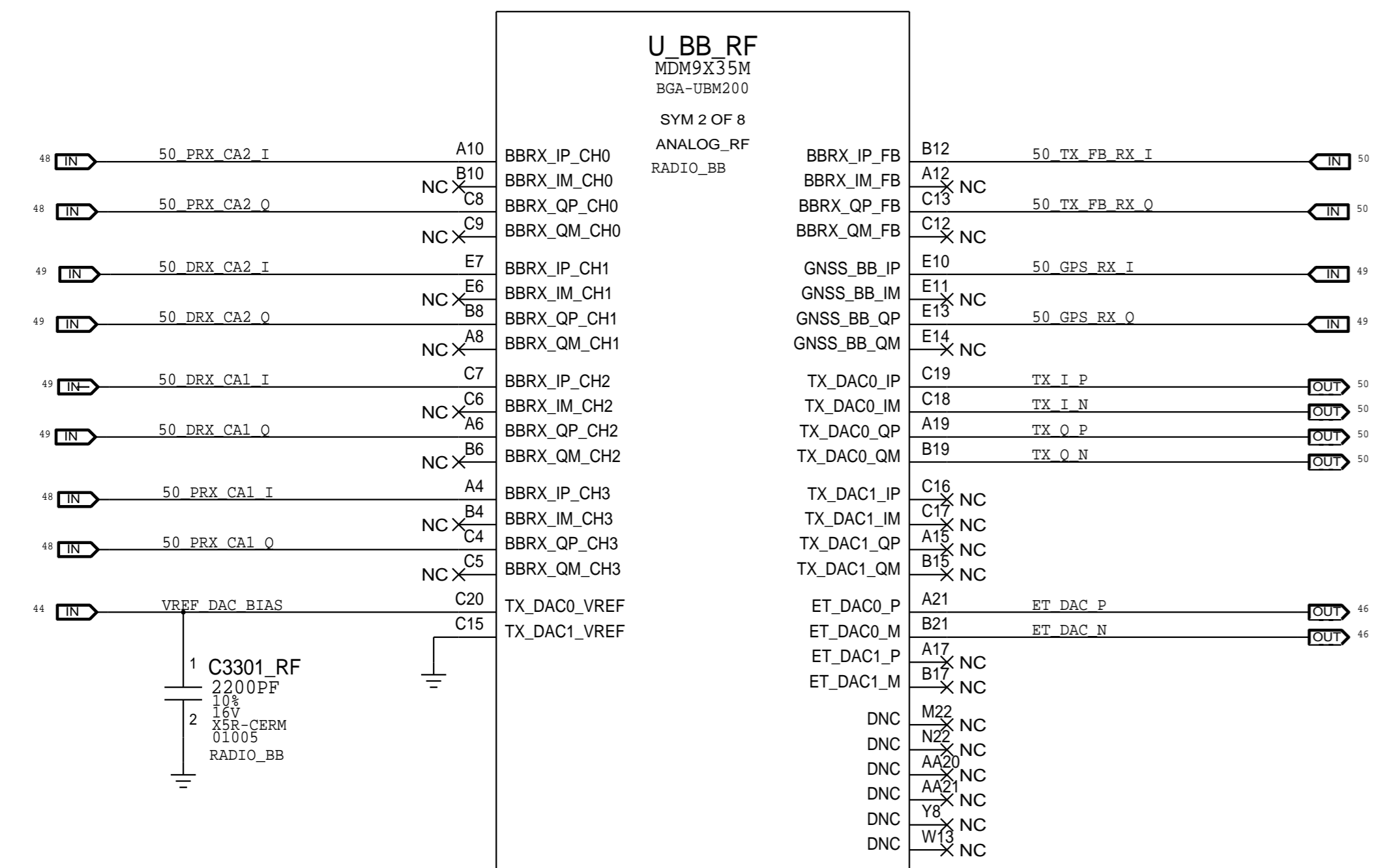
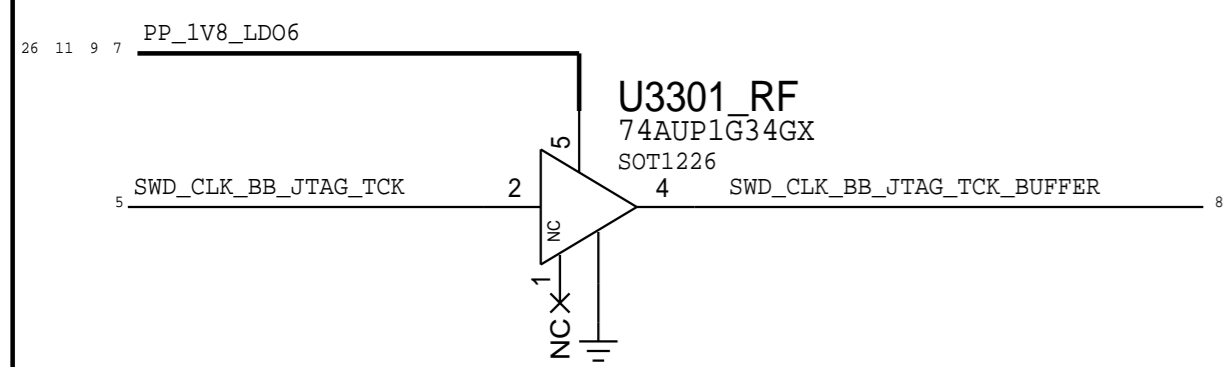
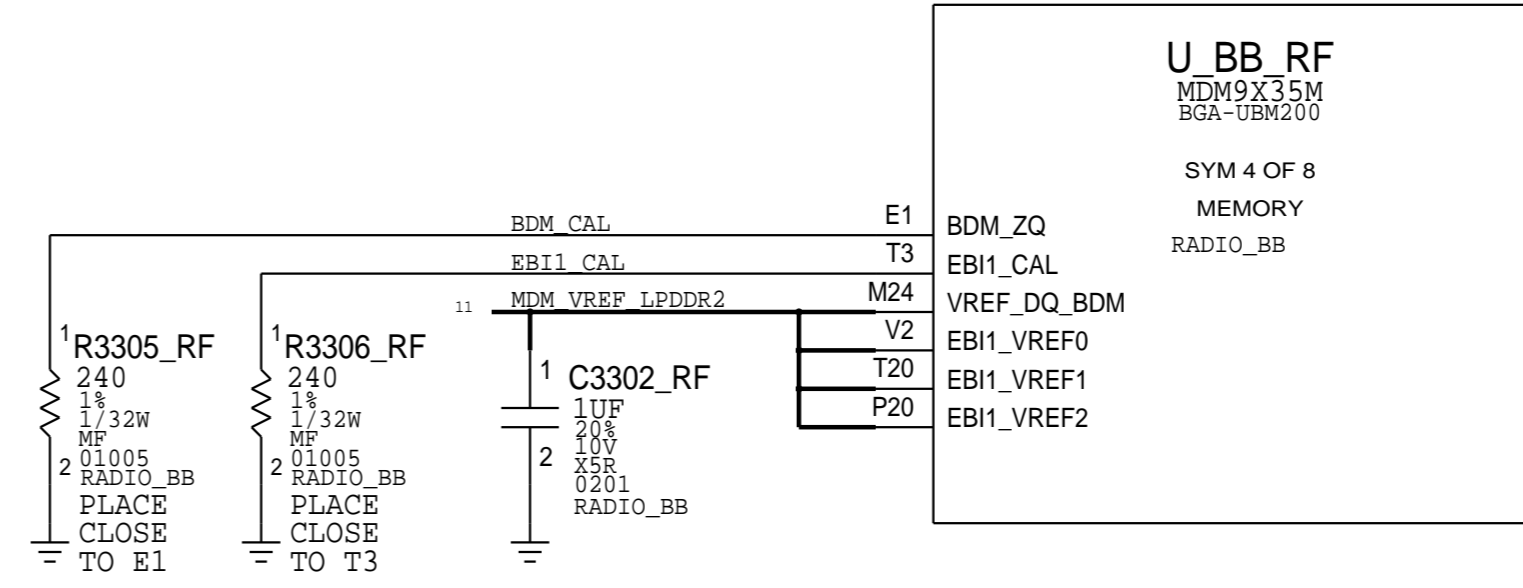
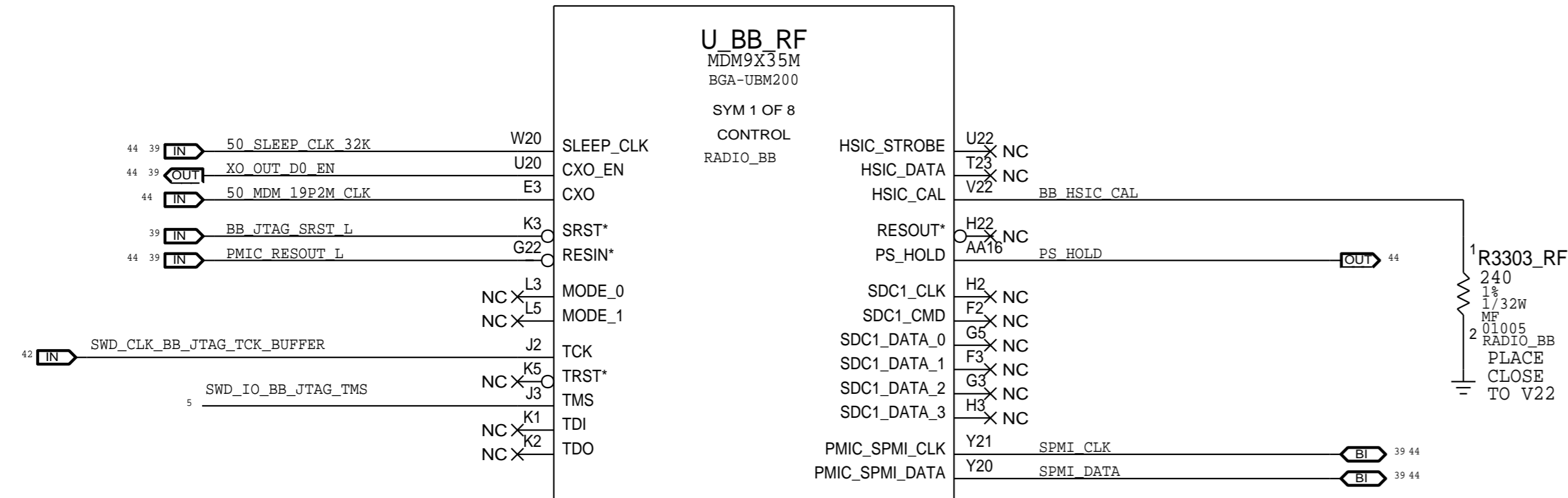
POWER



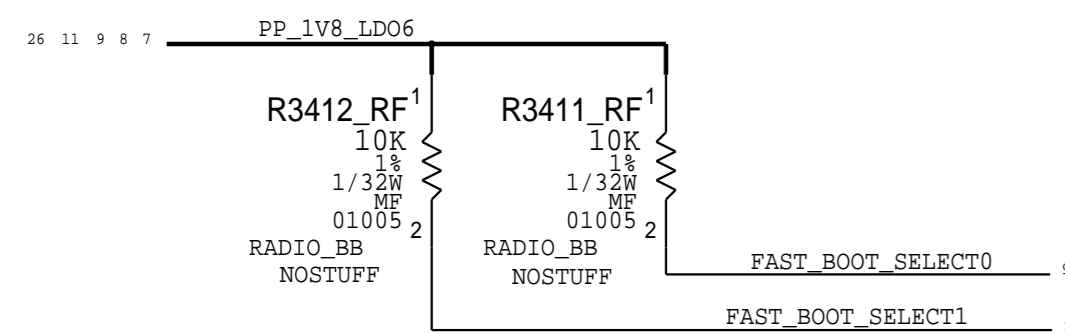
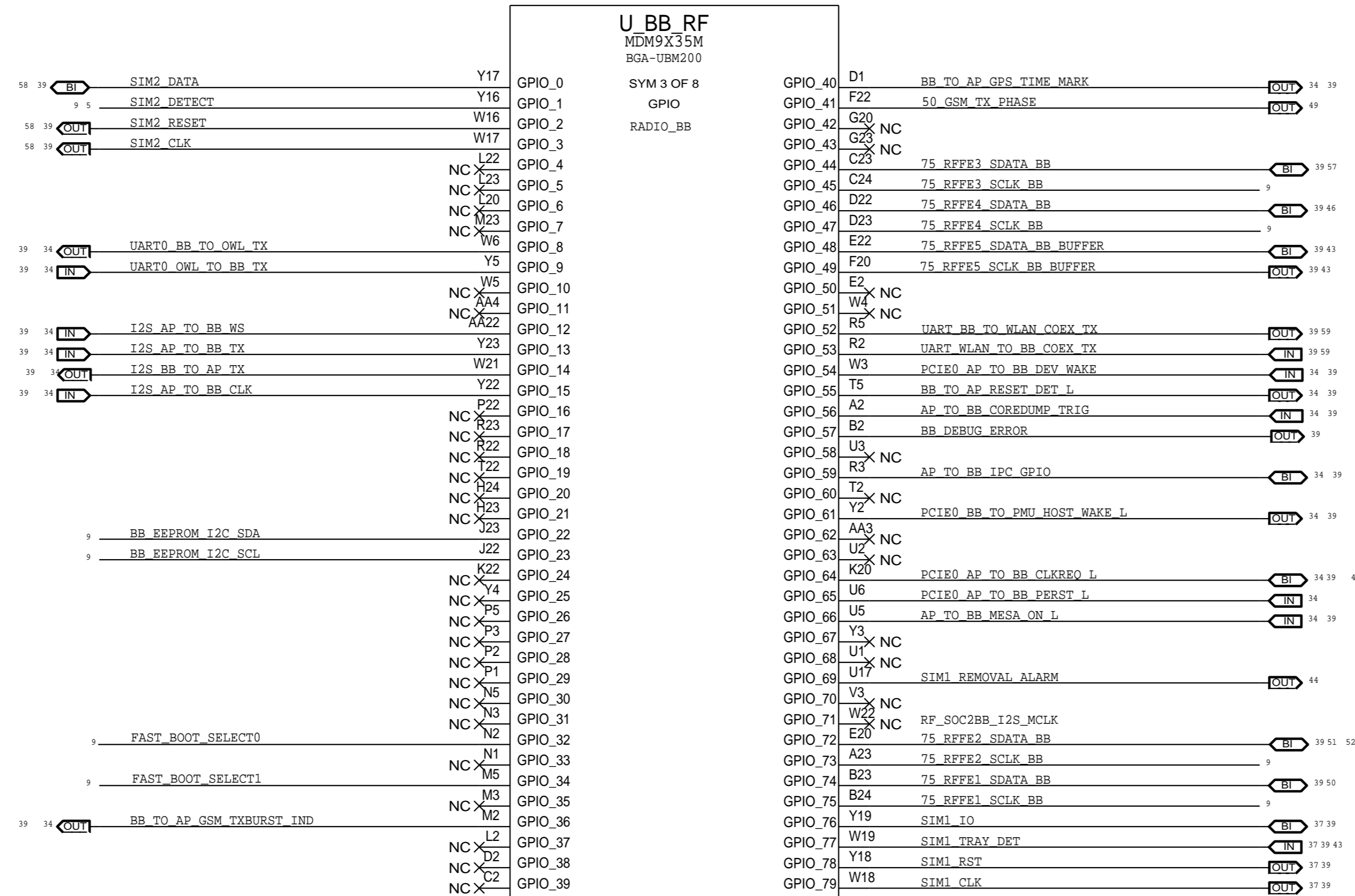
BASEBAND: POWER 1



BASEBAND: CONTROL AND INTERFACES

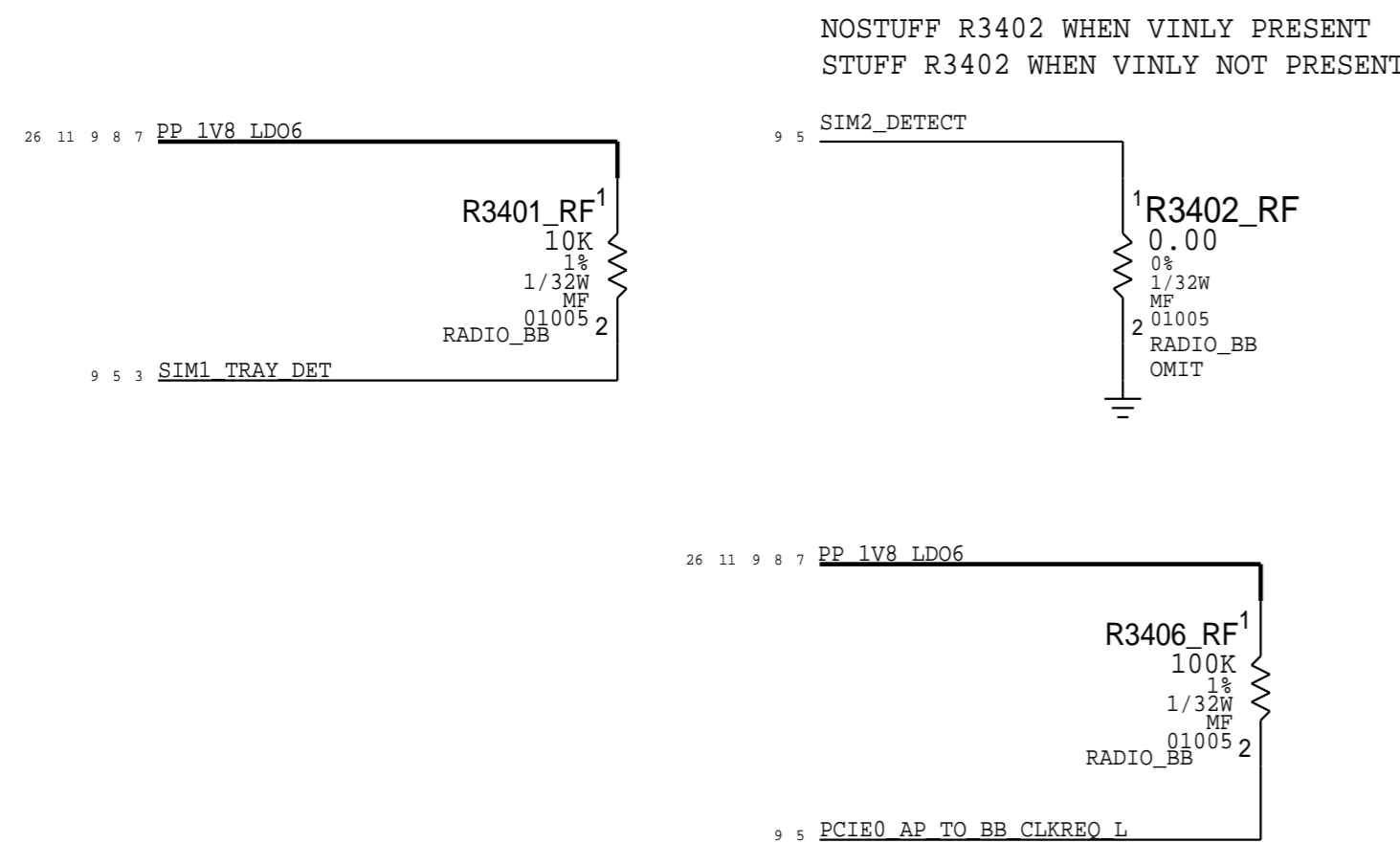
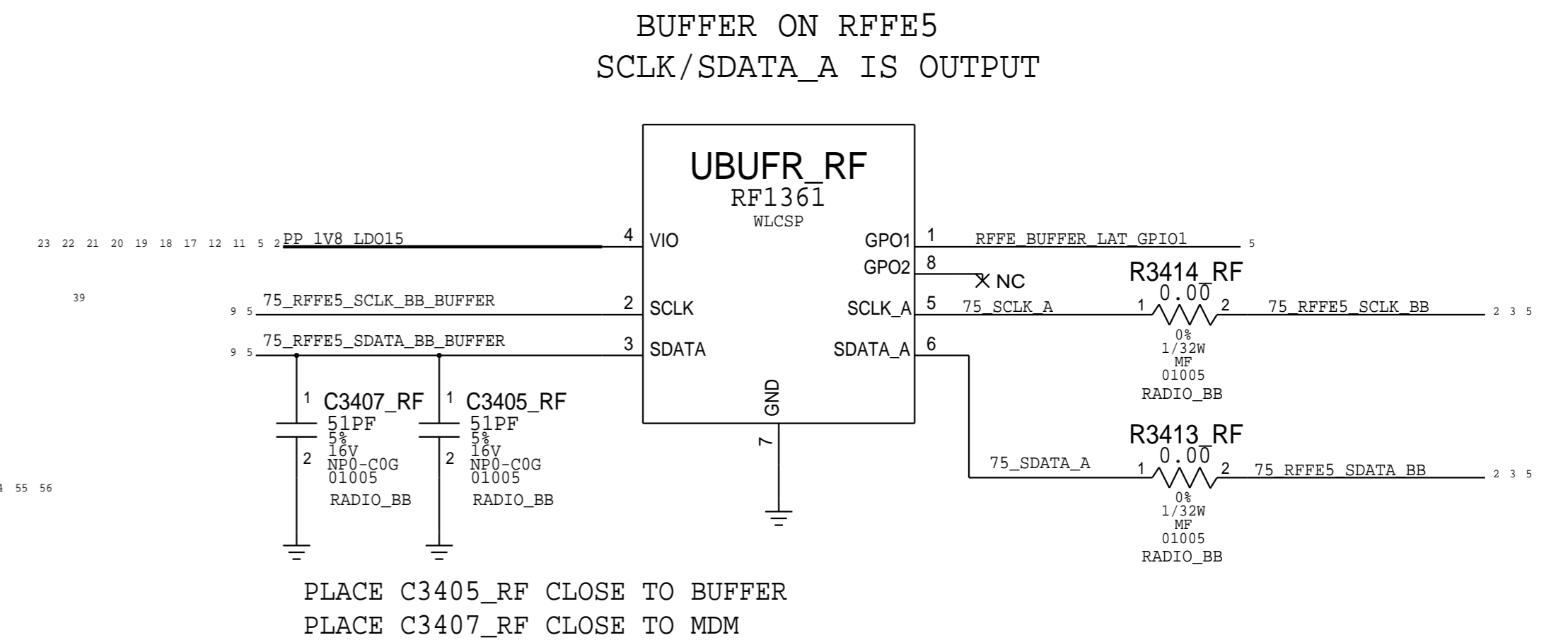


BASEBAND: GPIOs



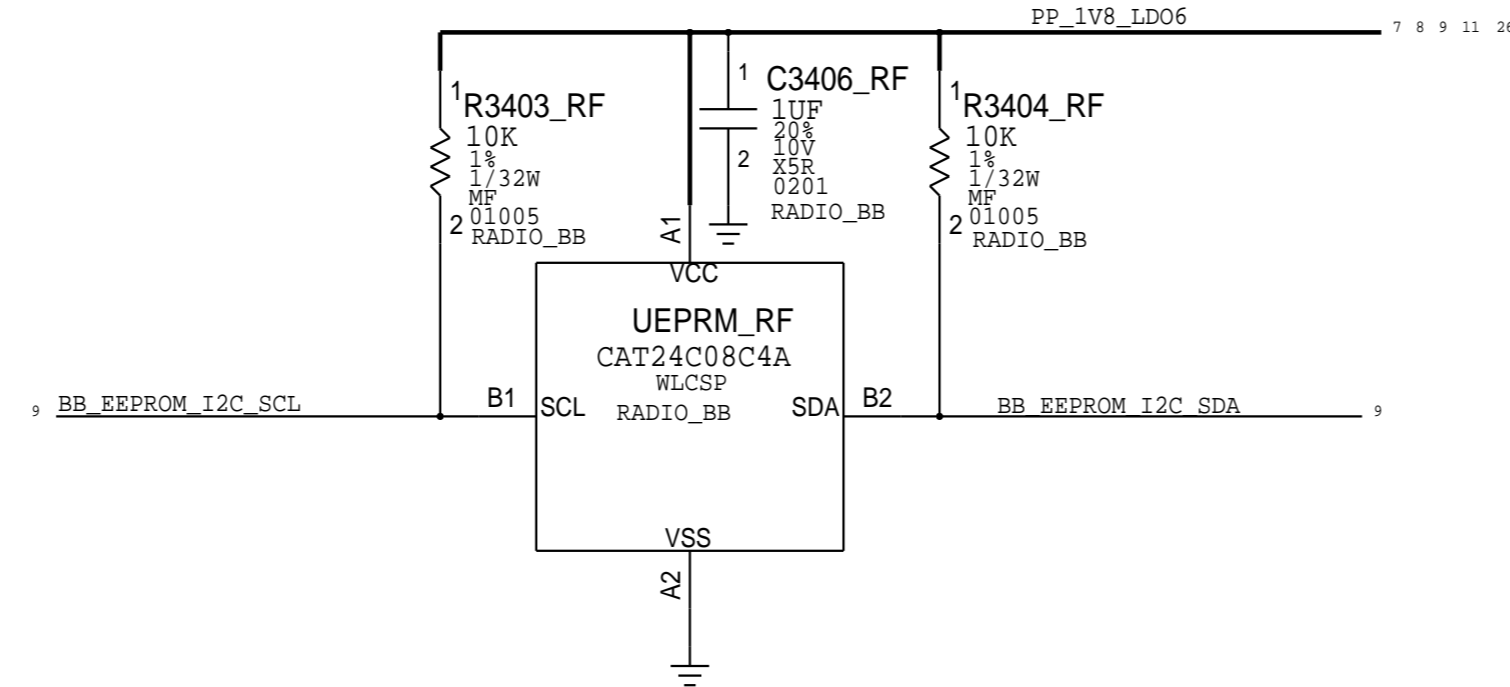
STUFF R3411 FOR PCIE BOOT (UNFUSED BB)
STUFF R3412 FOR USB BOOT (UNFUSED BB)

OPTION	SEL2	SEL1	SEL0
GPIO	35	34	32
PCIE	0	0	1
HSUSB	0	1	0
HSIC	0	1	1

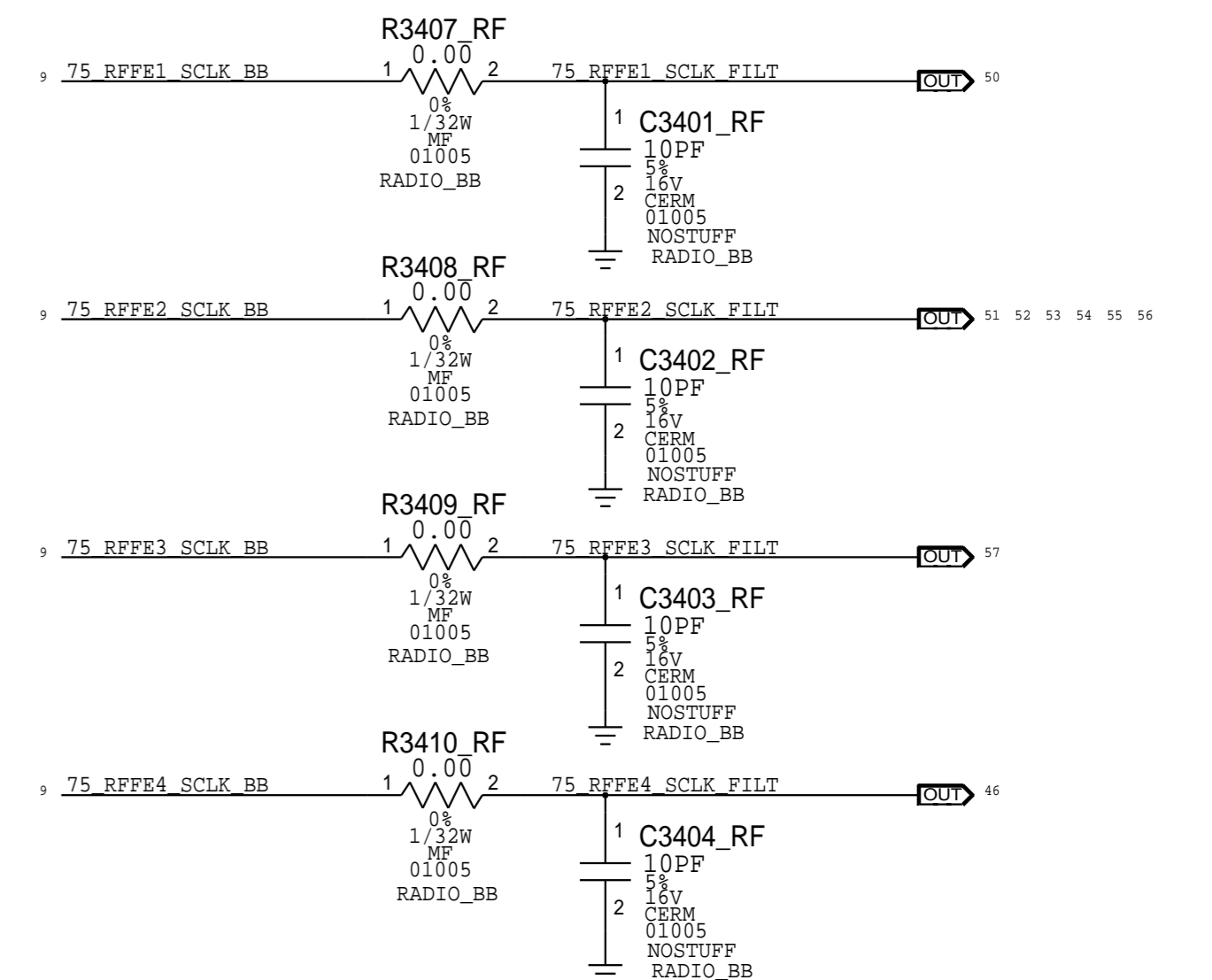


NOSTUFF R3402 WHEN VINLY PRESENT
STUFF R3402 WHEN VINLY NOT PRESENT

BB EEPROM



RFFE CLOCK FILTERS



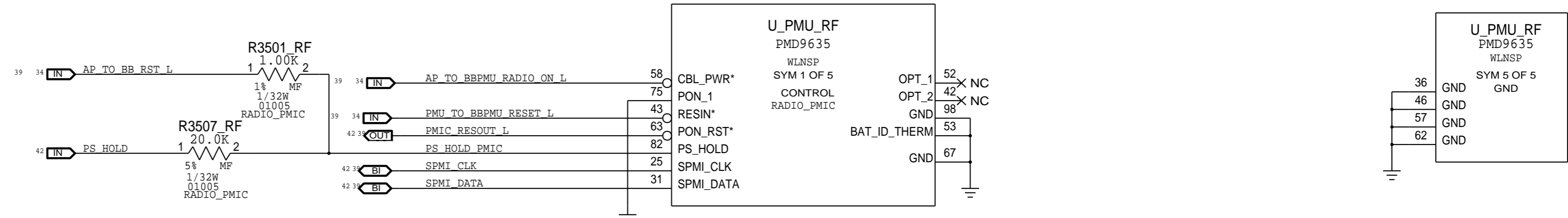
RFFE USAGE TABLE

- RFFE1 WTR
- RFFE2 LB/MB/HB PAD, 2G PA, LB/MB/HB ASM
- RFFE3 DIV ASM
- RFFE4 QPOET
- RFFE5 DIV LNA, ANT TUNERS

PMU: CONTROL AND CLOCKS

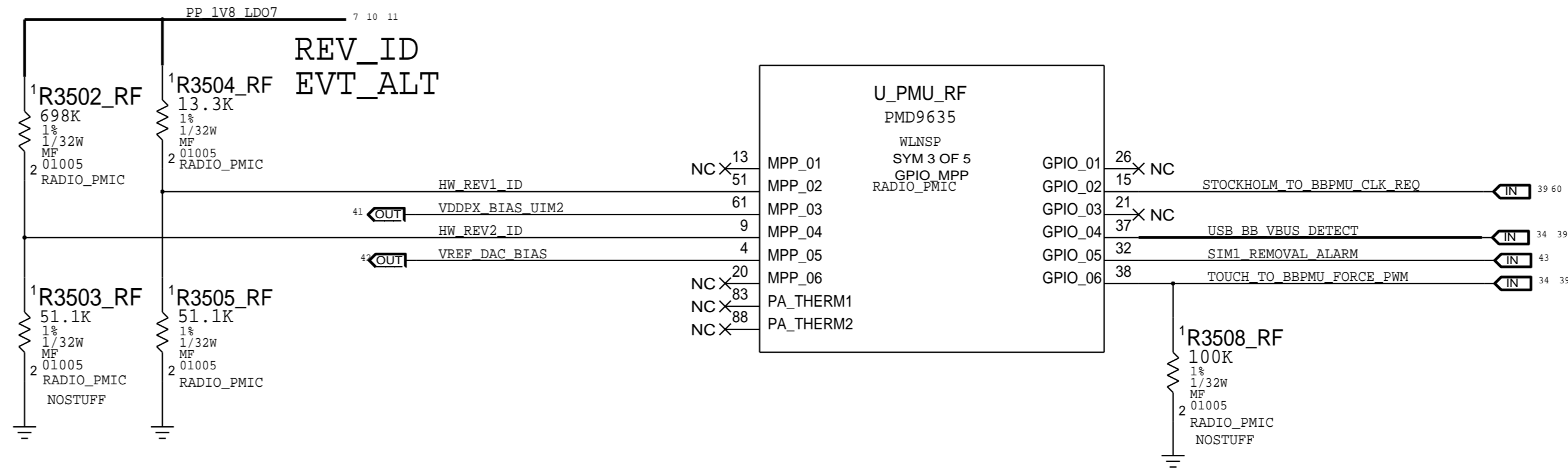
RESET AND CONTROL: PMU

HW_REV2_ID	R3502	R3503	CONFIG
1.80V	698K	-	MLB
0.12V	698K	51.1K	SELF GEN

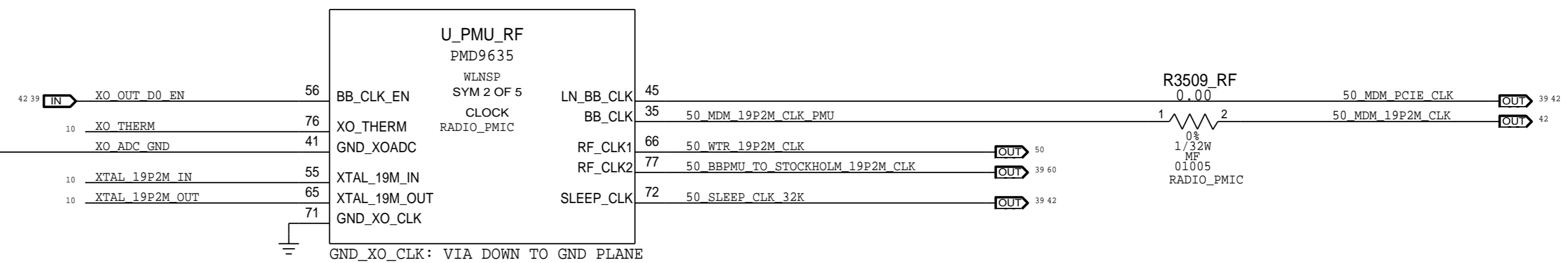
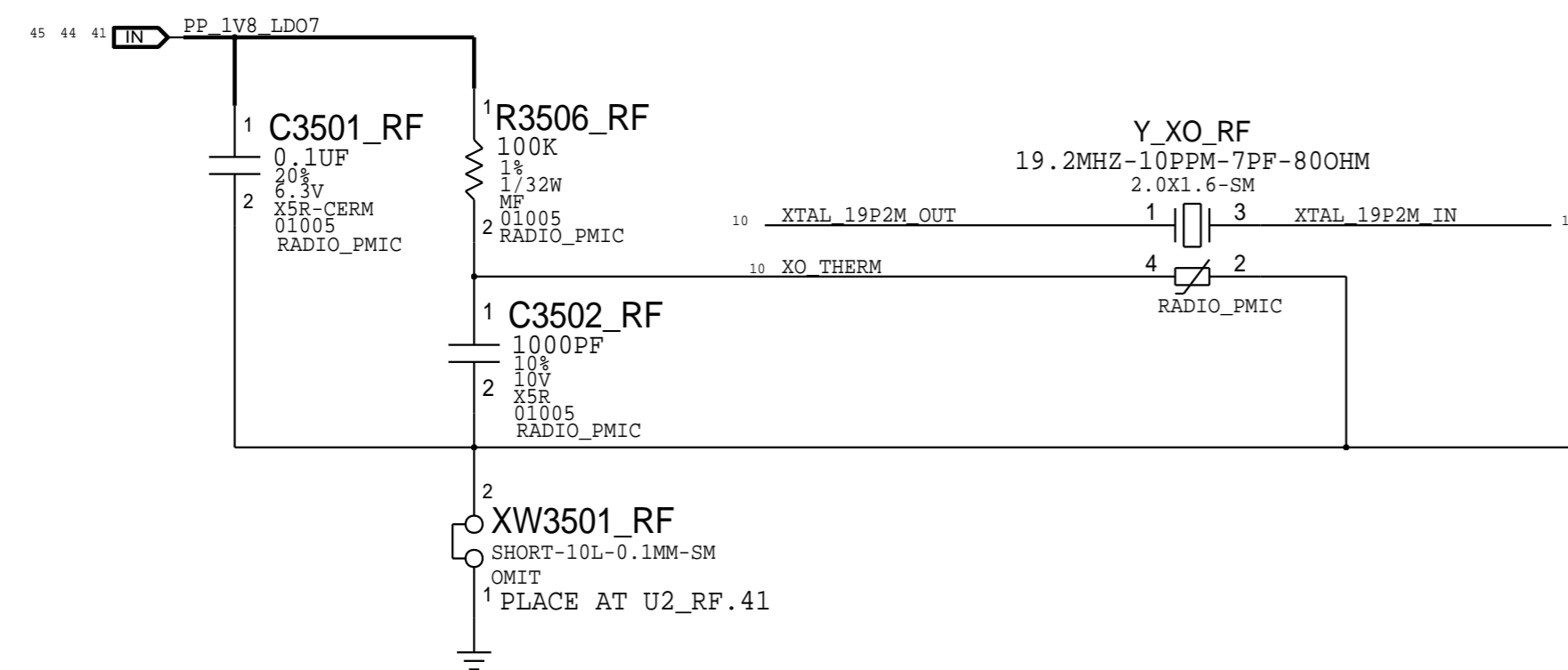


MPPS AND GPIOs: PMU

HW_REV_ID	R3504	R3505	REVISION
0.10V	887K	51.1K	DEV1
0.30V	255K	51.1K	DEV2
0.50V	124K	51.1K	DEV3
0.70V	82.5K	51.1K	DEV4/PROTOMLB1
0.90V	51.1K	51.1K	PROTOMLB2
1.10V	31.6K	51.1K	DEV5/PROTO1
1.20V	50K	100K	PROTO2
1.31V	39K	105K	EVT
1.43V	13.3K	51.1K	EVT_ALT
1.55V	8.25K	51.1K	CARRIER BUILD
1.63V	5.23K	51.1K	DVT
1.80V	10K	-	PVT

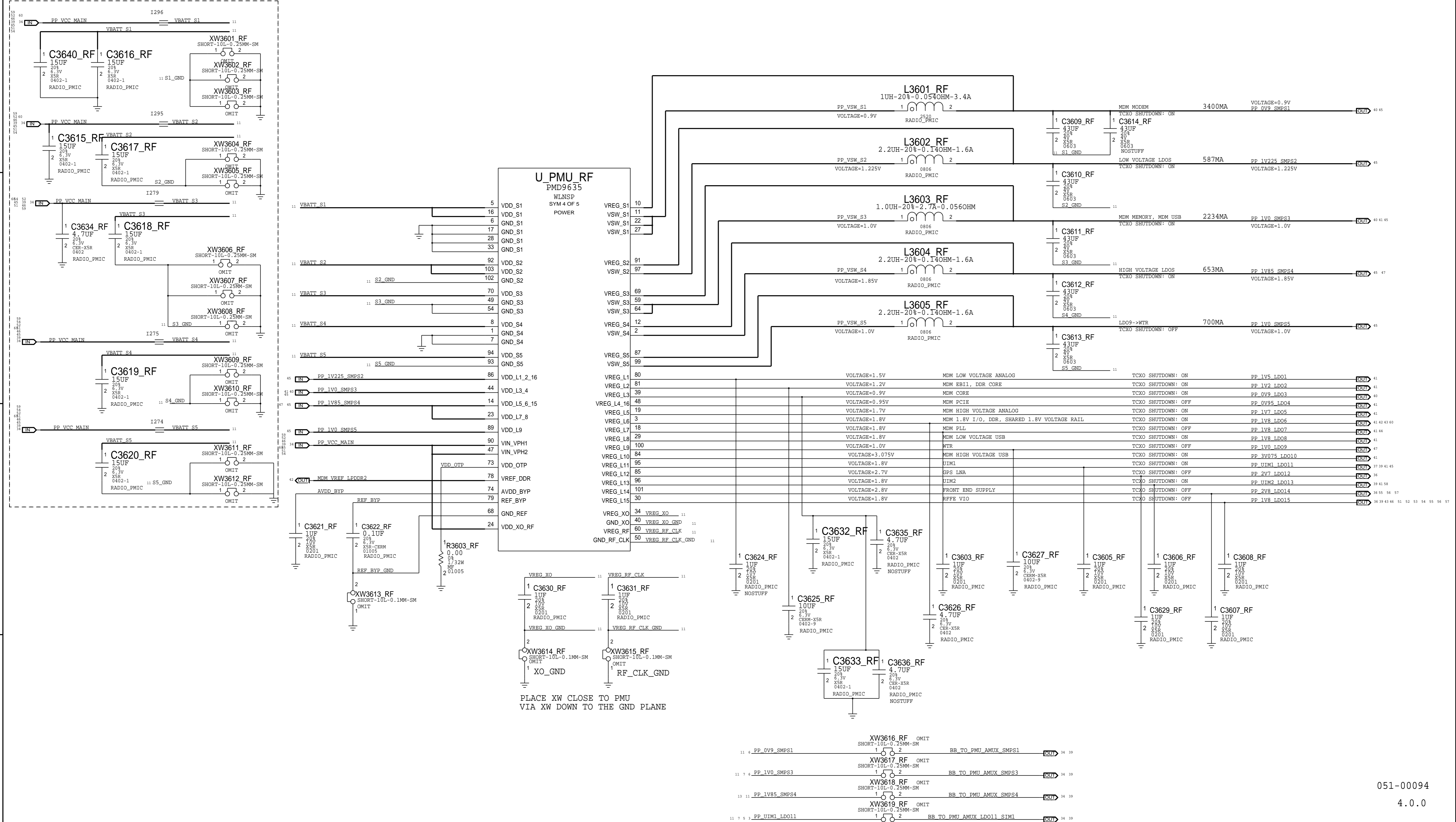


XTAL AND CLOCK: PMU

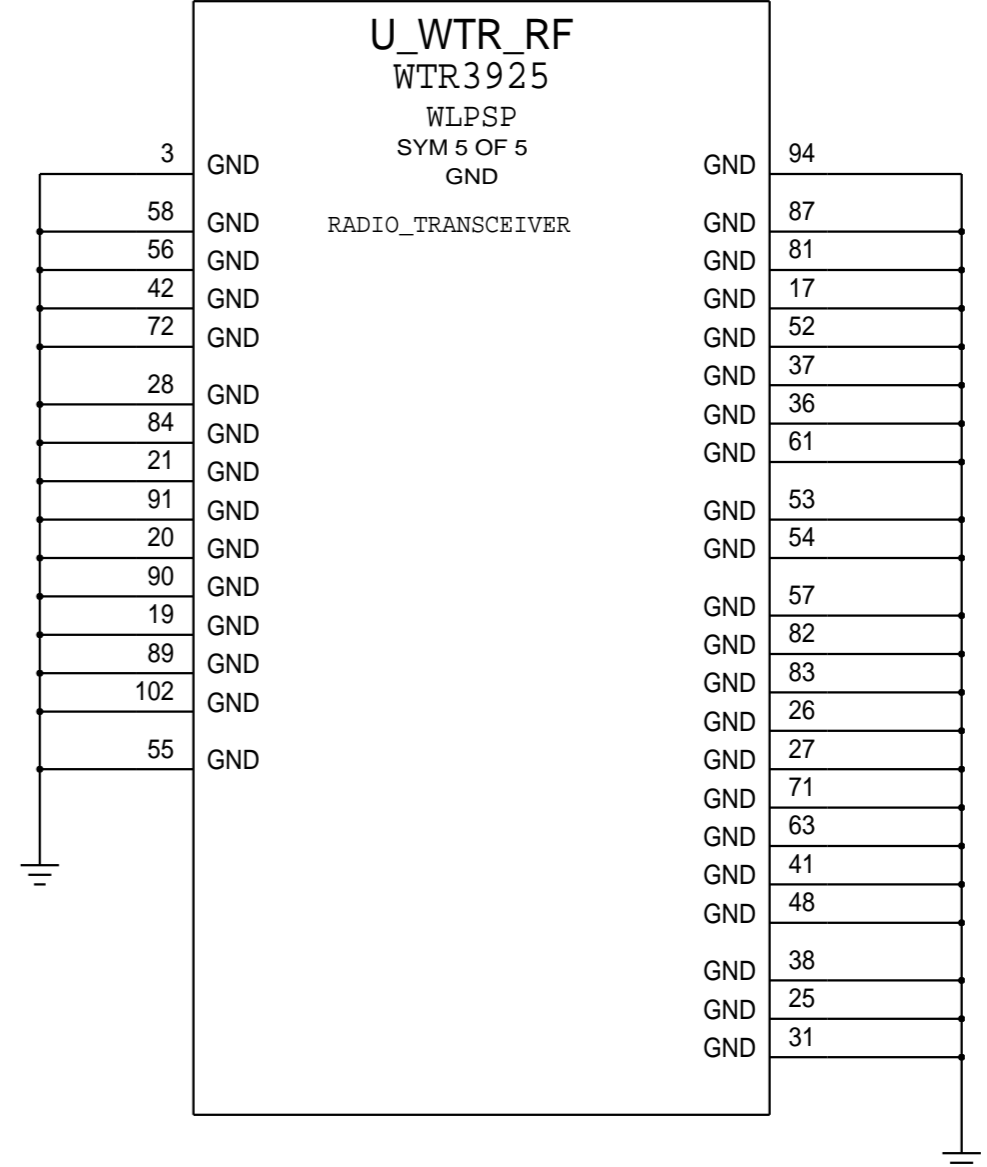
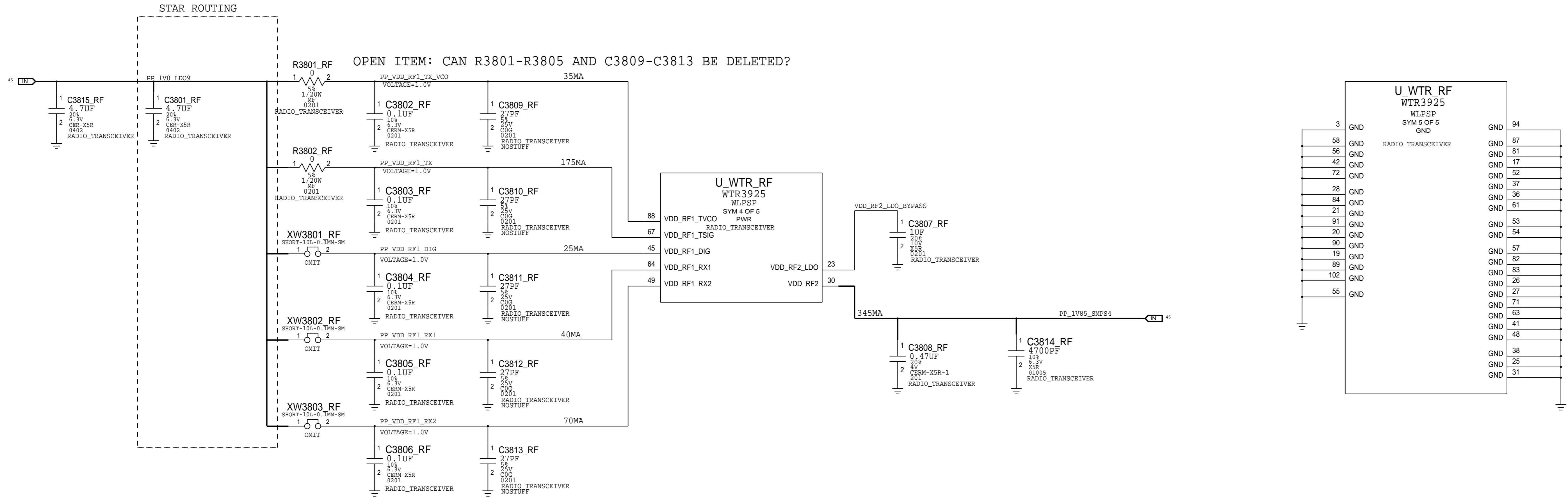


PMU: SWITCHERS AND LDOS

SWITCHERS BULK CAPS

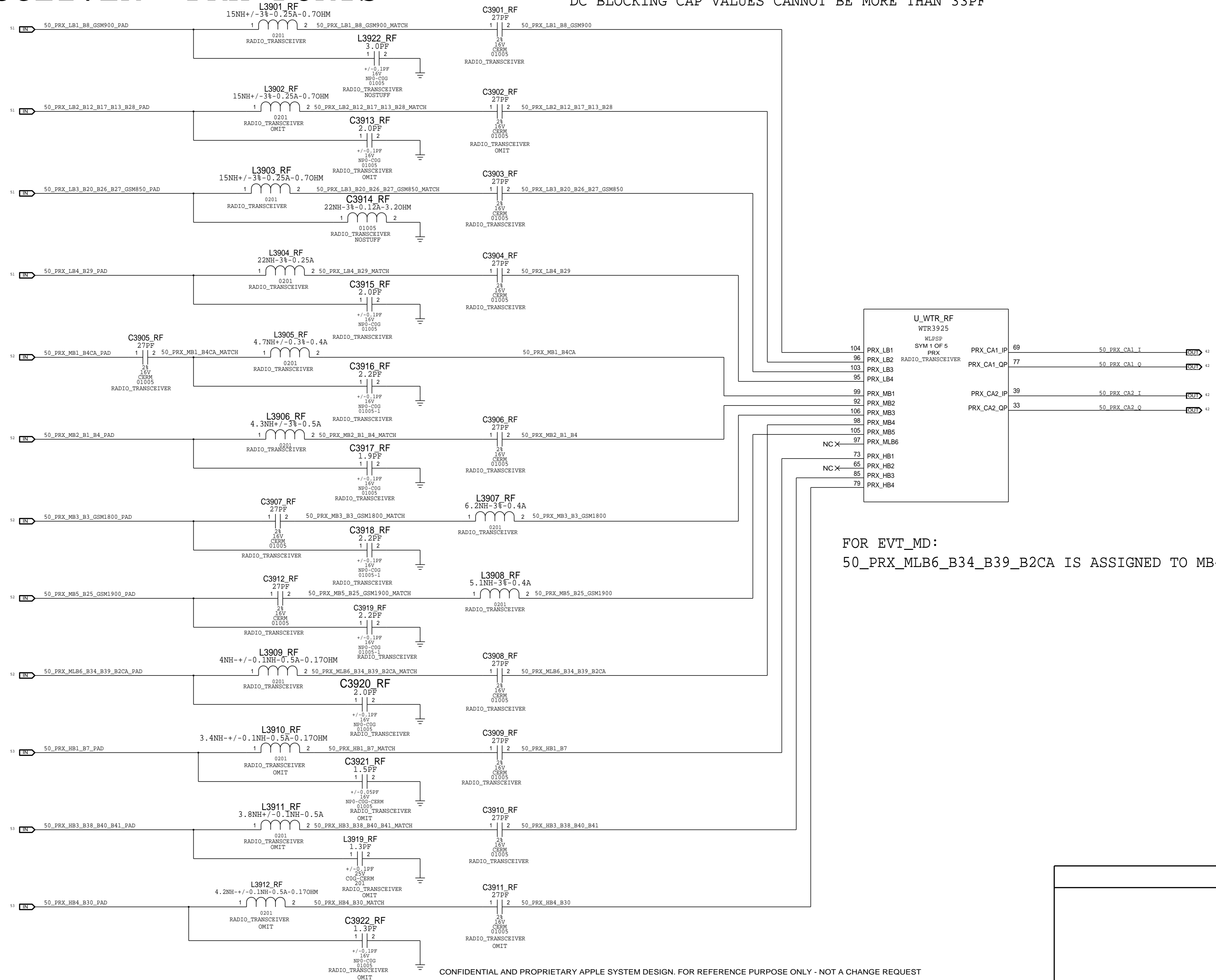


TRANSCEIVER: POWER



TRANSCEIVER: PRX PORTS

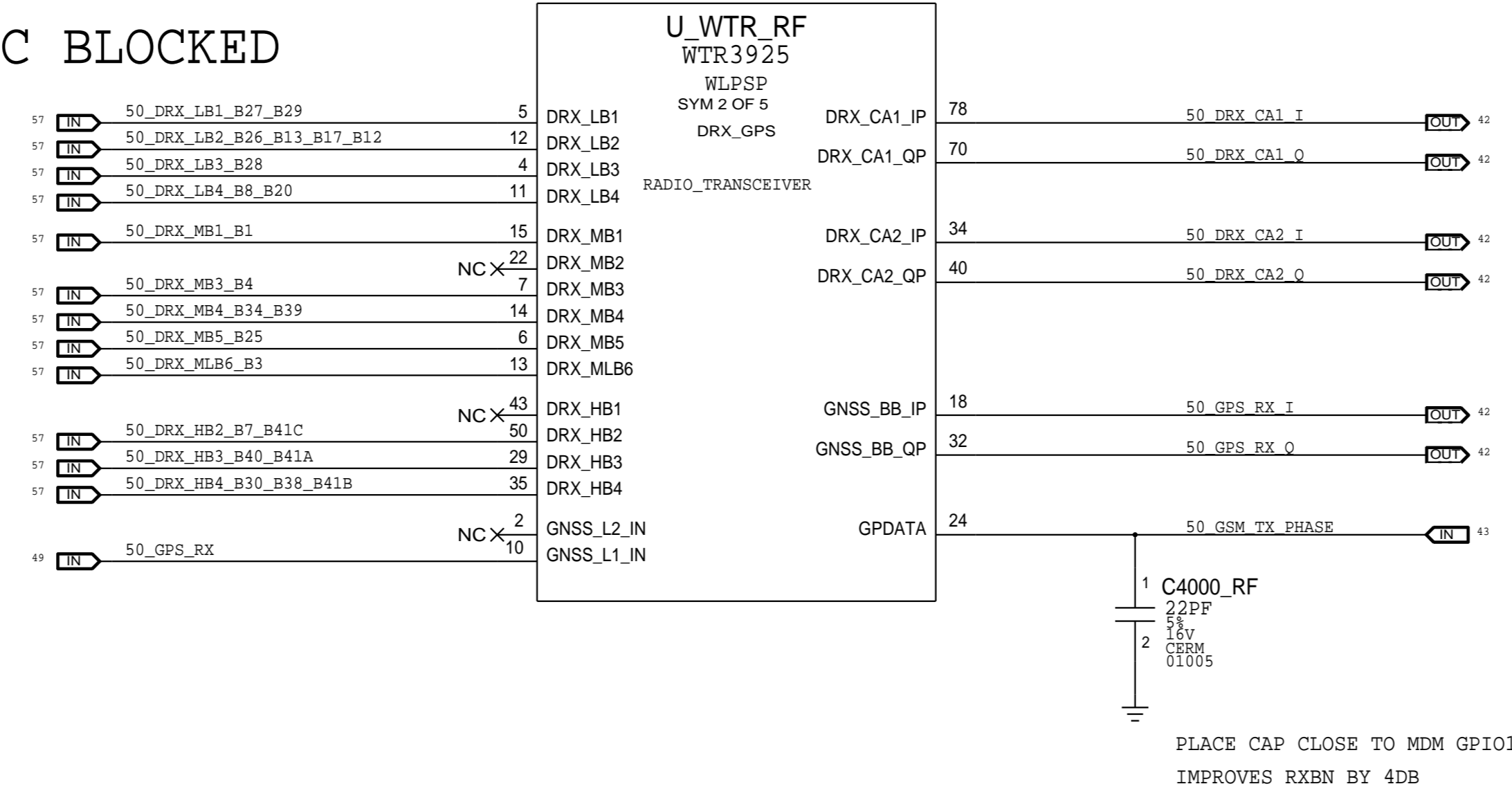
DC BLOCKING CAP VALUES CANNOT BE MORE THAN 33PF



FOR EVT_MD:
50_PRX_MLB6_B34_B39_B2CA IS ASSIGNED TO MB4

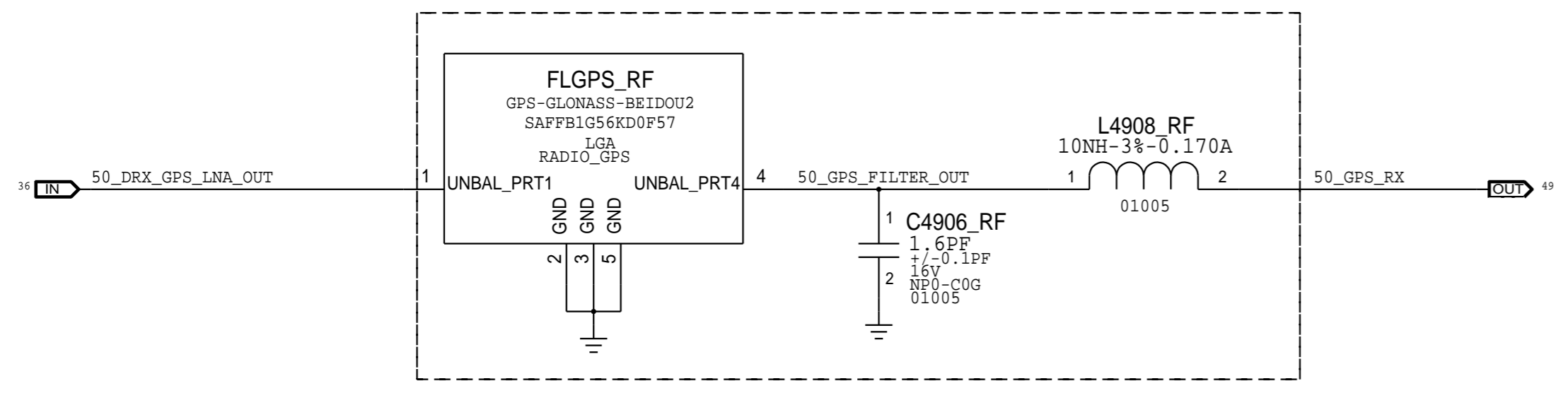
TRANSCEIVER: DRX/GPS PORTS

DRX MODULE PORTS ARE DC BLOCKED

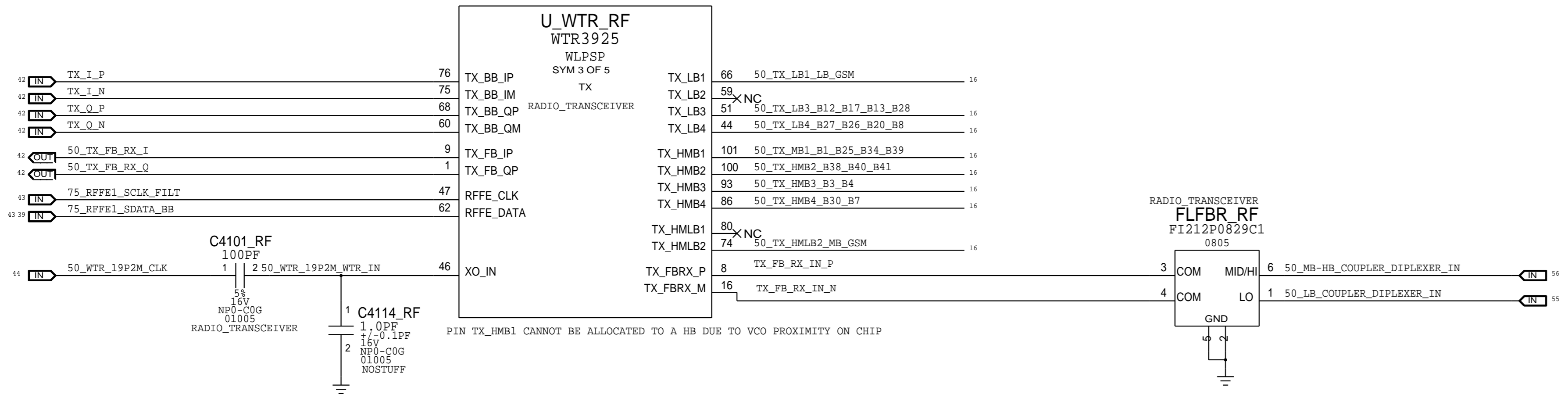


GPS FILTER

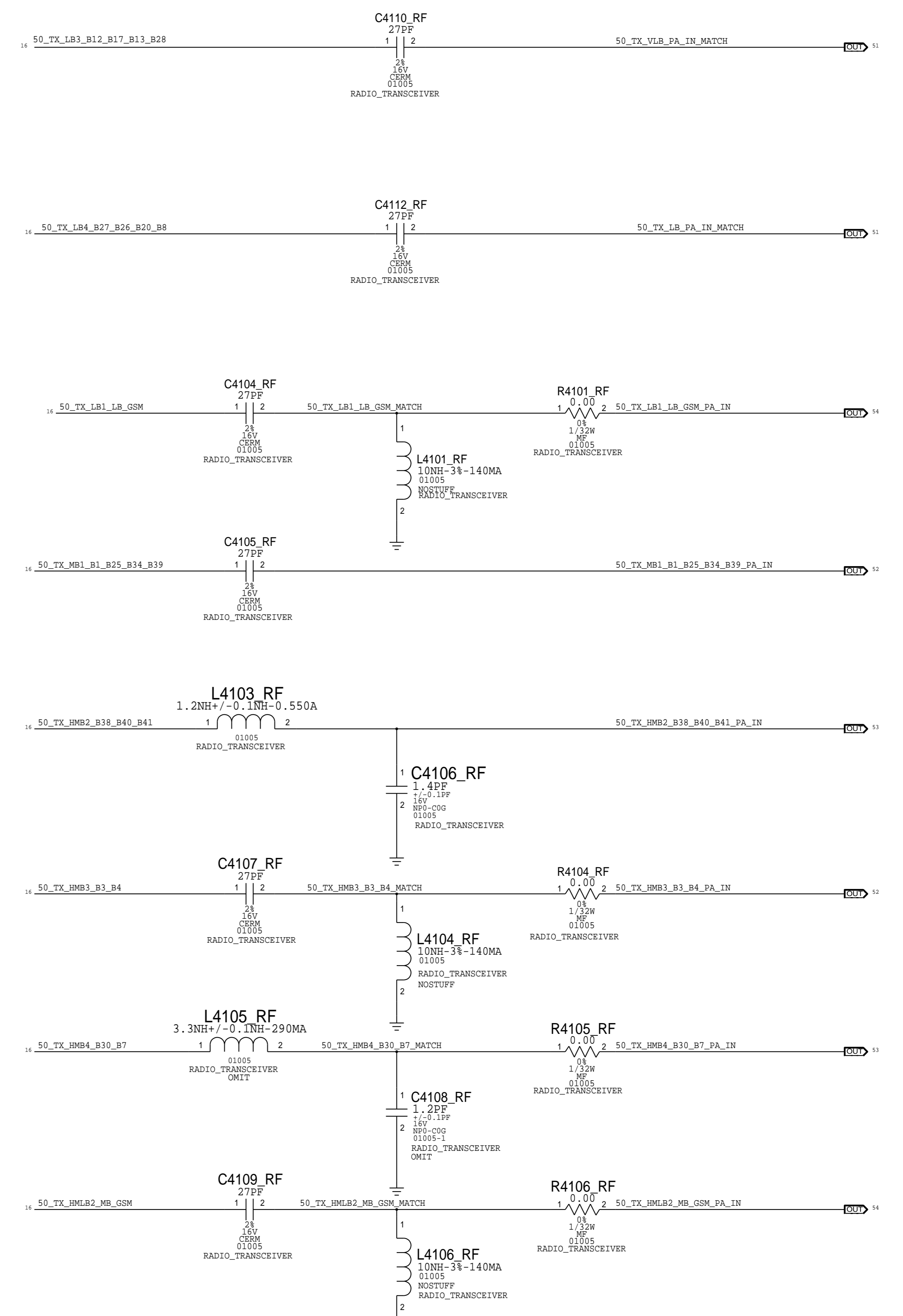
PLACE NEAR U_WTR



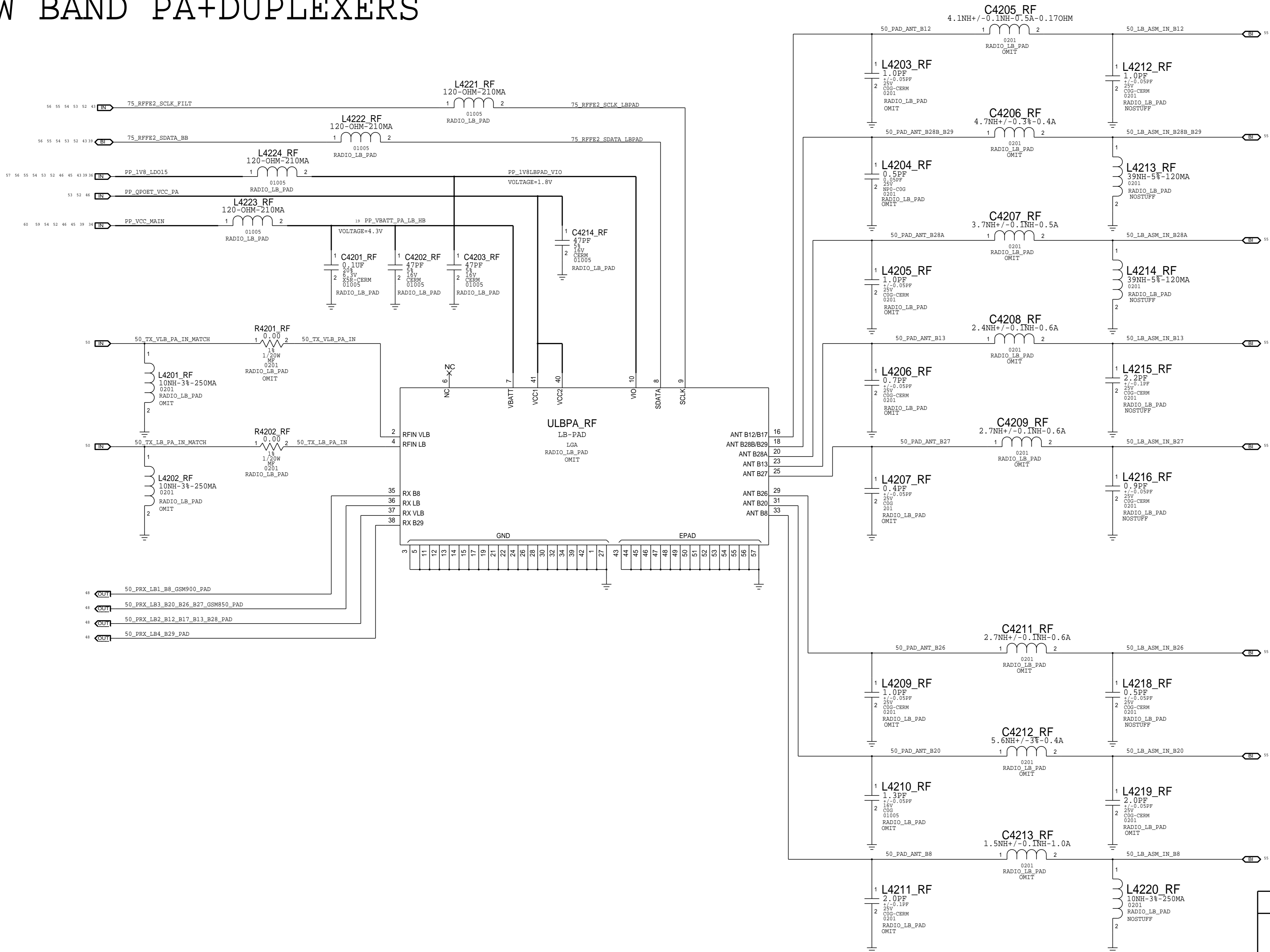
TRANSCEIVER: TX PORTS



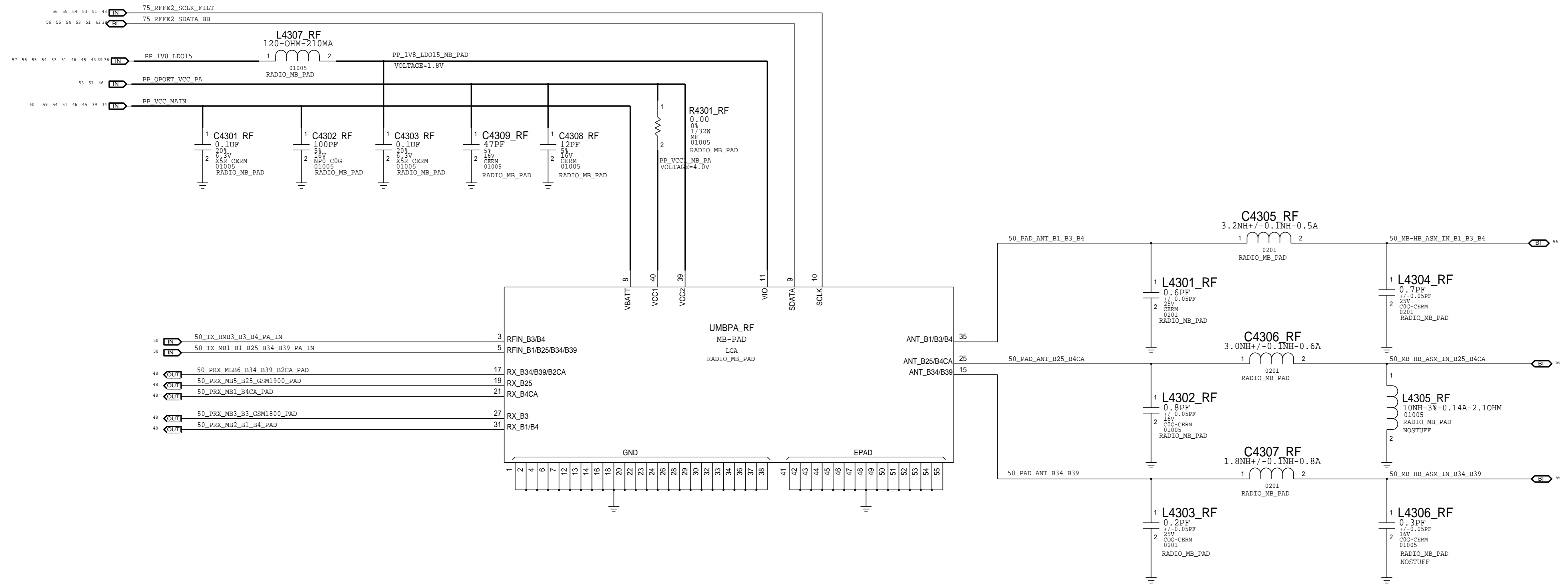
B12/13 TX INTERSTAGE FILTER REMOVED



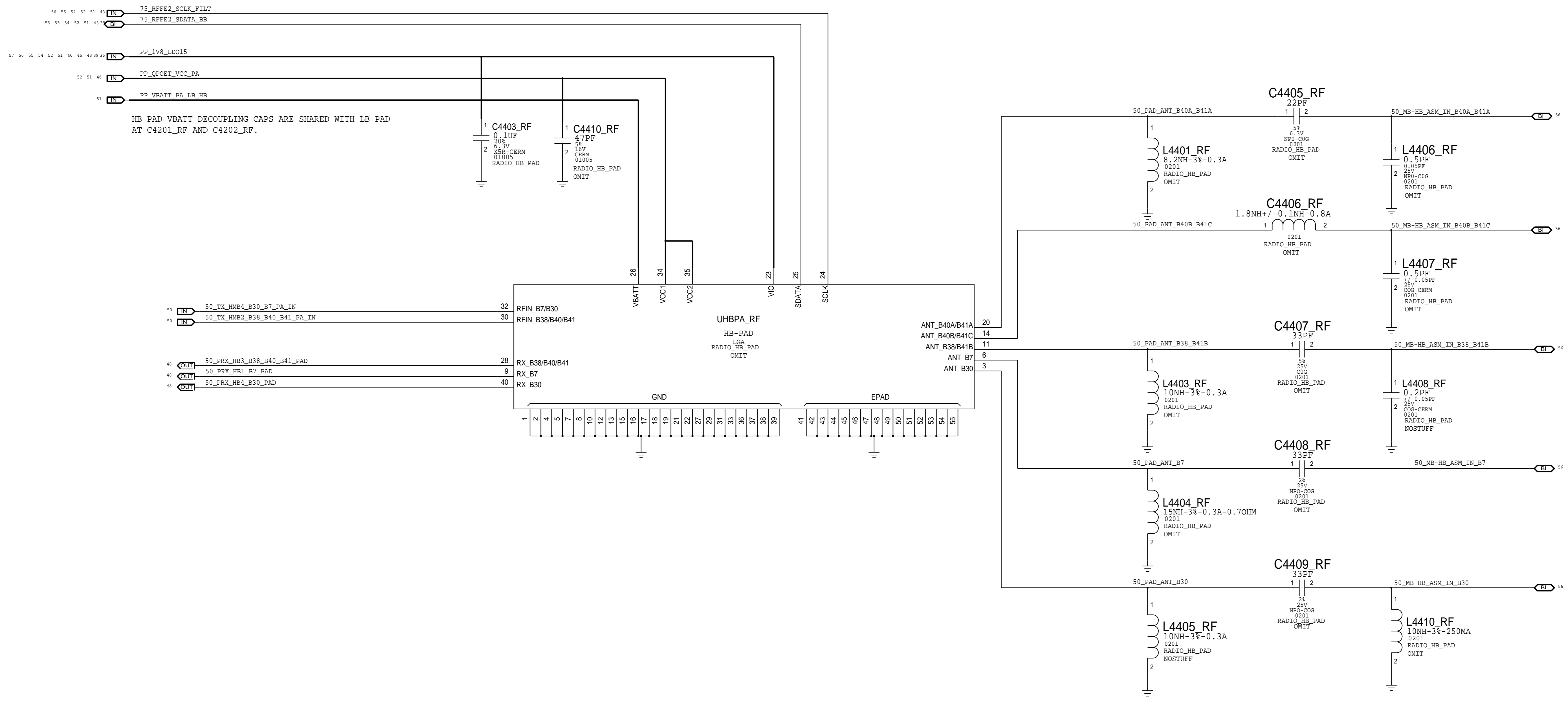
LOW BAND PA+DUPLEXERS



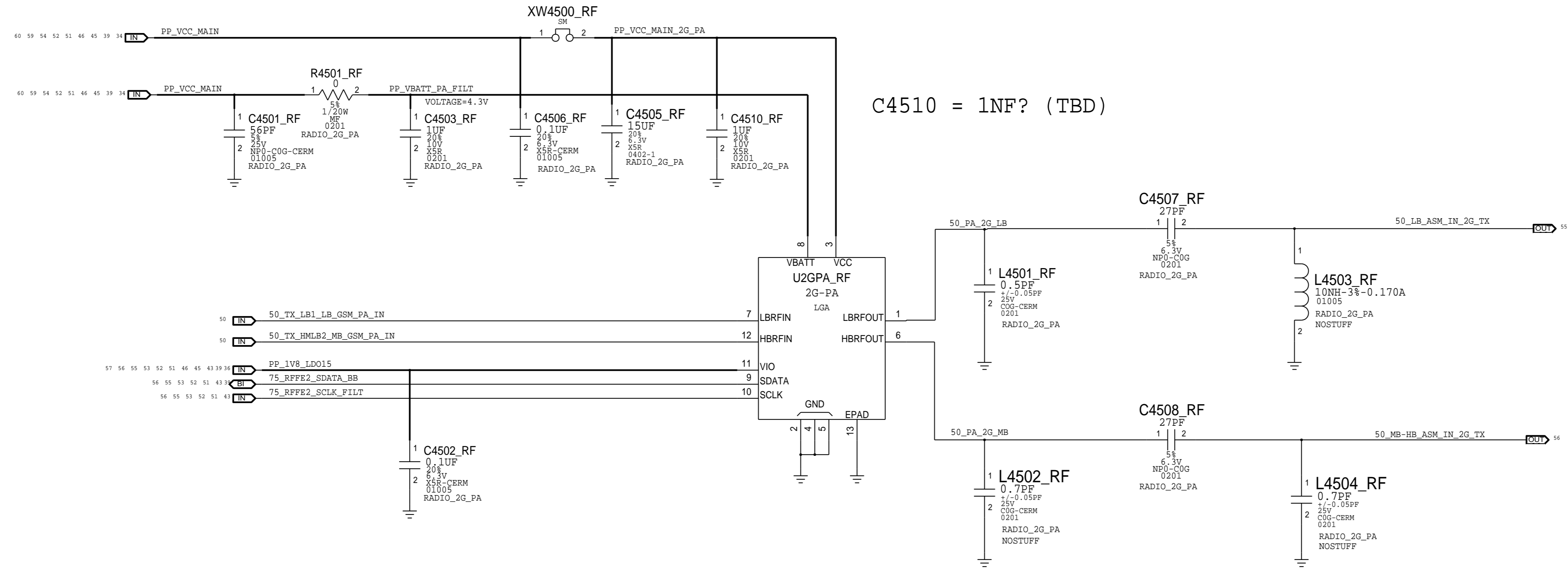
MID BAND PA+DUPLEXERS



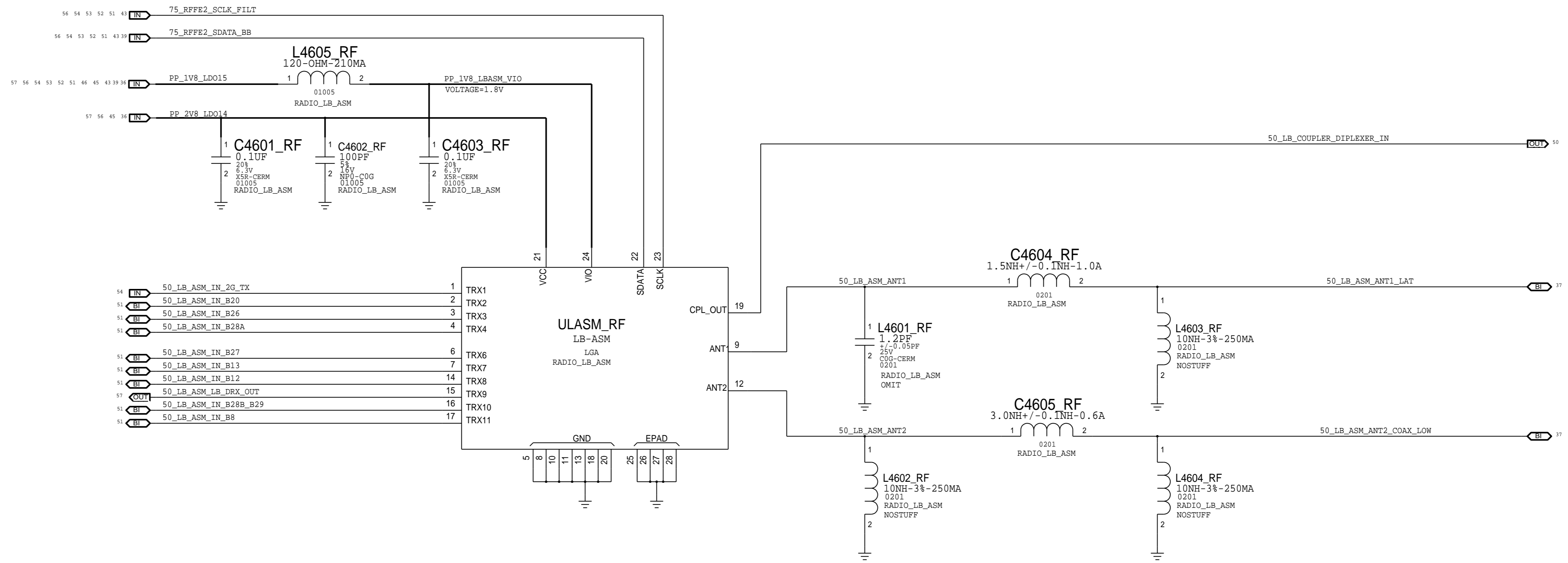
HIGH BAND PA+DUPLEXERS



2G PA

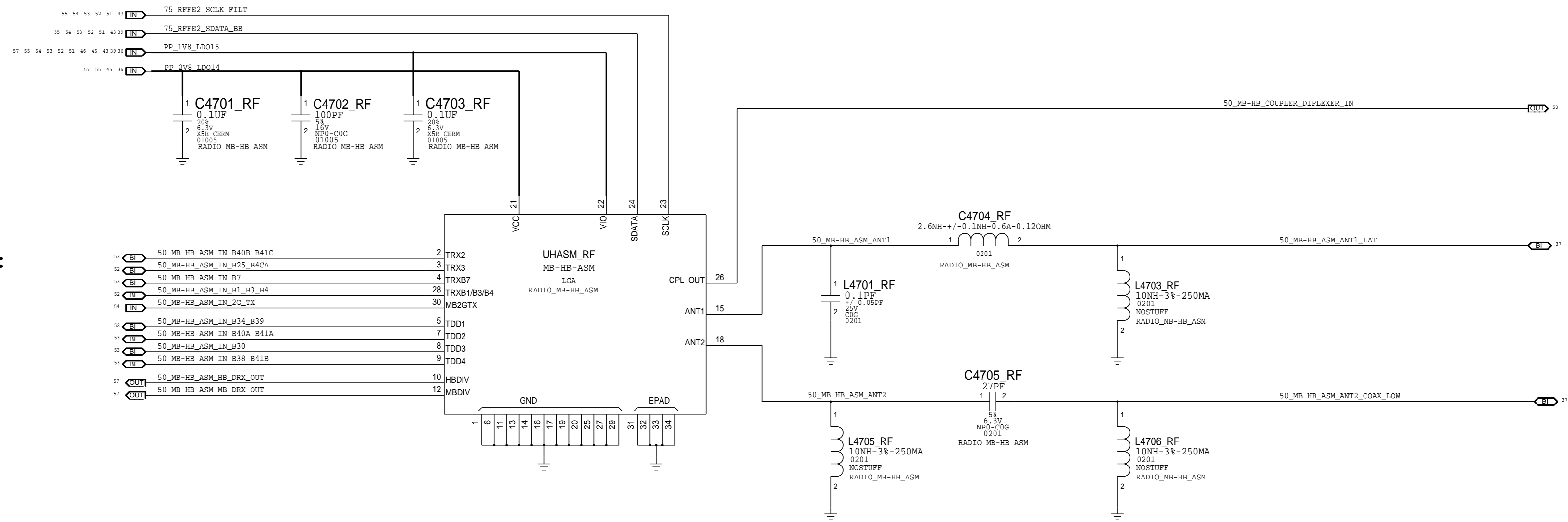


LOW BAND ANTENNA SWITCH MODULE

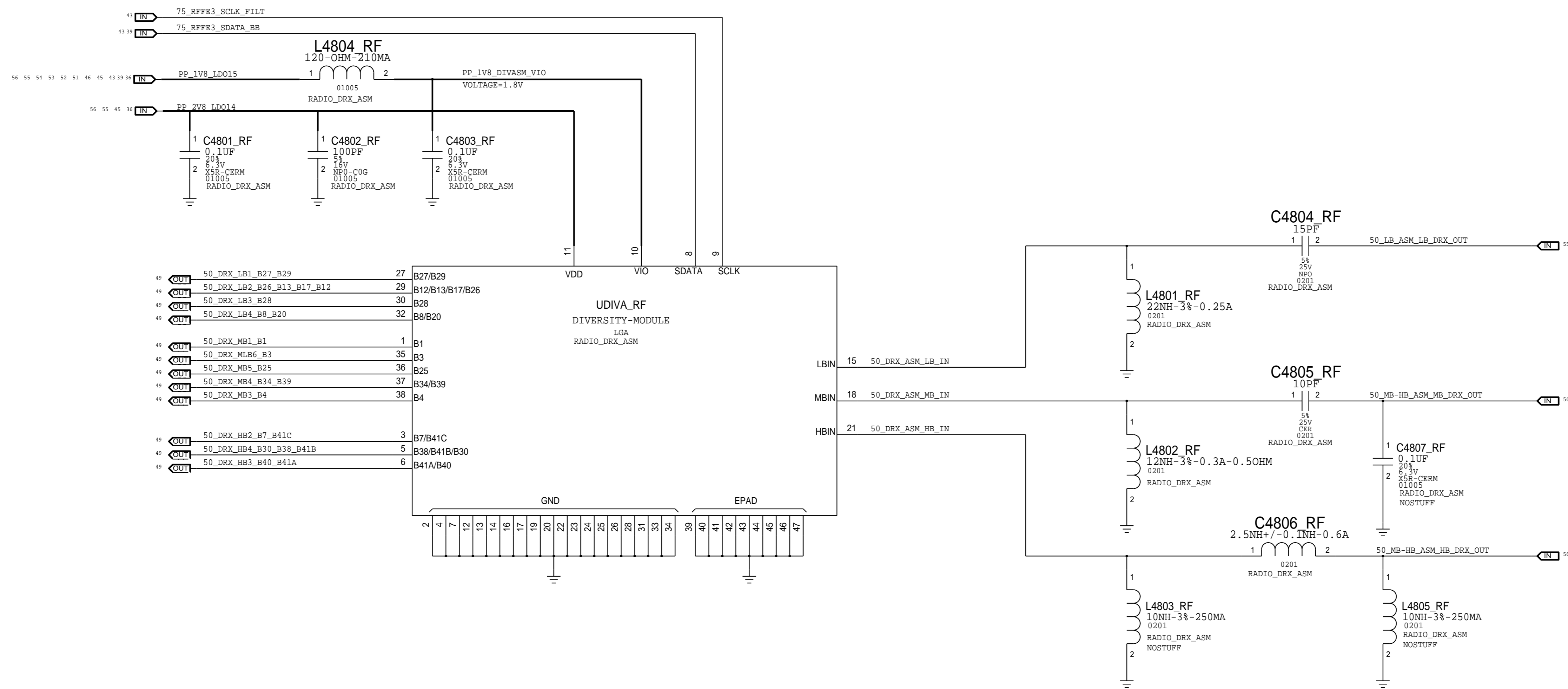


MID-HIGH BAND ANTENNA SWITCH MODULE

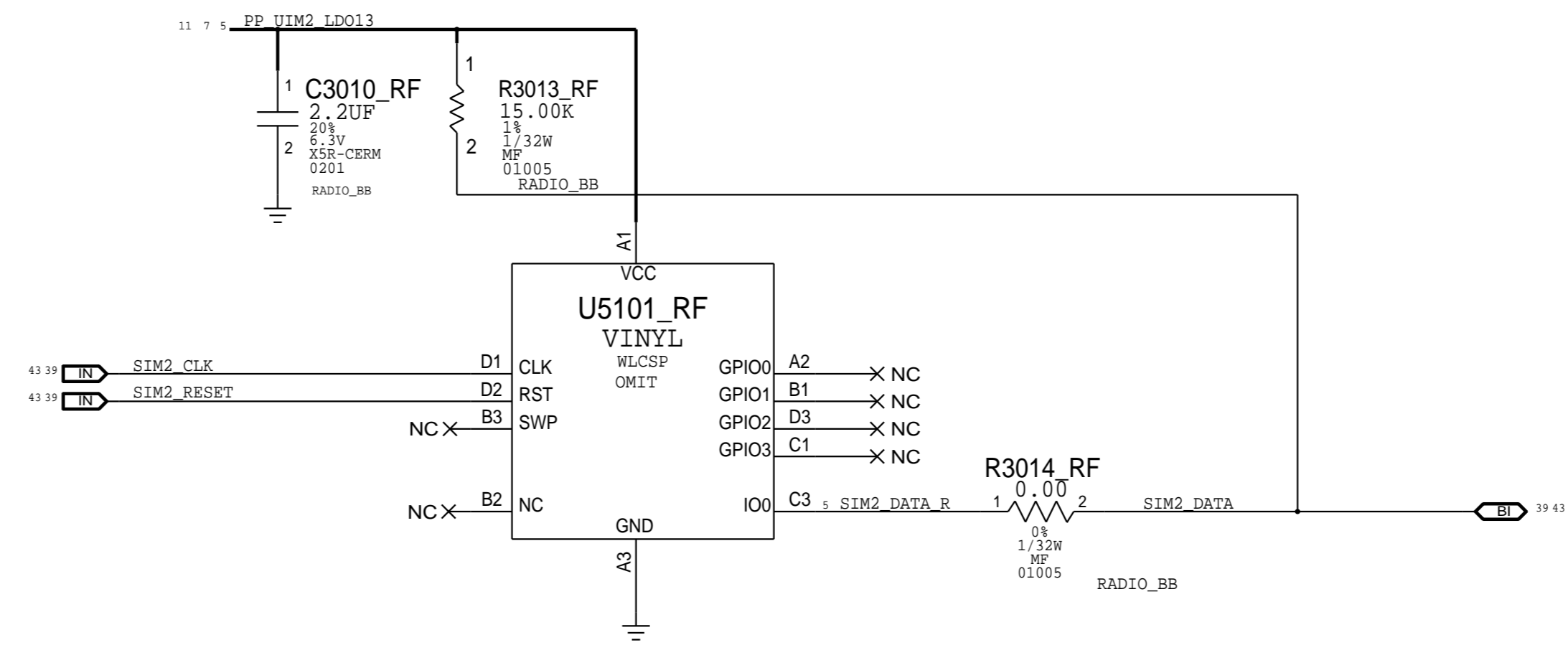
EVT ASM ASSIGNMENT:
 B40B/B41C - TRX2
 B30 - TDD3



DIVERSITY MODULE

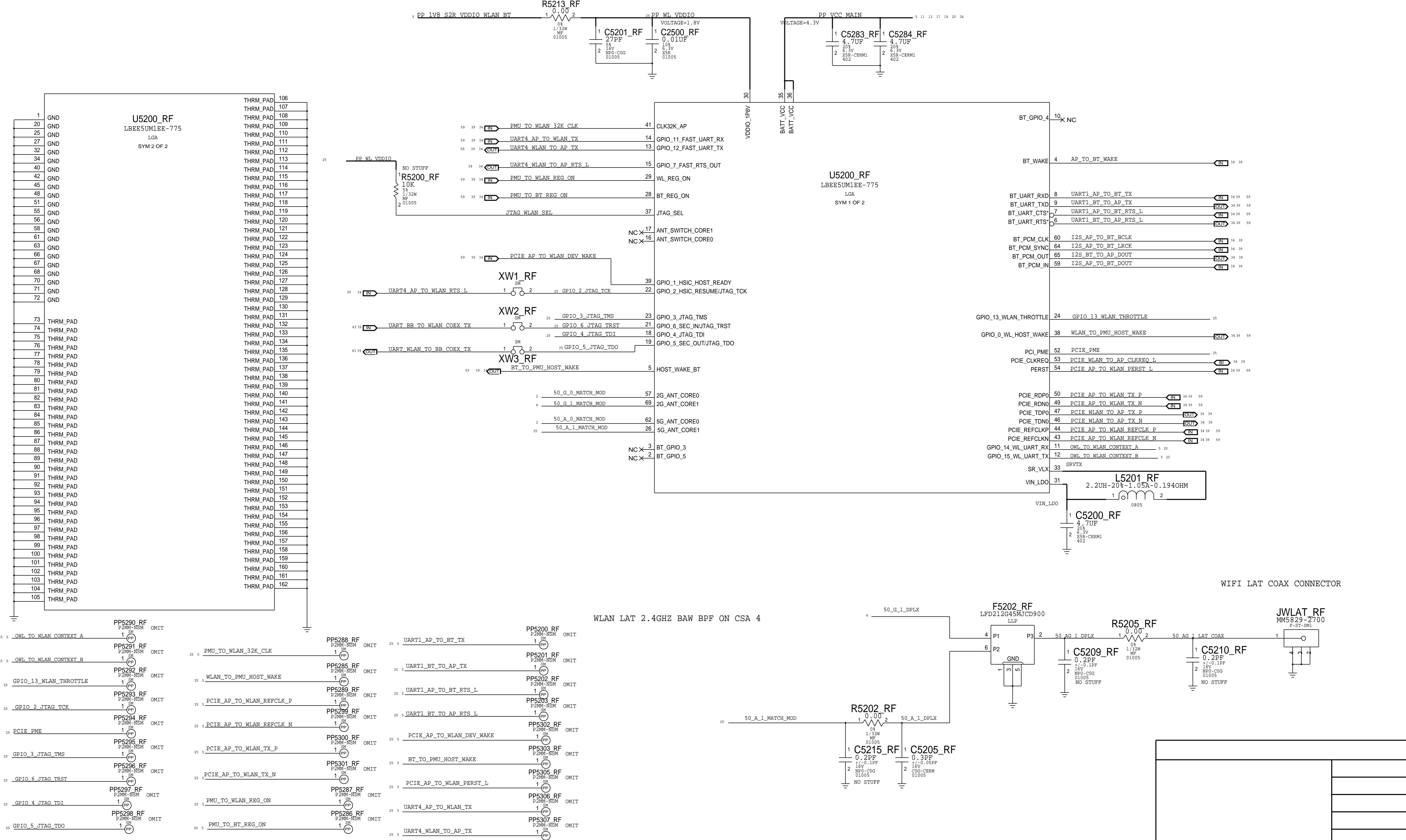


SIM



SIZE

WIFI/BT



STOCKHOLM

ALL NETNAMES NEED TO BE CHECKED

D

D

C

C

B

B

A

A

