

ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
371S0730	371S00172			D82P0
	155S00400		FL2860	
155S00194	155S00400			FL2860
128S00067	128S00094			C81C0-2
128S00069	128S00094			C81C0-2
155S0755	155S00341			FL2700-2, FL4540, FL4710
131S00172	131S00164			220PF, 16V, 01005
	131S00164		C2743, C2801, ...	
376S00159	376S00311			Q8061
377S0116	377S00132			DZ3540
138S00116	138S00071			C810D-E, ...
138S00117	138S00071			C810D-E, ...

138S00143	138S00144		C81A0-4,...
138S00163	138S00144		C81A0-4,...
	138S00139	C133A-B,...	
138S00164	138S00139		C133A-B,...
138S00084	138S00060		C8563-69,...
152S01037	152S00887		L8101-03,...
132S00229	132S00010		C8555-57
	152S00885	L8190, A0	
197S00120	197S00118		Y0600
372S0194	372S0187		Q3790, Q8990
376S00319	376S00104		Q2201
376S00182	376S00126		Q8580
155S00664	155S00018		FL2742, 48, ...

SENSORS

KOBOL

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
IC,KOBOL	BMI282A	,LGA16	U2150	CRITICAL	KOBOL

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
-------------	---------------------------	------------	---------	-----------

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S00544	1	POP,CYPRUS+3GB 18NM,B1,M,DEV,CSP1262	U0600	CRITICAL	

PART NUMBER		ALTERNATE FOR PART NUMBER	BOM/CRT/ID#	COMMENTS:	
339S00545		339S00544	U0600	HYNIX	
	339S00546	339S00544		U0600	SAMSUNG

NAND

BEST FLASH CONFIGURATIONS (64GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
	1	NAND, 3DV3, 64GBT, S4E, 256G, SD, SLGA110	U1700 CRITICAL		BEST

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00359	335S00286		U1700	TOSHIBA

ULTIMATE FLASH CONFIGURATIONS (128GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00357	1	NAND, 3DV3, 128GBT, S4E, 256G, T, SLGA110	U1700	CRITICAL	ULTIMATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00246	335S00357		U1700	WD

SUPREME FLASH CONFIGURATIONS (256GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
	1	NAND, 3DV3,256GBT,S4E,256G,SD,SLGA110	U1700CRITICAL		SUPREME

PART NUMBER	ALTERNATE PART NUMBER		REF DES	COMMENTS:
335S00358	335S00247		U1700	TOSHIBA

EXTREME FLASH CONFIGURATIONS (512GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
	1	WAND, 3DV4, 512GBT, 84B, 512G, SD, SLGA110	U1700	CRITICAL	EXTREME

PART NUMBER	ALTERNATE PART NUMBER		REF DES	COMMENTS:	
	ALTERNATE PART NUMBER	ALTERNATE PART NUMBER			
335S00343	335S00339			U1700	HYNIX

CCG2

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
341S01186	1	FROM ASSY, IC, C032, FW, CYPRESS, VO. 3, C5P20	U8809	CRITICAL	

BOM TABLES

D



A

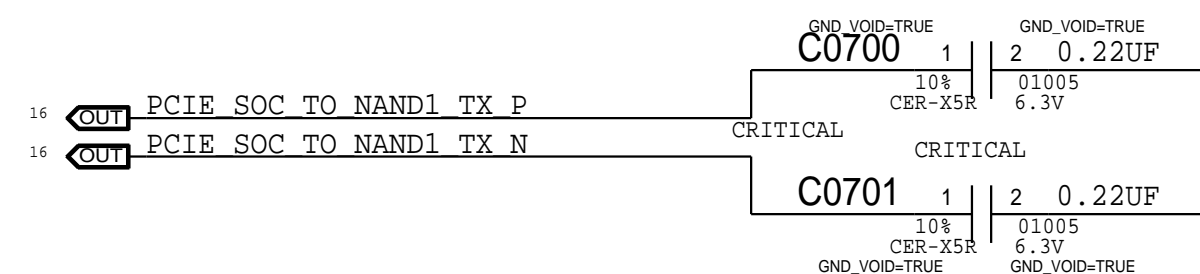
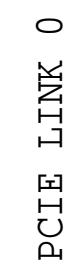
D

C

B

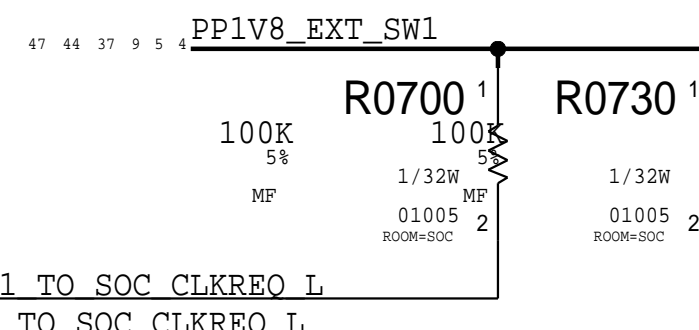
A

SOC - PCIe

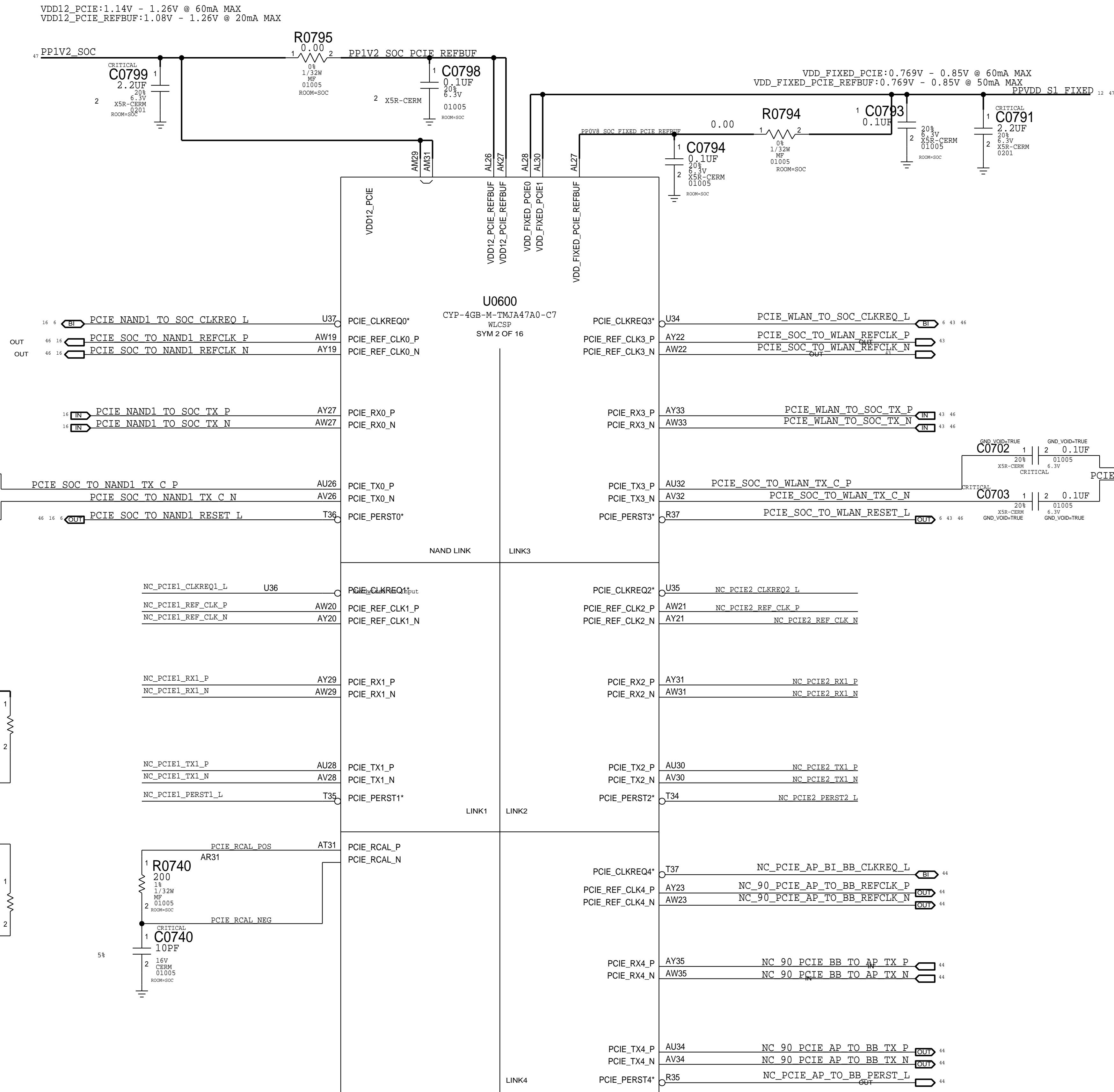
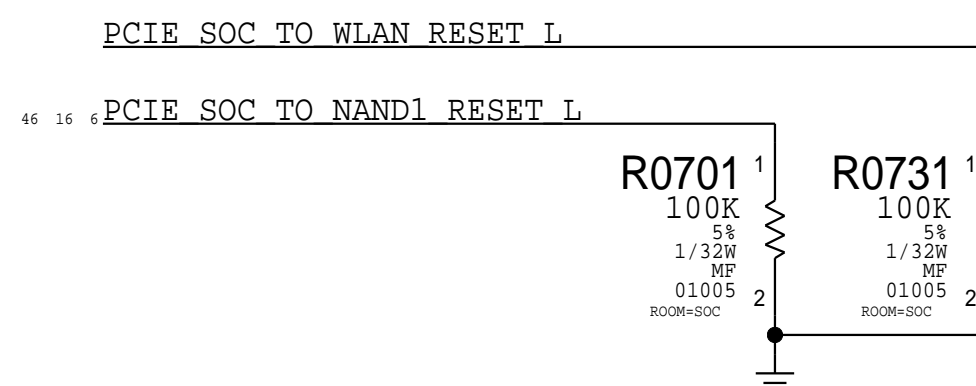


PCIE BB CLKREQ PU on BB domain

PCIE Clock Request Pull-Ups



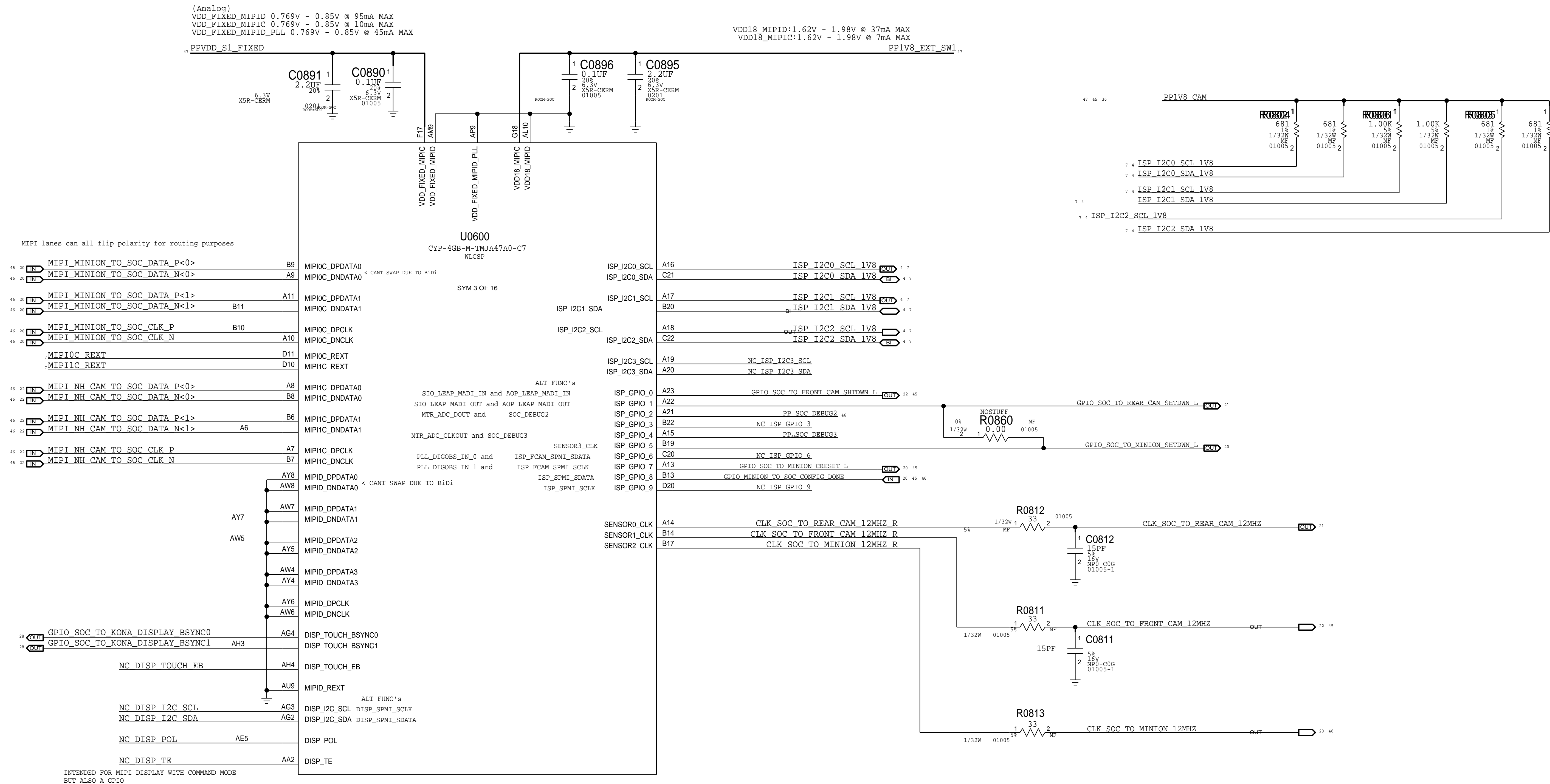
PCIe Reset Pull-Downs



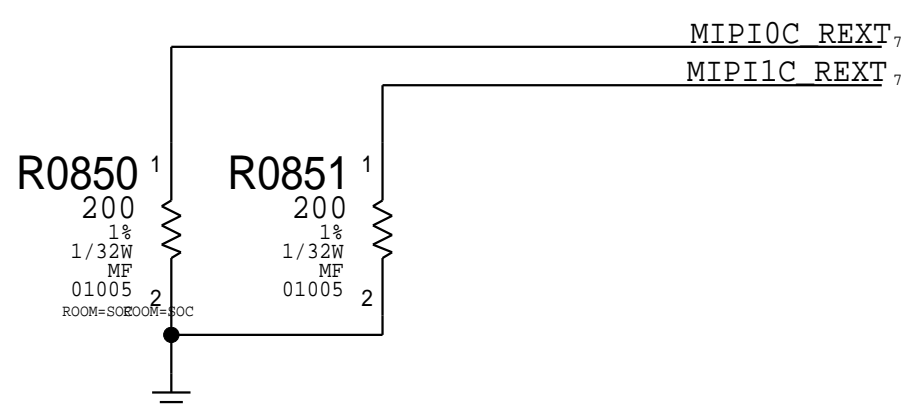
PCTE: I.TNK 3

4
2
4
4
4
4
4
4
)
4

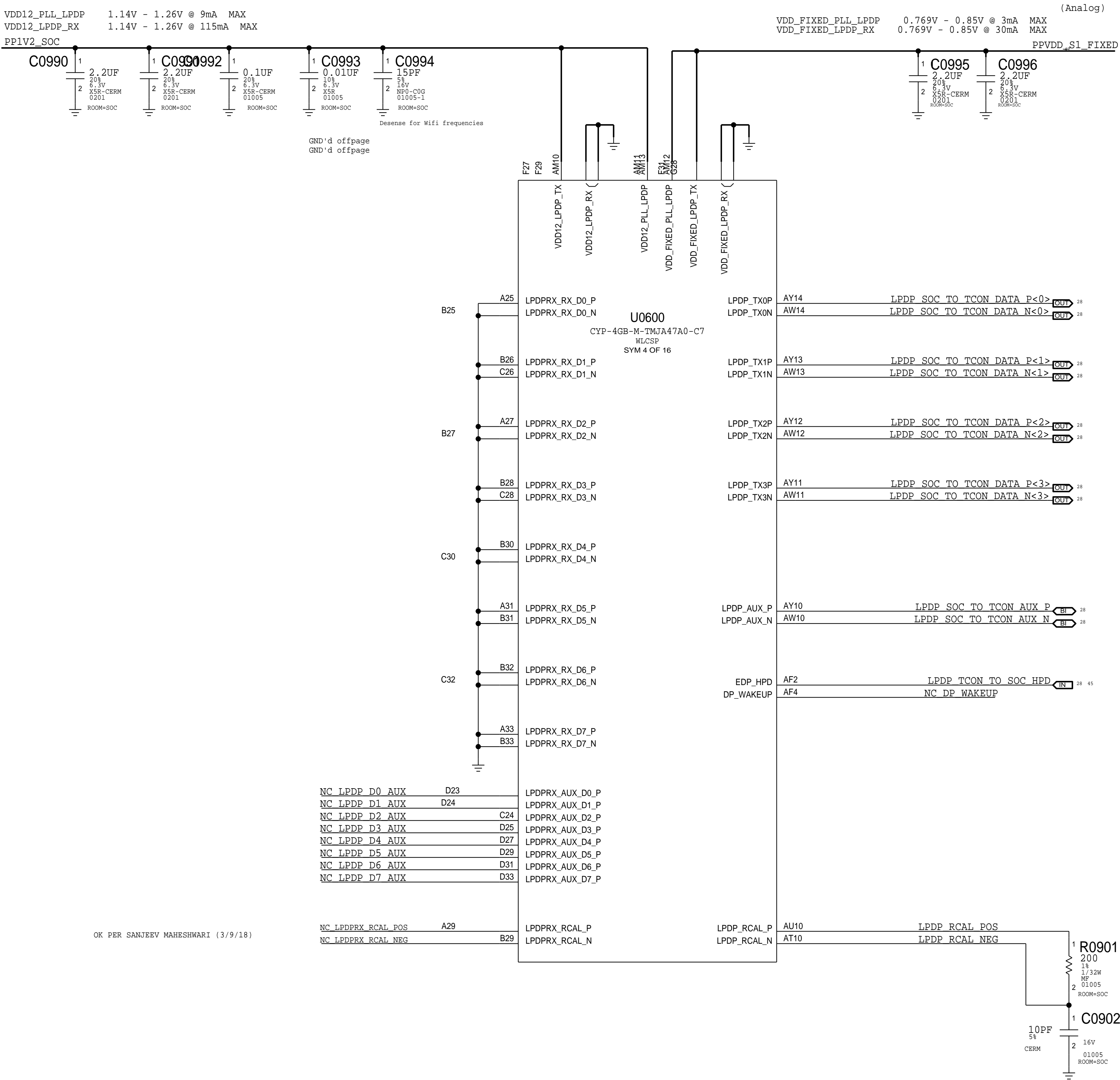
SOC - MIPI



MIPI Reference



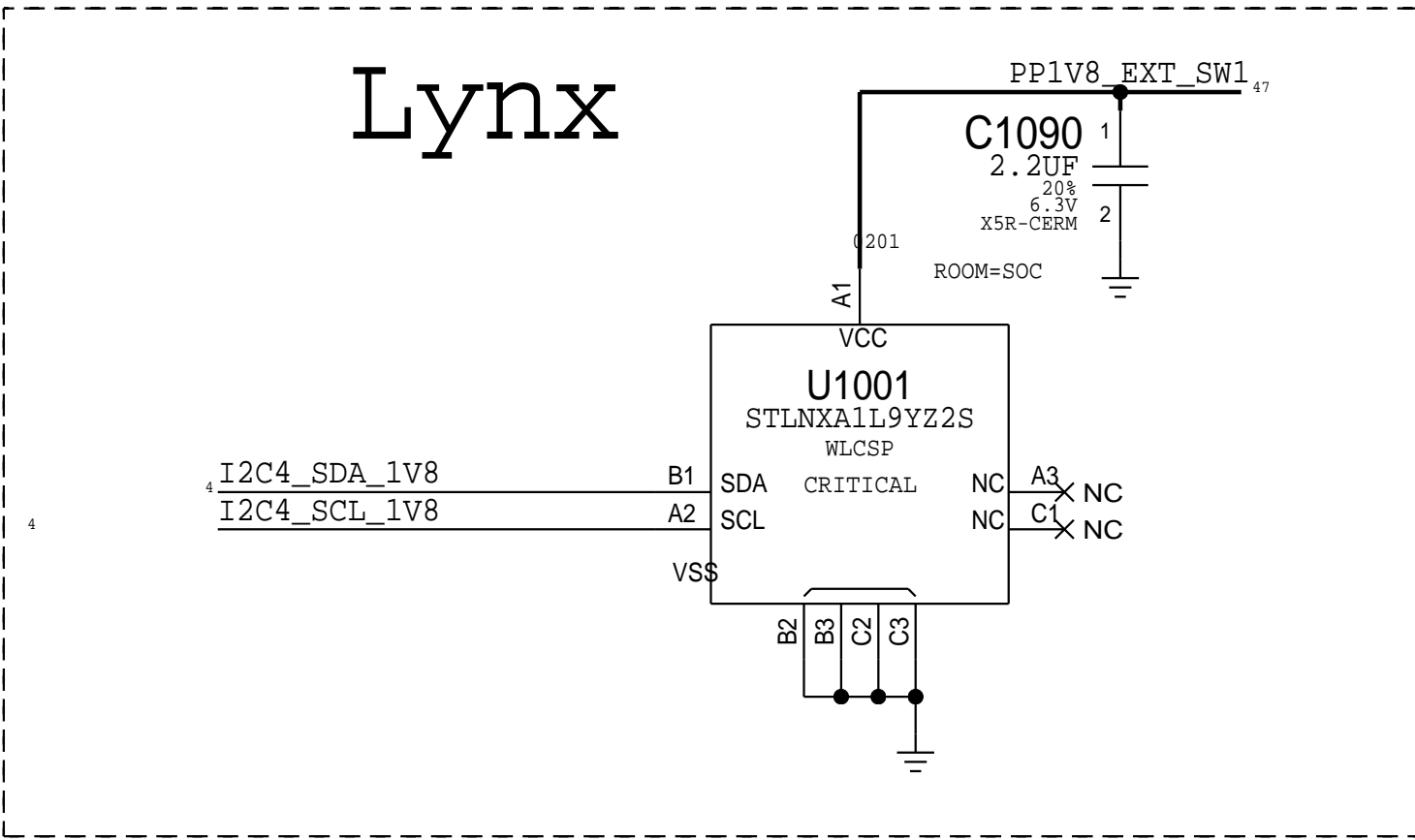
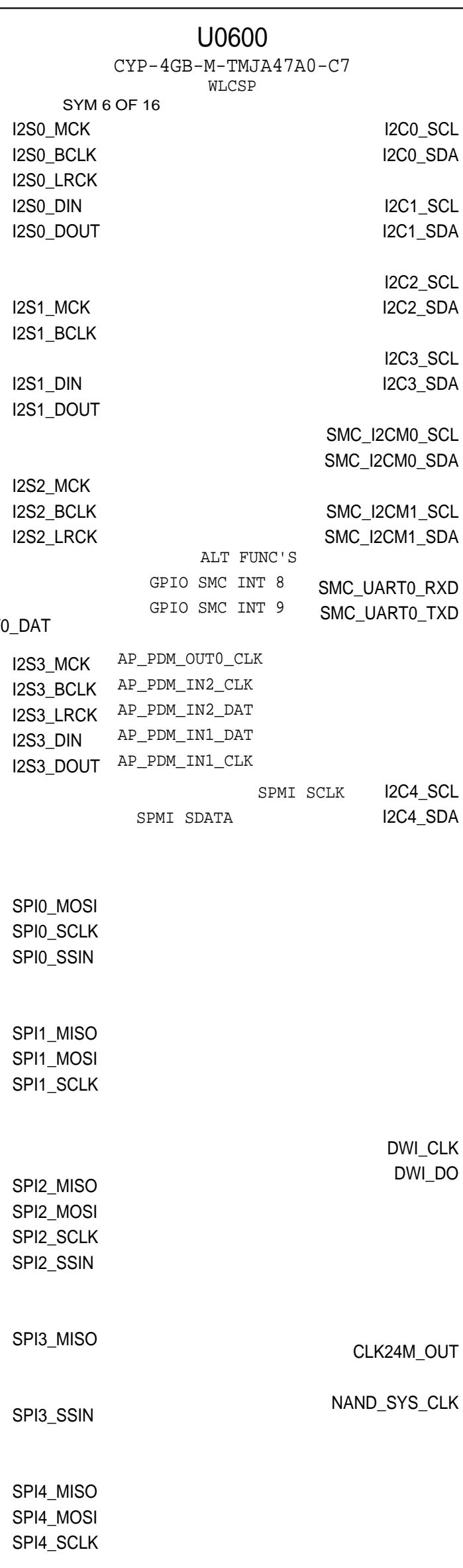
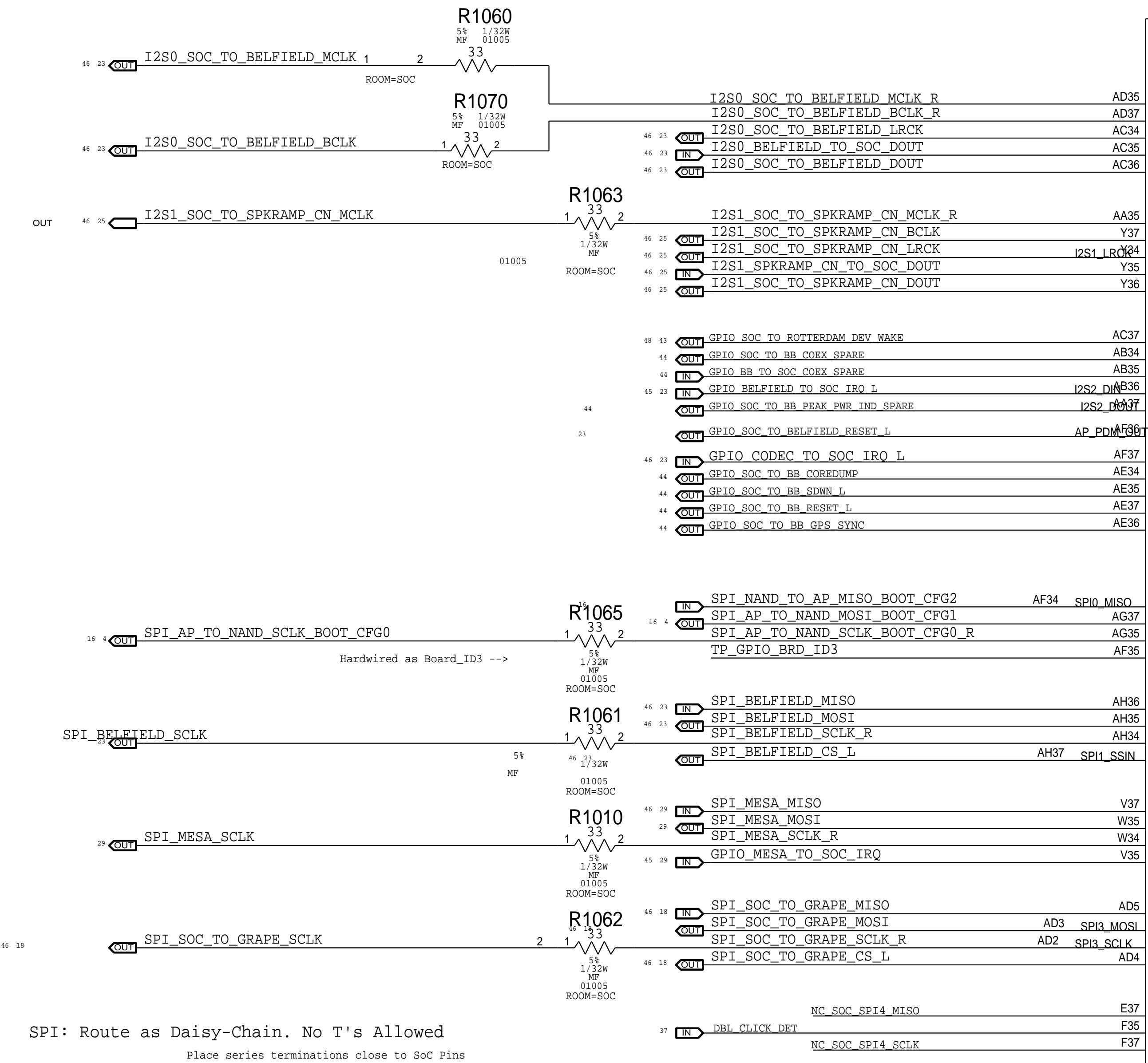
SOC - LPDP



SOC - SERIAL INTERFACES

D

D



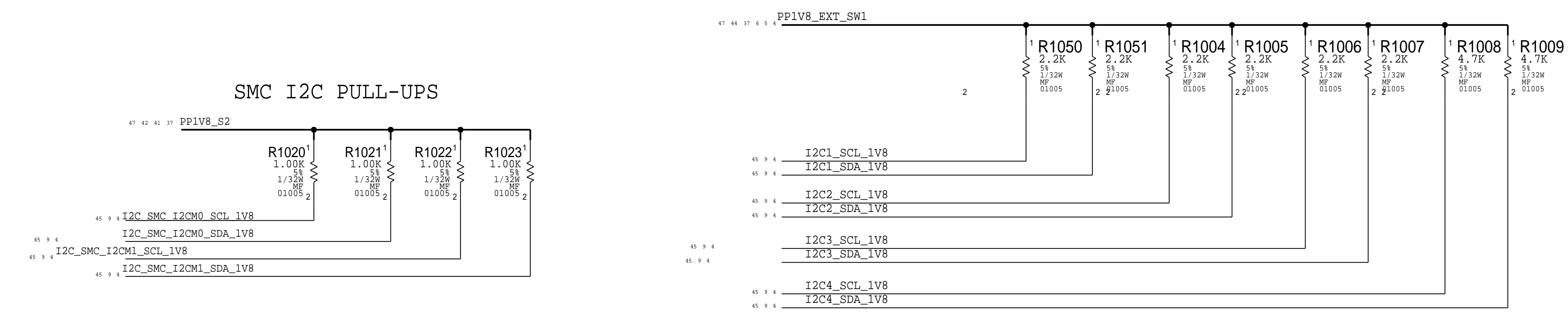
B

B

SPI: Route as Daisy-Chain. No T's Allowed
Place series terminations close to SoC Pins

A

A



PAGE TITLE		
SOC: SERIAL		

D



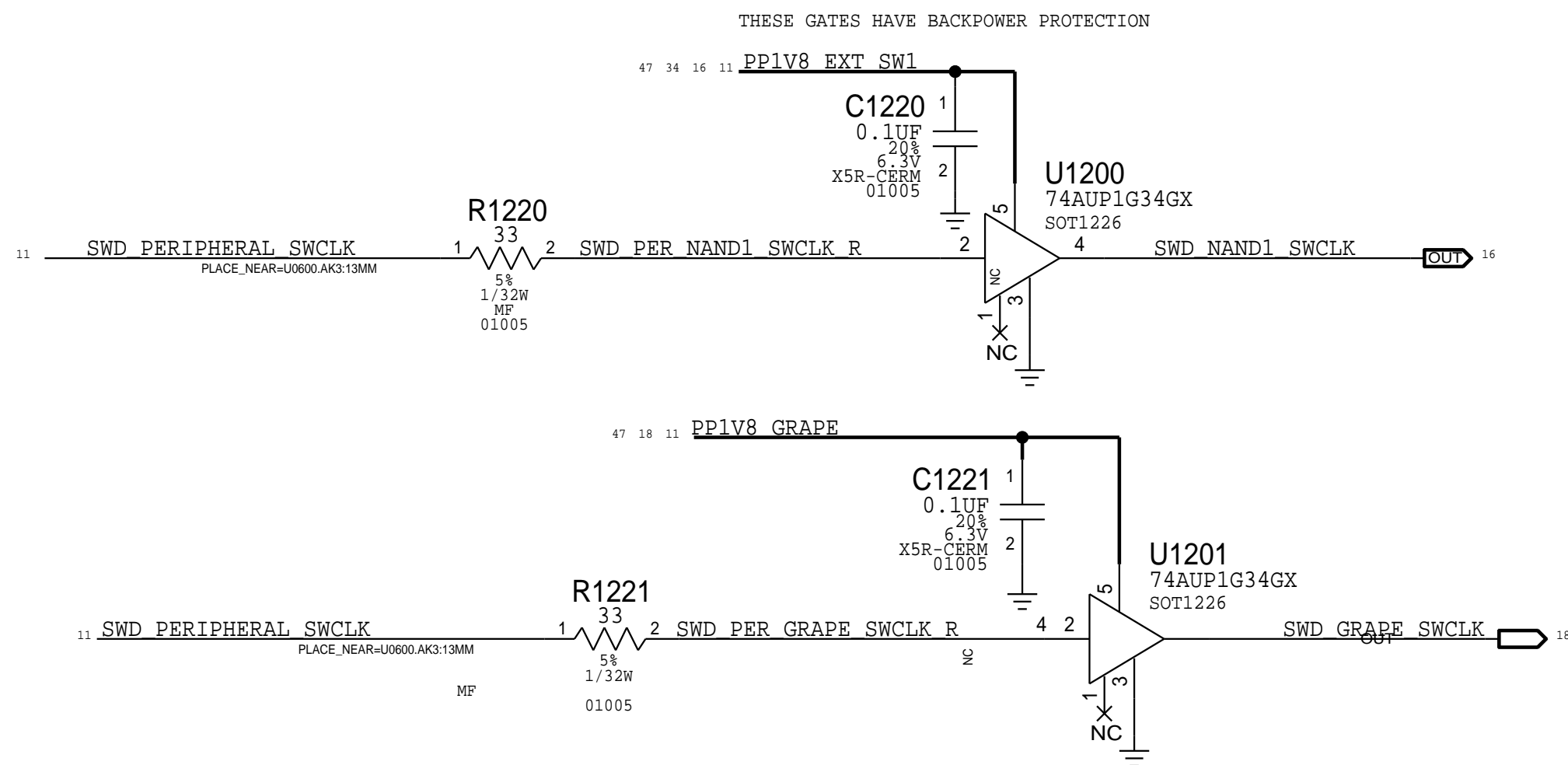
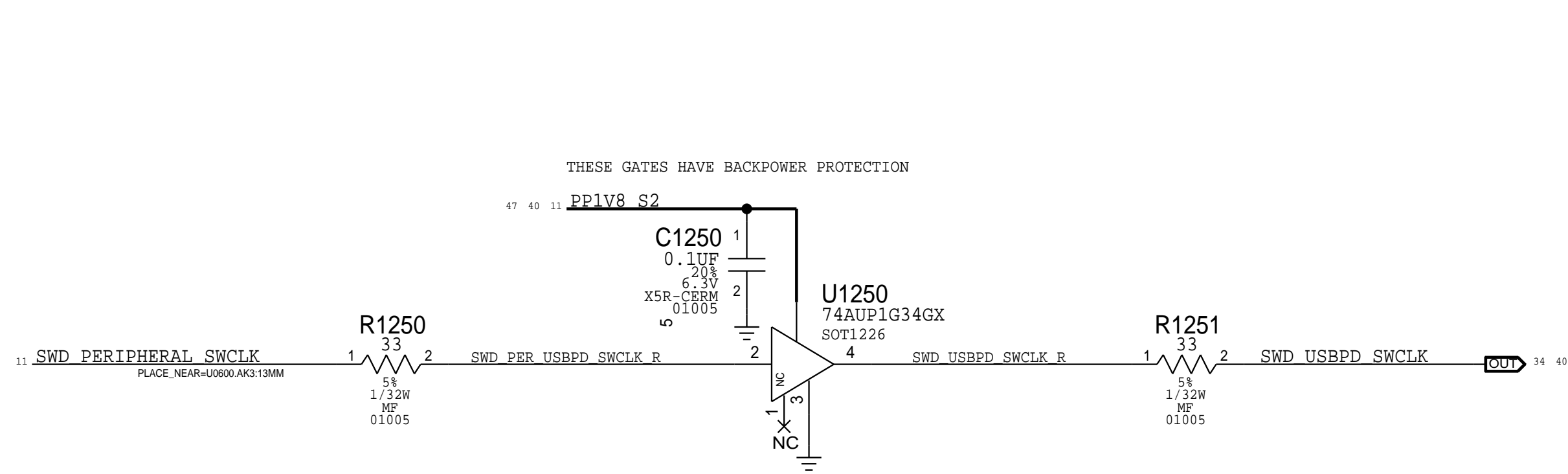
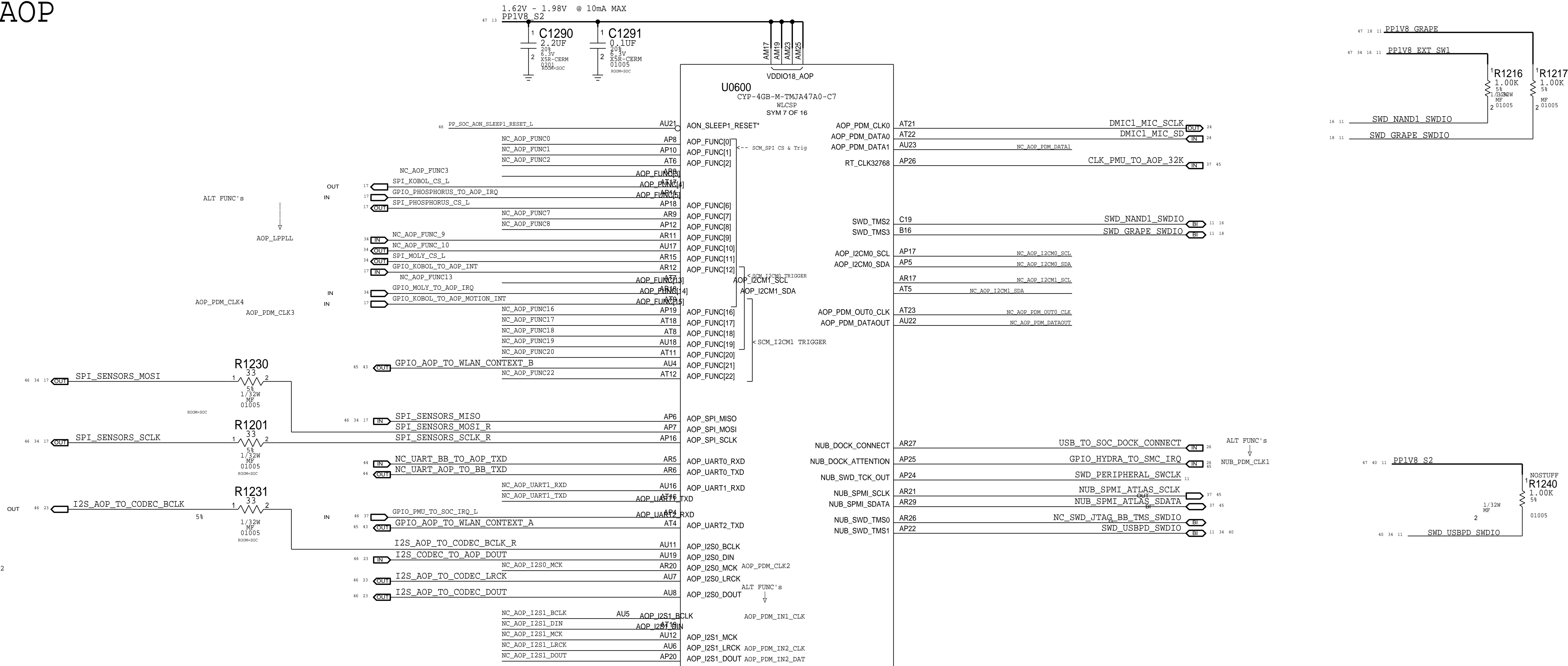
B

B

A

A

SOC - AOP

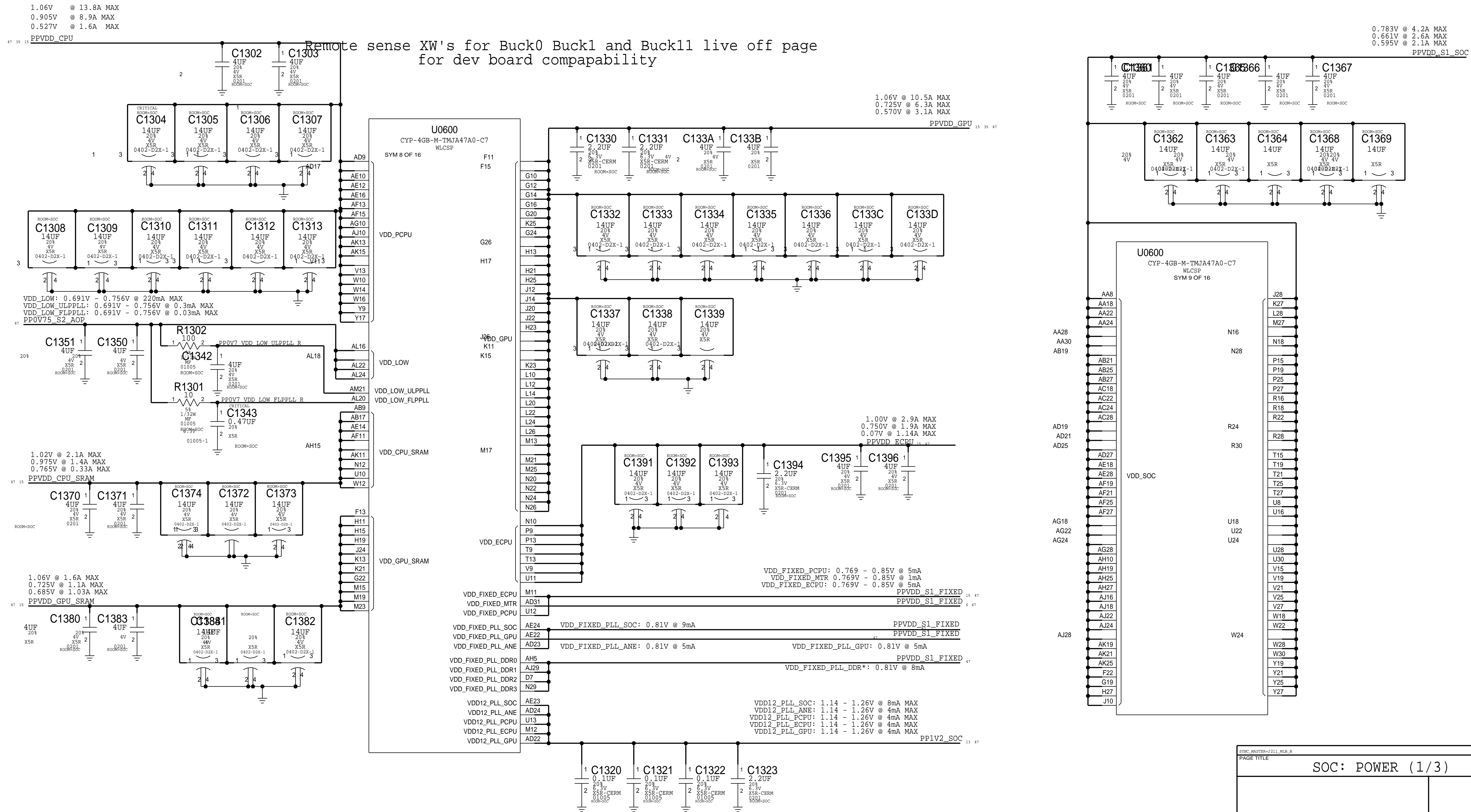


SYNC_MASTER=7211_MCB_B

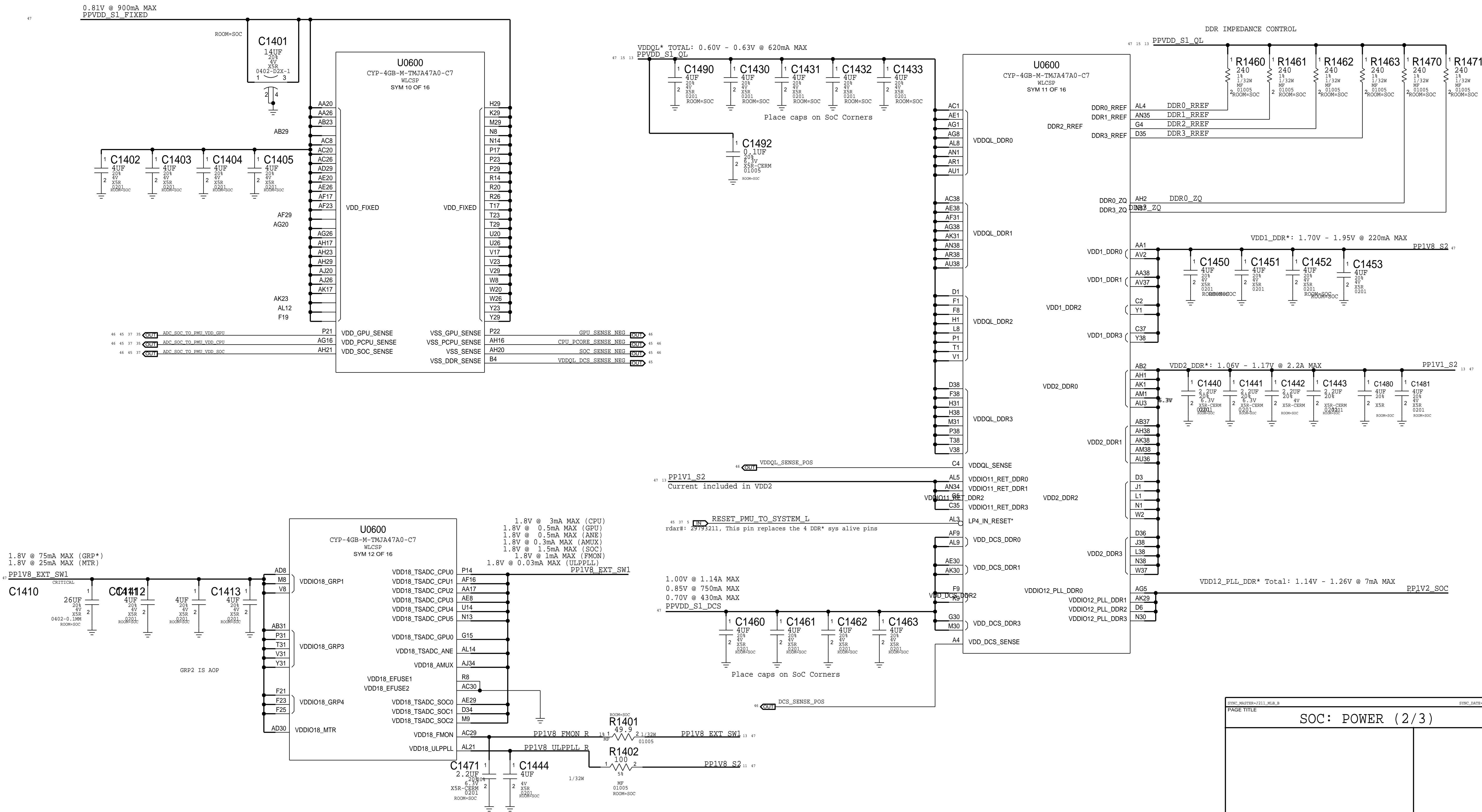
PAGE TITLE

SOC: AOP

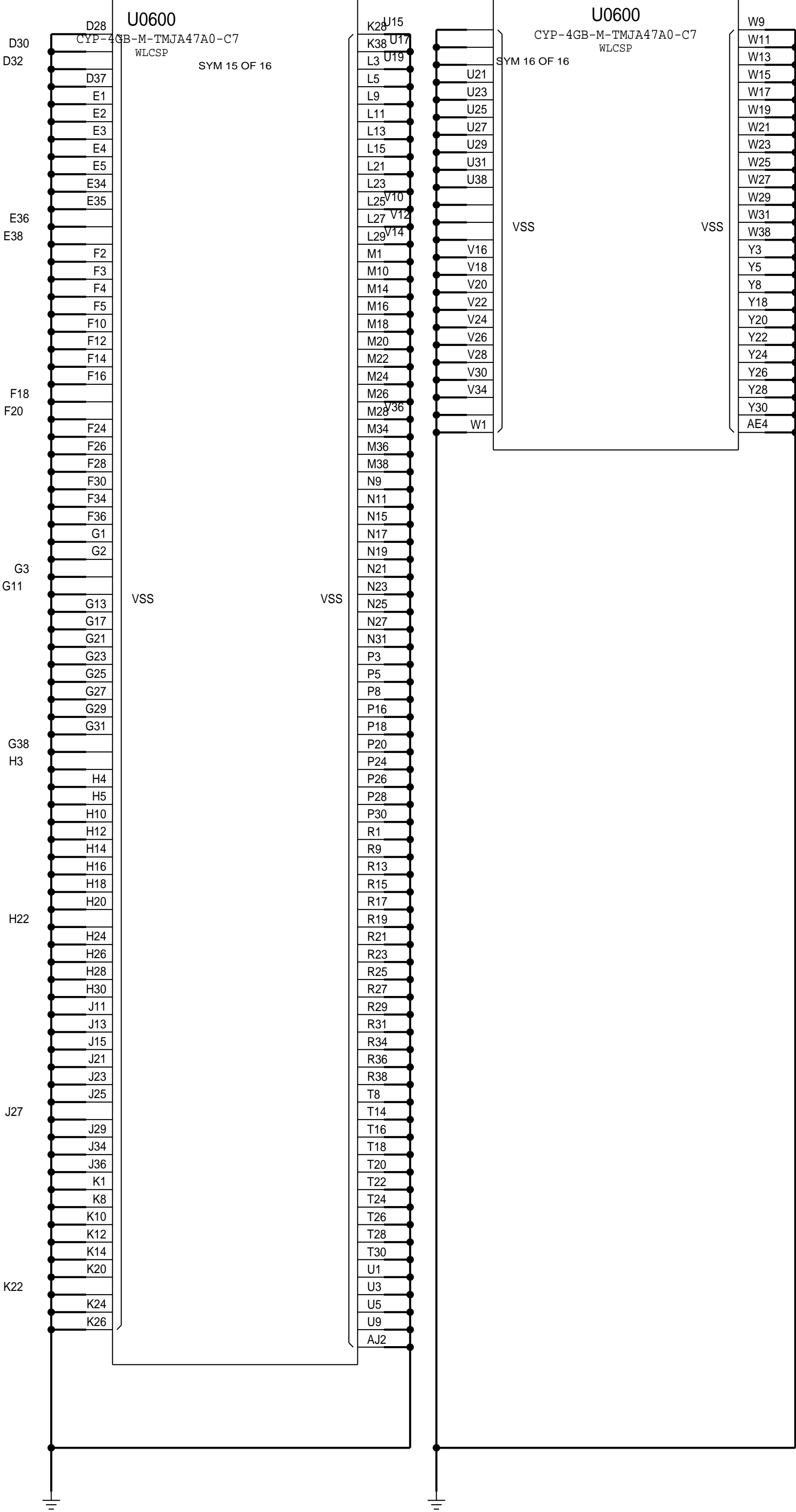
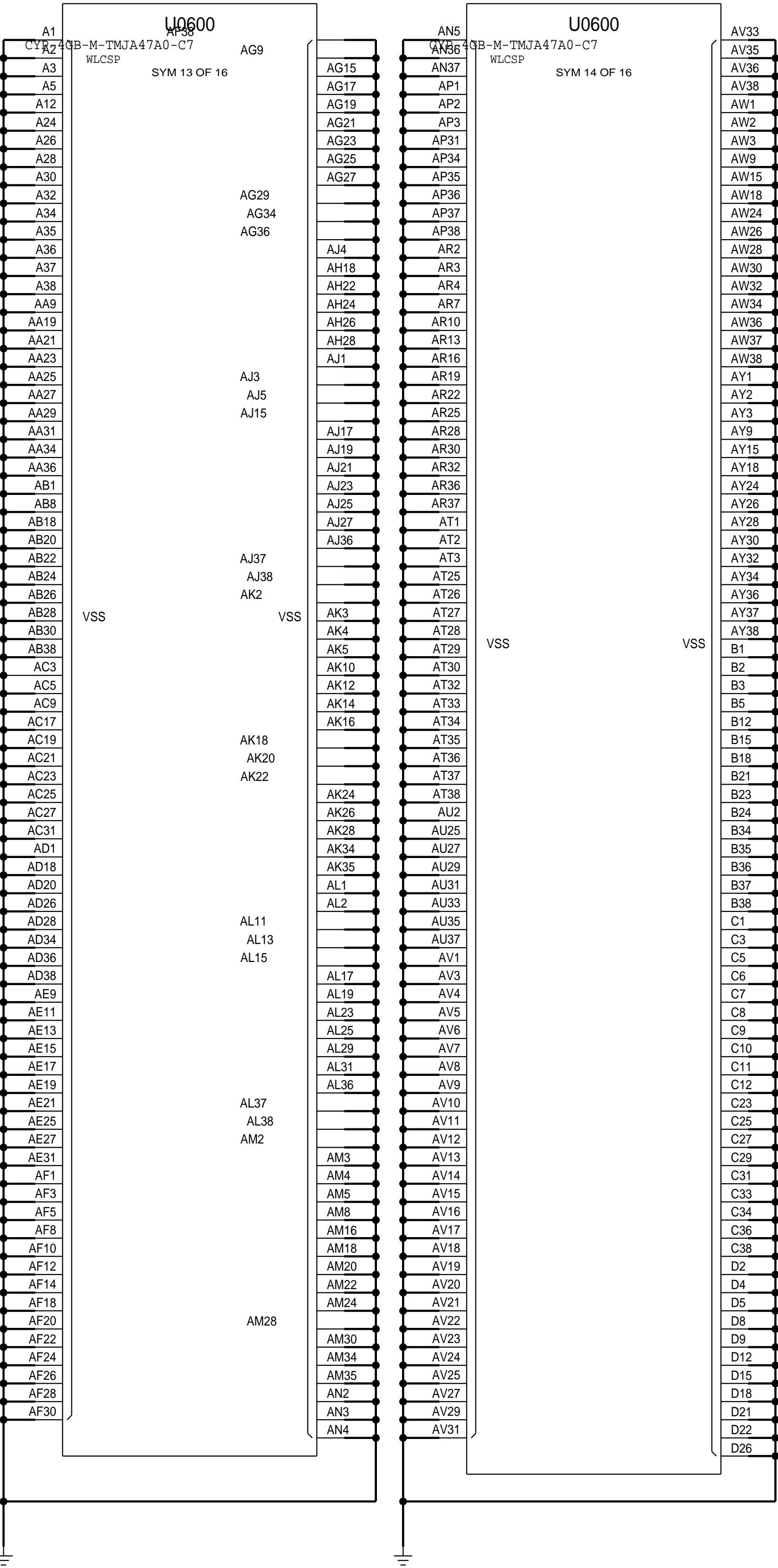
SOC - CPU, GPU & SOC RAILS



SOC - CPU, GPU & SOC RAILS



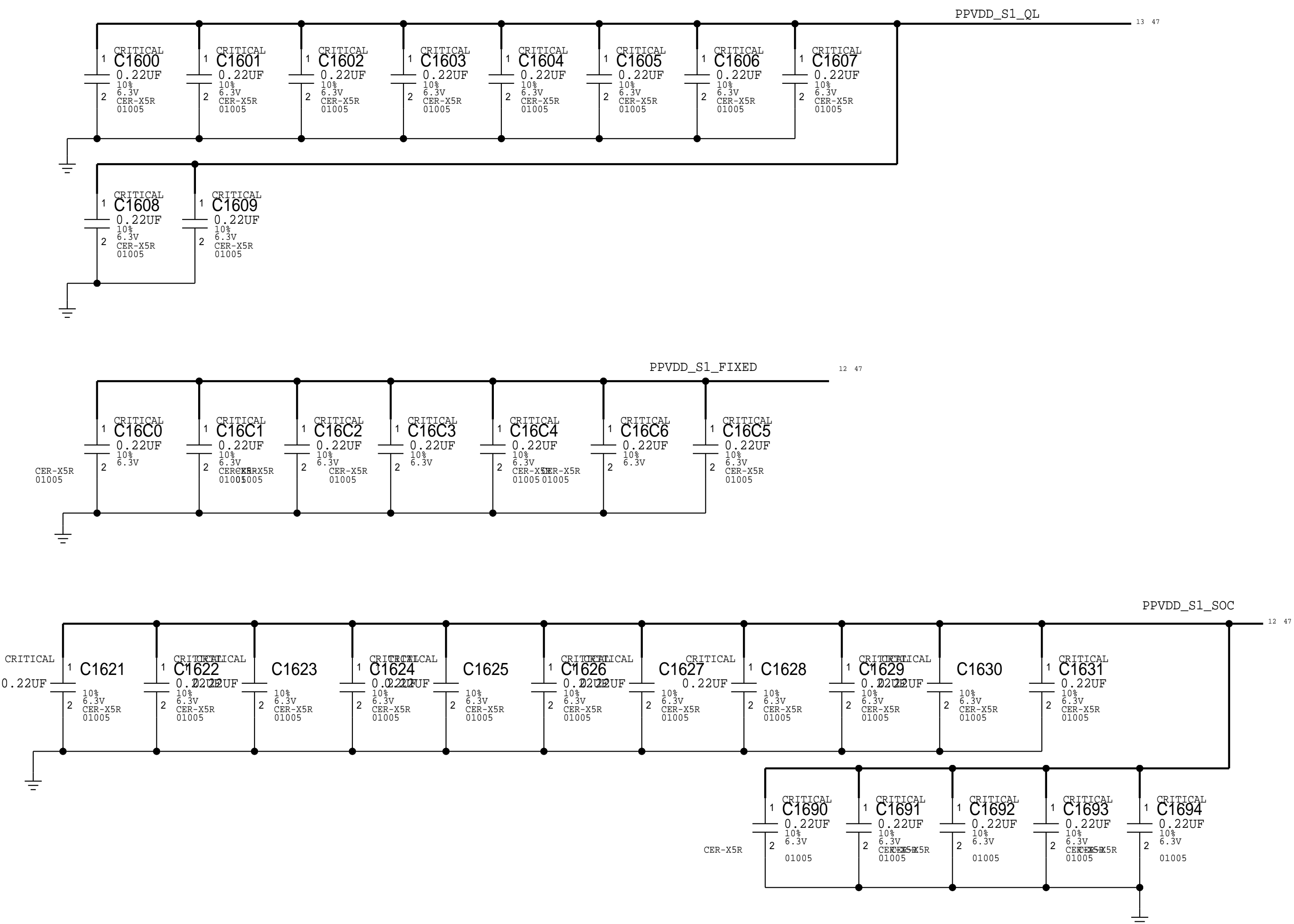
SOC - POWER SUPPLIES



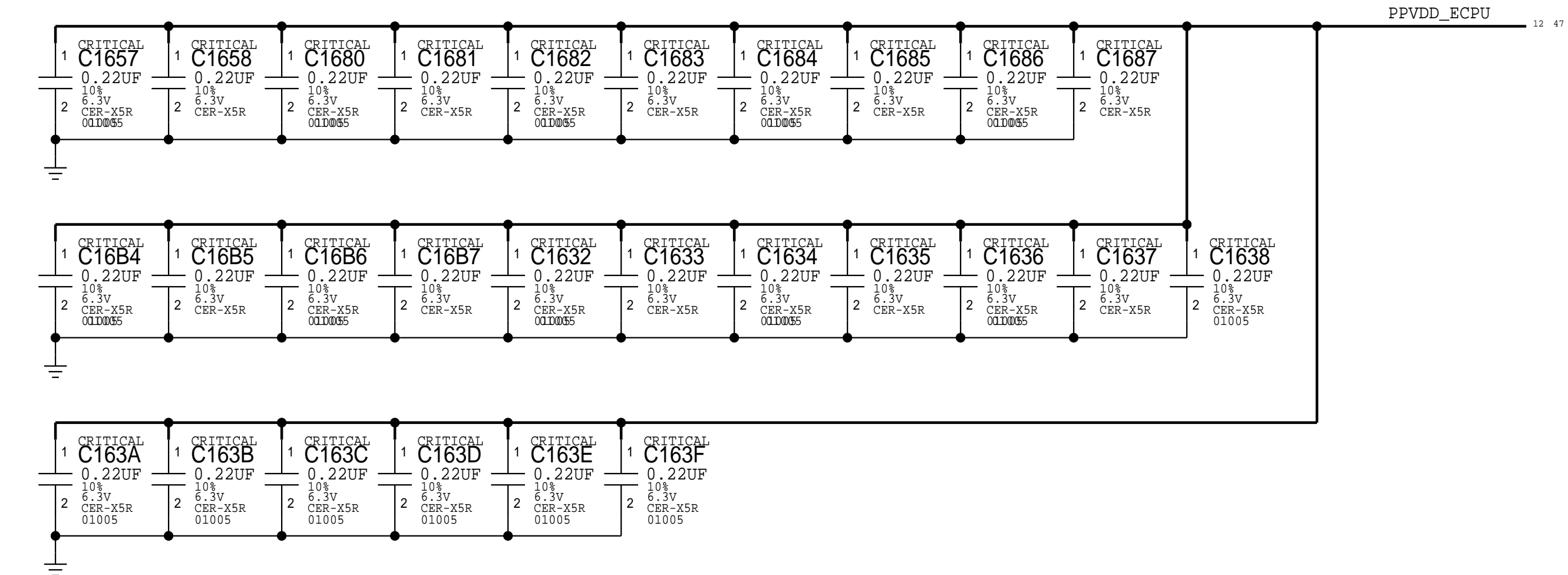
BOTTOM SIDE SOC CAPS

0.1UF = 132S00238 (0201, 0.11MM)

D

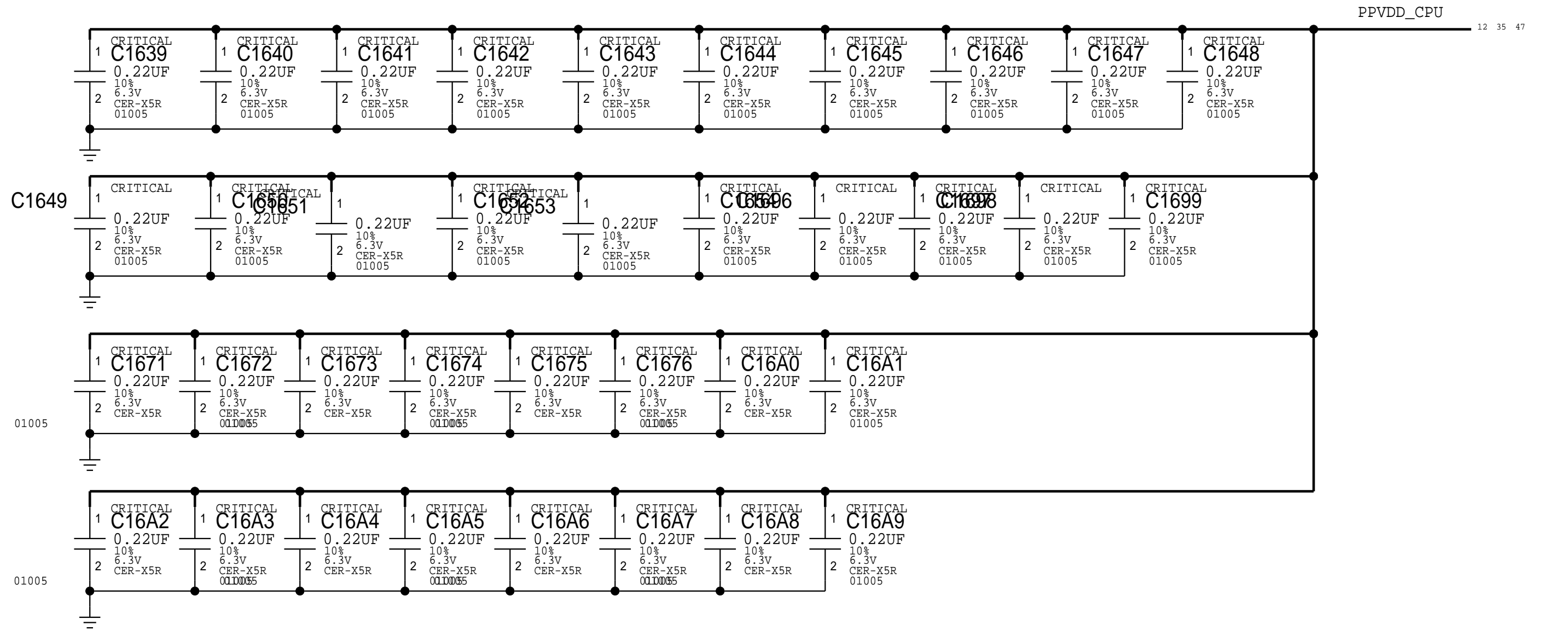


B

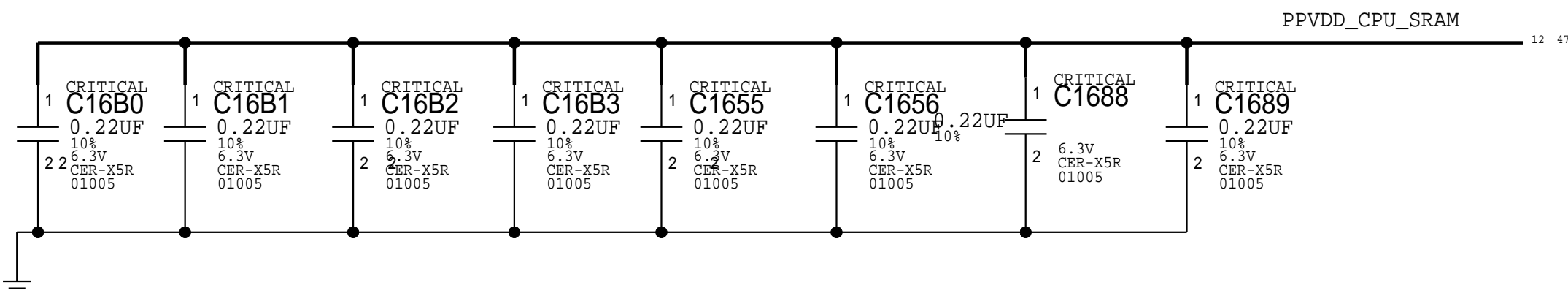


A

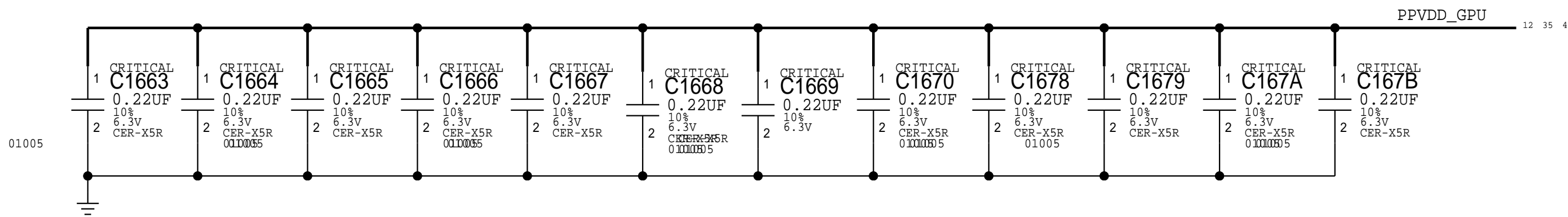
D



C



B



A

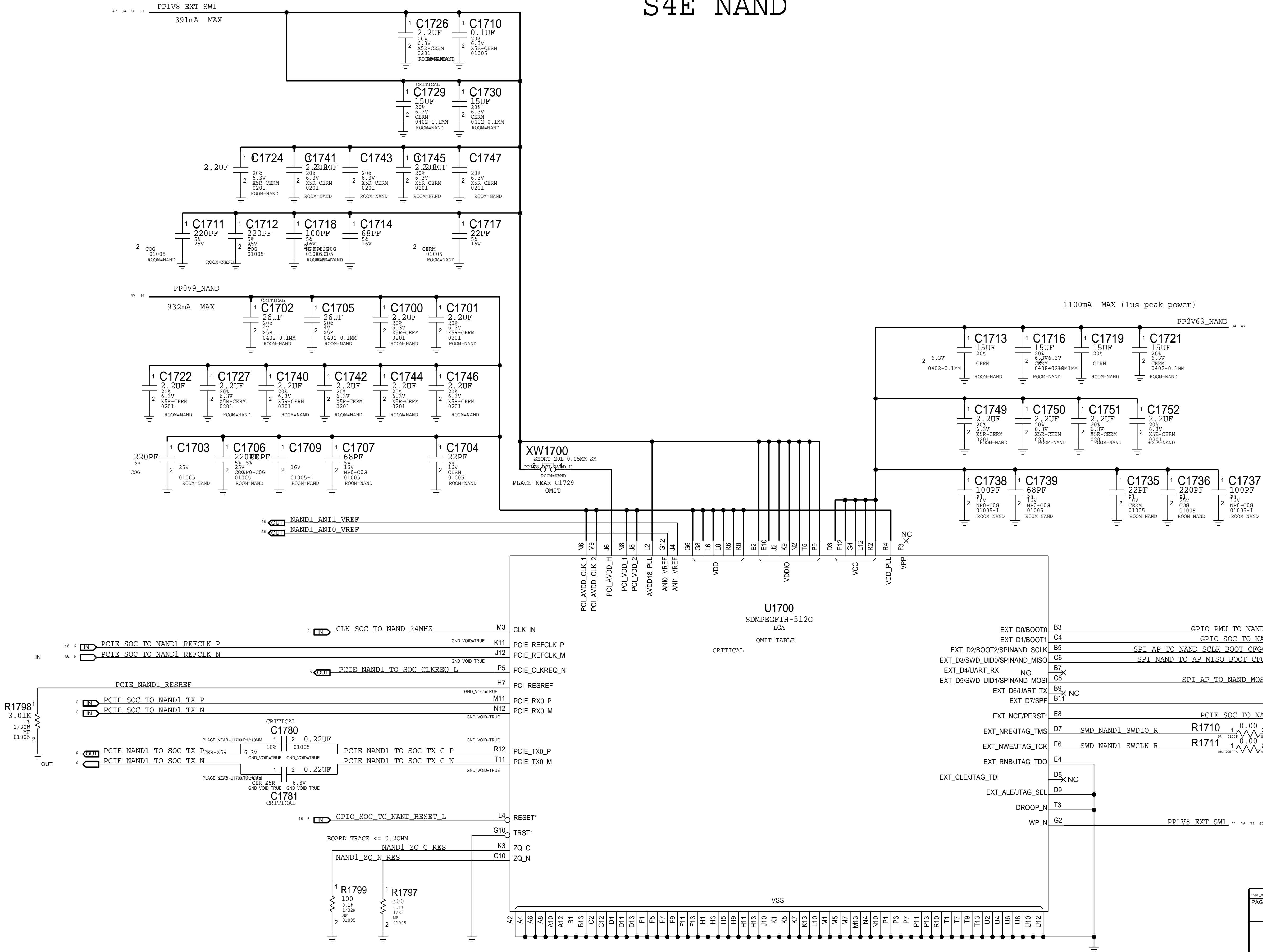
SYNCH: PARTNER+2211_2024_38

SYNCH: DATE=09/10/2018

PAGE TITLE

SOC: BOTTOM SIDE DECAPS

S4E NAND



PAGE TITLE	
NAND: S4E NAND	

D

D

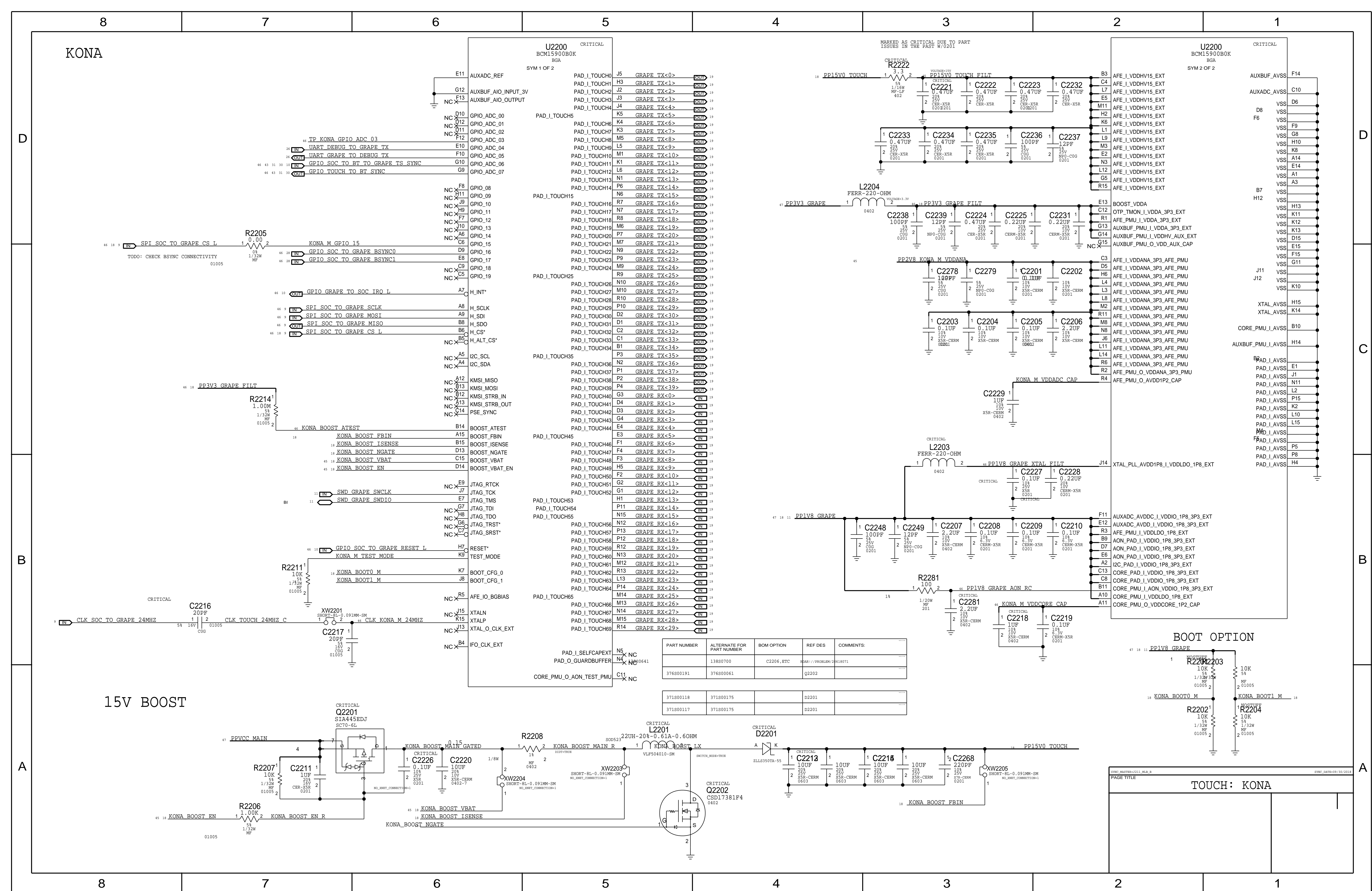
C



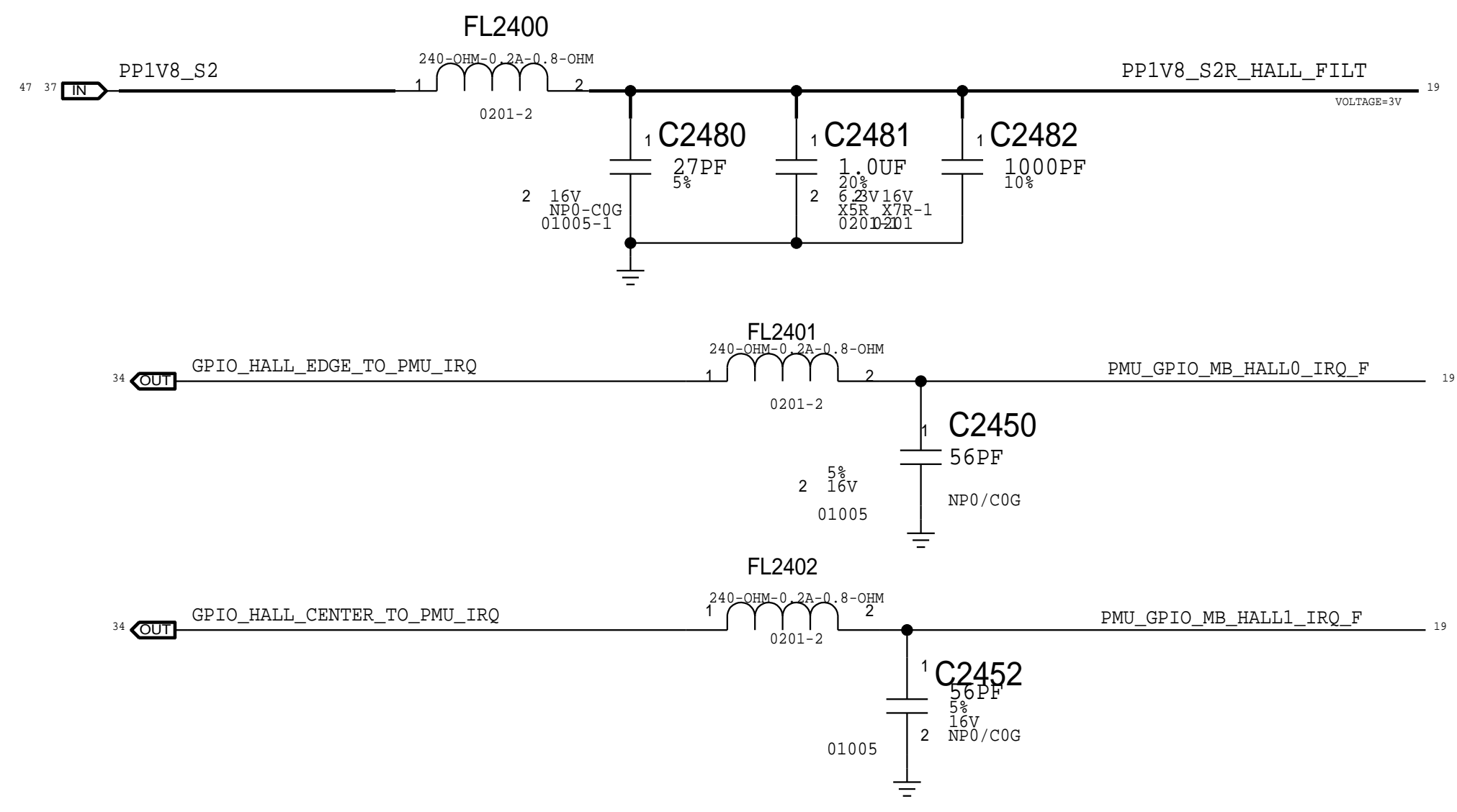
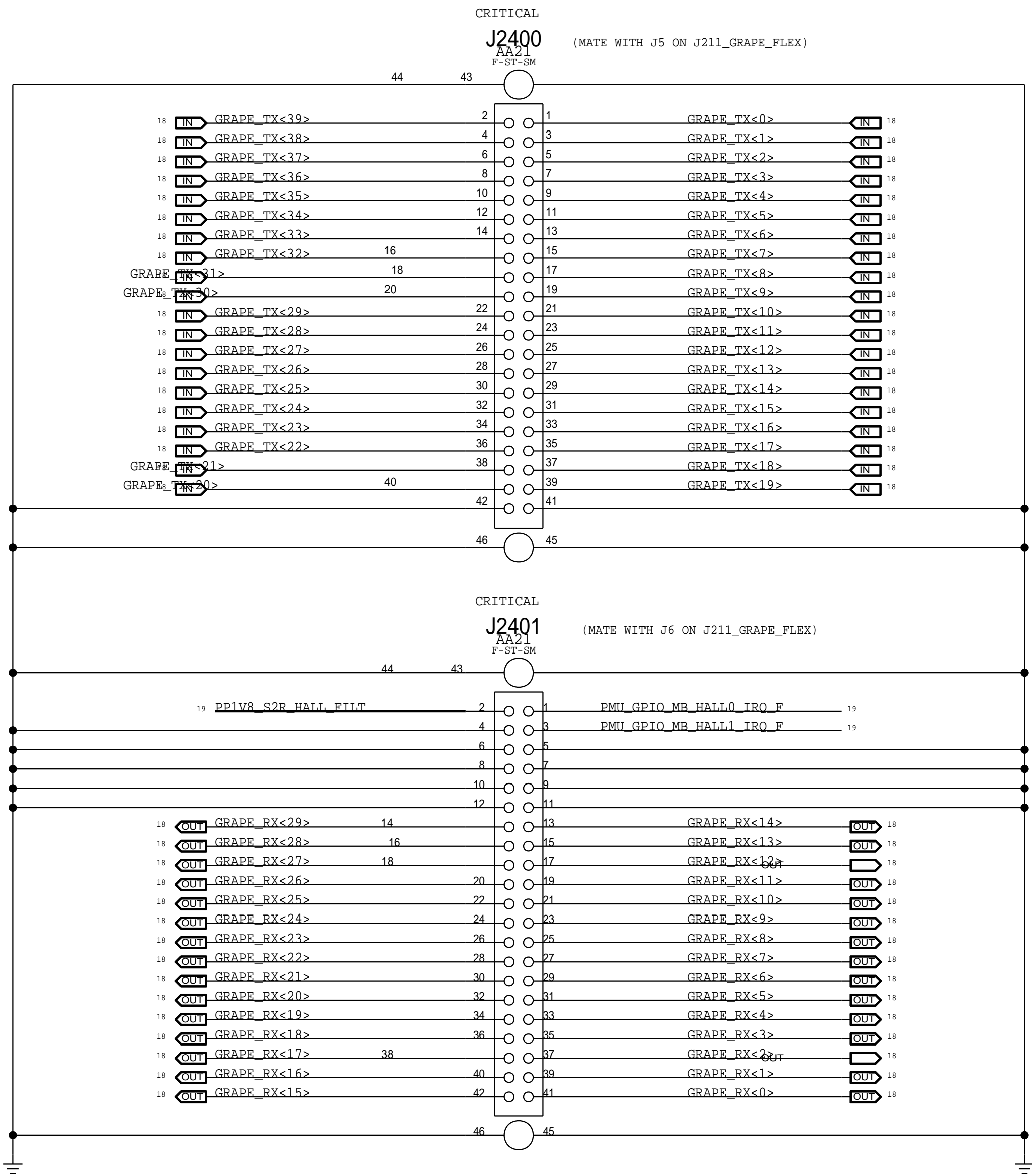
A

SYNO_MASTER=7211_HLR_3	SYNO_DATE=09/30/2013
PAGE TITLE	





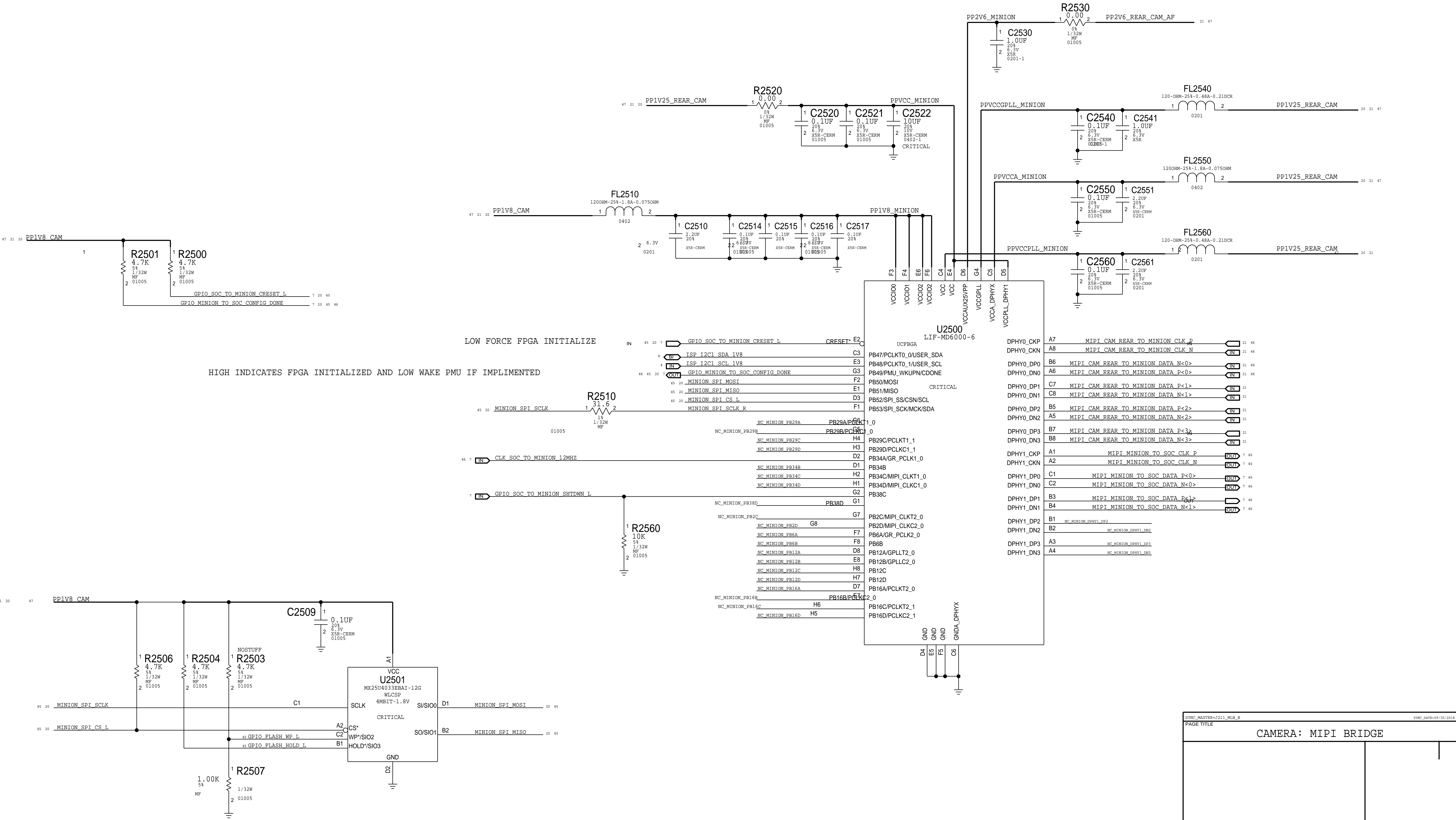
TOUCH CONNECTOR



SYMC_MASTER=J211_MGR_B		SYMC_DATE=09/10/2018	
PAGE TITLE		TOUCH: GRAPE CONN	

MINION

VCCIO: NOM 1.8V
VCC: NOM 1.2V (1.25V CAMERA RAIL IS ACCEPTABLE)
VCCAUX: NOM 2.5V (2.6V CAMERA RAIL IS ACCEPTABLE)

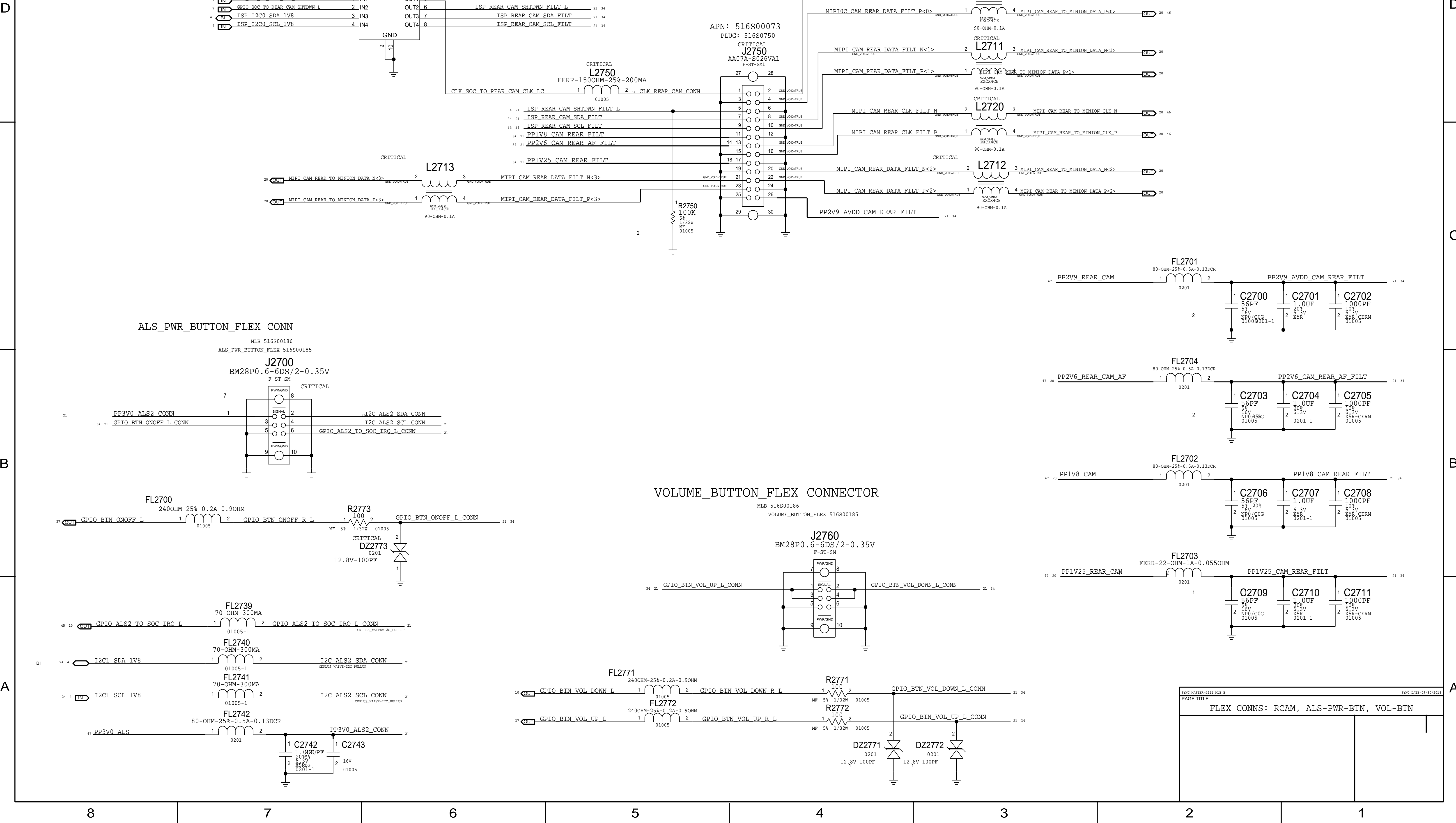


SYNC_MASTER=J211_MLB_B		SYNC_DATE=09/10/2018	
PAGE TITLE		CAMERA: MIPI BRIDGE	

D

B

A



D

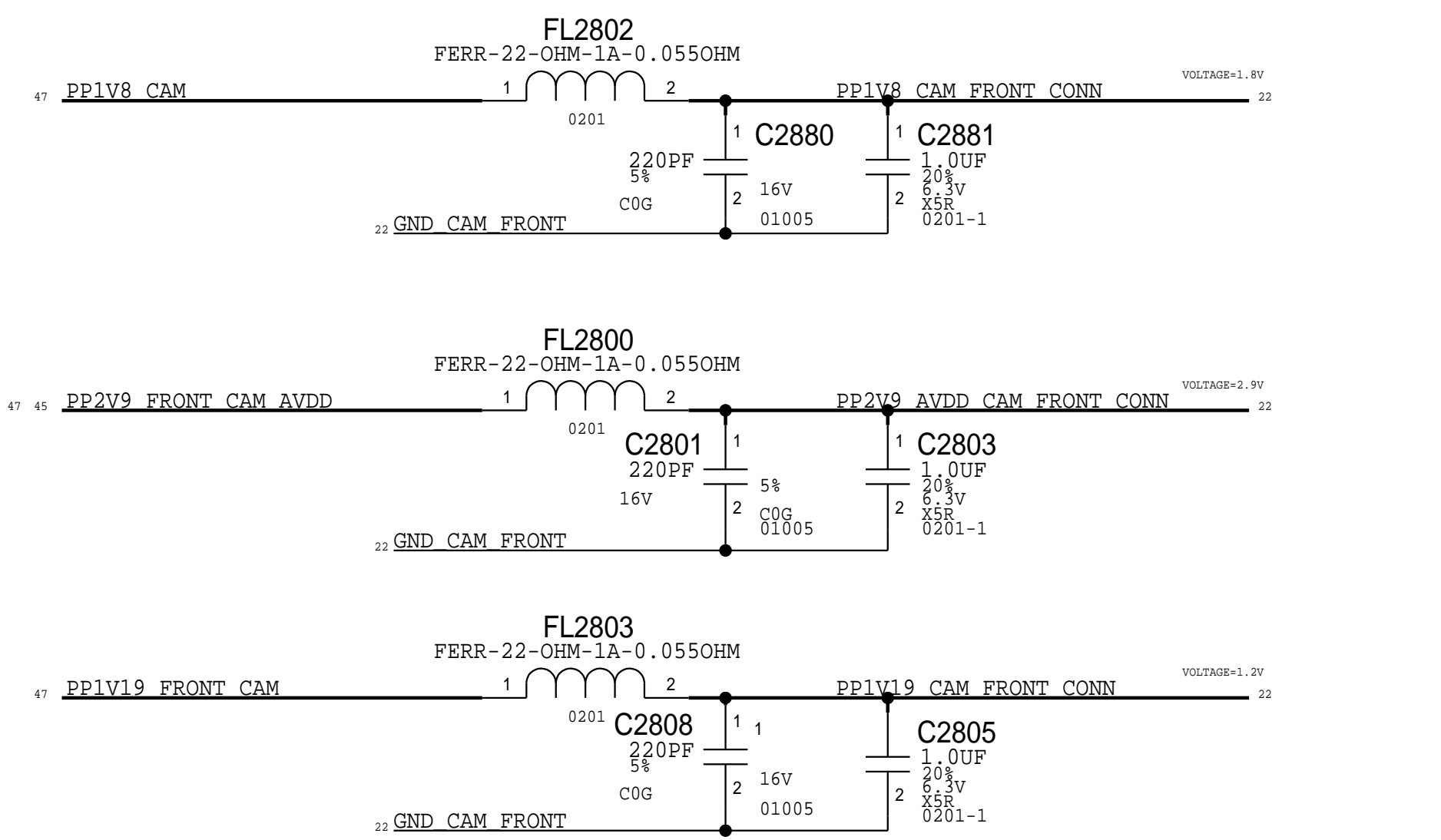
C

B

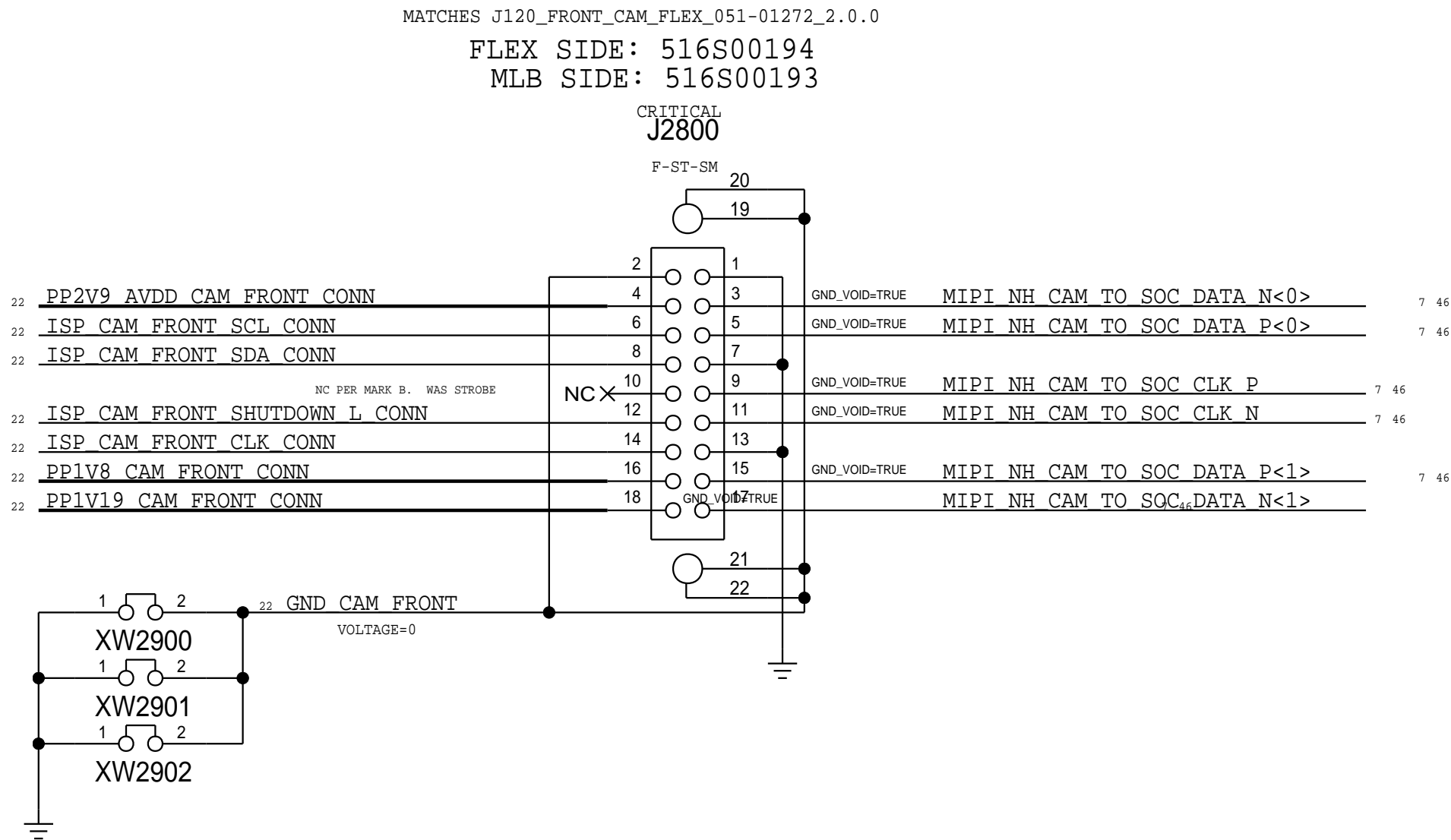
A

FRONT CAMERA (NH)

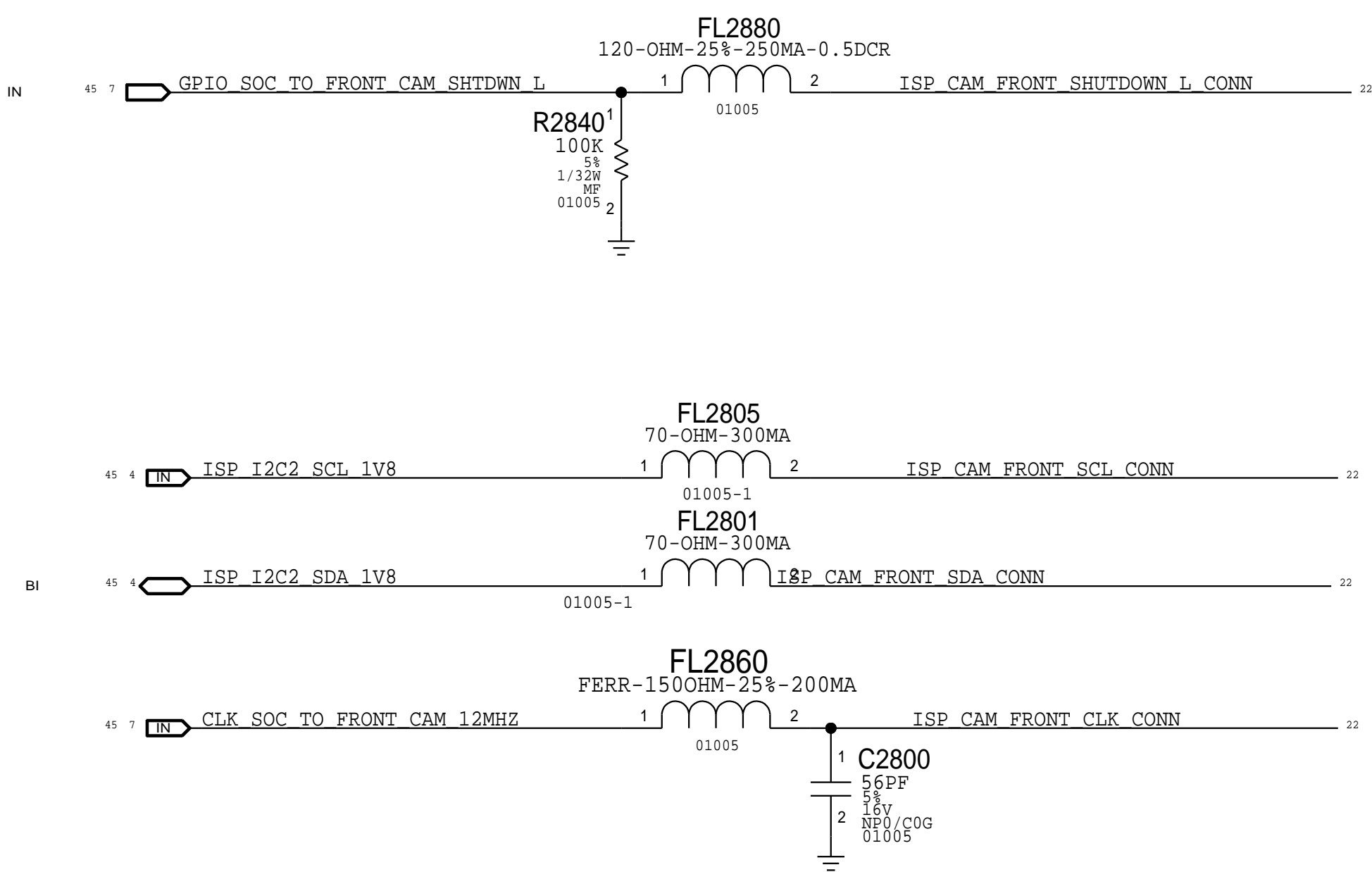
POWER FILTERS



FRONT CAMERA CONNECTOR



IO FILTERS



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:

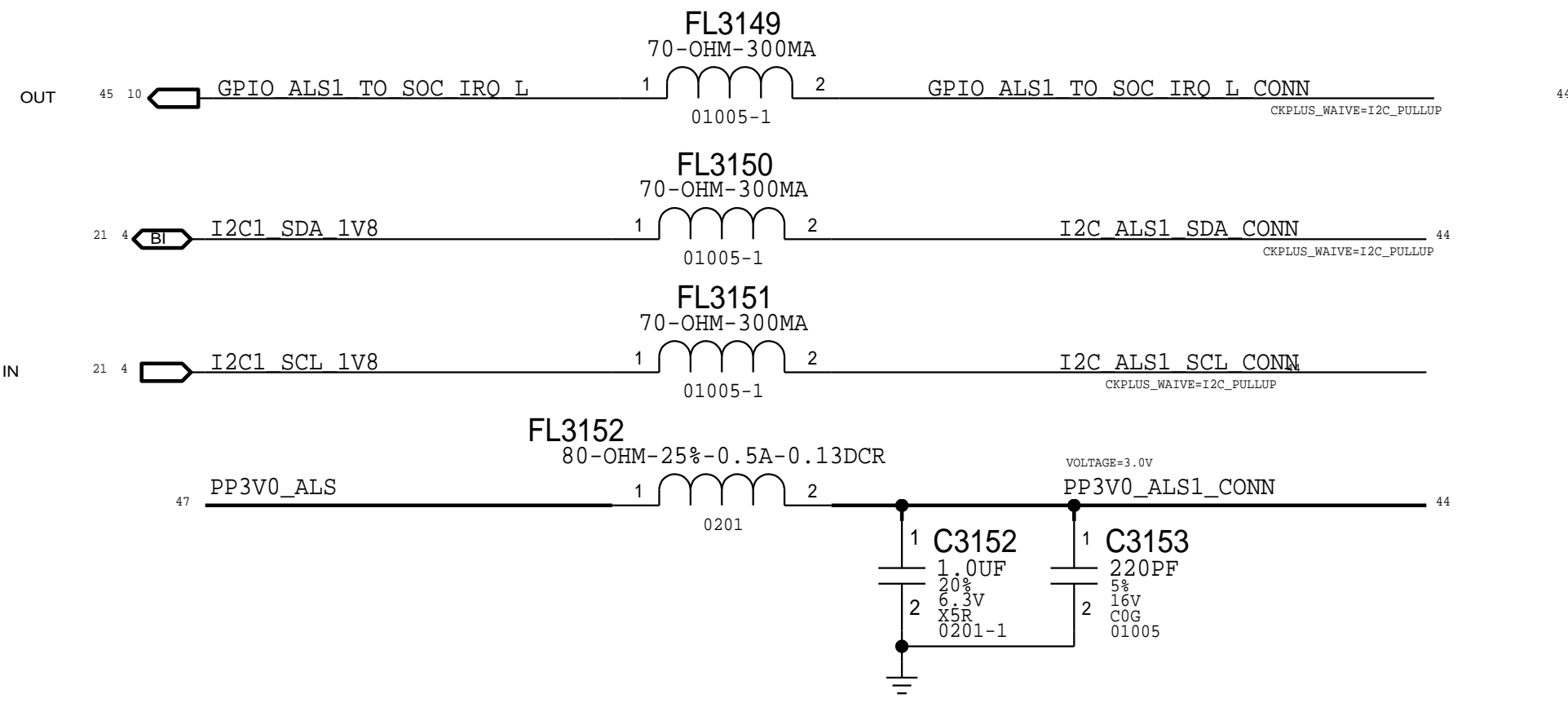
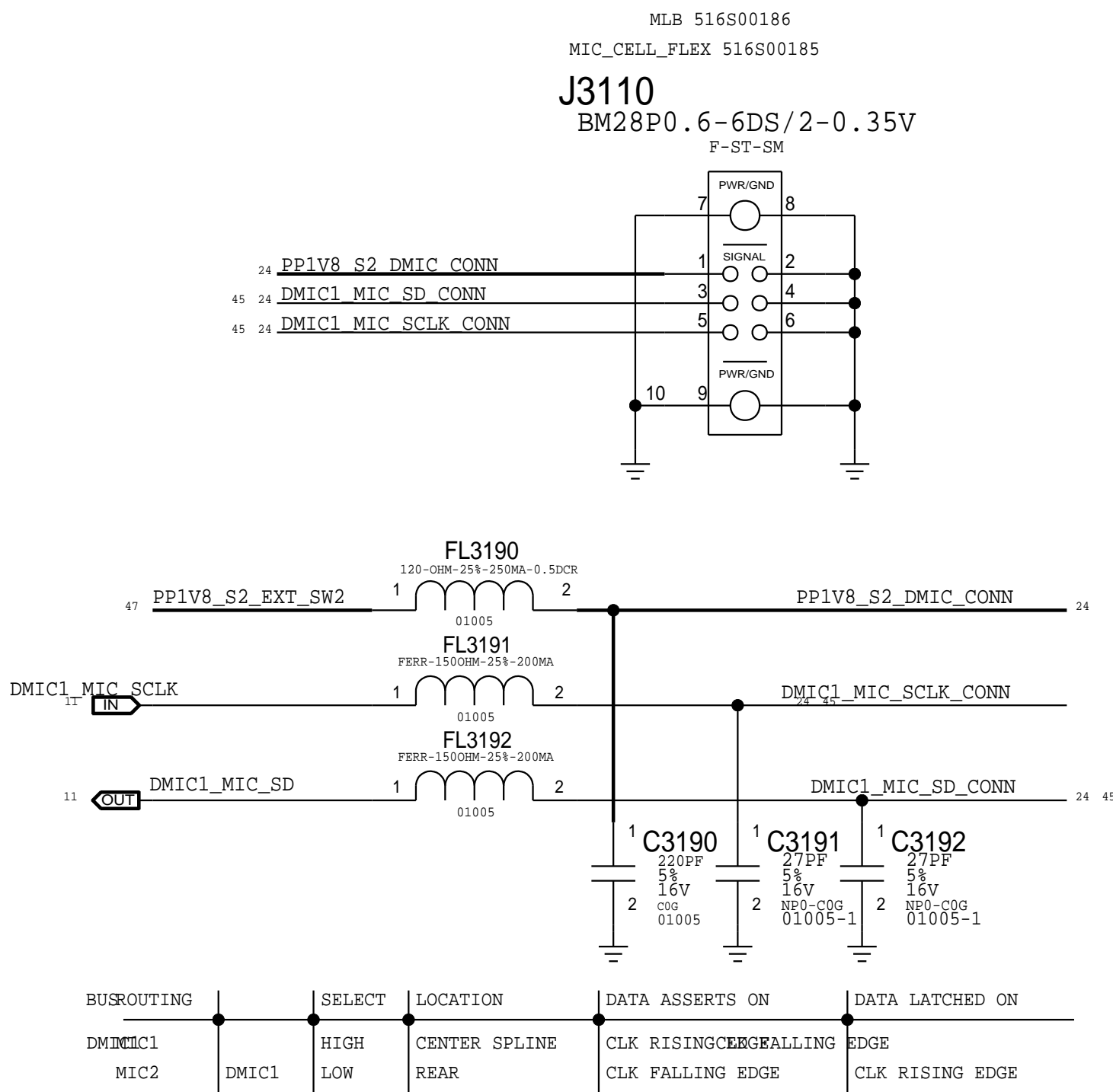
SYMC_MATTER=0211_MGA_B
SYMC_DATE=09/01/2018

PAGE TITLE

CAMERA: FRONT

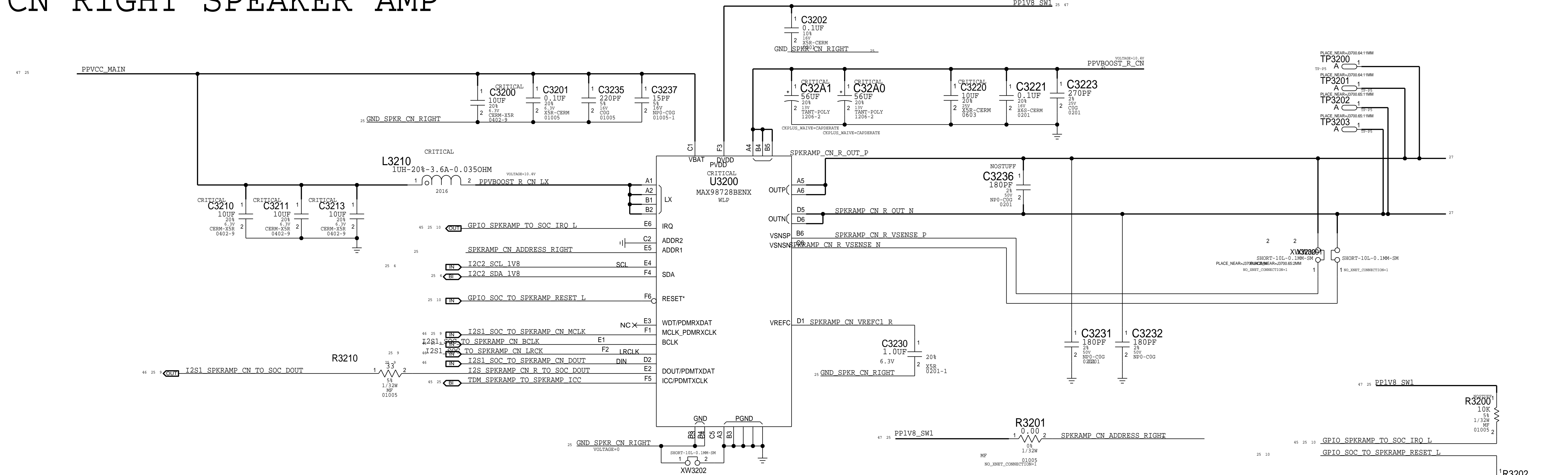
--	--

DMIC FLEX CONN & ALS1 FILTERS

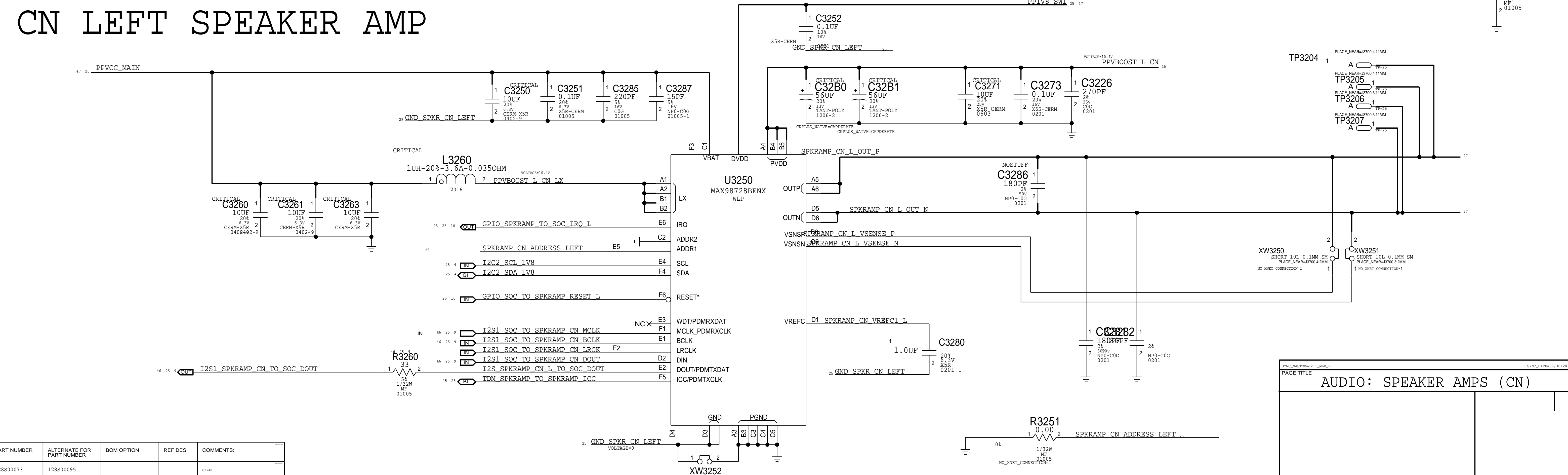


PAGE TITLE	
FLEX CONN: DMIC, ALS1 FILTERS	

CN RIGHT SPEAKER AMP



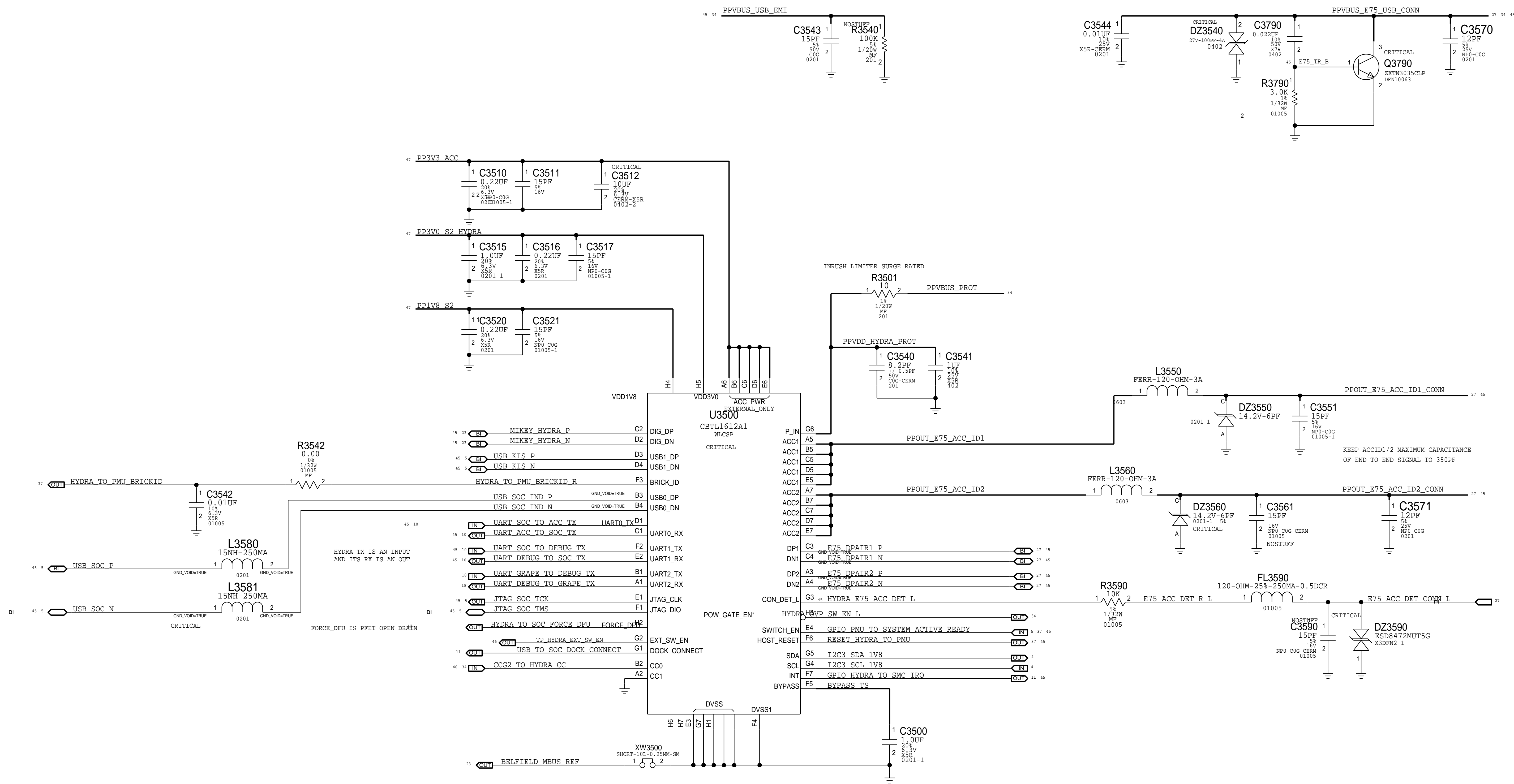
CN LEFT SPEAKER AMP



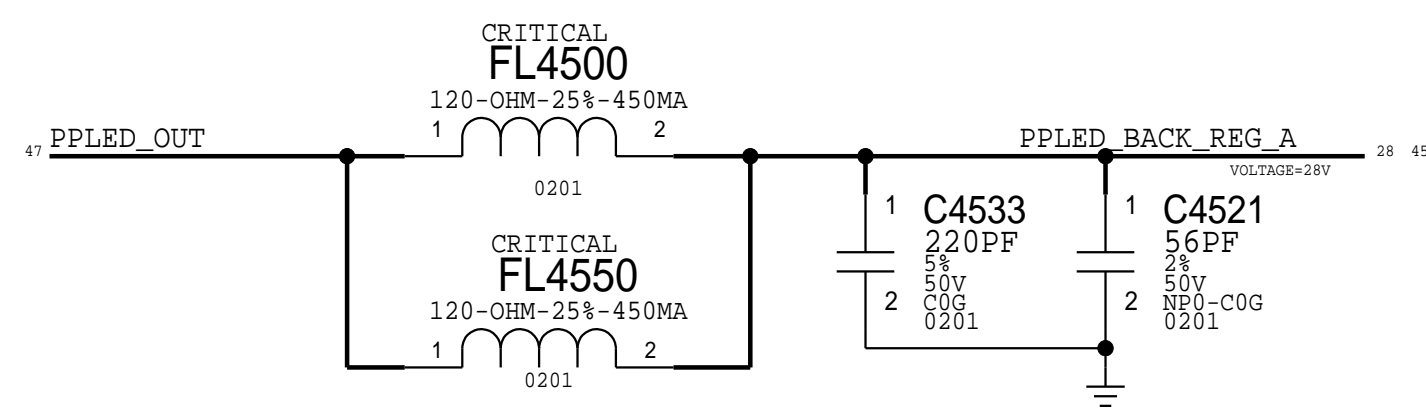
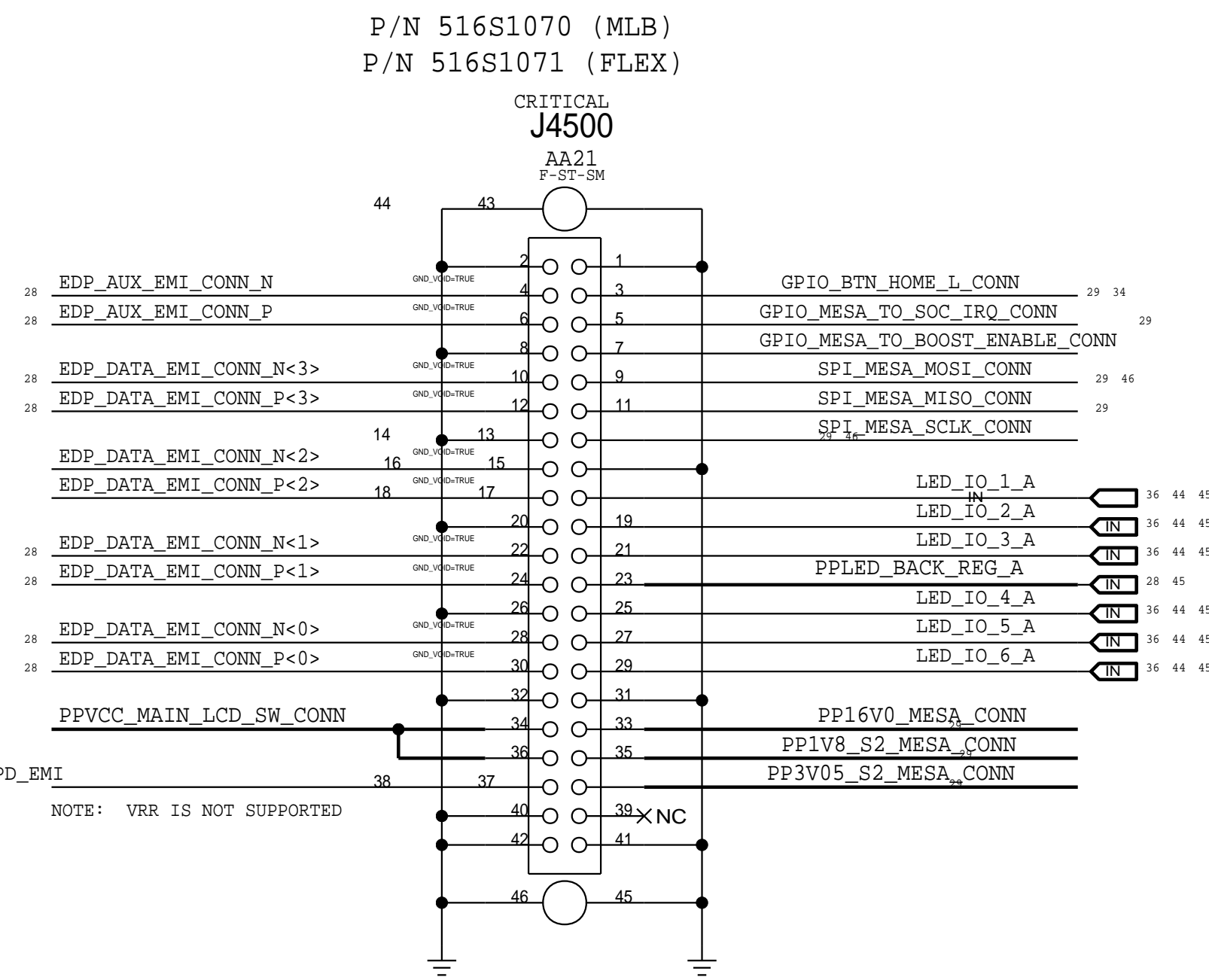
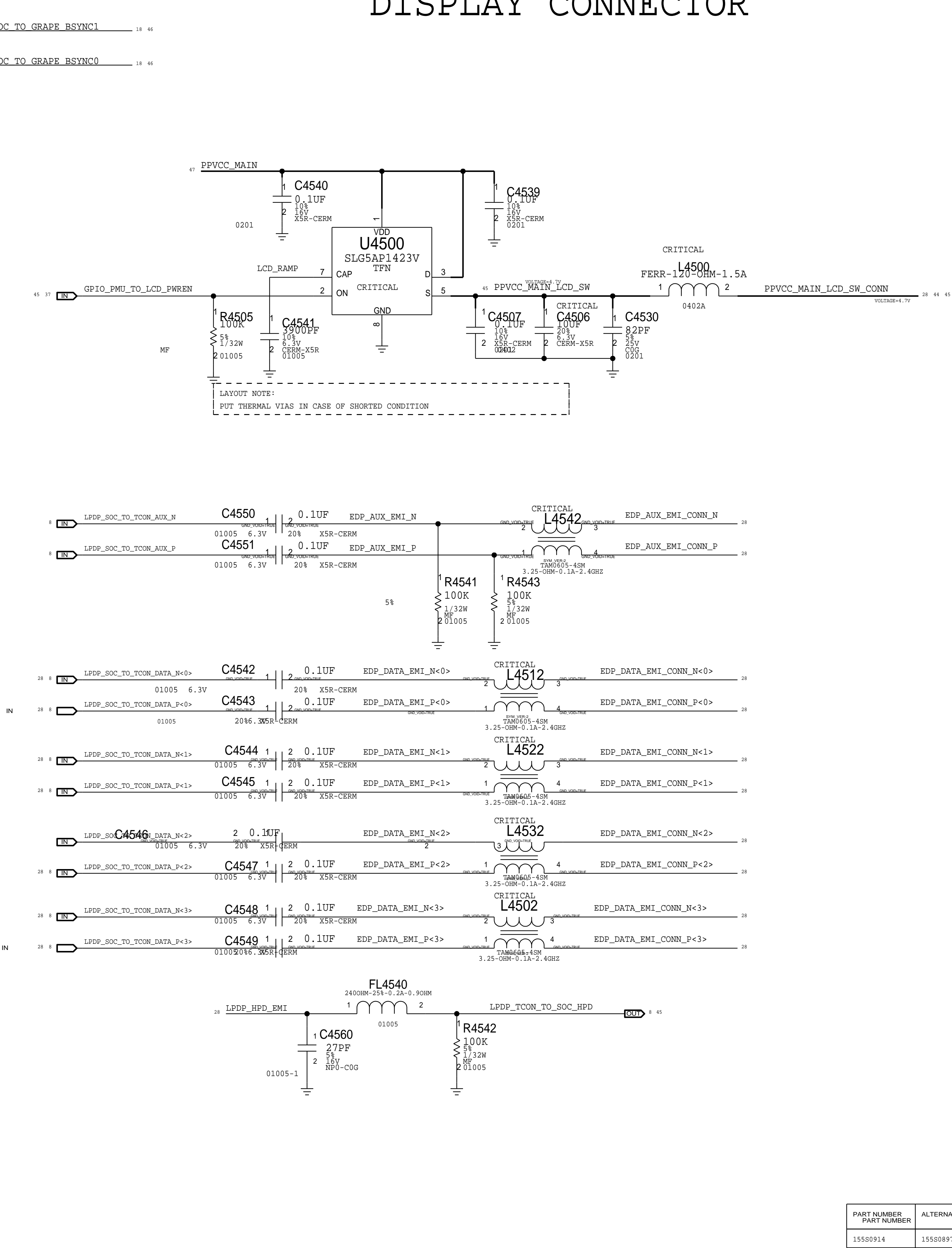
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S00073	128S00095			C32A0 ...

SYNCH_MASTER=C211_NG_B		SYNCH_DATE=09/10/2018	
PAGE TITLE			
AUDIO: SPEAKER AMPS (CN)			

HYDRA



DISPLAY CONNECTOR



D

D

B

B

A

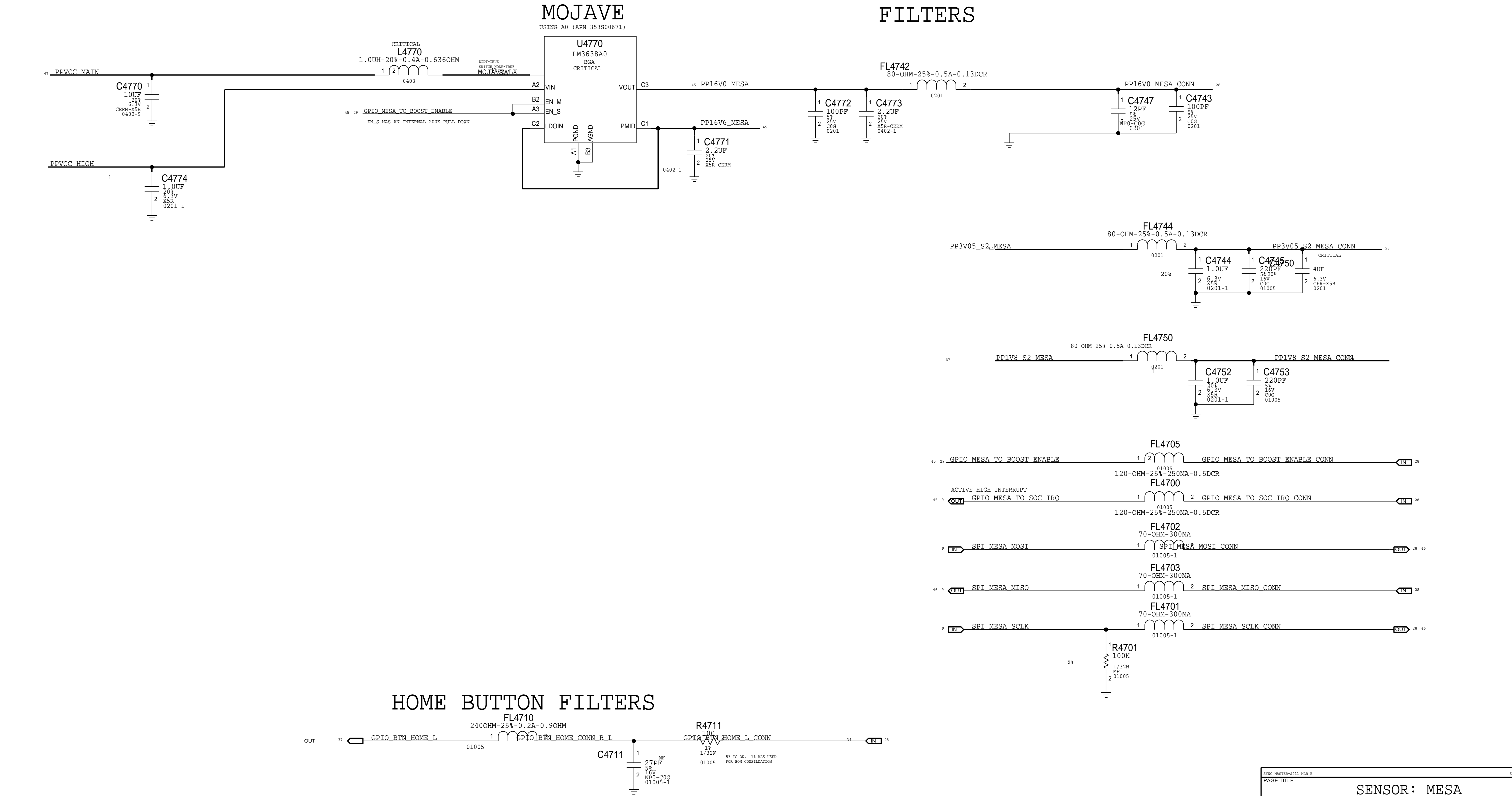
A

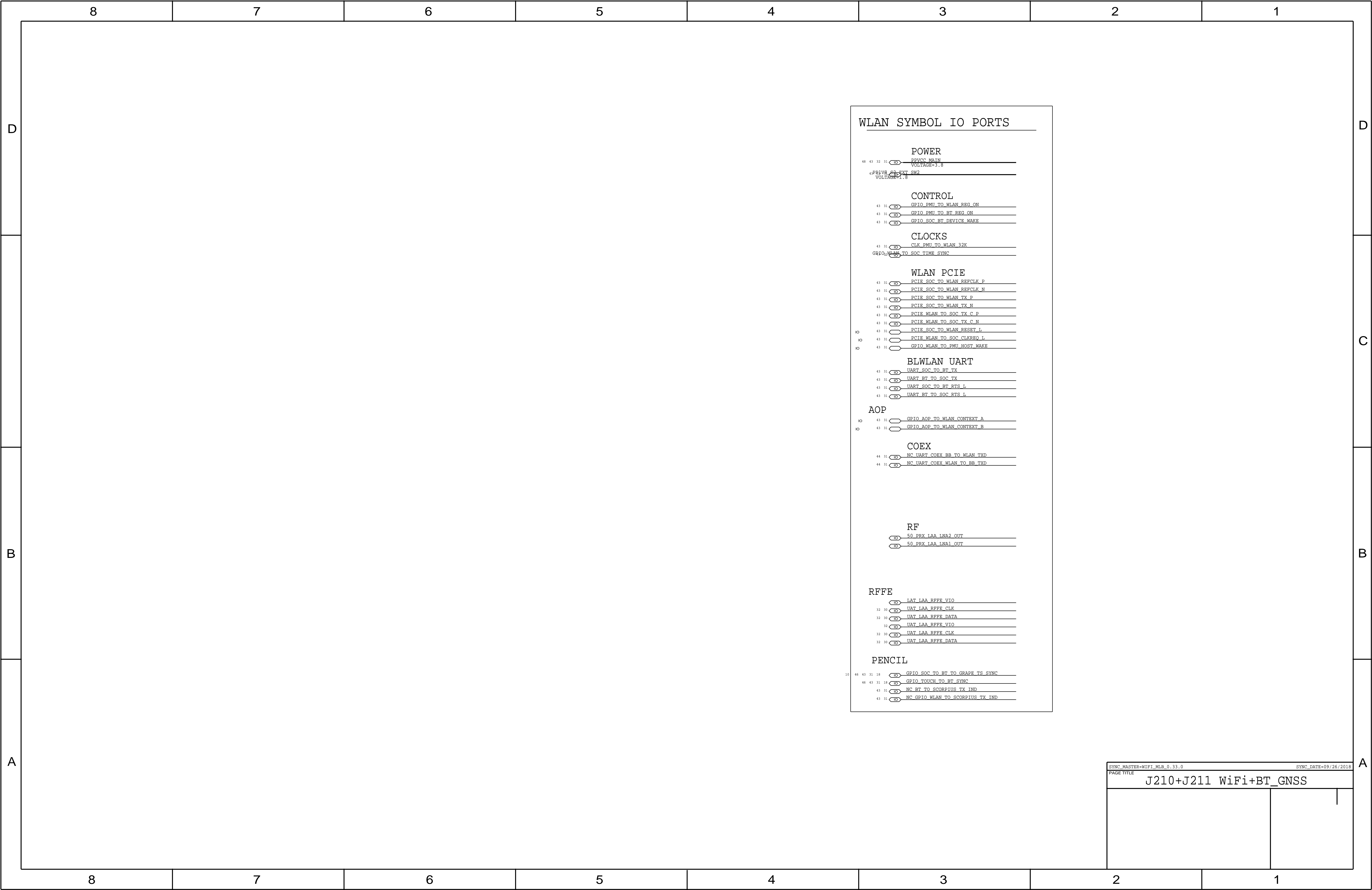
PART NUMBER	ALTERNATE FOR	BOM OPERATIONS	COMMENTS:	
155S0914	155S0897			L4502,12,22,32,42

DISPLAY: FILTERS & CONN		

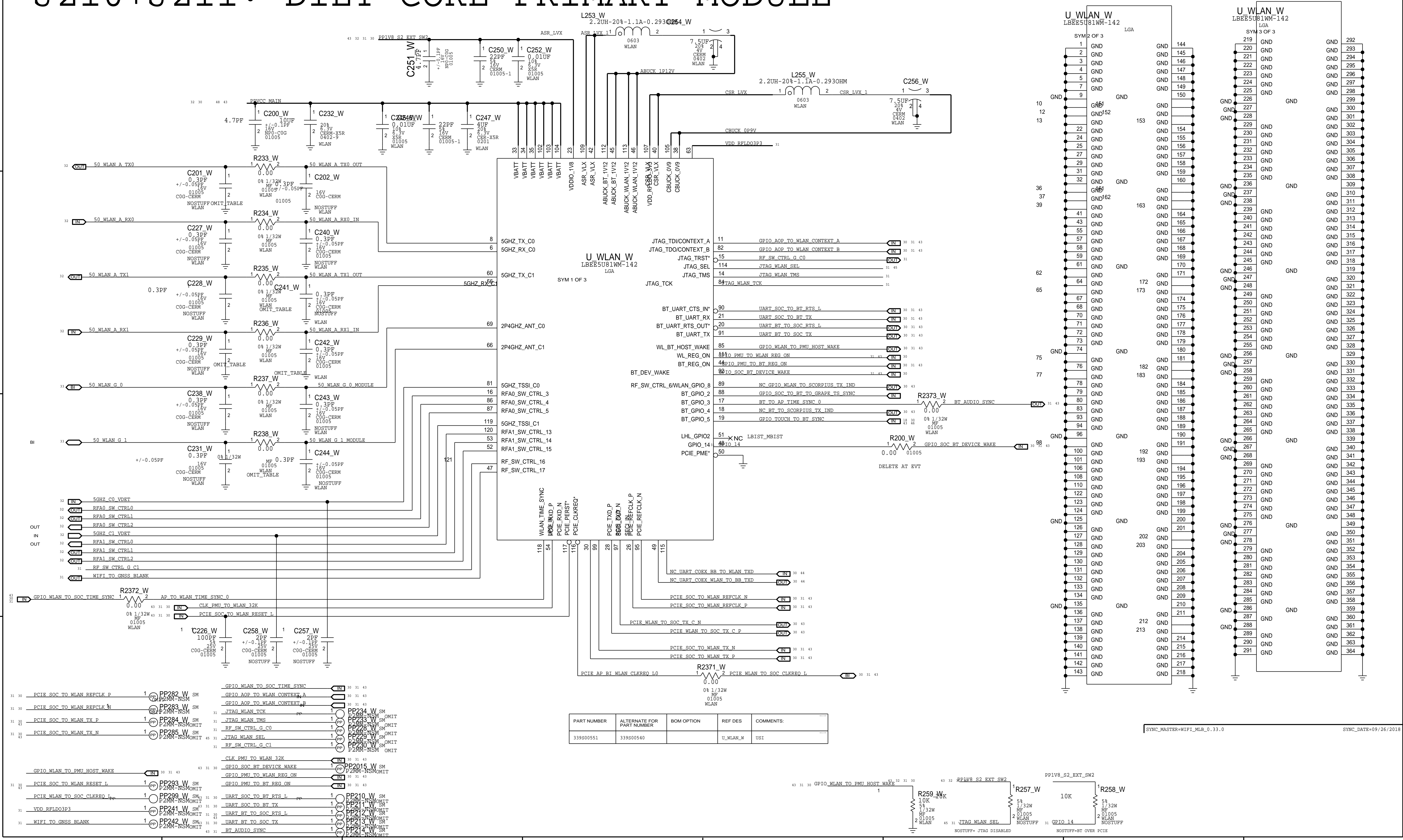
MESA & HOME BUTTON

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
132S00088	132S0639		04746, ETC	RDAR: // PROBLEM/2692883





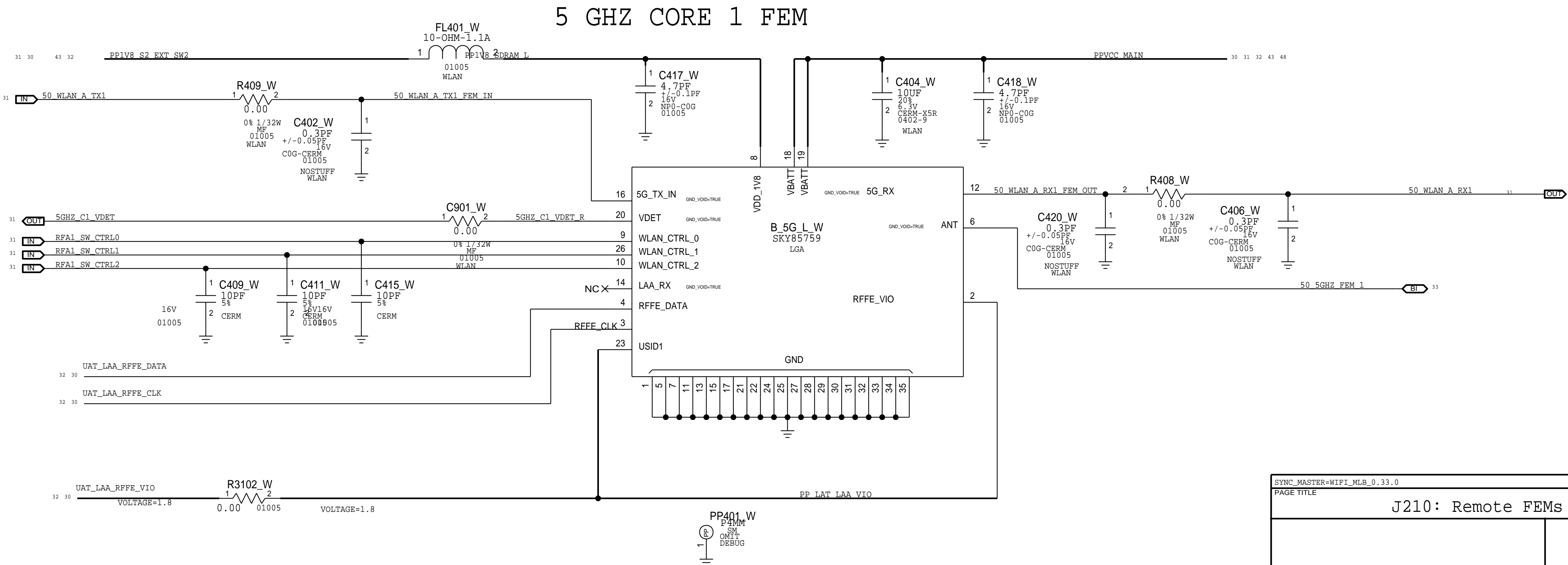
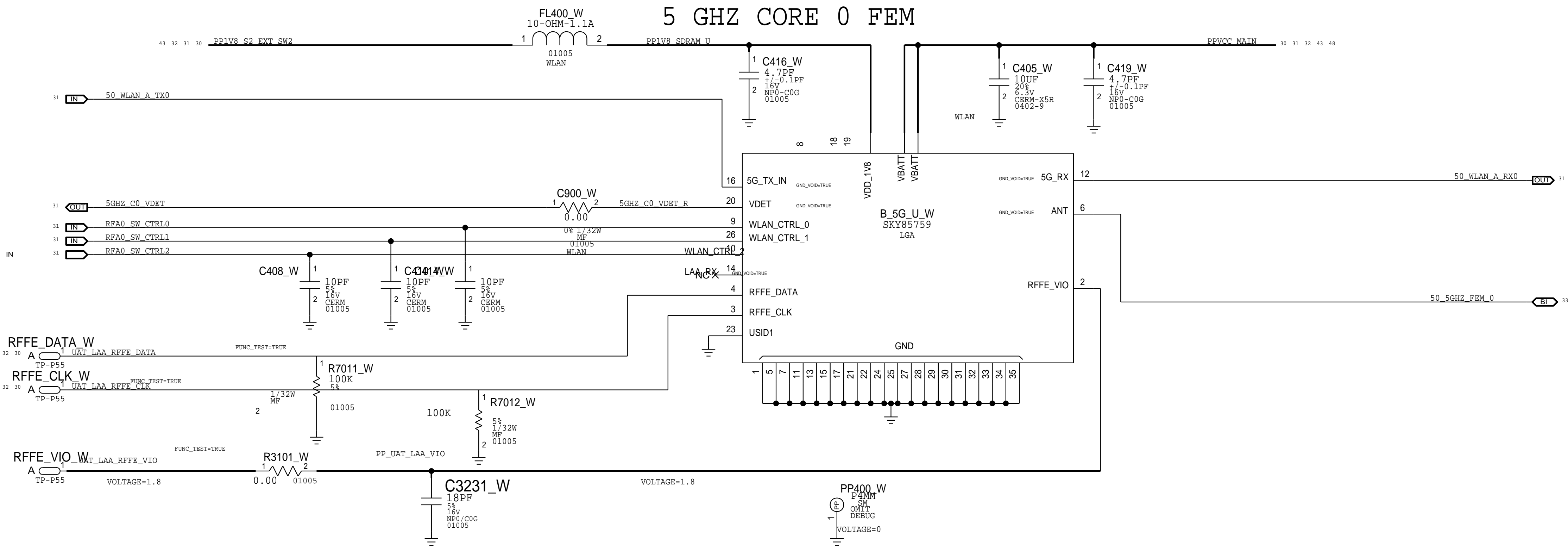
J210+J211: DIET COKE PRIMARY MODULE



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S00551	339S00540		U_WLAN_W	USI

SYNC_MASTER=WIFI_MLB_0.33.0 SYNC_DATE=09/26/2018

J210: DIET COKE REMOTE FEMS



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152800427	1	IND,2.0NH,+/-0.1NH,700MA,SHQ,01005	R238_W	
111750061	1	RES,0 OHM, 1/32W,01005	R235_W	
111750061	1	RES,0 OHM, 1/32,01005	R236_W	
11750161	1	RES,MF,0 OHM, 1/32,01005	R233_W	
131S00339	1	CAP,C0G,0.2PF,+/-0.05PF,01005	C242_W	NOSTUFF

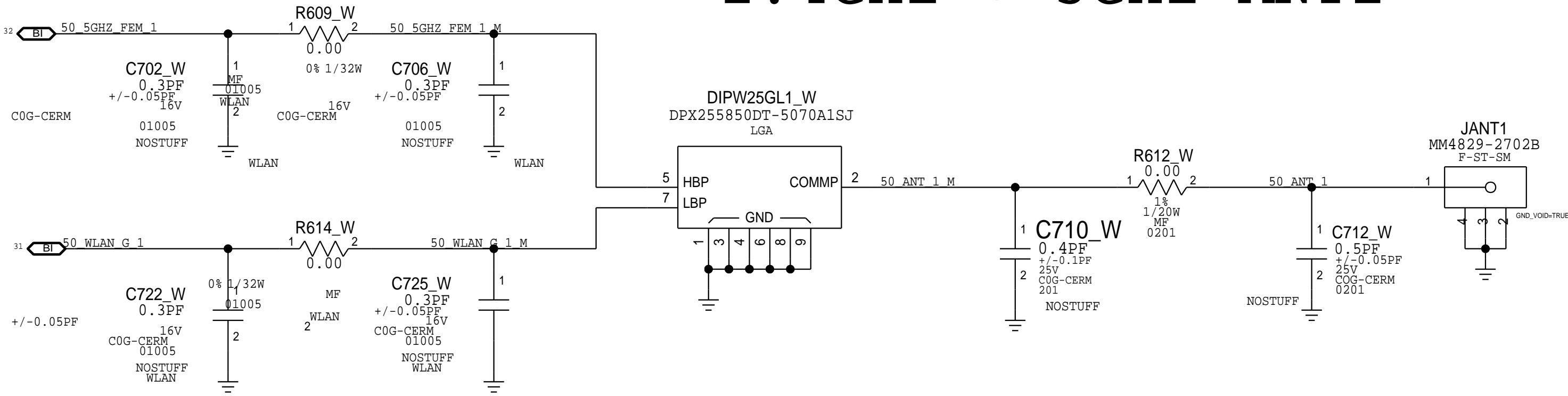
SYNC_MASTER=WIFI_MLB_0.33.0

SYNC_DATE=09/26/2018

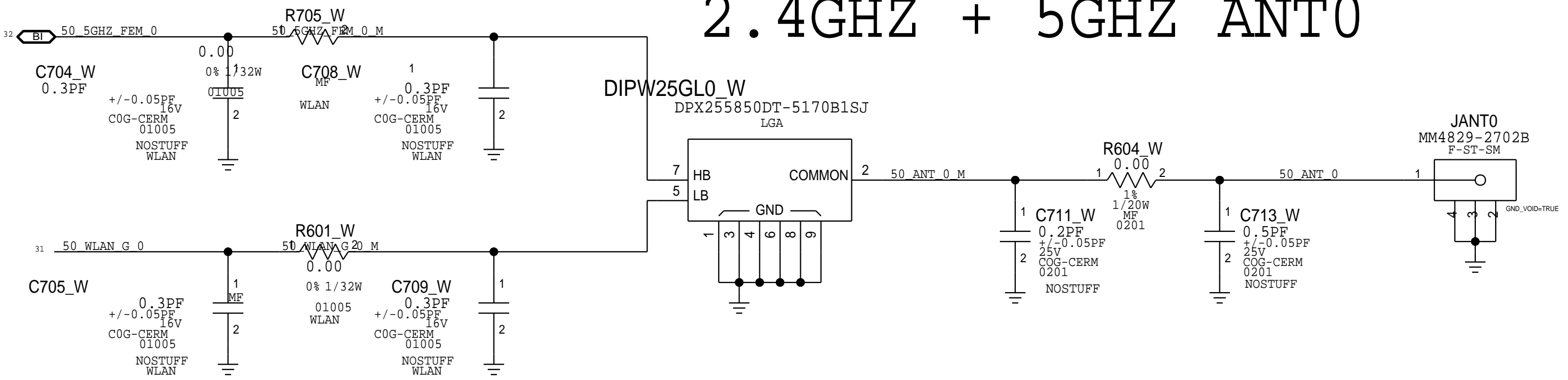
PAGE TITLE J210: Remote FEMs

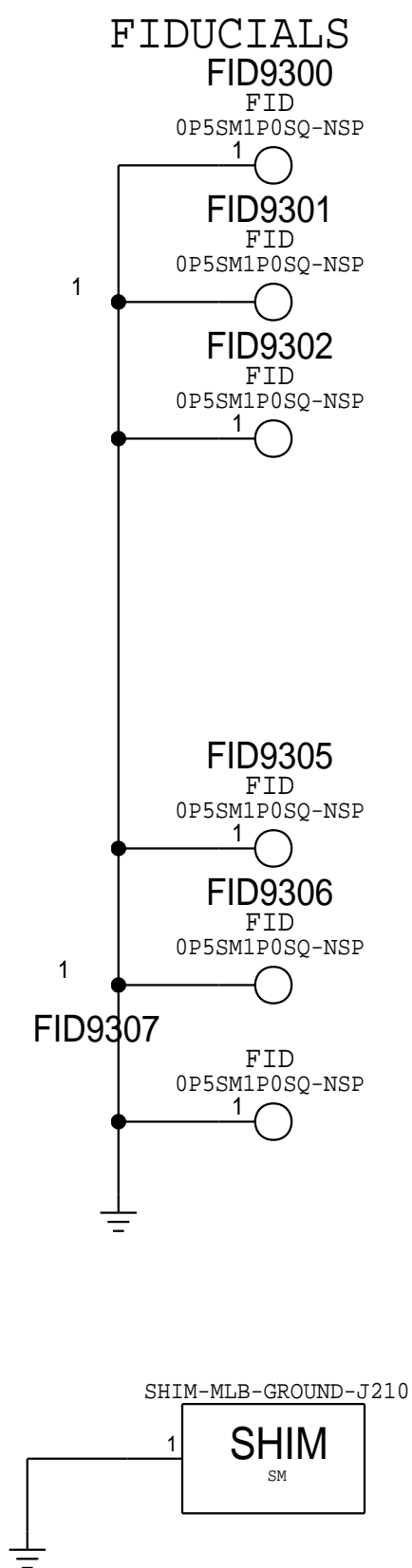
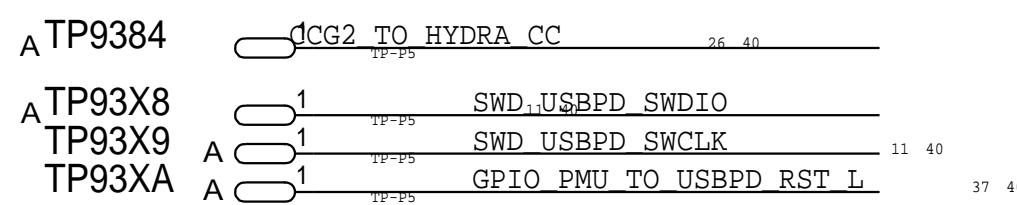
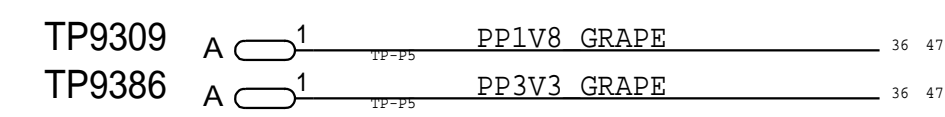
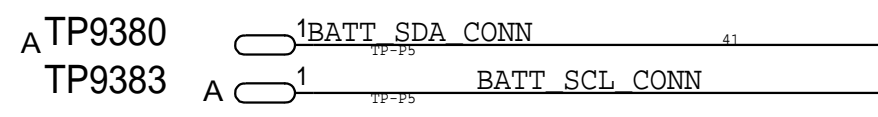
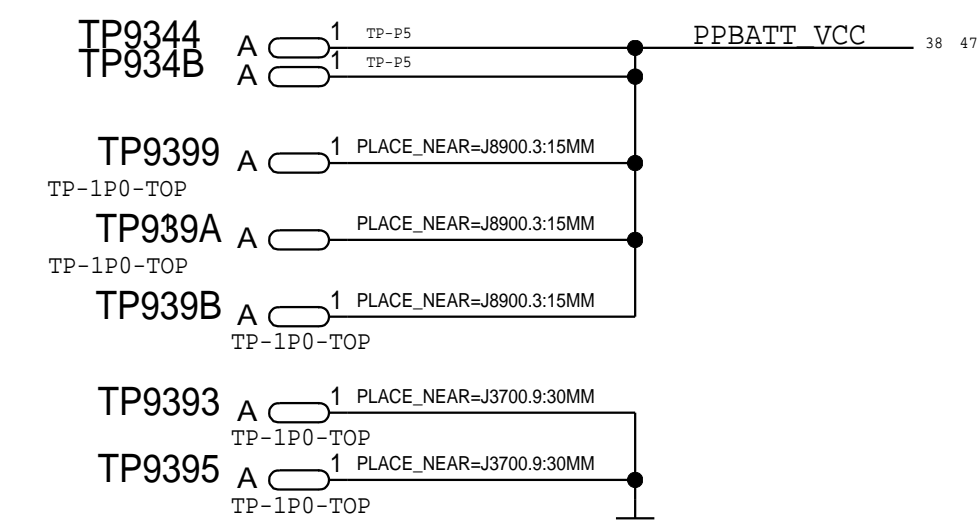
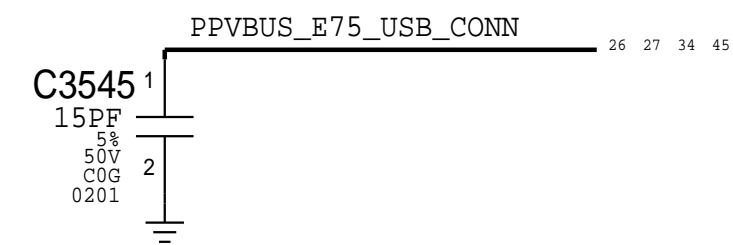
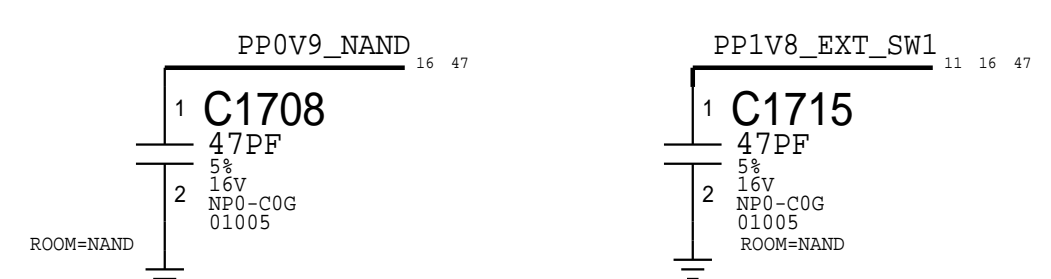
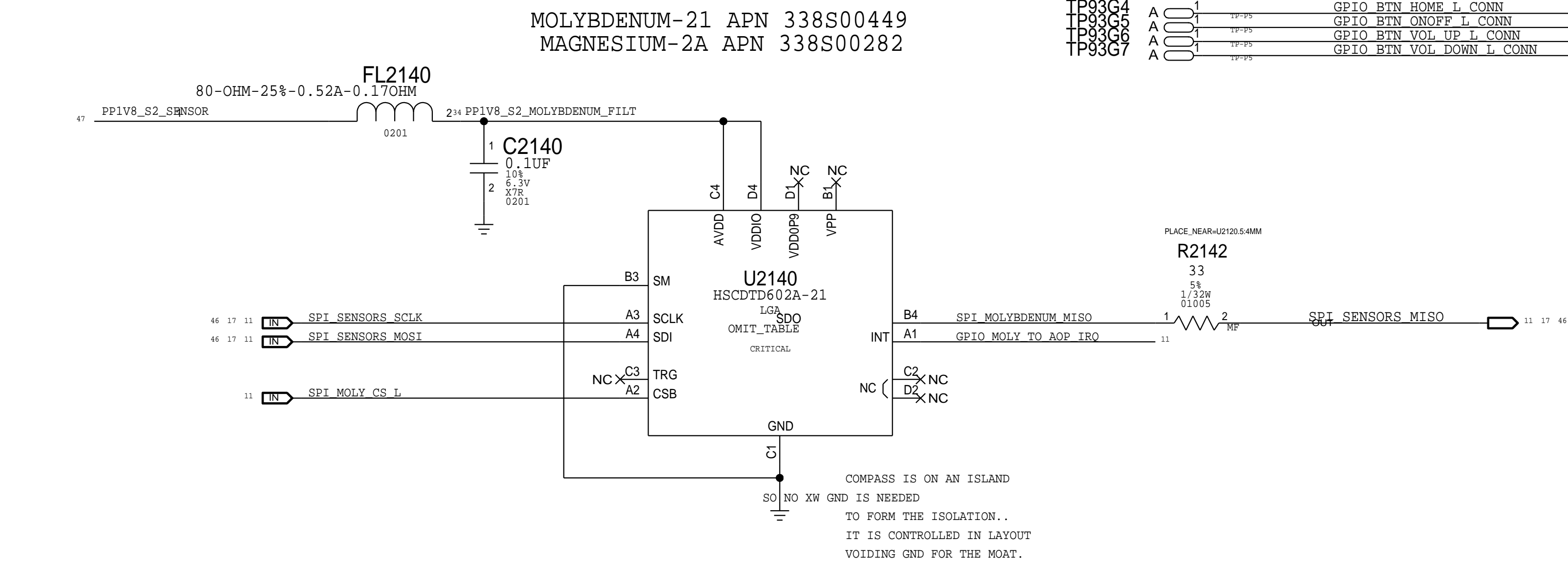
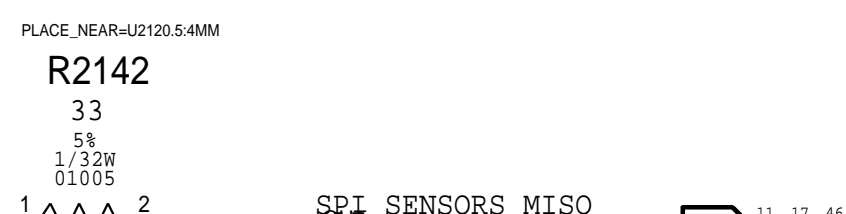
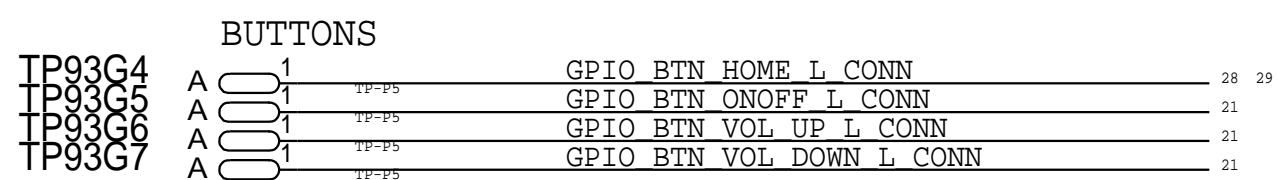
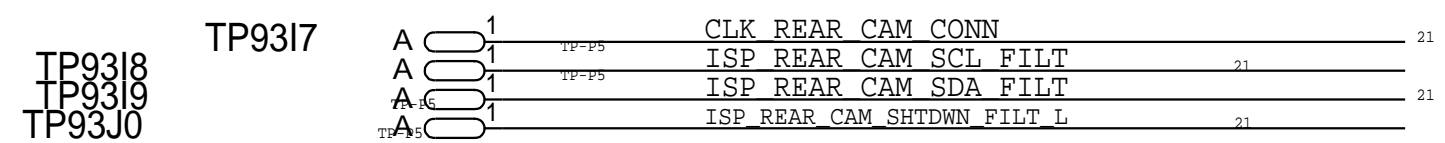
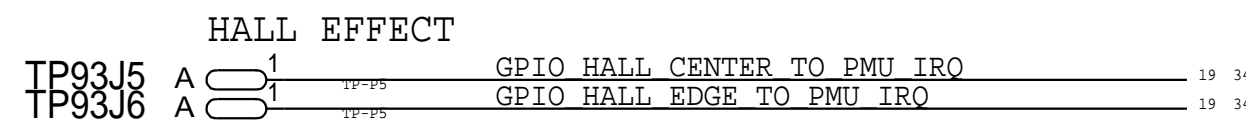
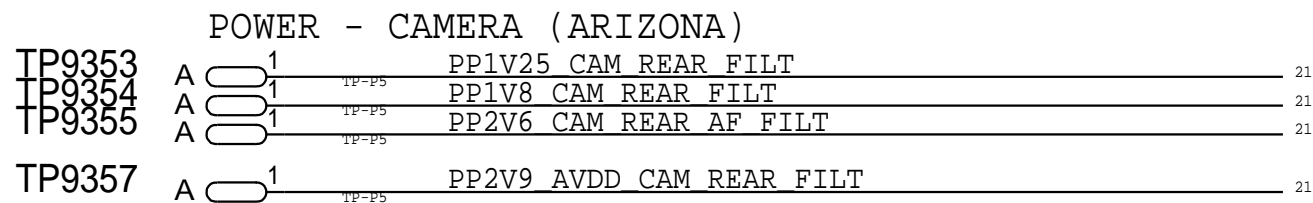
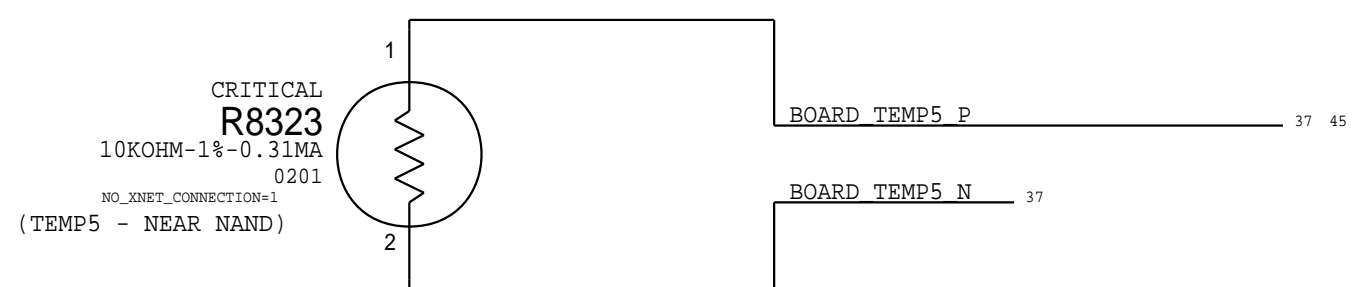
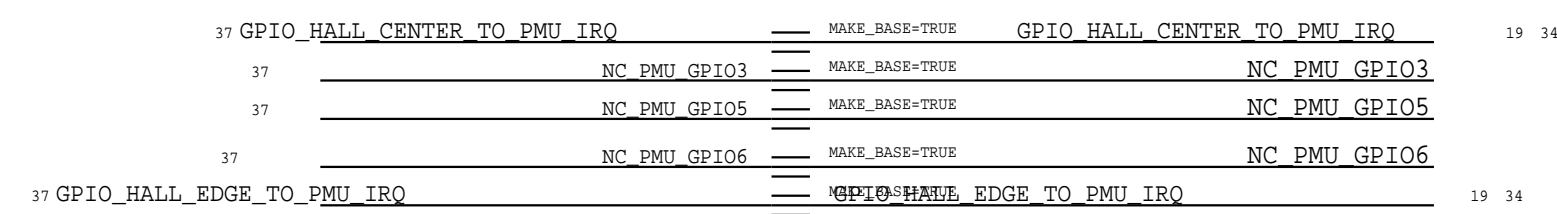
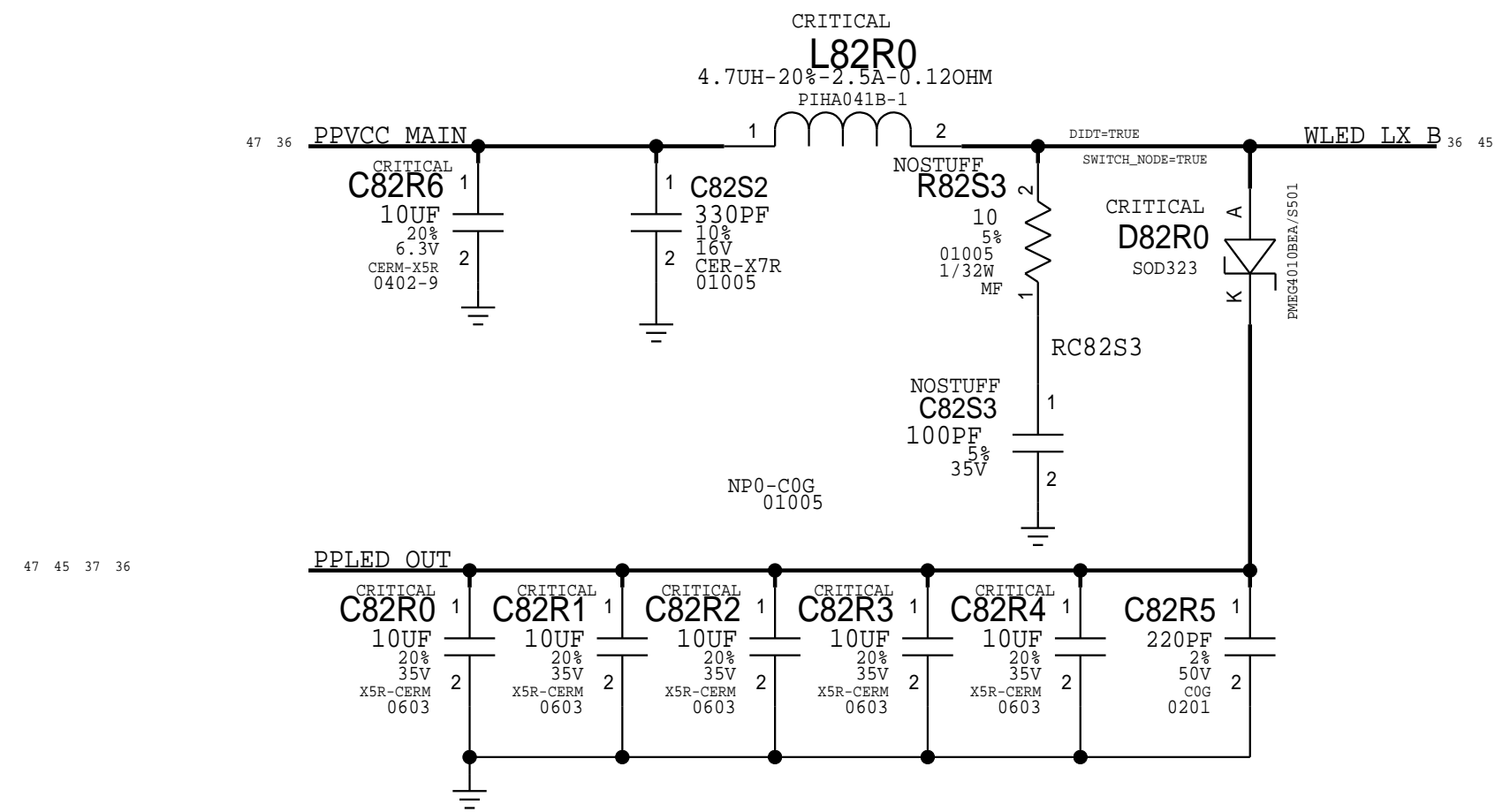
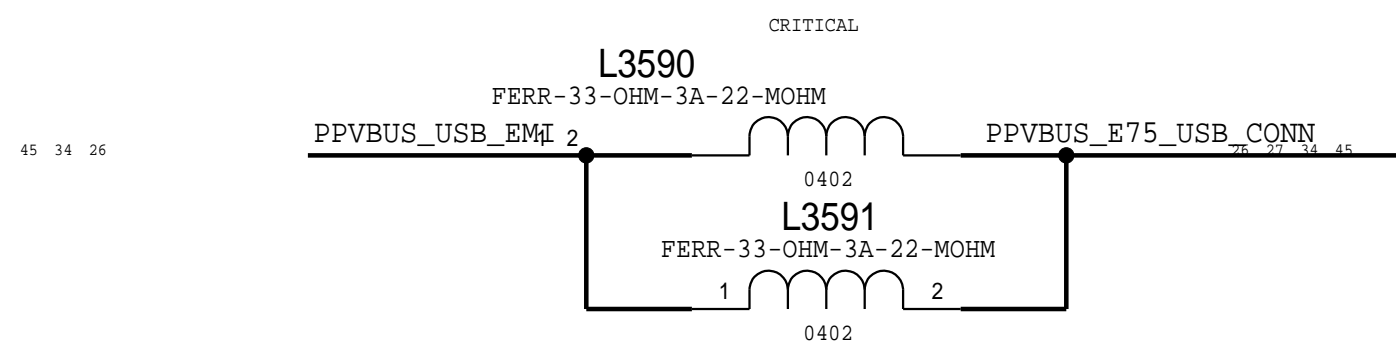
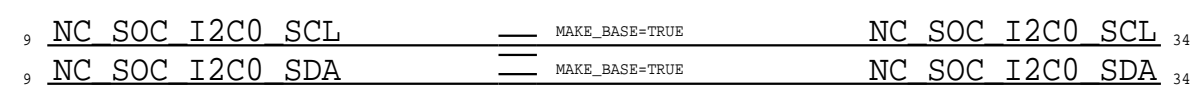
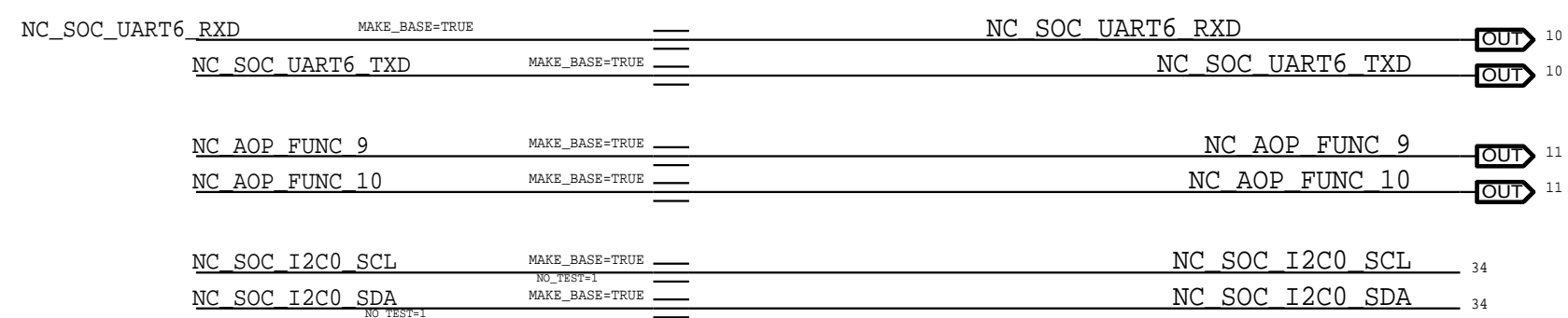
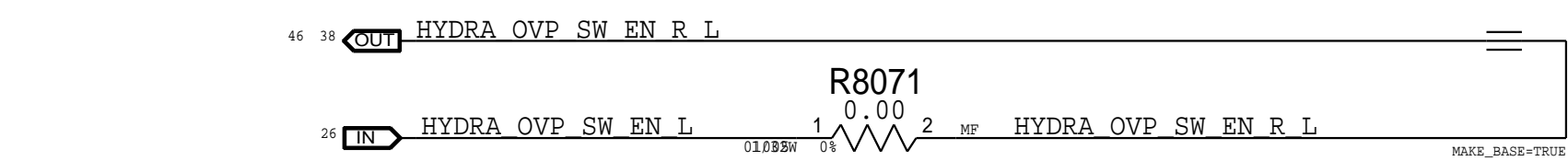
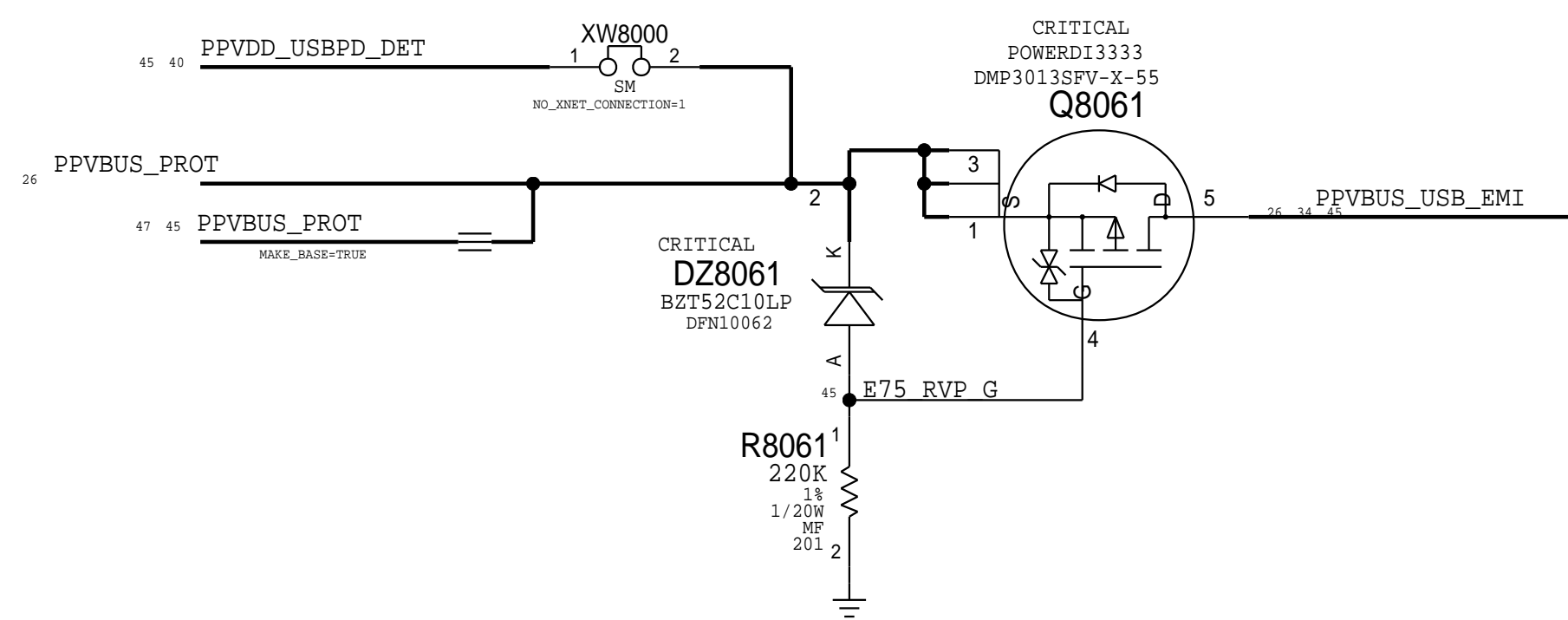
J210: FRONT END

2.4GHZ + 5GHZ ANT1



2.4GHZ + 5GHZ ANT0





ATLAS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343S00282	1	IC,FMU,ATLAS,D2652A0,OTP-BC,CSP400	U8100	CRITICAL	

POTOMAC

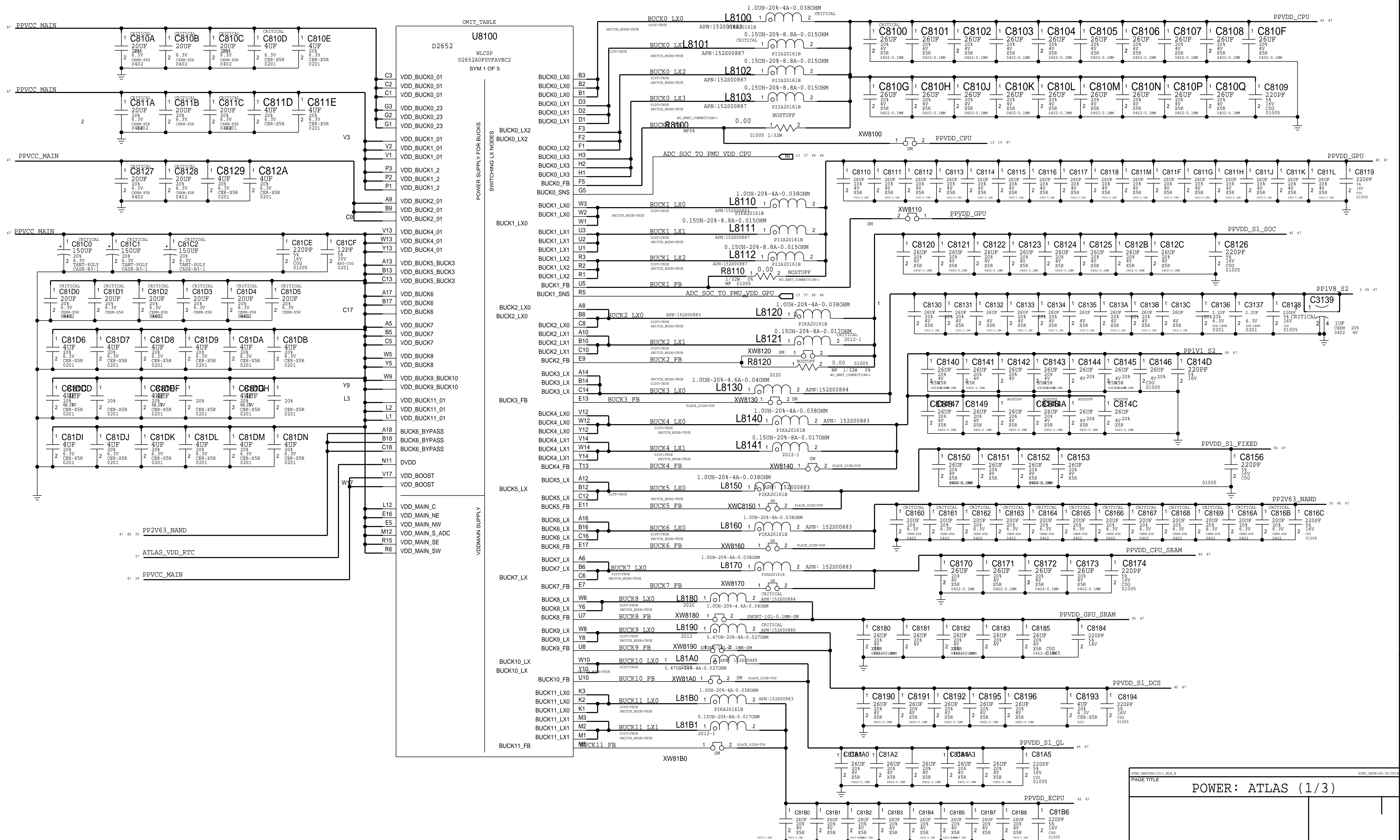
PART#	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
343S00286	1C, CSRGR, PGT06A1, 225V, H40, 07P-DC, CSP182	U8500CRITICAL	

COMPASS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S00282	1	IC,COMPASS,MAGNESIUM,601A-2A,FLGA14	U2140	CRITICAL	MAGNESIUM
IC,COMPASS,MOLYBDENUM,SPI-21,FLGA14			U2140CRITICAL		MOLYBDENUM

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
-------------	---------------------------	------------	---------	-----------

ATLAS BUCKS



ATLAS LDOS (2/3)

D

B

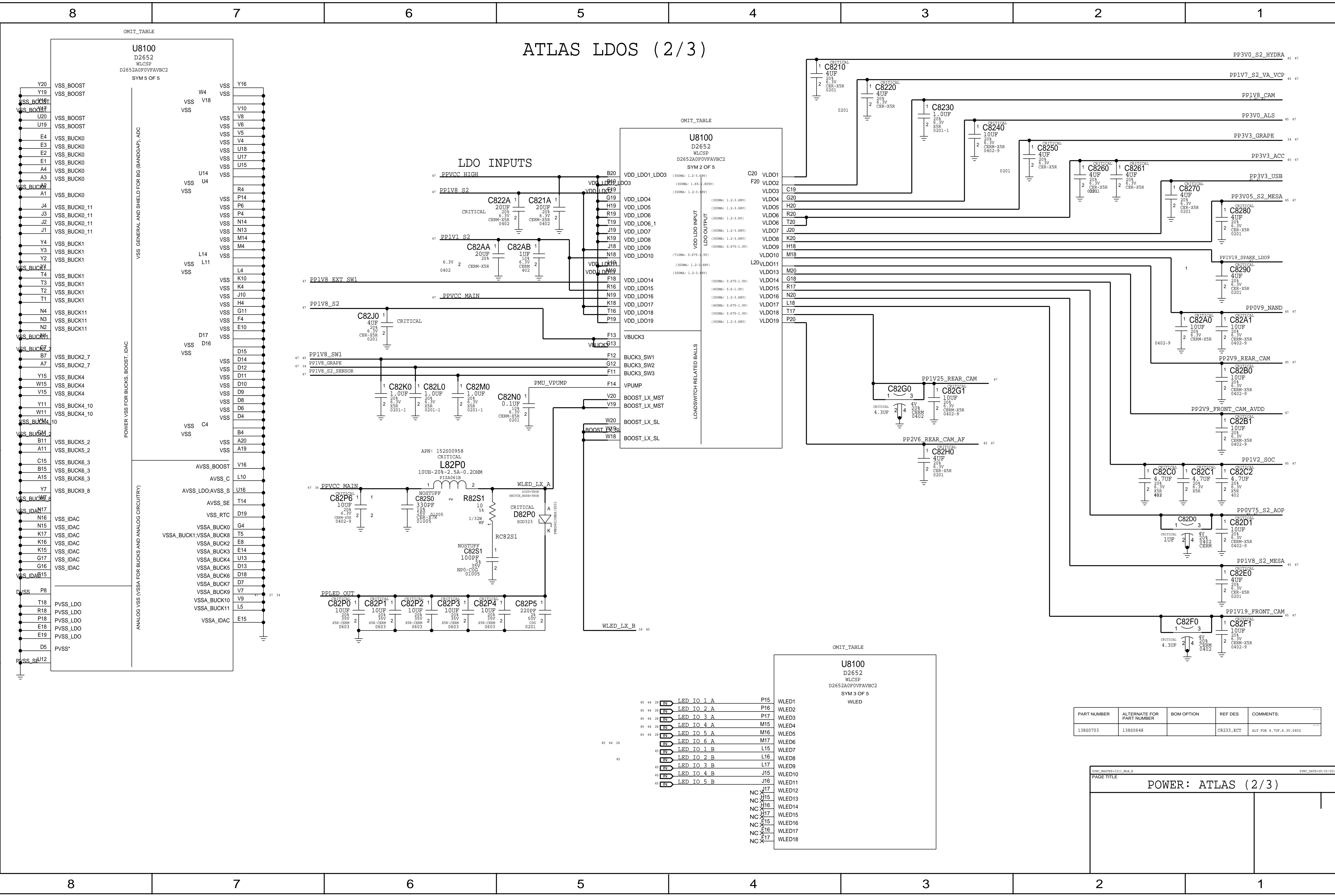
A

D

C

B

A



45	44	28	LED IO 1 A	P15	WLED1
45	44	28	LED IO 2 A	P16	WLED2
45	44	28	LED IO 3 A	P17	WLED3
45	44	28	LED IO 4 A	M15	WLED4
45	44	28	LED IO 5 A	M16	WLED5
45	44	28	LED IO 6 A	M17	WLED6
45	44	28	LED IO 1 B	L15	WLED7
45	44	28	LED IO 2 B	L16	WLED8
45	44	28	LED IO 3 B	L17	WLED9
45	44	28	LED IO 4 B	J15	WLED10
45	44	28	LED IO 5 B	J16	WLED11
45	44	28	LED IO 6 B	J17	WLED12
45	44	28	LED IO 1 C	L15	WLED13
45	44	28	LED IO 2 C	L16	WLED14
45	44	28	LED IO 3 C	L17	WLED15
45	44	28	LED IO 4 C	J15	WLED16
45	44	28	LED IO 5 C	J16	WLED17
45	44	28	LED IO 6 C	J17	WLED18

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0703	138S0648		C8233, ECT	ALT FOR 4.7UF, 6.3V, 0402

SYNC MASTER=2111_MCU_B SYNC DATE=09/10/2018

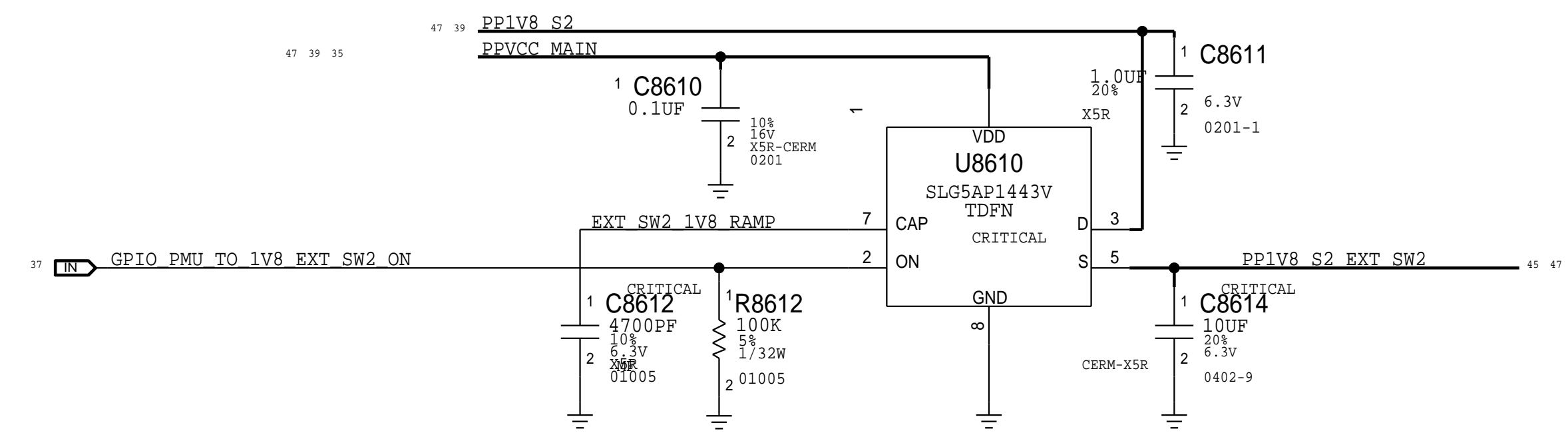
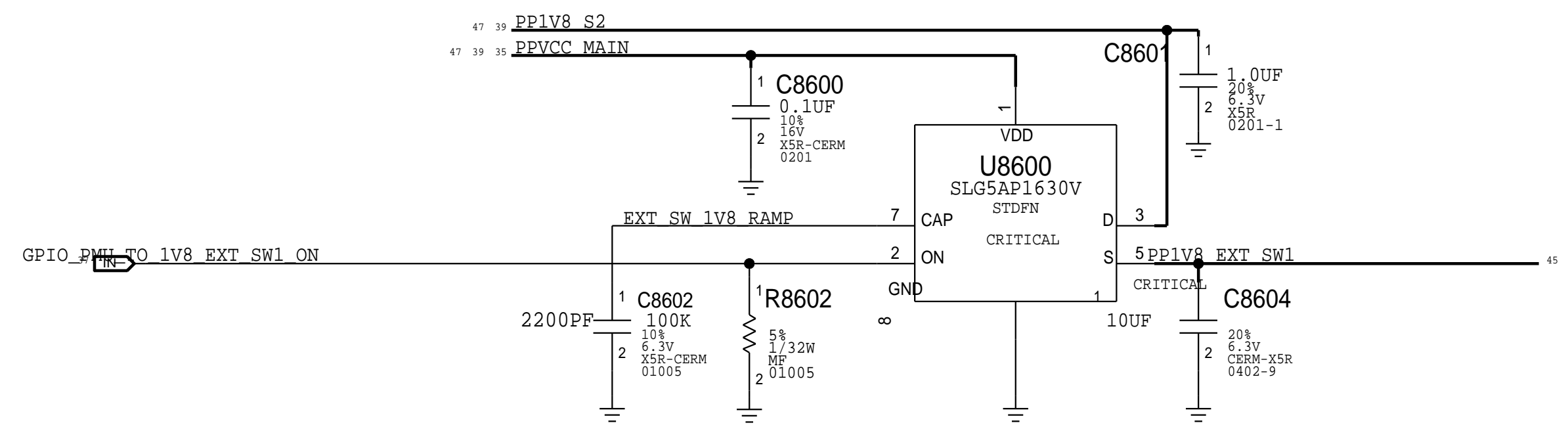
PAGE TITLE POWER: ATLAS (2/3)

D

CB

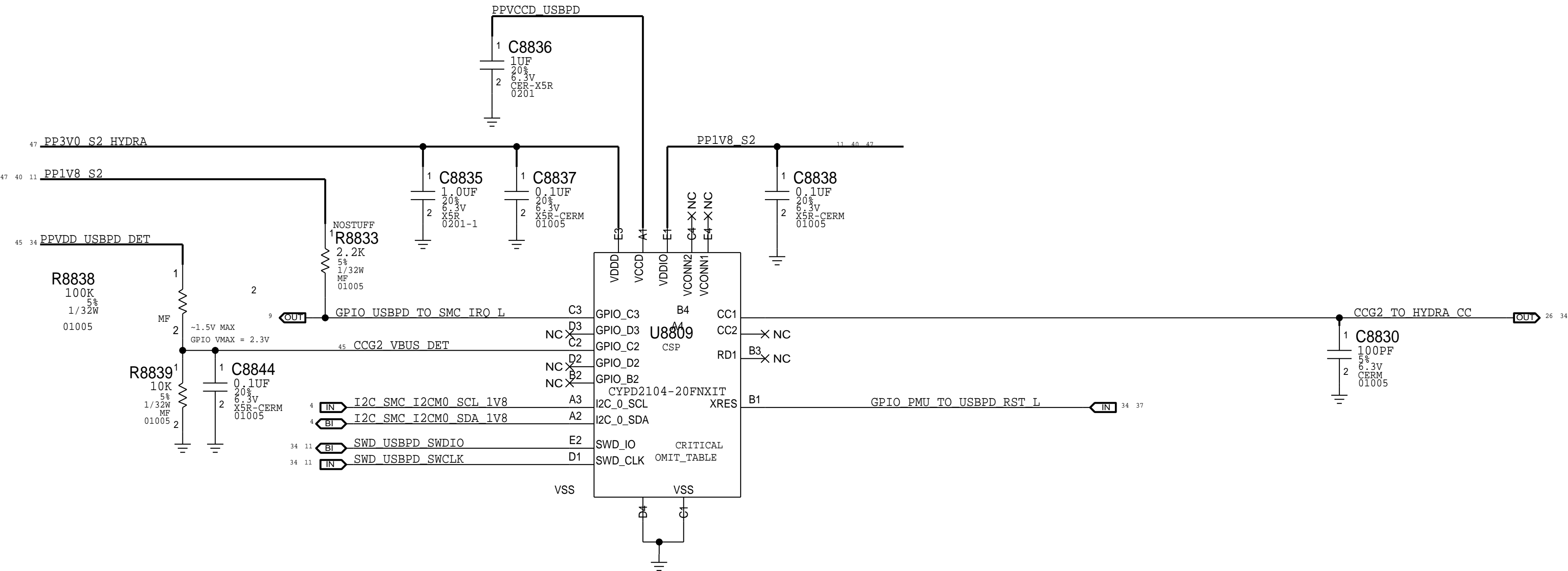
A

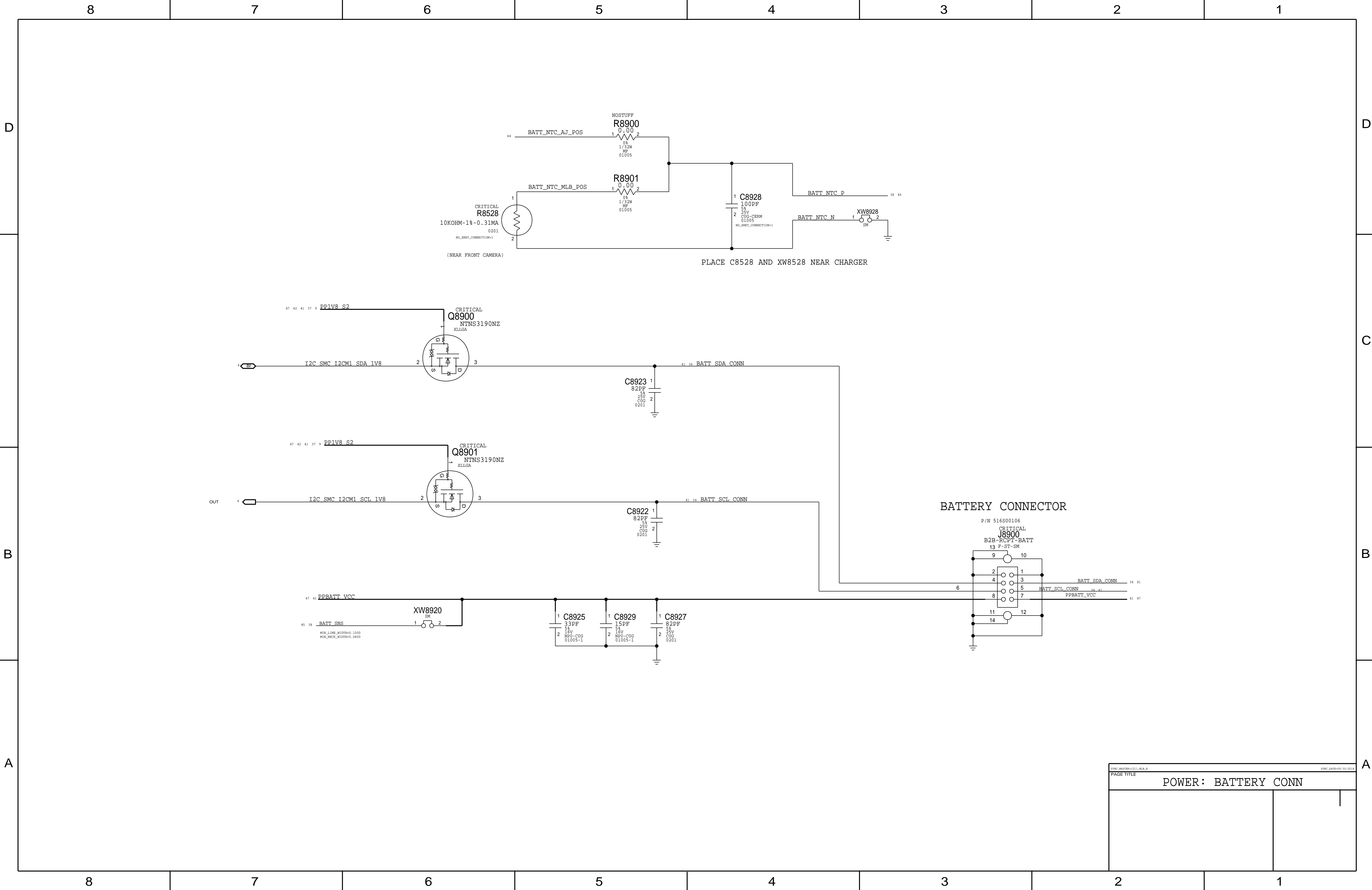
EXTERNAL POWER SWITCHES



POWER: EXTERNAL SWITCHES	

USBPD

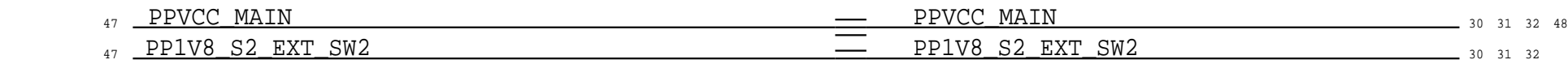




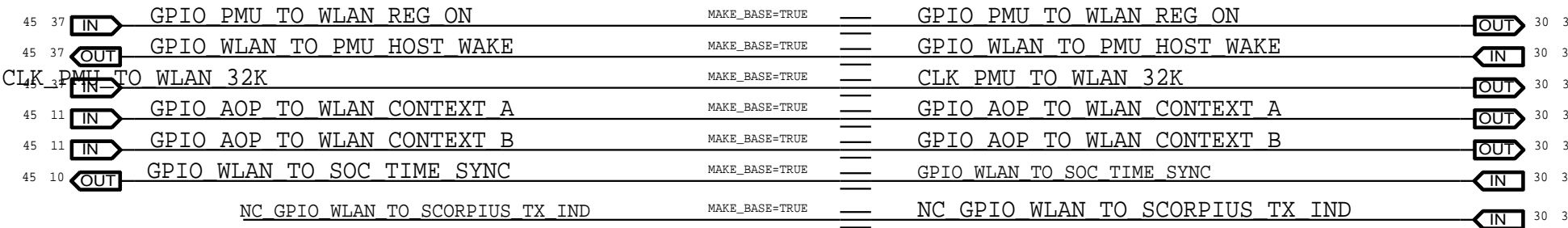
WLAN/BT ALIASES

WLAN

POWER

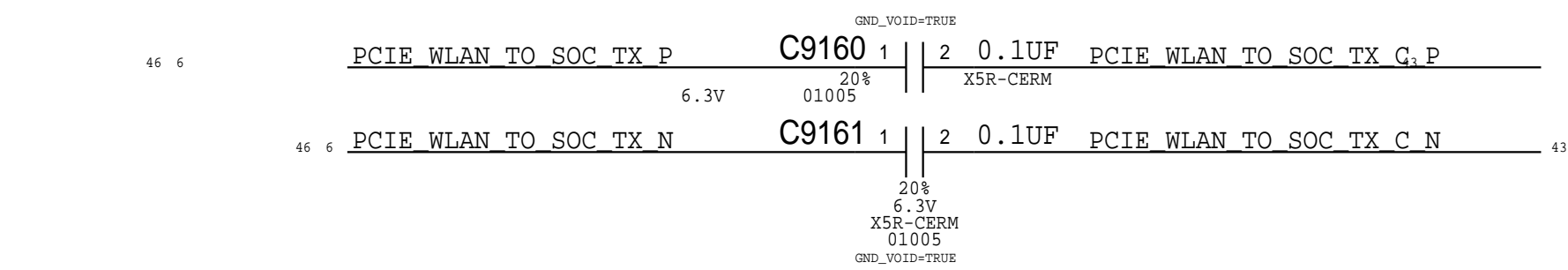
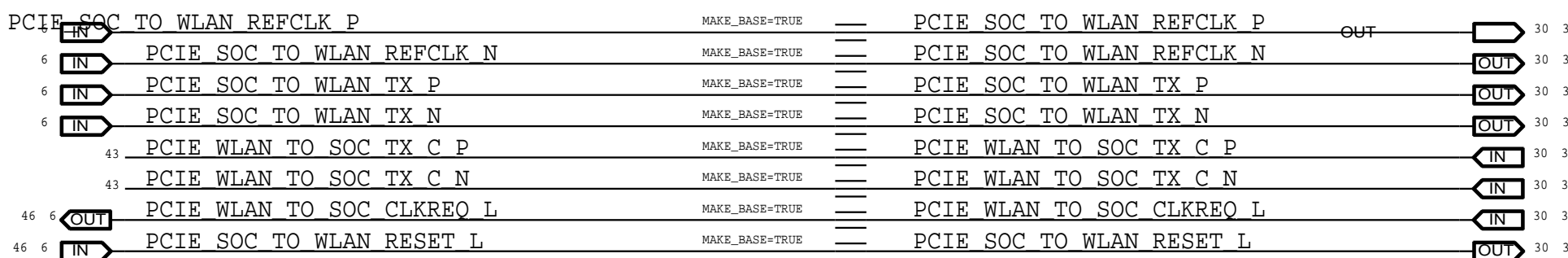


GPIOs



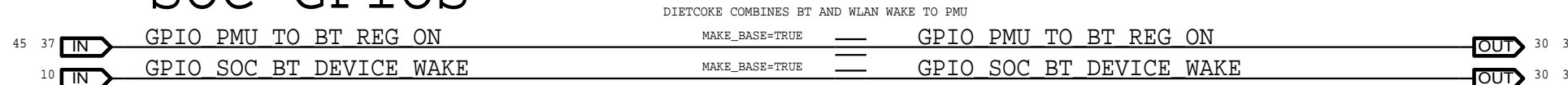
UART (SHARED WITH BT)

PCIE

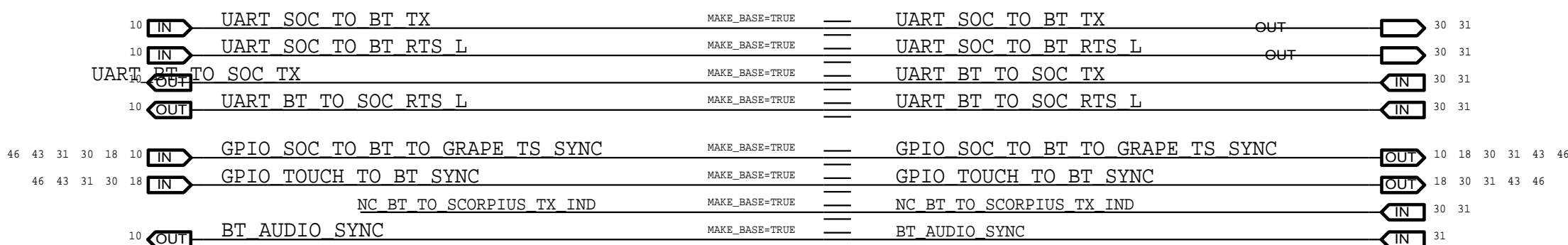


BLUETOOTH

SOC GPIOs

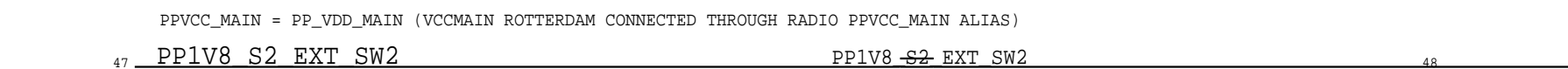


UART

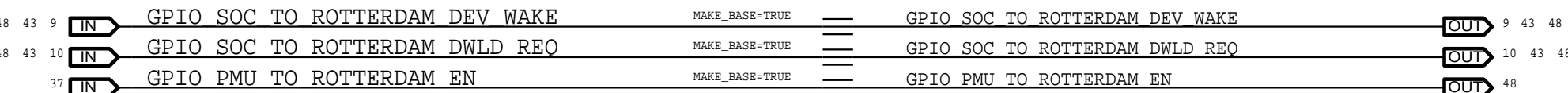


ROTTERDAM

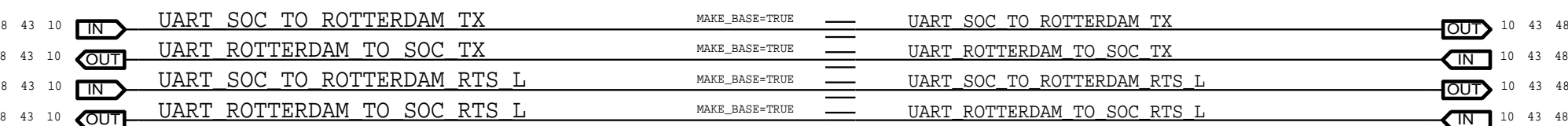
POWER

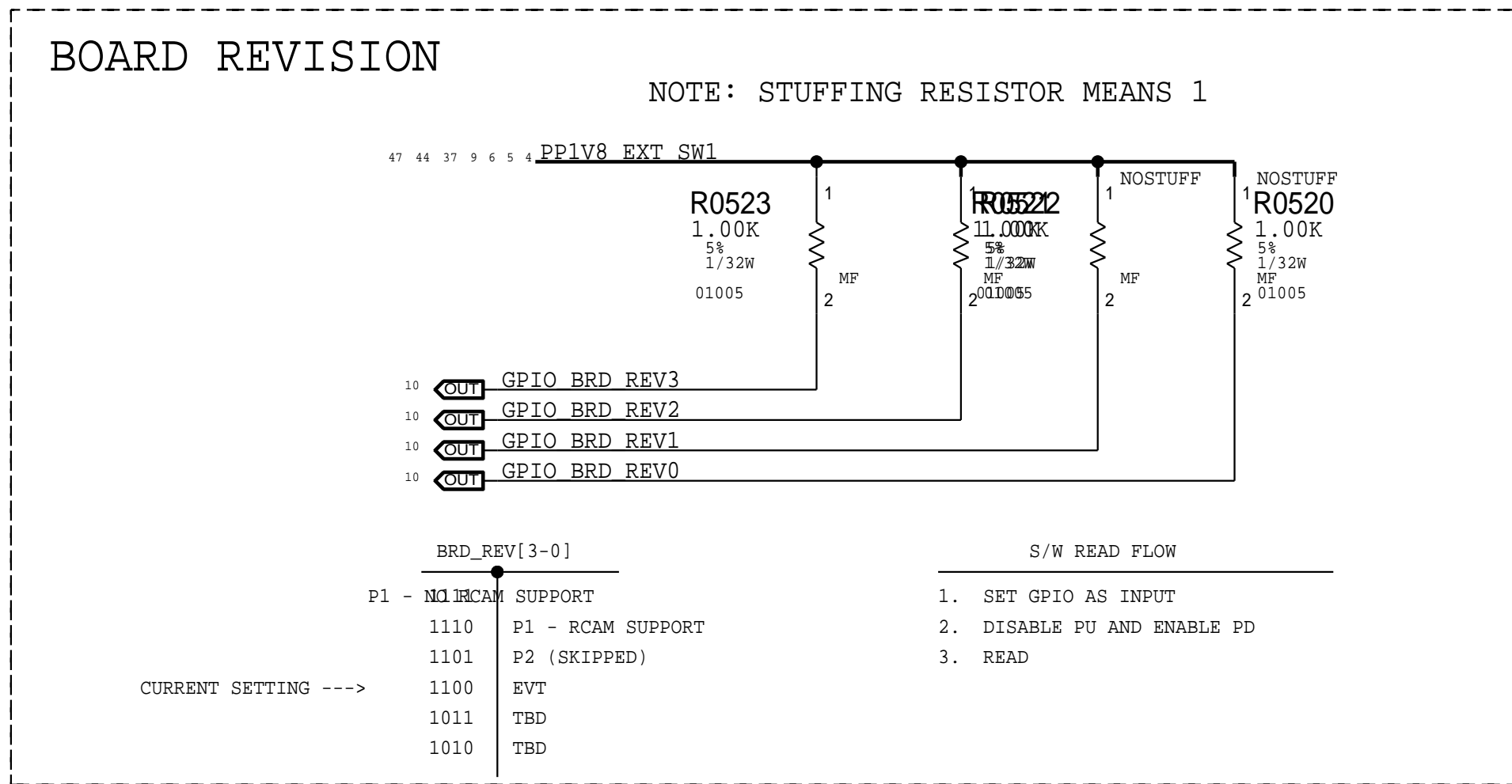
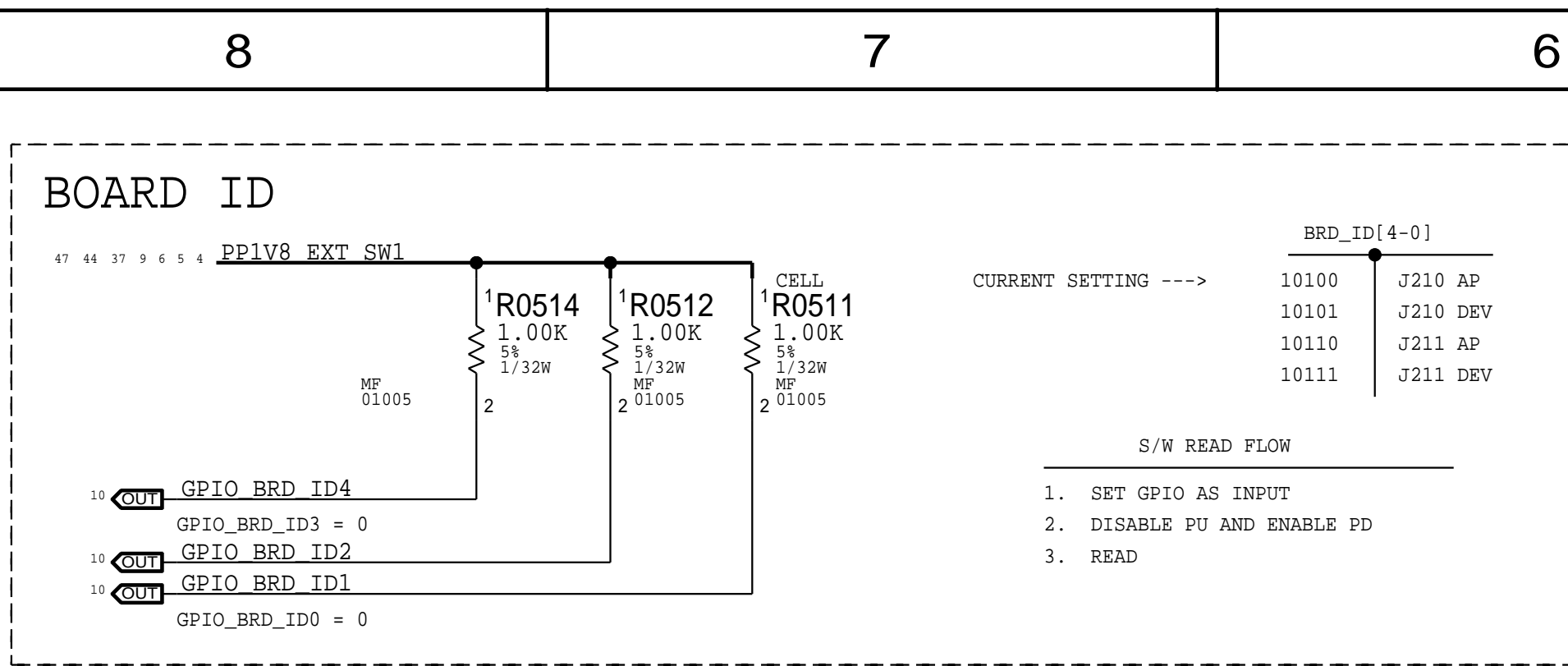


GPIOs



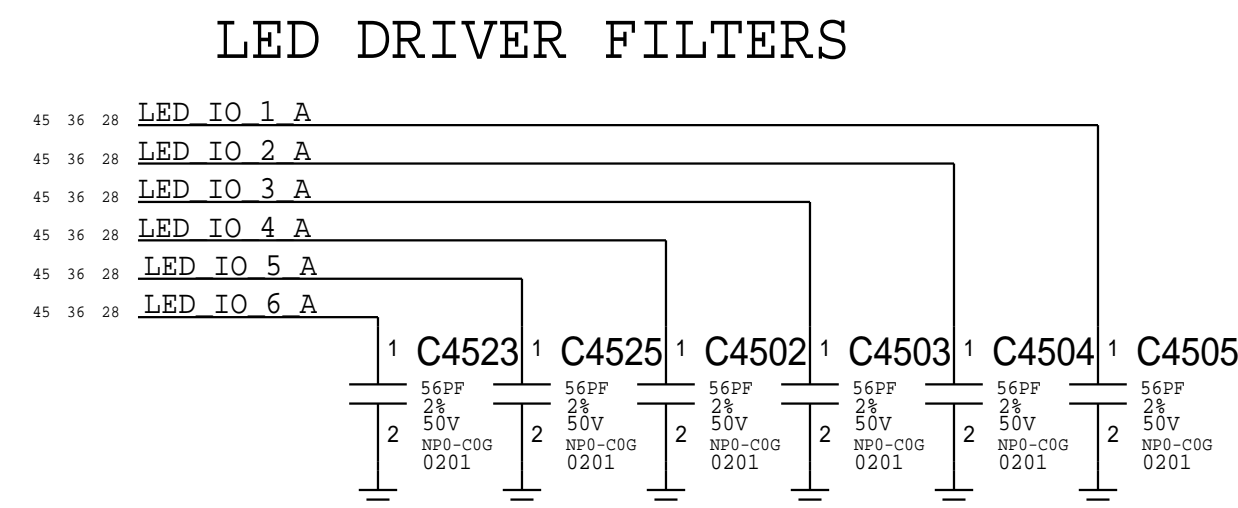
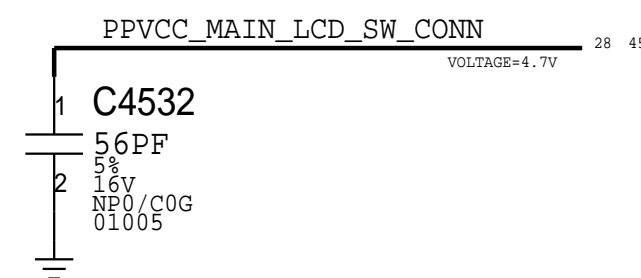
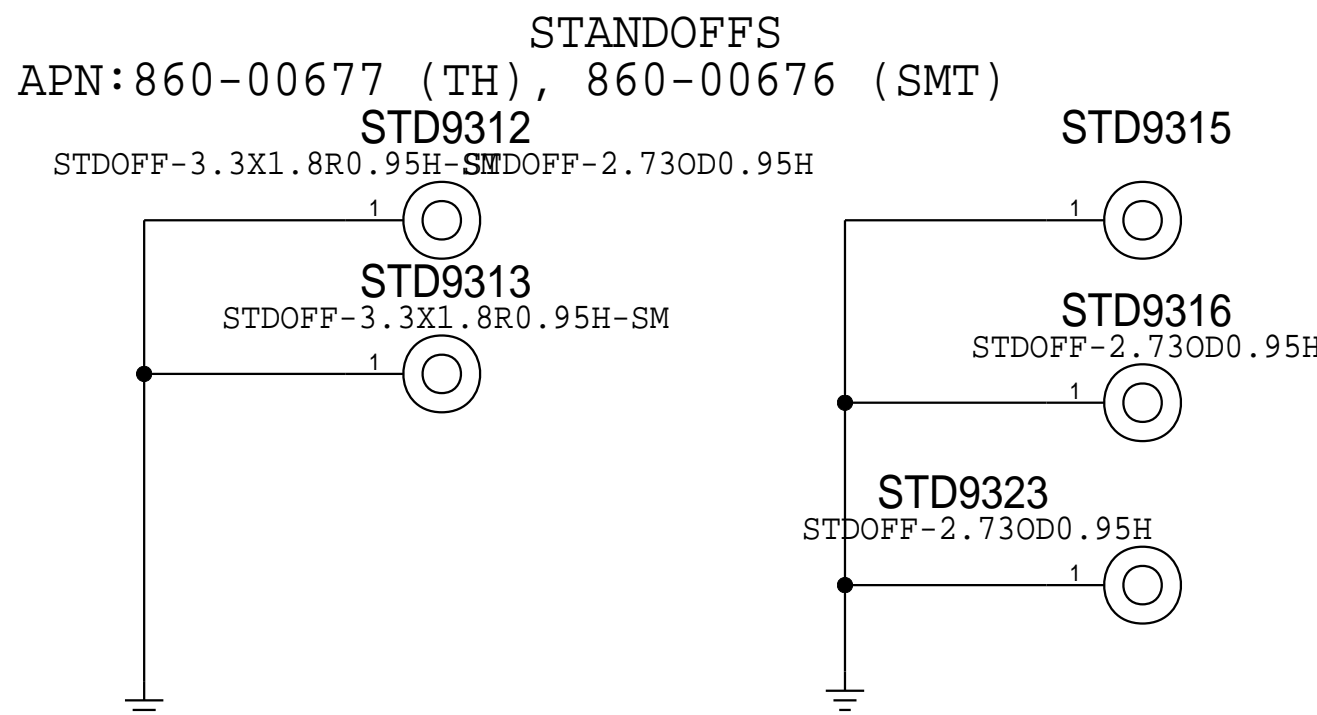
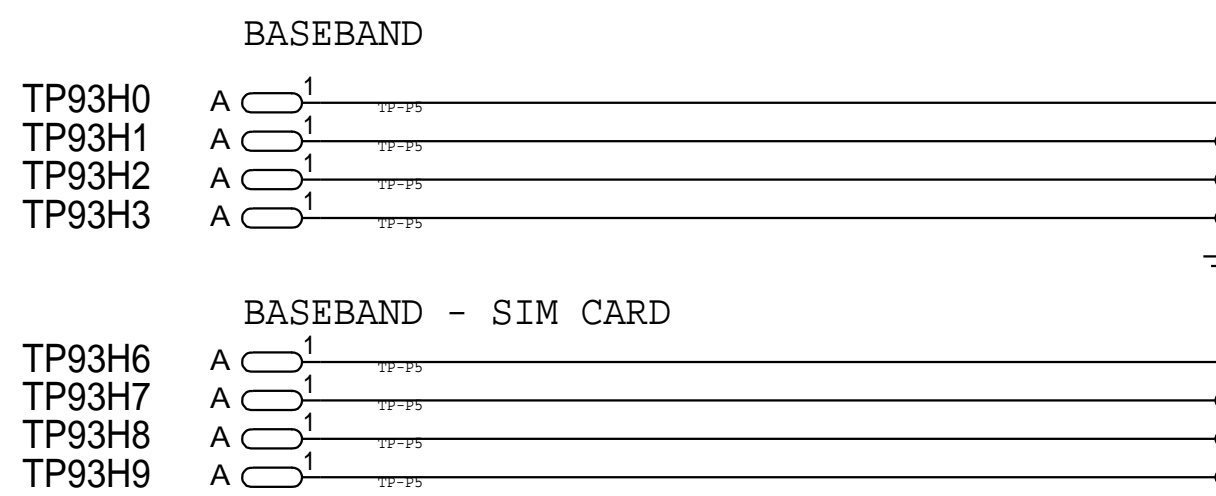
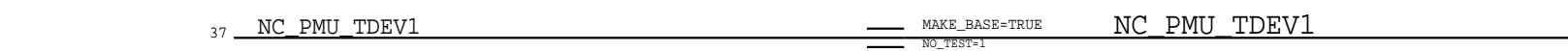
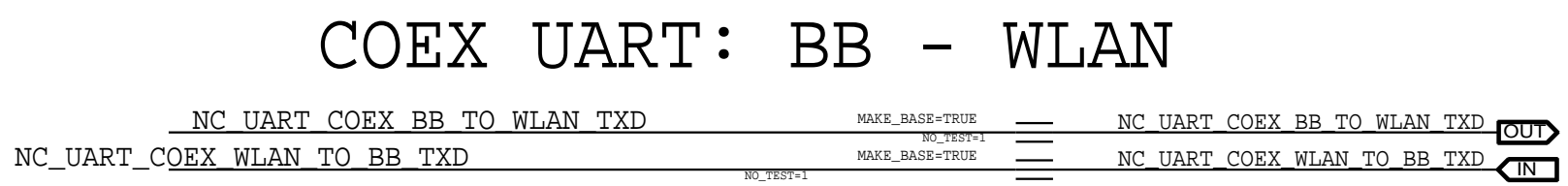
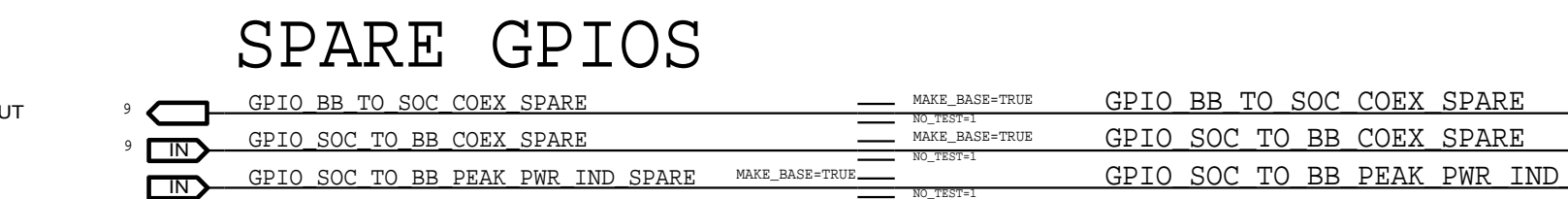
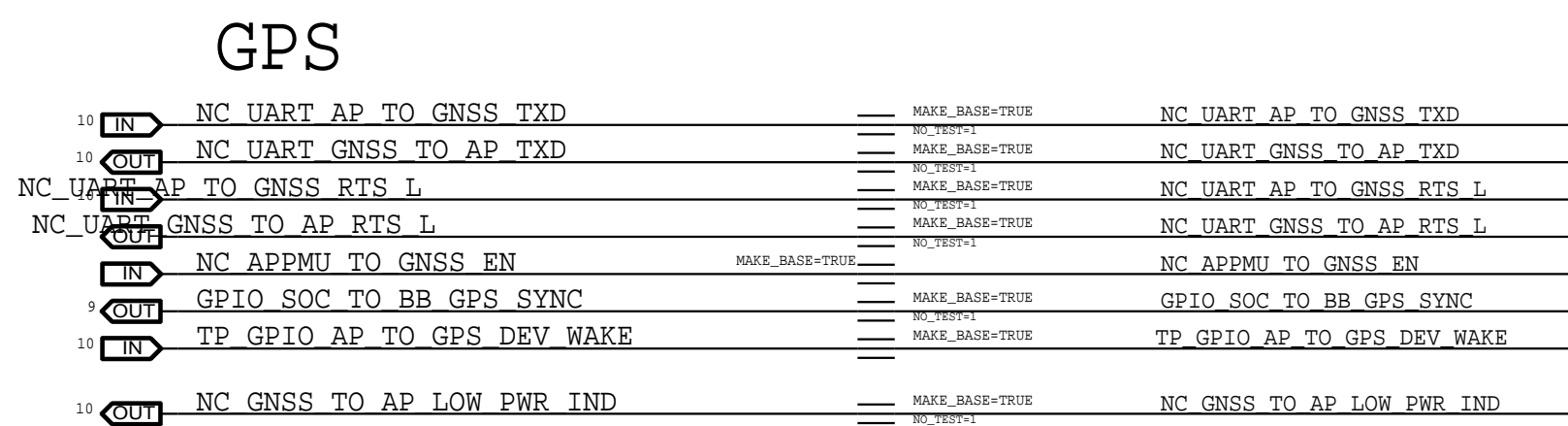
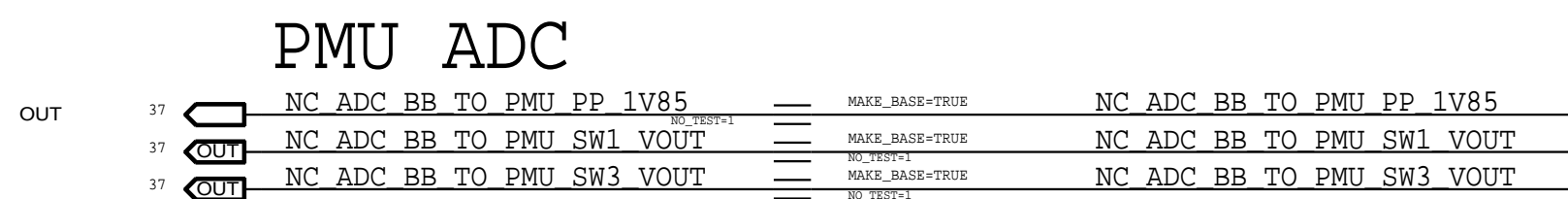
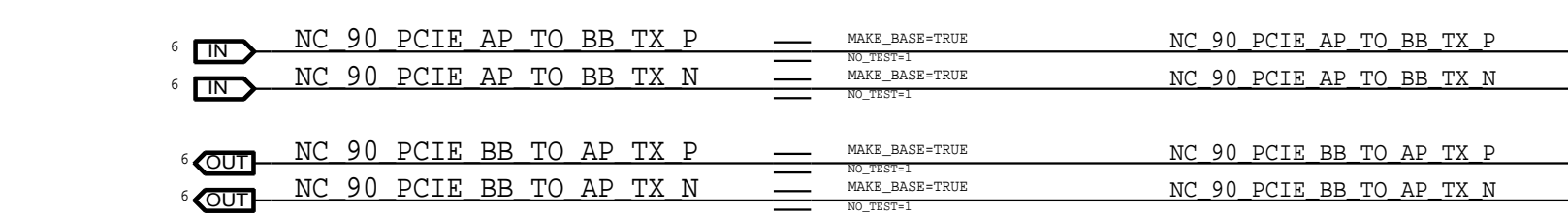
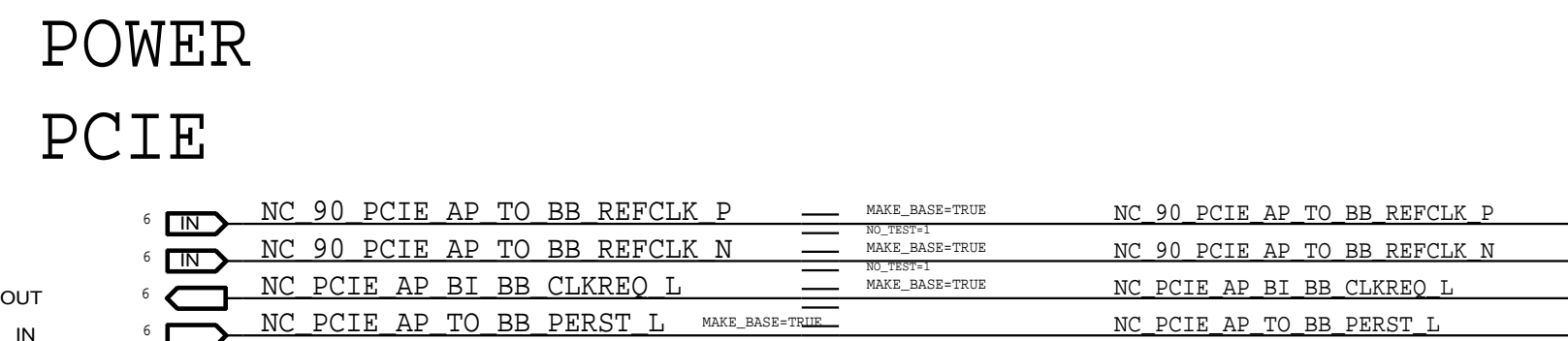
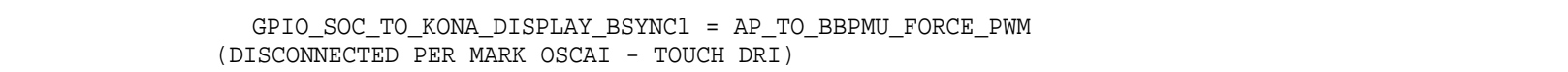
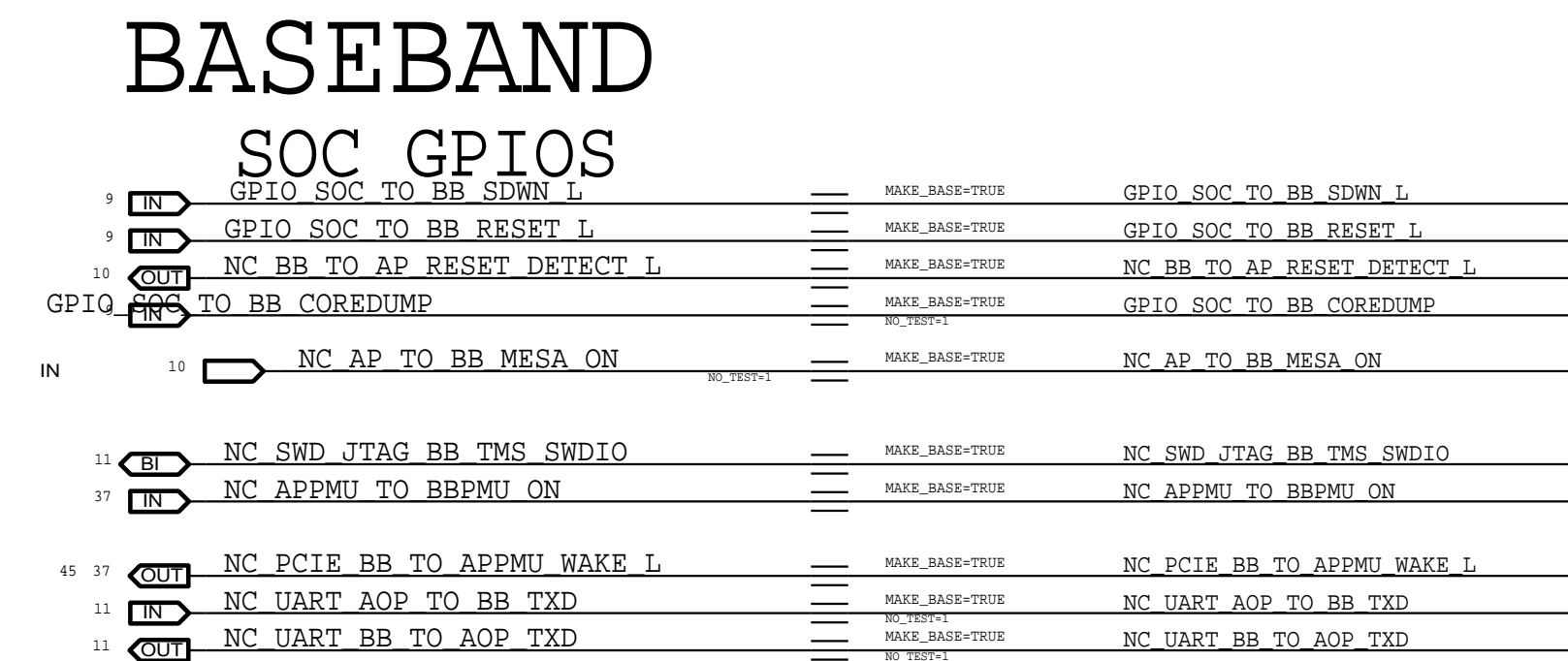
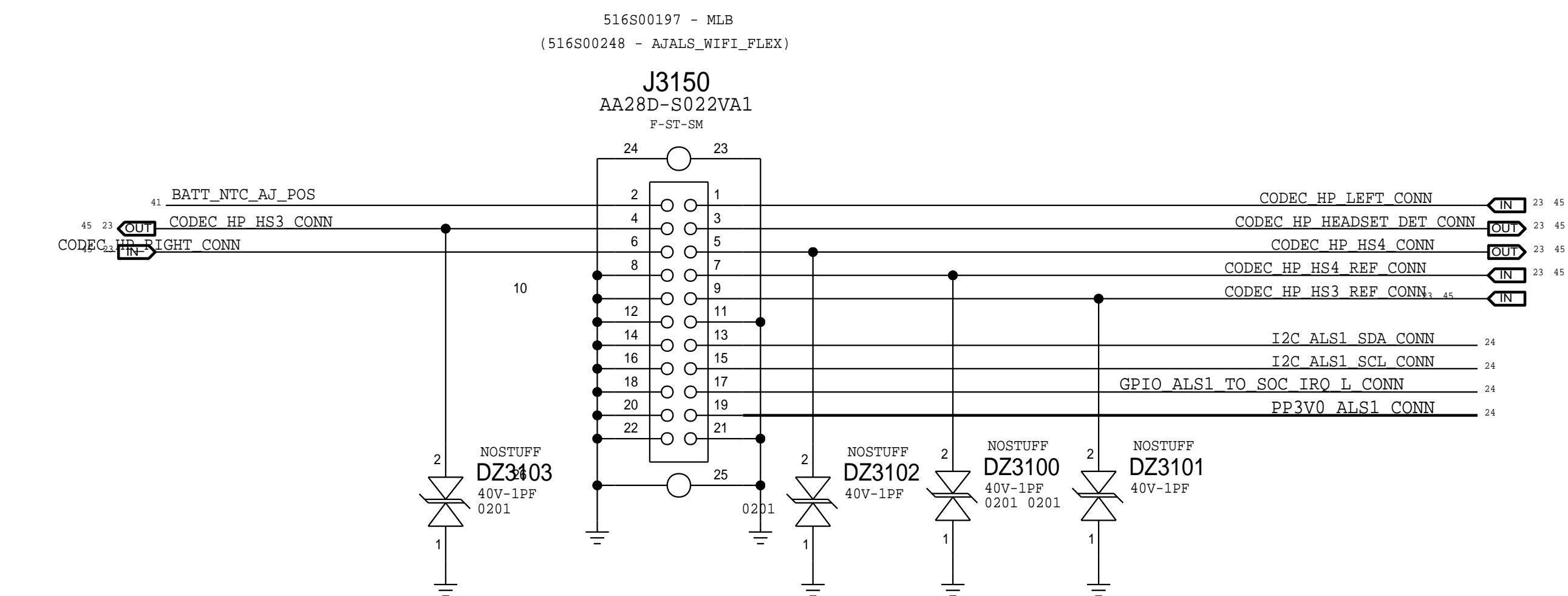
UART





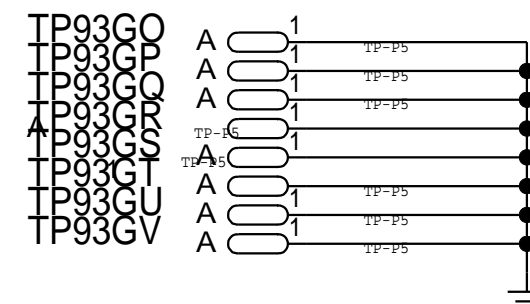
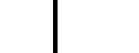
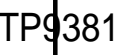
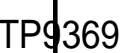
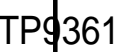
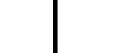
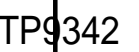
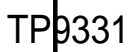
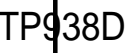
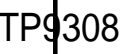
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
806-17487	1	FENCE, MLB, KONA, YY., Z10	TOUCH_FENCE	CRITICAL	
1.806-改裝板主上	AP, YN, Z10		AP_FENC	CRITICAL	

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-7691	1	EEEE FOR (MLB A BEST)	EEEE_KLD1	CRITICAL	BEST
825-7691	1	EEEE FOR (MLB A ULTIMATE)	EEEE_LFLV	CRITICAL	ULTIMATE
1 825-7691	FOR	(MLB A SUPREME)	EEEE_KLD2	CRITICAL	SUPREME
1825-7691	FOR	(MLB A EXTREME)	EEEE_KLD3	CRITICAL	EXTREME



ALTERNATES				
PART NUMBER		ALTERNATE FOR PART NUMBER	BOM REVISION	COMMENTS:
	131S00299	131S00118		
	132S00232	132S00014		
	138S00148	138S00149		
	138S00150	138S00149		
138S00151		138S00149		
138S00086		138S0884		
	155S0660	155S0513		
	371S0685	371S00176		
	376S1245	376S1102		

8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---



EE CHARACTERIZATION PP/TP

SOC

PP9504	P3MM	SM	PP	1	ADC_SOC_TO_PMU_ANALOGMUX_OUT	4, 37
PP950C	P3MM	SM	PP	1	VDDOL_SENSE_POS	13
PP9505	P3MM	SM	PP	1	ADC_SOC_TO_PMU_VDD_SOC	13, 37, 45
PP9506	P3MM	SM	PP	1	SOC_SENSE_NEG	13, 45
PP9507	P3MM	SM	PP	1	ADC_SOC_TO_PMU_VDD_GPU	13, 35, 37, 45
PP9508	P3MM	SM	PP	1	GPU_SENSE_NEG	13, 45
PP9509	P3MM	SM	PP	1	DCS_SENSE_POS	13
PP950A	P3MM	SM	PP	1	ADC_SOC_TO_PMU_VDD_CPU	13, 35, 37, 45
PP950B	P3MM	SM	PP	1	CPU_PCORE_SENSE_NEG	13, 45
PP950E	P3MM	SM	PP	1	PP_SOC_DEBUG2	7
PP950F	P3MM	SM	PP	1	PP_SOC_DEBUG3	7
PP950G	P2MM	SM	PP	1	PP_SOC_AON_SLEEP1_RESET_L	11

HYDRA

PP9503	P2MM	SM	PP	1	TP_HYDRA_EXT_SW_EN	26
--------	------	----	----	---	--------------------	----

CODEC I2S

PP9510	P2MM	SM	PP	1	I2S_AOP_TO_CODEC_BCLK	11, 23
PP9511	P2MM	SM	PP	1	I2S_AOP_TO_CODEC_LRCK	11, 23
PP9512	P2MM	SM	PP	1	I2S_AOP_TO_CODEC_DOUT	11, 23
PP9513	P2MM	SM	PP	1	I2S_CODEC_TO_AOP_DOUT	11, 23

BELFIELD I2S

PP9514	P2MM	SM	PP	1	I2S0_SOC_TO_BELFIELD_BCLK	9, 23
PP9515	P2MM	SM	PP	1	I2S0_SOC_TO_BELFIELD_LRCK	9, 23
PP9516	P2MM	SM	PP	1	I2S0_SOC_TO_BELFIELD_DOUT	9, 23
PP9517	P2MM	SM	PP	1	I2S0_BELFIELD_TO_SOC_DOUT	9, 23
PP9518	P2MM	SM	PP	1	I2S0_SOC_TO_BELFIELD_MCLK	9, 23

CN SPEAKER I2S

PP9525	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_MCLK	9, 25
PP9526	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_BCLK	9, 25
PP9527	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_LRCK	9, 25
PP9528	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_DOUT	9, 25
PP9529	P2MM	SM	PP	1	I2S1_SPKRAMP_CN_TO_SOC_DOUT	9, 25

POTOMAC

PP9539	P2MM	SM	PP	1	SYS_ALIVE	16, 37
--------	------	----	----	---	-----------	--------

AUDIO

PP953A	P2MM	SM	PP	1	GPIO_CODEC_TO_SOC_IRO_L	9, 23
--------	------	----	----	---	-------------------------	-------

BELFIELD SPI LINES

PP9540	P3MM	SM	PP	1	SPI_BELFIELD_CS_L	9, 23
--------	------	----	----	---	-------------------	-------

PP9542	P3MM	SM	PP	1	SPI_BELFIELD_MOSI	9, 23
PP9543	P3MM	SM	PP	1	SPI_BELFIELD_MISO	9, 23

SENSOR SPI LINES

PP9544	P3MM	SM	PP	1	SPI_SENSORS_SCLK	PLACE_NEAR=U2150.2.10MM 11, 17, 34, 46
PP9545	P3MM	SM	PP	1	SPI_SENSORS_MISO	PLACE_NEAR=U0699.A20.10MM
PP9546	P3MM	SM	PP	1	SPI_SENSORS_MOSI	PLACE_NEAR=U2150.3.10MM 11, 17, 34, 46
PP9547	P3MM	SM	PP	1	SPI_SENSORS_SCLK	PLACE_NEAR=U2120.4.10MM 11, 17, 34, 46
PP9548	P3MM	SM	PP	1	SPI_SENSORS_SCLK	PLACE_NEAR=U2140.A3.10MM 11, 17, 34, 46
PP9549	P3MM	SM	PP	1	SPI_SENSORS_MOSI	PLACE_NEAR=U2120.3.10MM 11, 17, 34, 46
PP954A	P3MM	SM	PP	1	SPI_SENSORS_MOSI	PLACE_NEAR=U2140.A4.10MM 11, 17, 34, 46

MESA SPI LINES

PP954B	P3MM	SM	PP	1	SPI_MESA_MISO	4, 23
PP954C	P3MM	SM	PP	1	SPI_MESA_MOSI_CONN	28, 29
PP954D	P3MM	SM	PP	1	SPI_MESA_SCLK_CONN	28, 29

CAMERA - FRONT

PP9560	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_CLK_P	7, 22
PP9561	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_CLK_N	7, 22
PP9562	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_P<0>	7, 22
PP9563	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_N<0>	7, 22
PP9564	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_P<1>	7, 22
PP9565	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_N<1>	7, 22

CAMERA - REAR & MINION

PP9566	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_CLK_P	7, 20
PP9567	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_CLK_N	7, 20
PP9568	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_P<0>	7, 20
PP9569	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_N<0>	7, 20
PP956G	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_P<1>	7, 20
PP956H	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_N<1>	7, 20

PP956A	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_CLK_P	20, 21
PP956B	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_CLK_N	20, 21
PP956C	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_DATA_P<0>	20, 21
PP956D	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_DATA_N<0>	20, 21

PP956E	P2MM	SM	PP	1	GPIO_MINION_TO_SOC_CONFIG_DONE	7, 20, 45
PP956F	P2MM	SM	PP	1	CLK_SOC_TO_MINION_12MHZ	7, 20

GRAPE

PP9580	P3MM	SM	PP	1	SPI_SOC_TO_GRAPE_SCLK	9, 18
PP9581	P3MM	SM	PP	1	SPI_SOC_TO_GRAPE_MISO	9, 18
PP9582	P3MM	SM	PP	1	SPI_SOC_TO_GRAPE_MOSI	9, 18
PP9583	P3MM	SM	PP	1	SPI_SOC_TO_GRAPE_CS_L	9, 18
PP9584	P3MM	SM	PP	1	GPIO_SOC_TO_GRAPE_RESET_L	10, 18
PP9585	P3MM	SM	PP	1	GPIO_GRAPE_TO_SOC_IRO_L	10, 18

PP958C	P3MM	SM	PP	1	KONA_BOOST_ATEST	18
--------	------	----	----	---	------------------	----

PP958L	P3MM	SM	PP	1	TP_KONA_GPIO_ADC_03	18
PP958M	P3MM	SM	PP	1	CLK_KONA_M_24MHZ	18
PP958N	P3MM	SM	PP	1	GPIO_SOC_TO_GRAPE_BSYNCO	18, 28
PP958P	P3MM	SM	PP	1	GPIO_SOC_TO_GRAPE_BSYNC1	18, 28

GRAPE POWER

PP958R	P3MM	SM	PP	1	PP3V3_GRAPE_FILT	18
PP958S	P3MM	SM	PP	1	PP1V8_GRAPE_XTAL_FILT	18
PP958T	P3MM	SM	PP	1	KONA_M_VDDCORE_CAP	18

PP958V	P3MM	SM	PP	1	PP1V8_GRAPE_AON_RC	18
--------	------	----	----	---	--------------------	----

NAND PCIE TPS

PP95D4	P2MM	SM	PP	1	PLACE_NEAR=U1200.K11.3MM	PCIE_SOC_TO_NAND1_REFCLK_P 6, 16
PP95D5	P2MM	SM	PP	1	PLACE_NEAR=U1200.L12.3MM	PCIE_SOC_TO_NAND1_REFCLK_N 6, 16
PP95D6	P2MM	SM	PP	1	PLACE_NEAR=U1200.E6.20MM	PCIE_SOC_TO_NAND1_RESET_L 16
PP95D7	P2MM	SM	PP	1	PLACE_NEAR=U1200.L4.20MM	NAND1_ANI1_VREF 16
PP95D8	P2MM	SM	PP	1	PLACE_NEAR=U1200.G12.20MM	NAND1_ANIO_VREF 16

PP95DI	P2MM	SM	PP	1	PLACE_NEAR=U1800.C4.20MM	GPIO_SOC_TO_NAND_FW_STRAP 5, 16
PP95DJ	P2MM	SM	PP	1	PLACE_NEAR=U1800.L4.20MM	GPIO_SOC_TO_NAND_RESET_L 5, 16

PMU/POTOMAC

PP95G1	P2MM	SM	PP	1	GPIO_PMU_TO_SOC_IRO_L	11, 37
PP95G2	P2MM	SM	PP	1	GPIO_POTOMAC_TO_PMU_WAKE	37, 38
PP95G3	P2MM	SM	PP	1	GPIO_POTOMAC_TO_SMC_TO_PMU_IRO_L	9, 37, 38
PP95G4	P2MM	SM	PP	1	HYDRA_OVP_SW_EN_R_L	34, 38
PP95G5	P2MM	SM	PP	1	GPIO_PMU_TO_POTOMAC_LINCH_EN	37, 38
PP95G6	P2MM	SM	PP	1	ATLAS_FAULT_OUT_L	37
PP95G7	P2MM	SM	PP	1	USB_VBUS_DETECT	5, 38

WIFI

PP95BL	P2MM	SM	PP	1	GPIO_SOC_TO_BT_TO_GRAPE_TS_SYNC	10, 18, 30, 31, 43
PP95BM	P2MM	SM	PP	1	GPIO_TOUCH_TO_BT_SYNC	18, 30, 31, 43

WLAN PCIE TPS

PP95E0	P2MM	SM	PP	1	PLACE_NEAR=U0600.BF11.3MM	PCIE_WLAN_TO_SOC_TX_P 6, 43
PP95E1	P2MM	SM	PP	1	PLACE_NEAR=U0600.BE11.3MM	PCIE_WLAN_TO_SOC_TX_N 6, 43
PP95E2	P2MM	SM	PP	1	PLACE_NEAR=U0600.BF38.4MM	PCIE_WLAN_TO_SOC_CLKREQ_L 6, 43

PP95E7	P2MM	SM	PP	1	PLACE_NEAR=U0600.67.3MM	PCIE_SOC_TO_WLAN_RESET_L 6, 43
--------	------	----	----	---	-------------------------	--------------------------------

SYNCH_MASTER=2211_NCLA_B SYNCH_DATE=09/10/2018

PAGE TITLE TEST: EE TP/PP

POWER CONNECTIONS

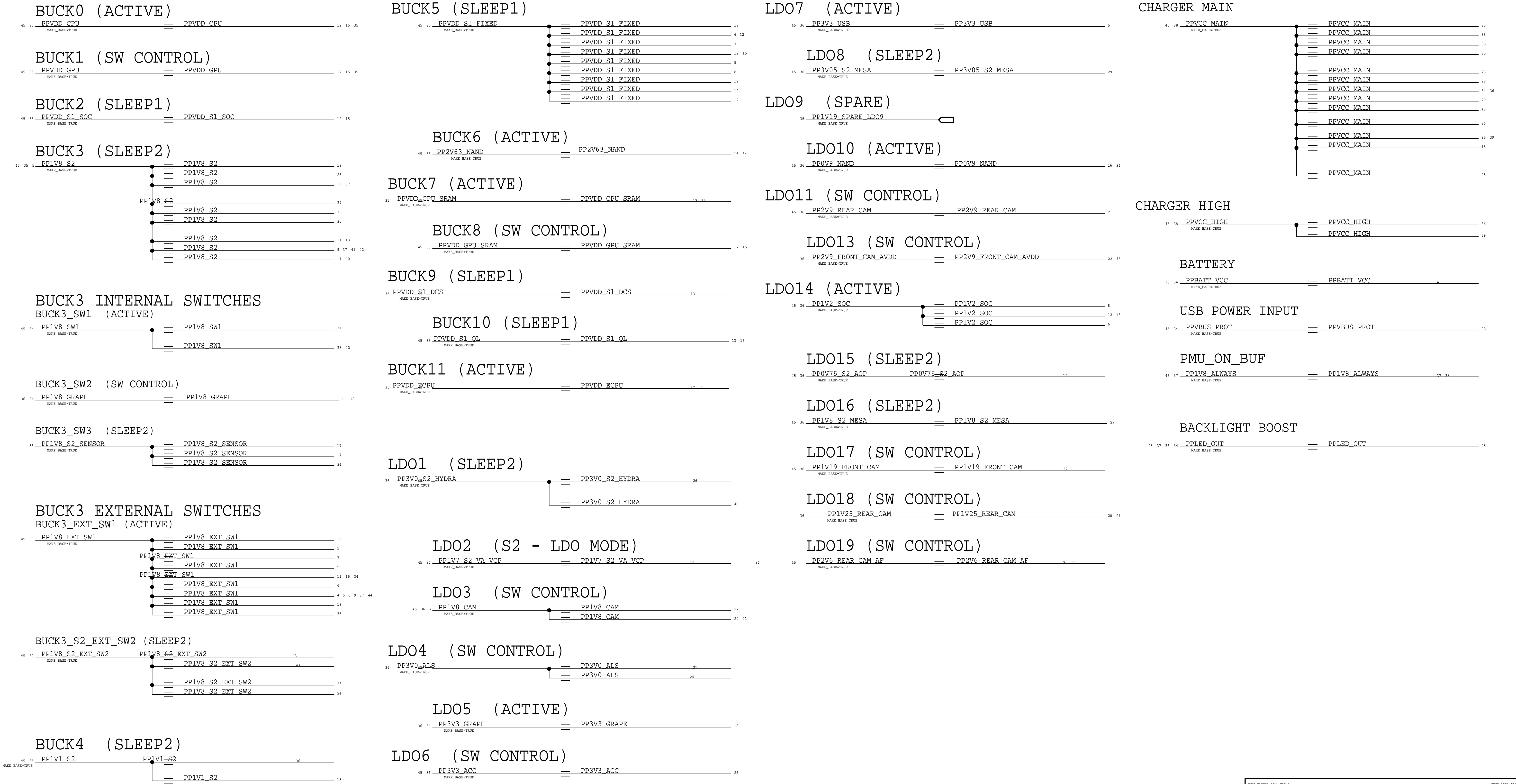
D

D

C

B

A



8

7

6

5

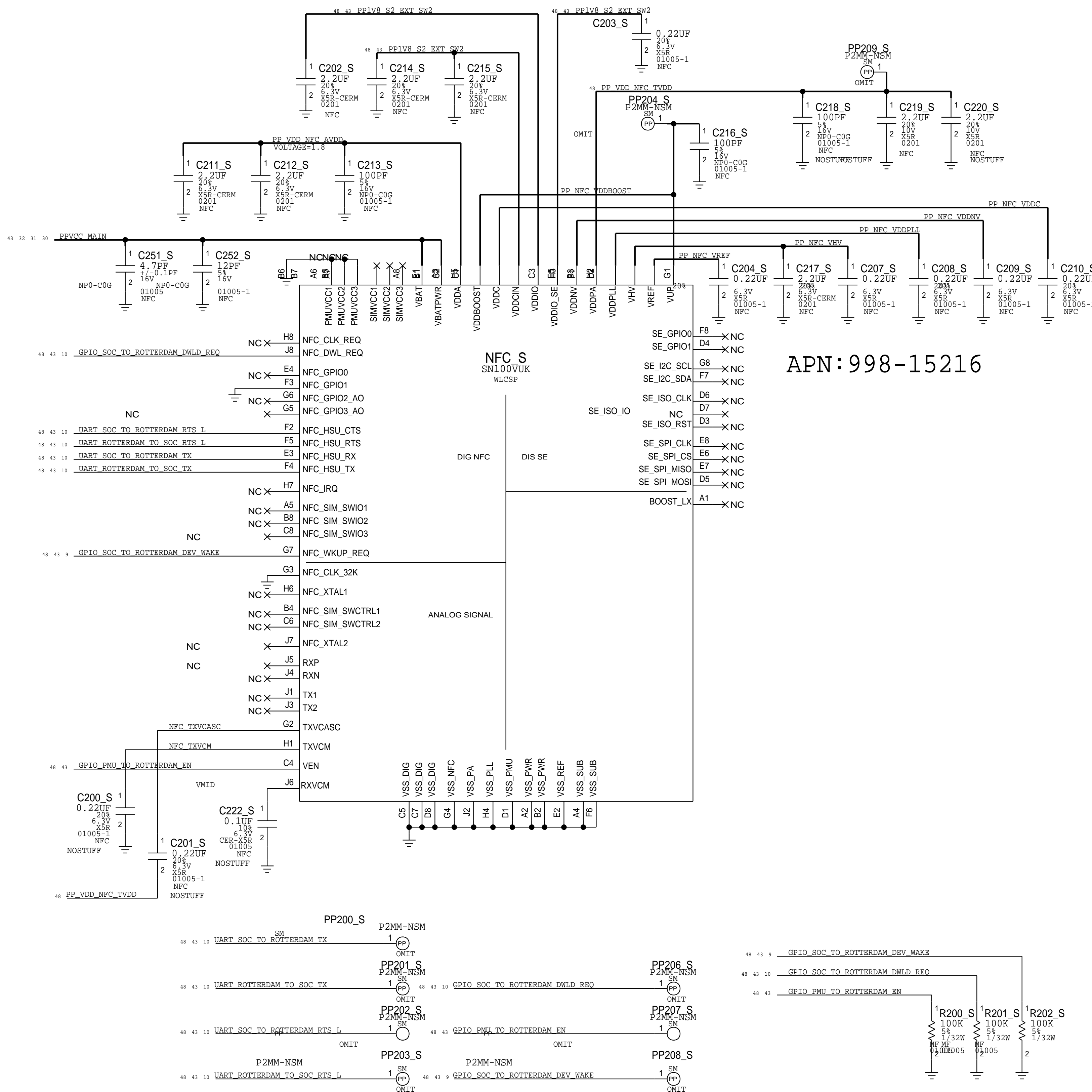
4

3

2

1

VENUS



APN: 998-15216