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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
A	0004600844	PRODUCTION RELEASED		2015-07-30

N66 MLB - PVT


LAST_MODIFICATION=Thu Jul 30 15:54:57 2015

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SCH 051-00094 BOM 639-00299 (BETTER, DB30)
 BRD 820-00040 BOM 639-00301 (ULTRA, DB30)
 MCO 056-00472 BOM 639-00302 (SUPREME, DB30)
 BOM 639-01063 (BETTER, B30)
 BOM 639-01064 (ULTRA, B30)
 BOM 639-01065 (SUPREME, B30)

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DRAWING TITLE		SCHEM, MLB, N66	
 Apple Inc.	DRAWING NUMBER	051-00094	SIZE
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Active Diode Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376S00106	376S00047	ALTERNATE	Q2300	DIODES INC. ACT DIODE

NAND BOM Options

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00039	1	NAND_1Y9M_16028_83E_64G_T_SLGA70	U1500	CRITICAL	NAND_16G
335S00075	1	NAND_1Y9M_64028_83E_64G_H_SLGA70	U1500	CRITICAL	NAND_64G
335S00079	1	NAND_1Y9M_64028_83E_128G_H_SLGA70	U1500	CRITICAL	NAND_128G

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00074	335S00039	NAND_16G	U1500	HYMIX 16G SLGA70 C DIE
335S00078	335S00075	NAND_64G	U1500	HYMIX 64G SLGA70
335S00064	335S00075	NAND_64G	U1500	SANDISK 64G SLGA70 1Z
335S00065	335S00079	NAND_128G	U1500	SANDISK 128G SLGA70

Carbon BOM Options

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S1163	1	DISCRETE ACCEL, BOSCH	U3030	CRITICAL	NOSTUFF
338S1163	1	DISCRETE ACCEL, BOSCH	U3030	CRITICAL	CARBON_INVENSENSE
338S00017	1	CARBON, INVENSENSE	U3010	CRITICAL	CARBON_INVENSENSE
338S00087	1	CARBON, INVENSENSE MPU-6800	U3010	CRITICAL	CARBON_INVENSENSE_6800

Power Inductor Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S00118	152S00075	ALTERNATE	\$?	IND_PWR_SERD.1.2 10K 3.6A 0.000 00M 2014
152S00120	152S00077	ALTERNATE	\$?	IND_PWR_SERD.1.0 10K 3.6A 0.100 00M 2014
152S2052	152S1929	ALTERNATE	\$?	IND_PWR_SERD.1.0A 0.100 00M 2014

DDR PLL Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S00095	155S00068	ALTERNATE	FL1280	FERR 80 1000M 210 1000M 200M 01005

SEP EEPROM Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00066	335S0946	ALTERNATE	U0900	IC EEPROM 16000 1 8K 120 0000M 000005

Low Noise Caps

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
138S0867	3	CAP_XSR_100P_20A_4_3V_0_050M_0402L_0402	C2085, C2086, C2087	CAPS_NORMAL
998-01223	3	CAP_XSR_100P_20A_4_3V_0_050M_0402_138TPO08R	C2085, C2086, C2087	CAPS_LOW_NOISE

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_DB30
825-6838	1	EEEE CODE FOR 639-00301	EEEE_G35W	CRITICAL	EEEE_ULTRA_DB30
825-6838	1	EEEE CODE FOR 639-00302	EEEE_G35V	CRITICAL	EEEE_SUPREME_DB30
825-6838	1	EEEE CODE FOR 639-01063	EEEE_GKXY	CRITICAL	EEEE_BETTER_B30
825-6838	1	EEEE CODE FOR 639-01064	EEEE_GKLD	CRITICAL	EEEE_ULTRA_B30
825-6838	1	EEEE CODE FOR 639-01065	EEEE_GKLI	CRITICAL	EEEE_SUPREME_B30
825-6838	1	EEEE CODE FOR 939-01539	EEEE_GPMW	CRITICAL	EEEE_BETTER_DARWIN

Global Capacitor Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
118S0764	118S0717	ALTERNATE	?	RES, 3.92K, 0.1%, 0201
138S0702	138S0657	ALTERNATE	?	CAP, XSR, 4.3UF, 4V, 0610
138S00006	138S0835	ALTERNATE	?	CAP, 3-TERM, 4.3UF, 4V, 0402
138S00005	138S00003	ALTERNATE	?	CAP_XSR_100P_4_3V_0_050M_0402_TAIYO
138S00048	138S00003	ALTERNATE	?	CAP_XSR_100P_4_3V_0_050M_0402_00000A
138S0648	138S0652	ALTERNATE	?	CAP_XSR_4_700_4_3V_0_050M_0402_TAIYO
132S0400	132S0436	ALTERNATE	?	CAP_XSR_0.100UF_6.3V_01005_T20
138S00032	138S0831	ALTERNATE	?	CAP_XSR_2.2UF_4.3V_0201_TAIYO
138S00049	138S0831	ALTERNATE	?	CAP_XSR_2.2UF_4.3V_0201_00000A
138S00024	138S0986	ALTERNATE	?	IND_PWR_SERD.1.0 10K 3.6A 0.100 00M 2014
138S0706	138S0739	ALTERNATE	?	CAP_XSR_100P_20A_4_3V_0_050M_0402_00000A
138S0945	138S0739	ALTERNATE	?	CAP_XSR_100P_20A_4_3V_0_050M_0402_00000A

Global Ferrite Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S2052	152S1929	ALTERNATE	?	IND, 1UH, 1.2A, 0603
155S0773	155S0453	ALTERNATE	?	FERR, 12000M, 0.3000M DCB, 01005
155S0653	155S0511	ALTERNATE	?	FERR, 3300M, 0.0900M DCB, 0201
155S00067	155S0581	ALTERNATE	?	FERR, 2400M, 0.3800M DCB, 0201
155S00012	155S00009	ALTERNATE	?	FLTR, 65 OHMS, 0605
155S0960	155S0941	ALTERNATE	?	FERR, 70 OHMS, 01005
155S0660	155S0513	ALTERNATE	?	FERR, 22 OHMS, 0201

Global Varistor Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
377S0168	377S0140	ALTERNATE	?	VARIATOR, 4 RV, 100PF, 01005

Inductor Sub BOMs

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
685-00083	1	SUBBOM_SINGLE_BRD_CYNTEC_N66	SUBBOM_IND	COMMON
152S00074	12	IND_PWR_SERD.1.0 10K 3.6A 0.0600 0M 2014		CYNTEC
152S00081	6	IND_PWR_SERD.0.470H 3.6A 0.048 00M 2012	L2001, L2003, L2011, L2013, L2021, L2041	CYNTEC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S00117	12	IND_PWR_SERD.1.0 10K 3.6A 0.0600 0M 2014		TAIYO
152S00121	6	IND_PWR_SERD.0.470H 3.6A 0.048 00M 2012	L2001, L2003, L2011, L2013, L2021, L2041	TAIYO

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00082	685-00083	ALTERNATE	SUBBOM_IND	SUBBOM_SINGLE_BRD_TAIYO_N66

SOC/PMU SUB BOMS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
685-00071	1	SUBBOM_MLB_MAU1_N66	SUBBOM_SOC	COMMON
338S00120	1	IC_PMU_ANTIQUA_A1_AL_WLCSF380	U2000	MAUI
118S0631	1	RES_MF_100 OHM 1% 1/32W 01005	R0730	MAUI
131S0307	1	CAP_CER_NP0_C0G_100PF_5A_16V_01005	C0730	MAUI
339S00112	1	PROD FUSED, M DRAM	U0600	MAUI
117S0161	1	RES_MF_0 OHM 01005	R0651	MAUI

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
338S00122	1	IC_PMU_ANTIQUA_A1_ZL_WLCSF380	U2000	MALTA
118S00009	1	RES_MF_3.01KOHM 1% 1/32W 01005	R0730	MALTA
131S0307	1	CAP_CER_NP0_C0G_100PF_5A_16V_01005	C0730	NOSTUFF
339S00124	1	M PROD FUSED, M DRAM	U0600	MALTA
118S00025	1	RES_MF_330 OHM 1% 1/32W 01005	R0651	MALTA

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00072	685-00071	ALTERNATE	SUBBOM_SOC	SUBBOM_MLB_MALTA_N66

AP Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S00113	339S00112	MAUI	U0600	PROD FUSED, M DRAM
339S00114	339S00112	MAUI	U0600	PROD FUSED, S DRAM

339S00125	339S00124	MALTA	U0600	M PROD FUSED, M DRAM, ATK
339S00126	339S00124	MALTA	U0600	M PROD FUSED, S DRAM, ATK
339S00127	339S00124	MALTA	U0600	M PROD FUSED, M DRAM, SCK
339S00128	339S00124	MALTA	U0600	M PROD FUSED, S DRAM, SCK
339S00129	339S00124	MALTA	U0600	M PROD FUSED, S DRAM, SCK

Shield Callouts

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
806-04265	1	LOWER FRONT SHIELD	SH0501	CRITICAL	COMMON

SIM Callouts

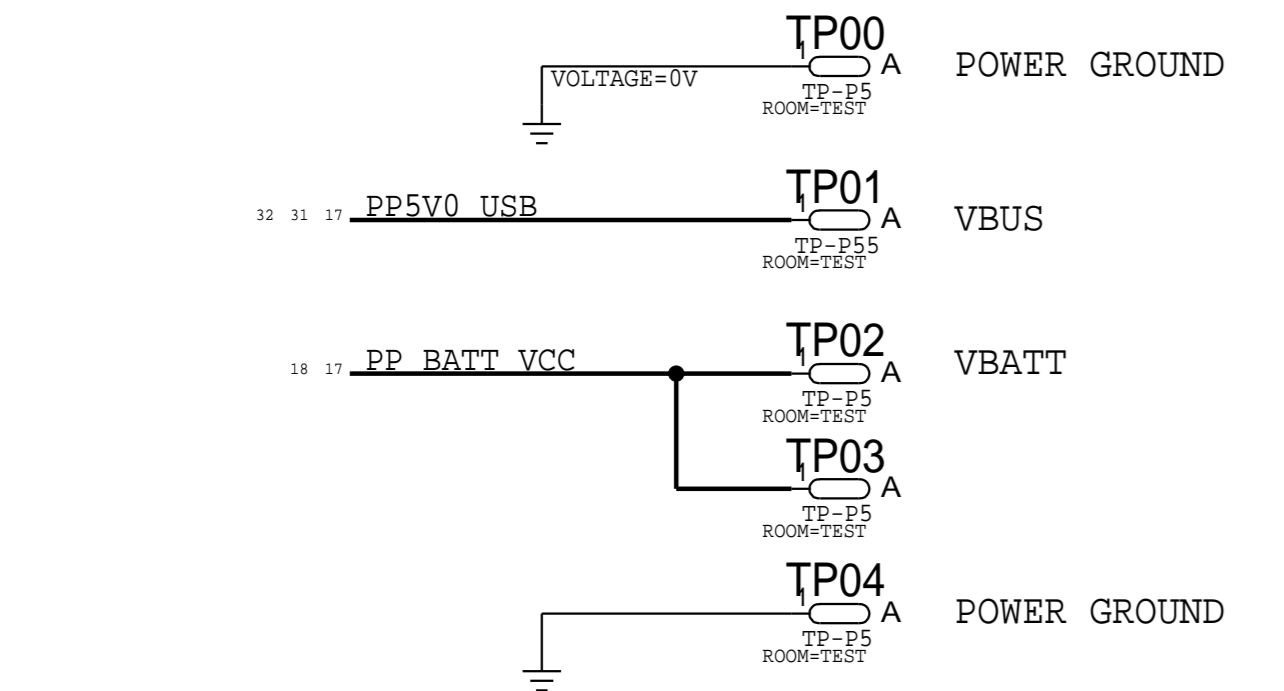
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
512S00013	1	SIM, Integrated Eject, N66	J3001_RF	CRITICAL	COMMON

<http://www.mfcbox.com>

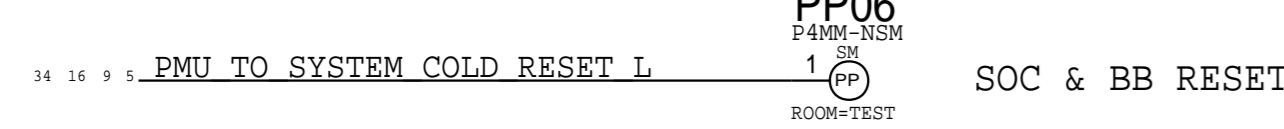
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TESTPOINTS

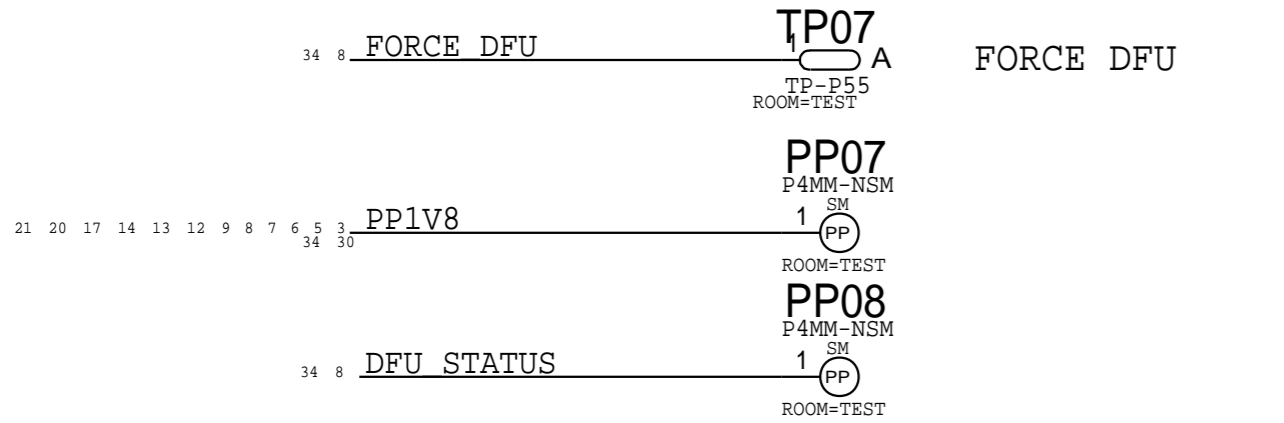
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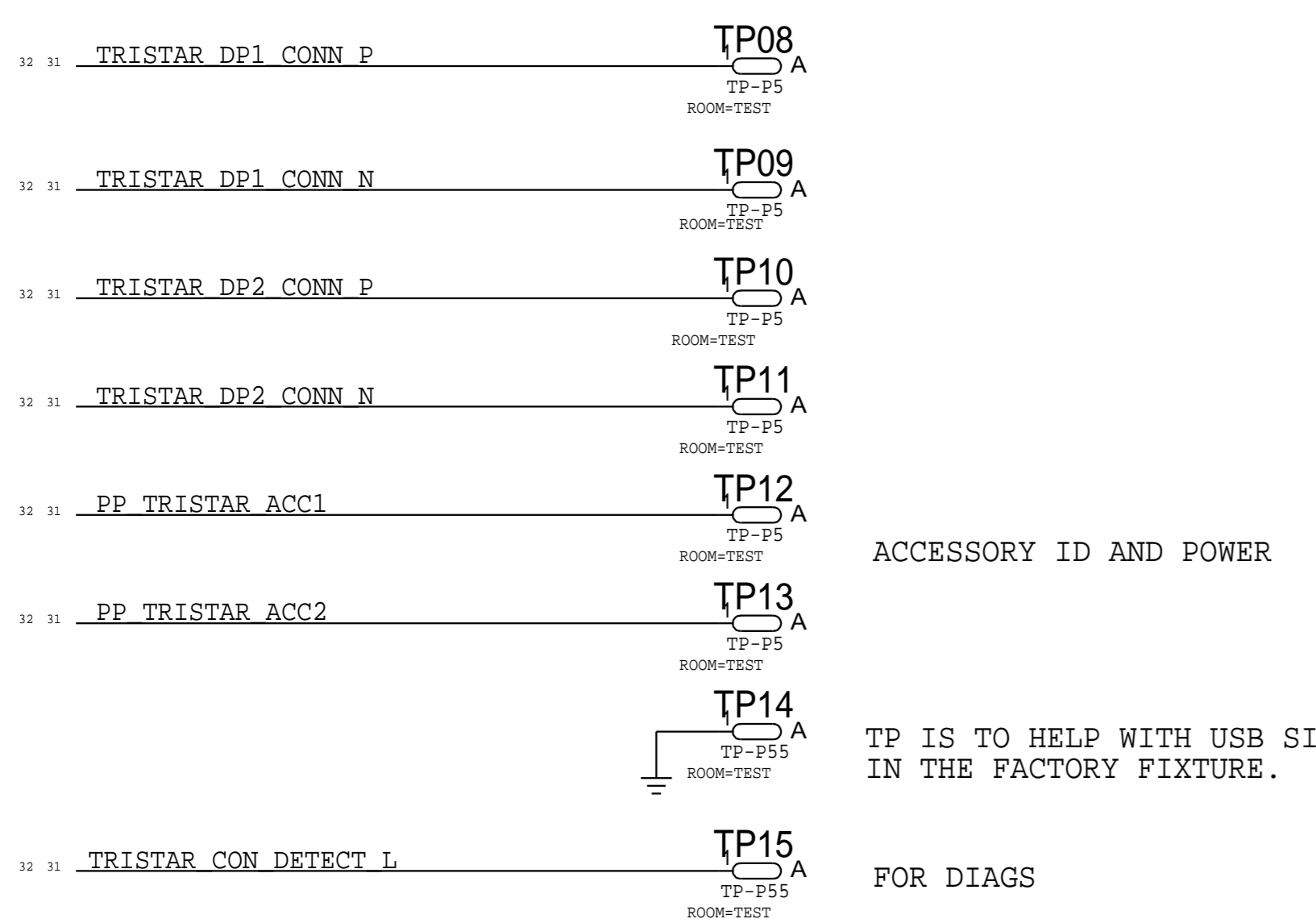
RESET



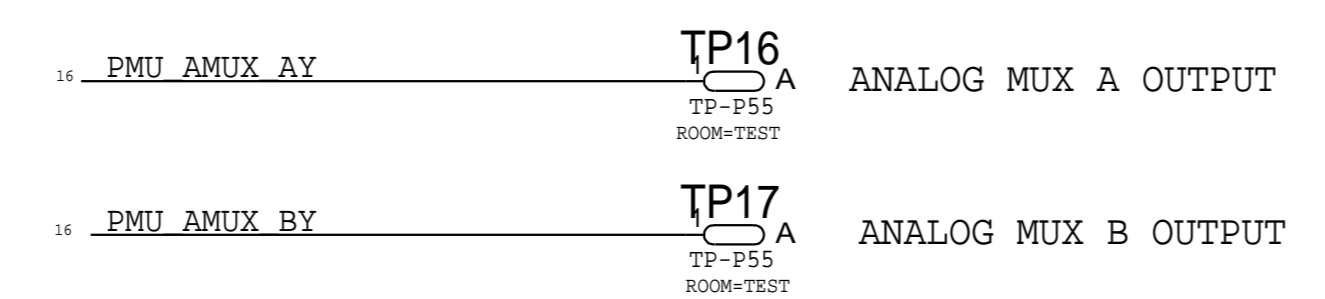
DFU



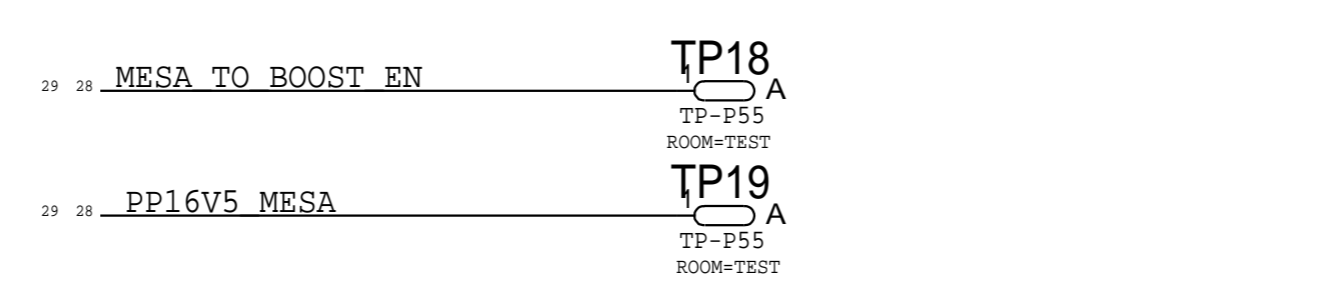
E75



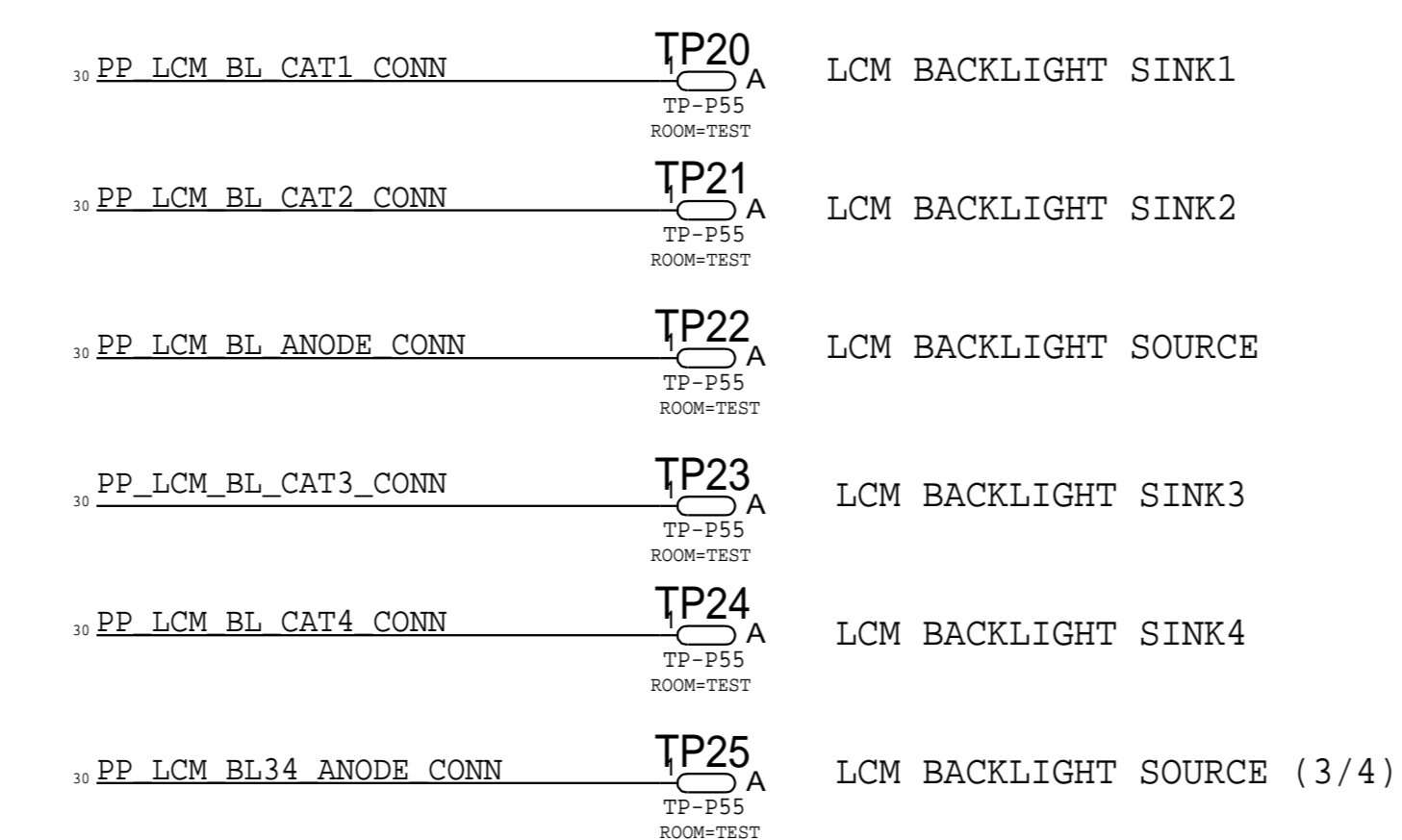
AMUX



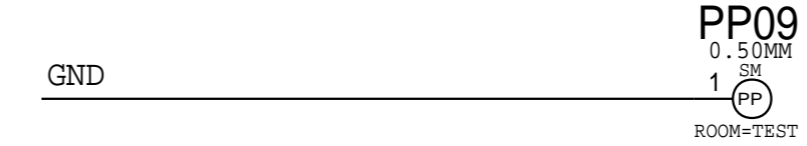
MOJAVE



LCM



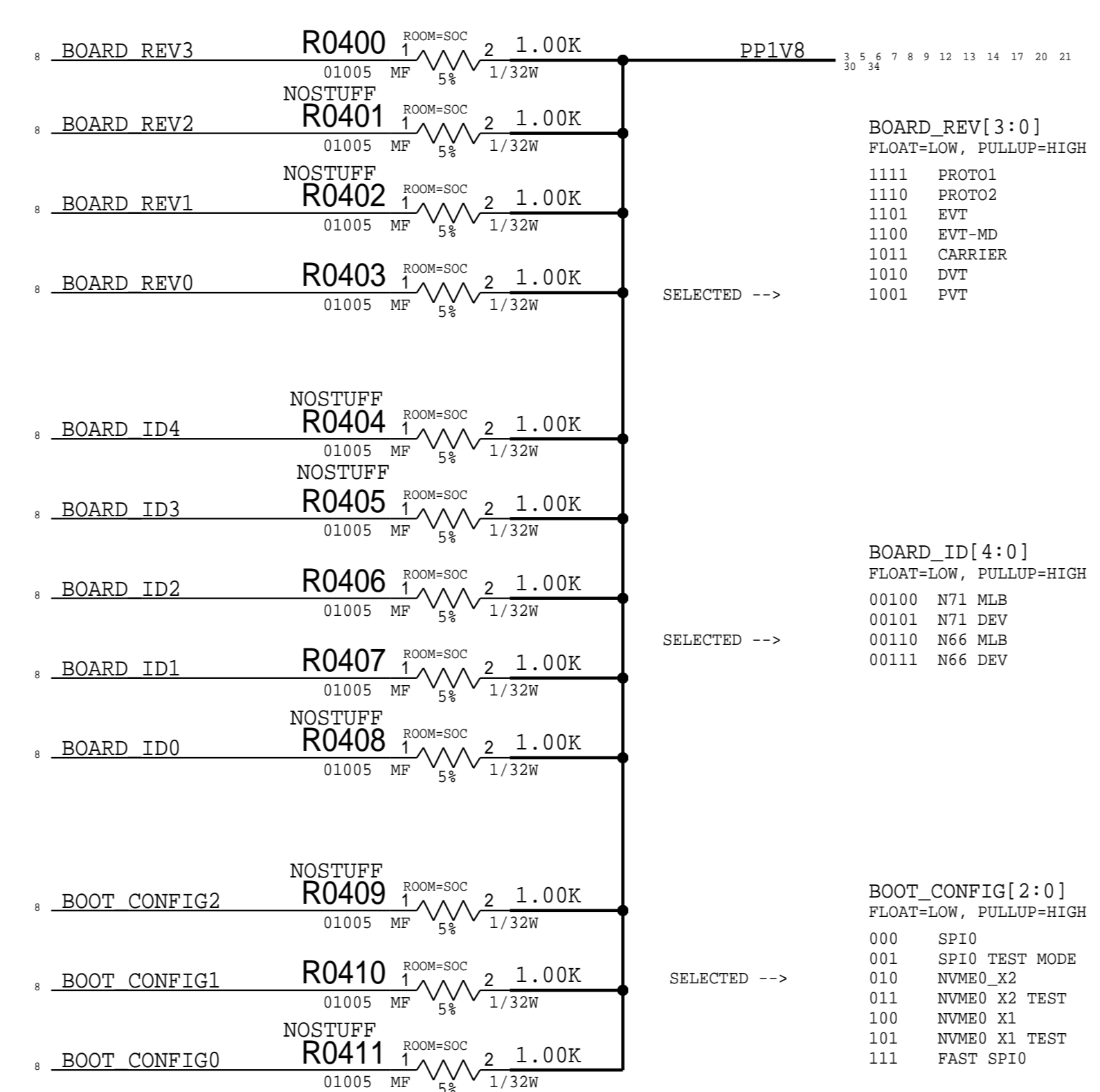
UAT GND Ring Opening



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
TOUCH I2C	MAMBA	1100000X	0x60	0xc0
	DOPPLER	1011000X	0x58	0xb0
	SEP I2C	SEP EEPROM	1010001X	0x51

BOOTSTRAPPING: BOARD REV BOARD ID BOOT CONFIG



PAGE TITLE: SYSTEM:N66 SPECIFIC

Apple Inc.

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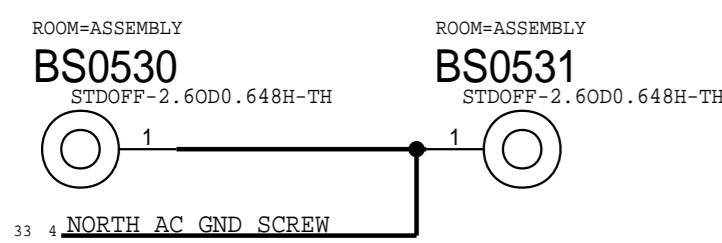
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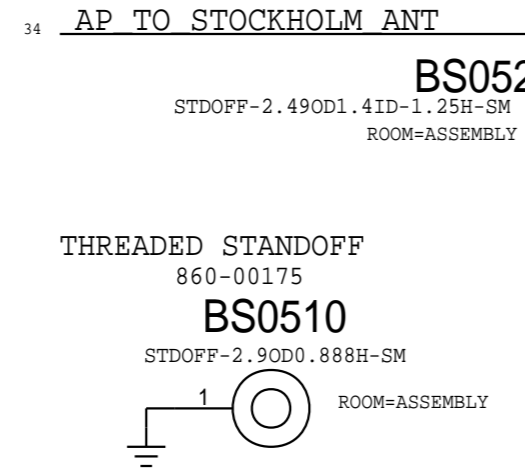
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TUBE STANDOFF
860-00177

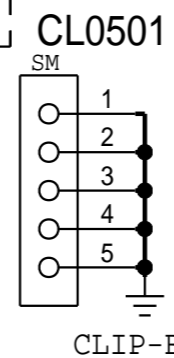
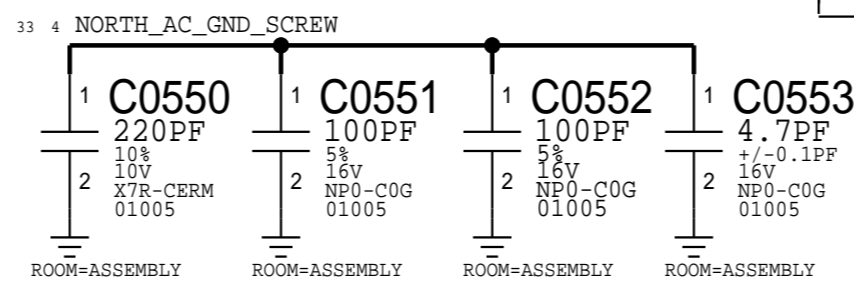


TUBE STANDOFF: STOCKHOLM FEED
860-5189



TUBE STANDOFF
860-00176
BS0513
STDOFF-2.60D0.808H
ROOM-ASSEMBLY

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



COAX CLIP BRACE
806-02354

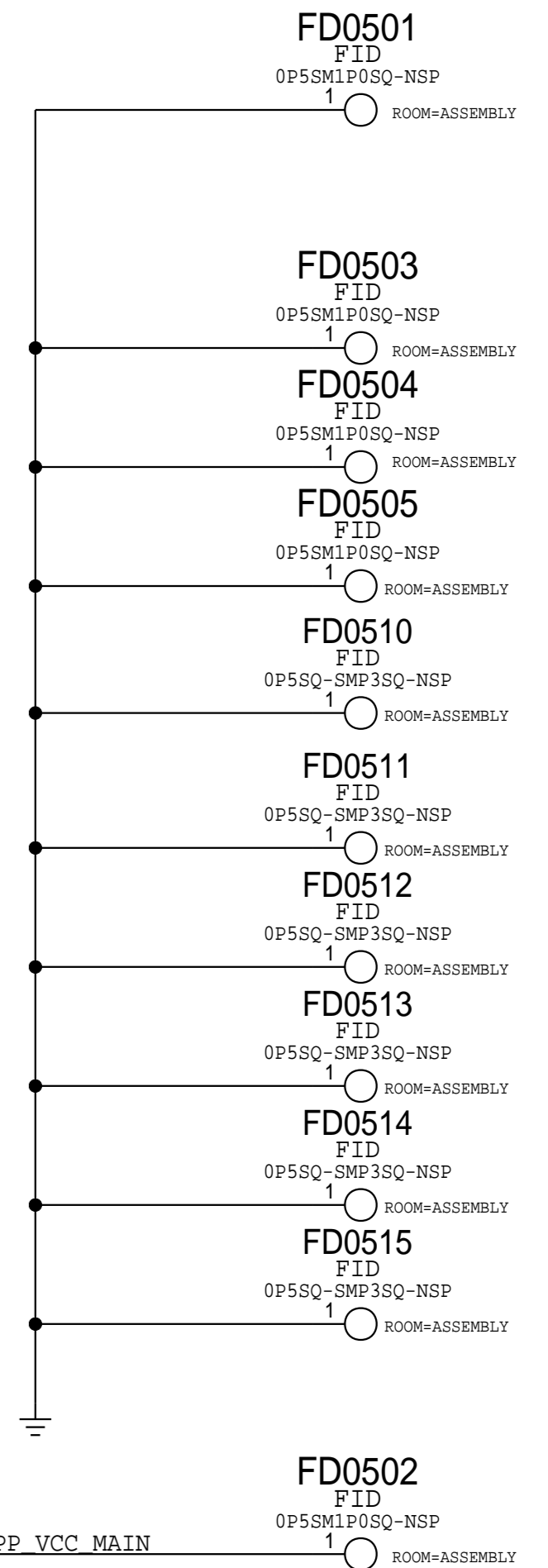
CLIP-BRACE-COAX-N66

TUDO: TUNE AC CAPS FOR ANTENNA RF GND

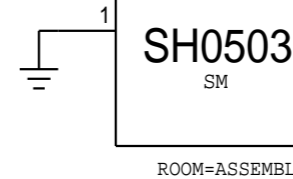
TOP SIDE

BOTTOM SIDE

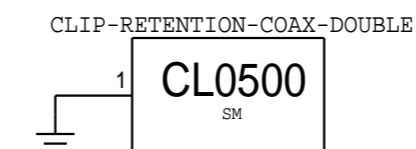
FIDUCIALS



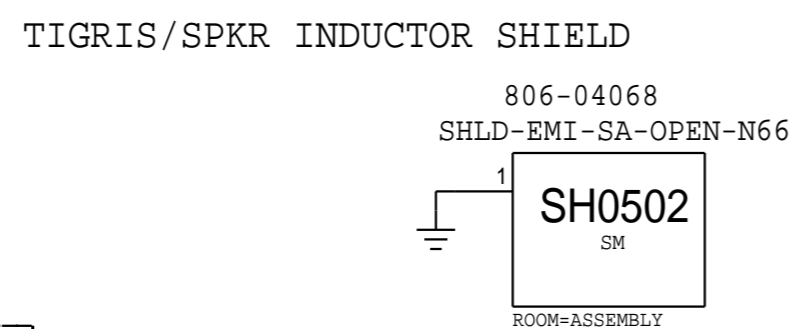
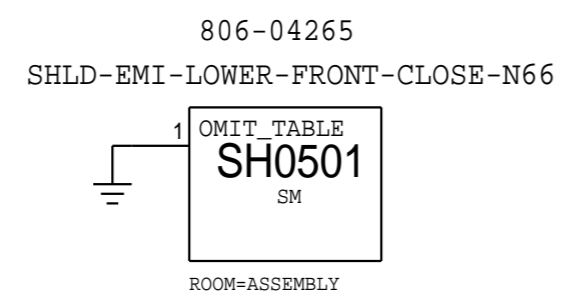
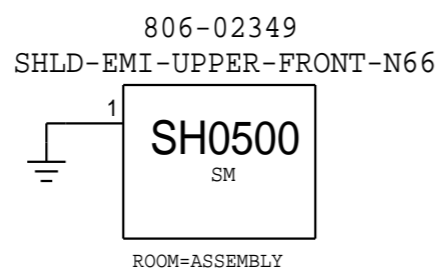
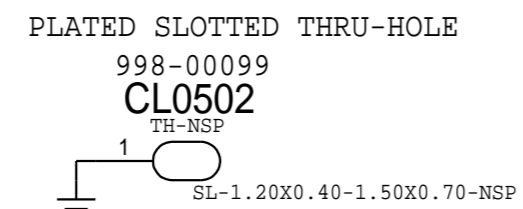
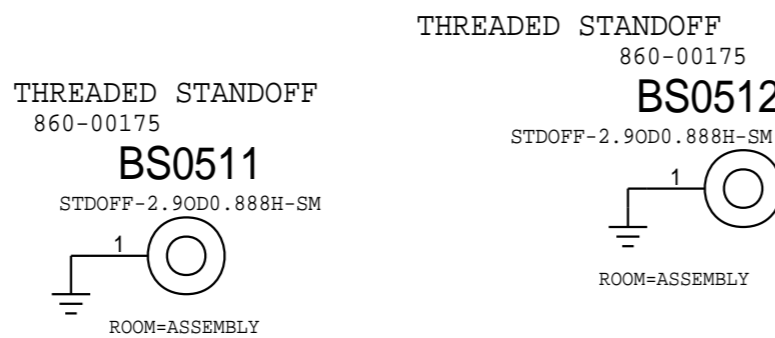
806-02352
SHLD-EMI-UPPER-BACK-N66



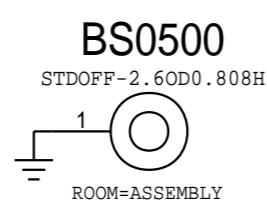
DOUBLE COAX CLIP
806-01802



806-02353
SHLD-EMI-LOWER-BACK-N66



SOUTH TUBE STANDOFF
860-00176



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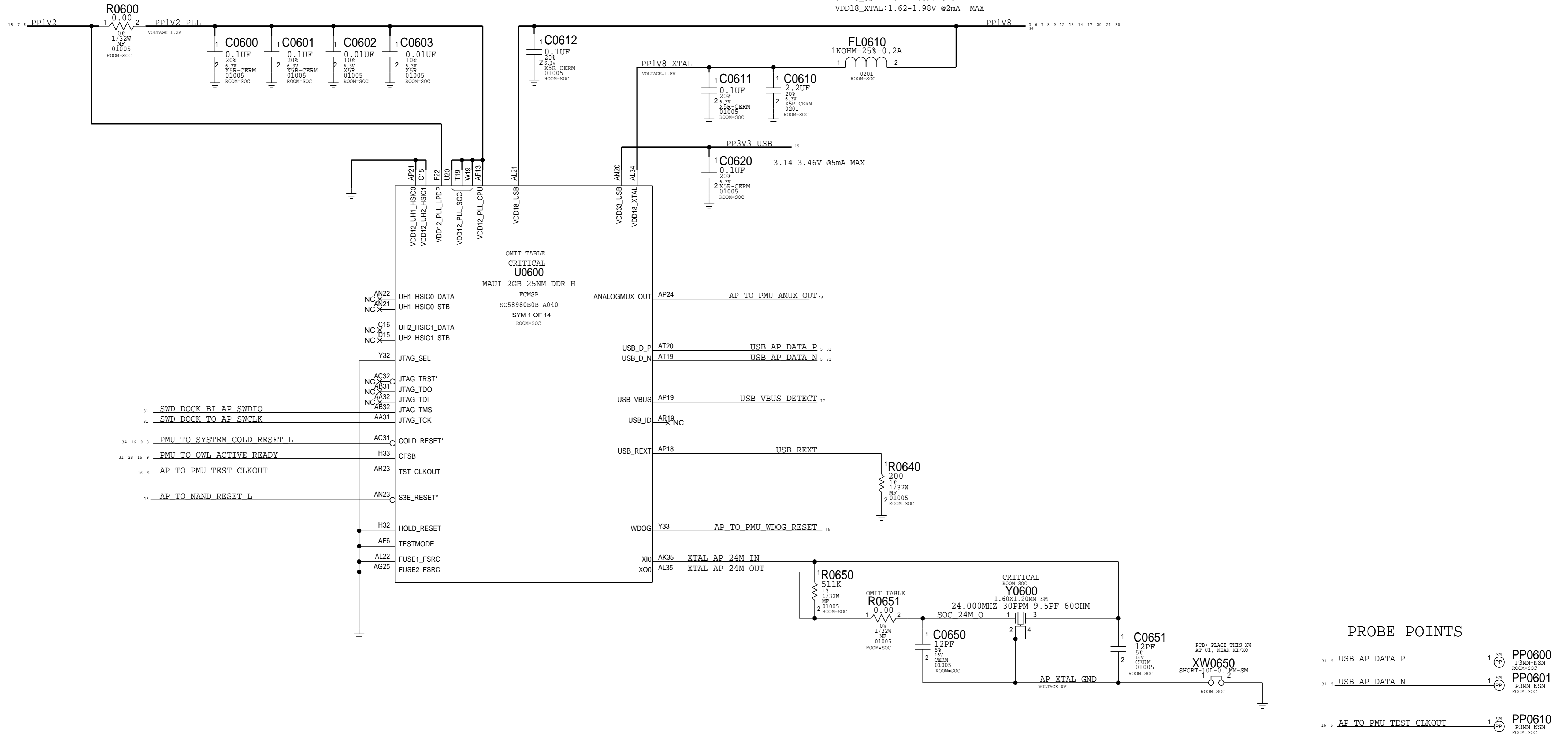
2

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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



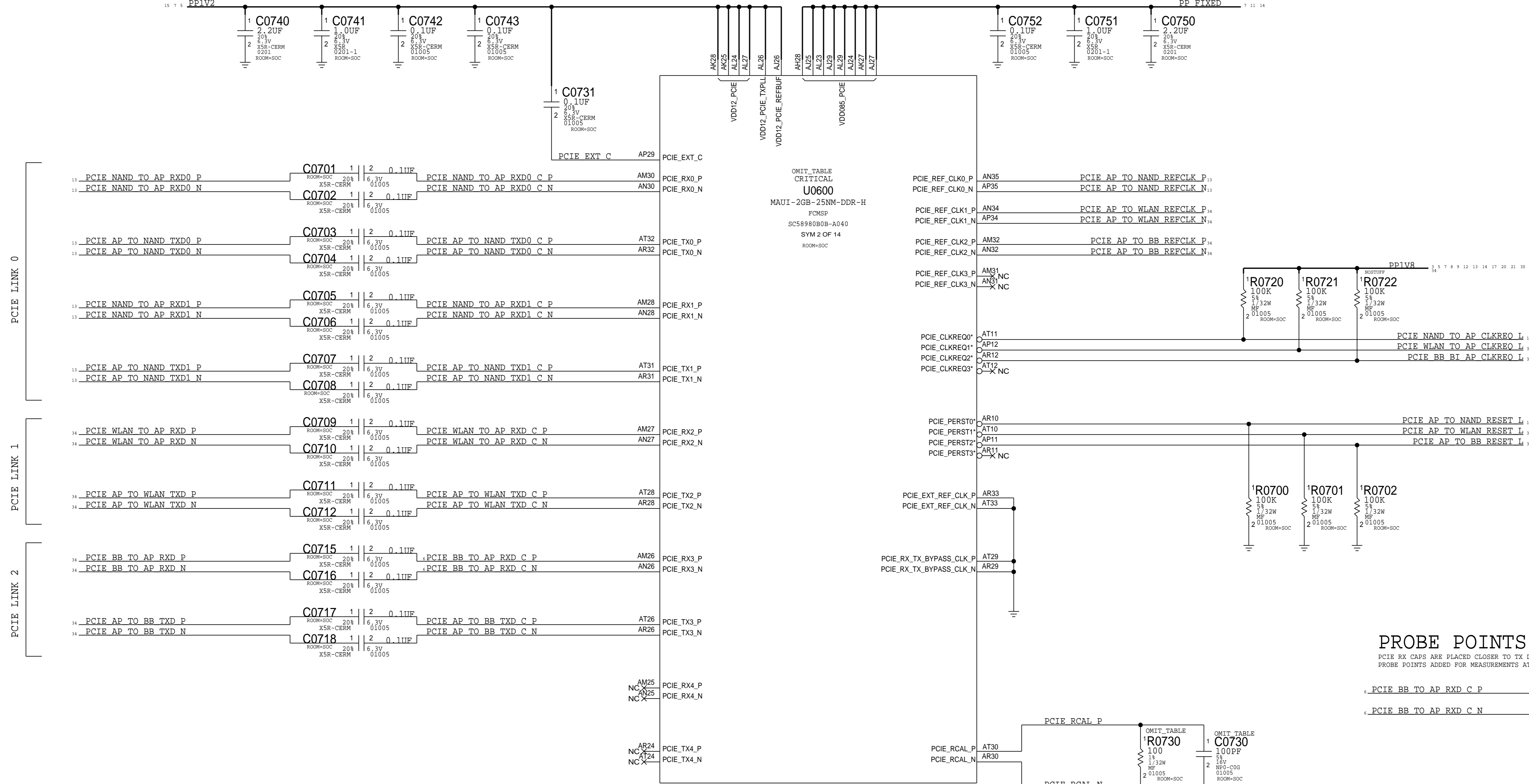
<http://www.mfcbox.com>

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SOC : JTAG, USB, XTAL			
	DRAWING NUMBER	051-0094	SIZE
	REVISION	A.0.0	
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PAGE	6 OF 49		SHEET
	5 OF 60		

MAUI - PCIE INTERFACES

VDD12_PCIE_REFBUF: 1.08-1.26V @50mA MAX
 VDD12_PCIE_TXPLL: 1.08-1.32V @10mA MAX
 VDD12_PCIE: 1.14-1.26V @115mA MAX
 PPIV2

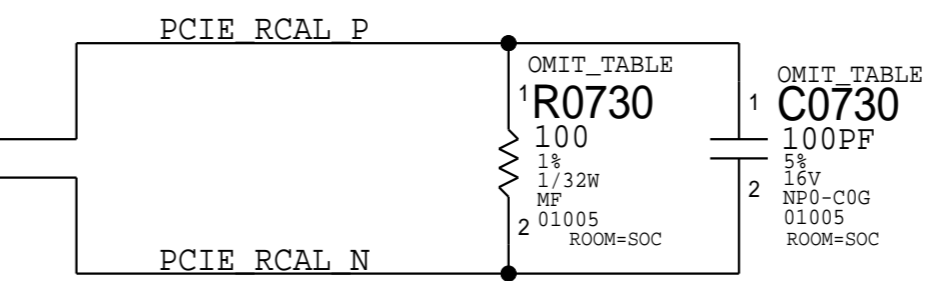
VDD085_PCIE: 0.802-TBDV @TBDmA MAX



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 (SN) PP0706 (P3MM-NSM ROOM=SOC)
- PCIE BB TO AP RXD C N 1 (SN) PP0707 (P3MM-NSM ROOM=SOC)



MAUI - CAMERA & DISPLAY INTERFACES

8 7 6 5 4 3 2 1

D

D

C

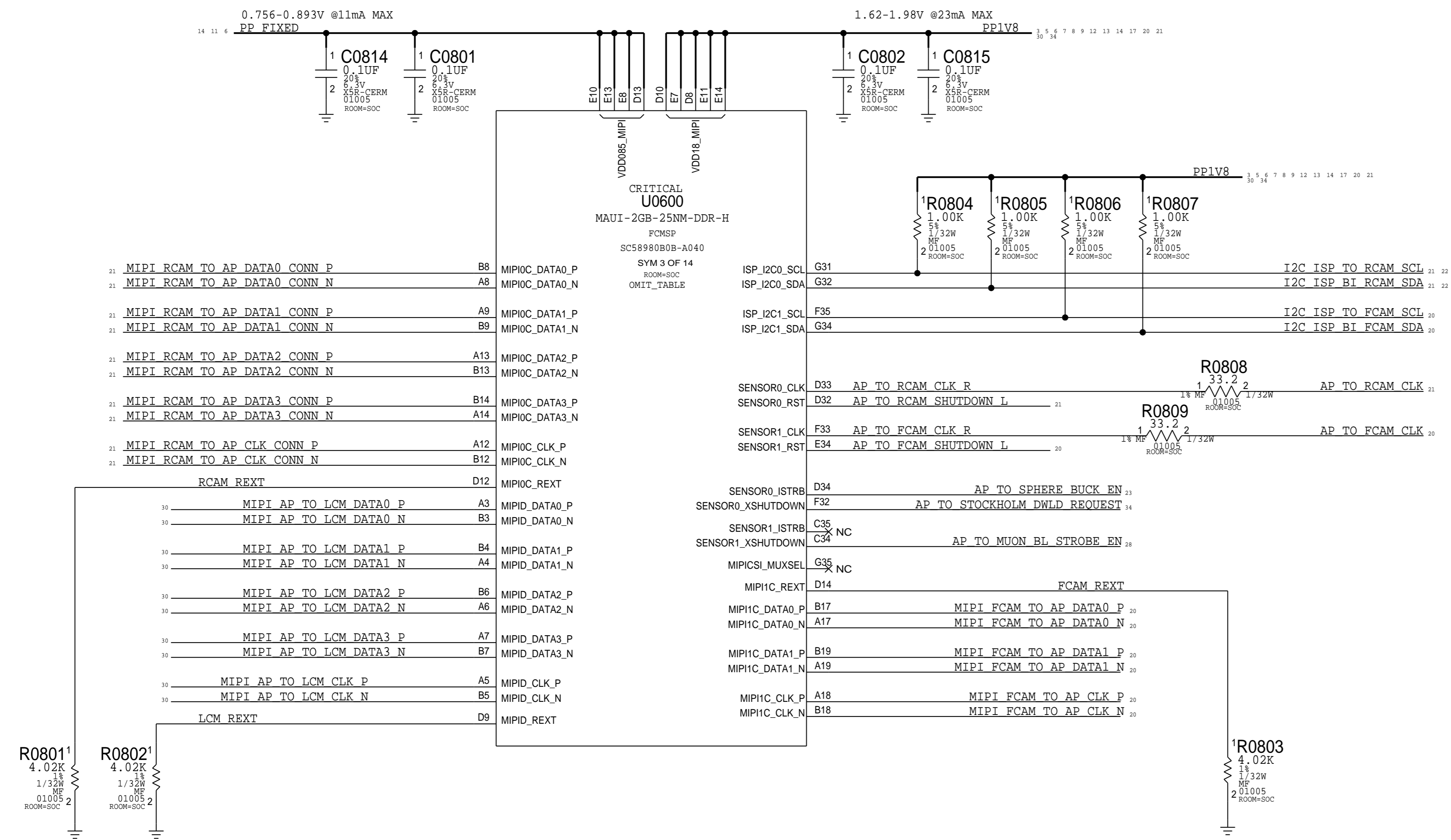
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B

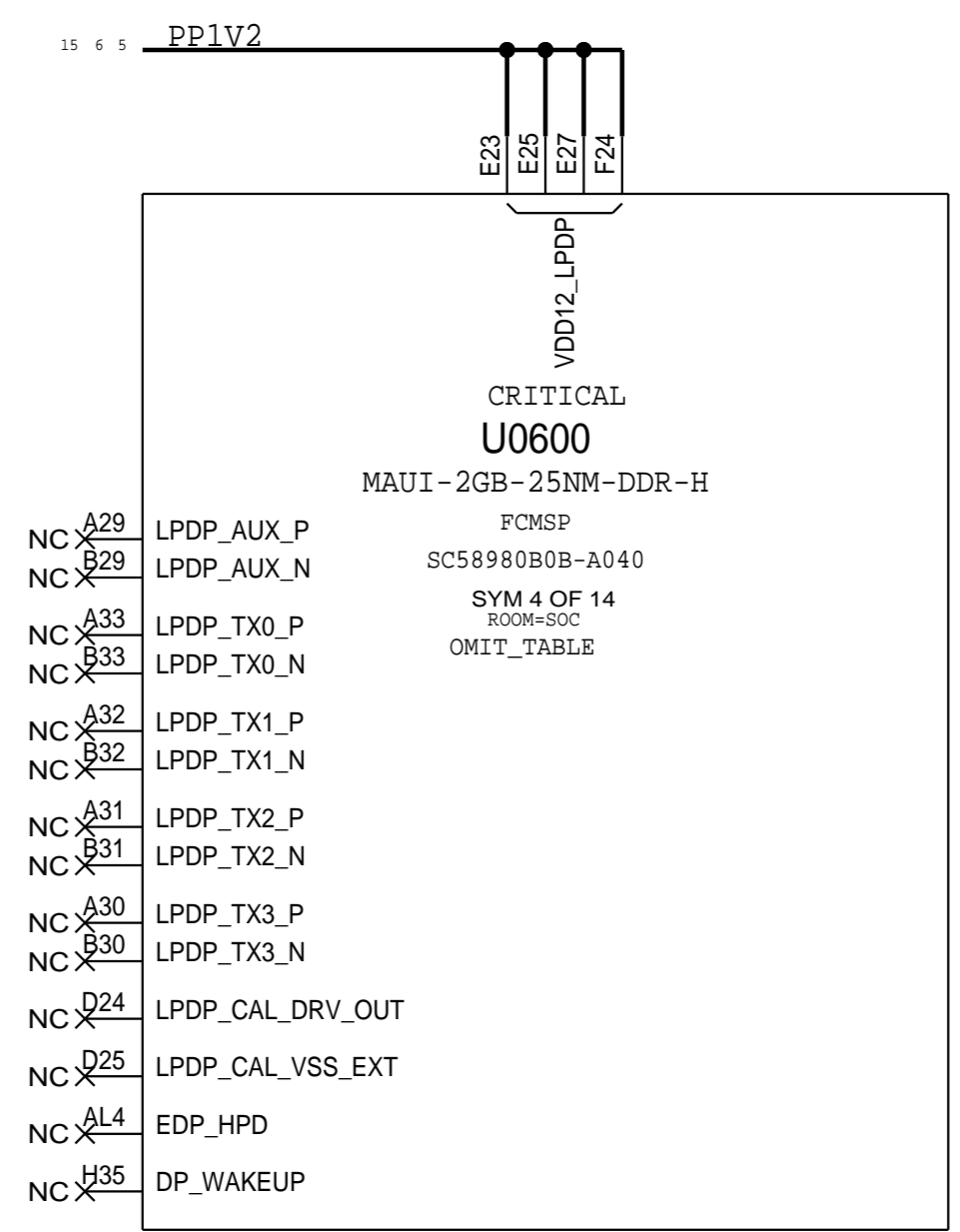
B

A

A



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

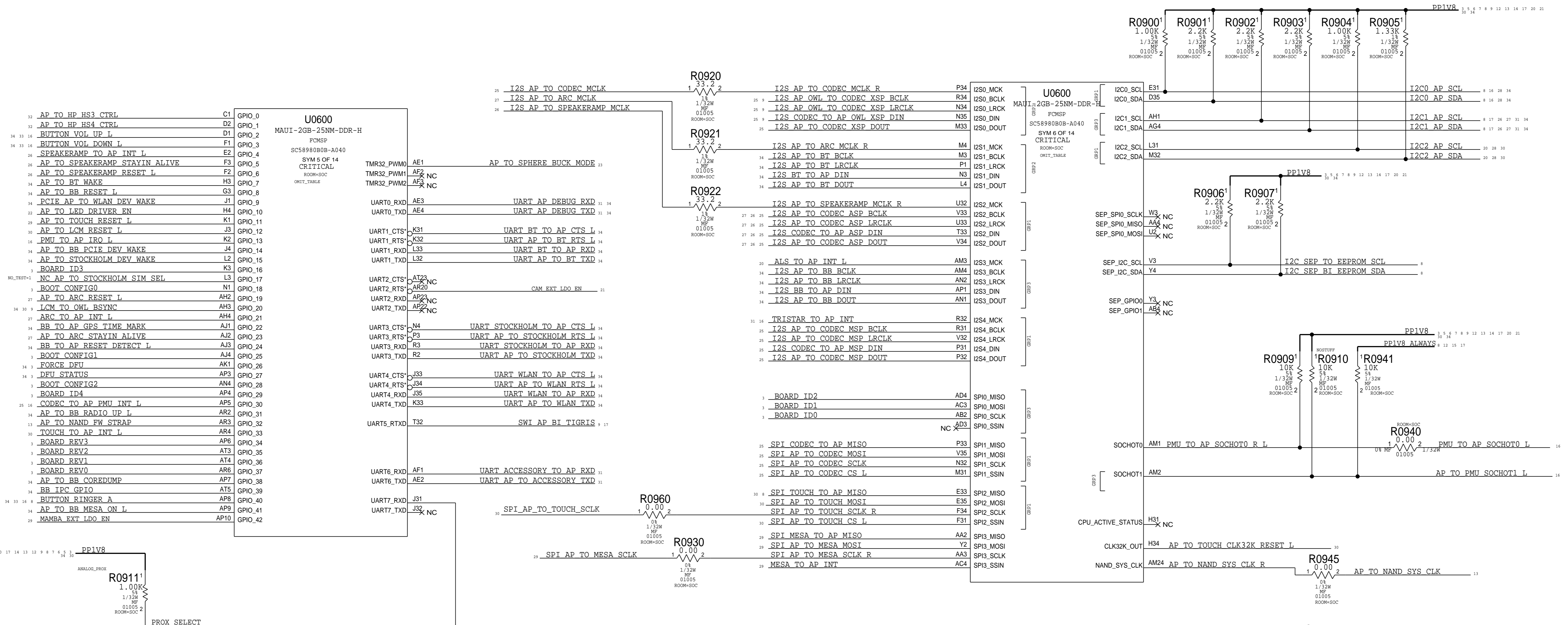


<http://www.mfcbox.com>

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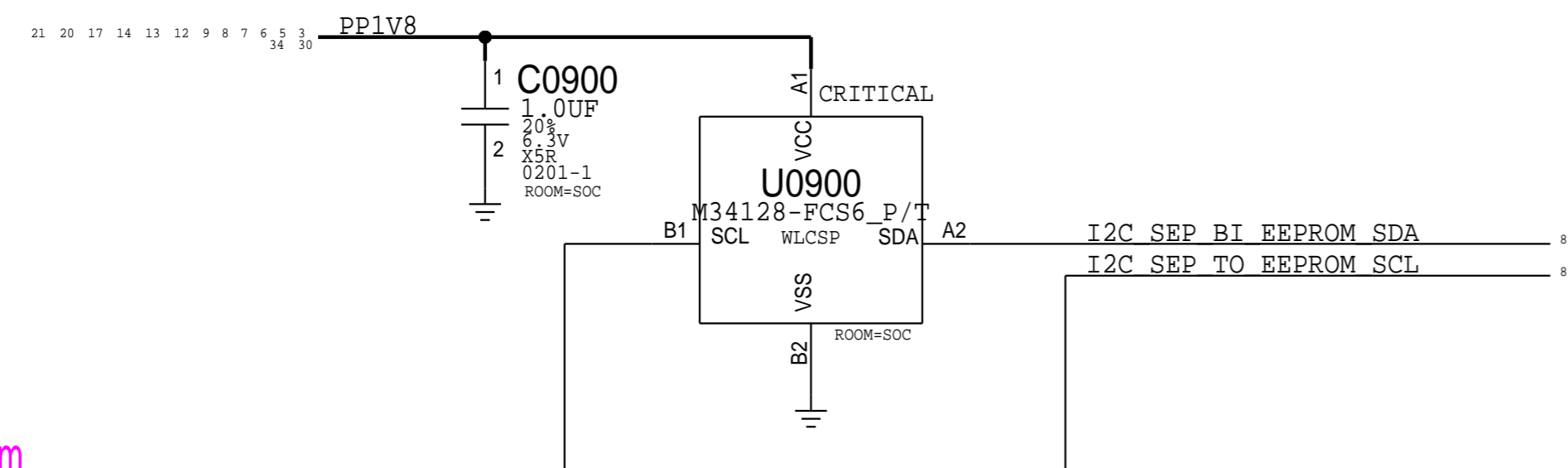
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	DRAWING NUMBER	051-00094	SIZE D
	REVISION	A.0.0	
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PAGE	8 OF 49		SHEET
	7 OF 60		

MAUI - GPIO & SERIAL INTERFACES

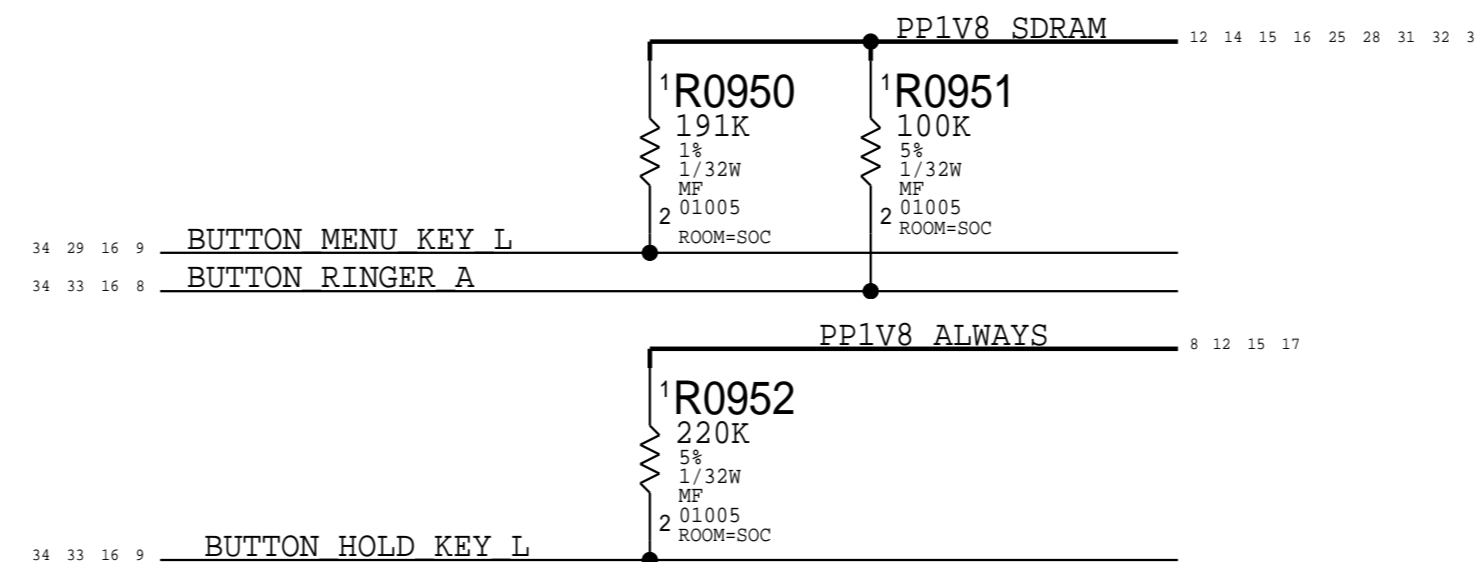


PIN J31 (UART7_RXD) SHOULD BE SET TO INTERNAL PULL-DOWN.
STUFF R0911 FOR ANALOG PROX.
NOSTUFF R0911 FOR DOPPLER PROX.

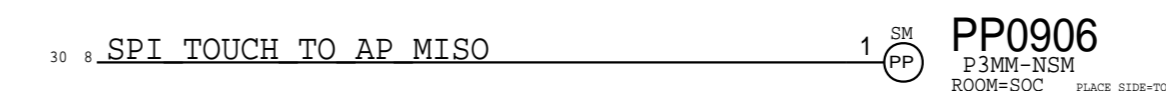
ANTI-ROLLBACK EEPROM
128kbit
APN: 335S0946



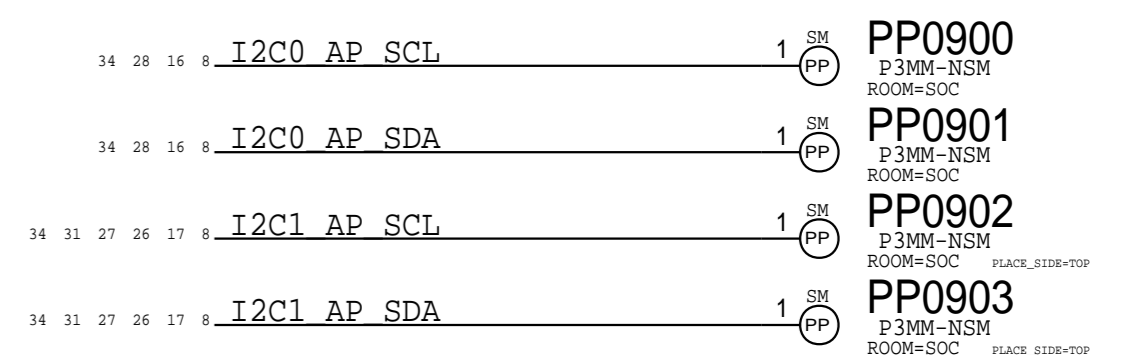
BUTTON PULL-UP RESISTORS



SPI PROBE POINTS



I2C PROBE POINTS



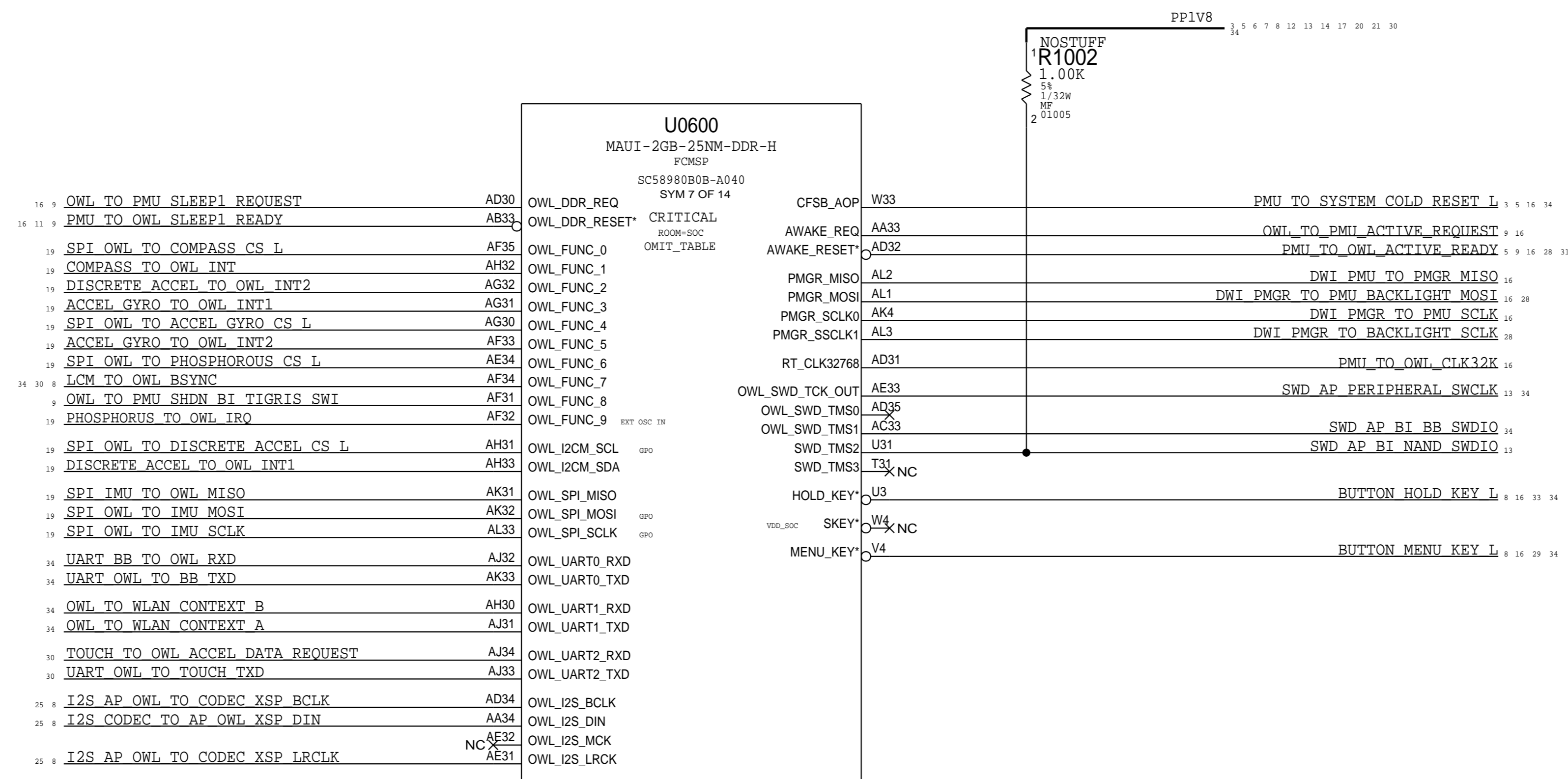
<http://www.mfcbox.com>

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SOC:SERIAL & GPIO			
Apple Inc.		DRAWING NUMBER	SIZE
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		REVISION	
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		PAGE	9 OF 49
		SHEET	8 OF 60

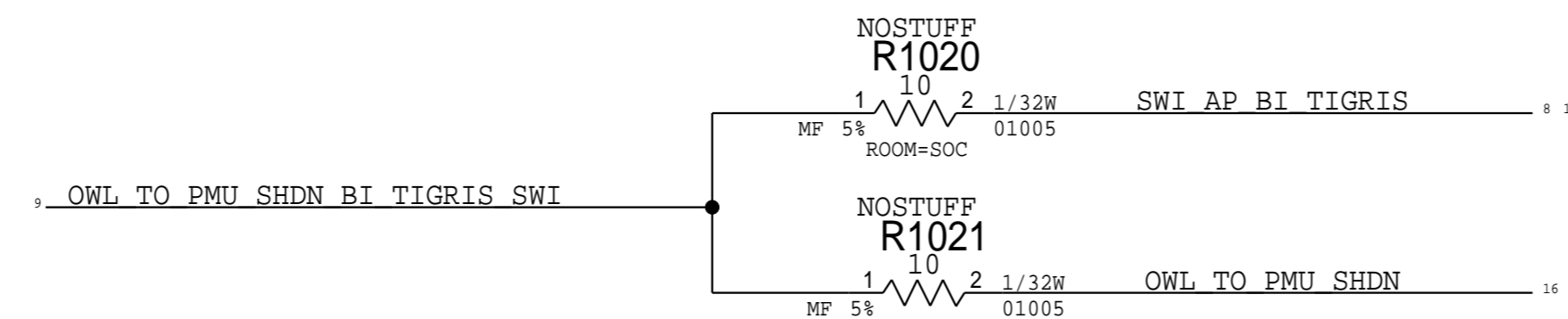
MAUI - OWL

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

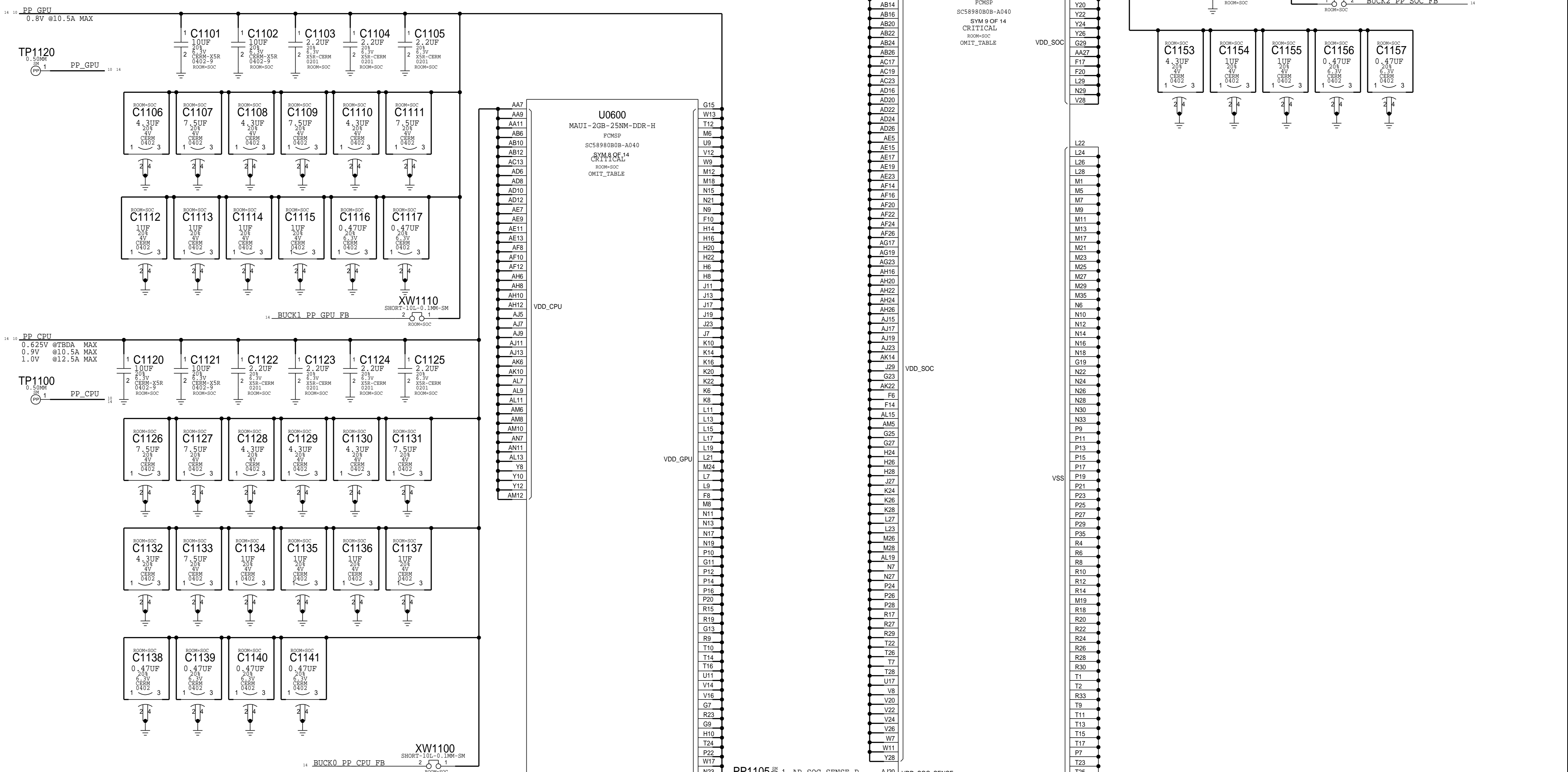


OWL SYSTEM SHUTDOWN OPTION



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PAGE		10 OF 49	
SHEET		9 OF 60	

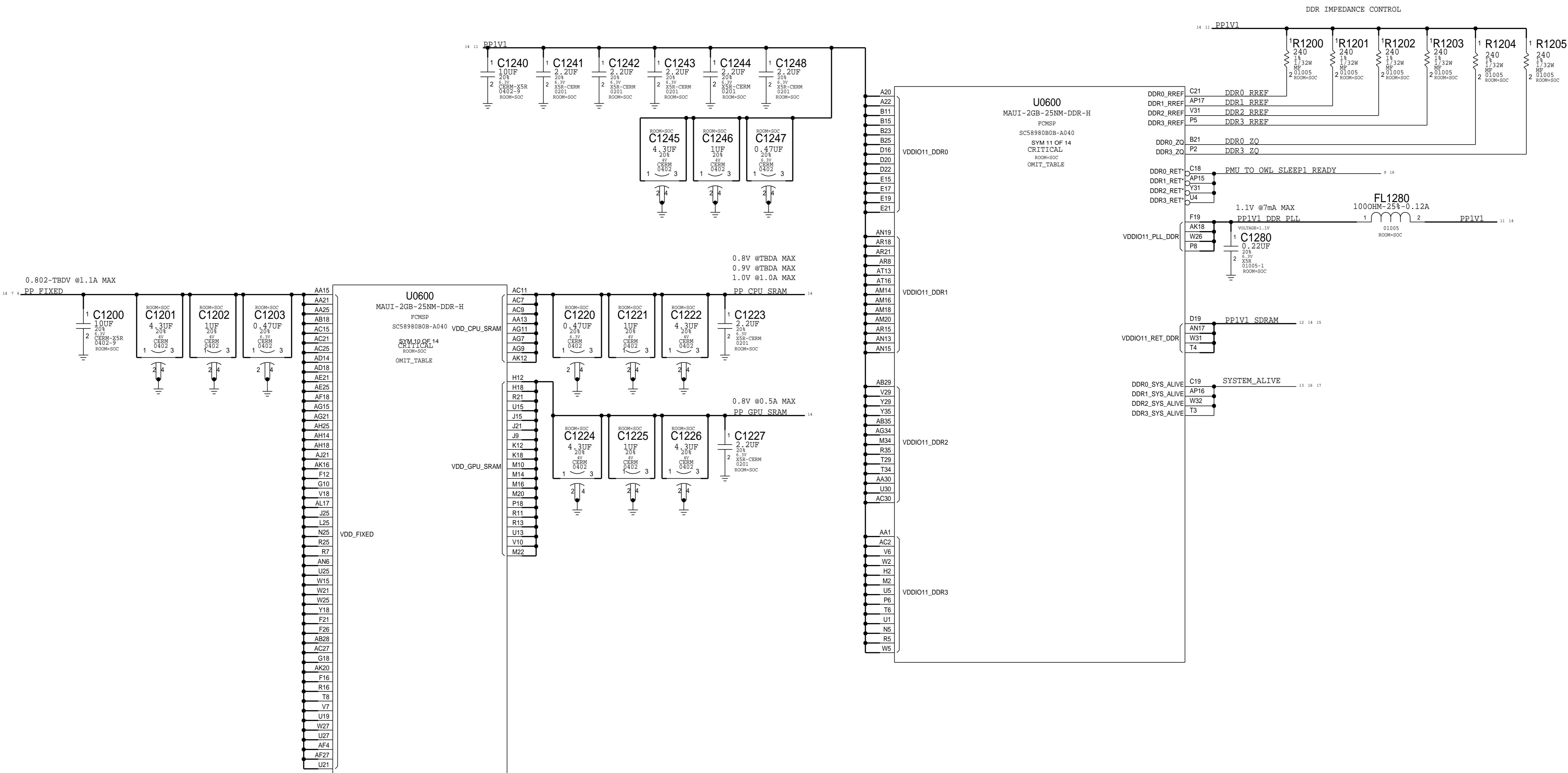
MAUI - CPU, GPU & SOC RAILS



<p>PP1100 1 AP CPU SENSE P Y6 VDD_CPU_SENSE</p> <p>PP1101 1 AP CPU SENSE N Y7 VSS_CPU_SENSE</p> <p>PP1105 1 AP SOC SENSE P G20 VDD_SOC_SENSE</p> <p>PP1104 1 AP SOC SENSE N AK21 VSS_SOC_SENSE</p> <p>PP1102 1 AP GPU SENSE P H19 VDD_GPU_SENSE</p> <p>PP1103 1 AP GPU SENSE N H18 VSS_GPU_SENSE</p>	<p>NOTE: AP_GPU_SENSE_P probe location @ R2205.2</p>	<p>U0600 MAUI-2GB-25NM-DDR-H</p> <p>FCMSP</p> <p>SC58980B0B-A040</p> <p>SYM 8 OF 14</p> <p>CRITICAL</p> <p>ROOM=SOC</p> <p>OMIT_TABLE</p>	<p>U0600 MAUI-2GB-25NM-DDR-H</p> <p>FCMSP</p> <p>SC58980B0B-A040</p> <p>SYM 9 OF 14</p> <p>CRITICAL</p> <p>ROOM=SOC</p> <p>OMIT_TABLE</p>	<p>TP1100 0.50MM 1 PP_CPU</p> <p>TP1120 0.50MM 1 PP_GPU</p>	<p>PP_SOC 0.825V @4.7A MAX</p> <p>0.725V @TBDA MAX</p> <p>XW1120 SHORT-10L-0.1MM-SM</p> <p>BUCK2 PP_SOC_FB</p>
--	--	---	---	---	--

<http://www.mfcbox.com>

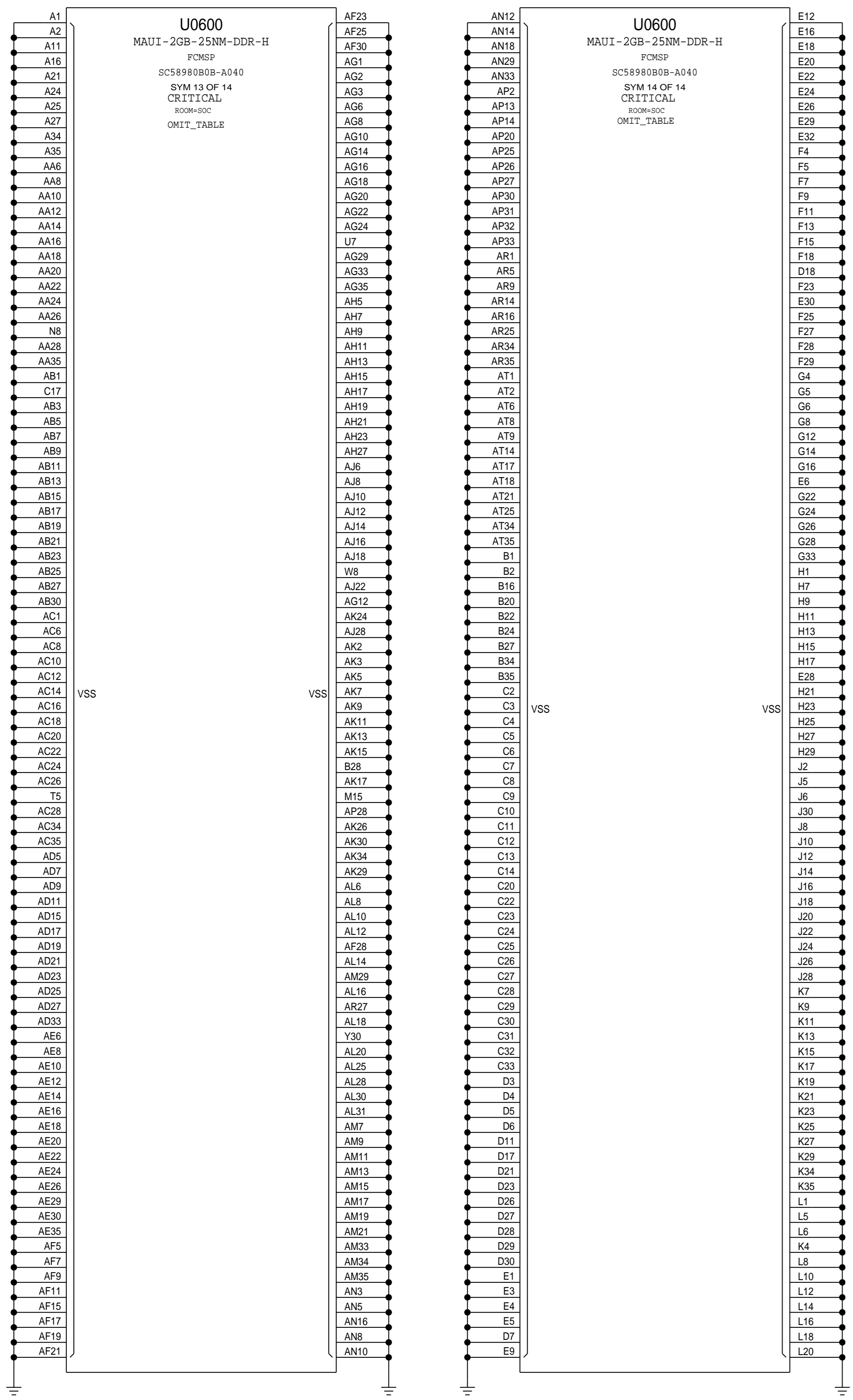
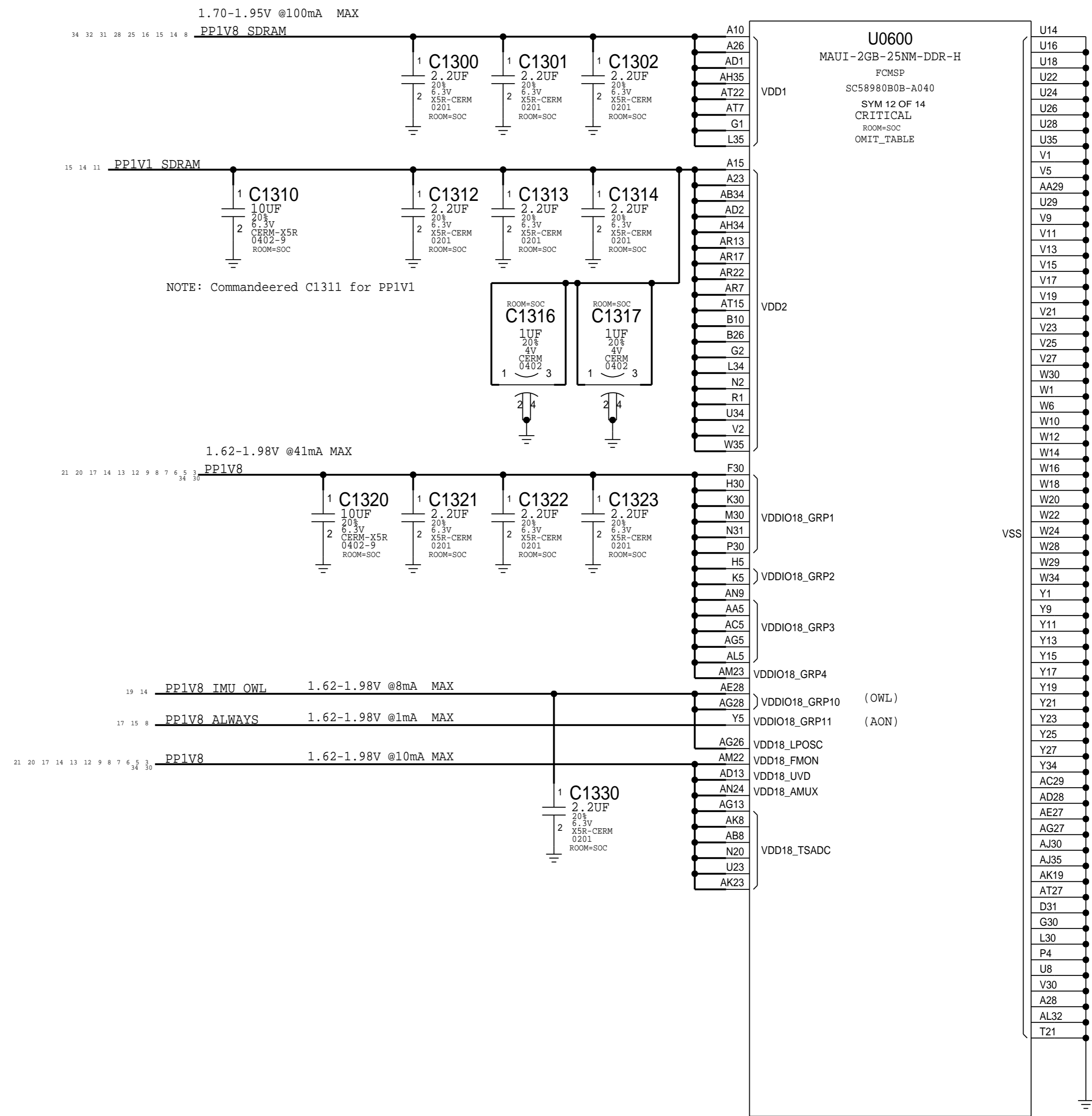
MAUI - POWER SUPPLIES



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		PAGE	12 OF 49
		SHEET	11 OF 60

MAUI - POWER SUPPLIES

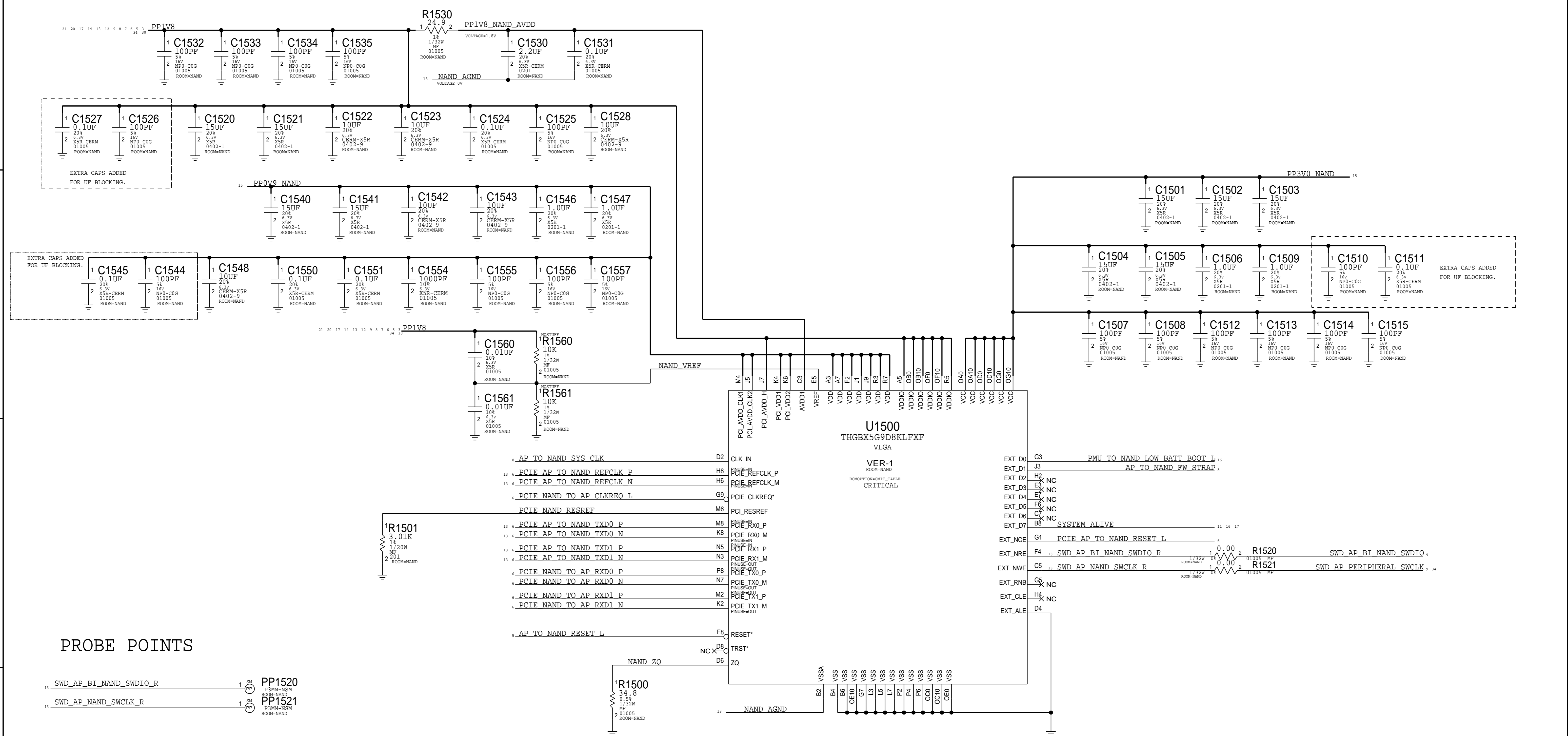


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REVISION: A.0.0		BRANCH:
PAGE: 13 OF 49		SHEET: 12 OF 60

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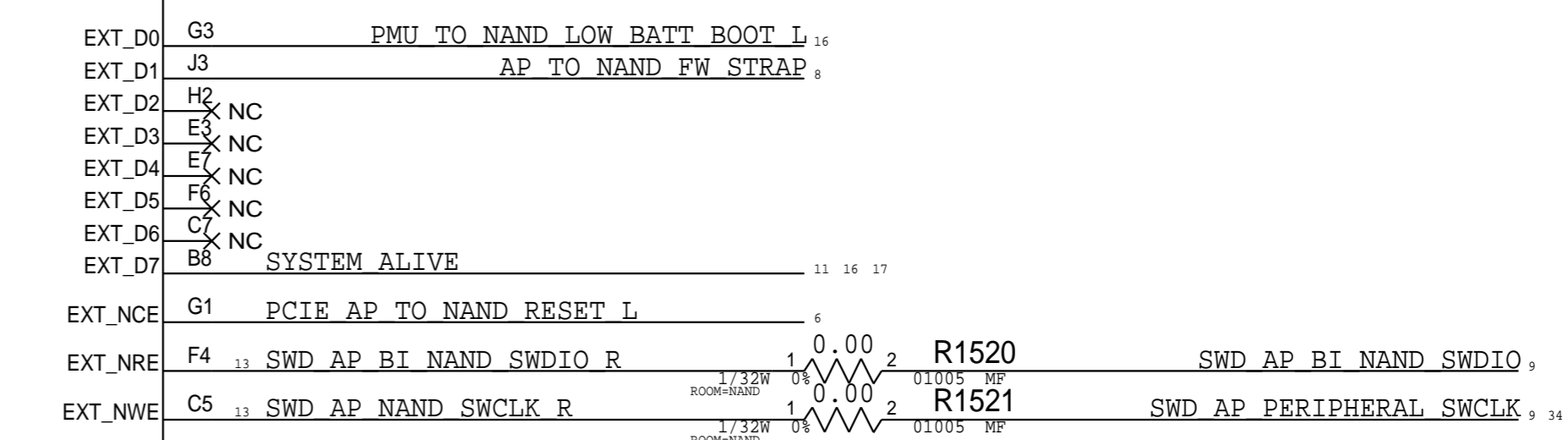
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S3E NAND



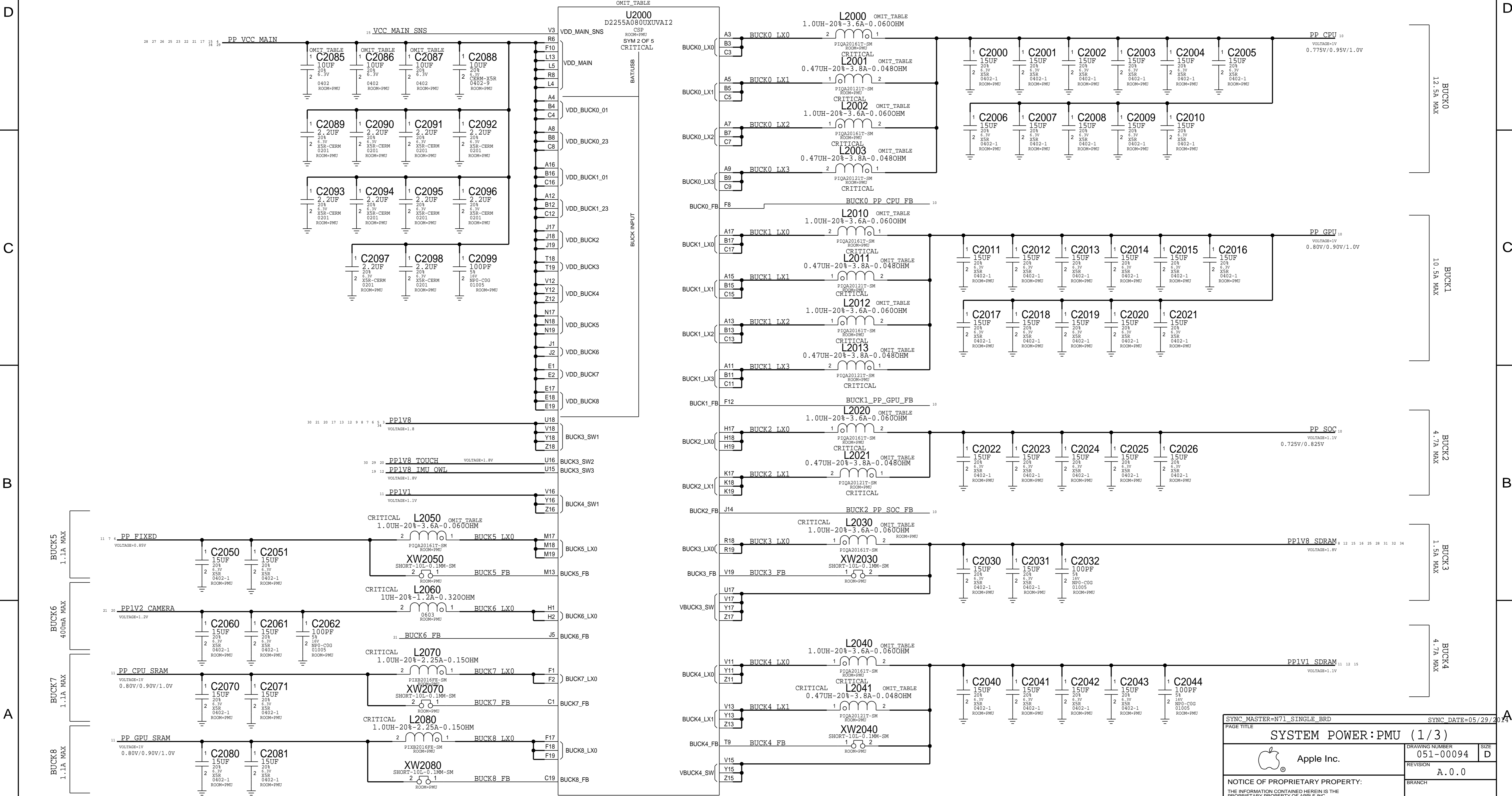
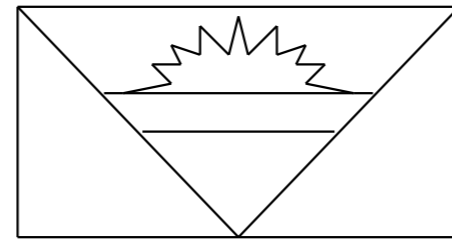
PROBE POINTS

- SWD_AP_BI_NAND_SWDIO_R (PP1520)
- SWD_AP_NAND_SWCLK_R (PP1521)
- PCIE_AP_TO_NAND_REFCLK_P (PP1500)
- PCIE_AP_TO_NAND_REFCLK_N (PP1501)
- PCIE_AP_TO_NAND_TXD0_P (PP1502)
- PCIE_AP_TO_NAND_TXD0_N (PP1503)
- PCIE_AP_TO_NAND_TXD1_P (PP1504)
- PCIE_AP_TO_NAND_TXD1_N (PP1505)



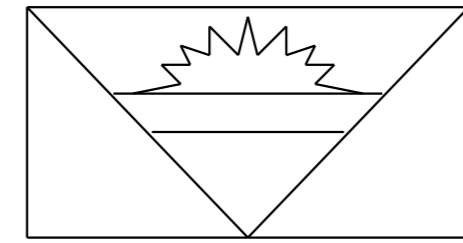
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ANTIGUA PMU - Buck Supplies



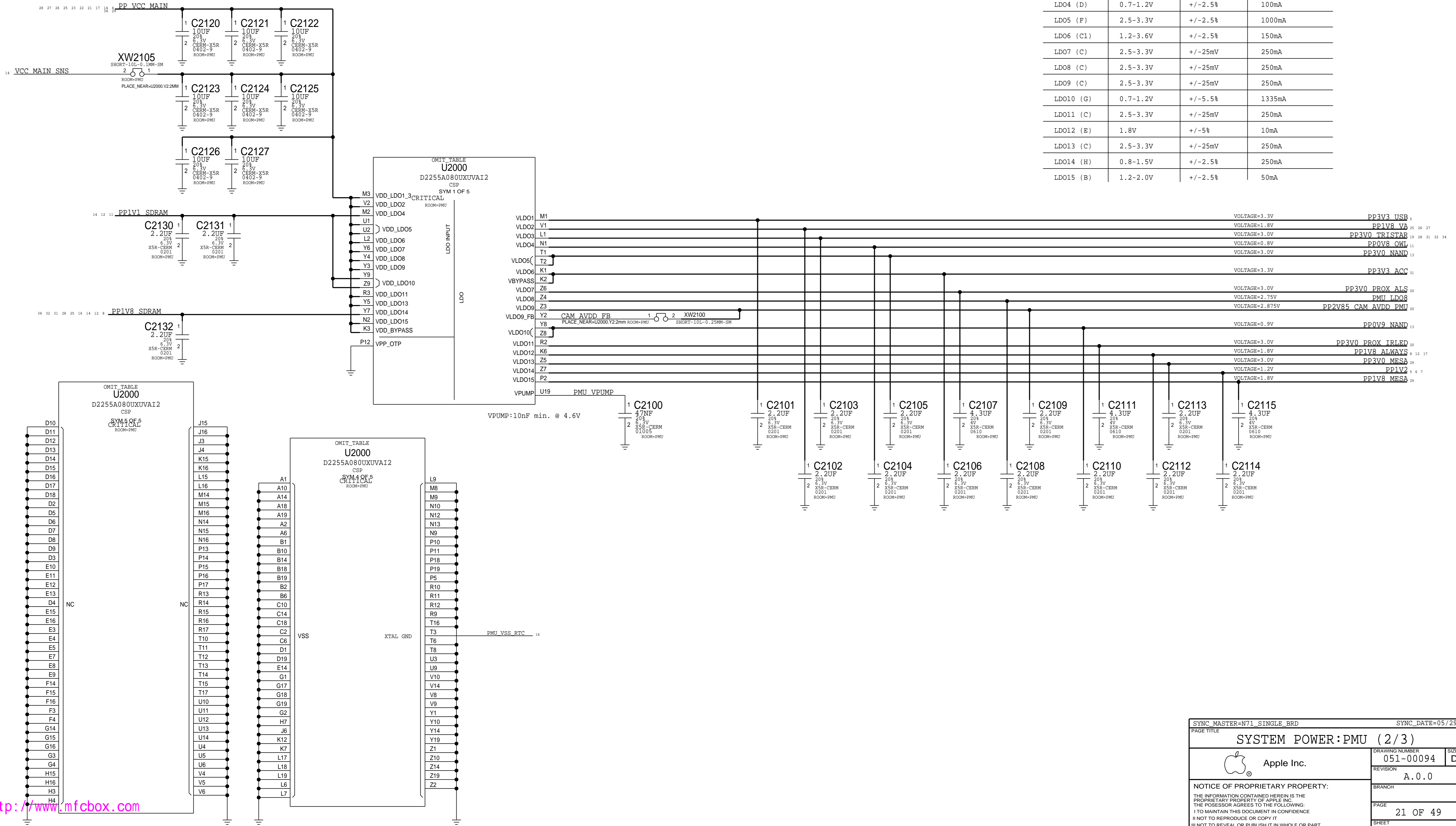
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Apple Inc.		DRAWING NUMBER	SIZE
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20 OF 49		14 OF 60	

ANTIGUA PMU - LDOs



ANTIGUA LDO SPECS

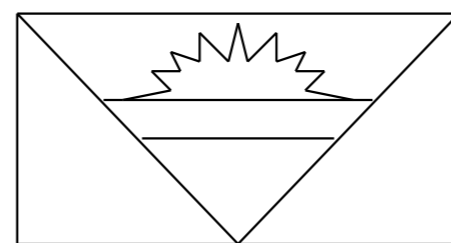
LDO#	ADJ. RANGE	ACCURACY	MAX. CURRENT
LDO1 (A)	2.5-3.3V	+/-1.4%	50mA
LDO2 (B)	1.2-2.0V	+/-2.5%	50mA
LDO3 (A)	2.5-3.3V	+/-1.4%	50mA
LDO4 (D)	0.7-1.2V	+/-2.5%	100mA
LDO5 (F)	2.5-3.3V	+/-2.5%	1000mA
LDO6 (C1)	1.2-3.6V	+/-2.5%	150mA
LDO7 (C)	2.5-3.3V	+/-25mV	250mA
LDO8 (C)	2.5-3.3V	+/-25mV	250mA
LDO9 (C)	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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 Apple Inc.
 DRAWING NUMBER: 051-00094 SIZE: D
 REVISION: A.0.0
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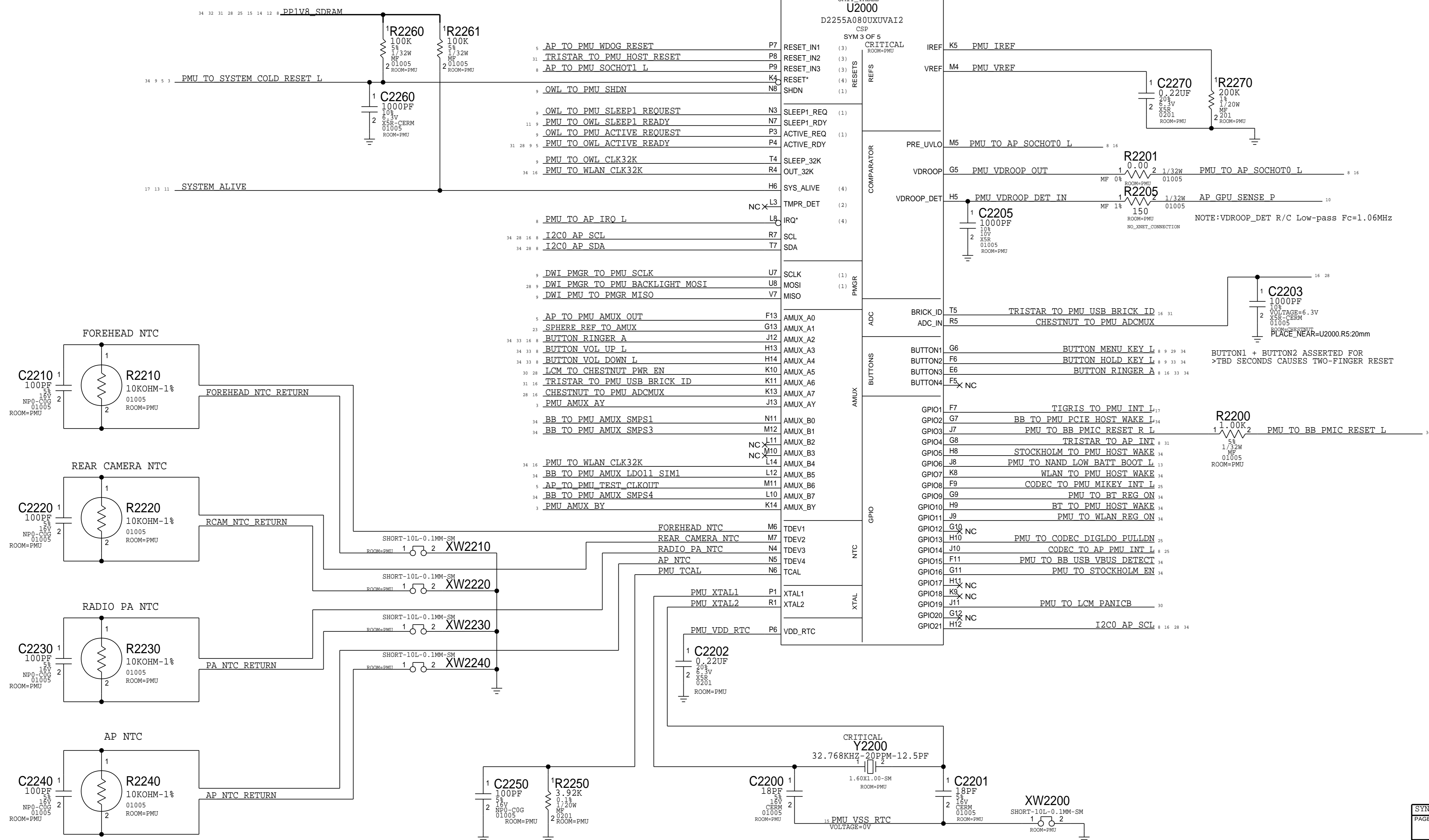
<http://www.mfcbox.com>

ANTIGUA PMU - GPIOs, NTCs



CONTROL PIN NOTES:

- NOTE (1): INPUT PULL-DOWN 100-300k
- NOTE (2): INPUT PULL-DOWN 1M
- NOTE (3): INPUT PULL-UP OR DOWN 100k-300k
- NOTE (4): OUTPUT OPEN-DRAIN, REQUIRES PULL-UP



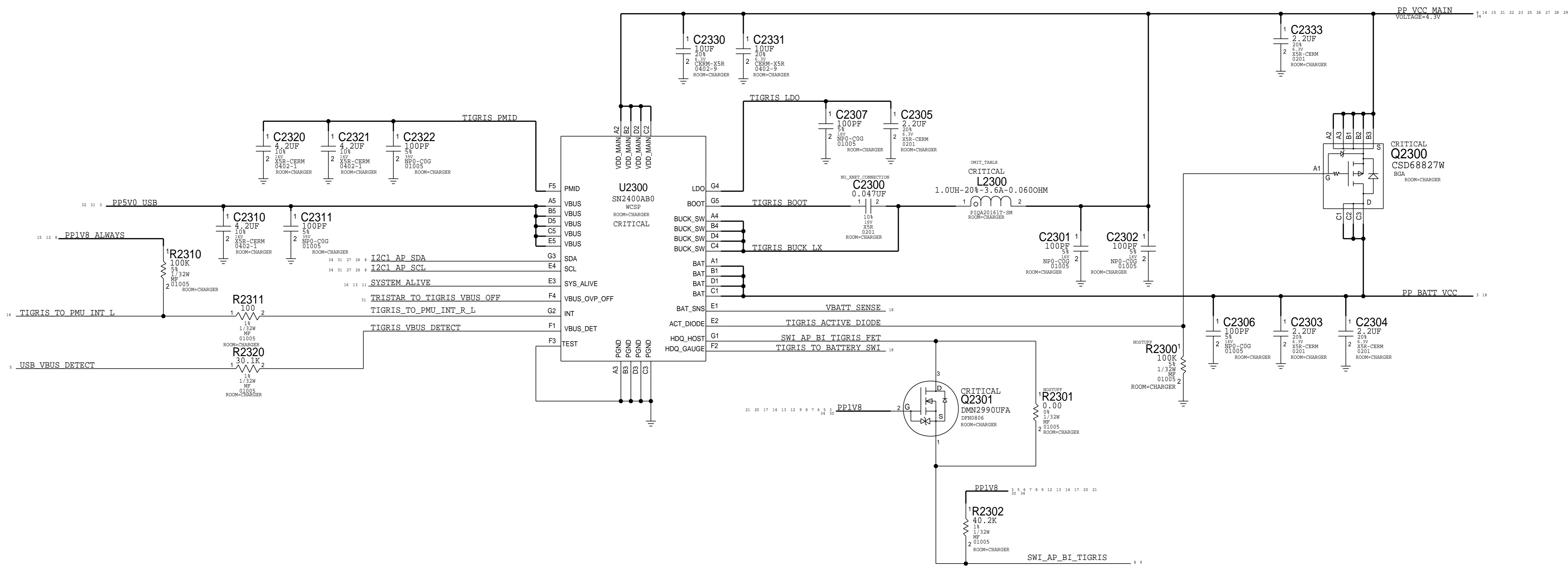
NOTE: 100PF CAPS ARE THE SAMPLING CAPS FOR PMU ADC

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SYSTEM POWER: PMU (3/3)			
Apple Inc.	DRAWING NUMBER	051-00094	SIZE
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TIGRIS CHARGER

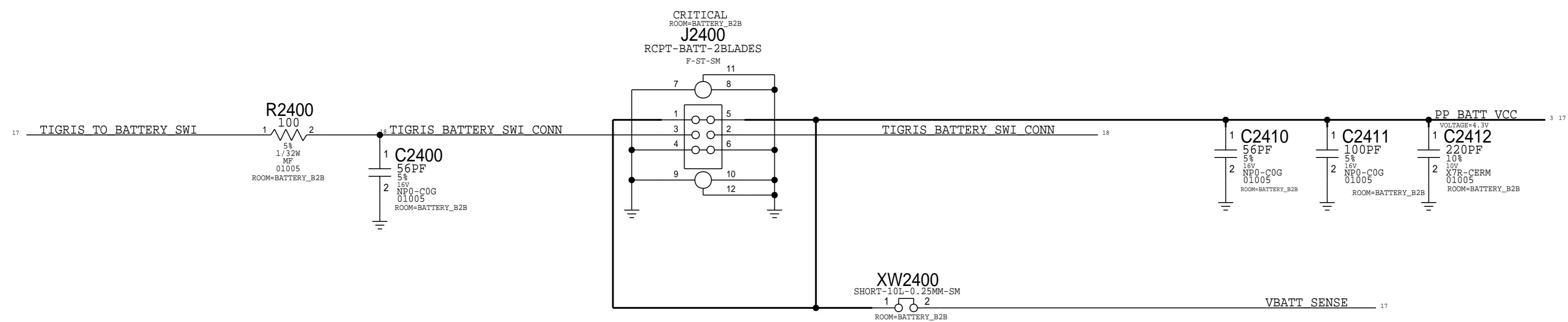
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BATTERY CONNECTOR

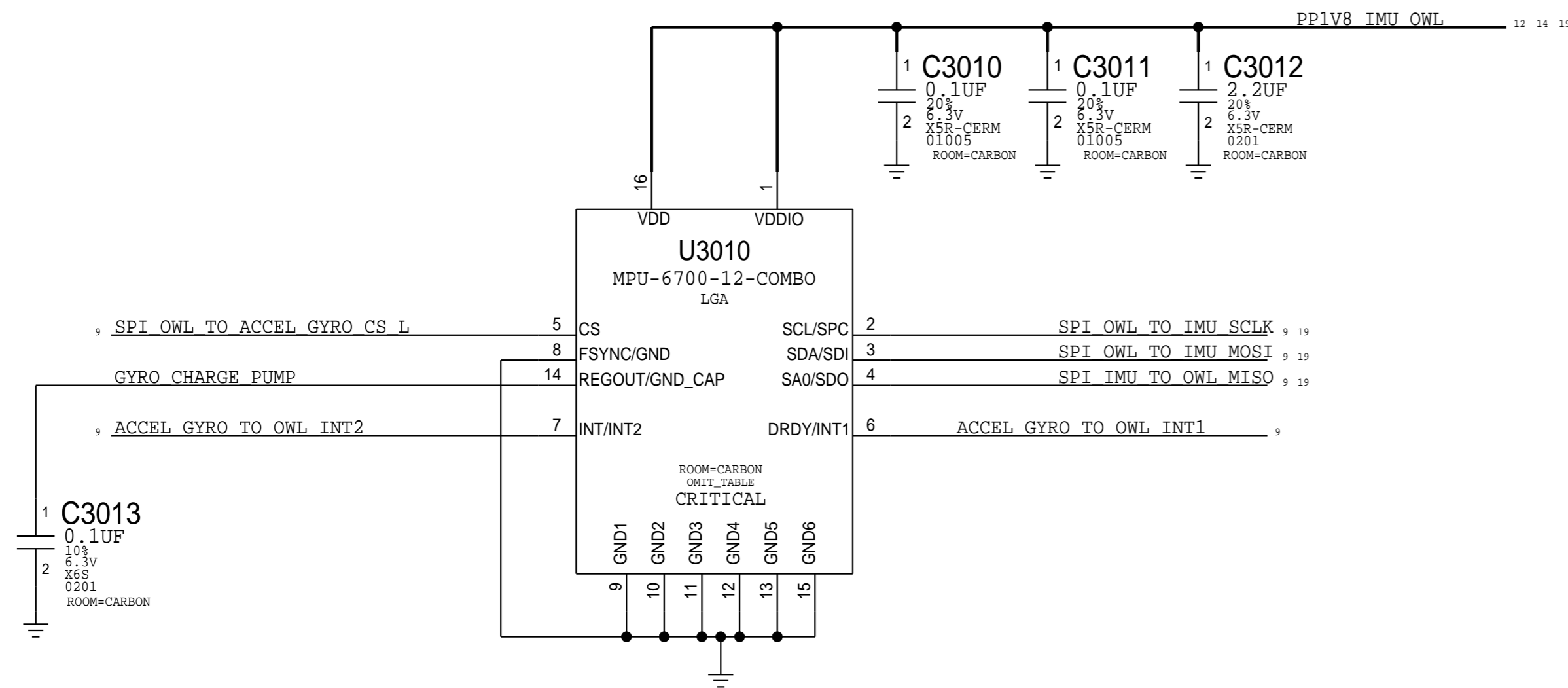
THIS ONE ON MLB ---> 516S00104 (RCPT)
516????? (PLUG)



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PAGE TITLE			
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	DRAWING NUMBER	051-00094	SIZE
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		SHEET	18 OF 60

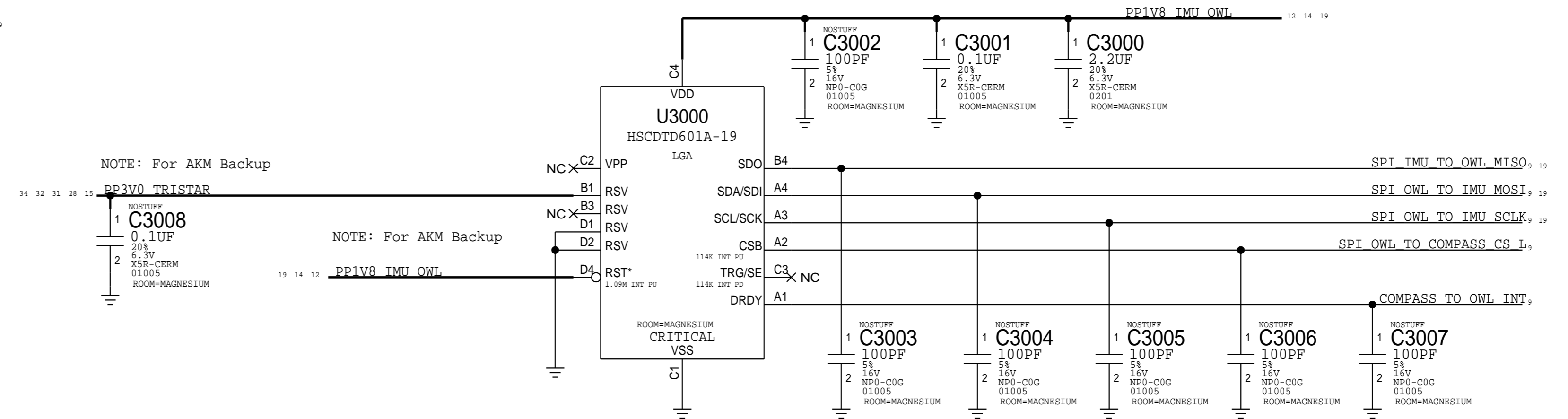
CARBON - ACCEL & GYRO

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



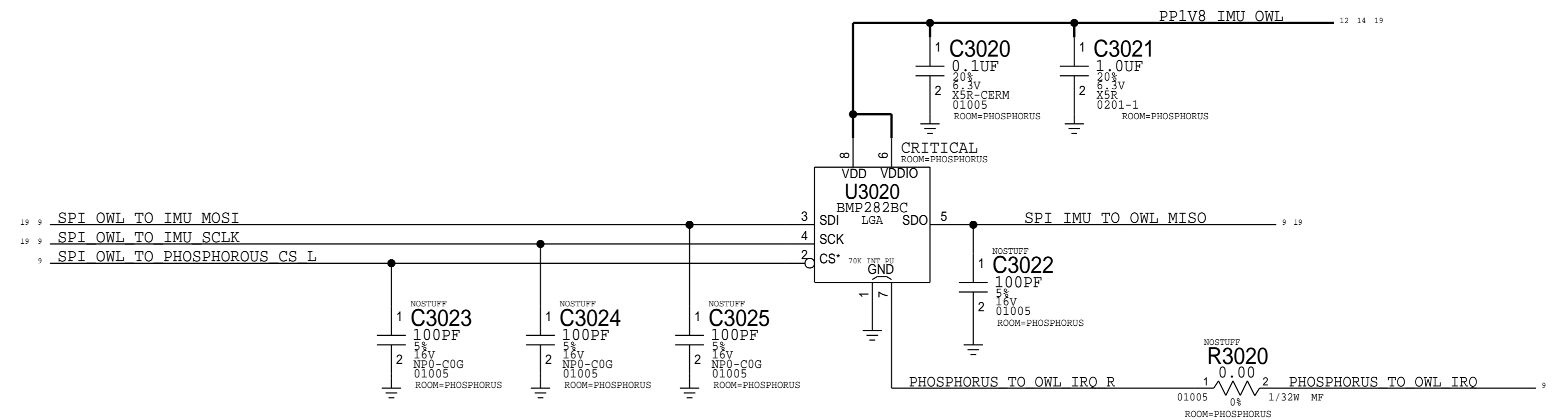
MAGNESIUM - COMPASS

APN: 338S00084



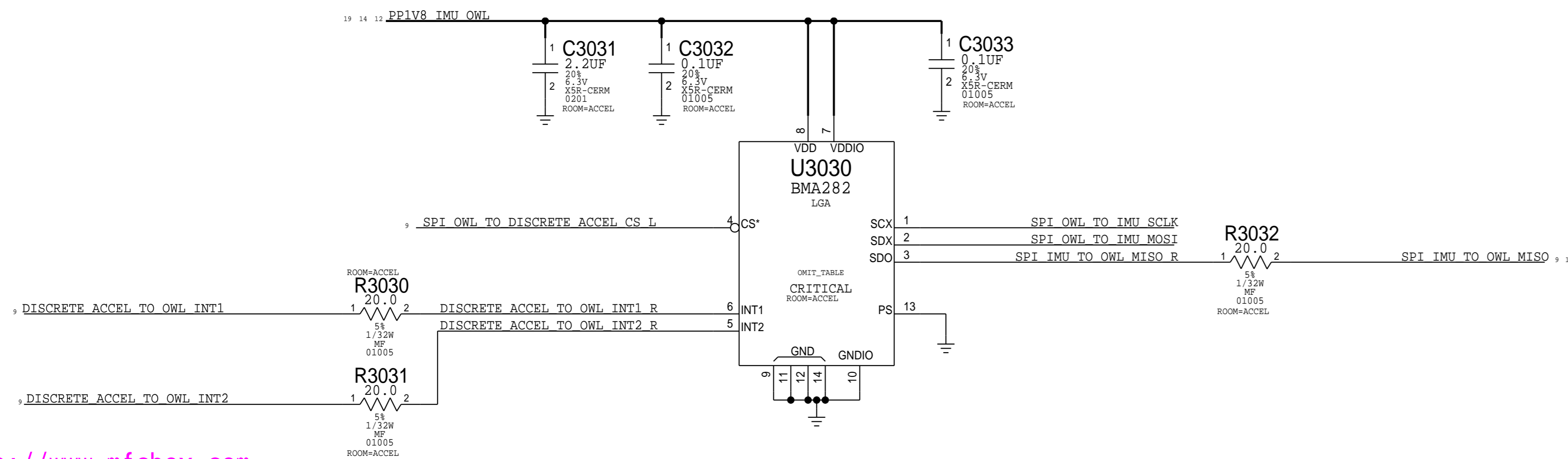
PHOSPHOROUS

BOSCH (APN: 338S00044)



DISCRETE ACCEL

BOSCH APN 338S1163
 NO-STUFF for Invensense DOE



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.

SYNC_MASTER=N71_SINGLE_BRD		SYNC_DATE=05/29/2014	
PAGE TITLE			
SENSORS: MOTION SENSORS			
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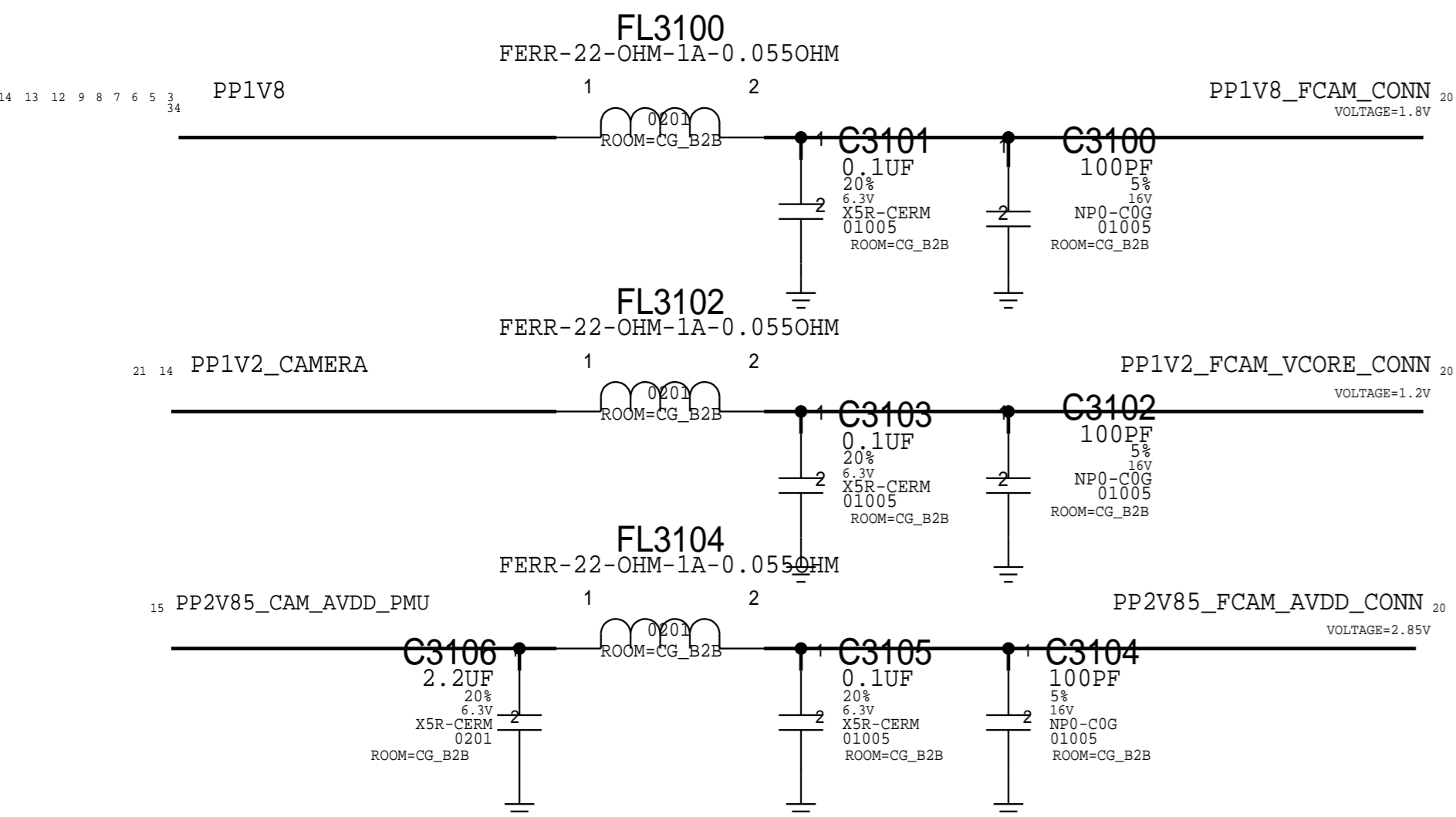
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FRONT CAMERA FLEX

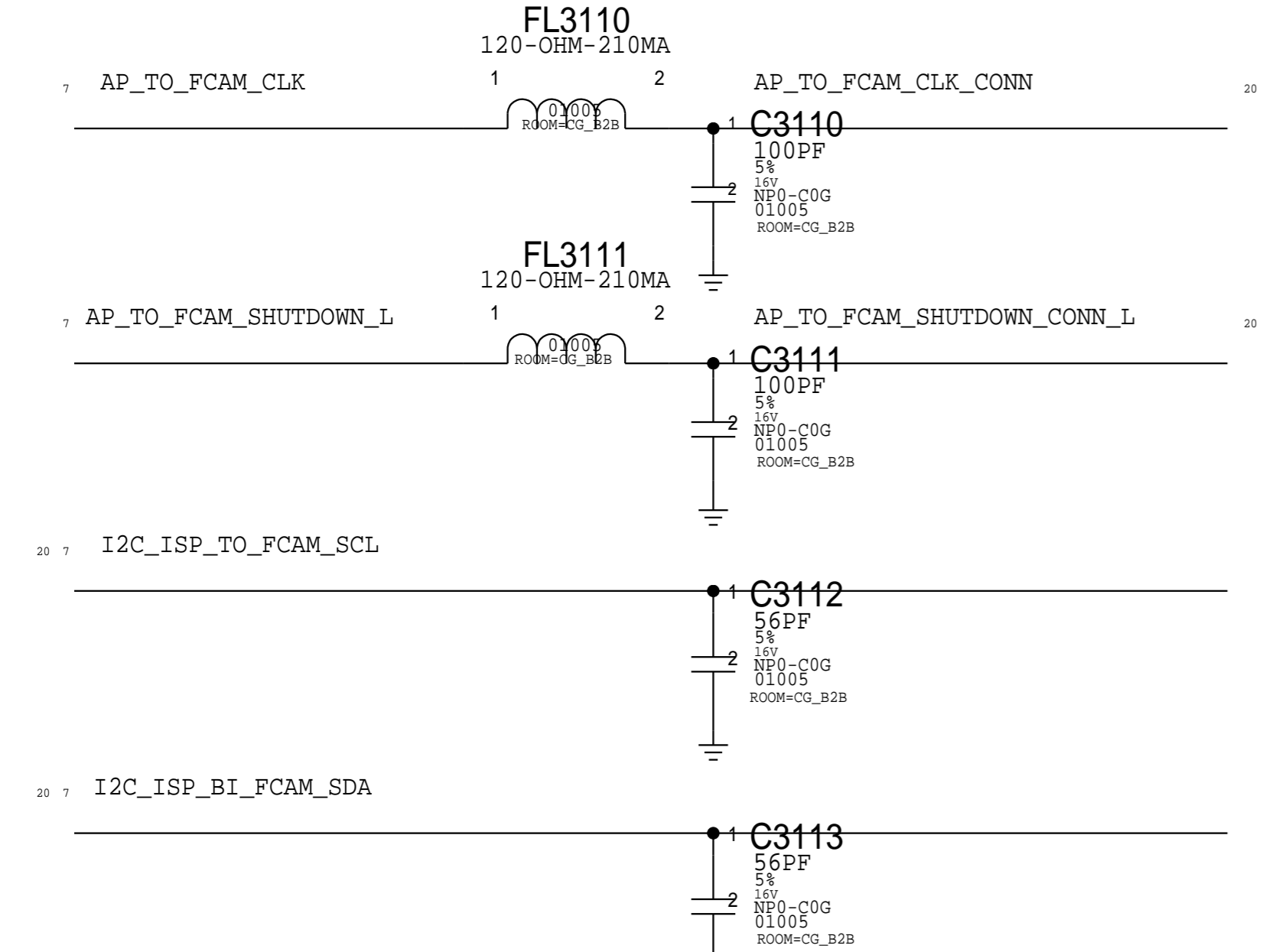
PROX & ALS POWER

FCAM CONNECTOR

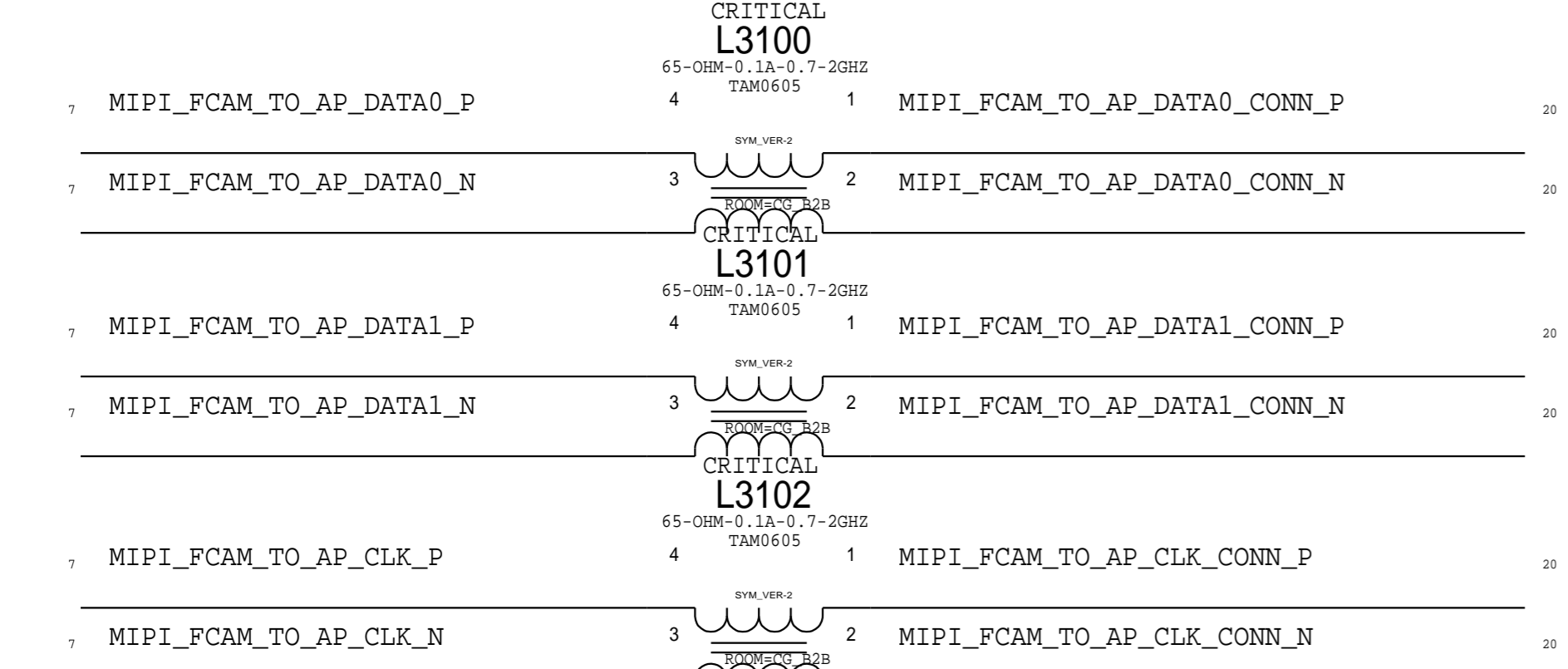
CAMERA POWER



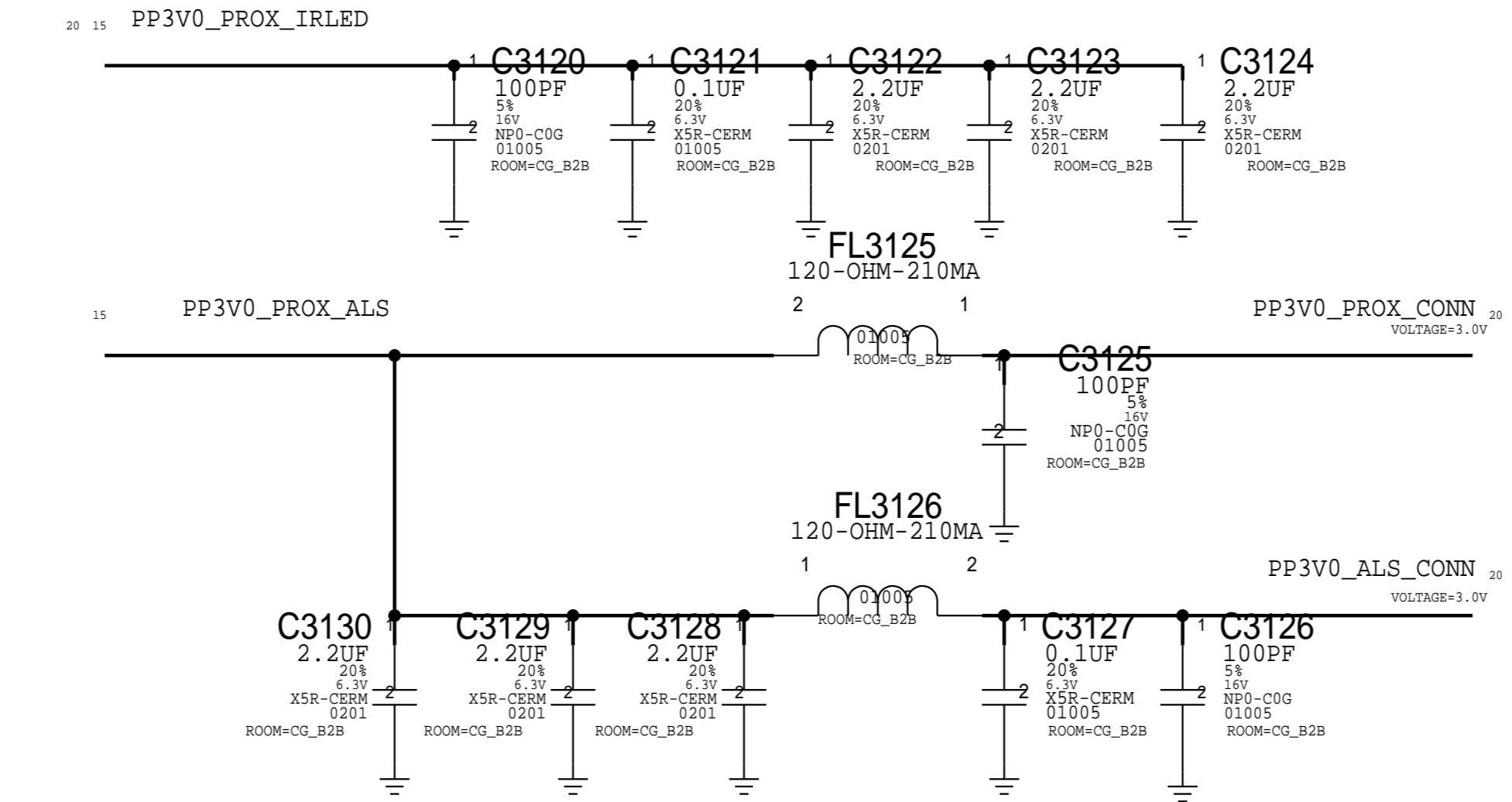
CAMERA I/O



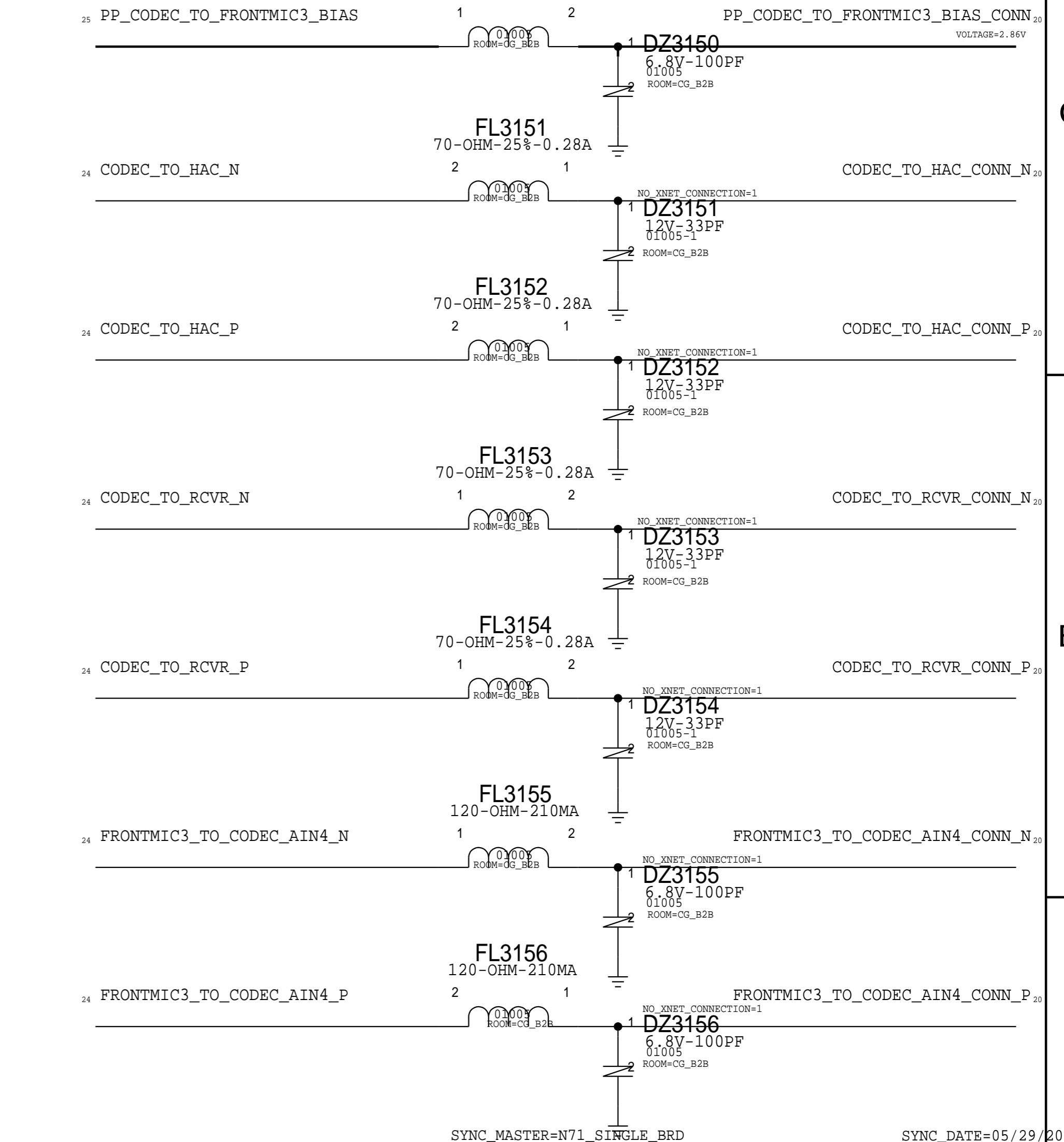
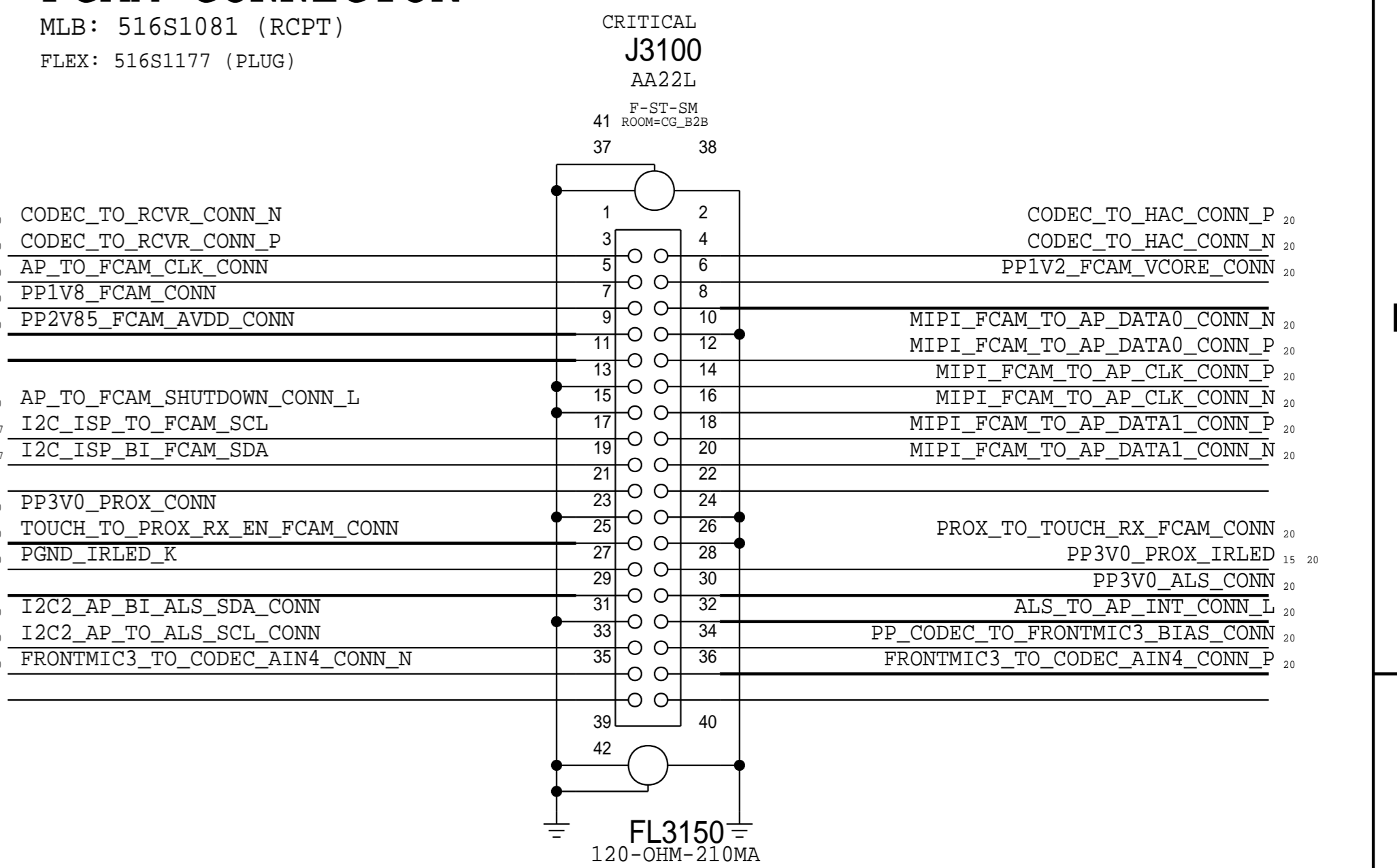
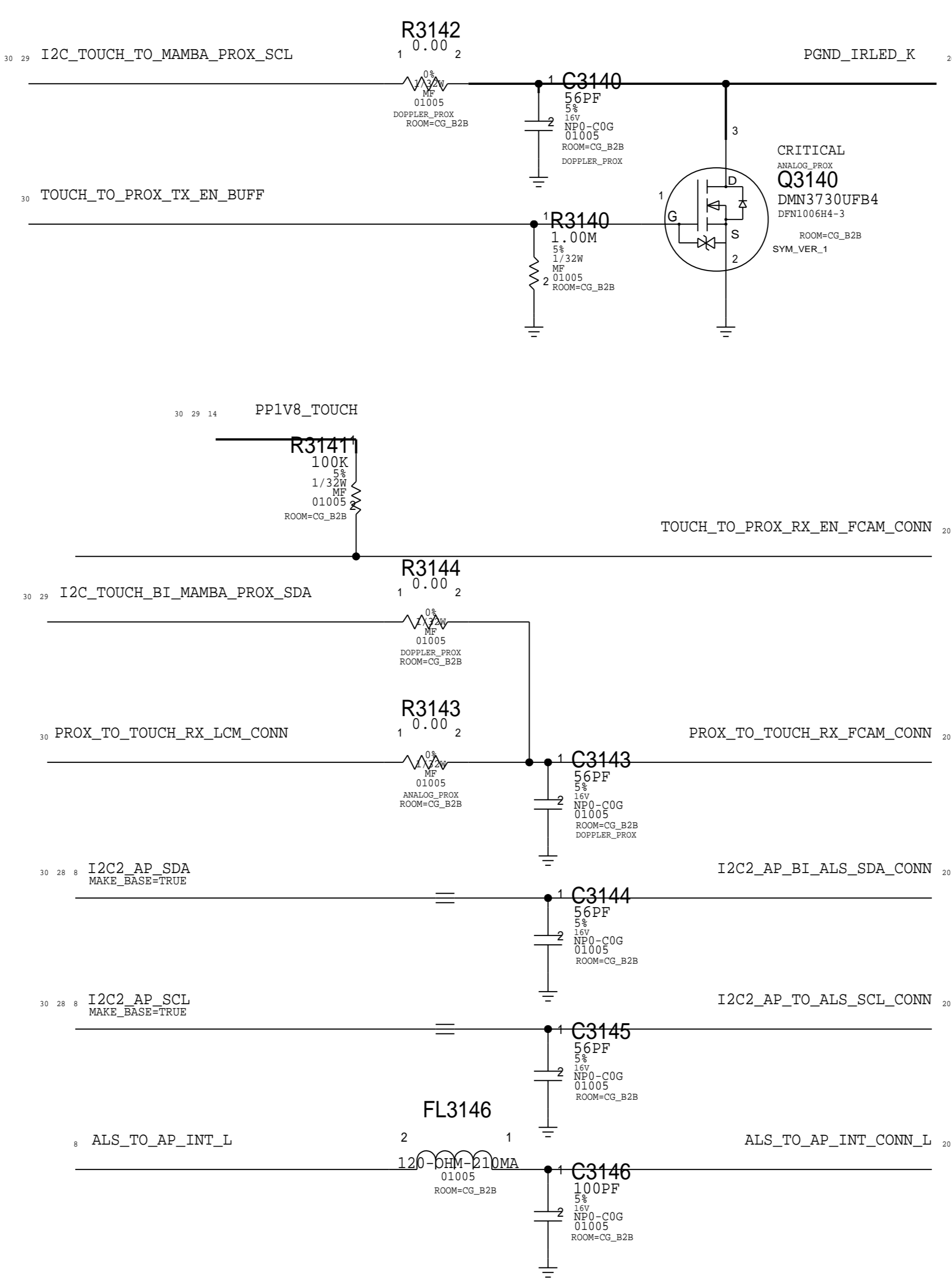
CAMERA MIPI



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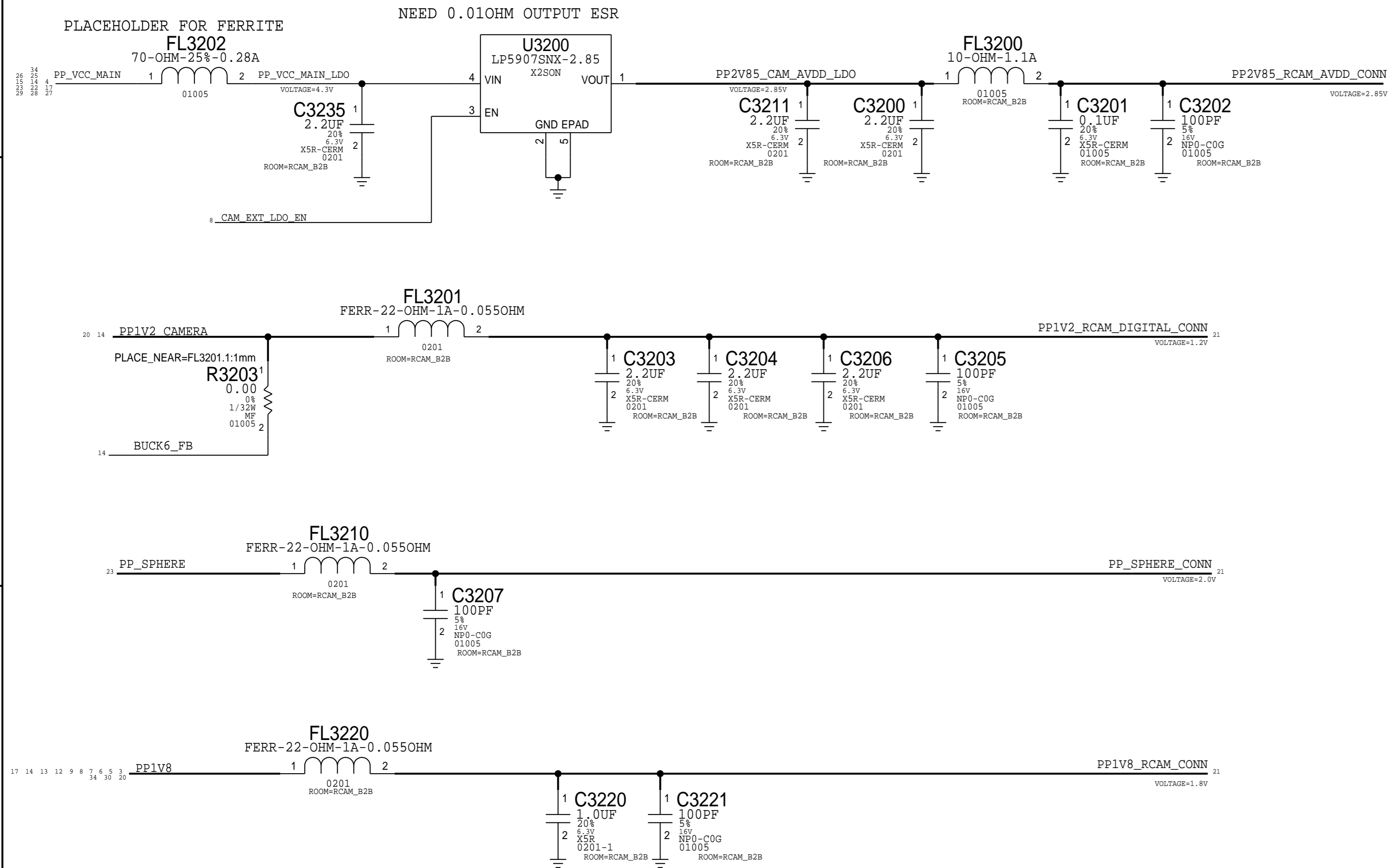
PROX & ALS INTERFACE



PAGE TITLE: CAMERA FRONT CAMERA B2B		DRAWING NUMBER: 051-00094	
REVISION: A.0.0		SIZE: D	
BRANCH:		PAGE: 31 OF 49	
SHEET: 20 OF 60		NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	

REAR CAMERA FLEX

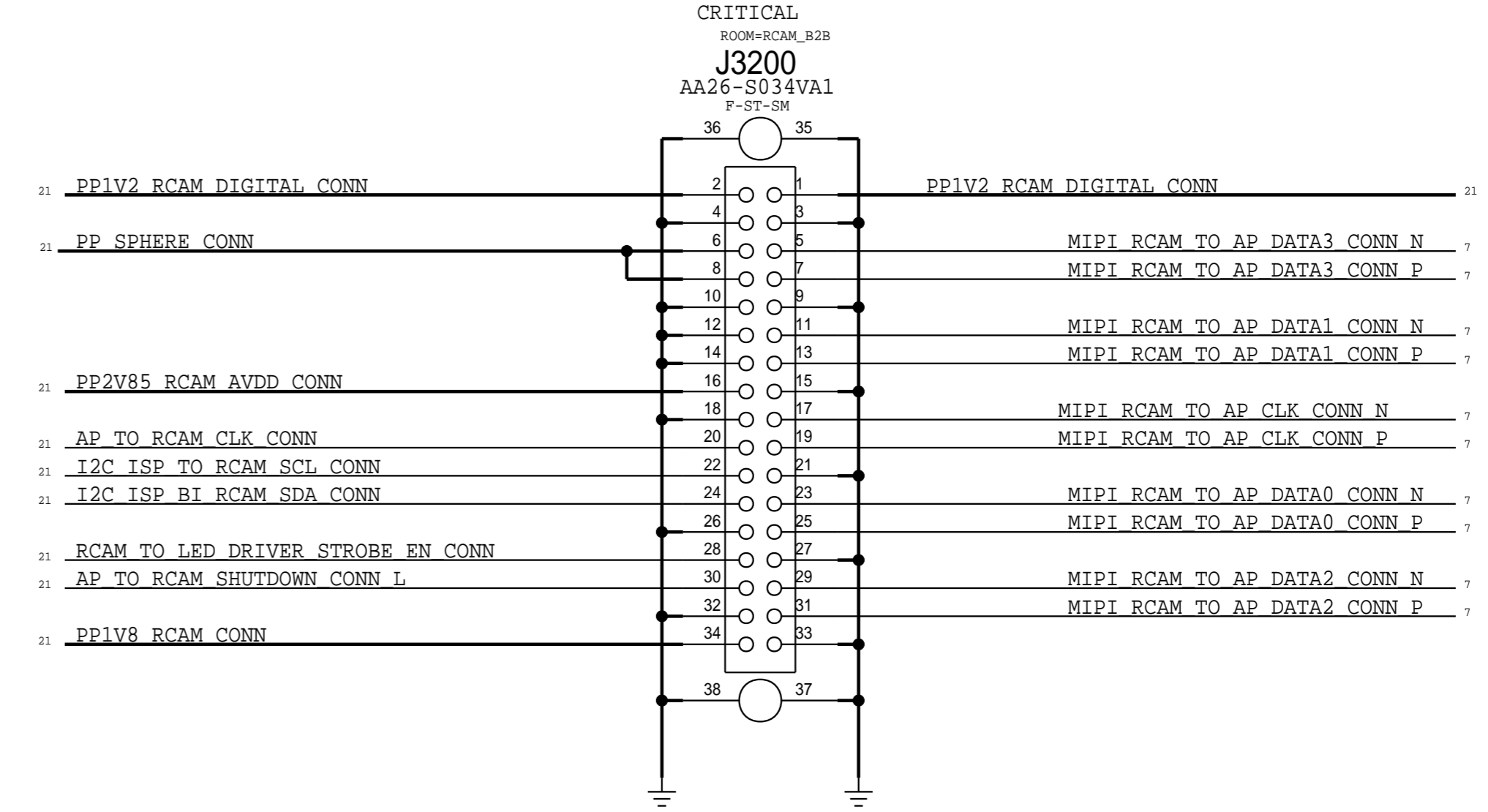
CAMERA POWER/MAMBA LDO



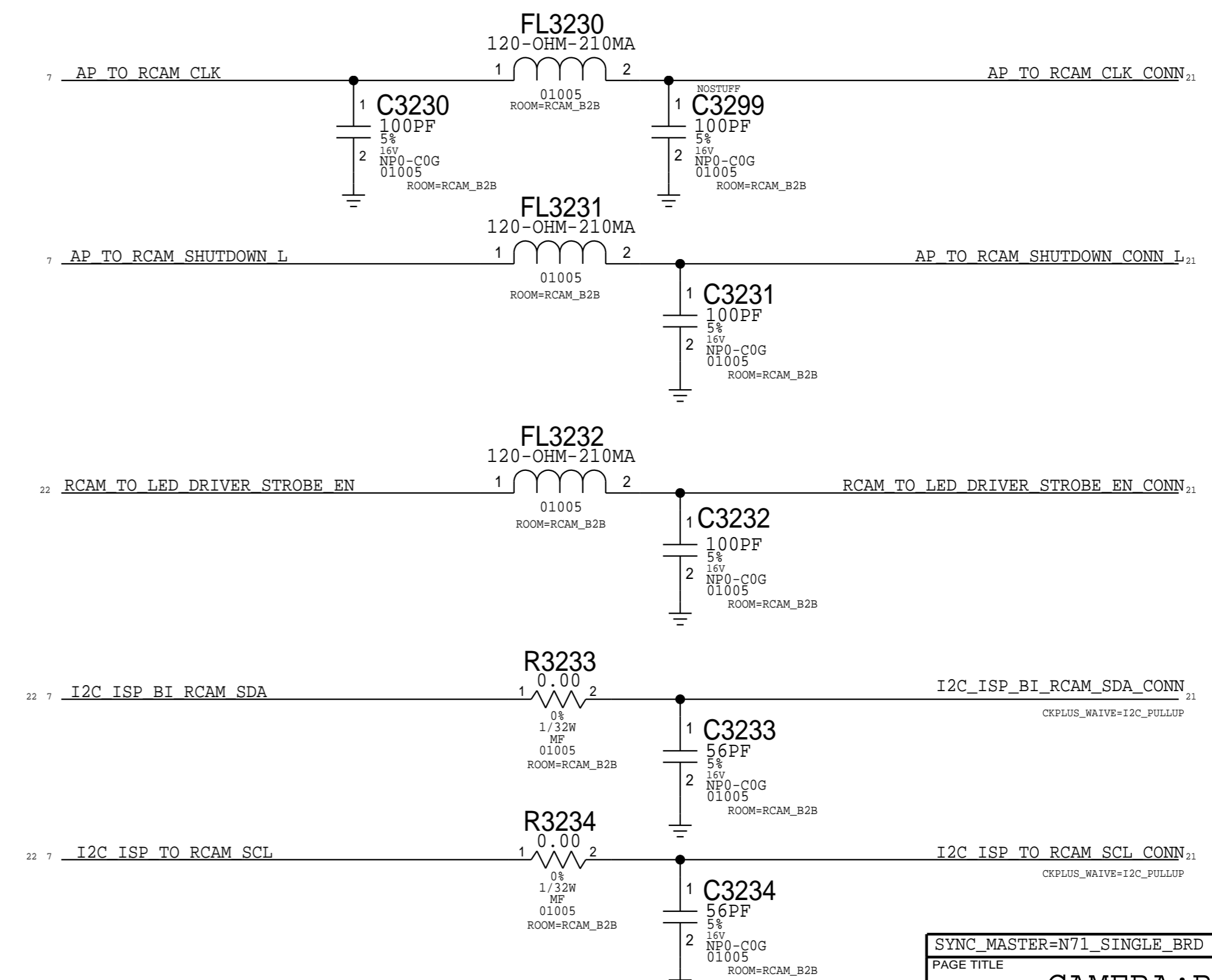
RCAM CONNECTOR

MLB: 516S00043 (RCPT)

FLEX: 516S00042 (PLUG)



Digital I/O

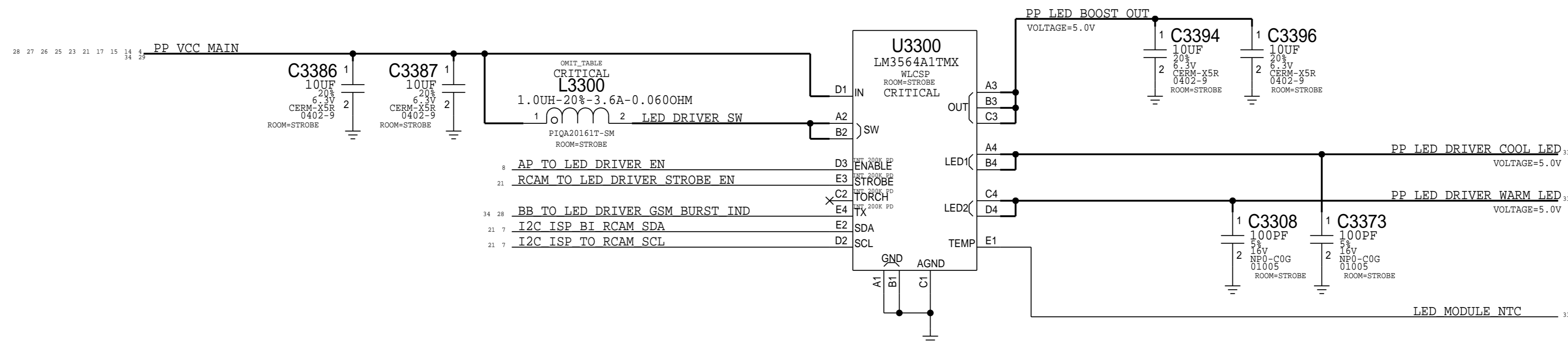


<http://www.mfcbox.com>

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DUAL LED STROBE DRIVER

APN: 353S3899



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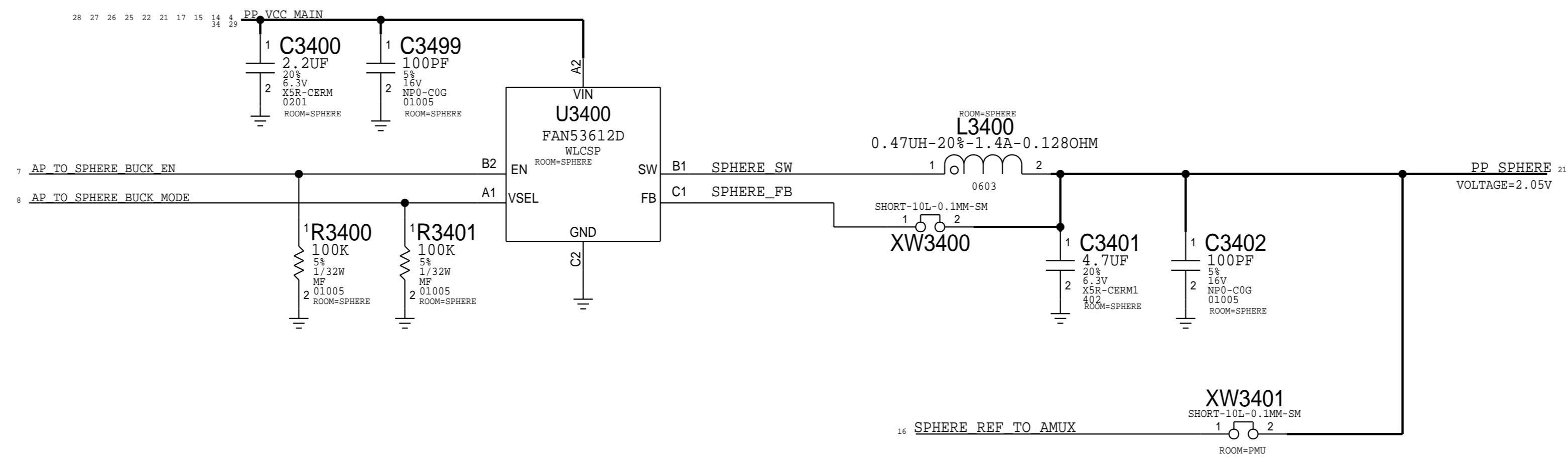
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Sphere Driver

APN: 353S00584



<http://www.mfcbox.com>

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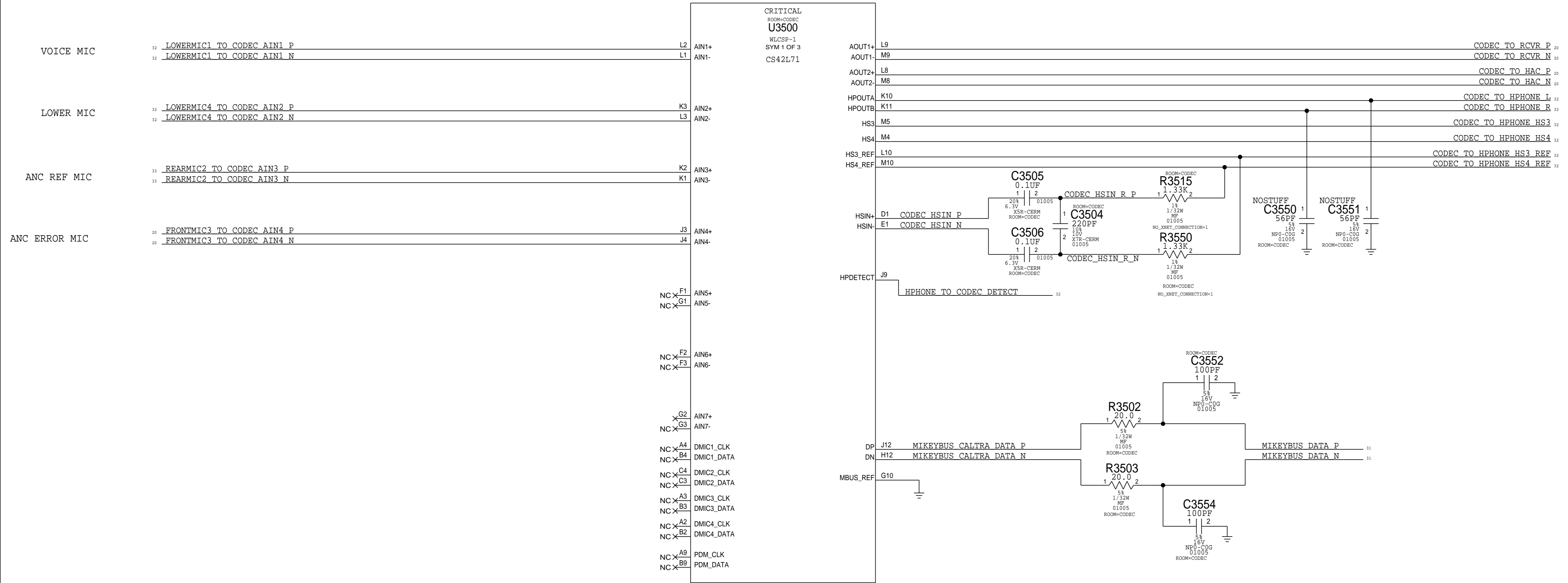
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CALTRA AUDIO CODEC (ANALOG INPUTS & OUTPUTS)

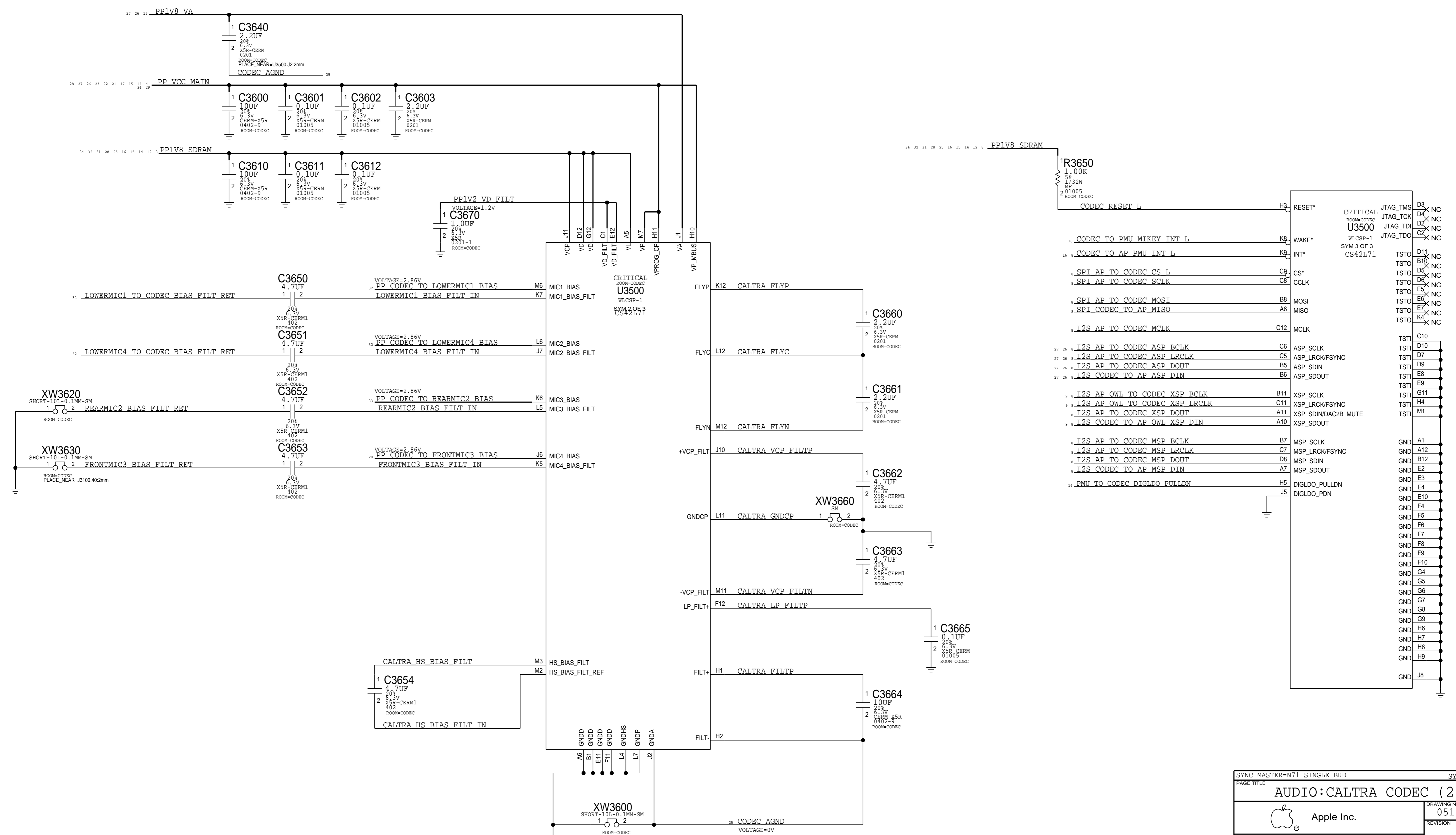
APN: 338S00105



<http://www.mfcbox.com>

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Apple Inc.	DRAWING NUMBER	051-00094	SIZE
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		SHEET	24 OF 60

CALTRA AUDIO CODEC (POWER & I/O)

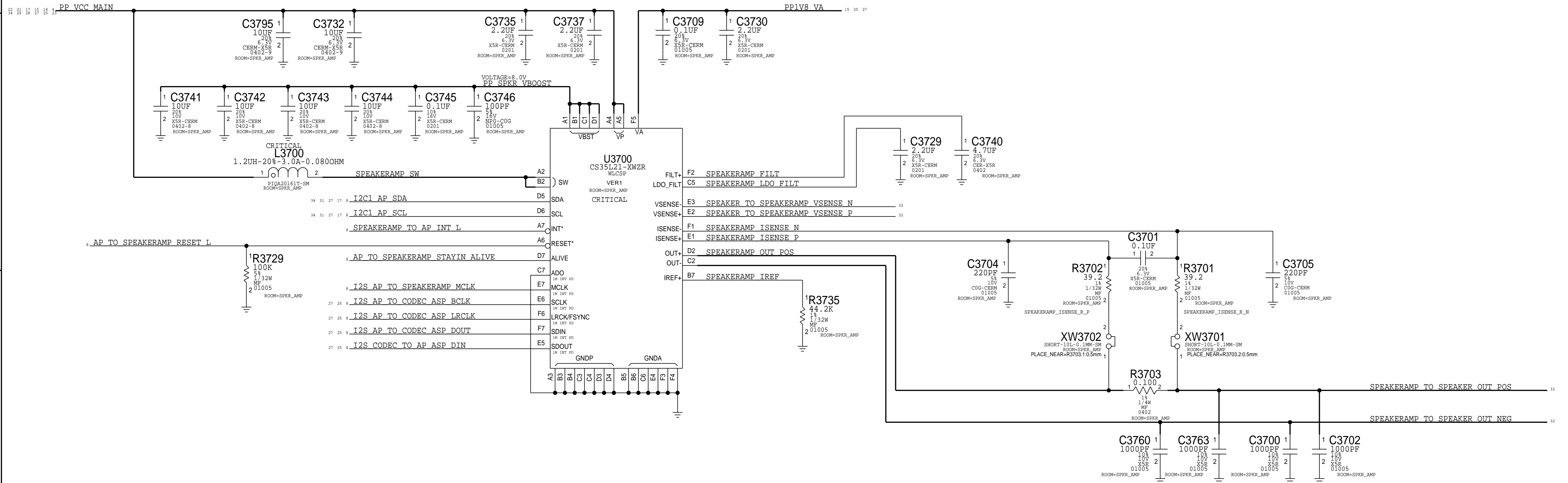


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PAGE		36 OF 49	
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<http://www.mfcbox.com>

SPEAKER AMPLIFIER

APN: 338S1285
I2C ADDRESS: 1000000



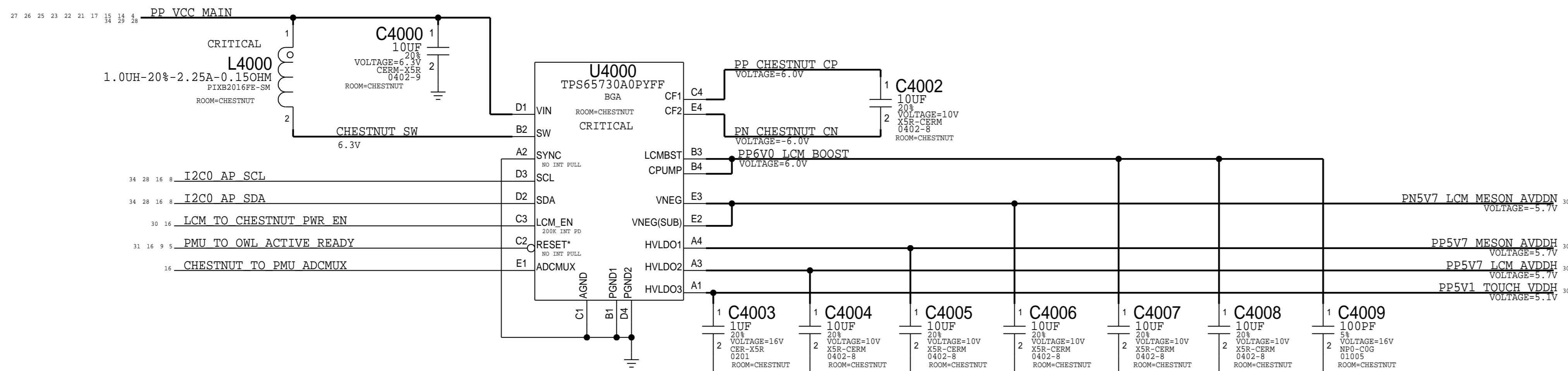
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PAGE	37 OF 49		
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DISPLAY & TOUCH - POWER SUPPLIES

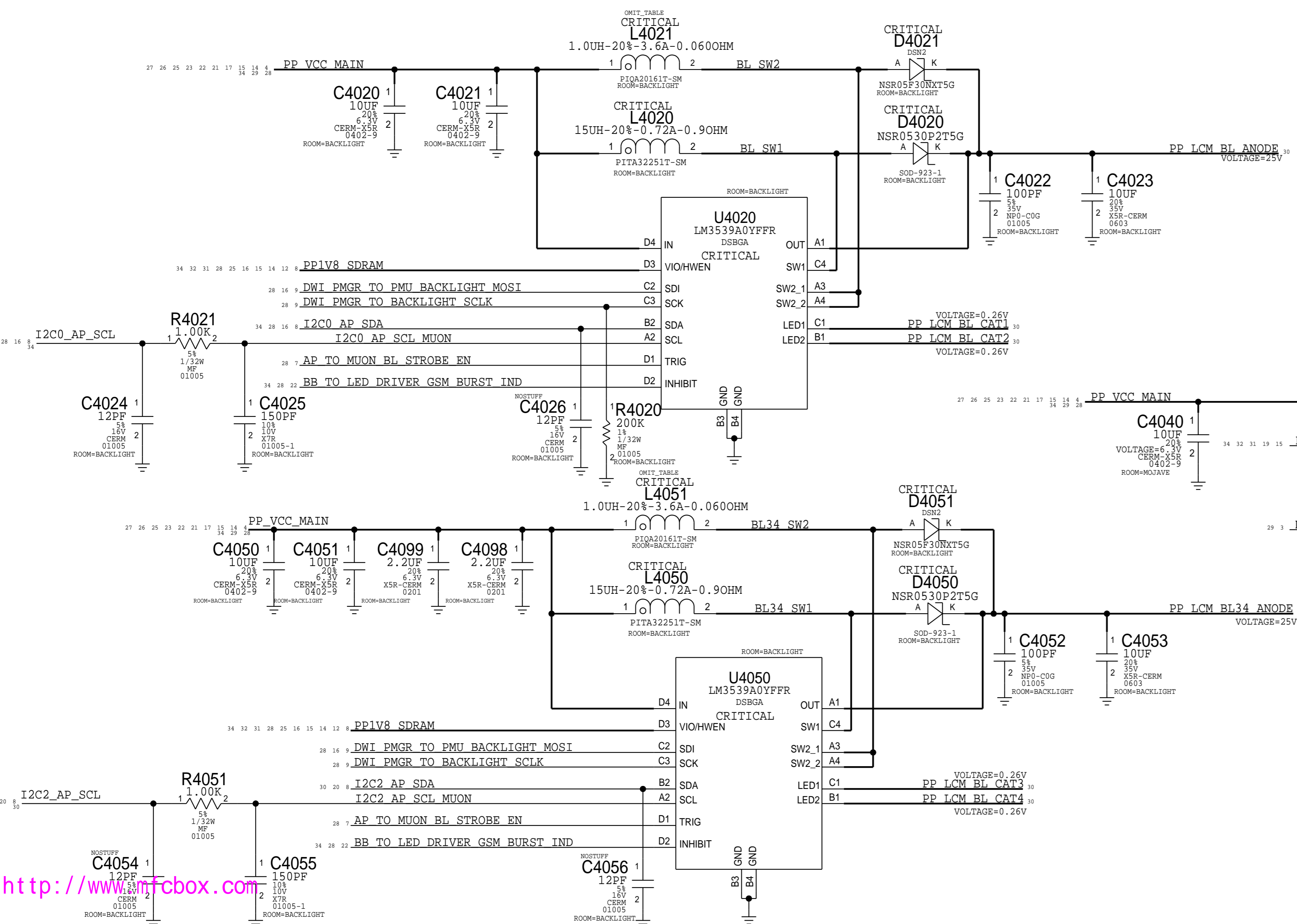
CHESTNUT DISPLAY PMU

APN: 338S1172



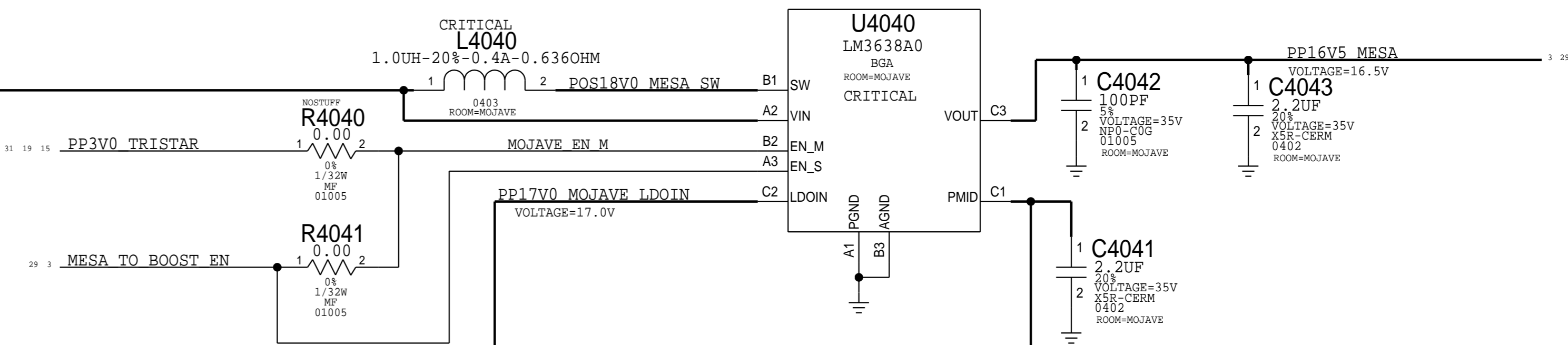
LED BACKLIGHT DRIVERS

APN: 353S00407



MOJAVE MESA BOOST

APN: 353S00671



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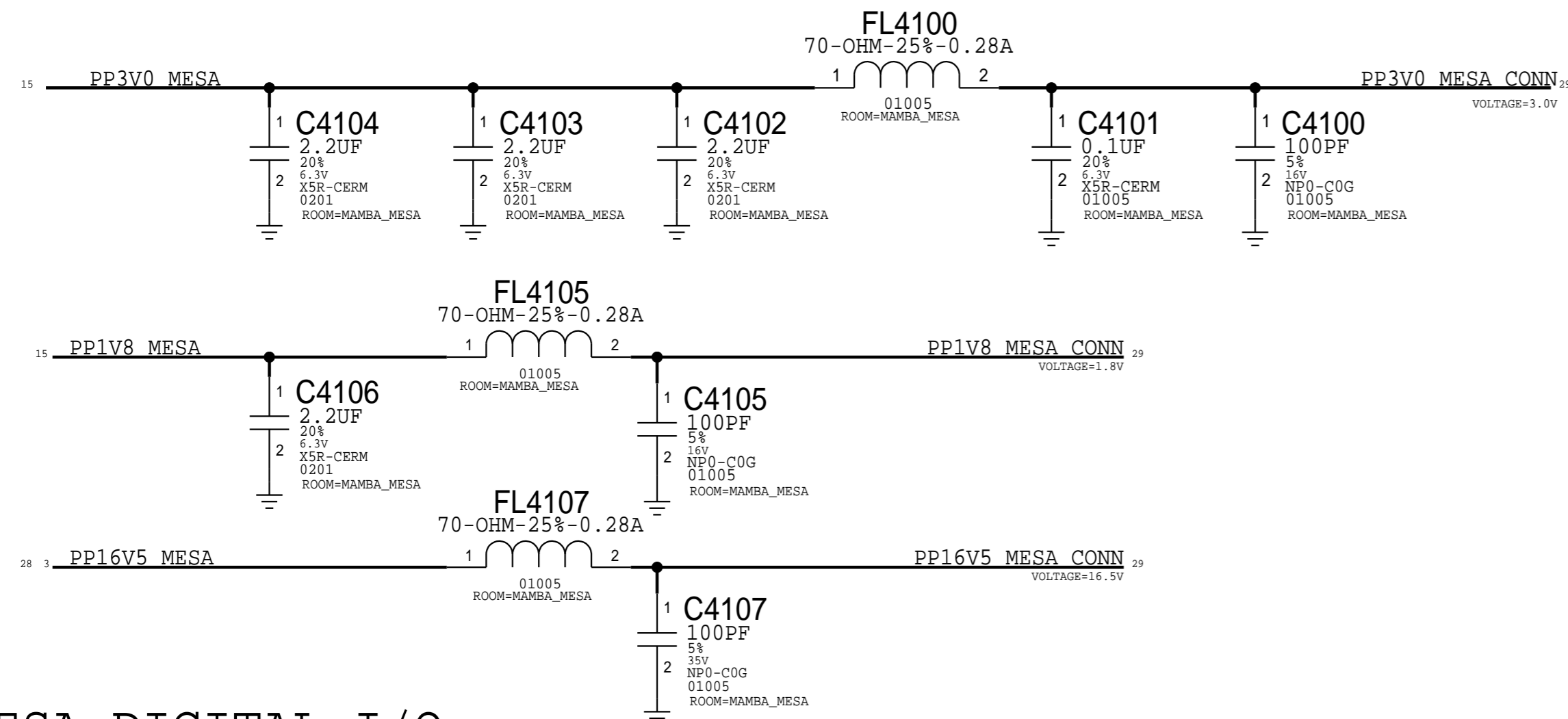
http://www.fcbx.com

MAMBA & MESA FLEX

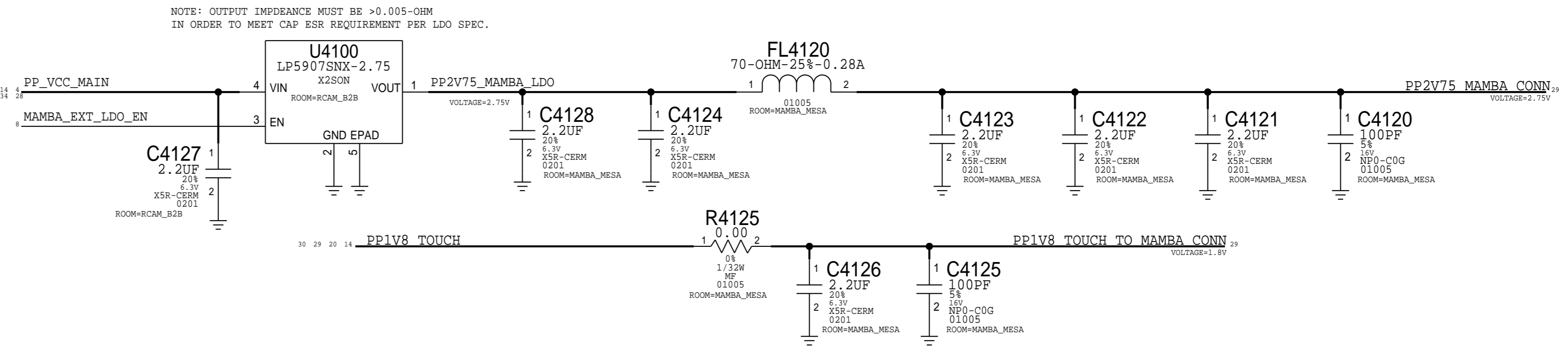
ORB & MESA CONNECTOR

MLB: 516S00056 (RCPT)

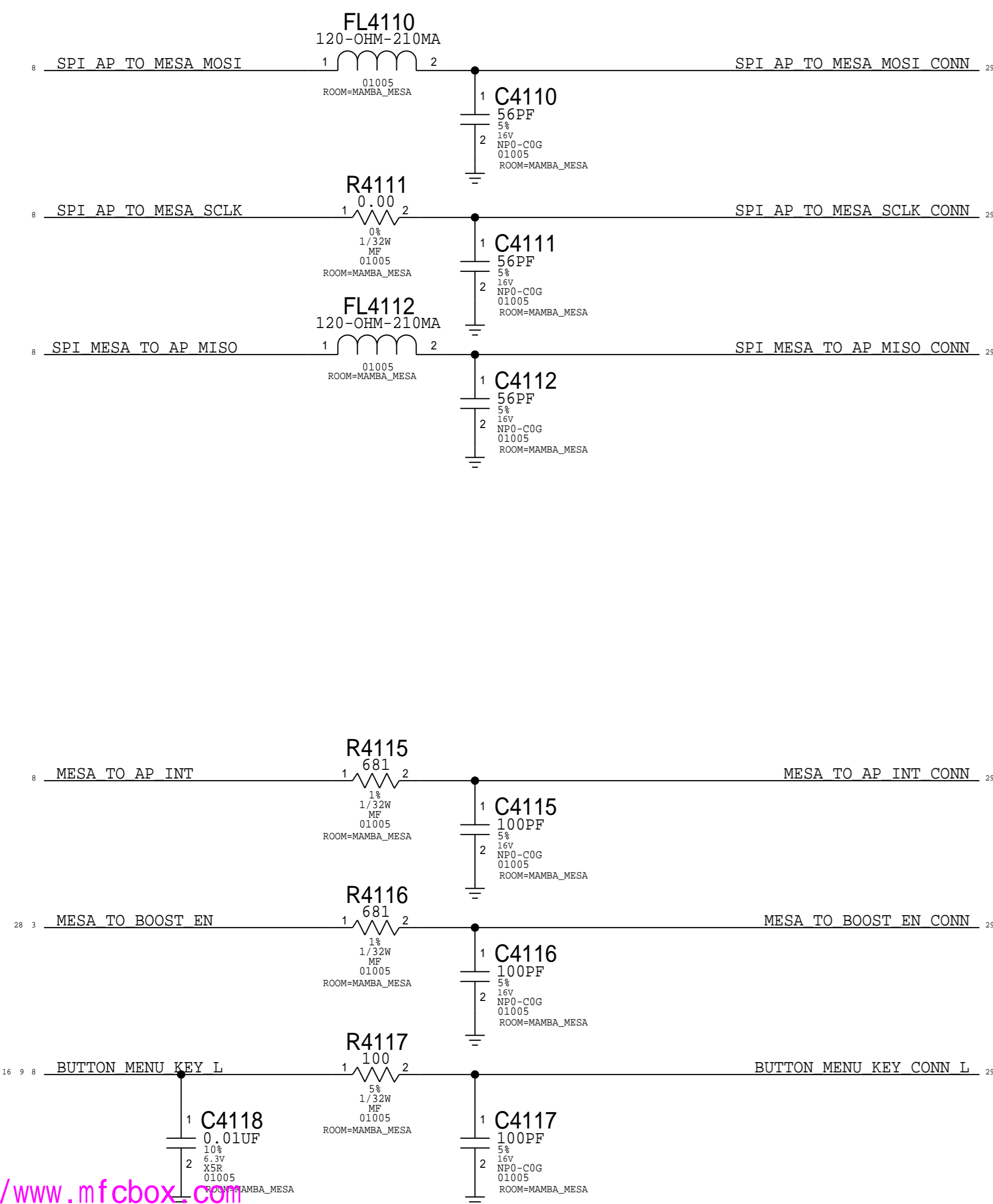
MESA POWER



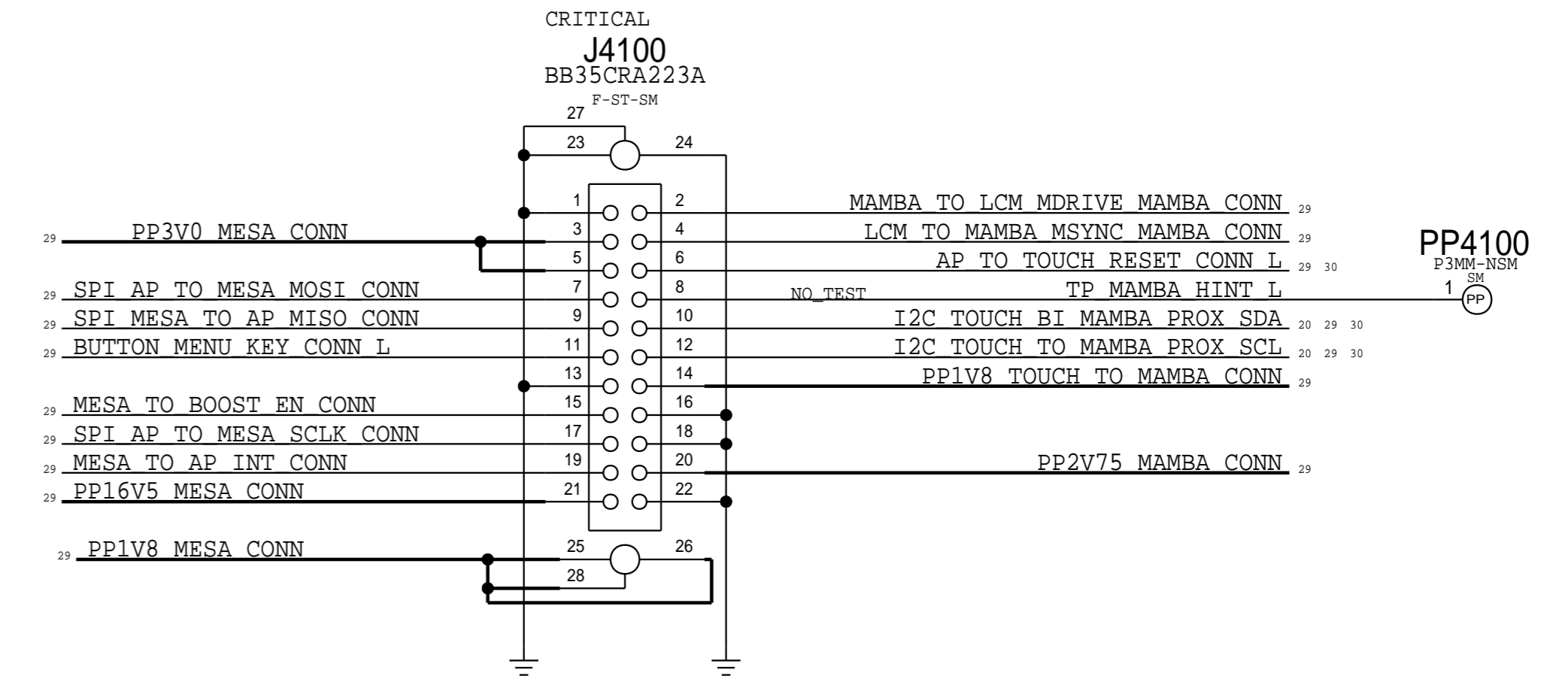
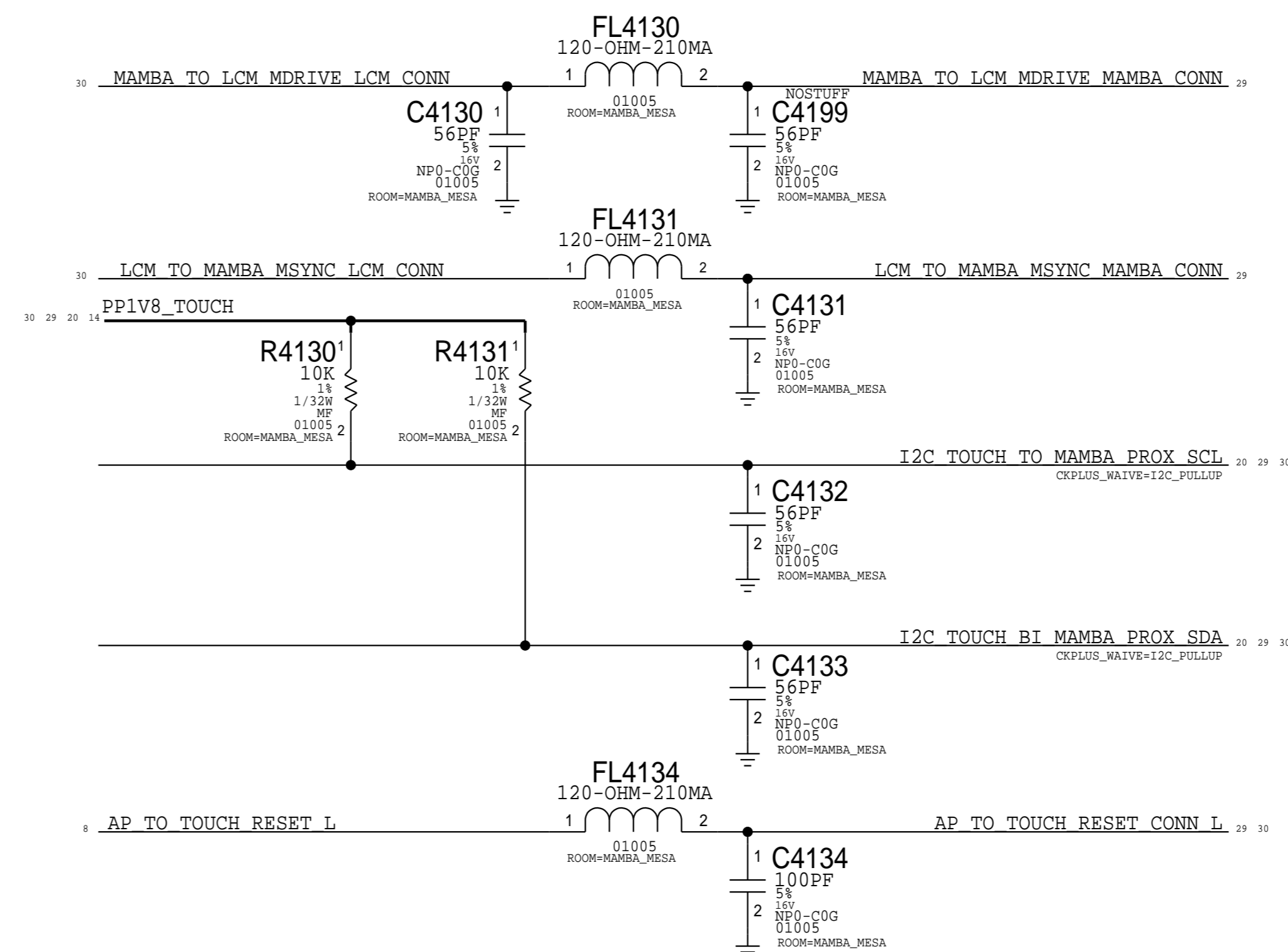
MAMBA POWER



MESA DIGITAL I/O



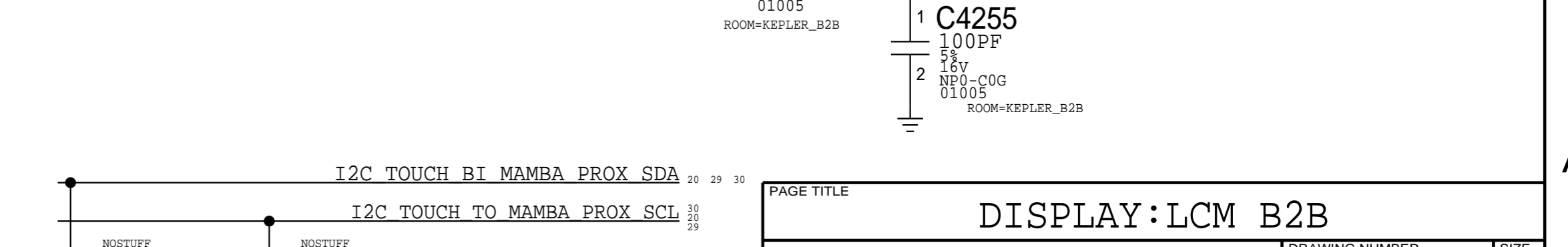
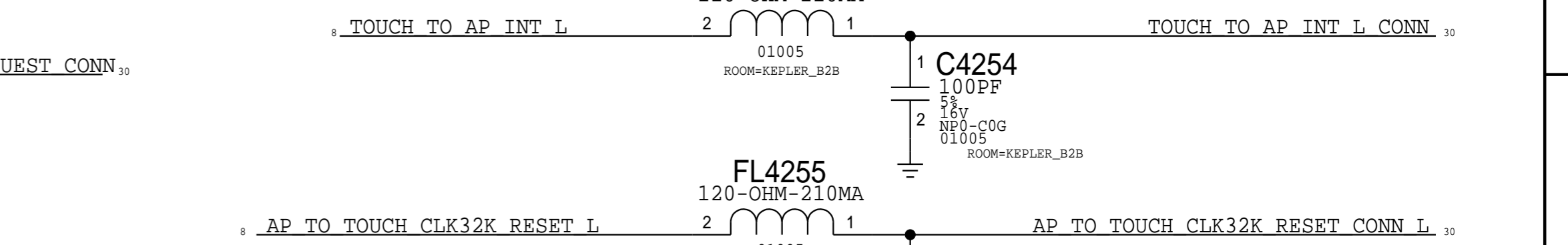
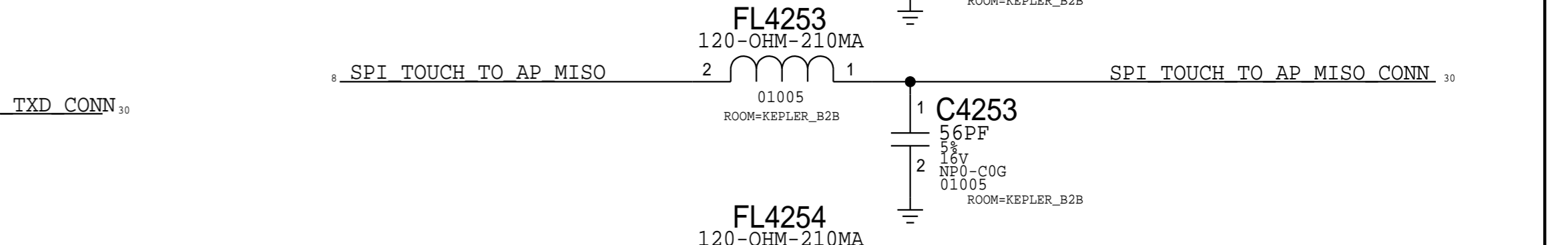
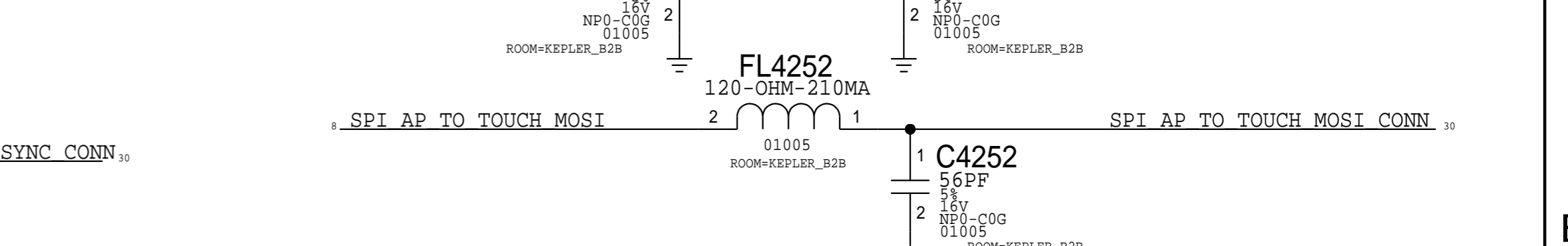
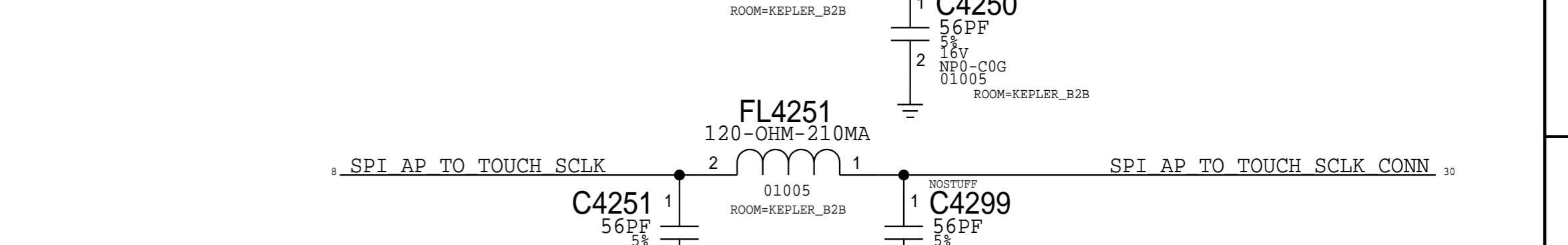
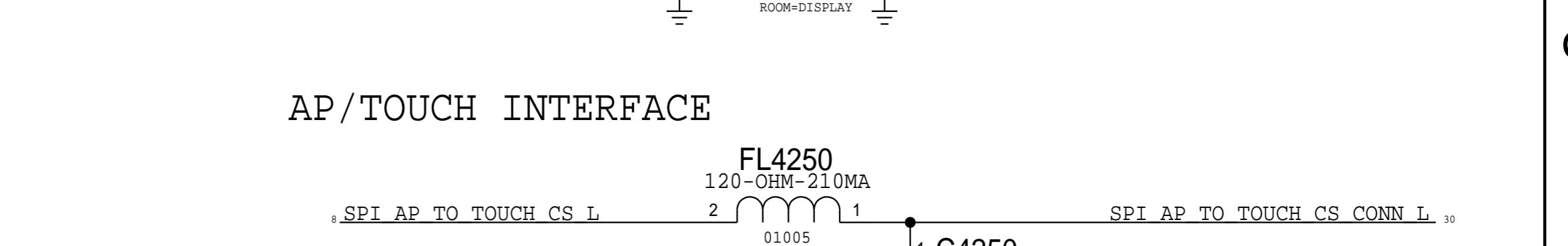
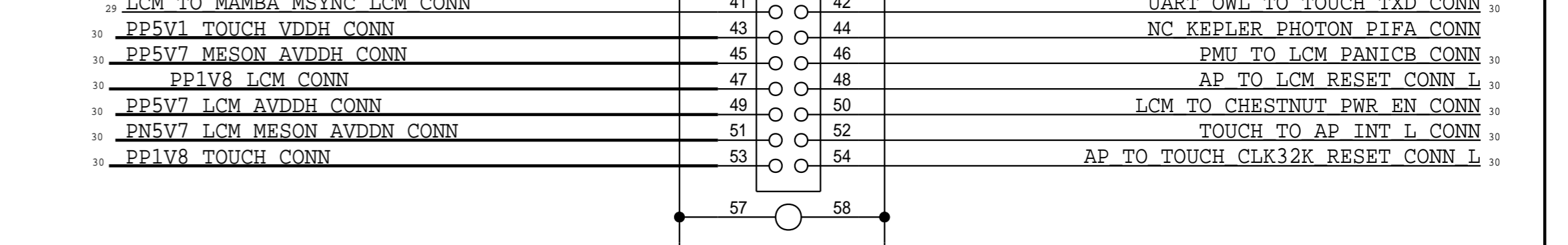
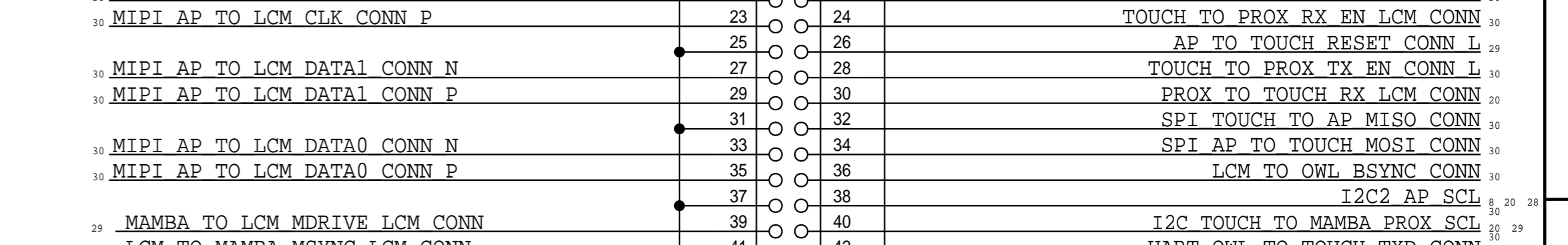
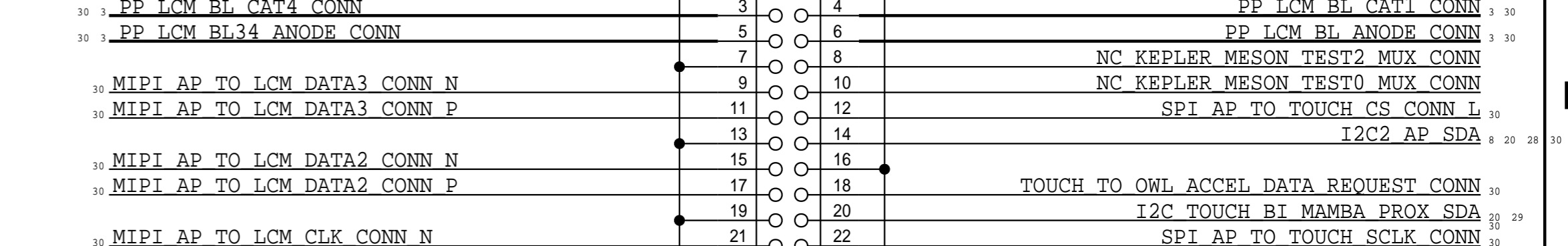
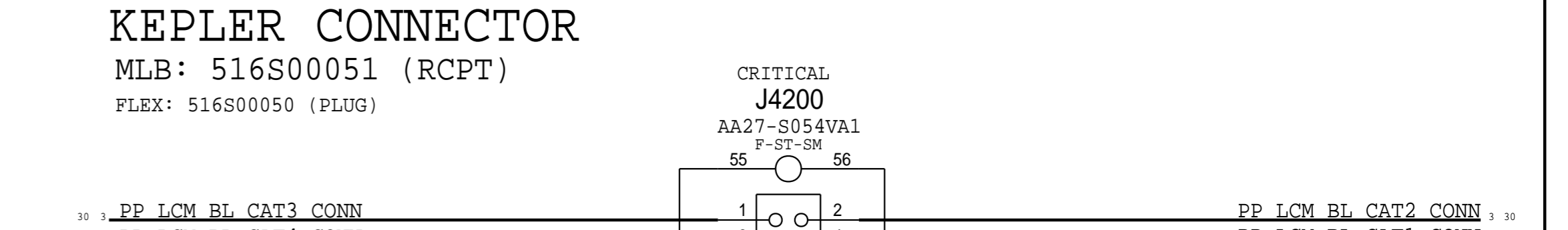
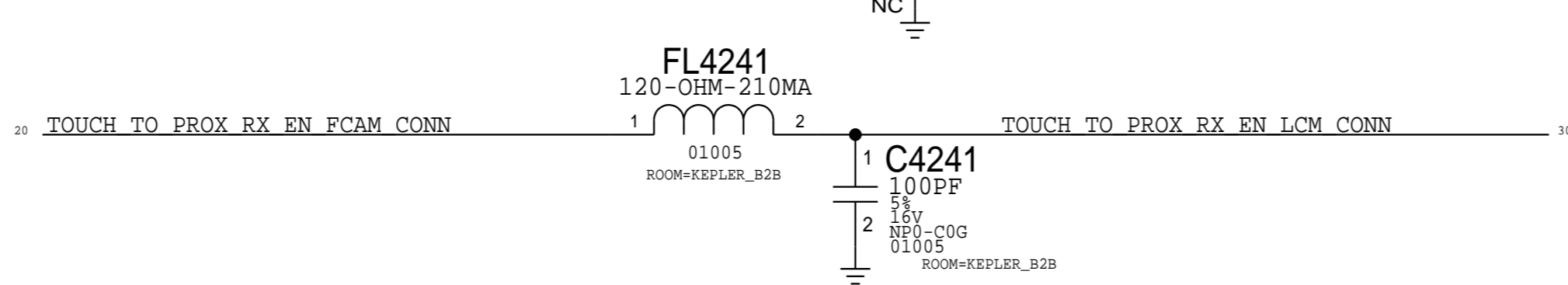
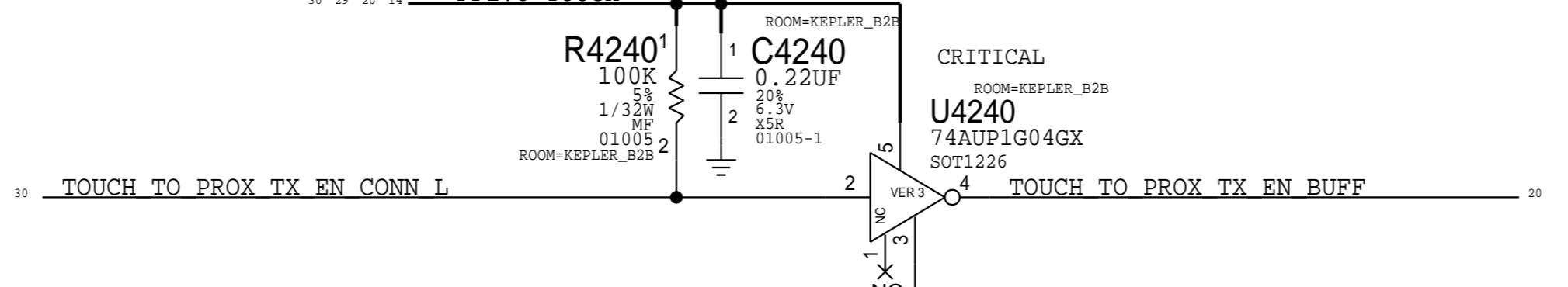
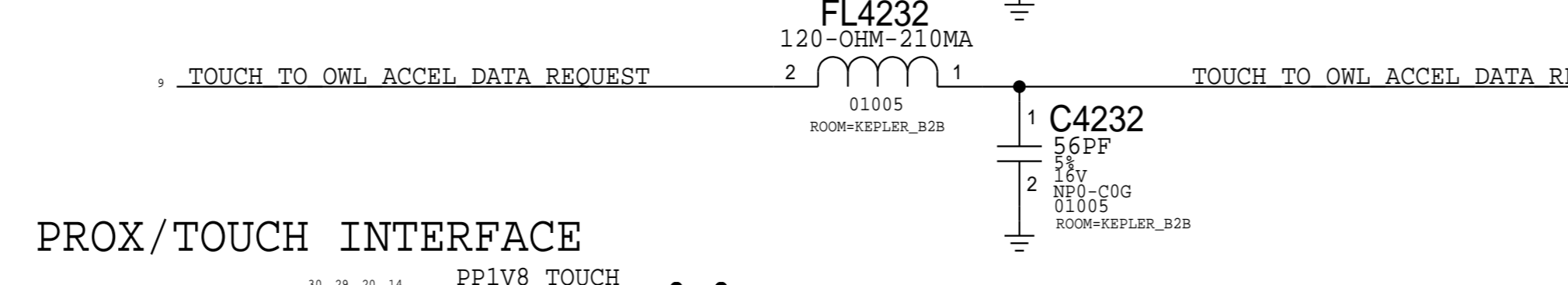
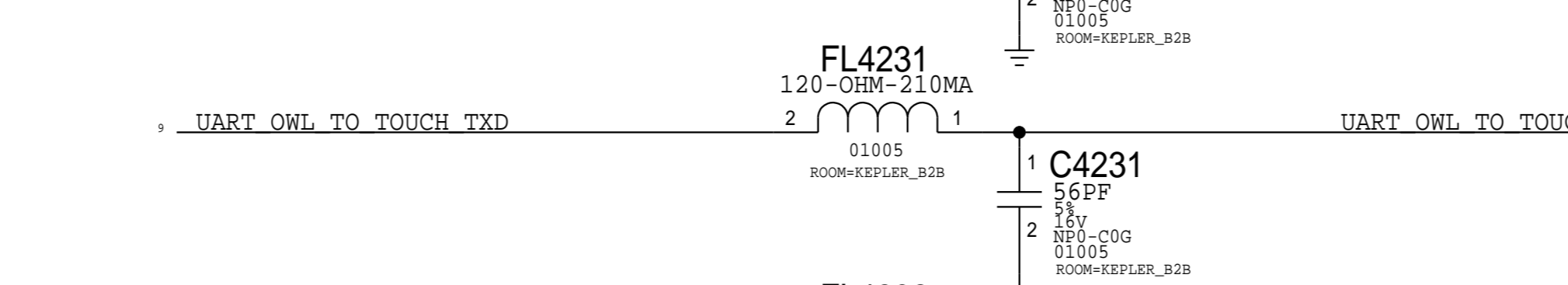
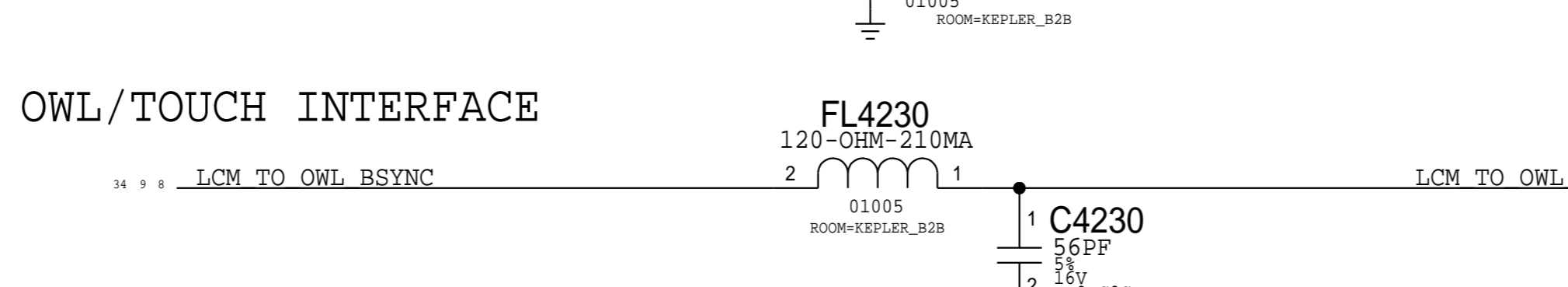
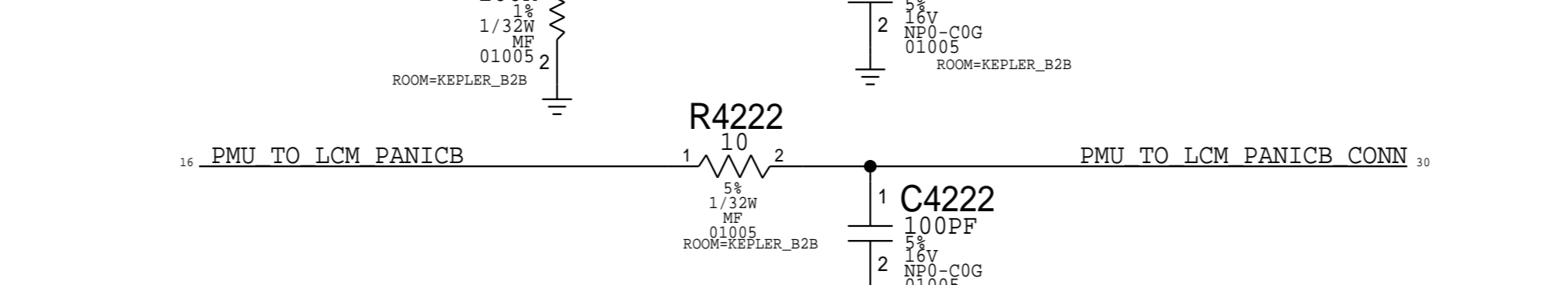
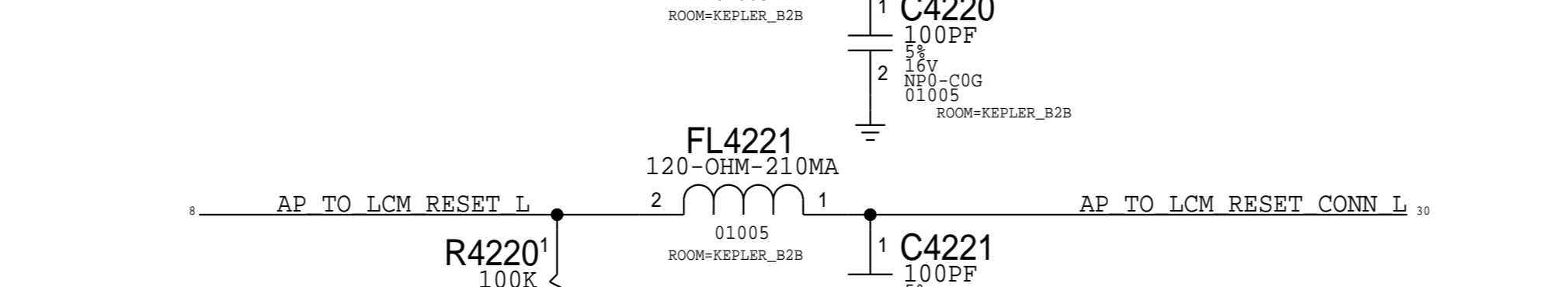
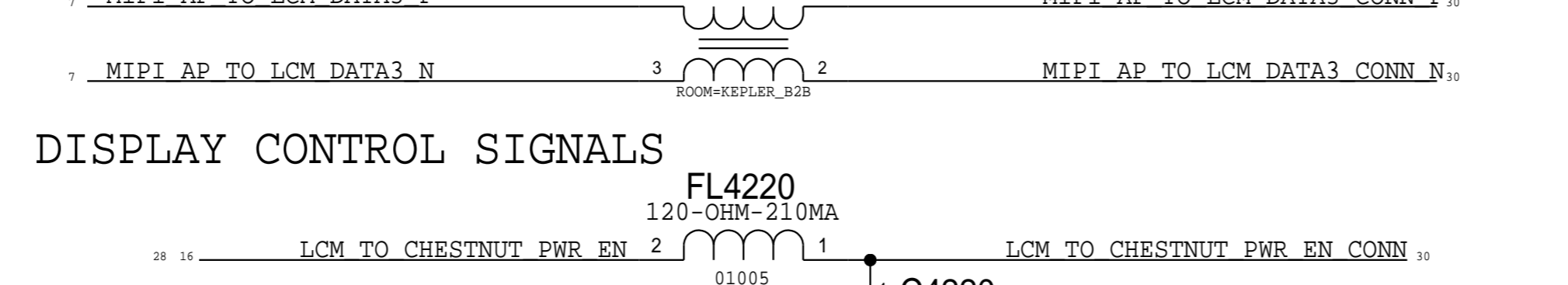
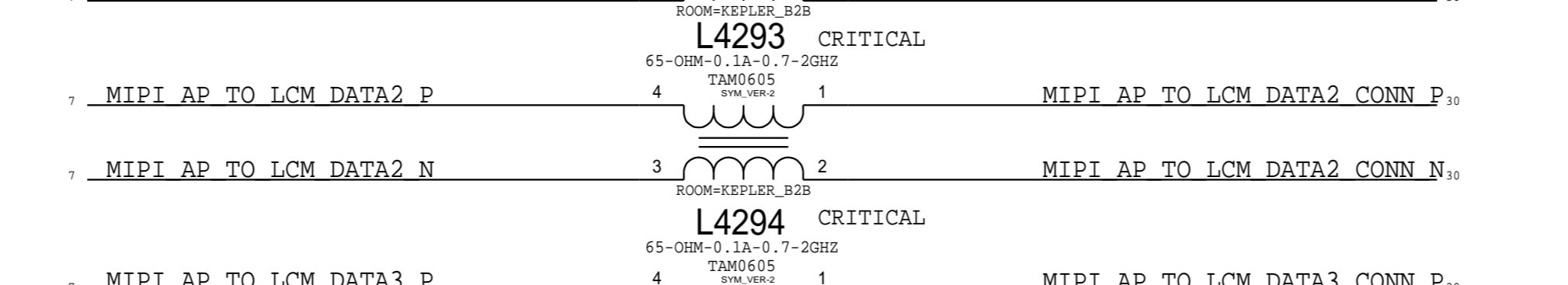
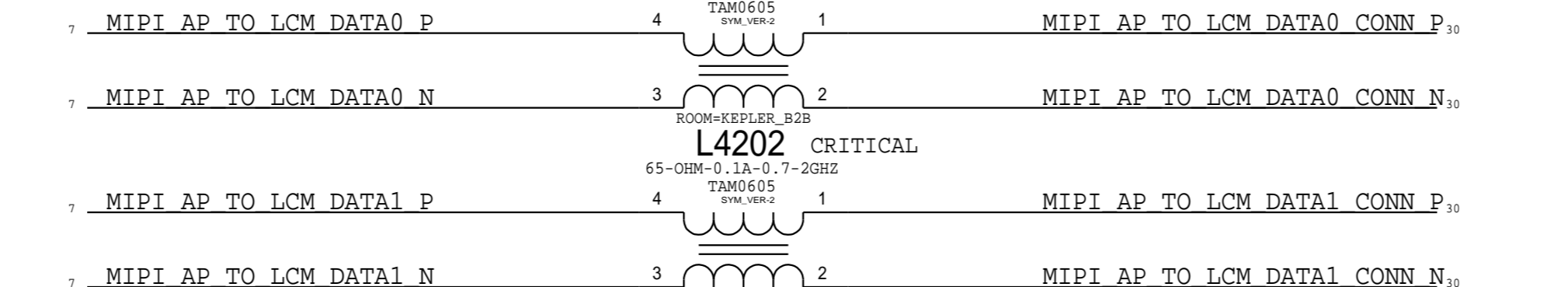
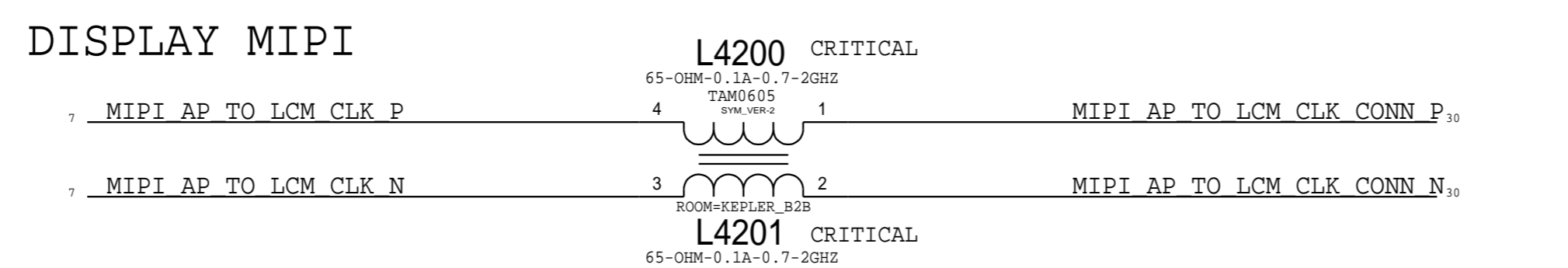
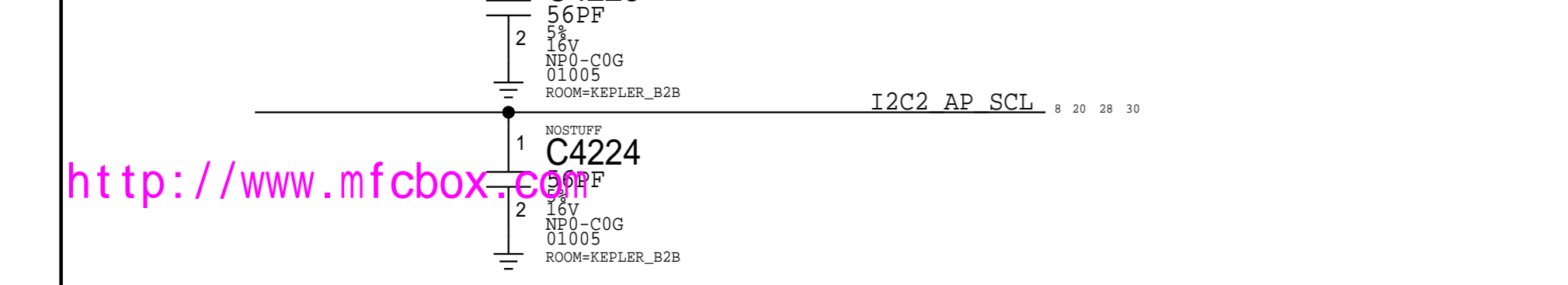
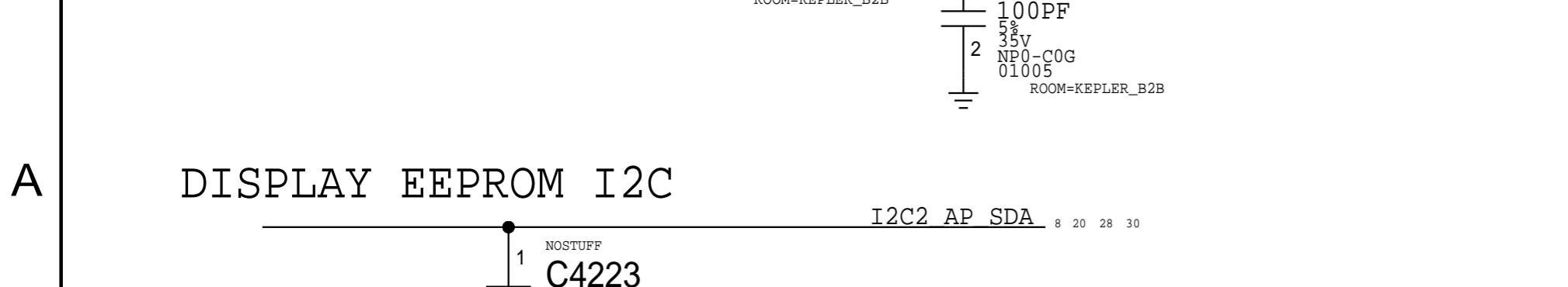
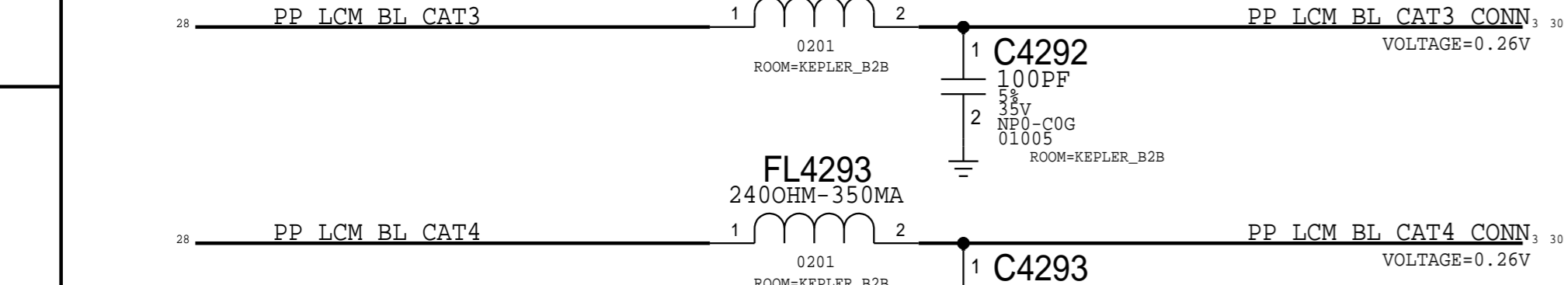
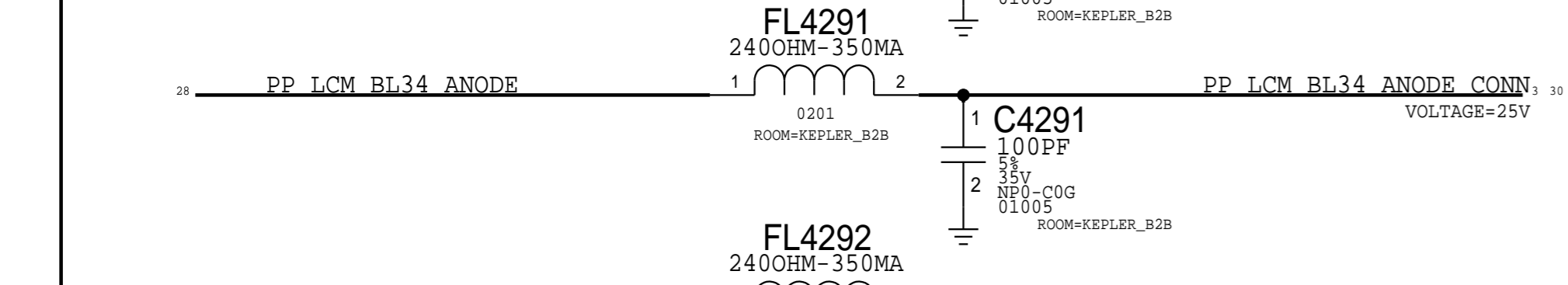
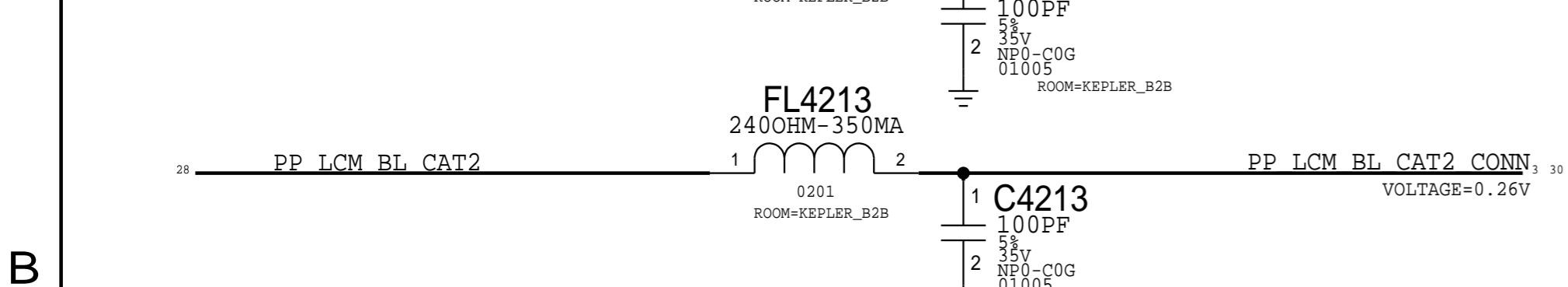
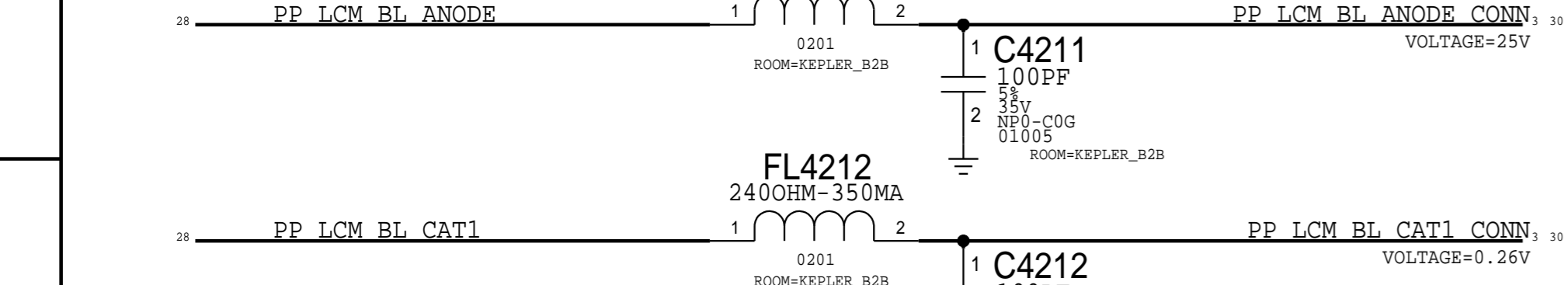
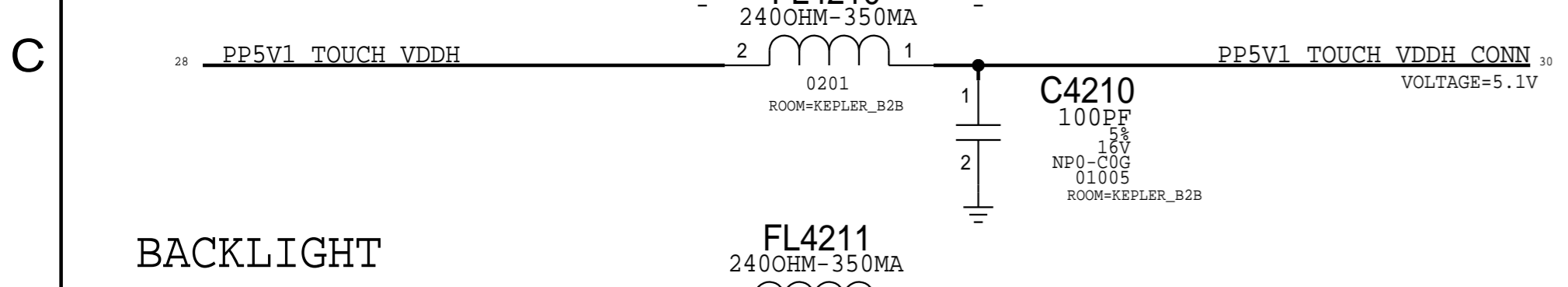
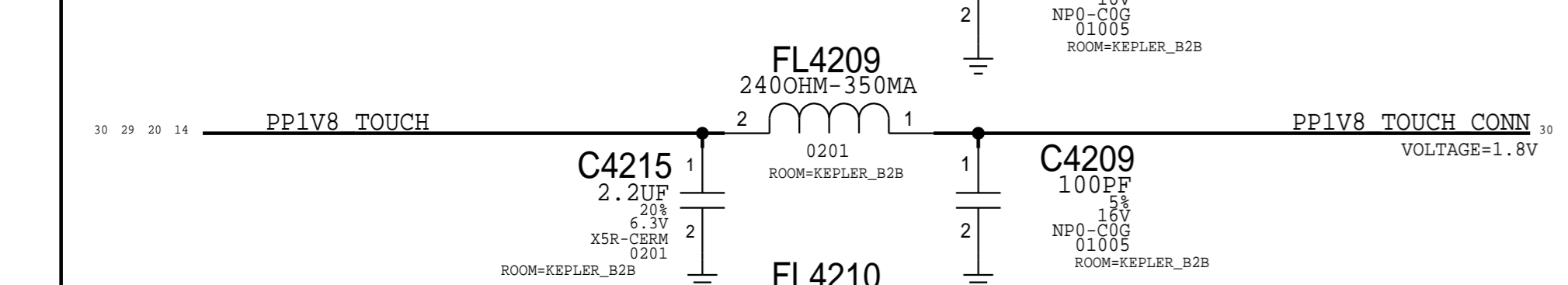
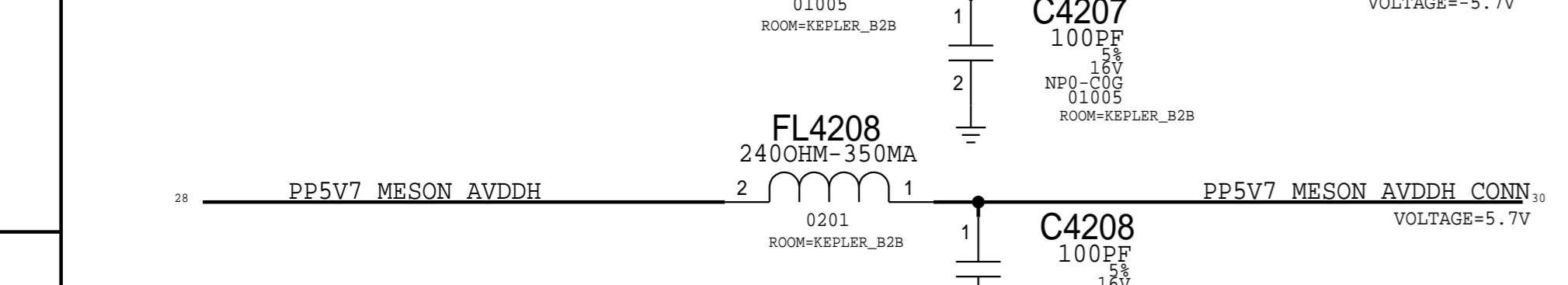
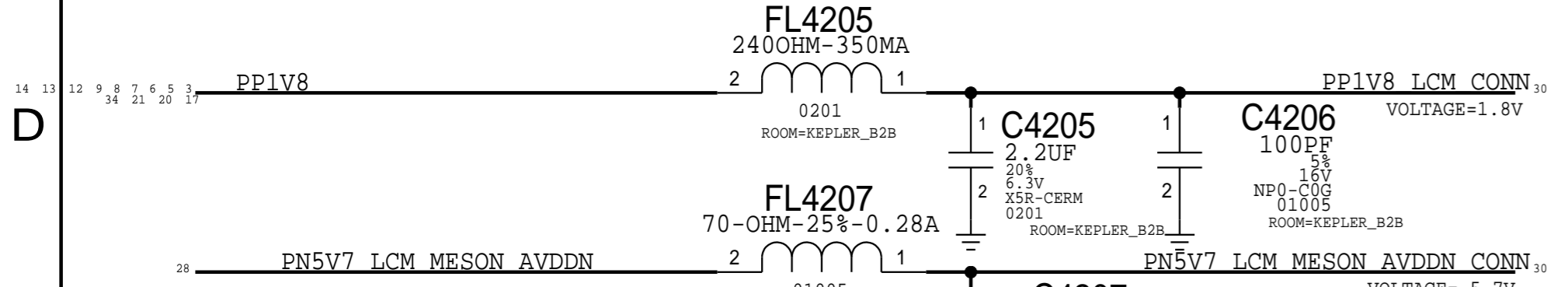
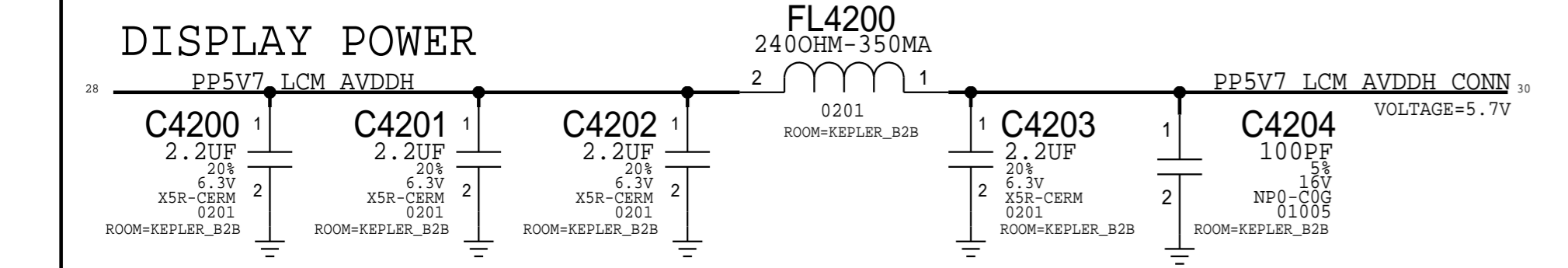
MAMBA DIGITAL I/O



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

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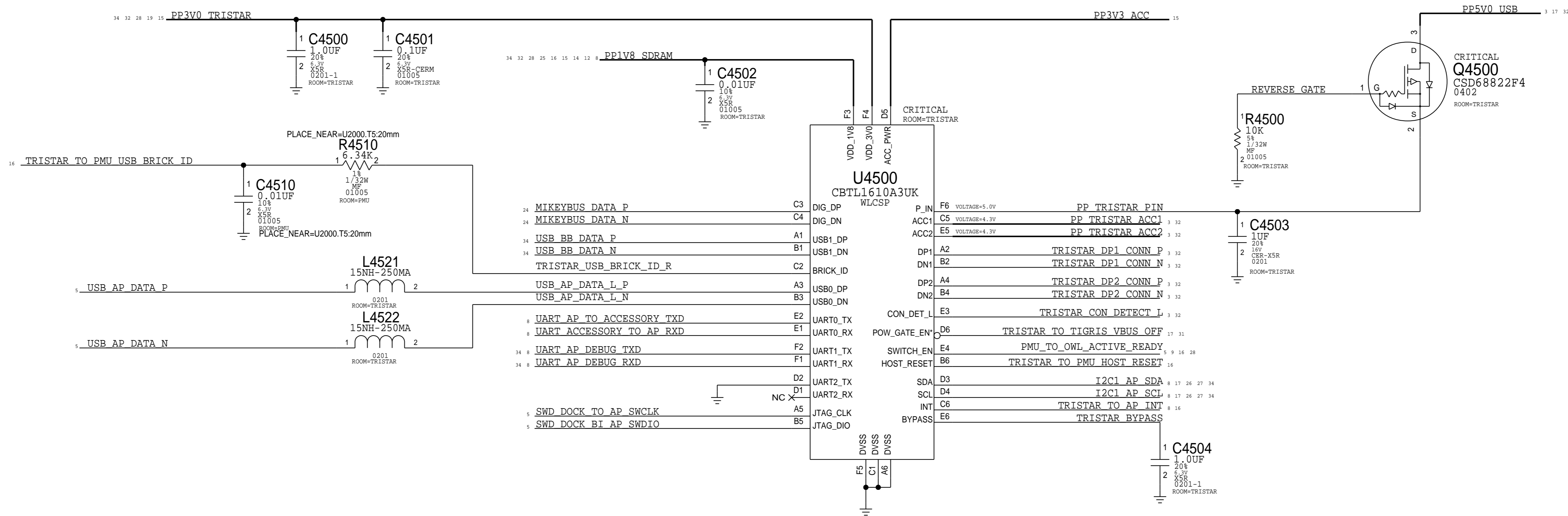
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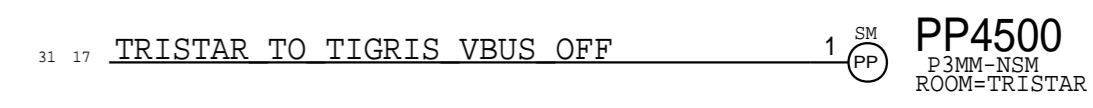
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TRISTAR 2

APN: 343S0695



PROBE POINTS

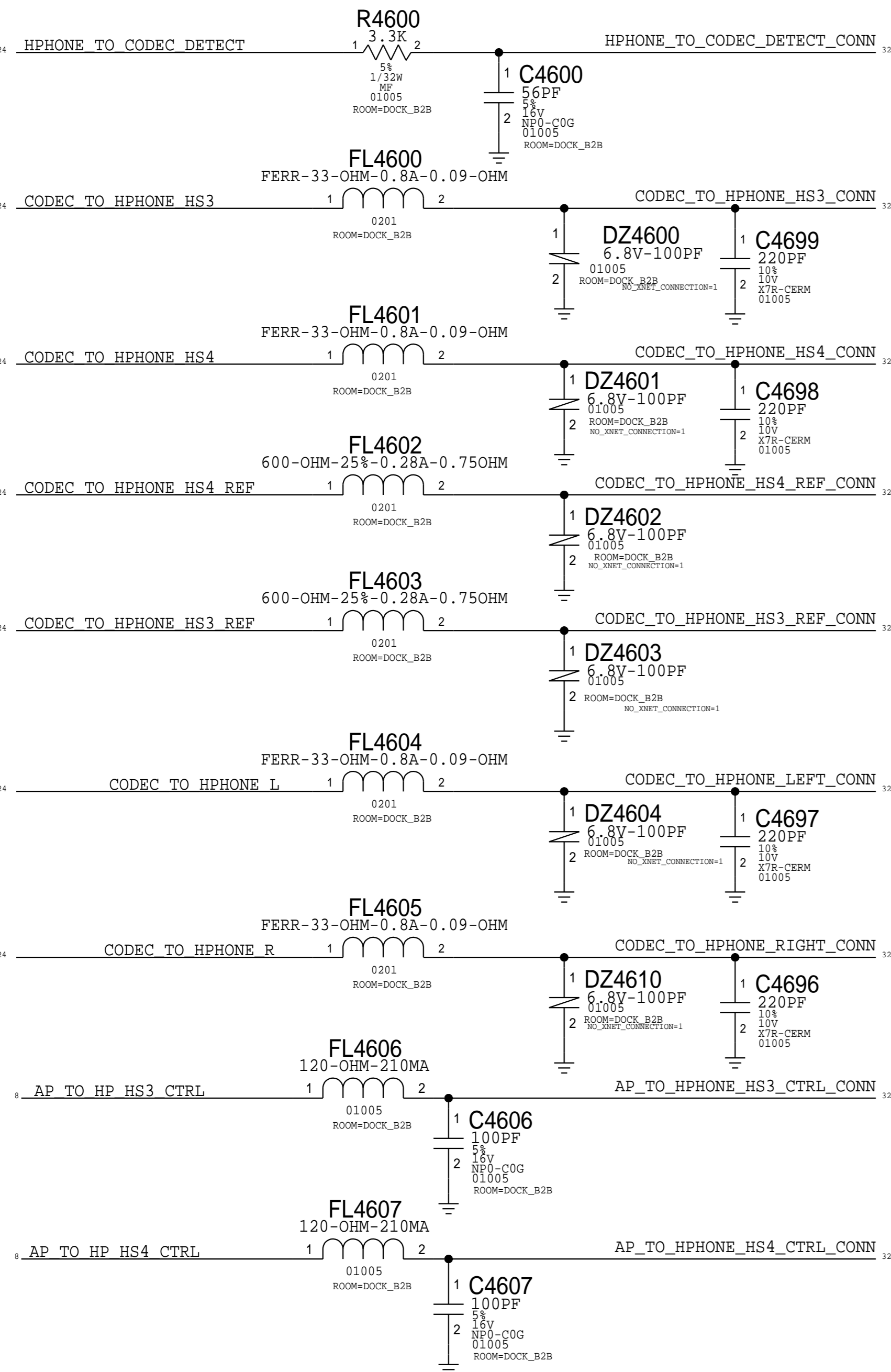


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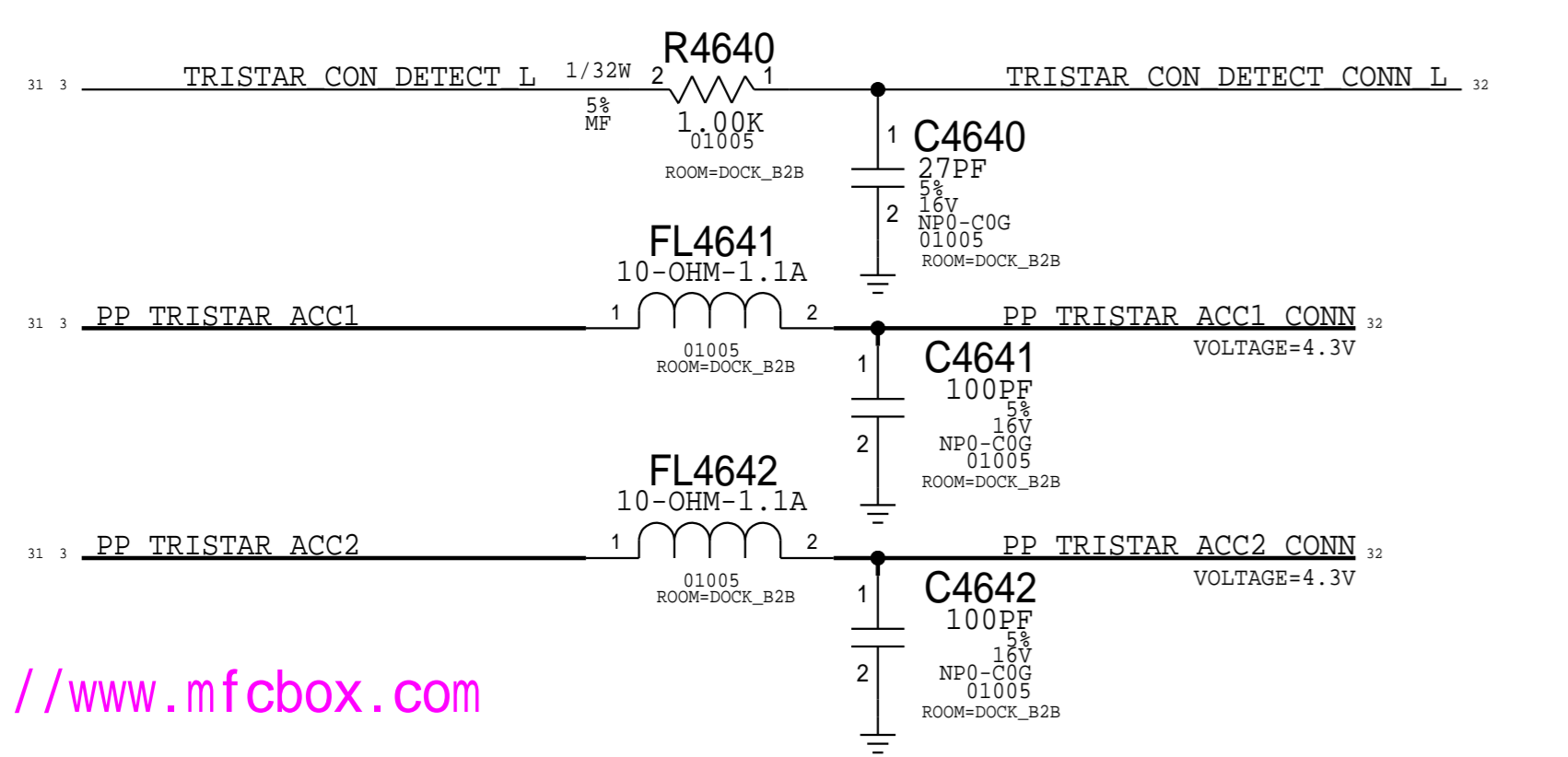
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DOCK FLEX CONNECTOR

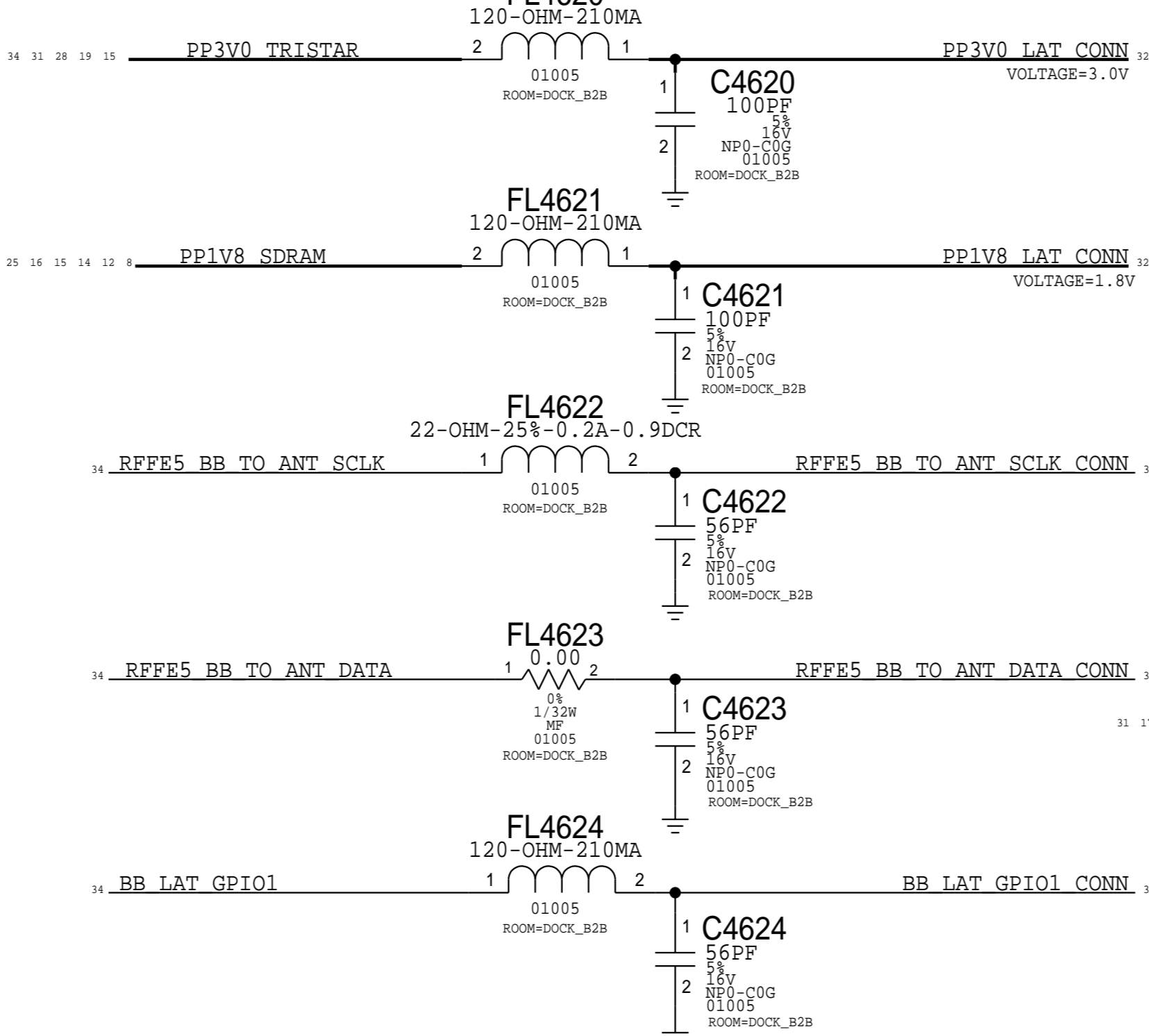
AUDIO JACK



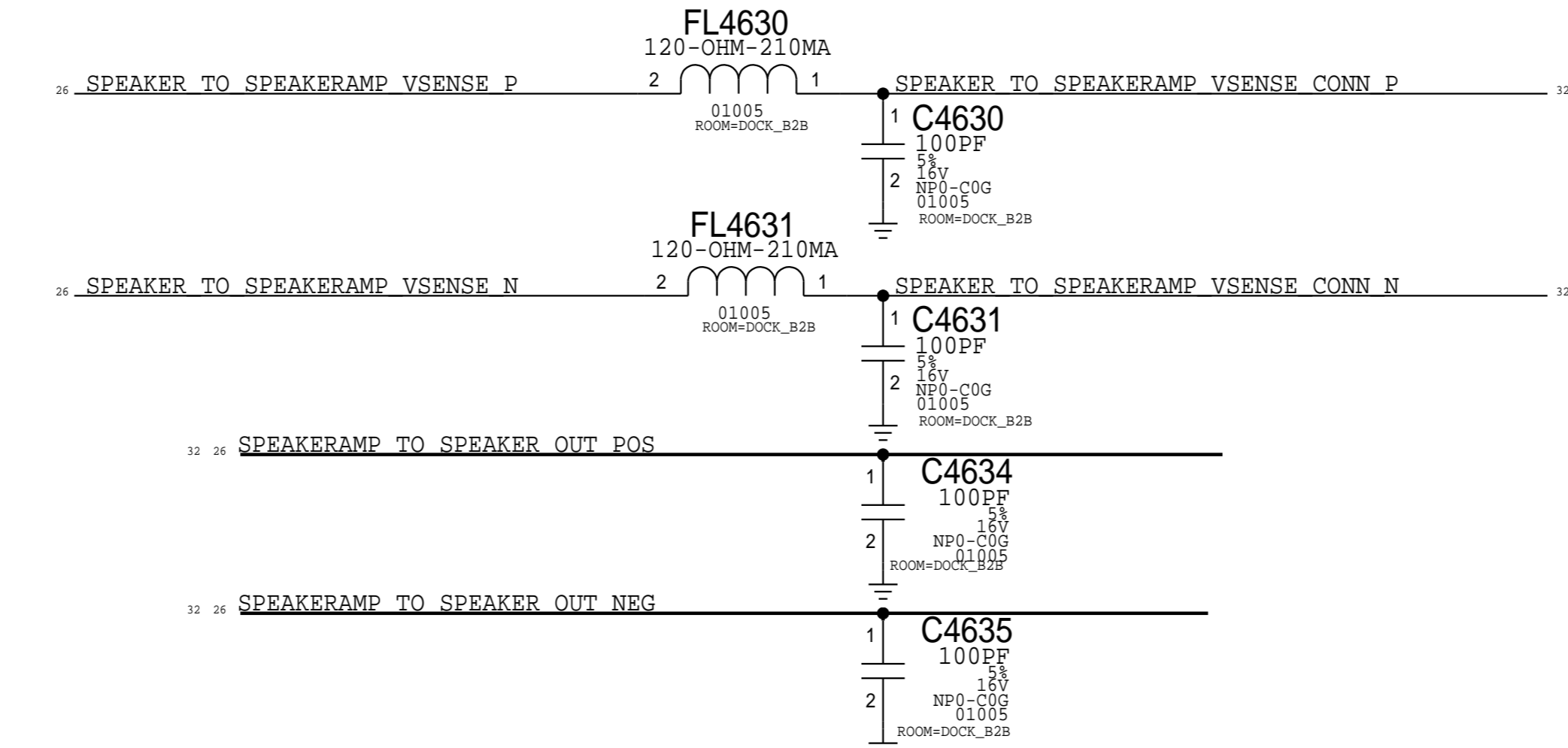
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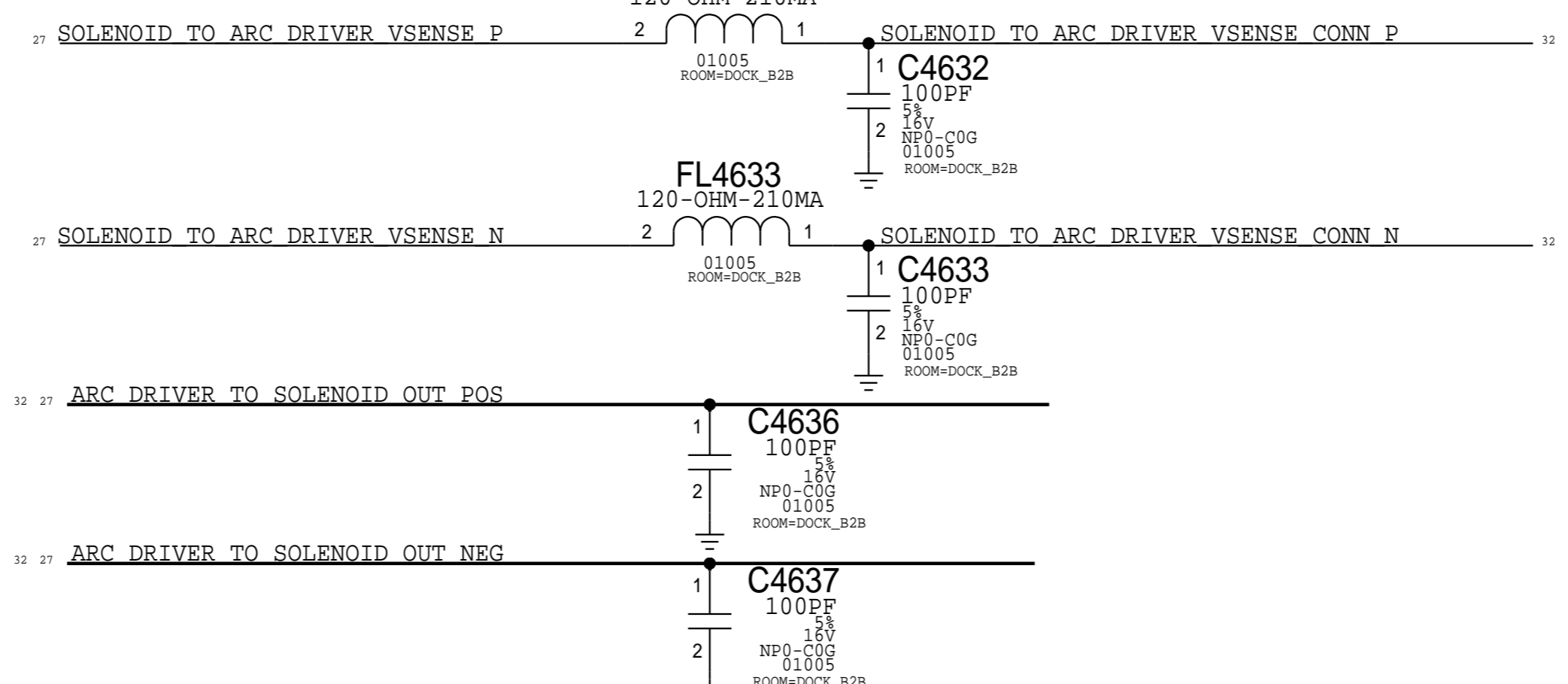
ANTENNA



SPEAKER

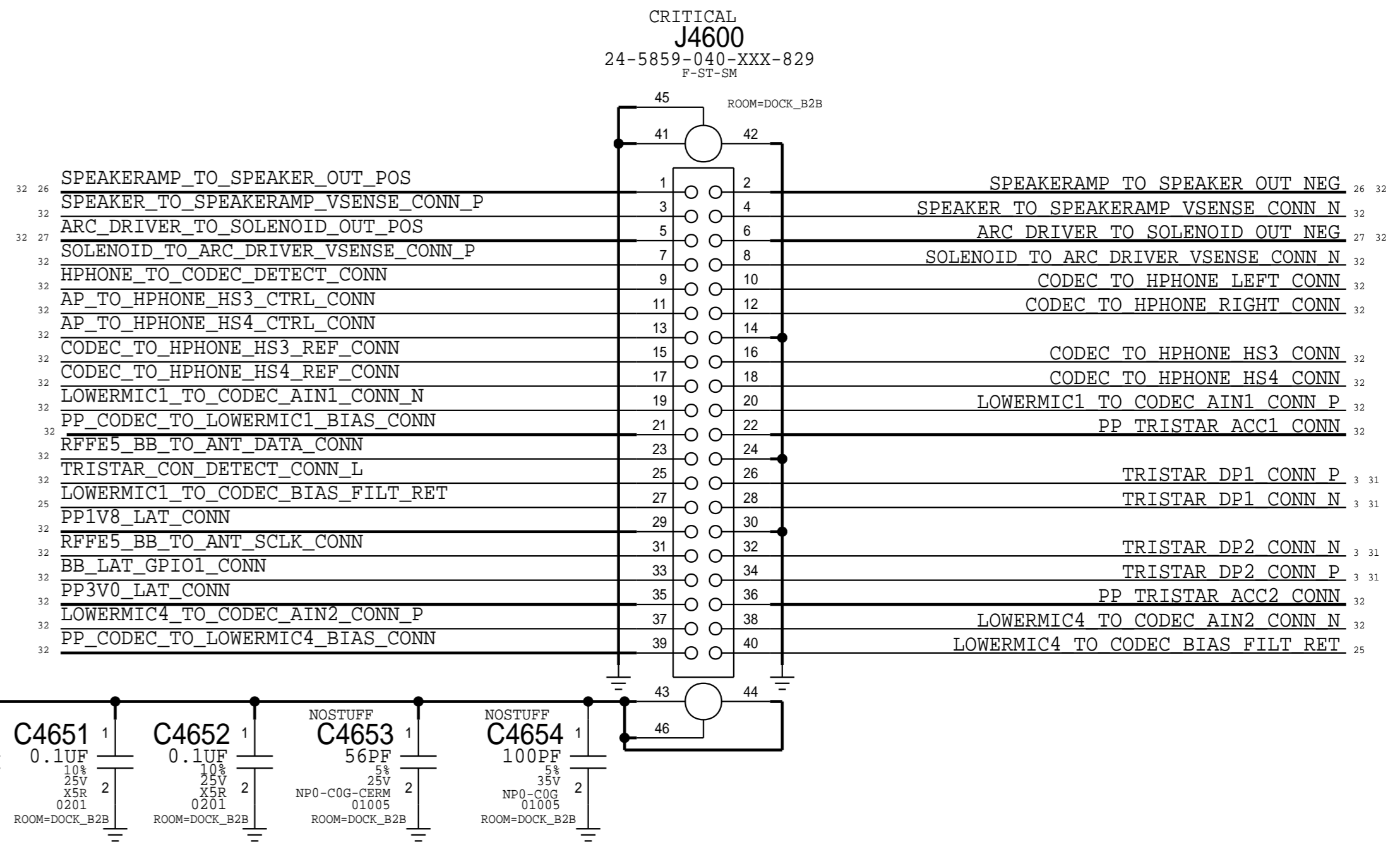


ARC

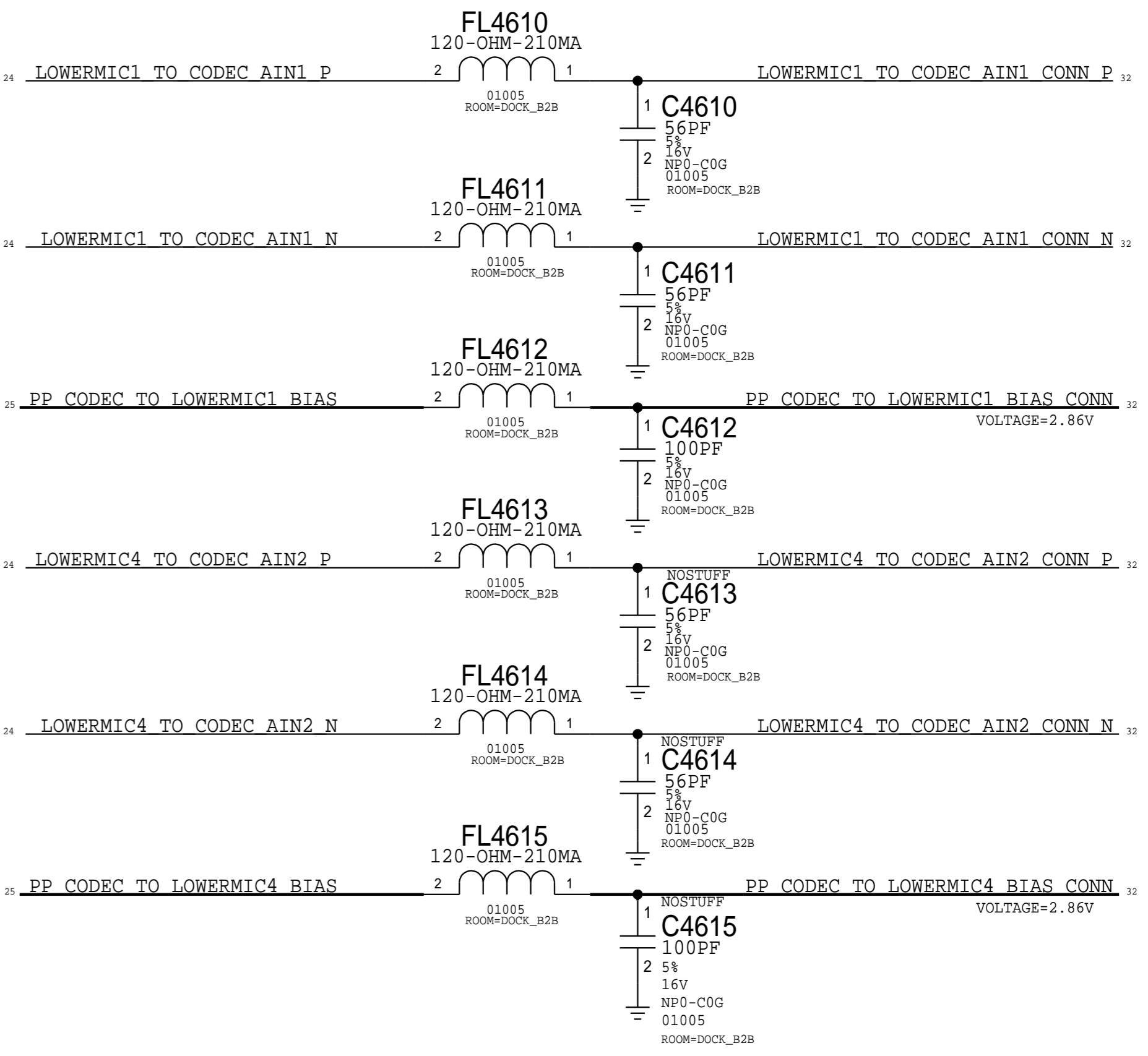


DOCK FLEX CONNECTOR

MLB: 516S00033 (RCPT)
FLEX: 516S00034 (PLUG)



LOWER MIC1/4

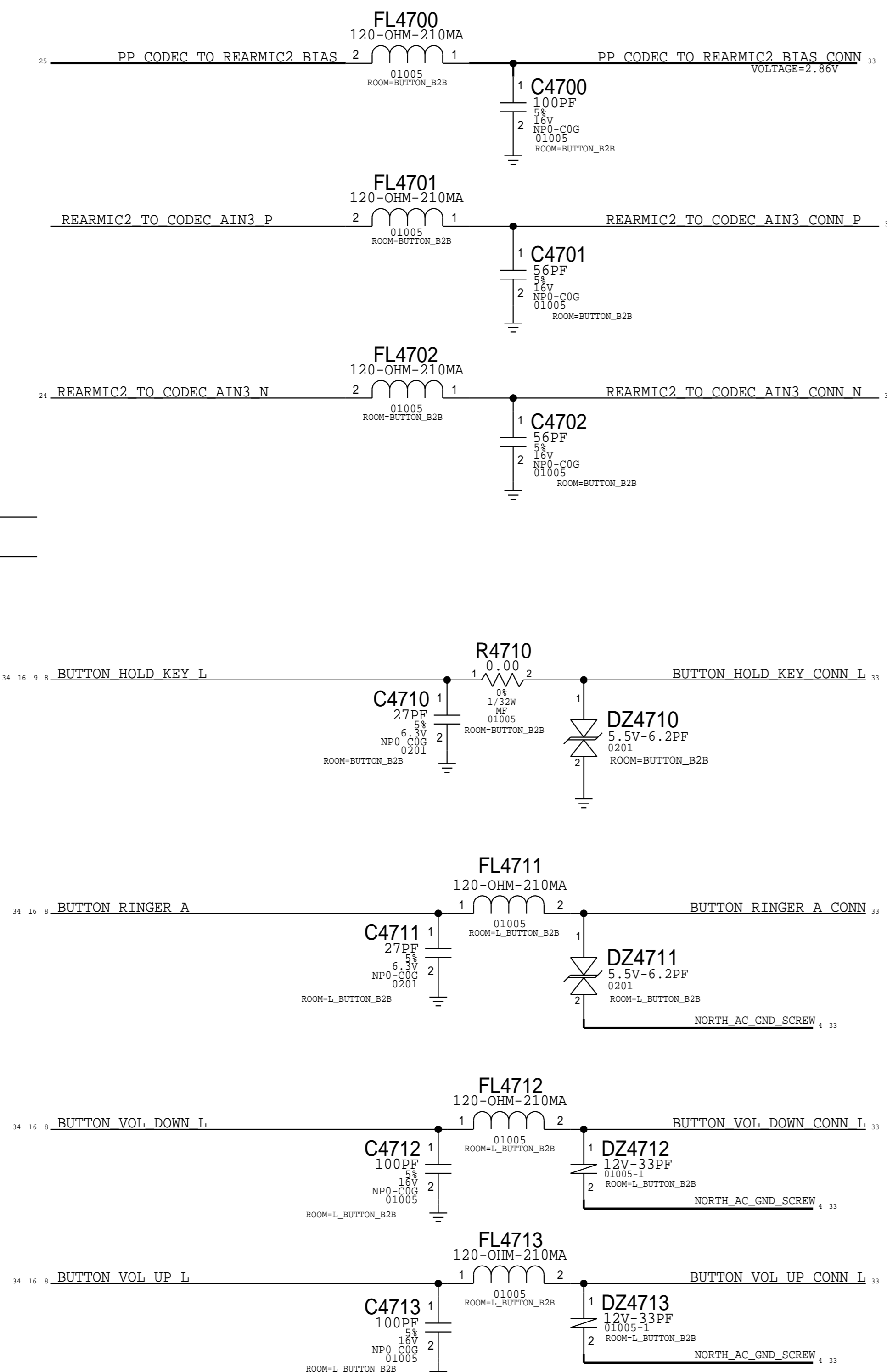


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BRANCH			
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BUTTON FLEX

MIC2
ANC REF MIC

BUTTONS:
HOLD
RINGER
VOL UP/DOWN



RIGHT BUTTON FLEX CONNECTOR

MLB: 516S00047 (RCPT)

FLEX: 516S00046 (PLUG)

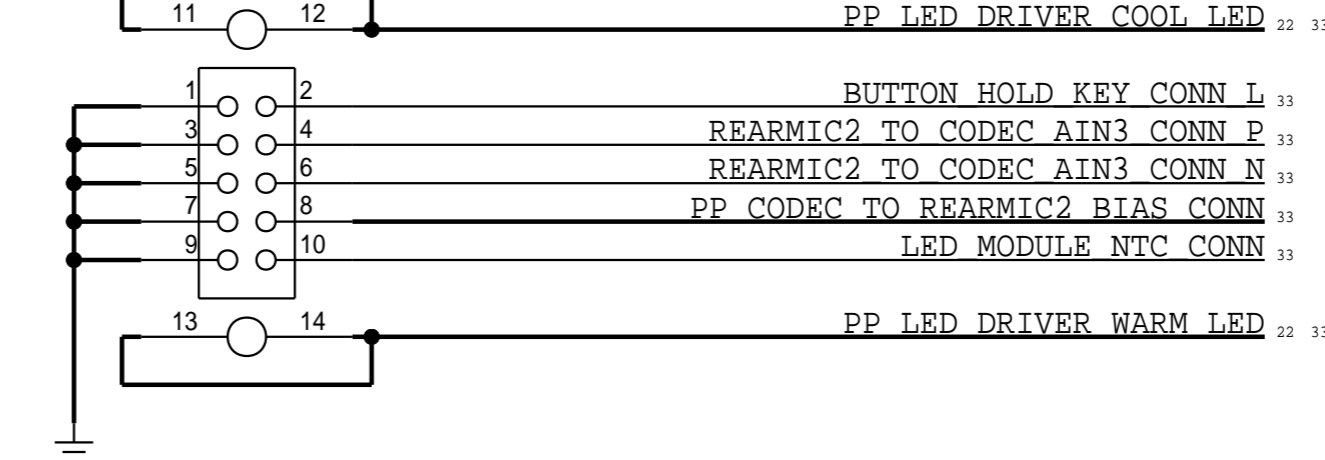
CRITICAL

ROOM=BUTTON_B2B

J4700

BM28P0.6-10DS-0.35V

F-ST-SM



LEFT BUTTON FLEX CONNECTOR

MLB: 516S1317

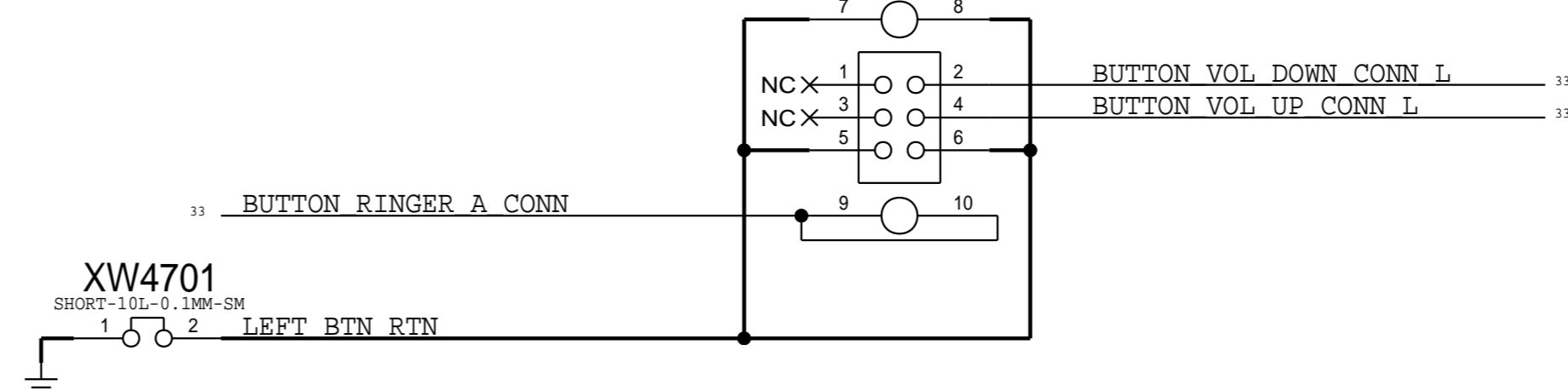
CRITICAL

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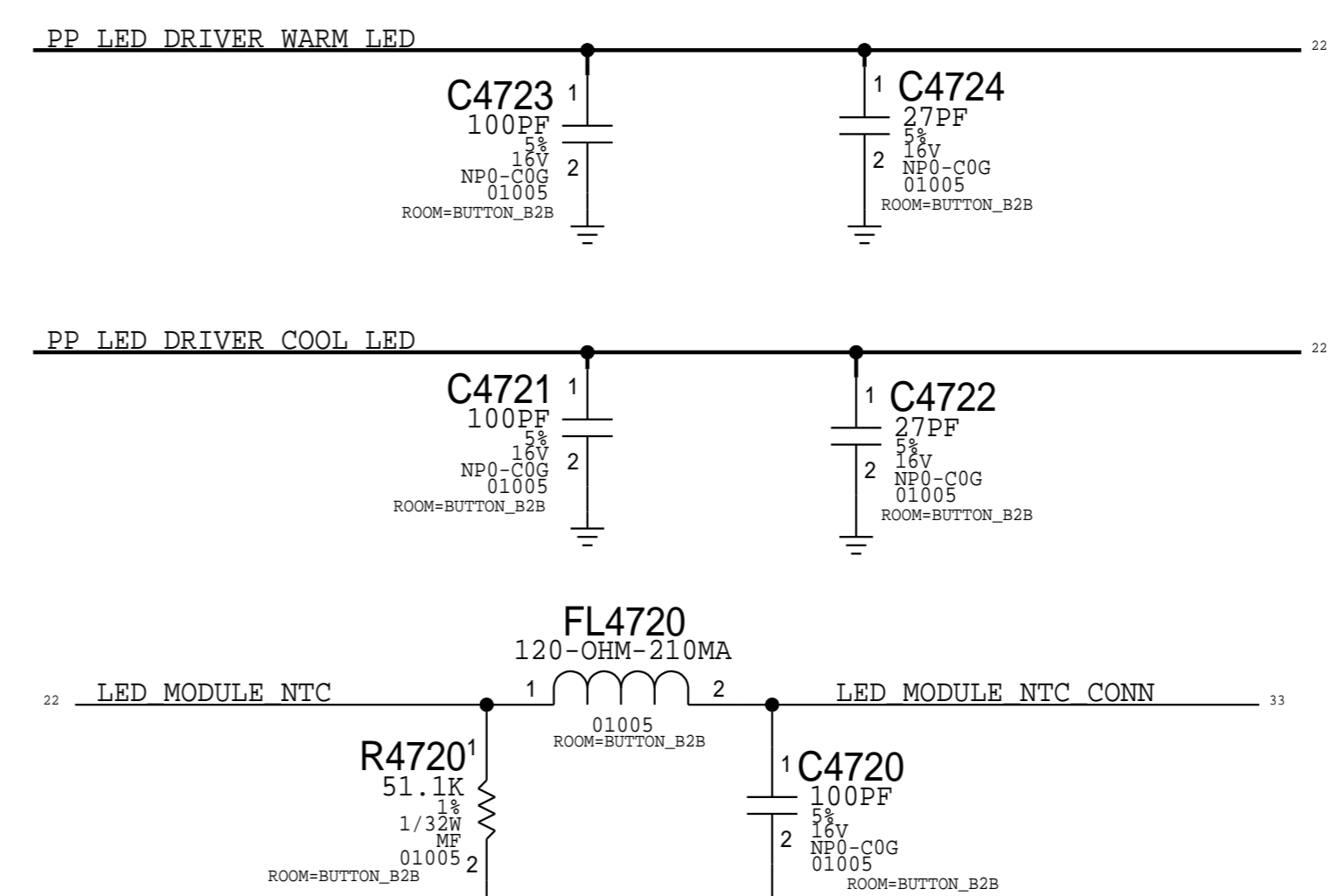
J4701

505066-0610

F-ST-SM



STROBE:
WARM LED
COOL LED
MODULE NTC



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		SHEET	33 OF 60


BASEBAND, WLAN, BT & STOCKHOLM

SUBDESIGN_SUFFIX=RF

RADIO_MLB_MIMO	
SHARED POWER	
PP_VCC_MAIN	PP_VCC_MAIN
PP3V0_TRISTAR	PP3V0_TRISTAR
PP1V8_SDRAM	PP1V8_SDRAM
BASEBAND	
PCIE0_AP_TO_BB_TXD_P	PCIE0_AP_TO_BB_TXD_P
PCIE0_AP_TO_BB_TXD_N	PCIE0_AP_TO_BB_TXD_N
PCIE0_BB_TO_AP_RXD_P	PCIE0_BB_TO_AP_RXD_P
PCIE0_BB_TO_AP_RXD_N	PCIE0_BB_TO_AP_RXD_N
PCIE0_AP_TO_BB_REFCLK_P	PCIE0_AP_TO_BB_REFCLK_P
PCIE0_AP_TO_BB_REFCLK_N	PCIE0_AP_TO_BB_REFCLK_N
PCIE0_AP_TO_BB_RESET_L	PCIE0_AP_TO_BB_RESET_L
PCIE0_BB_BI_AP_CLKREQ_L	PCIE0_BB_BI_AP_CLKREQ_L
BB_TO_PMU_PCIE_HOST_WAKE_L	PCIE0_BB_TO_PMU_HOST_WAKE_L
AP_TO_BB_PCIE_DEV_WAKE	PCIE0_AP_TO_BB_DEV_WAKE
I2S_AP_TO_BB_LRCLK	I2S_AP_TO_BB_WS
I2S_AP_TO_BB_BCLK	I2S_AP_TO_BB_CLK
I2S_AP_TO_BB_DOUT	I2S_AP_TO_BB_TX
I2S_BB_TO_AP_DIN	I2S_BB_TO_AP_TX
AP_TO_BB_RADIO_UP_L	AP_TO_BBPMU_RADIO_ON_L
PMU_TO_BB_PMIC_RESET_L	PMU_TO_BBPMU_RESET_L
AP_TO_BB_RESET_L	AP_TO_BB_RST_L
BB_TO_AP_RESET_DETECT_L	BB_TO_AP_RESET_DET_L
BB_TO_LED_DRIVER_GSM_BURST_IND	BB_TO_AP_GSM_TXBURST_IND
AP_TO_BB_MESA_ON_L	AP_TO_BB_MESA_ON_L
BB_TO_AP_GPS_TIME_MARK	BB_TO_AP_GPS_TIME_MARK
AP_TO_BB_COREDUMP	AP_TO_BB_COREDUMP_TRIG
BB_IPC_GPIO	AP_TO_BB_IPC_GPIO
LCM_TO_OWL_BSYNC	TOUCH_TO_BBPMU_FORCE_PWM
UART_OWL_TO_BB_TXD	UART0_OWL_TO_BB_TX
UART_BB_TO_OWL_RXD	UART0_BB_TO_OWL_TX
USB_BB_DATA_P	USB_BB_P
USB_BB_DATA_N	USB_BB_N
PMU_TO_BB_USB_VBUS_DETECT	USB_BB_VBUS_DETECT
SWD_AP_PERIPHERAL_SWCLK	SWD_CLK_BB_JTAG_TCK
SWD_AP_BI_BB_SWDIO	SWD_IO_BB_JTAG_TMS
RFFE5_BB_TO_ANT_SCLK	75_RFFE5_SCLK_BB
RFFE5_BB_TO_ANT_DATA	75_RFFE5_SDATA_BB
BB_LAT_GPIO1	RFFE_BUFFER_LAT_GPIO1
BB_TO_PMU_AMUX_LDO11_SIM1	BB_TO_PMU_AMUX_LDO11_SIM1
BB_TO_PMU_AMUX_SMP3	BB_TO_PMU_AMUX_SMP3
BB_TO_PMU_AMUX_SMP3	BB_TO_PMU_AMUX_SMP3
BB_TO_PMU_AMUX_SMP4	BB_TO_PMU_AMUX_SMP4
BB_TO_PMU_AMUX_SMP4	BB_TO_PMU_AMUX_SMP4
ANT	
AP_TO_STOCKHOLM_ANT	STOCKHOLM_ANT
AP DEBUG	
PP1V8	PP1V8
DFU_STATUS	DFU_STATUS
FORCE_DFU	FORCE_DFU
PMU_TO_SYSTEM_COLD_RESET_L	PMU_TO_SYSTEM_COLD_RESET_L
I2C0_AP_SCL	I2C0_AP_SCL
I2C0_AP_SDA	I2C0_AP_SDA
I2C1_AP_SCL	I2C1_AP_SCL
I2C1_AP_SDA	I2C1_AP_SDA
BUTTON_HOLD_KEY_L	BUTTON_HOLD_KEY_L
BUTTON_MENU_KEY_L	BUTTON_MENU_KEY_L
BUTTON_RINGER_A	BUTTON_RINGER_A
BUTTON_VOL_DOWN_L	BUTTON_VOL_DOWN_L
BUTTON_VOL_UP_L	BUTTON_VOL_UP_L
NC_PMU_GPIO20	PMU_GPIO20
NC_PMU_GPIO21	PMU_GPIO21
NC_OWL_FUNC2	OWL_FUNC2
NC_AP_RESERVED2	AP_RESERVED2
UART_AP_DEBUG_RXD	AP_RESERVED1
UART_AP_DEBUG_TXD	AP_RESERVED0
NC_PMU_AMUX_AY	PMU_AMUX_AY
NC_PMU_AMUX_BY	PMU_AMUX_BY

WLAN	
PCIE_AP_TO_WLAN_TXD_P	PCIE_AP_TO_WLAN_TXD_P
PCIE_AP_TO_WLAN_TXD_N	PCIE_AP_TO_WLAN_TXD_N
PCIE_WLAN_TO_AP_RXD_P	PCIE_WLAN_TO_AP_RXD_P
PCIE_WLAN_TO_AP_RXD_N	PCIE_WLAN_TO_AP_RXD_N
PCIE_AP_TO_WLAN_REFCLK_P	PCIE_AP_TO_WLAN_REFCLK_P
PCIE_AP_TO_WLAN_REFCLK_N	PCIE_AP_TO_WLAN_REFCLK_N
PCIE_AP_TO_WLAN_RESET_L	PCIE_AP_TO_WLAN_RESET_L
PCIE_AP_TO_WLAN_DEV_WAKE	PCIE_AP_TO_WLAN_DEV_WAKE
PCIE_WLAN_TO_AP_CLKREQ_L	PCIE_WLAN_TO_AP_CLKREQ_L
UART4_AP_TO_WLAN_TXD	UART4_AP_TO_WLAN_TXD
UART4_AP_TO_WLAN_RTS_L	UART4_AP_TO_WLAN_RTS_L
UART4_WLAN_TO_AP_TX	UART4_WLAN_TO_AP_TX
UART4_WLAN_TO_AP_RTS_L	UART4_WLAN_TO_AP_RTS_L
PMU_TO_WLAN_CLK32K	PMU_TO_WLAN_CLK32K
PMU_TO_WLAN_REG_ON	PMU_TO_WLAN_REG_ON
WLAN_TO_PMU_HOST_WAKE	WLAN_TO_PMU_HOST_WAKE
OWL_TO_WLAN_CONTEXT_A	OWL_TO_WLAN_CONTEXT_A
OWL_TO_WLAN_CONTEXT_B	OWL_TO_WLAN_CONTEXT_B
BLUETOOTH	
I2S_AP_TO_BT_LRCLK	I2S_AP_TO_BT_LRCLK
I2S_AP_TO_BT_BCLK	I2S_AP_TO_BT_BCLK
I2S_AP_TO_BT_DOUT	I2S_AP_TO_BT_DOUT
I2S_BT_TO_AP_DIN	I2S_BT_TO_AP_DIN
UART1_AP_TO_BT_TXD	UART1_AP_TO_BT_TXD
UART1_AP_TO_BT_RTS_L	UART1_AP_TO_BT_RTS_L
UART1_BT_TO_AP_TX	UART1_BT_TO_AP_TX
UART1_BT_TO_AP_RTS_L	UART1_BT_TO_AP_RTS_L
PMU_TO_BT_REG_ON	PMU_TO_BT_REG_ON
BT_TO_PMU_HOST_WAKE	BT_TO_PMU_HOST_WAKE
AP_TO_BT_WAKE	AP_TO_BT_WAKE
STOCKHOLM	
UART3_AP_TO_STOCKHOLM_TXD	UART3_AP_TO_STOCKHOLM_TXD
UART3_AP_TO_STOCKHOLM_RTS_L	UART3_AP_TO_STOCKHOLM_RTS_L
UART3_STOCKHOLM_TO_AP_TXD	UART3_STOCKHOLM_TO_AP_TXD
UART3_STOCKHOLM_TO_AP_RTS_L	UART3_STOCKHOLM_TO_AP_RTS_L
PMU_TO_STOCKHOLM_EN	PMU_TO_STOCKHOLM_EN
STOCKHOLM_TO_PMU_HOST_WAKE	STOCKHOLM_TO_PMU_HOST_WAKE
AP_TO_STOCKHOLM_DEV_WAKE	AP_TO_STOCKHOLM_DEV_WAKE
AP_TO_STOCKHOLM_FW_DWLD_REQ	AP_TO_STOCKHOLM_FW_DWLD_REQ

27 26 25 23 22 21 17 14 13 12 11 10 9 8 7 6 5 4 3 2 1	PP_VCC_MAIN
37 32 31 28 19 15	PP3V0_TRISTAR
39 32 31 28 25 16 15 14 12 8	PP1V8_SDRAM
39 6	PCIE AP TO BB TXD P
39 6	PCIE AP TO BB TXD N
39 6	PCIE BB TO AP RXD P
39 6	PCIE BB TO AP RXD N
39 6	PCIE AP TO BB REFCLK P
39 6	PCIE AP TO BB REFCLK N
39 6	PCIE AP TO BB RESET L
39 6	PCIE BB BI AP CLKREQ L
39 16	BB TO PMU PCIE HOST WAKE L
39 6	AP TO BB PCIE DEV WAKE
39 6	I2S AP TO BB LRCLK
39 6	I2S AP TO BB BCLK
39 6	I2S AP TO BB DOUT
39 6	I2S BB TO AP DIN
44 6	AP TO BB RADIO UP L
39 16	PMU TO BB PMIC RESET L
44 6	AP TO BB RESET L
43 6	BB TO AP RESET DETECT L
39 22	BB TO LED DRIVER GSM BURST IND
39 6	AP TO BB MESA ON L
39 6	BB TO AP GPS TIME MARK
39 6	AP TO BB COREDUMP
43 6	BB IPC GPIO
39 9 6	LCM TO OWL BSYNC
39 9	UART OWL TO BB TXD
39 9	UART BB TO OWL RXD
42 31	USB BB DATA P
42 31	USB BB DATA N
44 16	PMU TO BB USB VBUS DETECT
42 13 9	SWD AP PERIPHERAL SWCLK
39 9	SWD AP BI BB SWDIO
36 32	RFFE5 BB TO ANT_SCLK
36 32	RFFE5 BB TO ANT_DATA
43 32	BB LAT_GPIO1
45 16	BB TO PMU AMUX_LDO11_SIM1
45 16	BB TO PMU AMUX_SMP3
45 16	BB TO PMU AMUX_SMP3
45 16	BB TO PMU AMUX_SMP4
21 20 17 14 13 12 9 8 7 6 5 4 3 2 1	PP1V8
8 3 30	DFU_STATUS
39 8 3	FORCE_DFU
16 9 5 3	PMU_TO_SYSTEM_COLD_RESET_L
39 28 16	I2C0_AP_SCL
39 28 16	I2C0_AP_SDA
39 31 27 26 17	I2C1_AP_SCL
39 31 27 26 17	I2C1_AP_SDA
39 33 16 9	BUTTON_HOLD_KEY_L
39 33 16 9	BUTTON_MENU_KEY_L
39 33 16	BUTTON_RINGER_A
39 33 16	BUTTON_VOL_DOWN_L
39 33 16	BUTTON_VOL_UP_L
	NC_PMU_GPIO20
	NC_PMU_GPIO21
	NC_OWL_FUNC2
	NC_AP_RESERVED2
31 8	UART AP DEBUG_RXD
31 8	UART AP DEBUG_TXD
	NC_PMU_AMUX_AY
	NC_PMU_AMUX_BY

PAGE TITLE		BASEBAND:RADIO SYMBOL	
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	REVISION	A.0.0	
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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
A	0004600844	PRODUCTION RELEASED		2015-07-30

N66 RADIO_MLB_MIMO - PVT

JULY 30, 2015

SIM ESD DIODE ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
377S0163	377S00042	ALTERNATE	VR301_RF	ST ESD DIODE

19.2MHZ XTAL ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0565	197S0593	ALTERNATE	Y_XO_RF	XTAL, 19.2MHZ
197S0598	197S0593	ALTERNATE	Y_XO_RF	XTAL, 19.2MHZ

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3	3	FE: ANT CONNECTORS AND UAT TUNER
4	30	DEBUG CONN & TEST POINTS
5	31	CELLULAR BASEBAND: POWER1
6	32	CELLULAR BASEBAND: POWER2
7	33	CELLULAR BASEBAND: CONTROL AND INTERFACES
8	34	CELLULAR BASEBAND: GPIOs
9	35	CELLULAR PMU: CONTROL AND CLOCKS
10	36	CELLULAR PMU: SWITCHERS AND LDOS
11	37	CELLULAR PMU: ET MODULATOR
12	38	CELLULAR TRANSCEIVER: POWER
13	39	CELLULAR TRANSCEIVER: PRX PORTS
14	40	CELLULAR TRANSCEIVER: DRX/GPS PORTS
15	41	CELLULAR TRANSCEIVER: TX PORTS
16	42	CELLULAR FRONT END: LB PAD
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
152S1907	1	3.3NH, INDUCTOR	L4105_RF	ROW
152S2007	1	8.2NH, INDUCTOR	L4401_RF	ROW
131S0426	1	22PF, CAPACITOR	C4405_RF	ROW
152S2042	1	1.8NH, INDUCTOR	C4406_RF	ROW
131S0425	1	0.5PF, CAPACITOR	L4407_RF	ROW
152S2041	1	10.0NH, INDUCTOR	L4403_RF	ROW
131S00071	1	33PF, CAPACITOR	C4407_RF	ROW
152S00143	1	15NH, INDUCTOR	L4404_RF	ROW
131S00071	1	33PF, CAPACITOR	C4406_RF	ROW
117S0108	1	51 OHM, RESISTOR	L4410_RF	ROW
131S0599	1	1.5PF, CAPACITOR	C3921_RF	ROW
152S00052	1	3.4NH, INDUCTOR	L3910_RF	ROW
117S0201	1	0 OHM, RESISTOR	L3911_RF	ROW
152S2039	1	3.8NH, INDUCTOR	L3919_RF	ROW
131S0414	1	5.0PF, CAPACITOR	C4410_RF	ROW

ROW LB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
131S0555	1	1.0PF, CAPACITOR	L4203_RF	ROW
152S00158	1	4.1NH, INDUCTOR	C4205_RF	ROW
131S0425	1	0.5PF, CAPACITOR	L4204_RF	ROW
152S2053	1	4.7NH, INDUCTOR	C4206_RF	ROW
131S0555	1	1.0PF, CAPACITOR	L4205_RF	ROW
152S00027	1	3.7NH, INDUCTOR	C4207_RF	ROW
131S0557	1	0.7PF, CAPACITOR	L4206_RF	ROW
152S2001	1	2.4NH, INDUCTOR	C4208_RF	ROW
131S0351	1	0.4PF, CAPACITOR	L4207_RF	ROW
152S2002	1	2.7NH, INDUCTOR	C4209_RF	ROW
152S2002	1	2.7NH, INDUCTOR	C4211_RF	ROW
152S2056	1	5.6NH, INDUCTOR	C4212_RF	ROW
131S0340	1	2.0PF, CAPACITOR	L4219_RF	ROW
152S2021	1	1.5NH, INDUCTOR	C4213_RF	ROW
118S0724	1	0 OHM, RESISTOR	R4201_RF	ROW
131S0551	1	1.2PF, CAPACITOR	L4601_RF	ROW
152S1342	1	15NH, INDUCTOR	L3902_RF	ROW
131S0630	1	27PF, CAPACITOR	C3902_RF	ROW

RF2 HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S1990	1	3.0NH, INDUCTOR	L4105_RF	RF2
131S0377	1	1.2PF, CAPACITOR	C4108_RF	RF2
131S0631	1	0.3PF, CAPACITOR	L4401_RF	RF2
152S2042	1	1.8NH, INDUCTOR	C4405_RF	RF2
152S2042	1	1.8NH, INDUCTOR	C4406_RF	RF2
131S0631	1	0.3PF, CAPACITOR	L4407_RF	RF2
131S00001	1	0.1PF, CAPACITOR	L4403_RF	RF2
152S2051	1	1.3NH, INDUCTOR	C4407_RF	RF2
152S2051	1	1.3NH, INDUCTOR	C4408_RF	RF2
131S0805	1	100PF, CAPACITOR	C4409_RF	RF2
131S0431	1	0.2PF, CAPACITOR	L4410_RF	RF2
131S0381	1	1.6PF, CAPACITOR	C3921_RF	RF2
152S00027	1	3.7NH, INDUCTOR	L3910_RF	RF2
117S0201	1	0 OHM, RESISTOR	L3911_RF	RF2
152S2045	1	3.0NH, INDUCTOR	L3919_RF	RF2
152S00052	1	3.4NH, INDUCTOR	L3912_RF	RF2
131S0599	1	1.5PF, CAPACITOR	C3922_RF	RF2
131S0630	1	27PF, CAPACITOR	C3911_RF	RF2
131S0414	1	5.0PF, CAPACITOR	C4410_RF	RF2

RF2 LB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
131S0555	TRUE	1.0PF, CAPACITOR	L4203_RF	RF2
152S00158	TRUE	4.1NH, INDUCTOR	C4205_RF	RF2
131S0425	TRUE	0.5PF, CAPACITOR	L4204_RF	RF2
152S2053	TRUE	4.7NH, INDUCTOR	C4206_RF	RF2
131S0555	TRUE	1.0PF, CAPACITOR	L4205_RF	RF2
152S00027	TRUE	3.7NH, INDUCTOR	C4207_RF	RF2
131S0557	TRUE	0.7PF, CAPACITOR	L4206_RF	RF2
152S2001	TRUE	2.4NH, INDUCTOR	C4208_RF	RF2
131S0351	TRUE	0.4PF, CAPACITOR	L4207_RF	RF2
152S2002	TRUE	2.7NH, INDUCTOR	C4209_RF	RF2
152S2002	TRUE	2.7NH, INDUCTOR	C4211_RF	RF2
152S2056	TRUE	5.6NH, INDUCTOR	C4212_RF	RF2
131S0340	TRUE	2.0PF, CAPACITOR	L4219_RF	RF2
152S2021	TRUE	1.5NH, INDUCTOR	C4213_RF	RF2
118S0724	TRUE	0 OHM, RESISTOR	R4201_RF	RF2
131S0551	TRUE	1.2PF, CAPACITOR	L4601_RF	RF2
152S1342	TRUE	15NH, INDUCTOR	L3902_RF	RF2
131S0630	1	27PF, CAPACITOR	C3902_RF	RF2

HB PAD

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S00376	1	IC, PWR AMP, HB_PAD, TQS	UHBPA_RF	ROW
353S4494	1	IC, PWR AMP, HB_PAD, AVAGO	UHBPA_RF	RF2
353S00478	1	IC, PWR AMP, HB_PAD, PT	UHBPA_RF	DARWIN

LB PAD


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S00461	1	IC, PWR AMP, LB_PAD, SKWS	ULBPA_RF	ROW
353S00461	1	IC, PWR AMP, LB_PAD, SKWS	ULBPA_RF	RF2
353S00541	1	IC, PWR AMP, LB_PAD, PT	ULBPA_RF	DARWIN

MB PAD

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S4495	1	IC, PWR AMP, MB_PAD	UMBPA_RF	ROW
353S4495	1	IC, PWR AMP, MB_PAD	UMBPA_RF	RF2
353S00477	1	IC, PWR AMP, MB_PAD, PT	UMBPA_RF	DARWIN

HW_REV1_ID RESISTOR

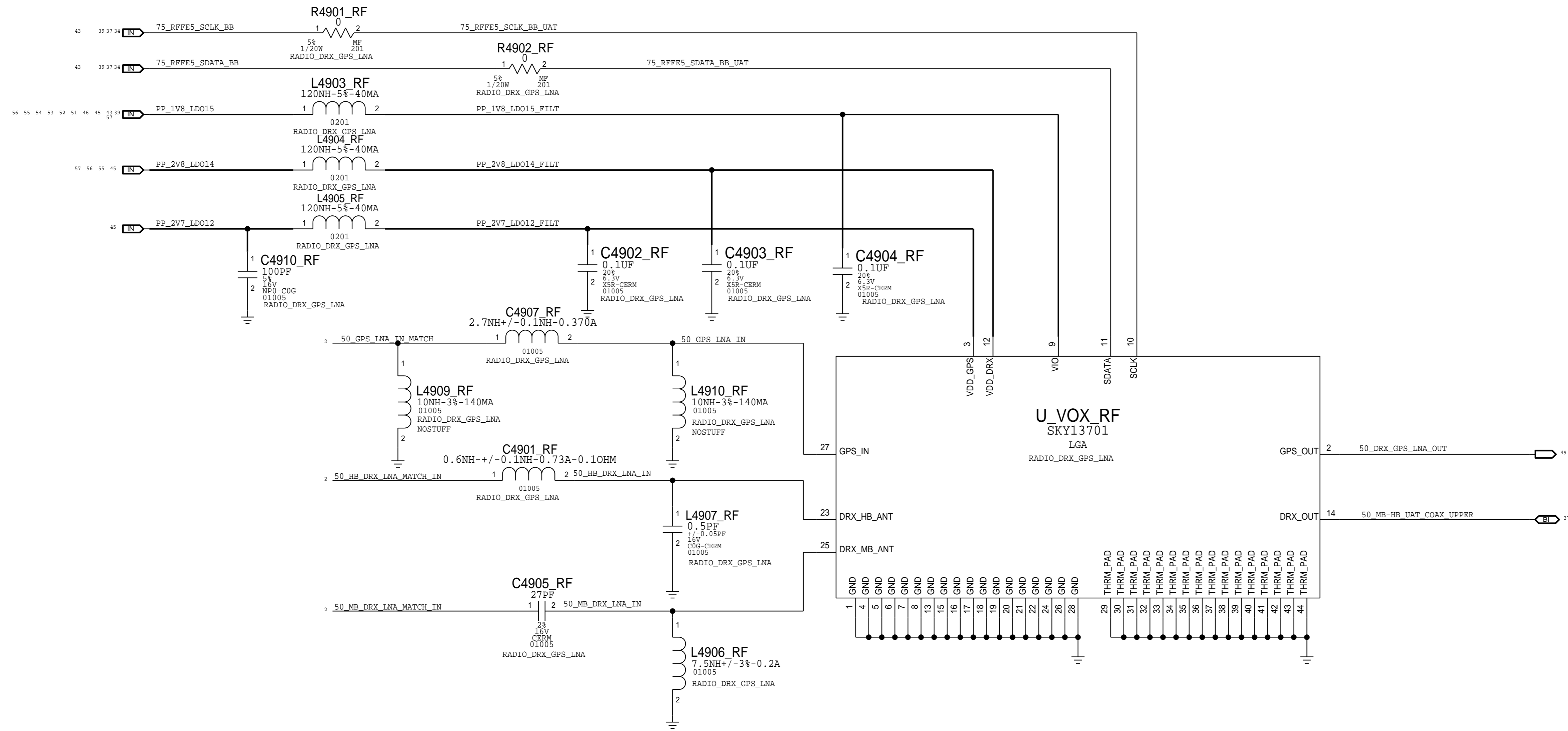
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
118S0646	1	51.1 KOHM, RESISTOR	R3503_RF	DARWIN

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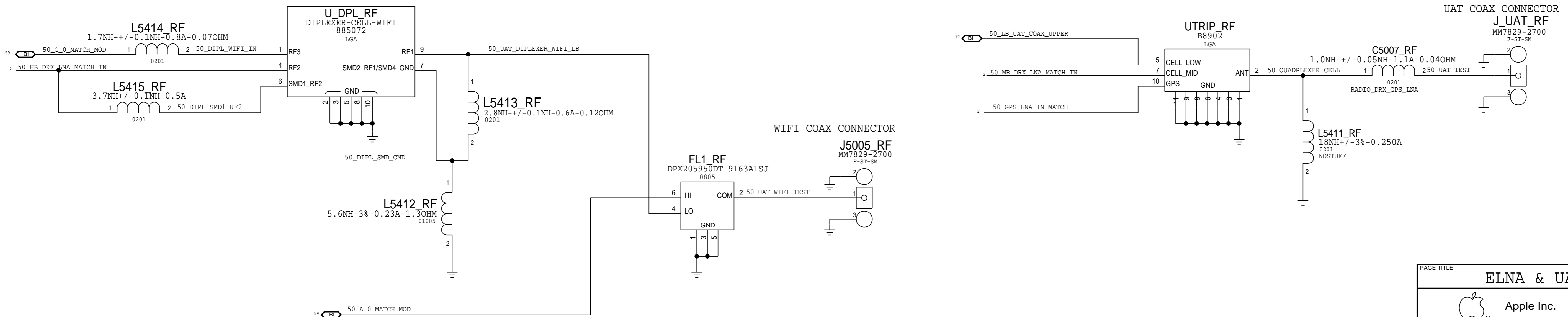
<http://www.mfcbbox.com>

N66-SPECIFIC RADIO PAGE 2

DIVERSITY LNA



UAT ANT FEED

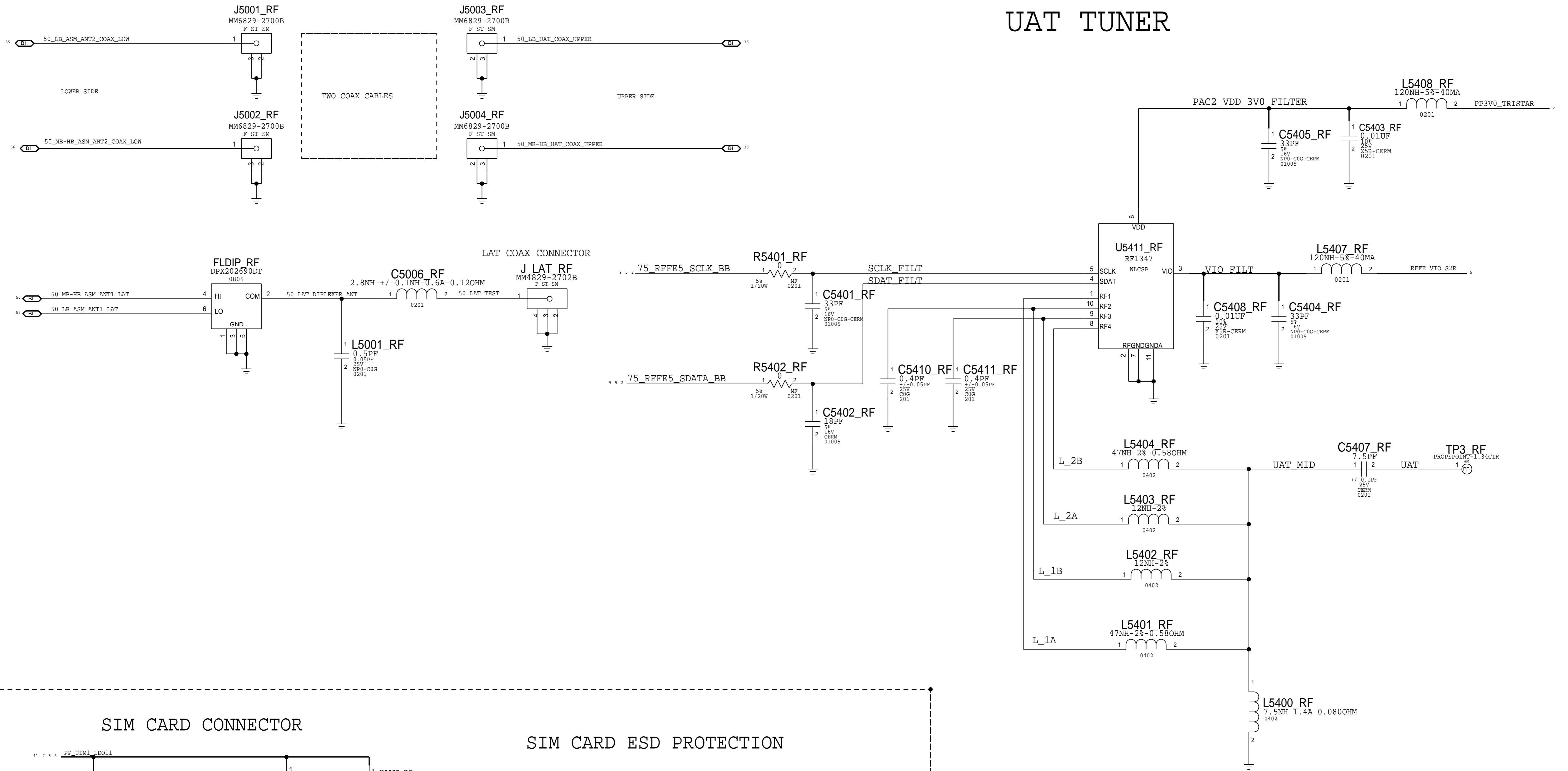


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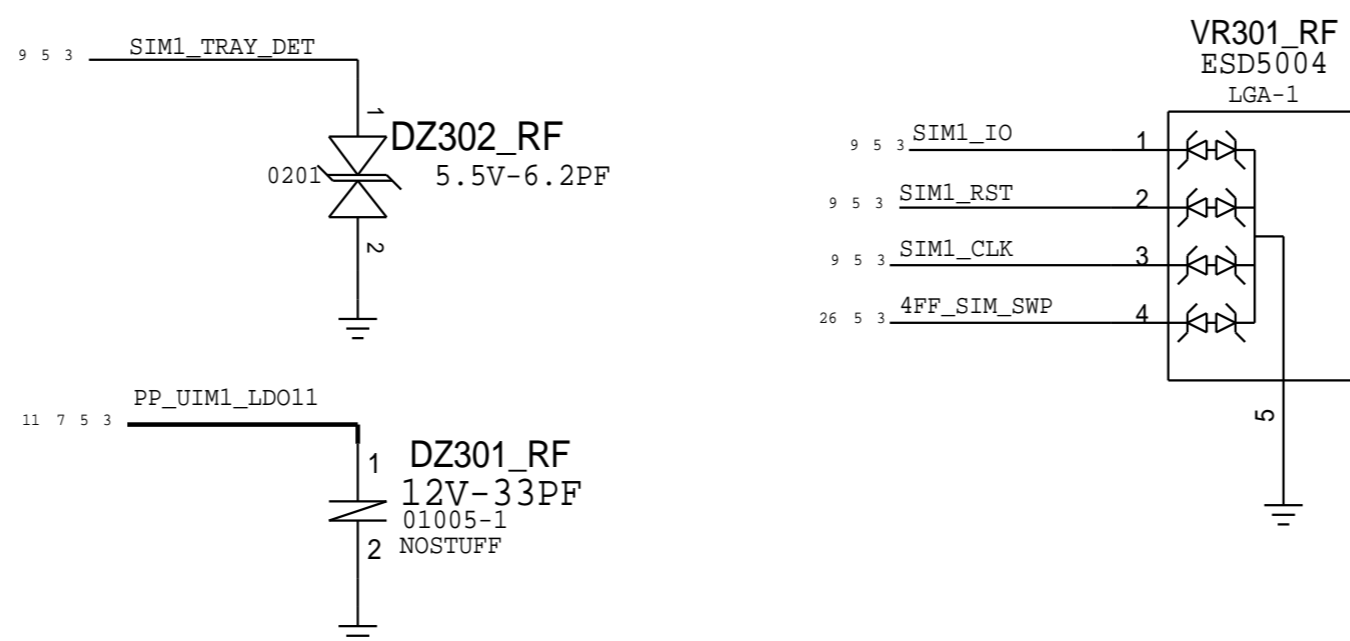
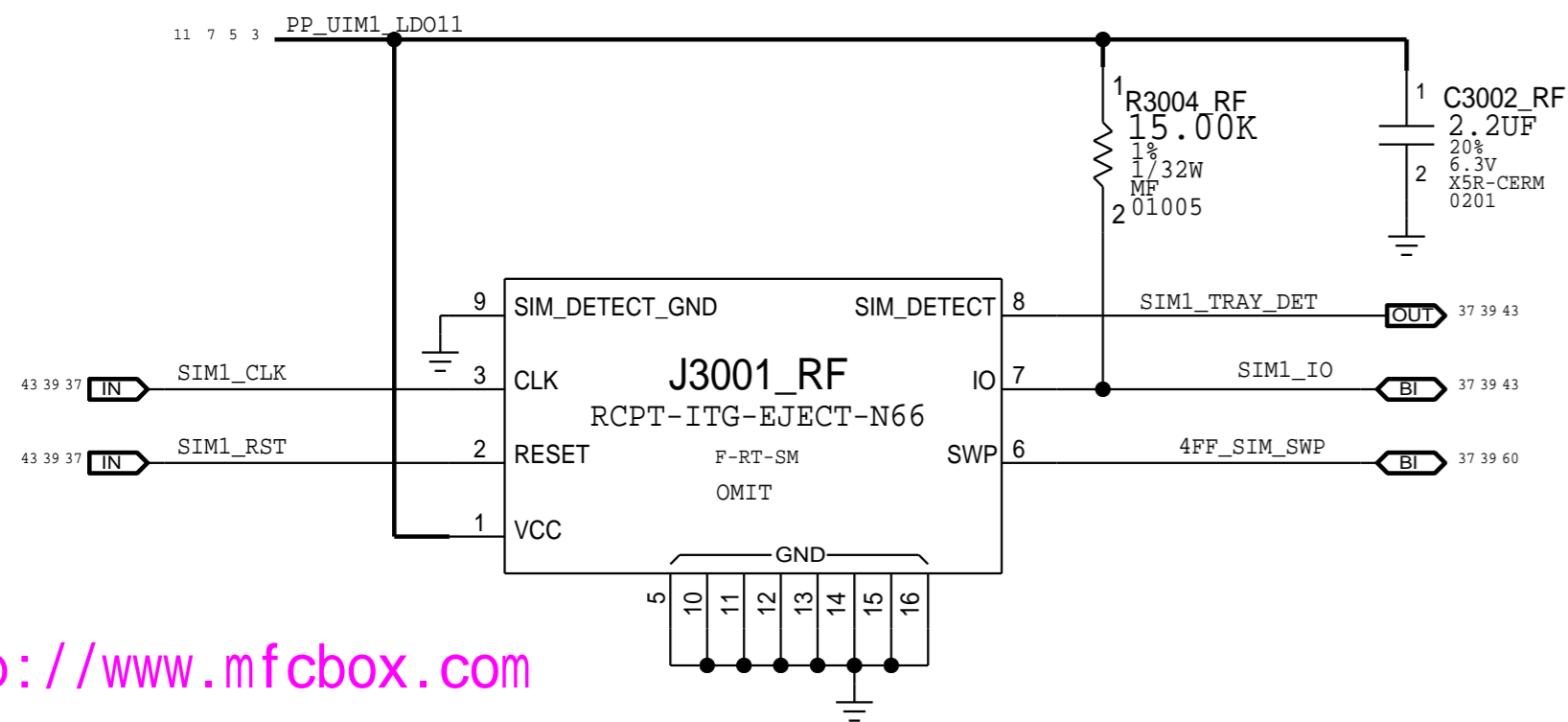
ANTENNA FEEDS AND CONNECTORS

UAT TUNER



SIM CARD CONNECTOR

SIM CARD ESD PROTECTION



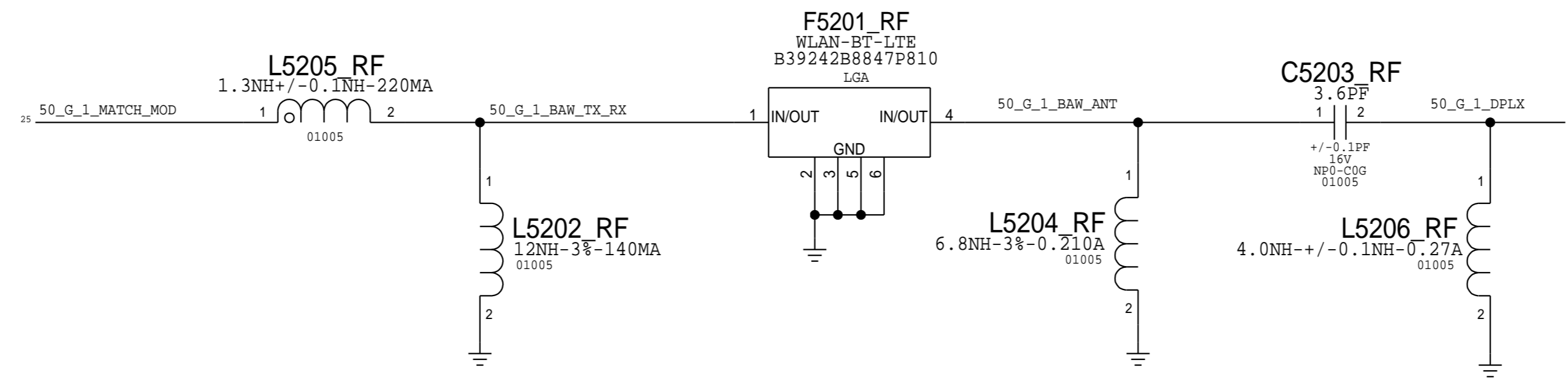
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N66-SPECIFIC RADIO PAGE 4

WLAN LAT 2.4GHZ BAW BPF



DARWIN LB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
131S0555	1	1.0PF, CAPACITOR	L4203_RF	DARWIN
152S00158	1	4.1NH, INDUCTOR	C4205_RF	DARWIN
131S0425	1	0.5PF, CAPACITOR	L4204_RF	DARWIN
152S2053	1	4.7NH, INDUCTOR	C4206_RF	DARWIN
131S0555	1	1.0PF, CAPACITOR	L4205_RF	DARWIN
152S00027	1	3.7NH, INDUCTOR	C4207_RF	DARWIN
131S0557	1	0.7PF, CAPACITOR	L4206_RF	DARWIN
152S2001	1	2.4NH, INDUCTOR	C4208_RF	DARWIN
131S0351	1	0.4PF, CAPACITOR	L4207_RF	DARWIN
152S2002	1	2.7NH, INDUCTOR	C4209_RF	DARWIN
152S2002	1	2.7NH, INDUCTOR	C4211_RF	DARWIN
152S2056	1	5.6NH, INDUCTOR	C4212_RF	DARWIN
131S0340	1	2.0PF, CAPACITOR	L4219_RF	DARWIN
152S2021	1	1.5NH, INDUCTOR	C4213_RF	DARWIN
118S0724	1	0 OHM, RESISTOR	R4201_RF	DARWIN
131S0551	1	1.2PF, CAPACITOR	L4601_RF	DARWIN
152S1342	1	15NH, INDUCTOR	L3902_RF	DARWIN
131S0630	1	27PF, CAPACITOR	C3902_RF	DARWIN

DARWIN HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S1907	1	3.3NH, INDUCTOR	L4105_RF	DARWIN
152S2007	1	8.2NH, INDUCTOR	L4401_RF	DARWIN
131S0426	1	22PF, CAPACITOR	C4405_RF	DARWIN
152S2042	1	1.8NH, INDUCTOR	C4406_RF	DARWIN
131S0425	1	0.5PF, CAPACITOR	L4407_RF	DARWIN
152S2041	1	10.0NH, INDUCTOR	L4403_RF	DARWIN
131S00071	1	33PF, CAPACITOR	C4407_RF	DARWIN
152S00143	1	15NH, INDUCTOR	L4404_RF	DARWIN
131S00071	1	33PF, CAPACITOR	C4408_RF	DARWIN
117S0108	1	51 OHM, RESISTOR	L4410_RF	DARWIN
131S0599	1	1.5PF, CAPACITOR	C3921_RF	DARWIN
152S00052	1	3.4NH, INDUCTOR	L3910_RF	DARWIN
117S0201	1	0 OHM, RESISTOR	L3911_RF	DARWIN
152S2039	1	3.8NH, INDUCTOR	L3919_RF	DARWIN
131S0414	1	5.0PF, CAPACITOR	C4410_RF	DARWIN

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PAGE TITLE		WLAN LAT 2.4GHZ BAW BPF	
Apple Inc.	DRAWING NUMBER	051-00094	SIZE D
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		SHEET	38 OF 60

AP TO BB/WLAN/BT/SH CONNECTIONS

MLB PROBE POINTS

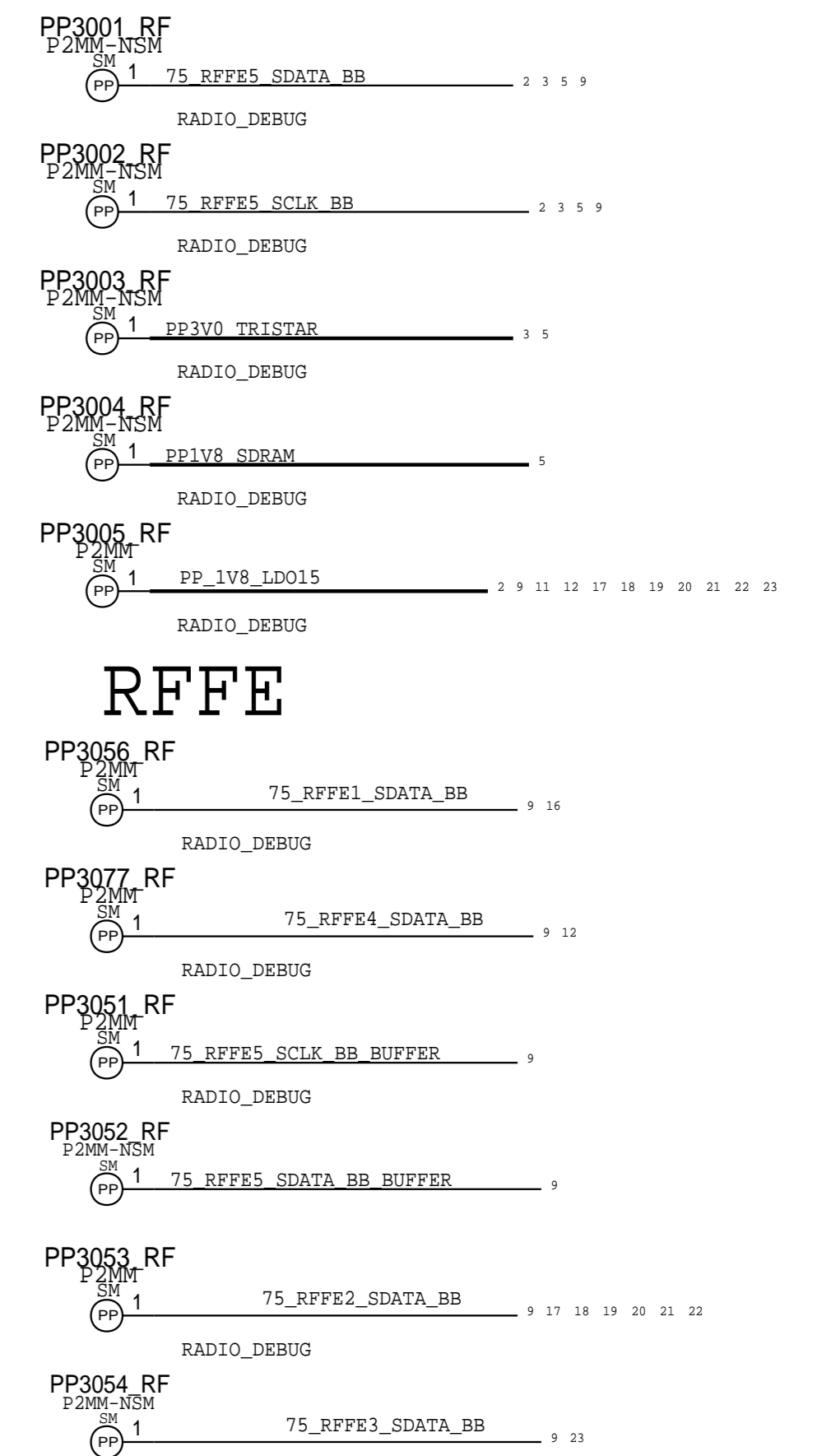
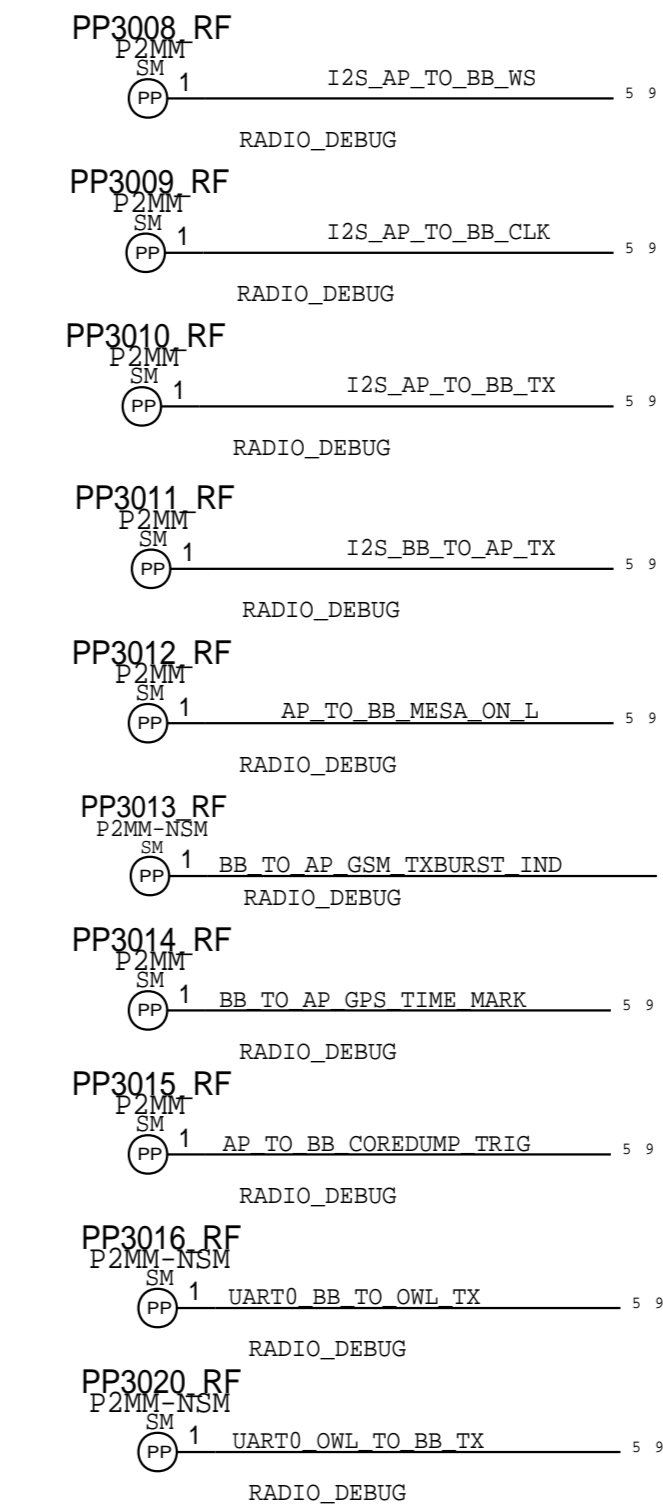
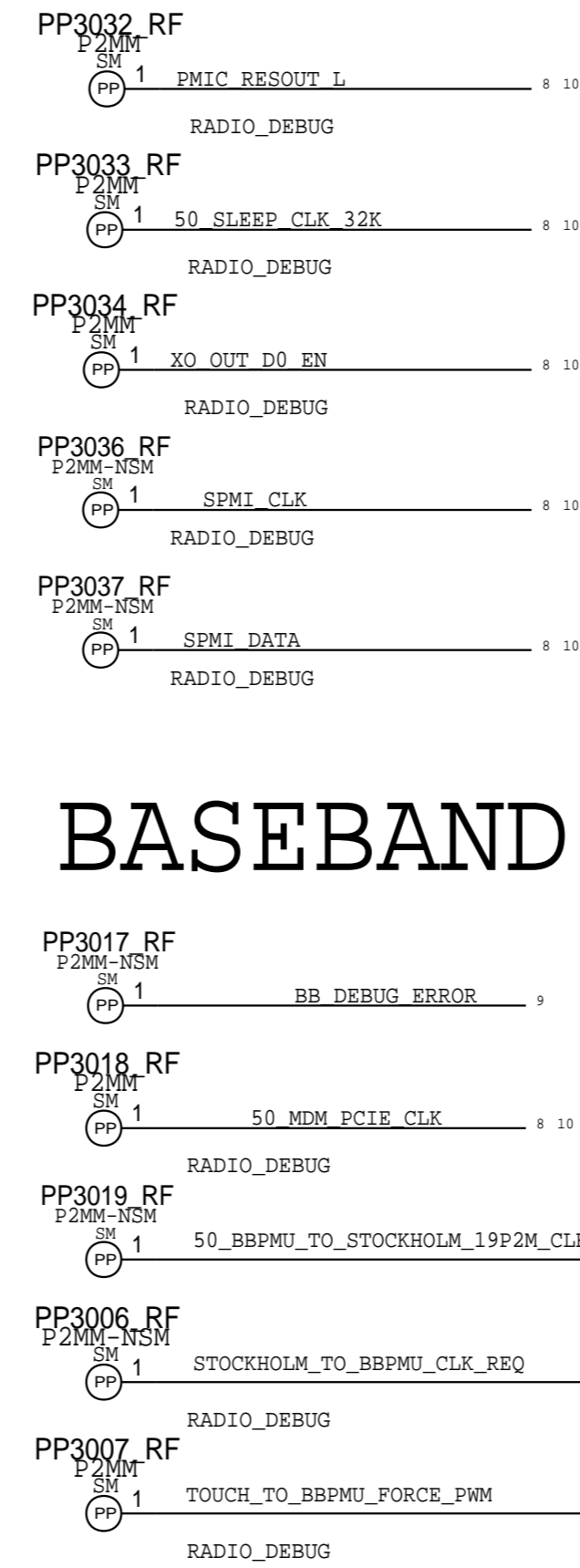
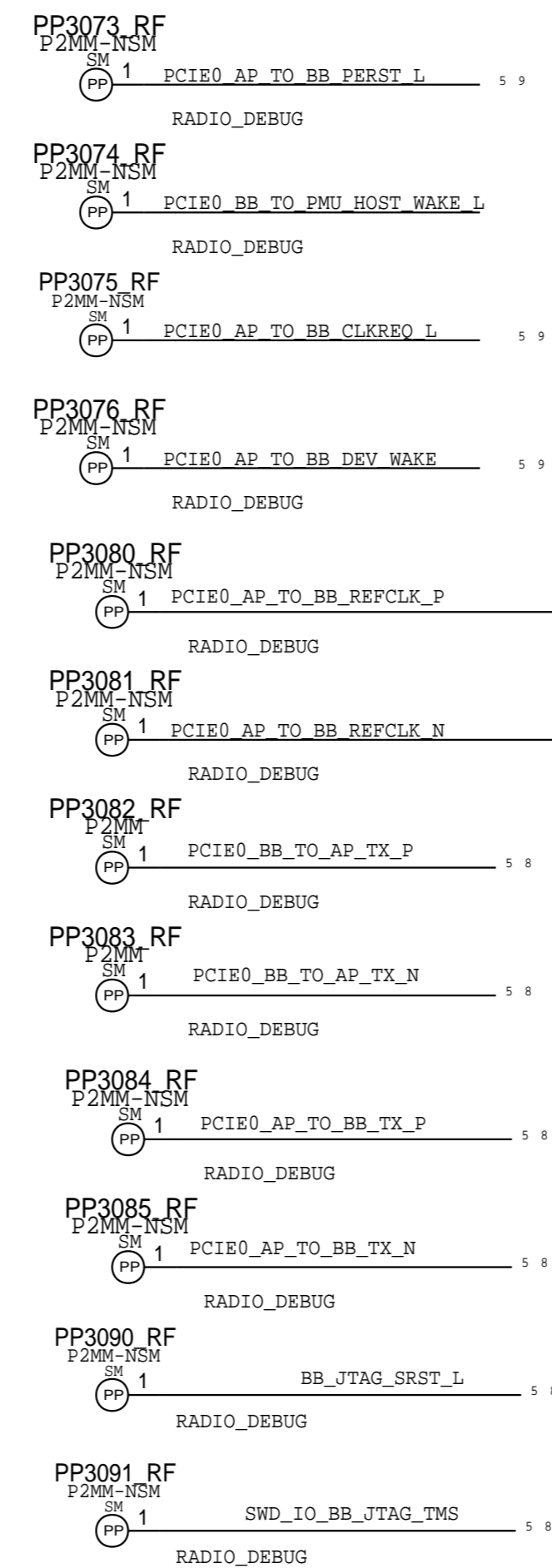
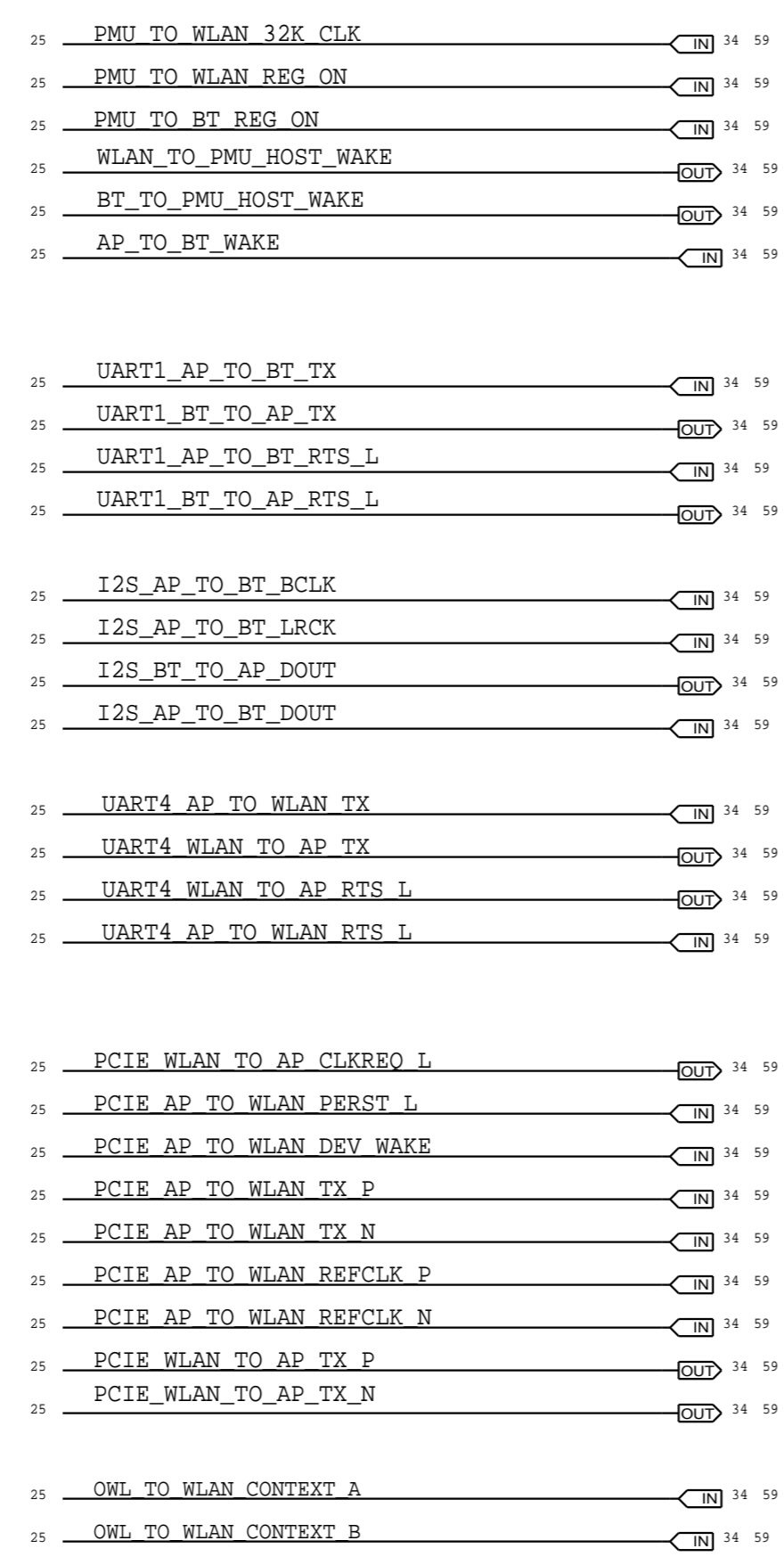
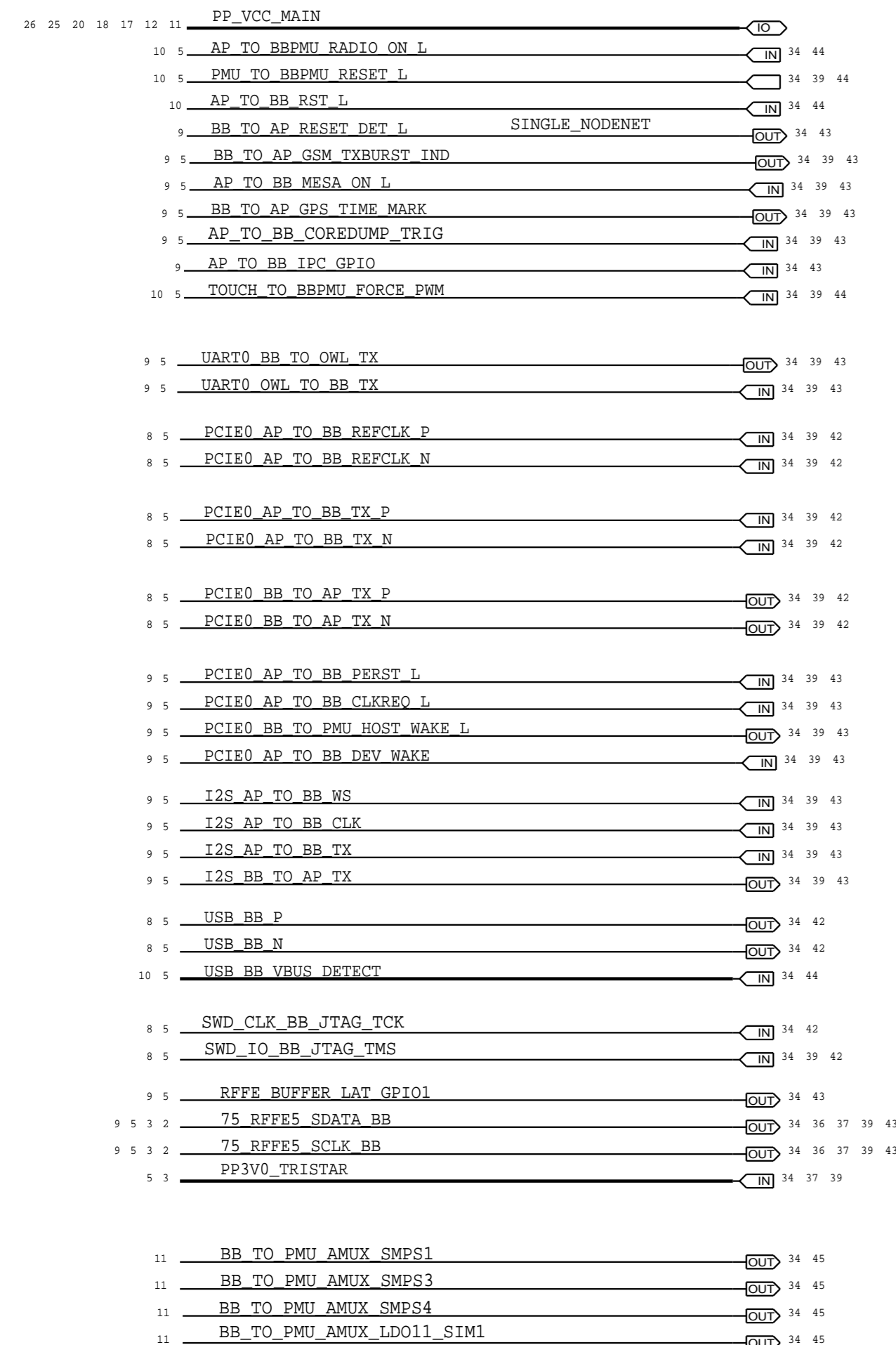
BASEBAND

WLAN/BT

PCIE

PMU

ANT TUNER



BASEBAND

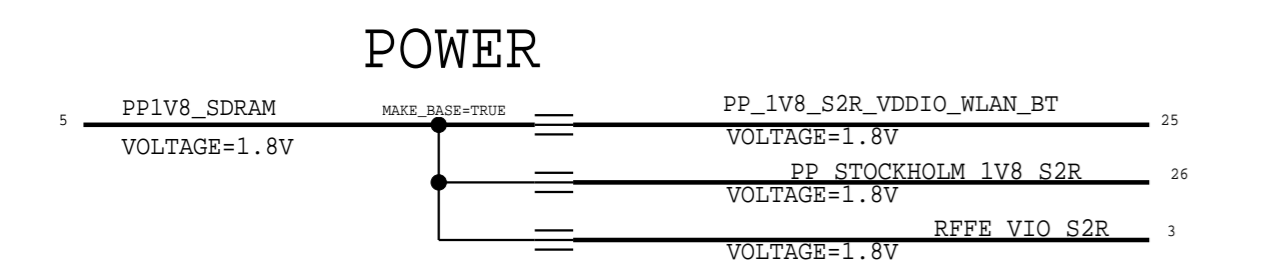
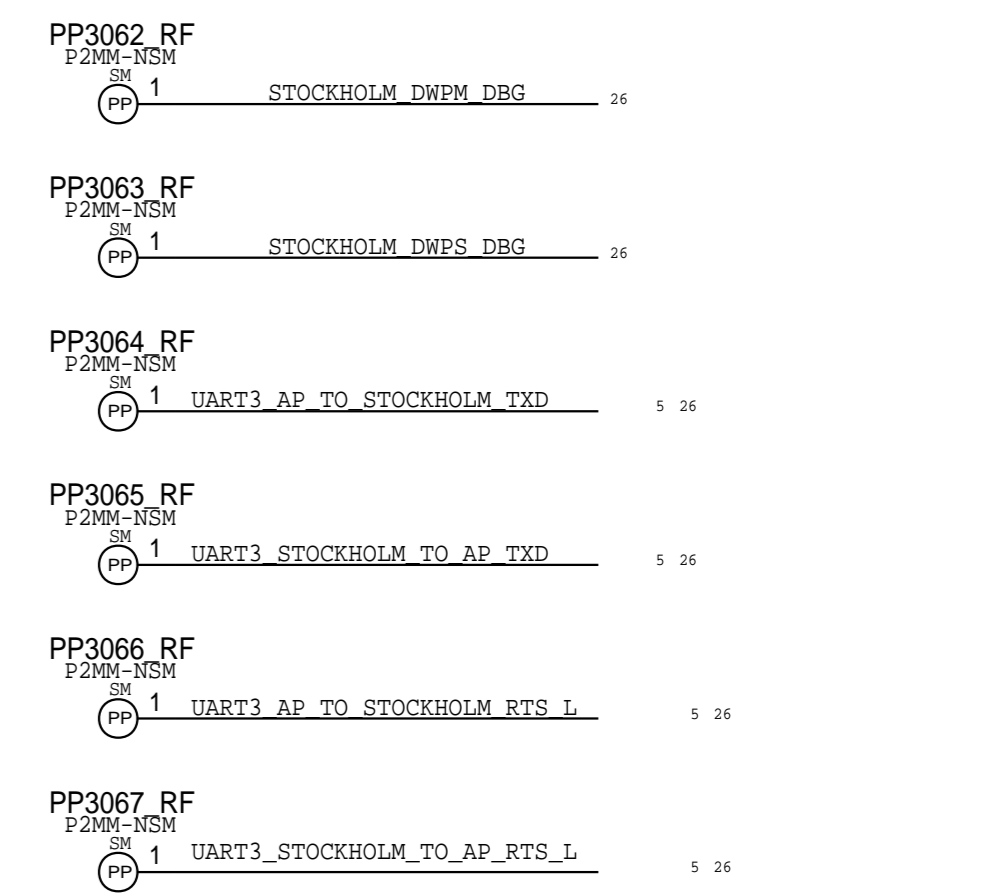
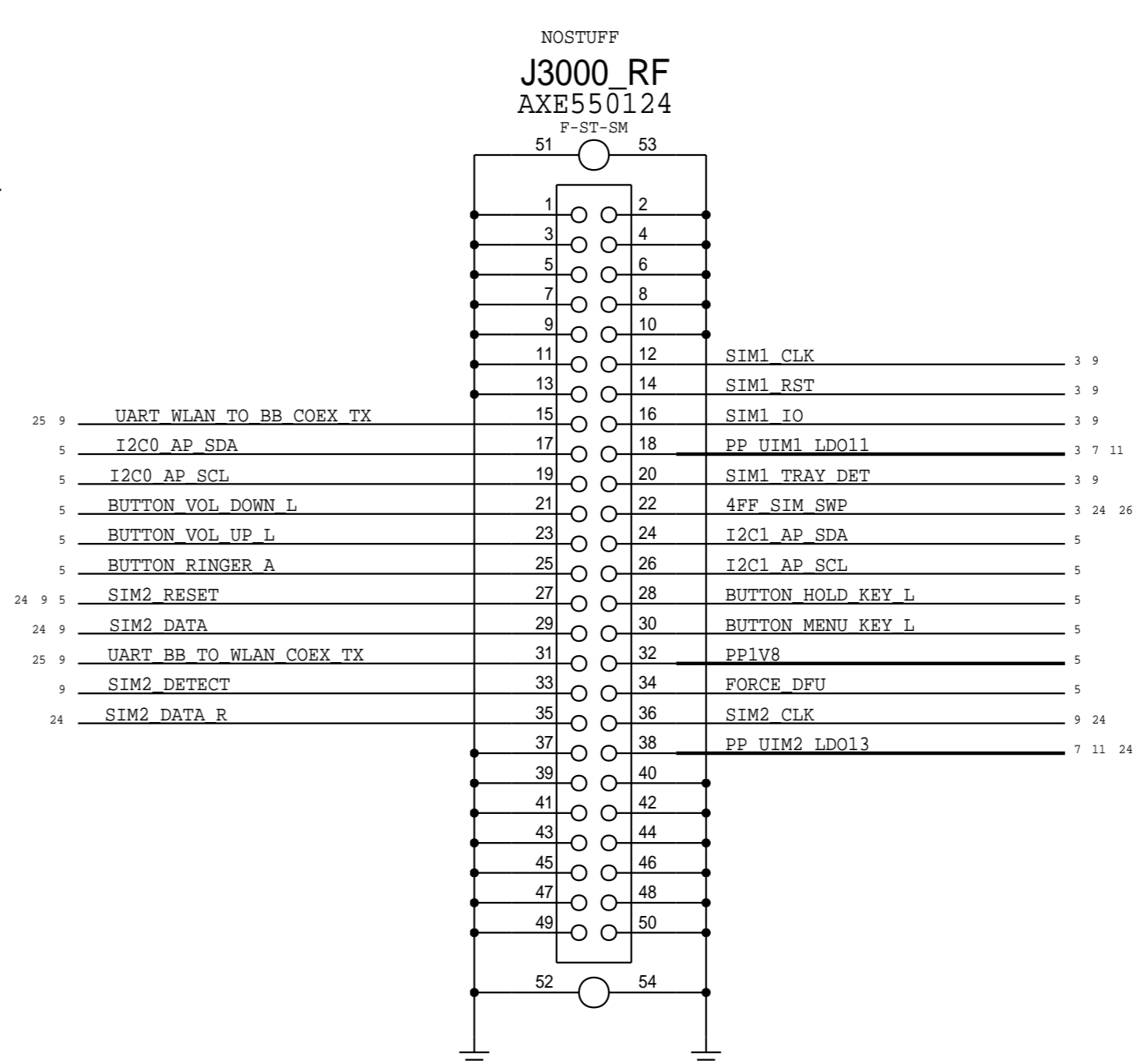
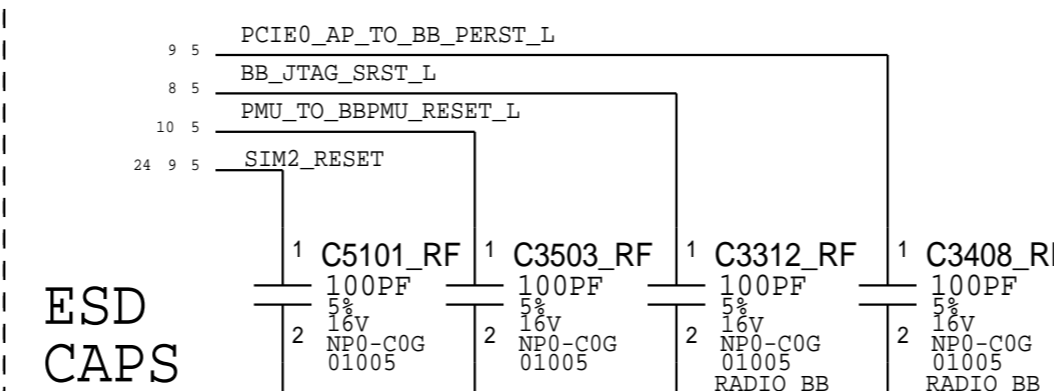
DEBUG CONNECTOR

STOCKHOLM

AP DEBUG

STOCKHOLM

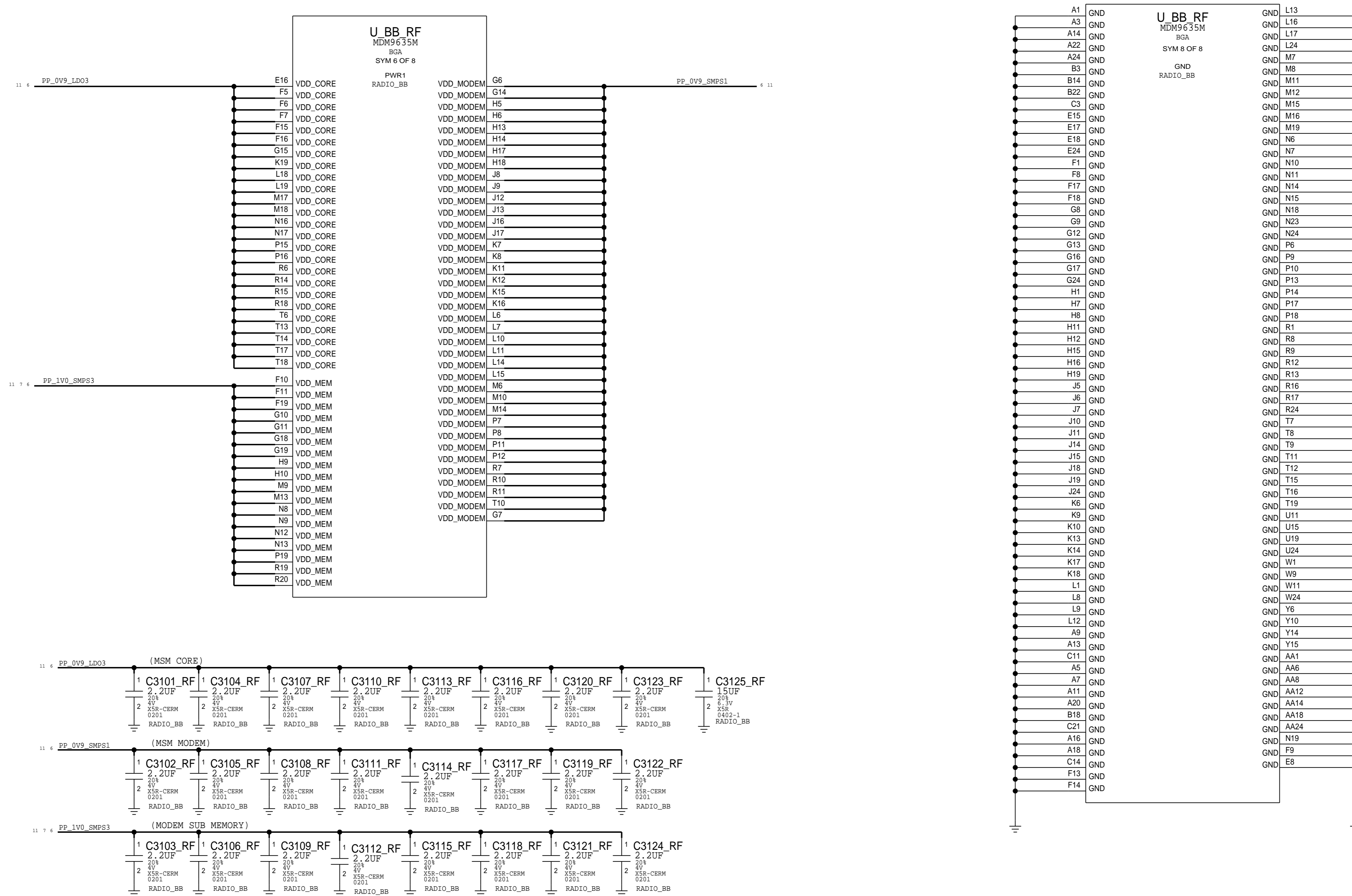
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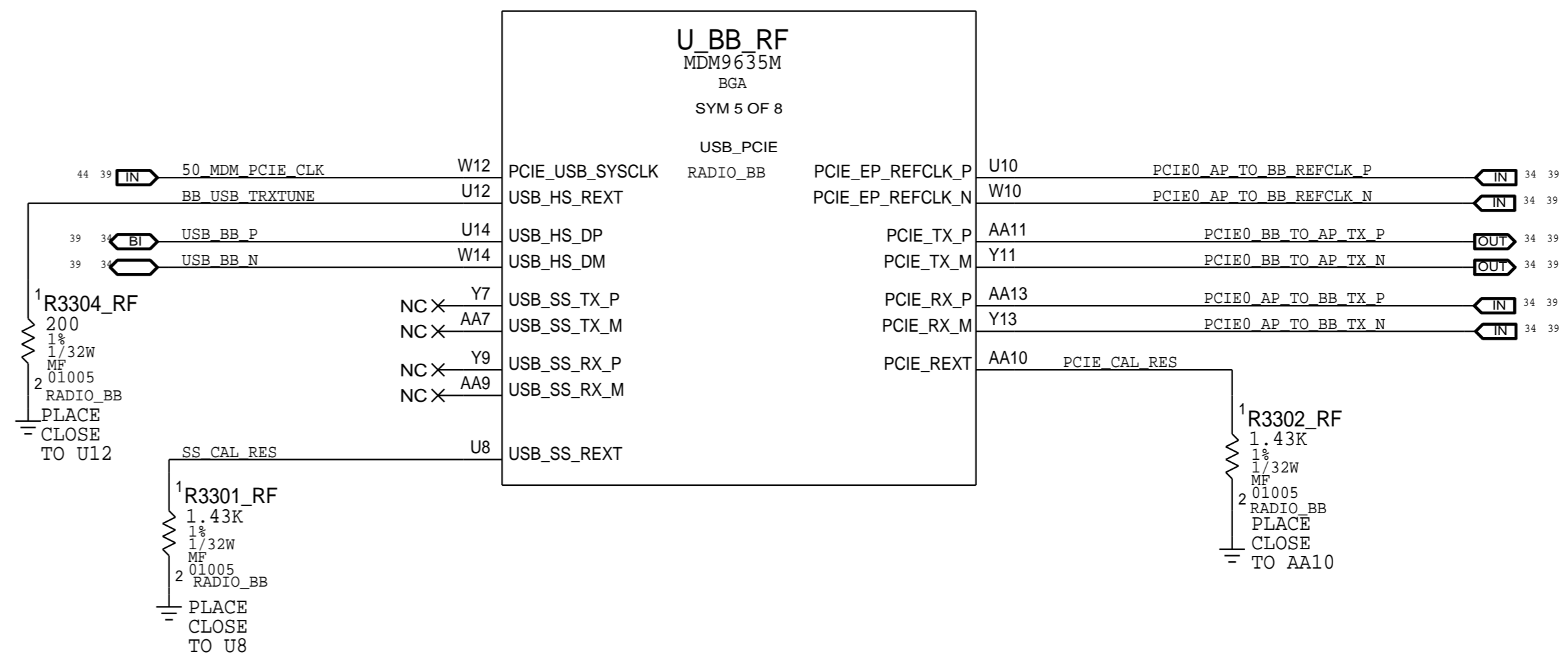
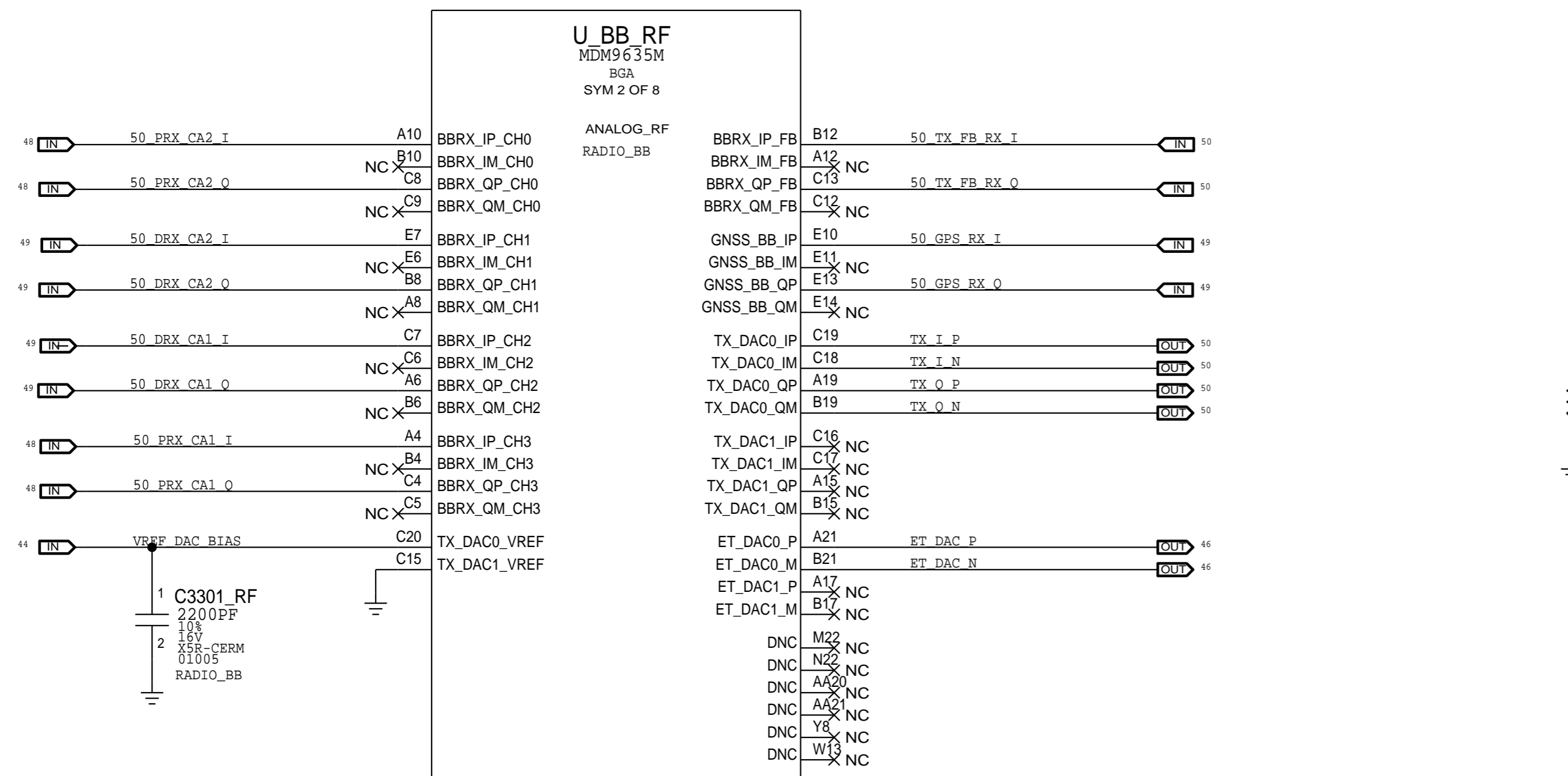
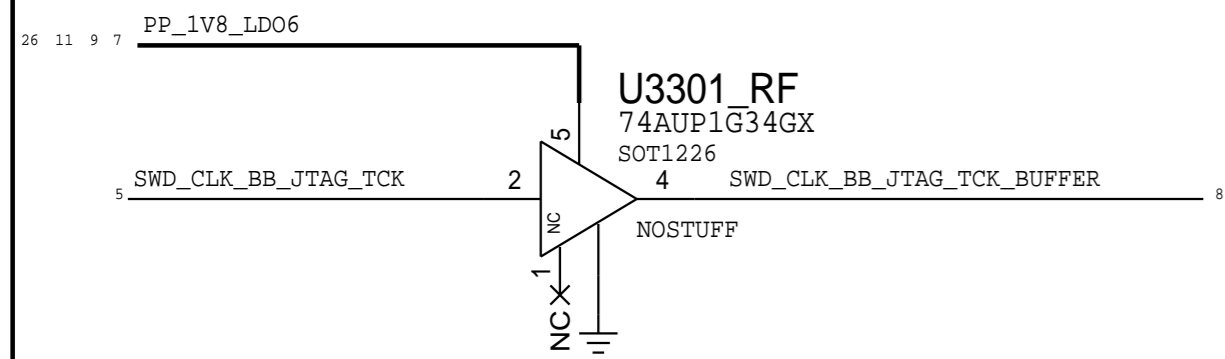
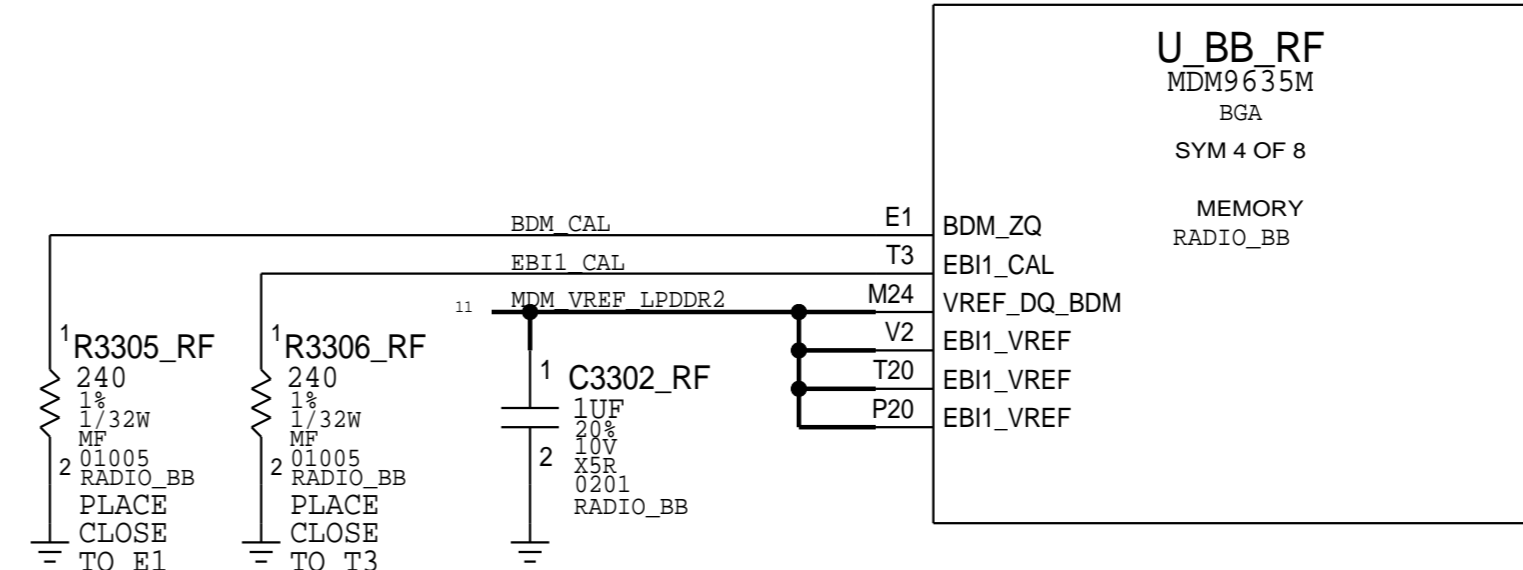
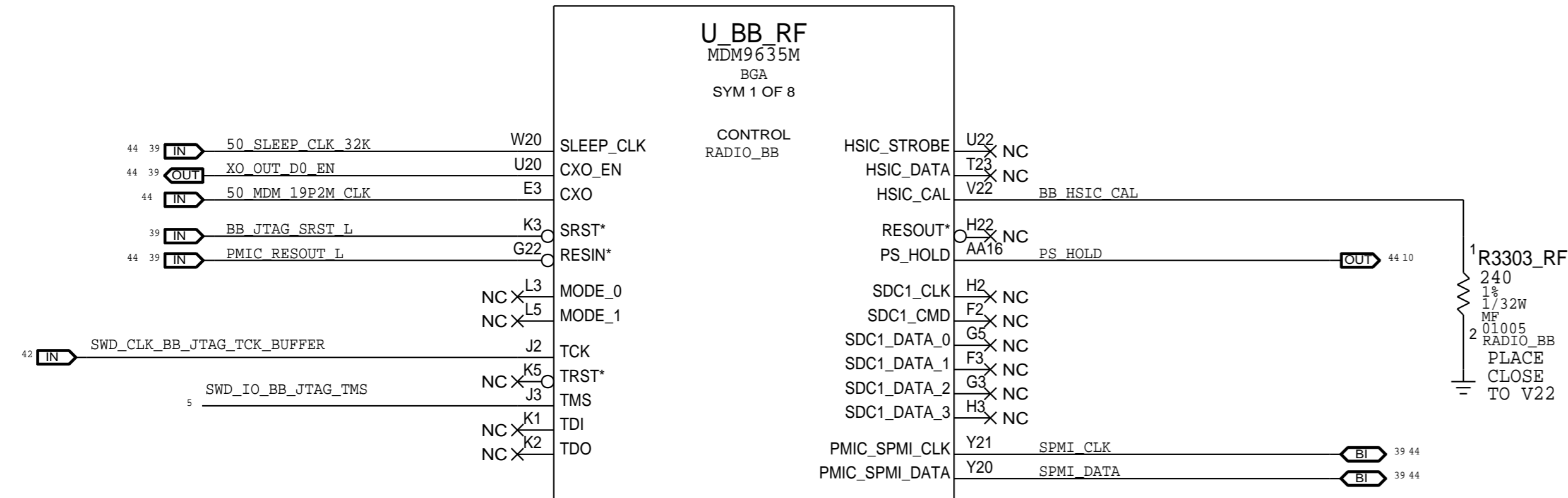
BASEBAND: POWER 1



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BASEBAND: CONTROL AND INTERFACES

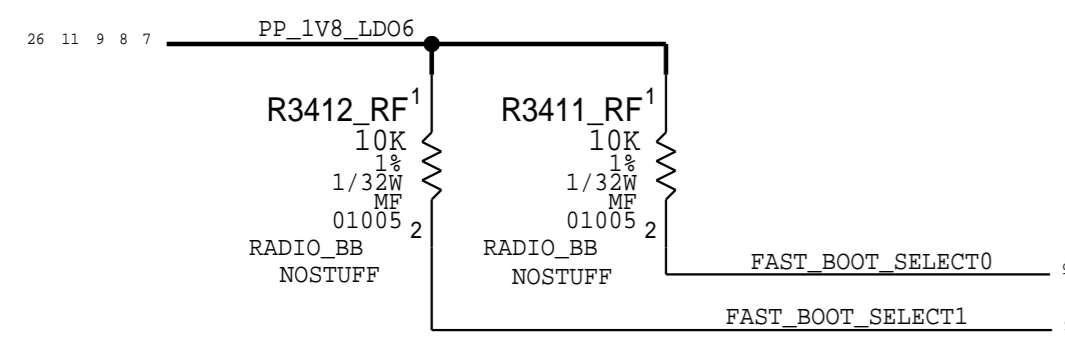
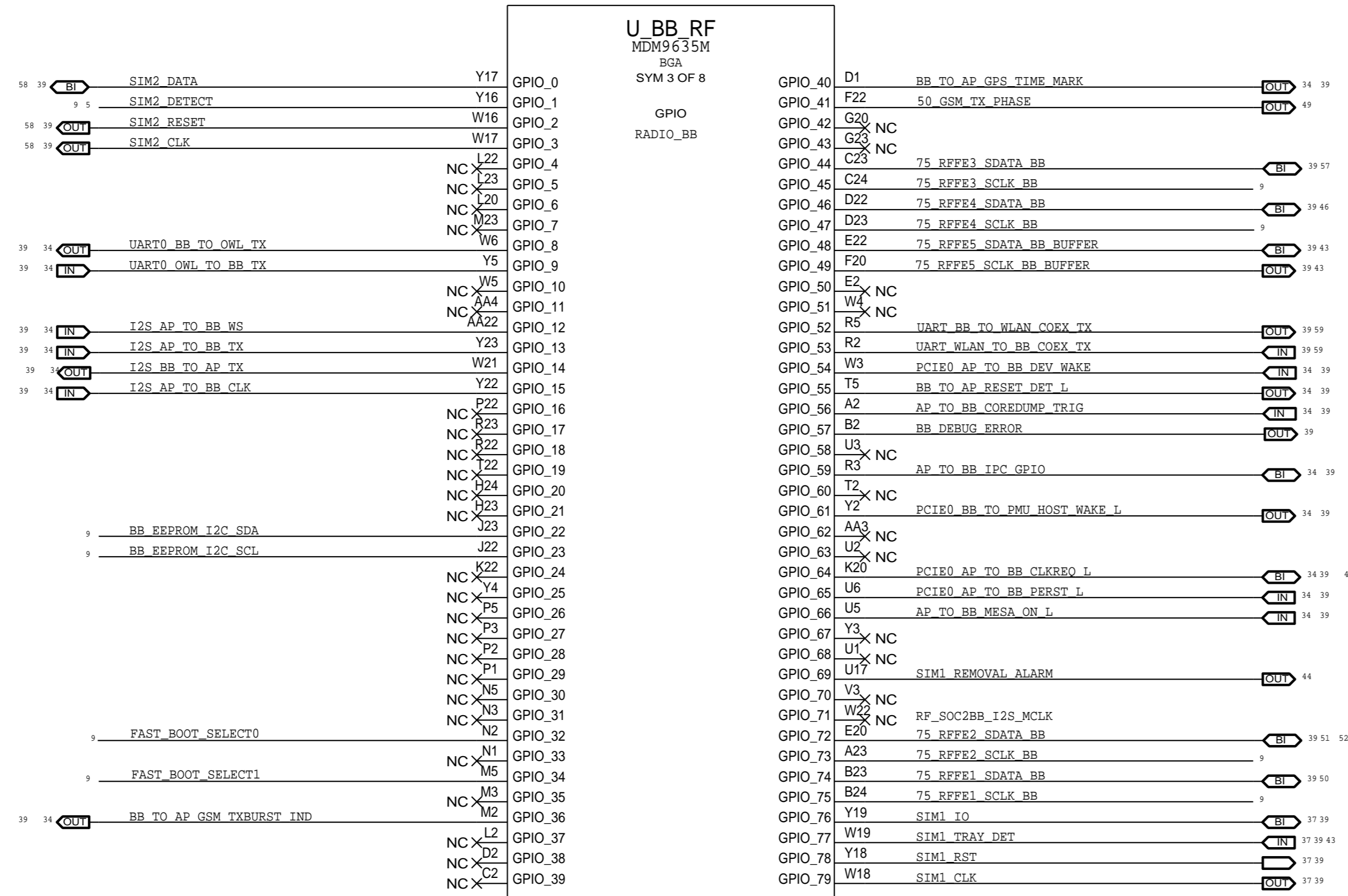


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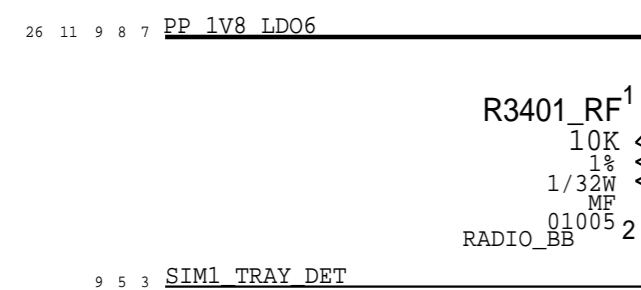
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		SHEET	42 OF 60

BASEBAND: GPIOs

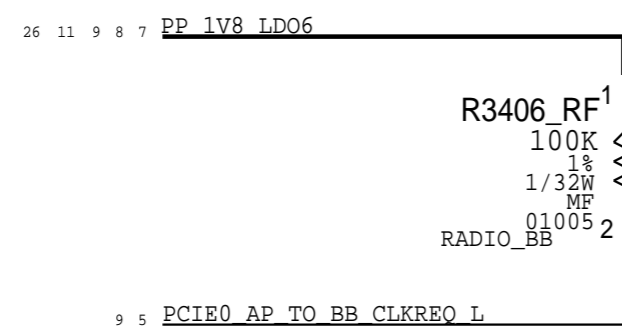
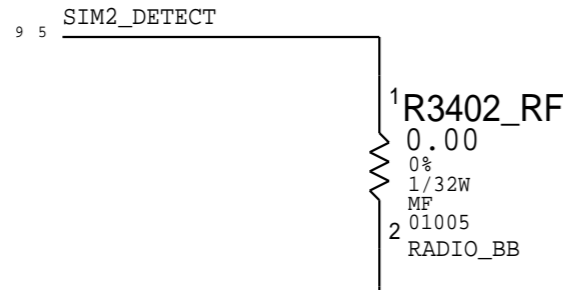


STUFF R3411 FOR PCIE BOOT (UNFUSED BB)
STUFF R3412 FOR USB BOOT (UNFUSED BB)

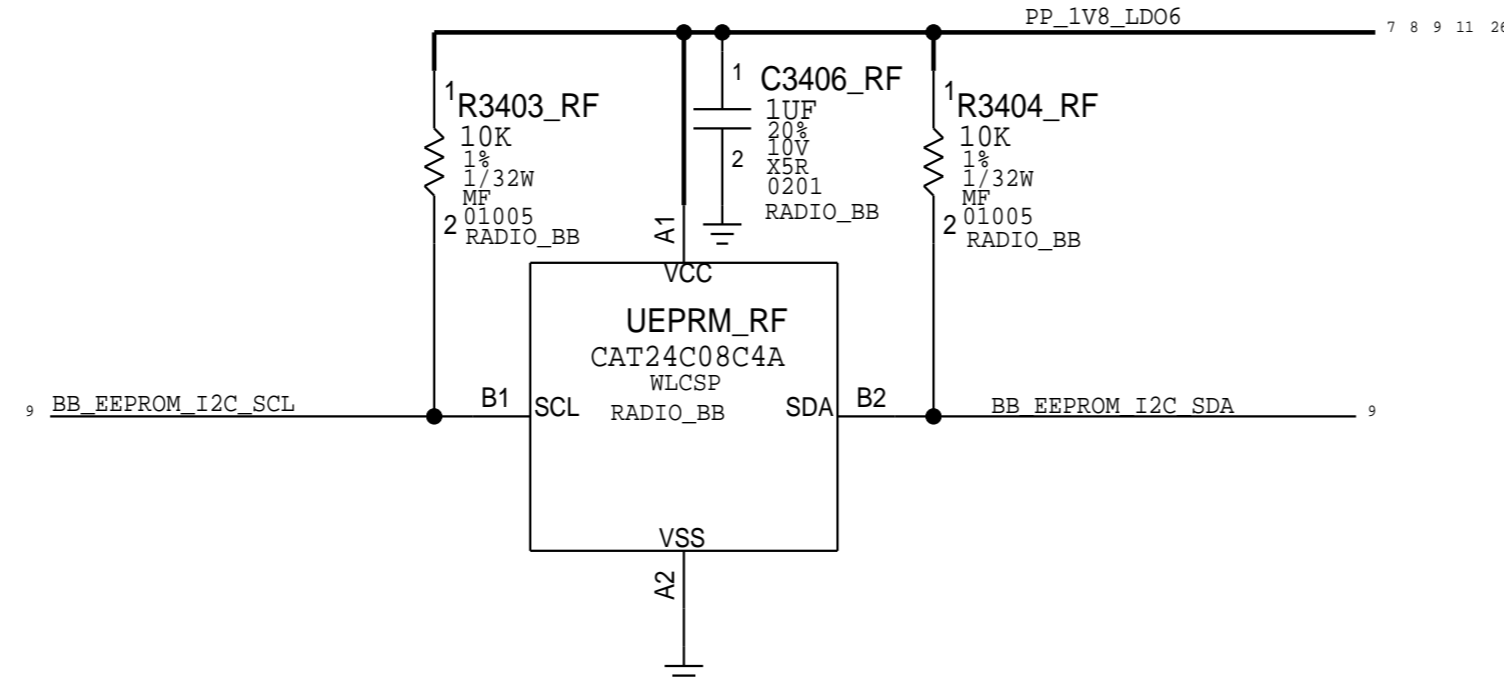
OPTION	SEL2	SEL1	SEL0
GPIO	35	34	32
PCIE	0	0	1
HSUSB	0	1	0
HSIC	0	1	1



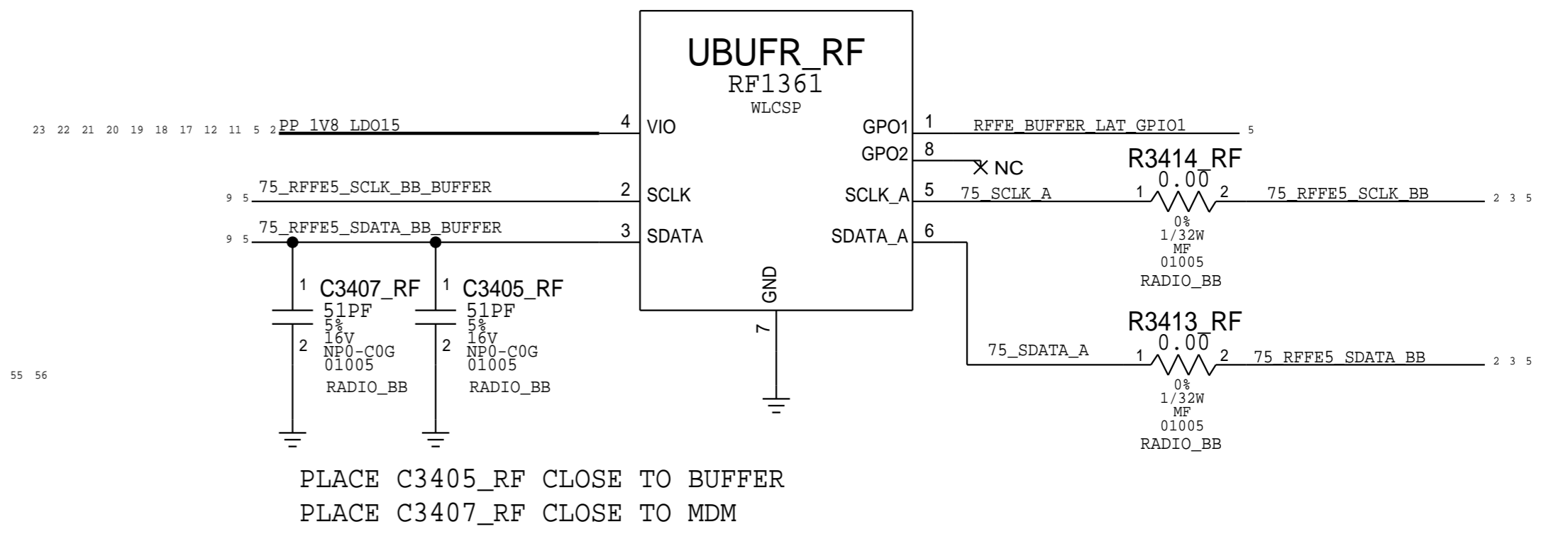
ALWAYS STUFF - VINYL PERMANENTLY REMOVED



BB EEPROM

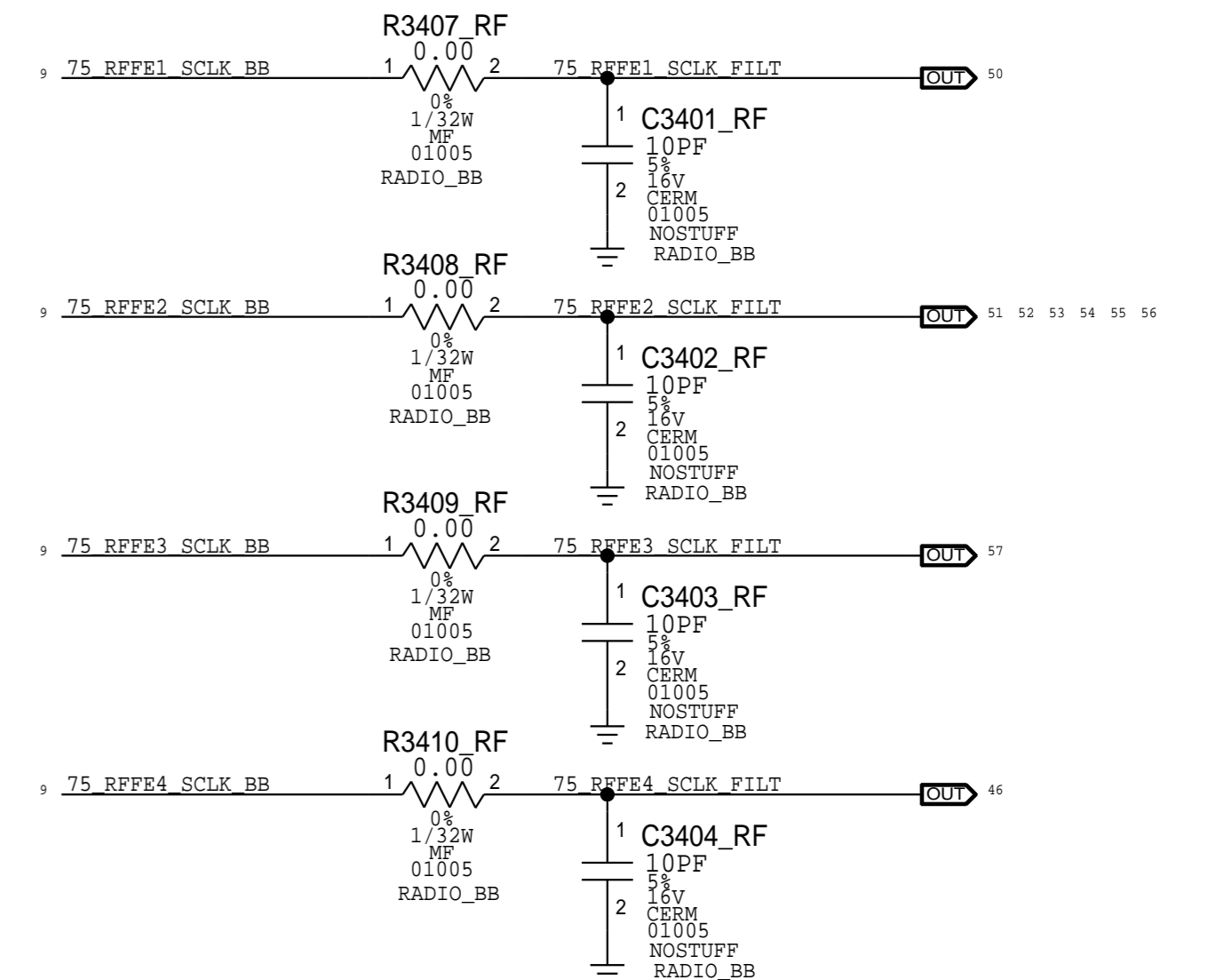


BUFFER ON RFFE5
SCLK/SDATA_A IS OUTPUT



PLACE C3405_RF CLOSE TO BUFFER
PLACE C3407_RF CLOSE TO MDM

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

PCIE PULL-UPS TO BB RAIL

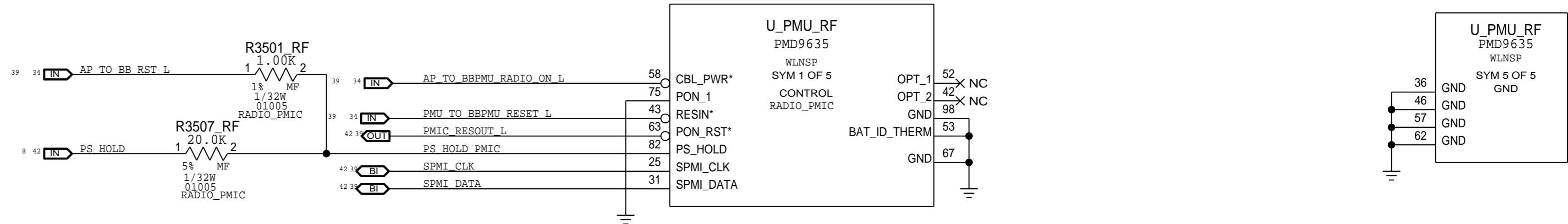
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CELLULAR BASEBAND: GPIOs		051-00094	D
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PMU: CONTROL AND CLOCKS

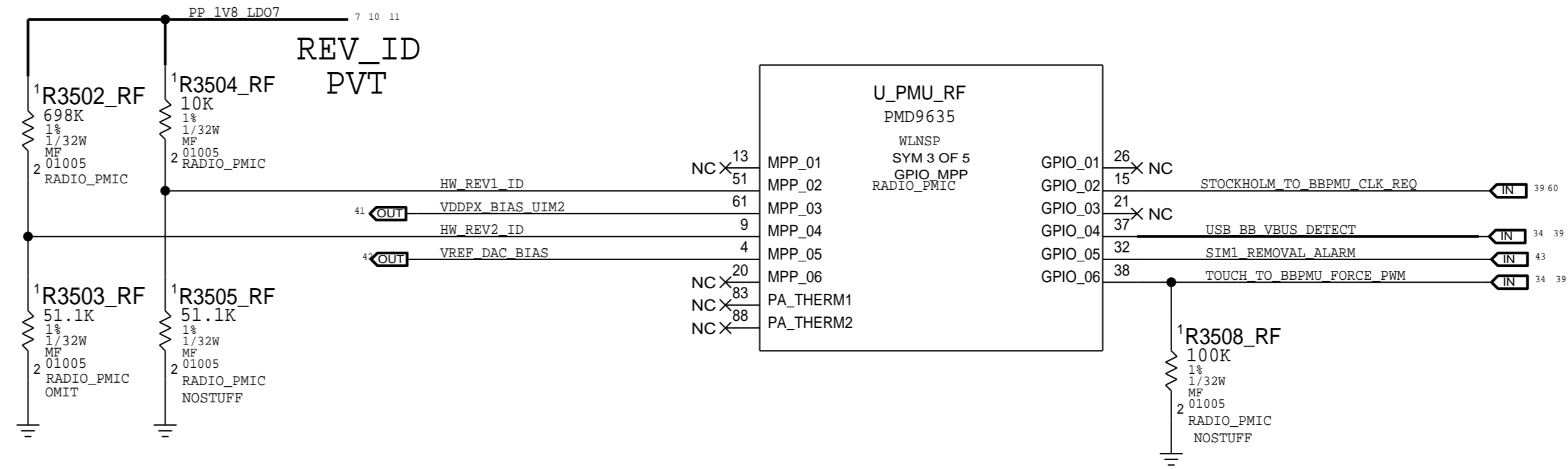
RESET AND CONTROL: PMU

HW_REV1_ID	R3502	R3503	CONFIG
1.80V	698K	-	MLB
0.12V	698K	51.1K	SELF GEN

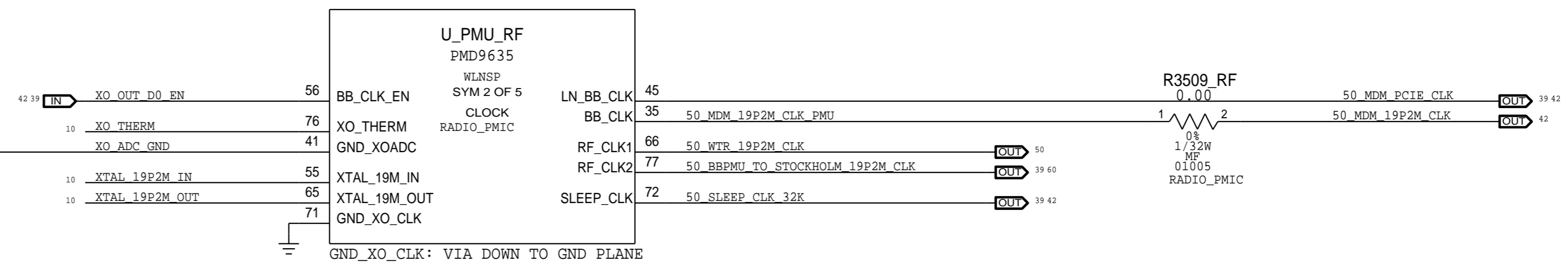
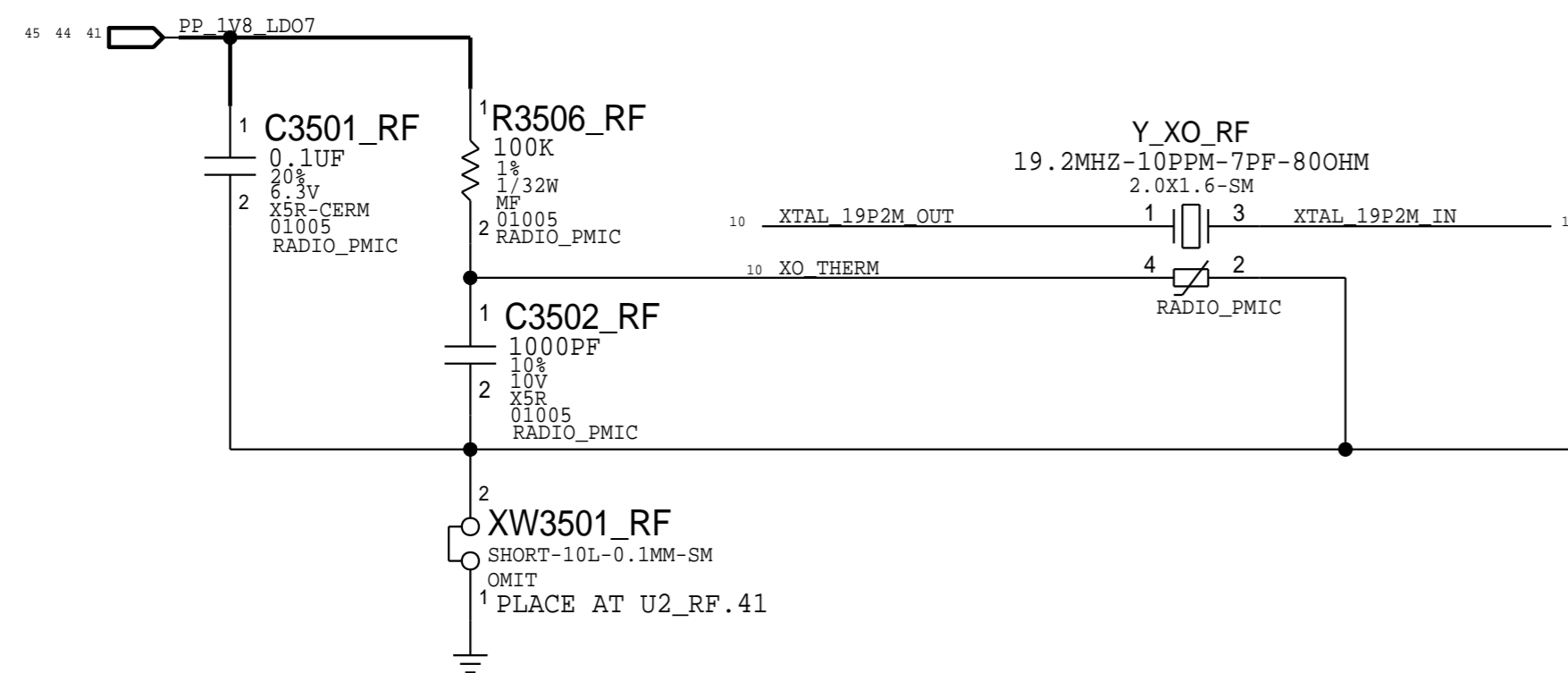


MPPS AND GPIOs: PMU

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
1.67V	3.92K	51.1K	DVT
1.80V	10K	-	PVT



XTAL AND CLOCK: PMU



PMU: SWITCHERS AND LDOS

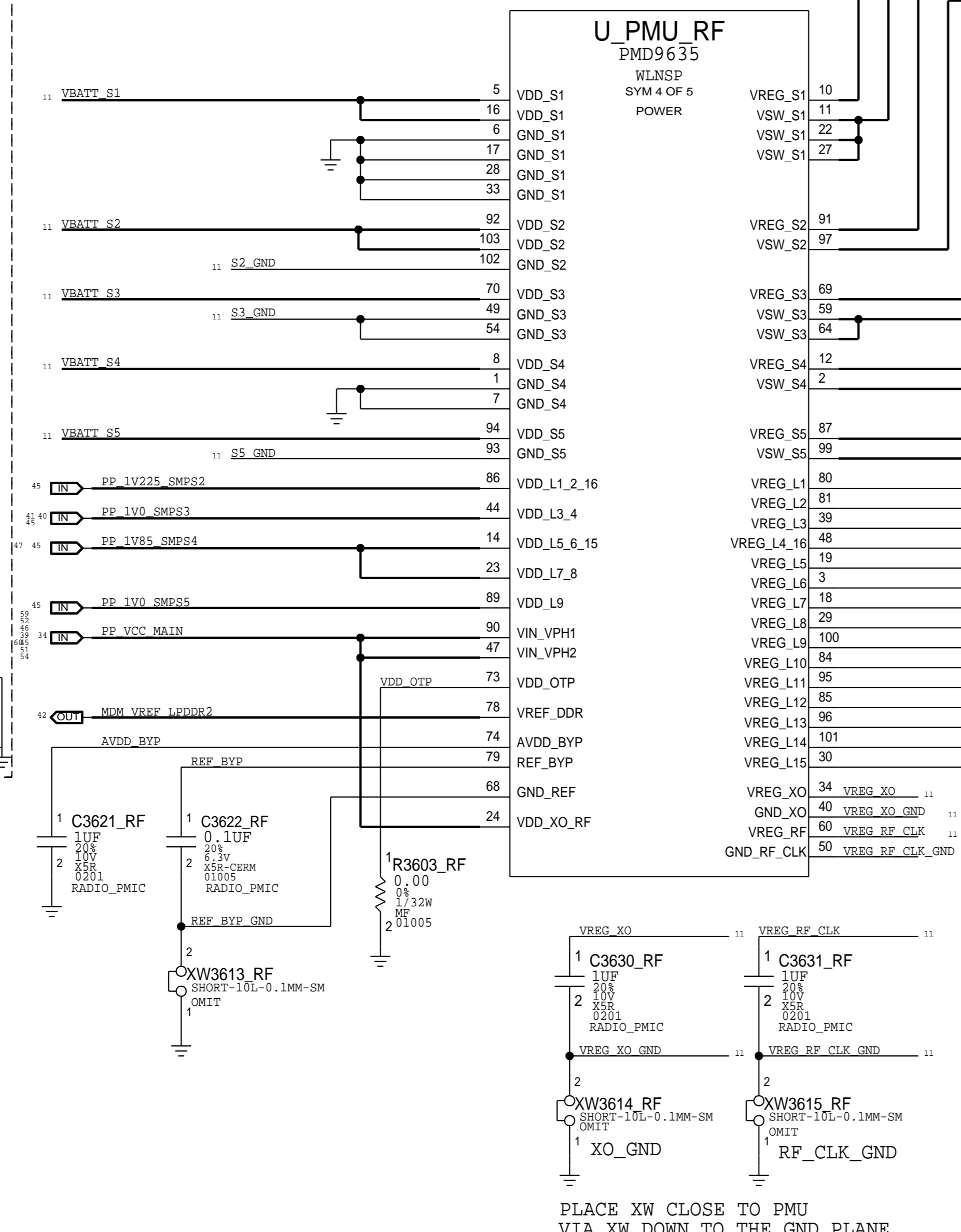
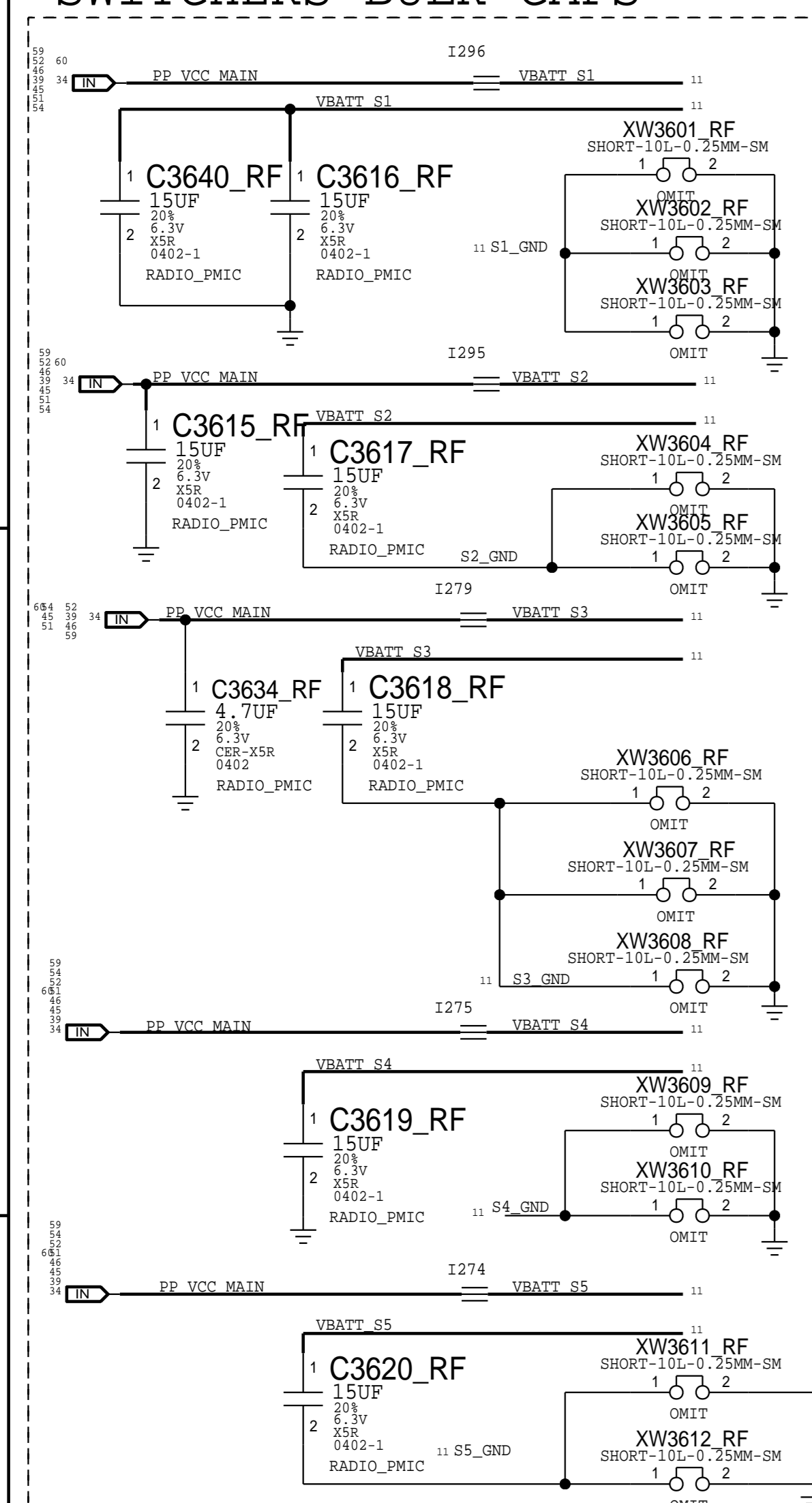
SWITCHERS BULK CAPS

D

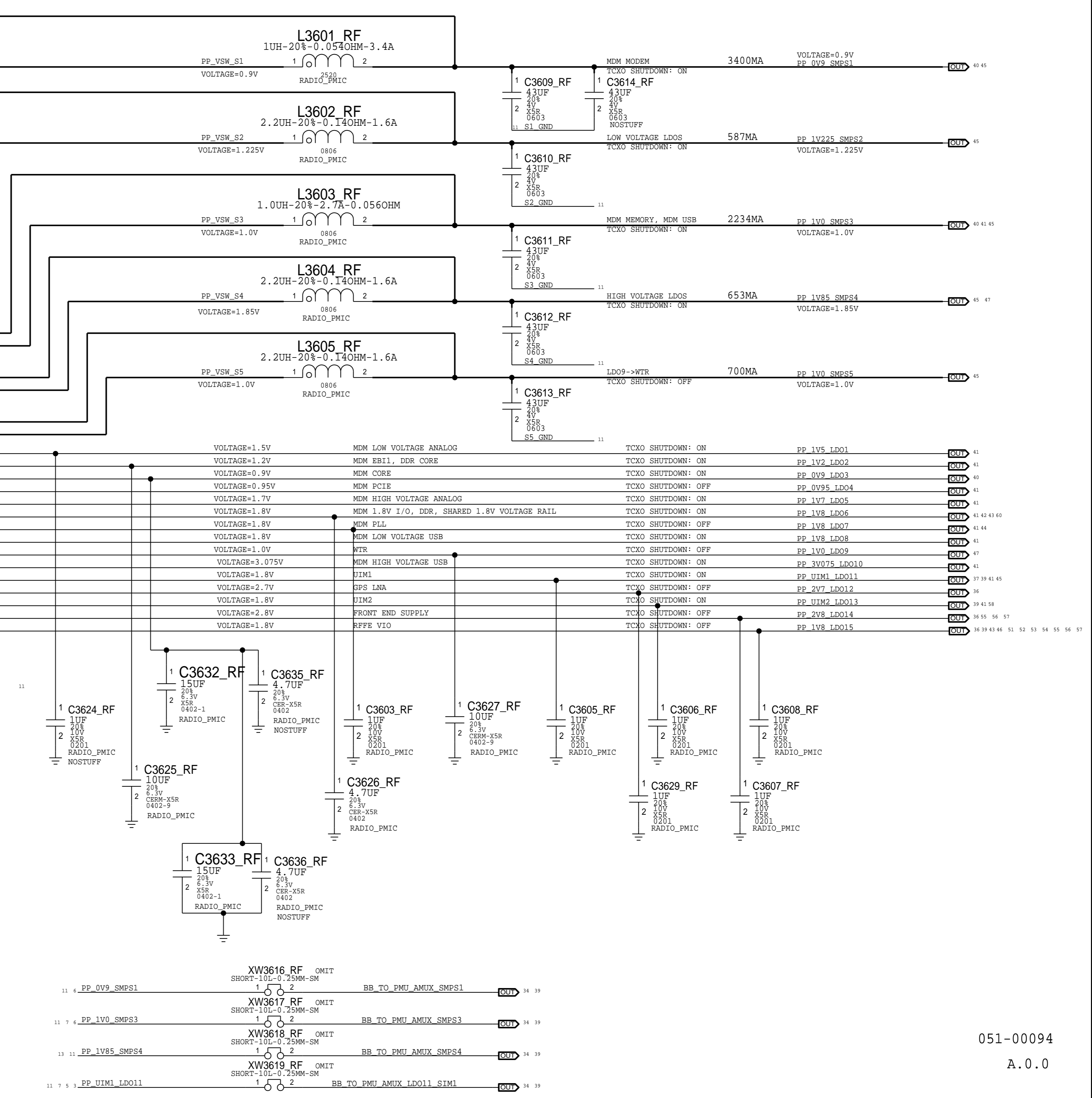
C

B

A



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



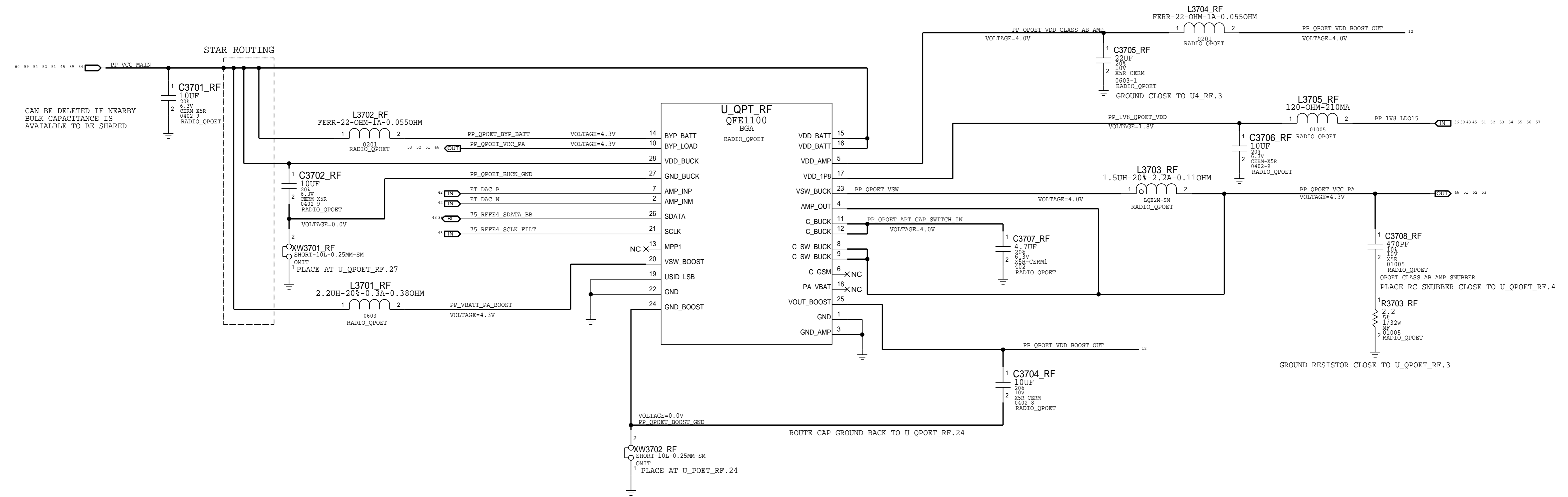
D

C

B

A

PMU: ET MODULATOR



CAN BE DELETED IF NEARBY BULK CAPACITANCE IS AVAILALBLE TO BE SHARED

STAR ROUTING

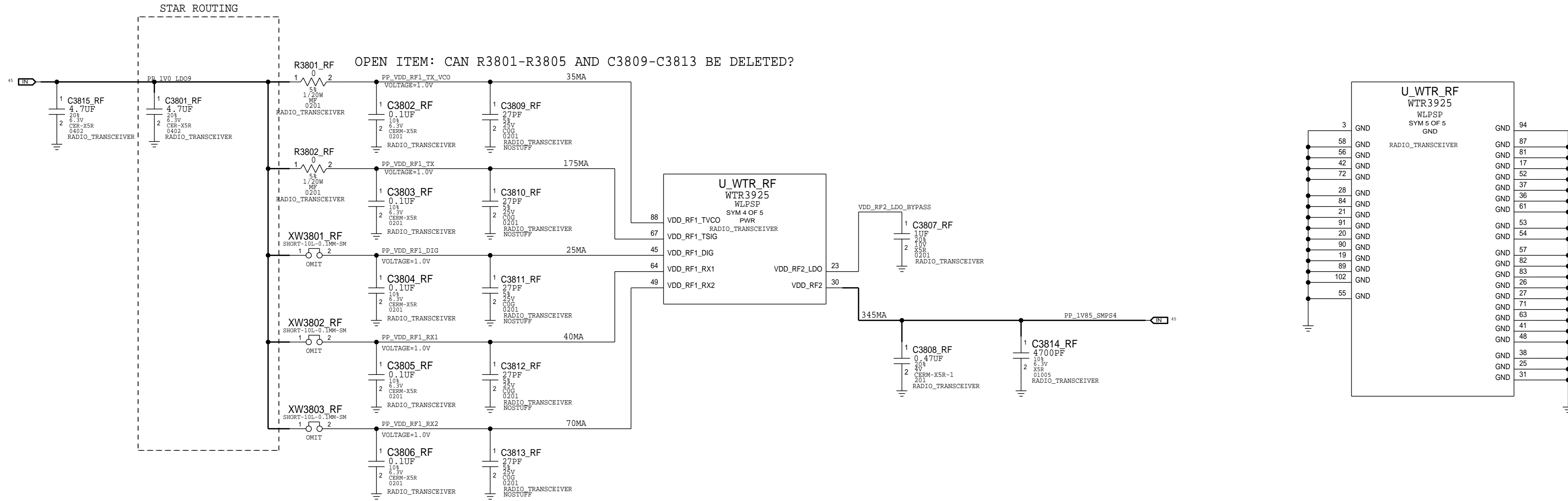
ROUTE CAP GROUND BACK TO U_QPOET_RF.24

GROUND RESISTOR CLOSE TO U_QPOET_RF.3

PAGE TITLE		CELLULAR PMU: ET MODULATOR	
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BRANCH			
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TRANSCEIVER: POWER

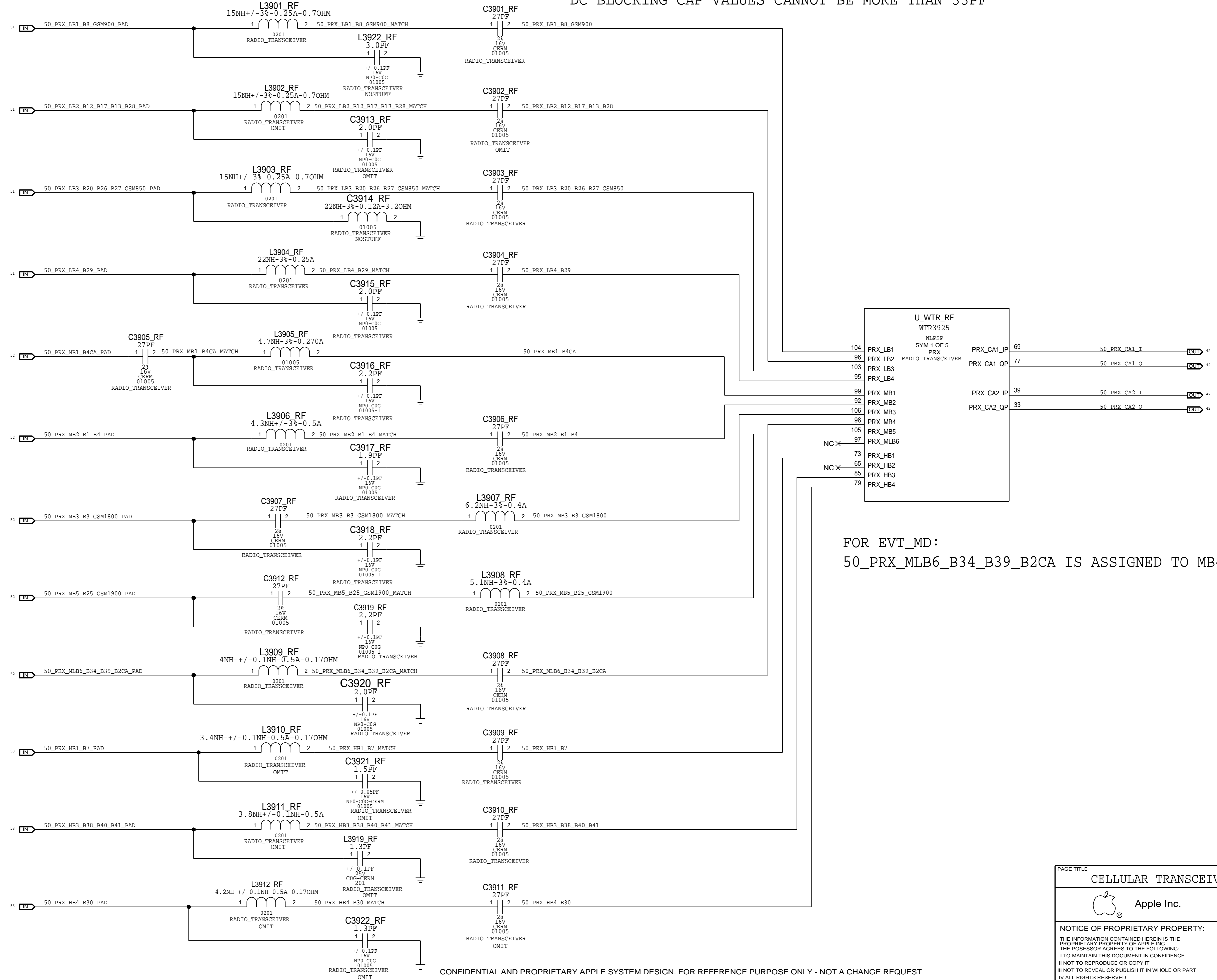


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		47 OF 60

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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

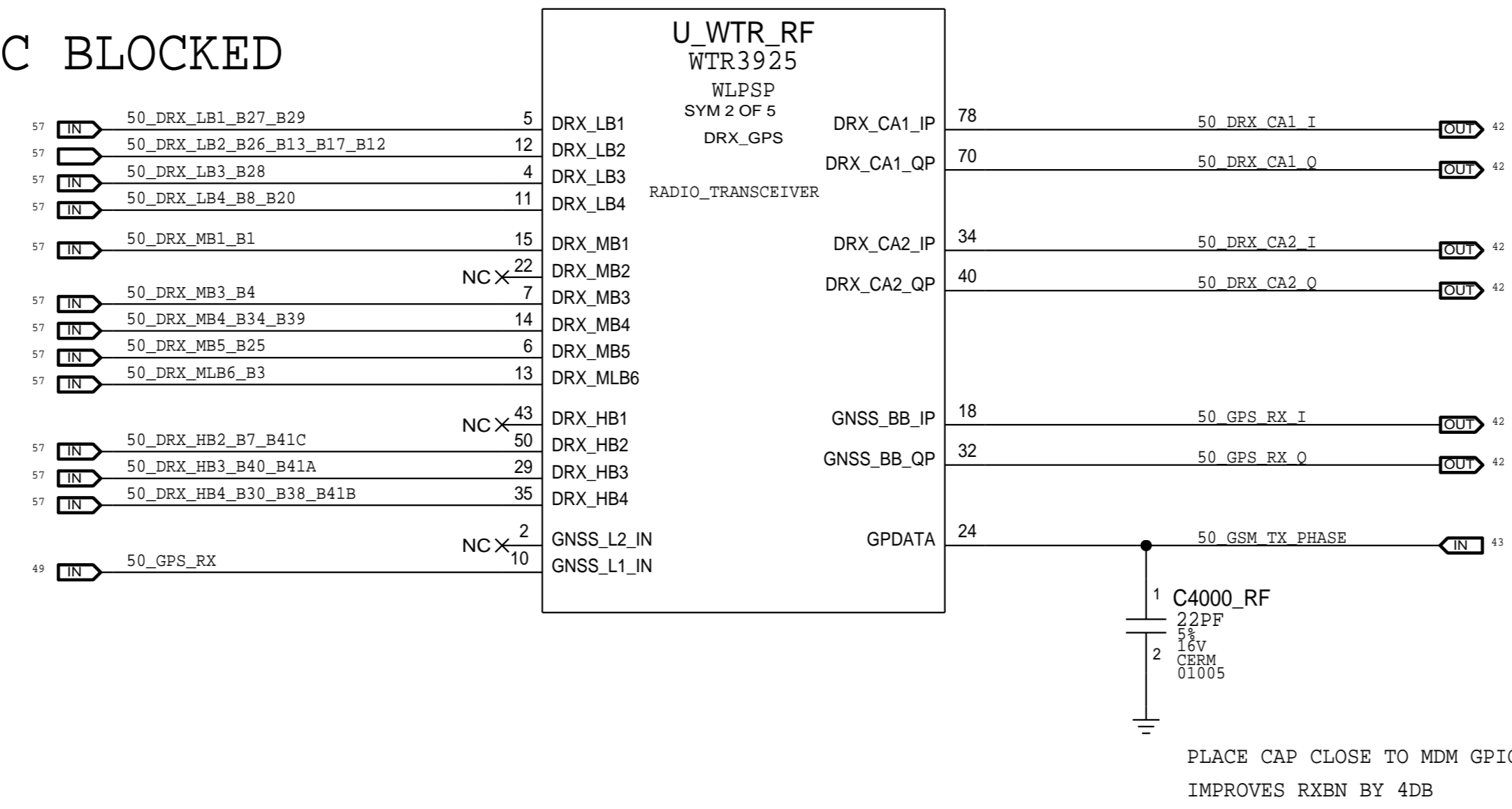
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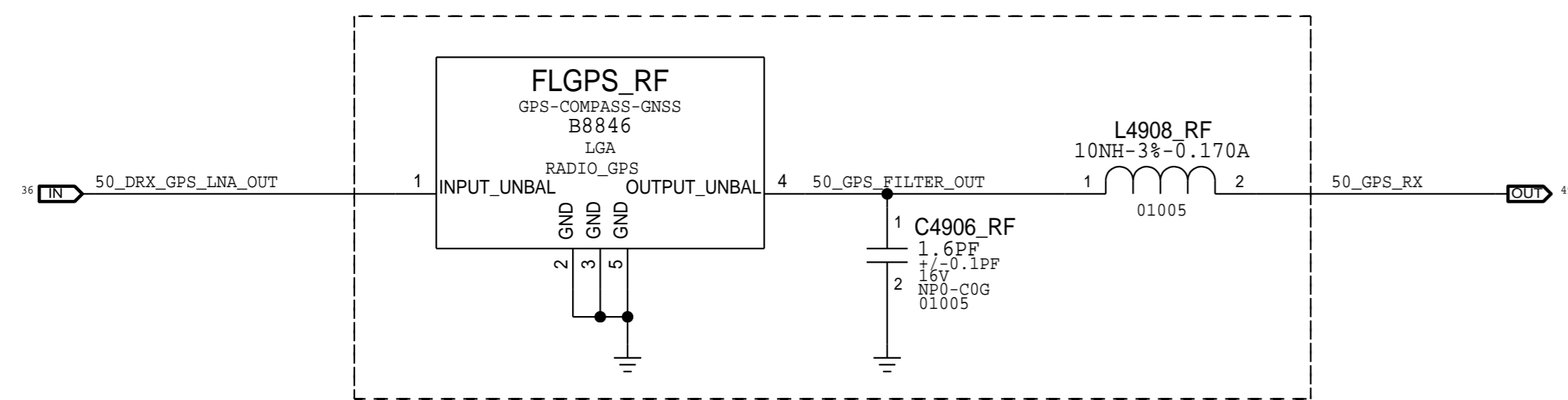
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DRX MODULE PORTS ARE DC BLOCKED



GPS FILTER

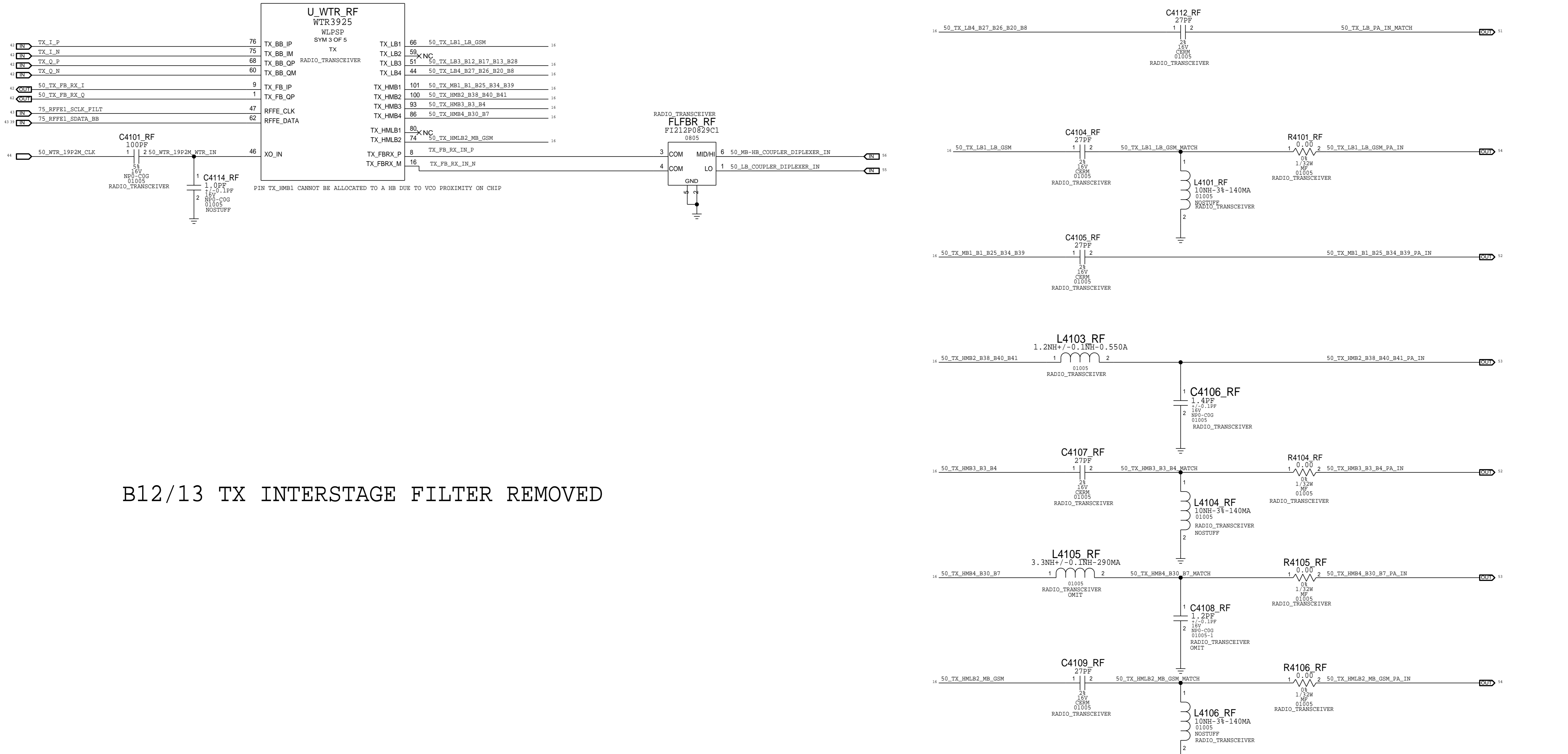
PLACE NEAR U_WTR



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TRANSCEIVER: TX PORTS

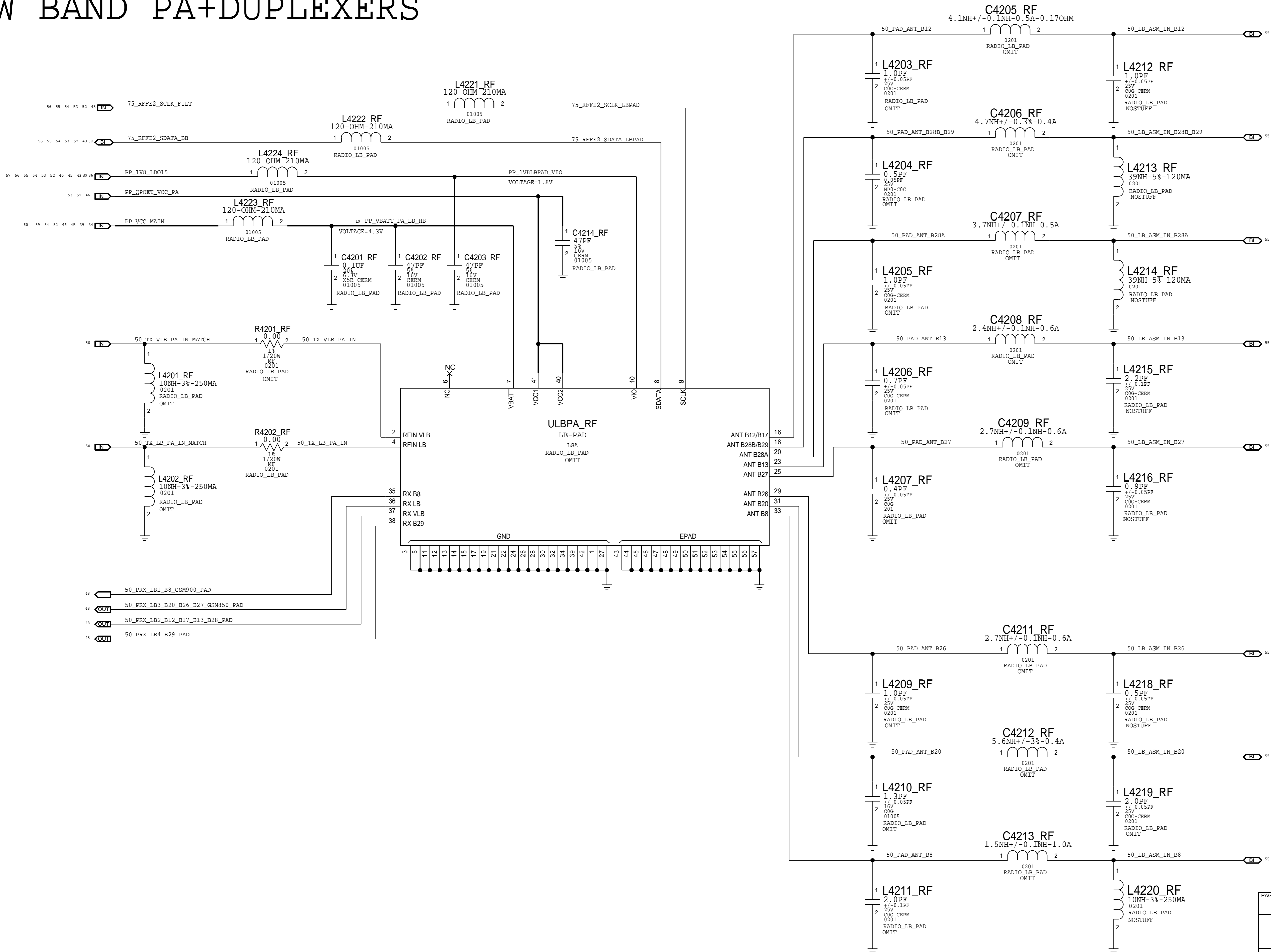


B12/13 TX INTERSTAGE FILTER REMOVED

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LOW BAND PA+DUPLEXERS

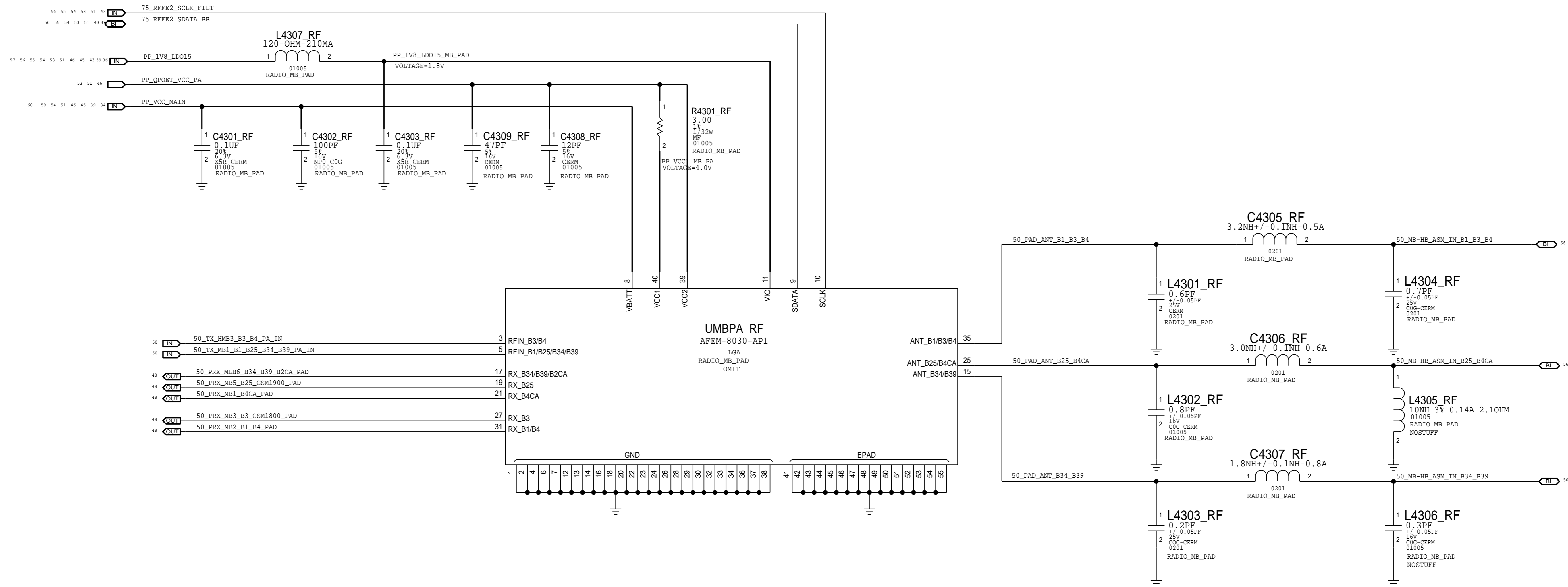


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MID BAND PA+DUPLEXERS

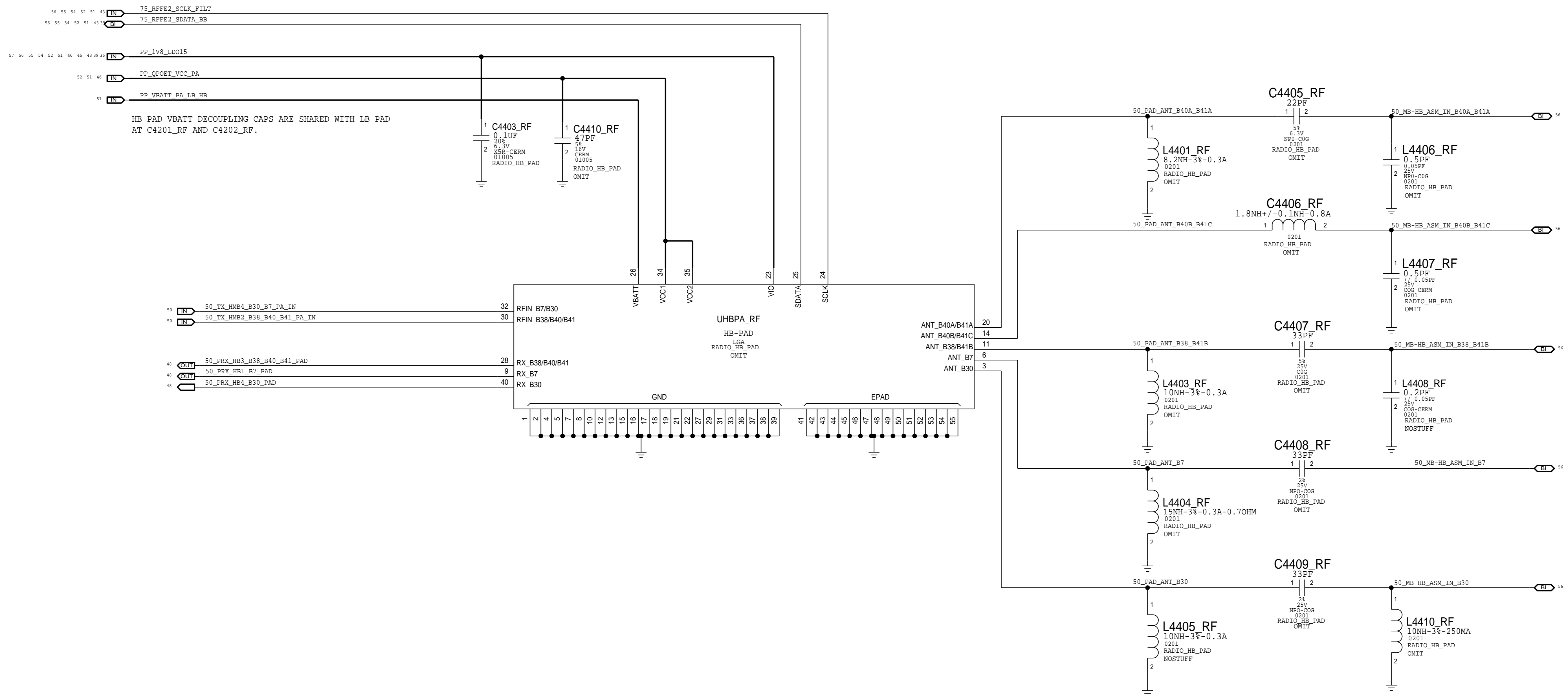


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HIGH BAND PA+DUPLEXERS



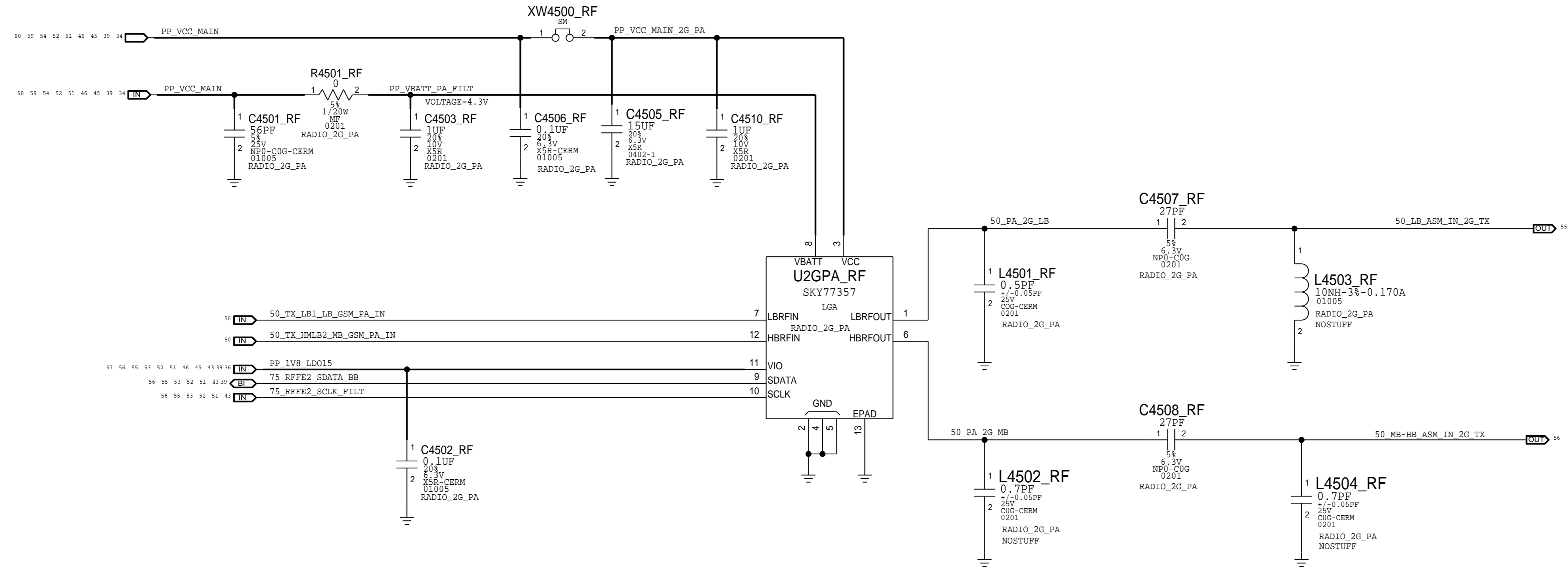
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2G PA

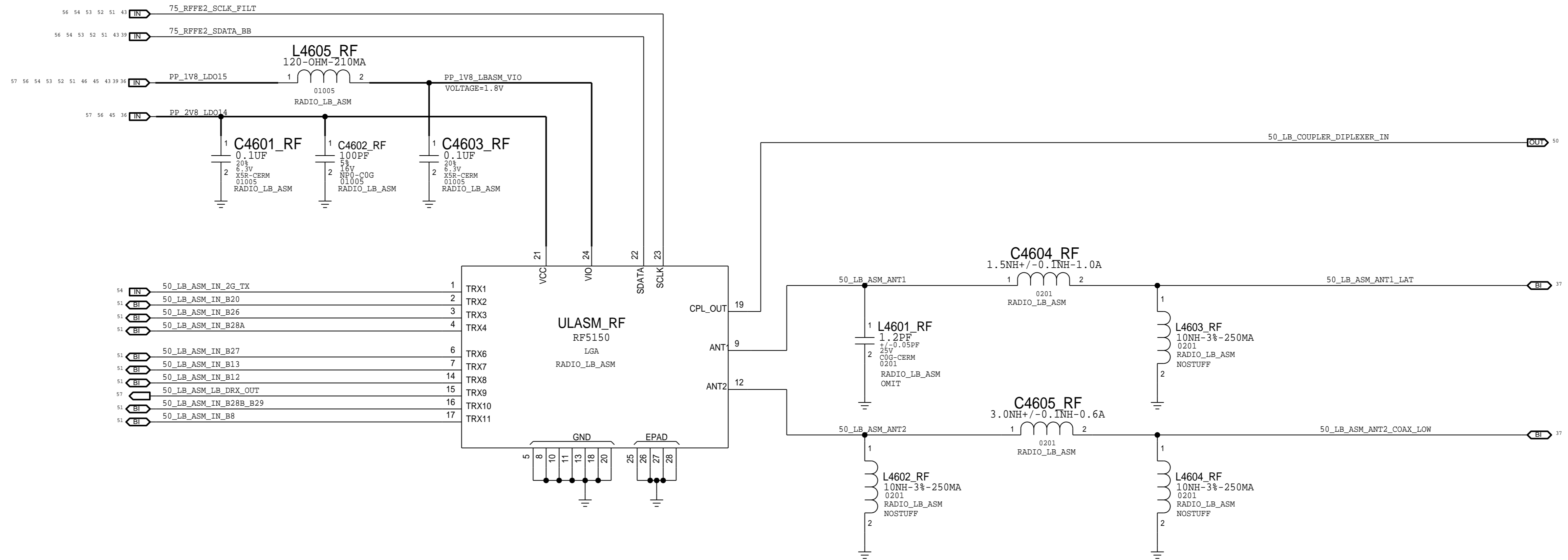


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LOW BAND ANTENNA SWITCH MODULE



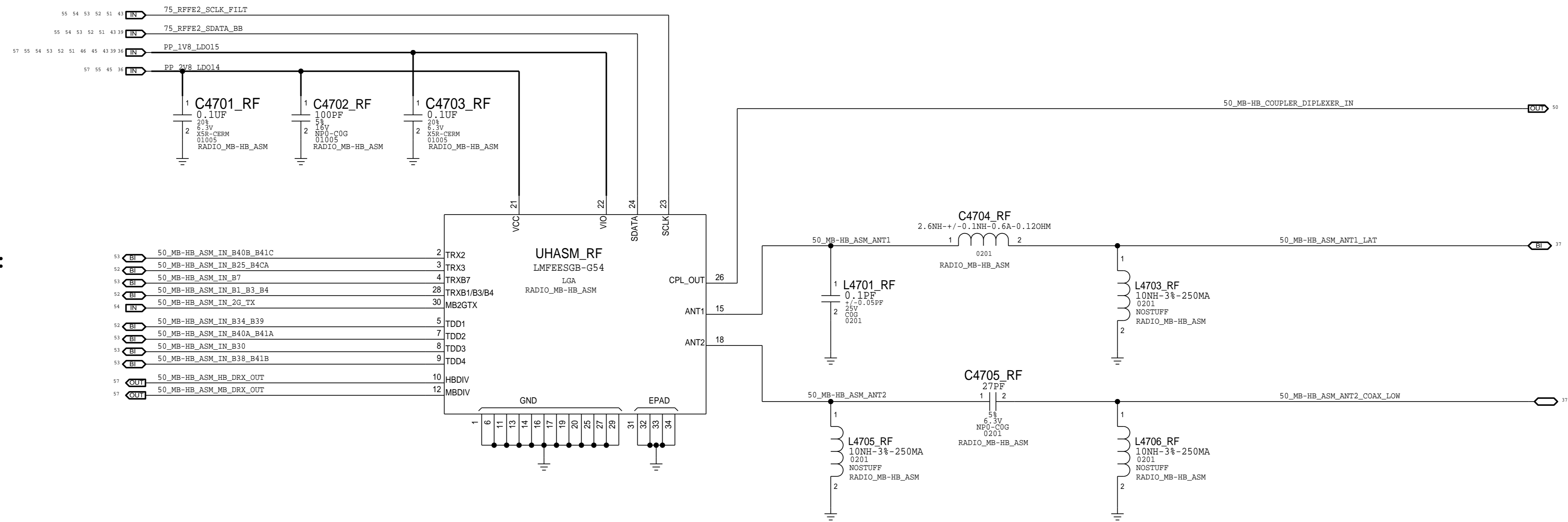
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MID-HIGH BAND ANTENNA SWITCH MODULE

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

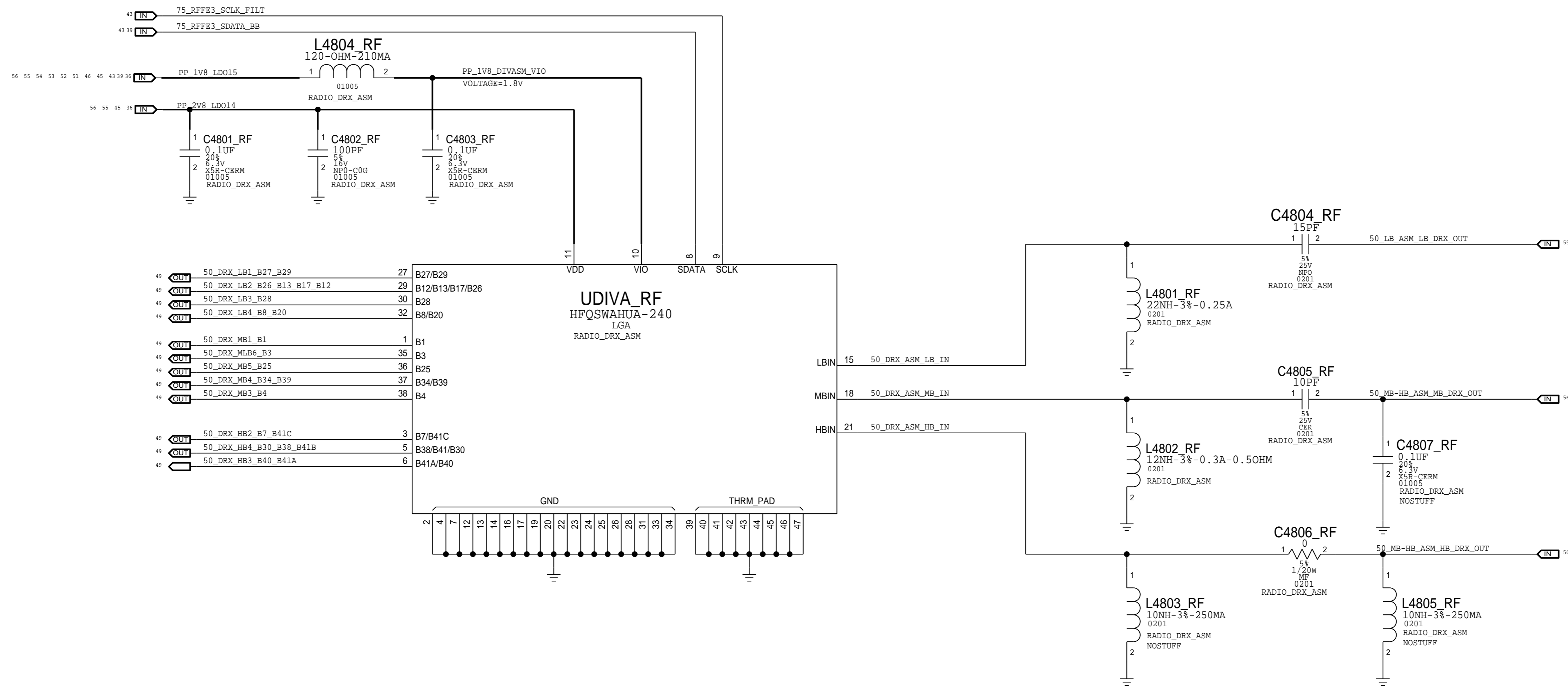


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DIVERSITY MODULE

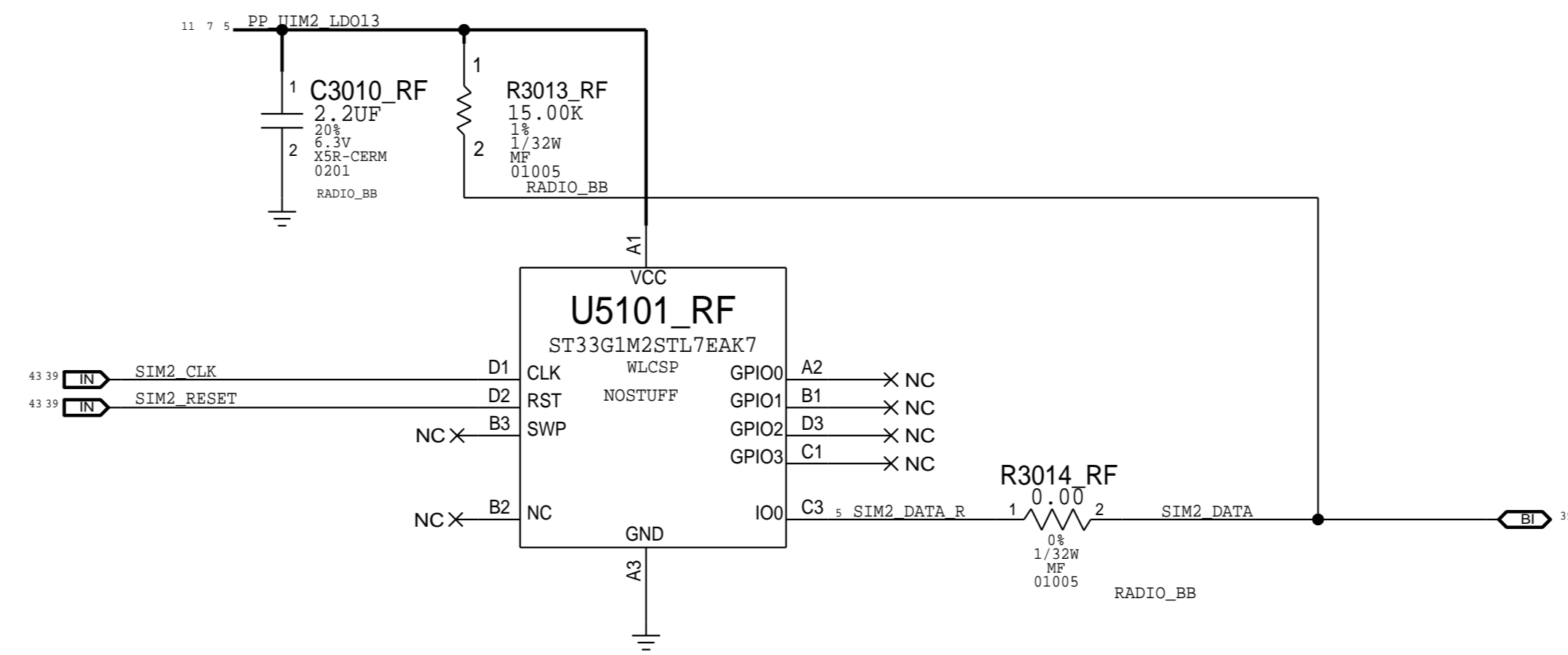


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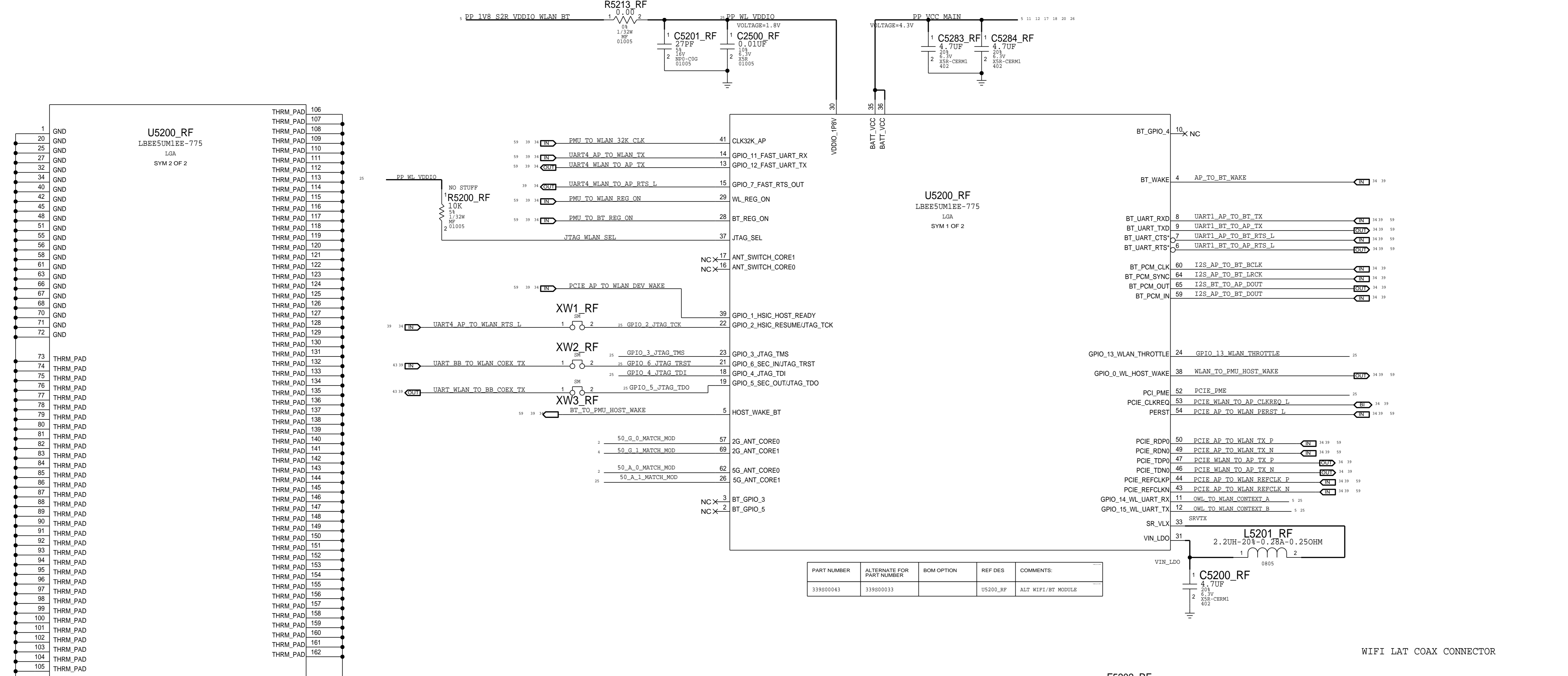


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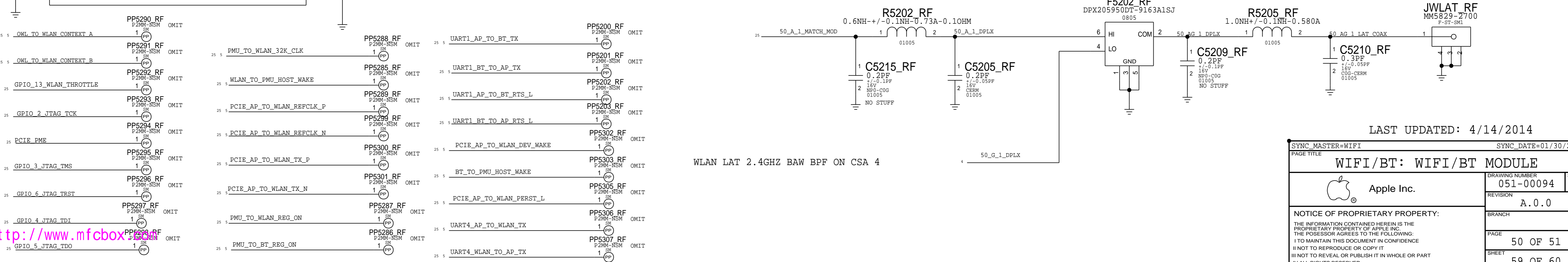
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		SHEET	58 OF 60

WIFI/BT



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339800043	339800033		U5200_RF	ALT WIFI/BT MODULE

WIFI LAT COAX CONNECTOR



LAST UPDATED: 4/14/2014

SYNC_MASTER=WIFI		SYNC_DATE=01/30/2014	
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