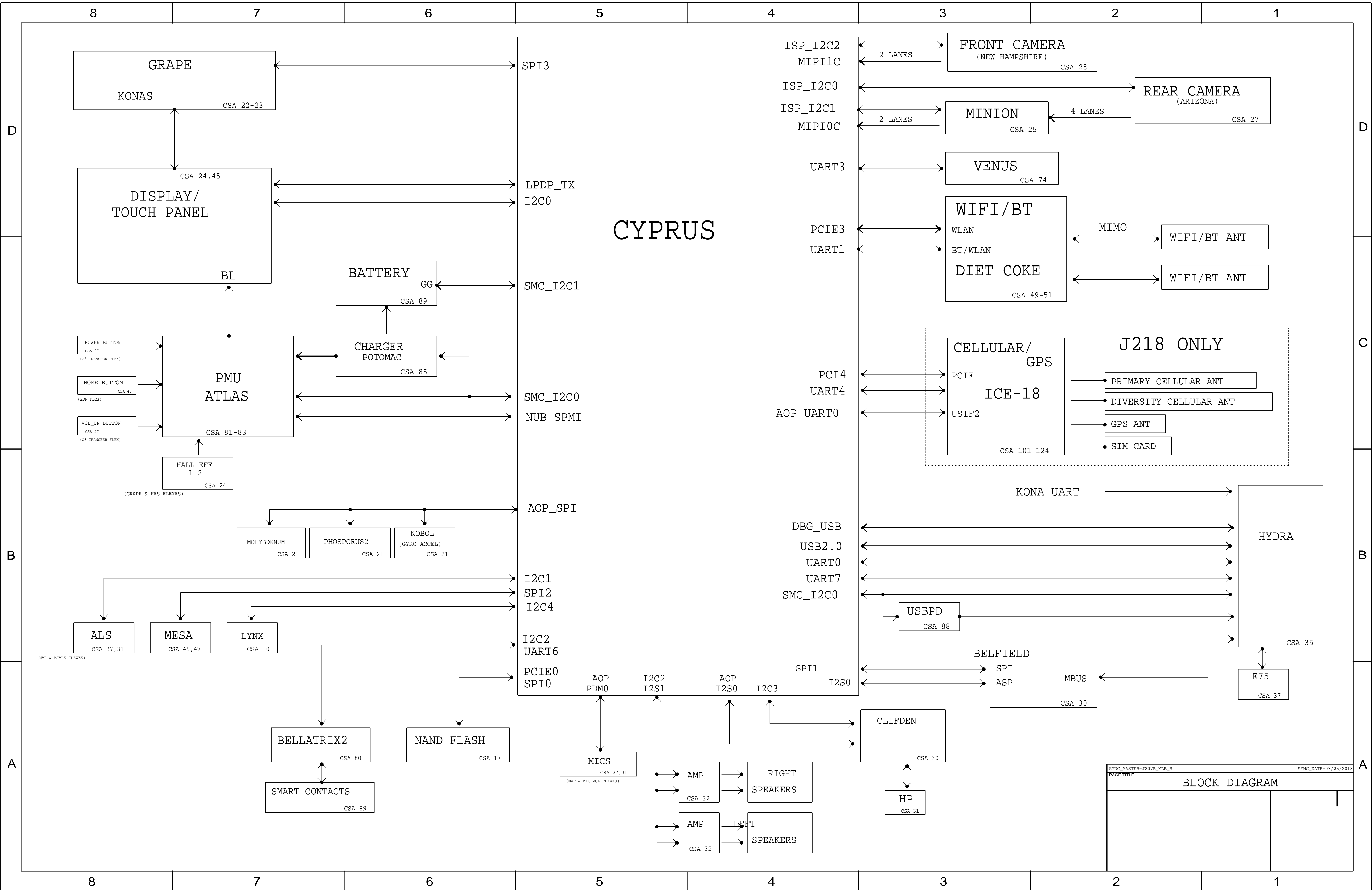


8		7		6		5		4		3		2		1																			
1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.												REV	ECN	DESCRIPTION OF REVISION	CK APPD DATE																		
												5	0014262036	ENGINEERING RELEASED	2018-10-01																		
J217: MLB-B LAST_MODIFICATION=Mon Oct 1 10:33:31 2018																																	
D	4	PAGE CSA		CONTENTS	SYNC	DATE	54	PAGE CSA		CONTENTS	SYNC	DATE	54	C	B																		
		1	1	TABLE OF CONTENTS				51	102	BOM TABLES	RADIO_MLB_0.11.0	10/01/2018																					
		2	2	BLOCK DIAGRAM	J207B_MLB_B	03/25/2018		52	103	BBPMU: CONTROL	RADIO_MLB_0.11.0	10/01/2018																					
		3	4	BOM TABLES	J211_MLB_B	07/05/2018		53	104	BBPMU: RAILS	RADIO_MLB_0.11.0	10/01/2018																					
		5		SOC: MISC & ALIASES	J207B_MLB_B	07/30/2018		105		BB: INTERFACE	RADIO_MLB_0.11.0	10/01/2018																					
		5	6	SOC: JTAG,USB,XTAL	J211_MLB_B	07/05/2018		55	106	BB: DDR PWR & JTAG	RADIO_MLB_0.11.0	10/01/2018																					
		6	7	SOC: PCIE	J211_MLB_B	07/05/2018		56	107	BB: DIGITAL PWR	RADIO_MLB_0.11.0	10/01/2018																					
		7	8	SOC: MIPI	J211/MLB_B_6.14.0	09/18/2018		57	108	XCVR: TX & GNSS	RADIO_MLB_0.11.0	10/01/2018																					
		8	9	SOC: LPDP	J211_MLB_B	07/05/2018		58	109	XCVR: INTERFACE & PWR	RADIO_MLB_0.11.0	10/01/2018																					
		9	10	SOC: SERIAL	J211_MLB_B	07/05/2018		59	110	XCVR: PRX DRX	RADIO_MLB_0.11.0	10/01/2018																					
B	15	10	11	SOC: GPIO & UART	J211_MLB_B	07/05/2018	60	111	HW CONFIG OPTIONS	RADIO_MLB_0.11.0	10/01/2018	54	C	B																			
		11	12	SOC: AOP	J211_MLB_B	07/05/2018	61	112	ET	RADIO_MLB_0.11.0	10/01/2018																						
		12	13	SOC: POWER (1/3)	J211_MLB_B	07/05/2018	62	113	LB SPAD	RADIO_MLB_0.11.0	10/01/2018																						
		13	14	SOC: POWER (2/3)	J211_MLB_B	07/05/2018	63	114	HB SPAD	RADIO_MLB_0.11.0	10/01/2018																						
		14	15	SOC: POWER (3/3)	J211_MLB_B	07/05/2018	64	115	UHB LMB SPAD	RADIO_MLB_0.11.0	10/01/2018																						
		16		SOC: BOTTOM SIDE DECAPS	J211_MLB_B_5.4.0	08/23/2018	116		LB DIVERSITY RECEIVE LNA	RADIO_MLB_0.11.0	10/01/2018																						
		17		NAND: S4E NAND	J211_MLB_B	07/05/2018	117		HB DIVERSITY RECEIVE LNA	RADIO_MLB_0.11.0	10/01/2018																						
		21		SENSOR: KOBOL, PHOS2	J211_MLB_B	07/05/2018	118		LOWER ANTENNA & COUPLER	RADIO_MLB_0.11.0	10/01/2018																						
		18	22	TOUCH: KONA MASTER	J207B_MLB_B	03/25/2018	68	119	UPPER ANTENNA FEEDS	RADIO_MLB_0.11.0	10/01/2018																						
		19	23	TOUCH: KONA SLAVE	J207_MLB_B_ARUBA	03/05/2018	69	120	TEST POINTS	RADIO_MLB_0.11.0	10/01/2018																						
A	24	20	24	TOUCH: GRAPE CONN	J207B_MLB_B	03/25/2018	70	121	VENUS	RADIO_MLB_0.11.0	10/01/2018	54	C	B																			
		21	25	CAMERA: MIPI BRIDGE	J211_MLB_B_4.1.0	07/29/2018	71	122	SIM: ESIM	RADIO_MLB_0.11.0	10/01/2018																						
		22	27	FLEX CONNS: CORNER 3	J207B_MLB_B	03/25/2018	72	123	18.8 TRIPLEXER & ANT1 & 2	RADIO_MLB_0.11.0	10/01/2018																						
		23	28	CAMERA: FRONT	J211_MLB_B	07/05/2018																											
		30		AUDIO: CLIFDEN, BELFIELD	J211_MLB_B	07/05/2018																											
		25	31	FLEX CONNS: C4 & DMIC	J207B_MLB_B	03/25/2018																											
		26	32	AUDIO: SPEAKER AMPS (CN)	J211_MLB_B	07/05/2018																											
		27	35	IO: HYDRA	J211_MLB_B	07/05/2018																											
		28	37	IO: HOTBAR,SIM,XBAR	J207B_MLB_B	03/25/2018																											
		29	45	DISPLAY CONN	J207B_MLB_B	03/25/2018																											
A	35	30	46	DISPLAY: EDP SUPPORT	J207B_MLB_B	03/25/2018						54	C	B																			
		31	47	SENSOR: MESA	J211_MLB_B	07/05/2018																											
		32	49	J217+J218 WiFi+BT_GNSS	WIFI_MLB_0.22.0	09/26/2018																											
		33	50	J217+J218: Diet Coke Primary Module	WIFI_MLB_0.22.0	09/26/2018																											
		34	51	J218: Remote FEMs	WIFI_MLB_0.22.0	09/26/2018																											
		52		J218: Front End	WIFI_MLB_0.22.0	09/26/2018																											
		80		ORION & J217-J218 UNIQUE	J207_MLB_B_ARUBA	03/05/2018																											
		81		POWER: ATLAS (1/3)	MLB_B_5.1.0	08/15/2018																											
		38	82	POWER: ATLAS (2/3)	J211_MLB_B	07/05/2018																											
		39	83	POWER: ATLAS (3/3)	J211_MLB_B	07/05/2018																											
A	37	40	85	POWER: CHARGER	J211_MLB_B	07/05/2018						54	C	B																			
		41	86	POWER: EXTERNAL SWITCHES	J211_MLB_B	07/05/2018																											
		42	88	POWER: USB PD	J211_MLB_B	07/05/2018																											
		43	89	POWER: BATTERY & ORION CONN	J207B_MLB_B	03/25/2018																											
		90		SOC: DEBUG	J211_MLB_B	07/05/2018																											
		45	91	ALIASES: WLAN/BT	J211_MLB_B	07/05/2018																											
		46	92	BASEBAND UNIQUE	J207B_MLB_B	03/25/2018																											
		47	93	TEST: TPS/HOLES/FIDUCUALS	J211_MLB_B	07/05/2018																											
		48	95	TEST: EE TP/PP	J211_MLB_B	07/05/2018																											
		49	99	POWER: ALIASES	J211_MLB_B	07/05/2018																											
A	50	101		ANTENNA DIAGRAM	RADIO_MLB_0.11.0	10/01/2018						54	C	B																			
TABLE OF CONTENTS SYNC_MASTER=J207_MLB_B_ARUBA SYNC_DATE=03/05/2018 DRAWING TITLE SCHEM,MLB-B,NY,J218																																	
SCH AND BOARD P/N																																	
<table><tr><td>PART#</td><td>QTY</td><td>DESCRIPTION</td><td>REFERENCE DESIGNATOR(S)</td><td>CRITICAL</td><td>BOM OPTION</td></tr><tr><td>051-04064</td><td>1</td><td>SCHEM,MLB-B,NY,J217</td><td>SCH1</td><td>CRITICAL</td><td></td></tr><tr><td>1820-01531</td><td></td><td>PCB,F,MLB-B,NY,J217</td><td>PCB1</td><td>CRITICAL</td><td></td></tr></table>																PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION	051-04064	1	SCHEM,MLB-B,NY,J217	SCH1	CRITICAL		1820-01531		PCB,F,MLB-B,NY,J217	PCB1	CRITICAL	
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION																												
051-04064	1	SCHEM,MLB-B,NY,J217	SCH1	CRITICAL																													
1820-01531		PCB,F,MLB-B,NY,J217	PCB1	CRITICAL																													



D

CKPLUS WAIVE TABLE

CKPLUS RULE EXCEPTIONS	REQUIRED
SCHEMATIC DEFINED CONSTRAINTS (YES/NO)	NO

B

A

ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
371S0730	371S00172			D82P0
155S00200	155S00400		FL2860	
155S00194	155S00400			FL2860
128S00067	128S00094			C81C0-2
128S00069	128S00094			C81C0-2
155S0755	155S00341			FL2700-2, FL4540, FL4710
131S00172	131S00164			Z20FF, 16V, 01005
131S00173	131S00164		C2743, C2801, ...	
376S00159	376S00311			Q8061
377S0116	377S00132			D23540
138S00116	138S00071			C810D-E,...
138S00117	138S00071			C810D-E,...
138S00143	138S00144			C81A0-4,...
138S00163	138S00144			C81A0-4,...
138S00138	138S00139		C133A-B,...	
138S00164	138S00139			C133A-B,...
138S00084	138S00060			C8563-69,...
152S01037	152S00887			L8101-03,...
132S00229	132S00010			C8555-57
152S00963	152S00885		L8190, A0	
372S0194	372S0187			Q3790, Q8990
376S00319	376S00104			Q2201
376S00182	376S00126			Q8580
155S0664	155S00018			FL2742, 48,...
152S00964	152S00888		L8121, 41	
152S01003	152S00888			L8121, 41

NOMAN'S UPDATED LIST

131S00299	131S00118			
132S00232	132S00014			
138S00148	138S00149			
138S00150	138S00149			
138S00151	138S00149			
138S00049	138S0831			
138S00086	138S0884			
155S0660	155S0513			
197S00120	197S00118			
371S0685	371S00176			
376S1245	376S1102			

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S00544	1	POP, CYPRESS+3GB 18NM, B1, M, DEV, CSP1262	U0600	CRITICAL	
PART NUMBER		ALTERNATE FOR PART NUMBER	BOM OPTIONS	COMMENTS:	
339S00545		339S00544	00600		HYNIX
339S00546		339S00544		00600	SAMSUNG

NAND

BEST FLASH CONFIGURATIONS (64GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00286	1	NAND, 3DV3, 64GBT, 848, 256G, SD, SLGA110	U1700	CRITICAL	BEST
PART NUMBER		ALTERNATE FOR PART NUMBER	BOM OPTIONS	COMMENTS:	
335S00359		335S00286		U1700	TOSHIBA

ULTIMATE FLASH CONFIGURATIONS (128GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00357	1	NAND, 3DV3, 128GBT, 848, 256G, T, SLGA110	U1700	CRITICAL	ULTIMATE
PART NUMBER		ALTERNATE FOR PART NUMBER	BOM OPTION	COMMENTS:	
335S00246		335S00357	U1700	WD	

SUPREME FLASH CONFIGURATIONS (256GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00247	1	NAND, 3DV3, 256GBT, 848, 256G, SD, SLGA110	U1700	CRITICAL	SUPREME
PART NUMBER		ALTERNATE FOR PART NUMBER	BOM OPTIONS	COMMENTS:	
335S00358		335S00247	U1700	TOSHIBA	

EXTREME FLASH CONFIGURATIONS (512GB)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00339	1	NAND, 3DV4, 512GBT, 848, 512G, SD, SLGA110	U1700	CRITICAL	EXTREME
PART NUMBER		ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00343		335S00339	U1700	HYNIX	

CCG2

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
341S01186	1	PROM ASSY, IC, CCG2, FW, CYPRESS, V0.3, CSP20	U8809	CRITICAL	

KOBOL

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S00367	1	IC, KOBOL, BM1282AA, LGR16	U2150	CRITICAL	KOBOL

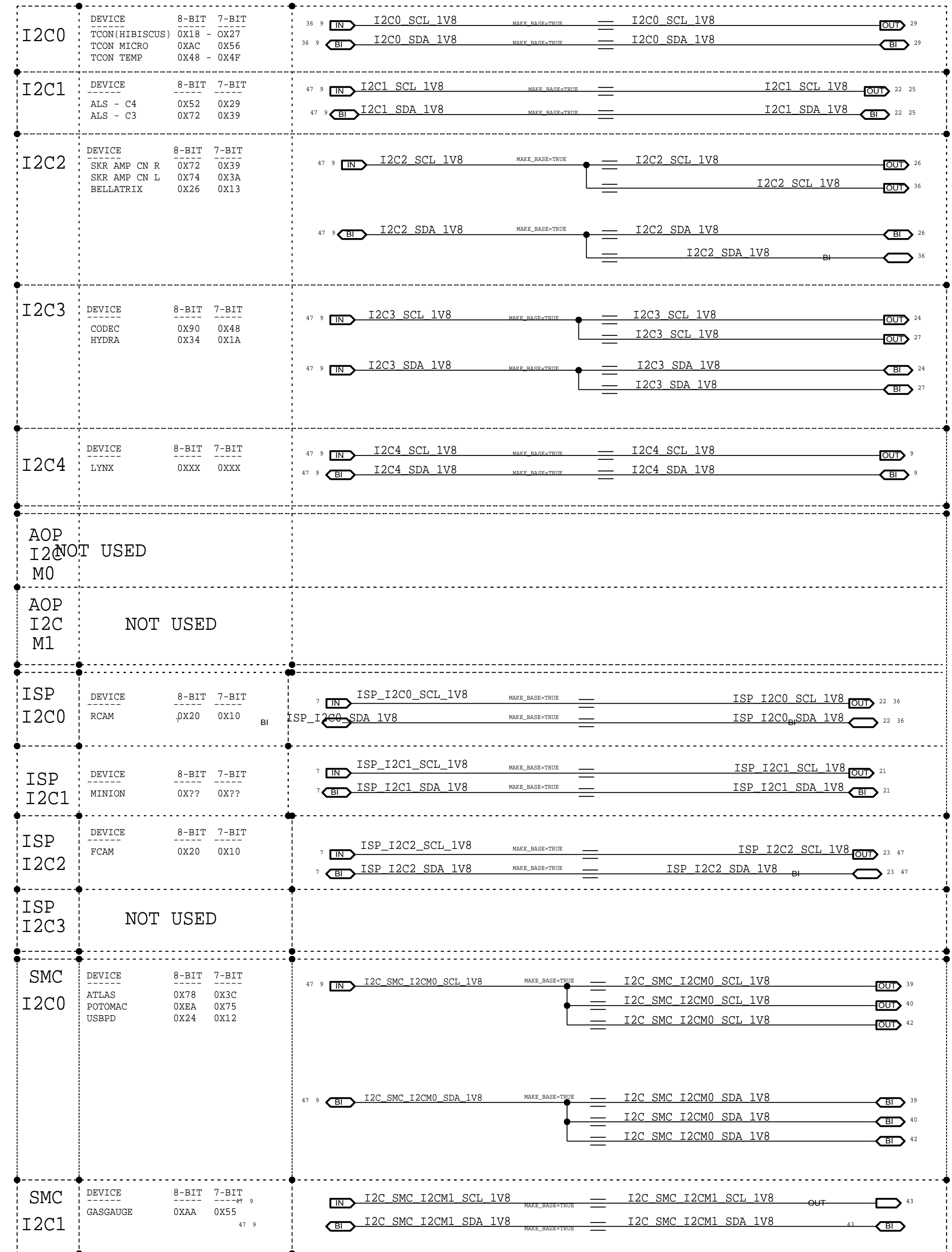
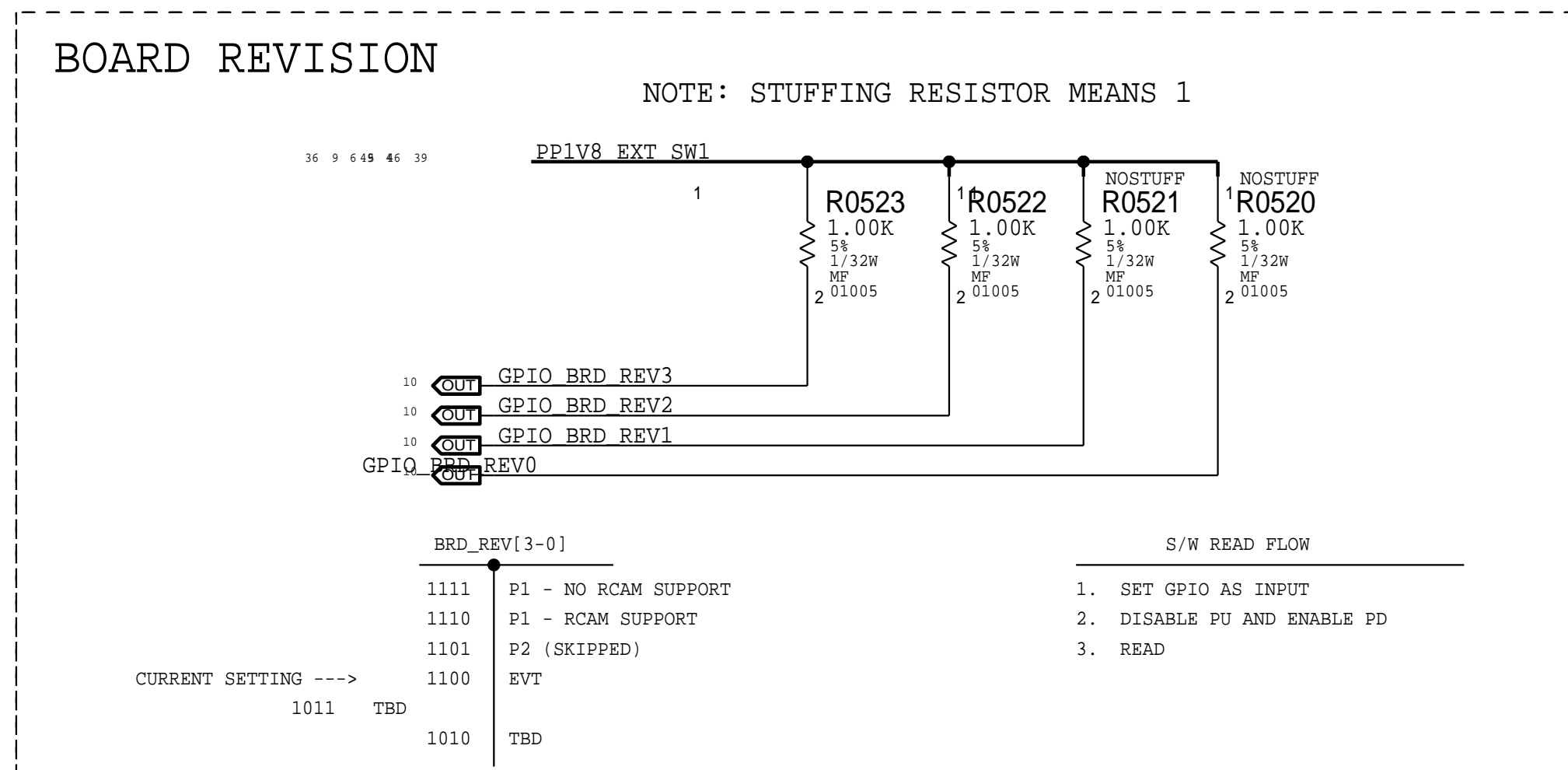
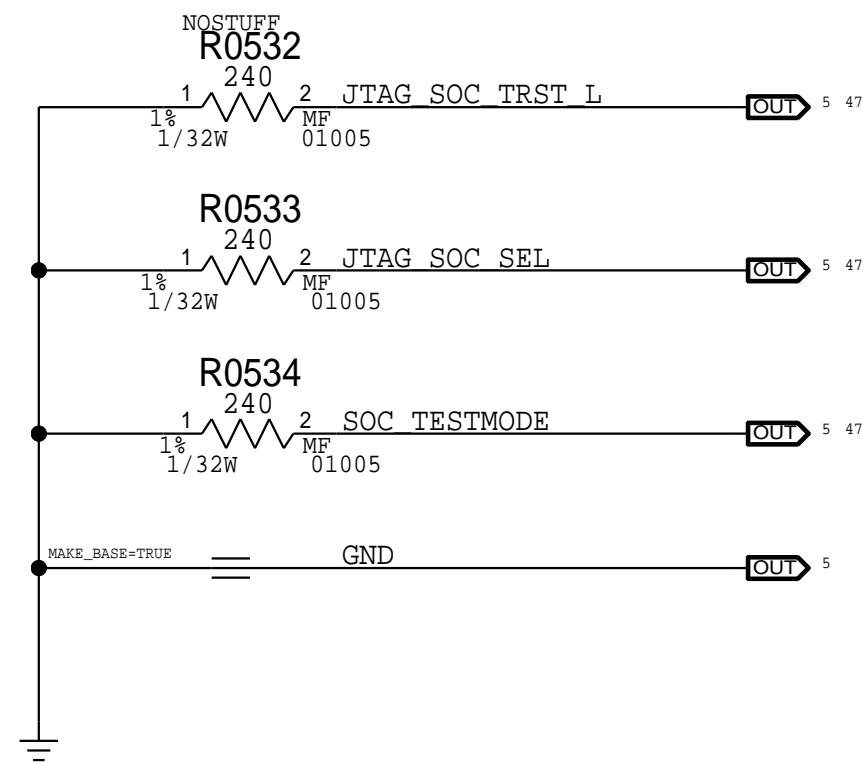
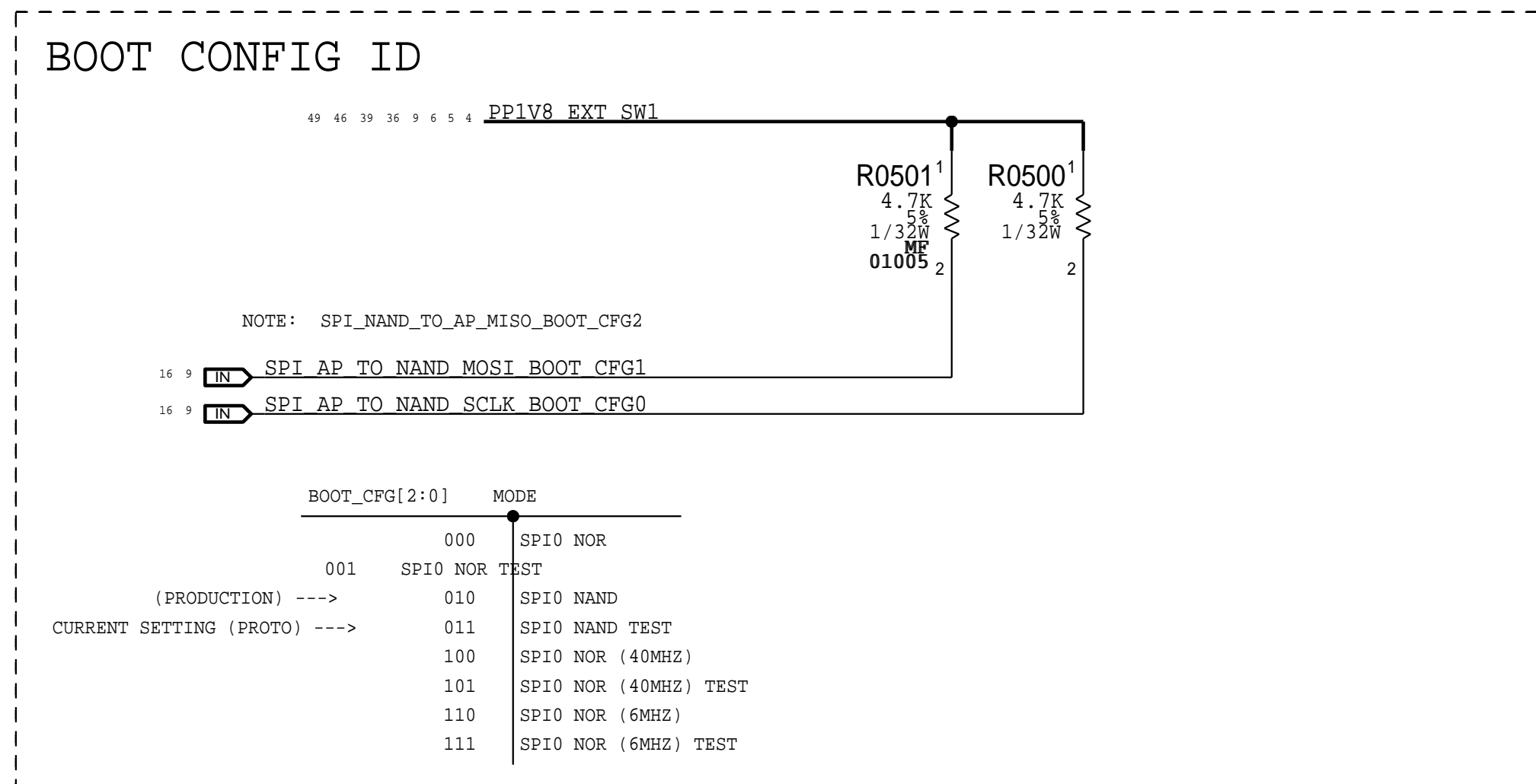
BOM TABLES

D

C

B

A



SYNC_MASTER=J2078_MIS_B		SYNC_DATE=07/30/2018
PAGE TITLE		
SOC: MISC & ALIASES		

D



A

D

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A

SOC - PCIE

VDD12_PCIE:1.14V - 1.26V @ 60mA MAX
VDD12_PCIE_REFBUF:1.08V - 1.26V @ 20mA MAX

VDD_FIXED_PCIE:0.769V - 0.85V @ 60mA MAX
VDD_FIXED_PCIE_REFBUF:0.769V - 0.85V @ 50mA MAX
PPVDD_S1_FIXED

D

D

B

B

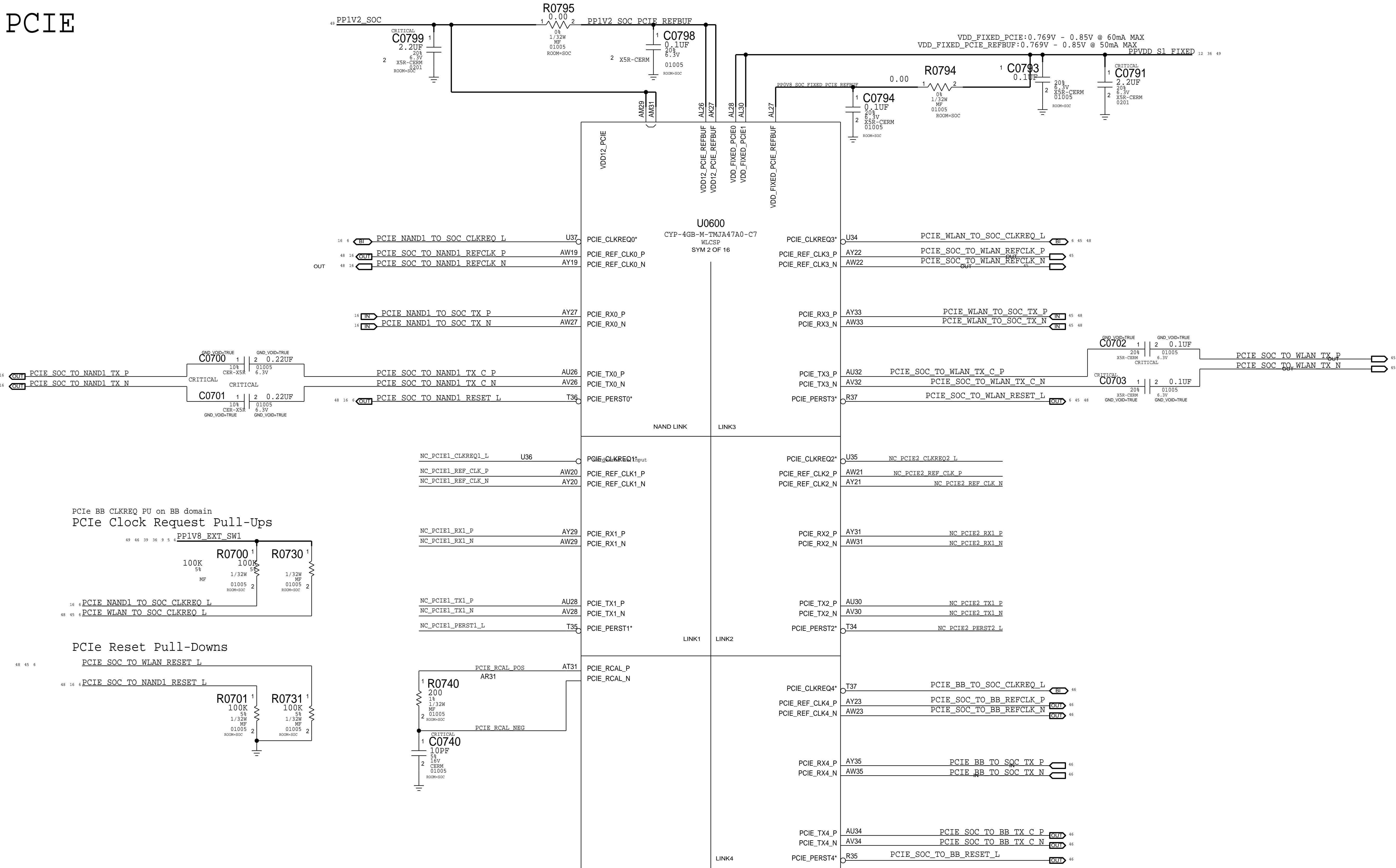
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A

PCIE LINK 0

PCIE LINK 3

PCIE LINK 4



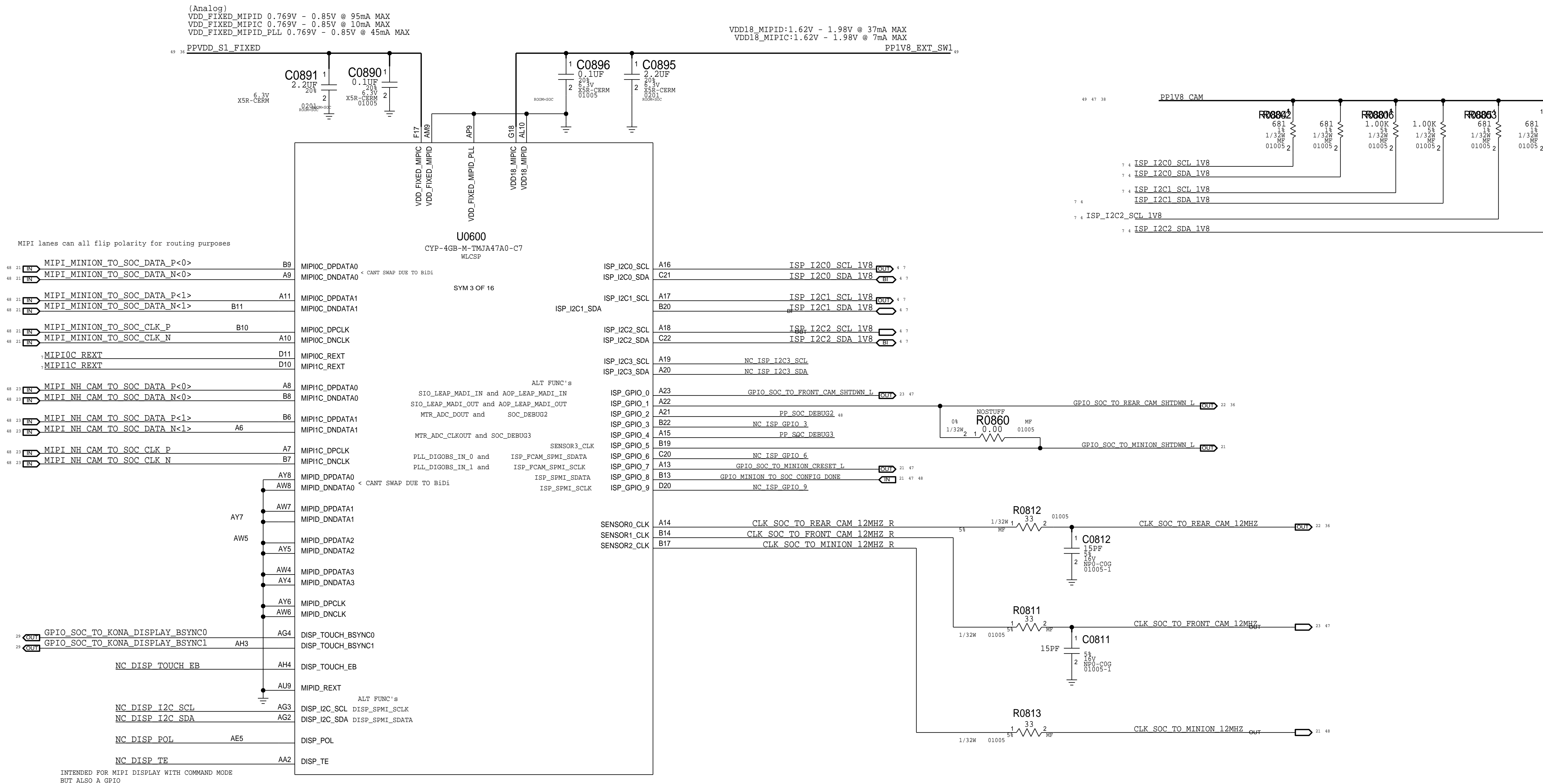
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DATE=07/05/2018

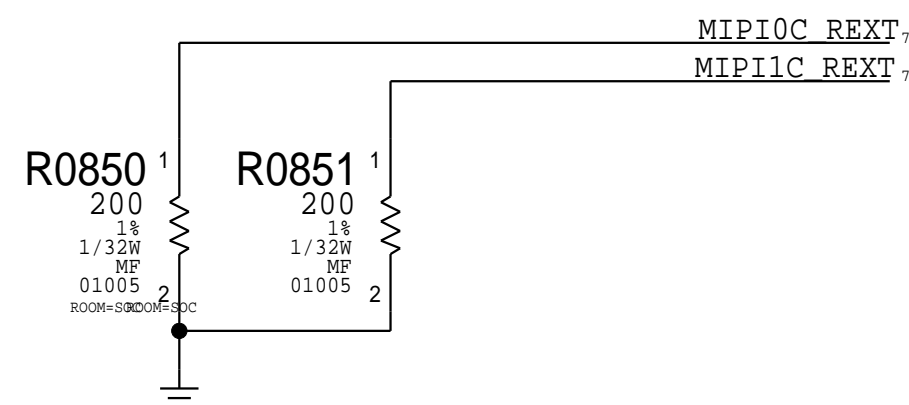
PAGE TITLE

SOC: PCIE

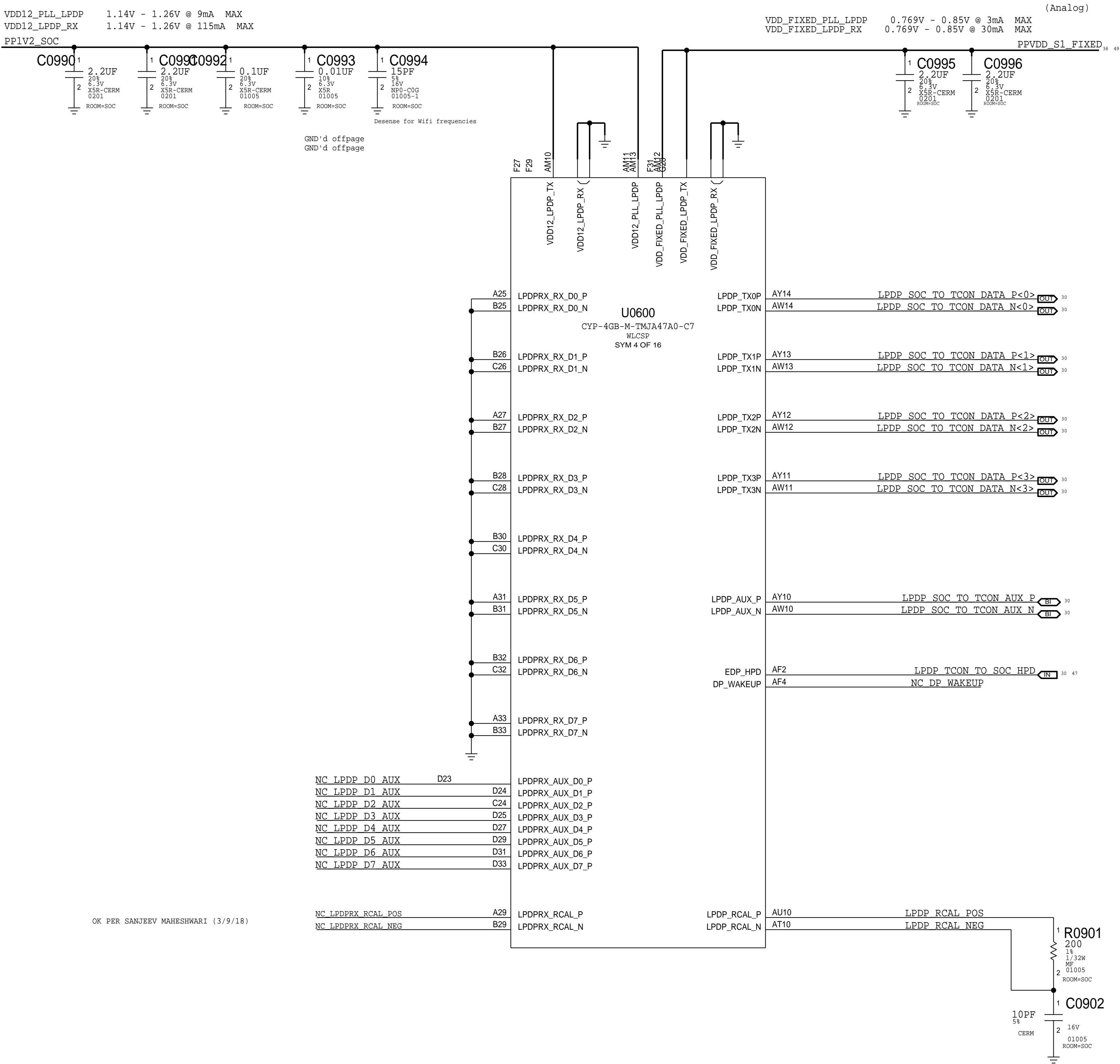
SOC – MIPI



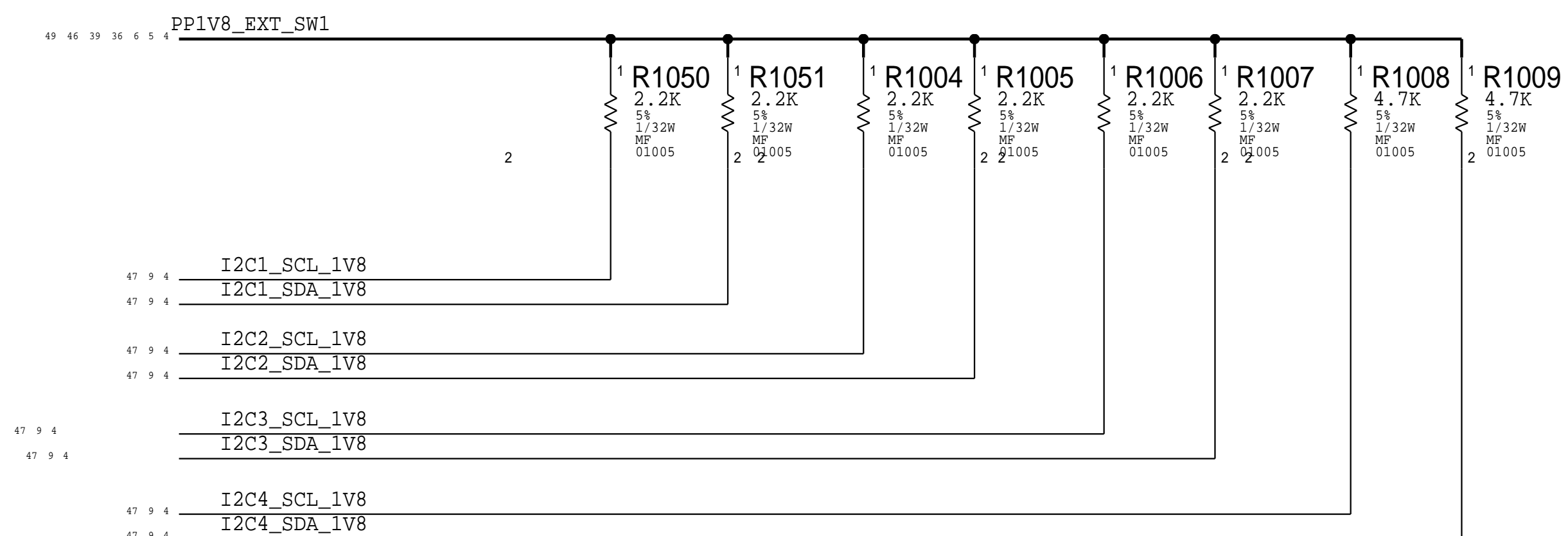
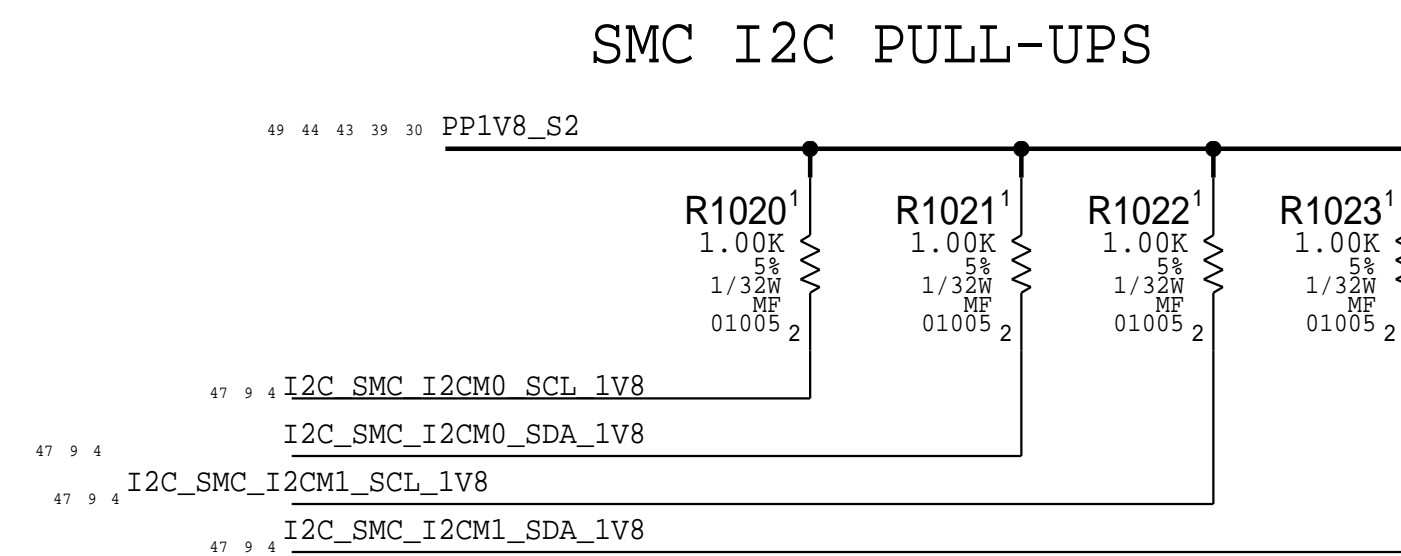
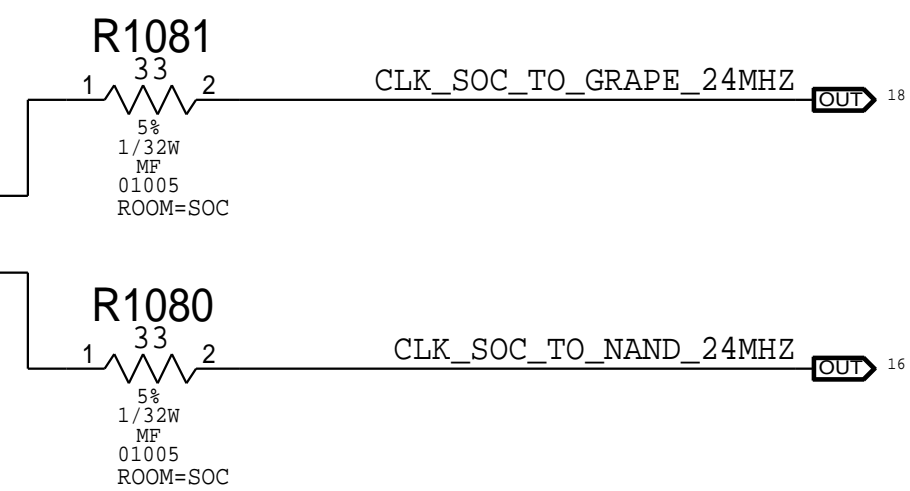
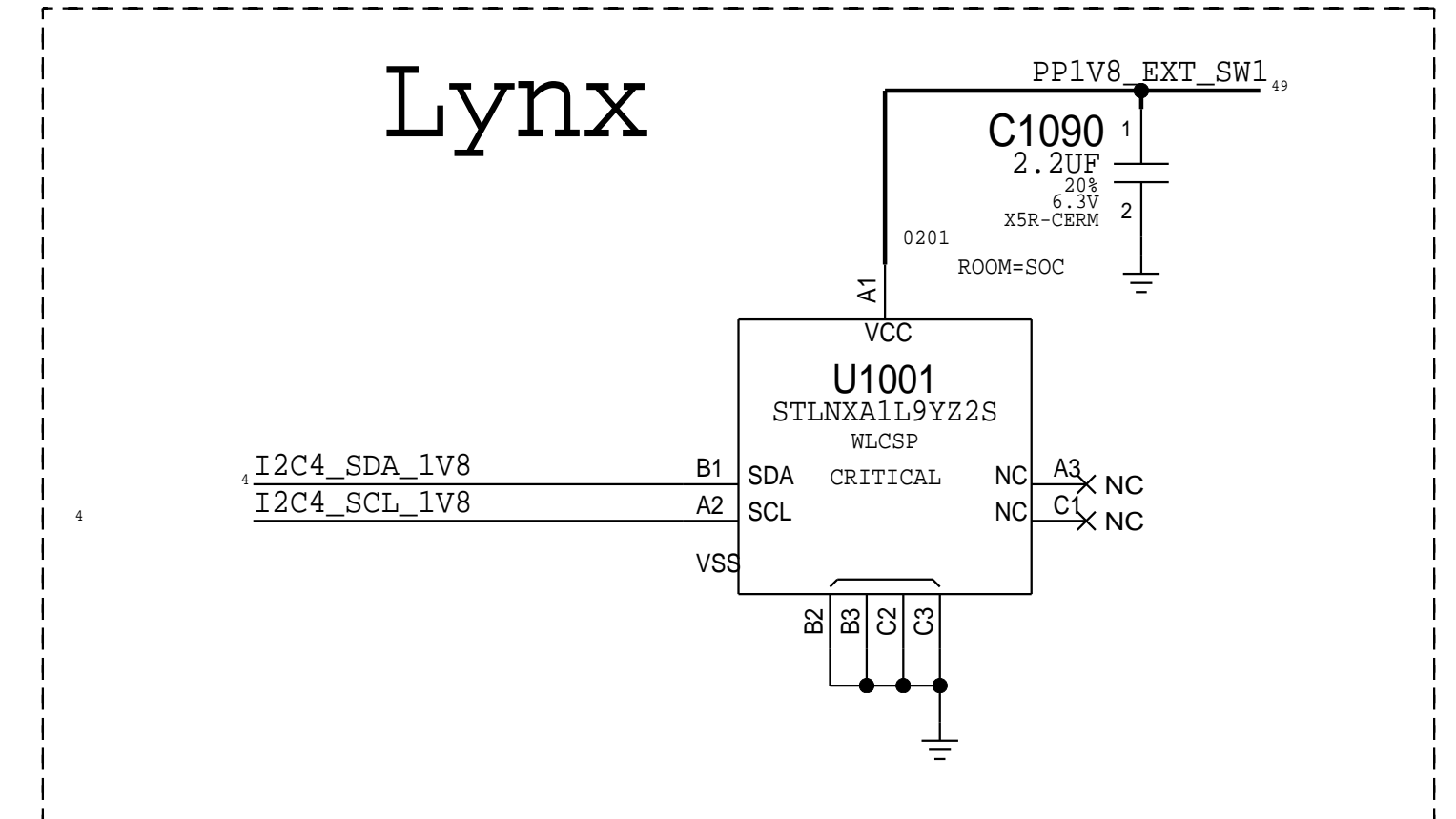
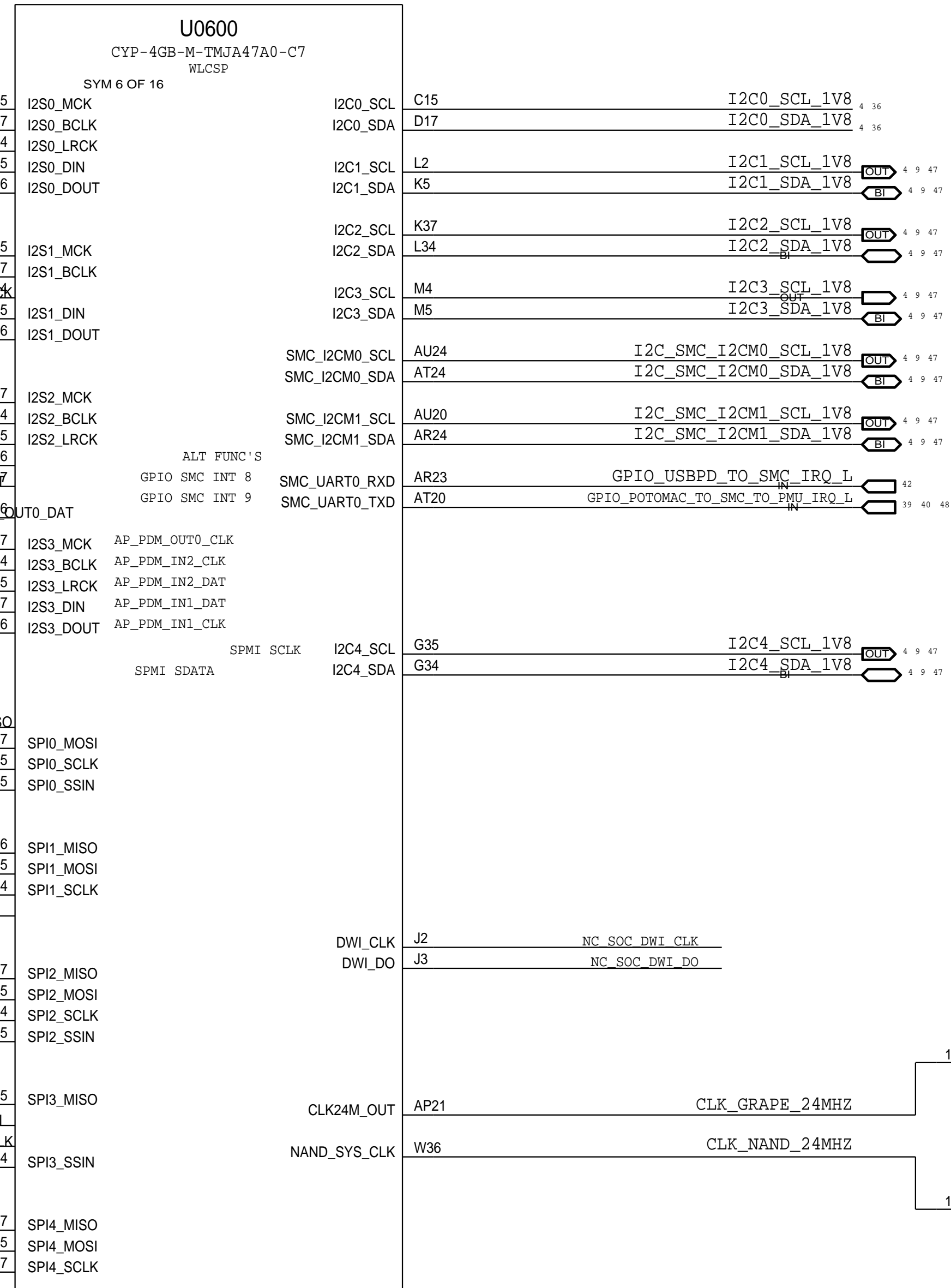
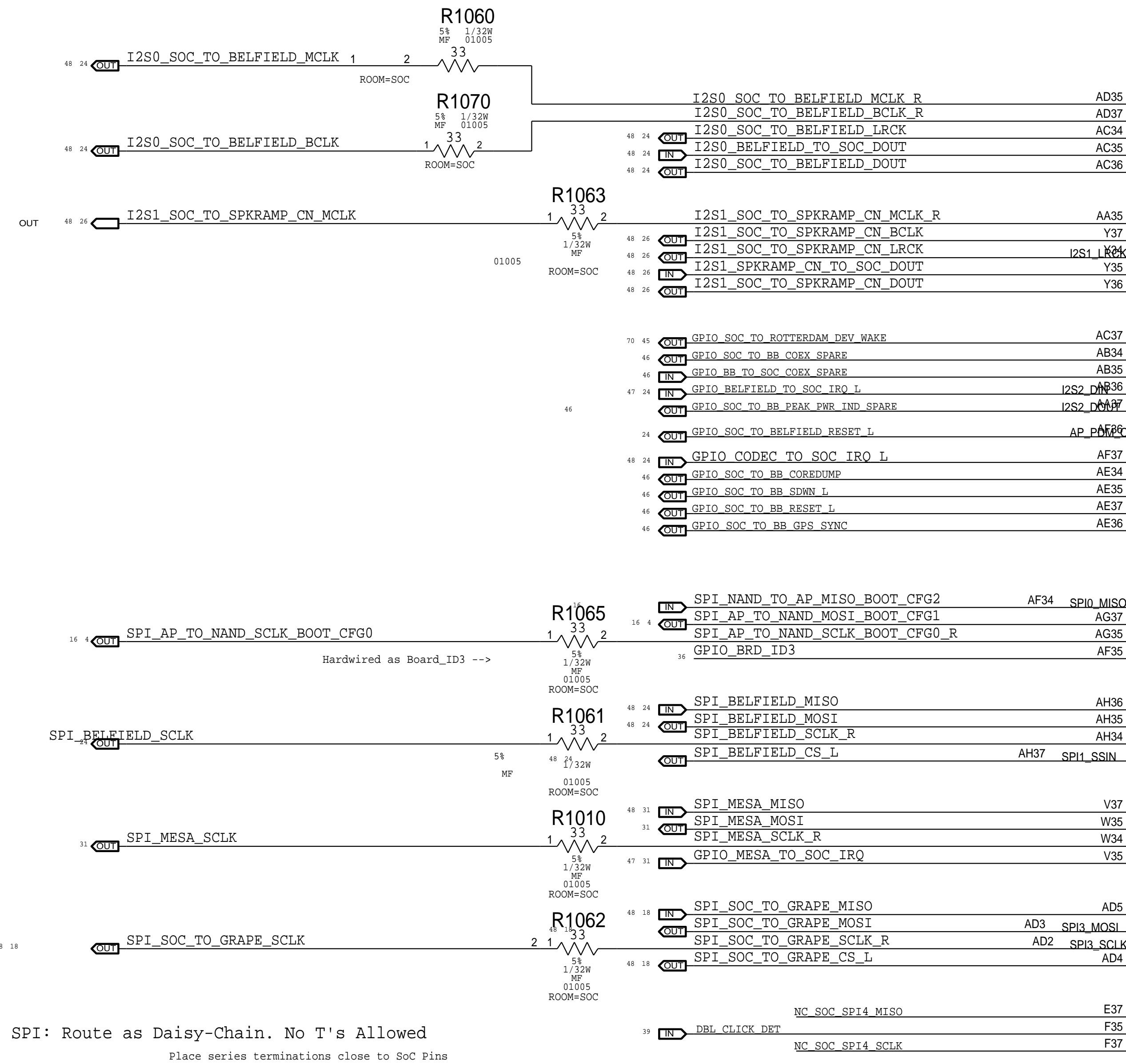
MIPI Reference



SOC - LPDP



SOC - SERIAL INTERFACES



D



B

B

A

A

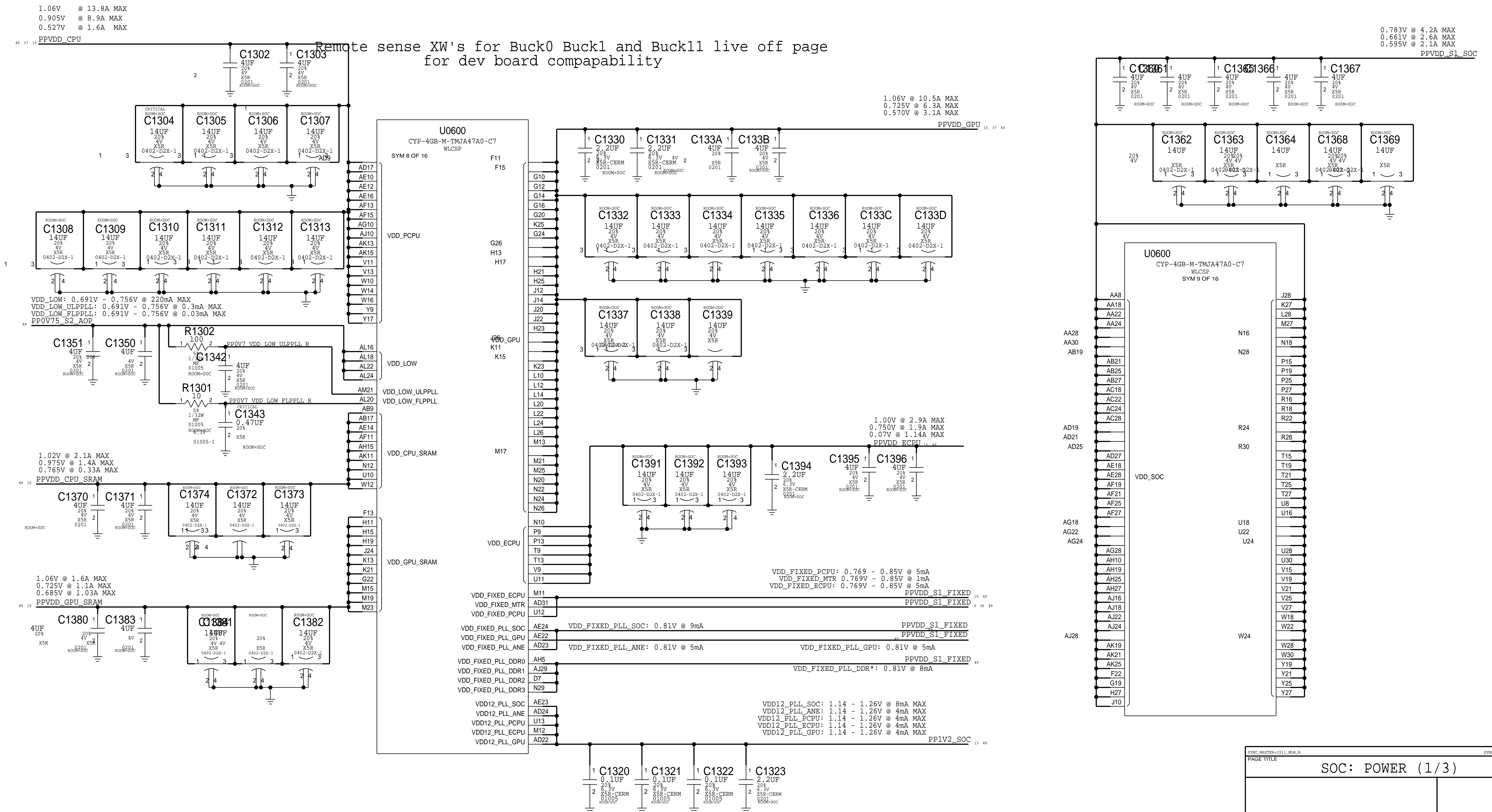
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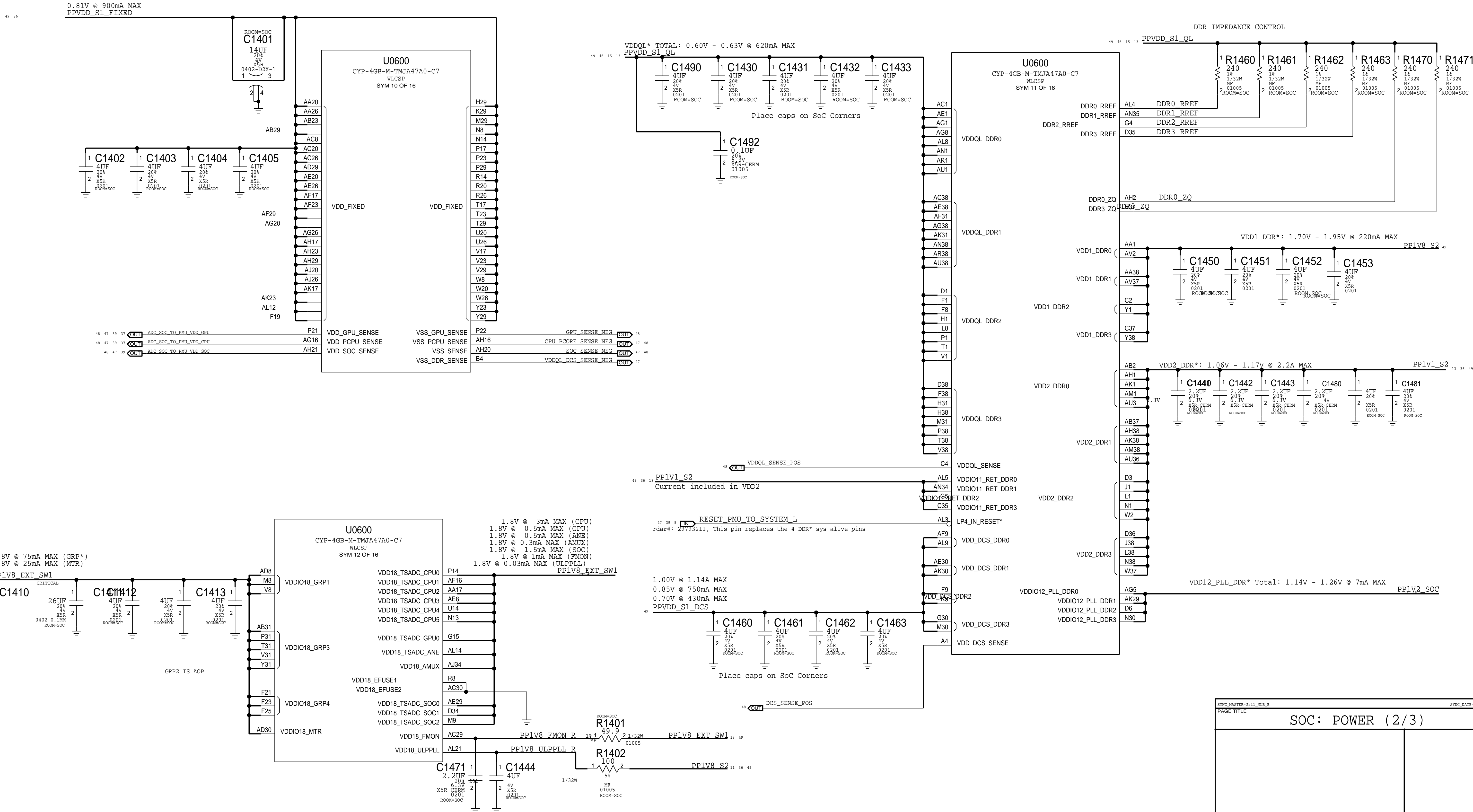
A

Δ

SOC - CPU, GPU & SOC RAILS



SOC - CPU, GPU & SOC RAILS



SOC - POWER SUPPLIES

D

B

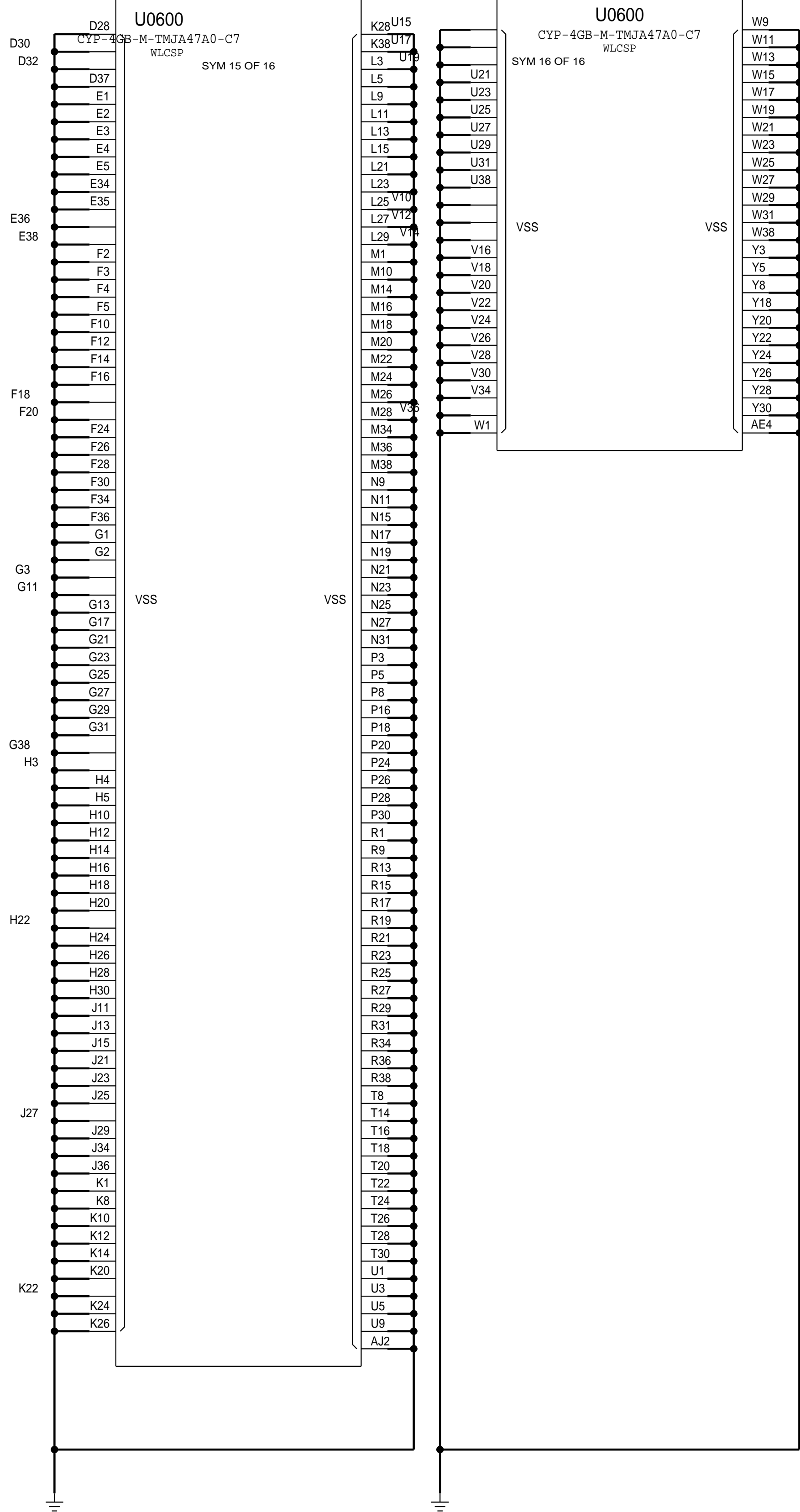
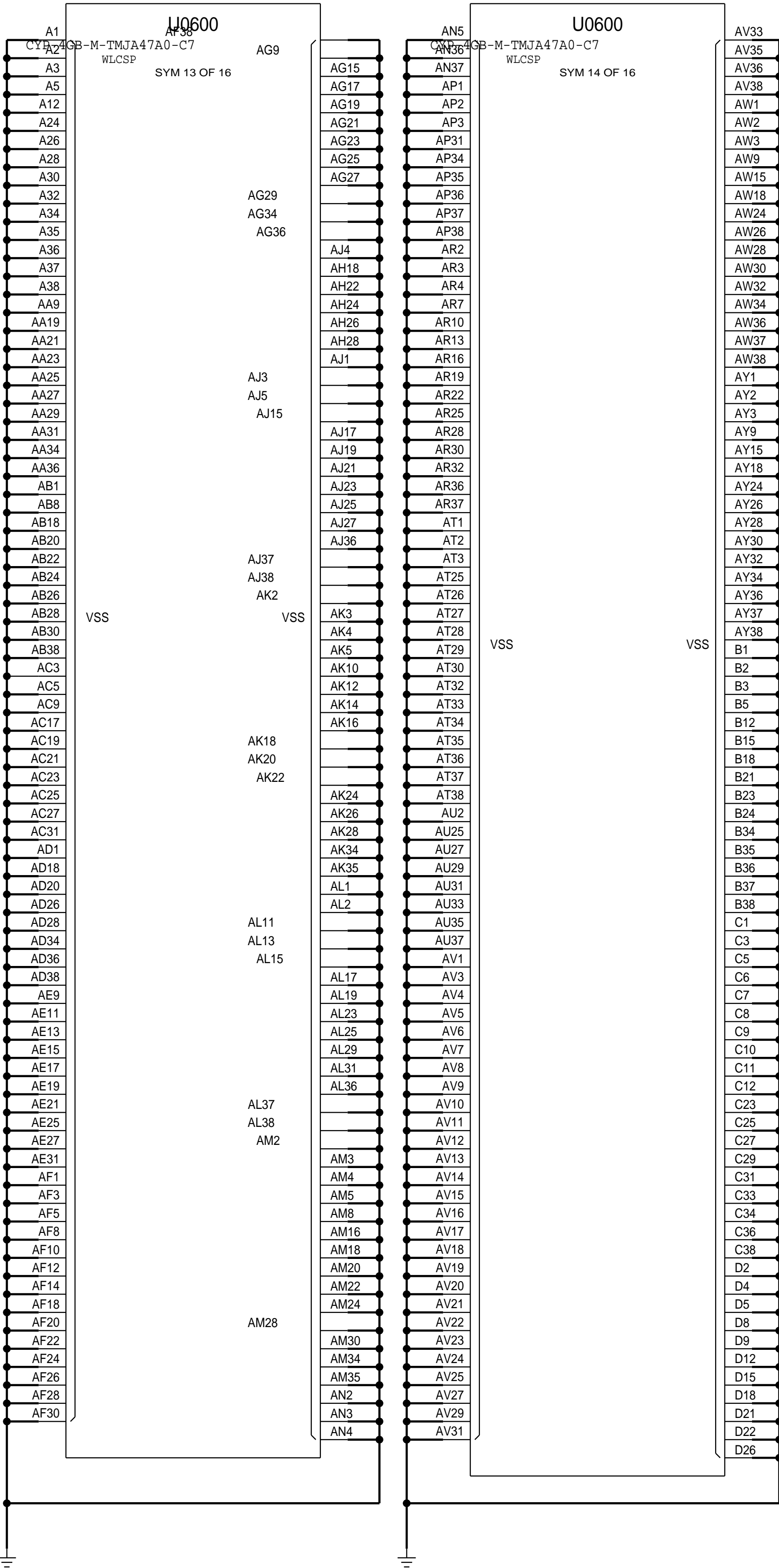
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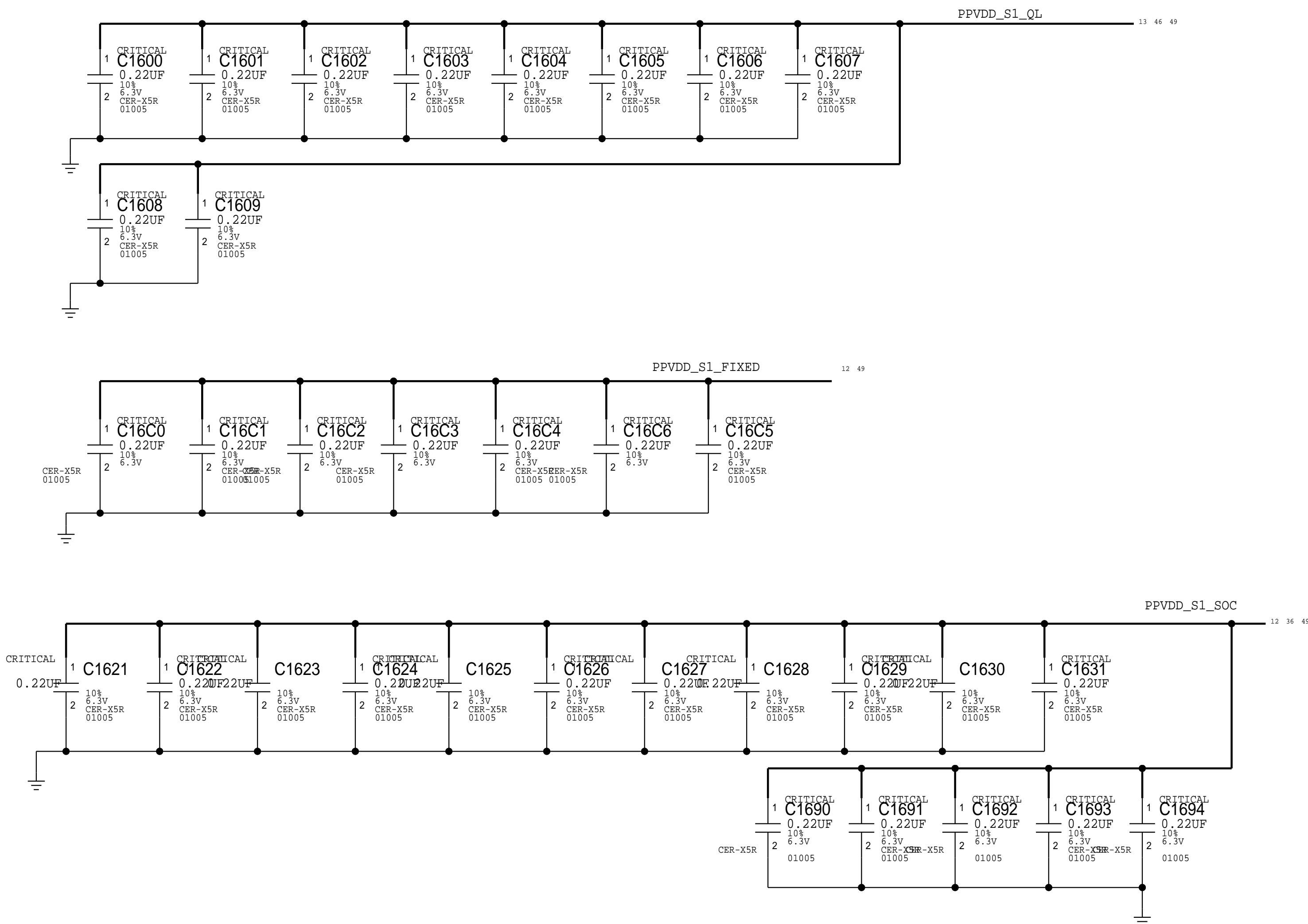
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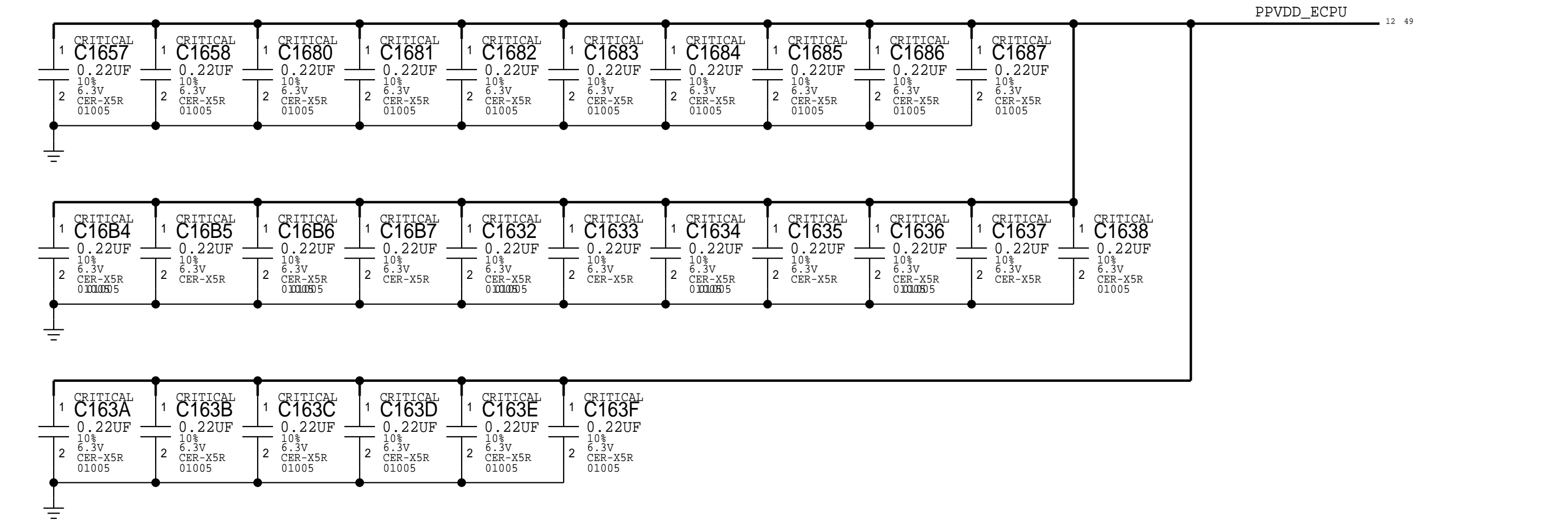
BOTTOM SIDE SOC CAPS

0.1UF = 132S00238 (0201, 0.11MM)

D

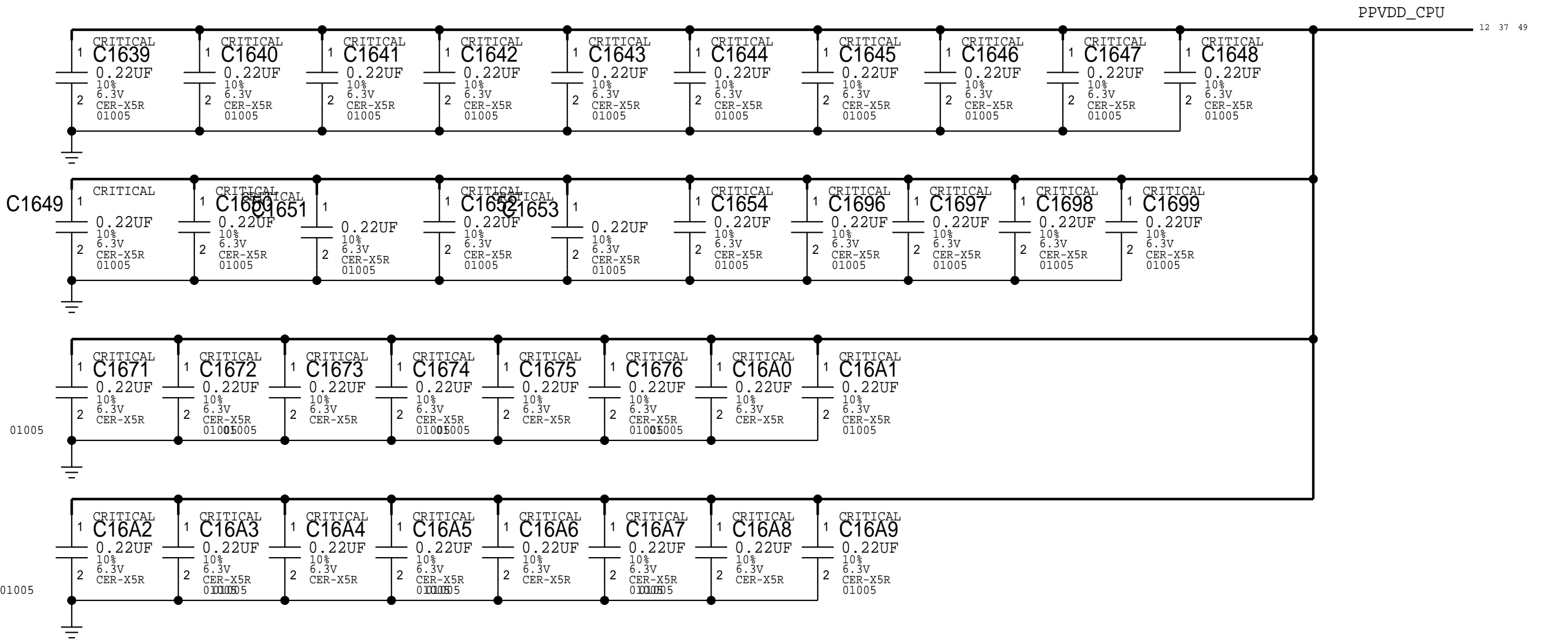


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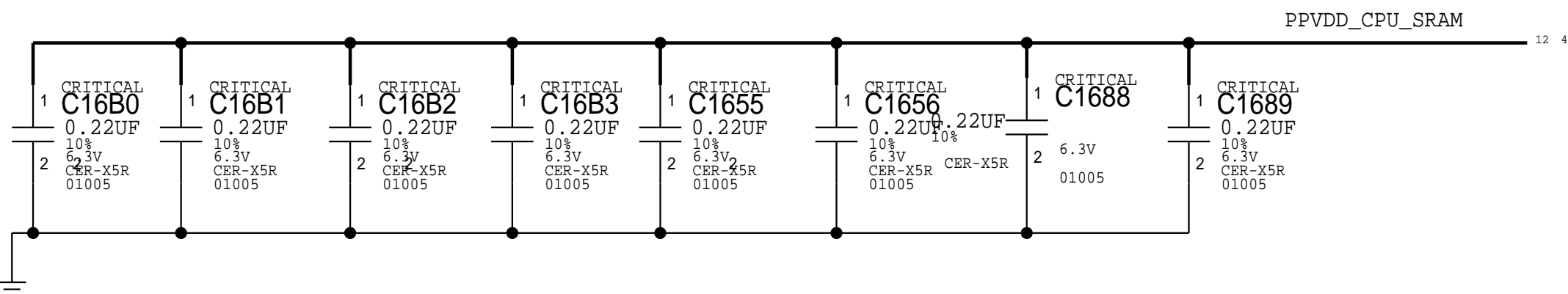


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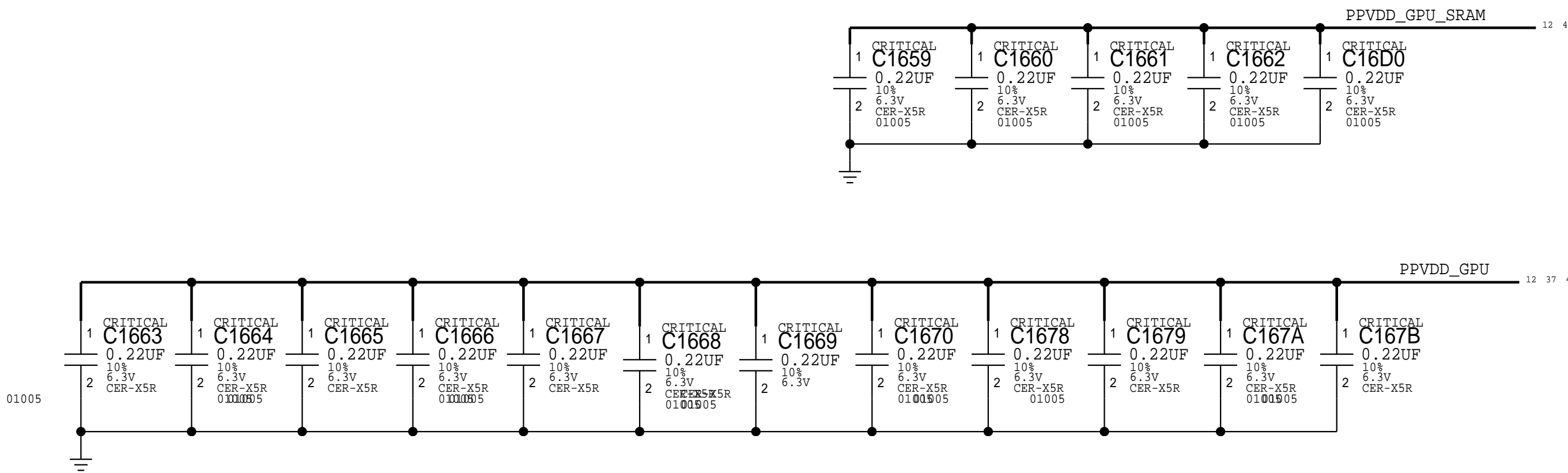
D



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SYRC_PARTNER+7211_MCU_B_5_4_0

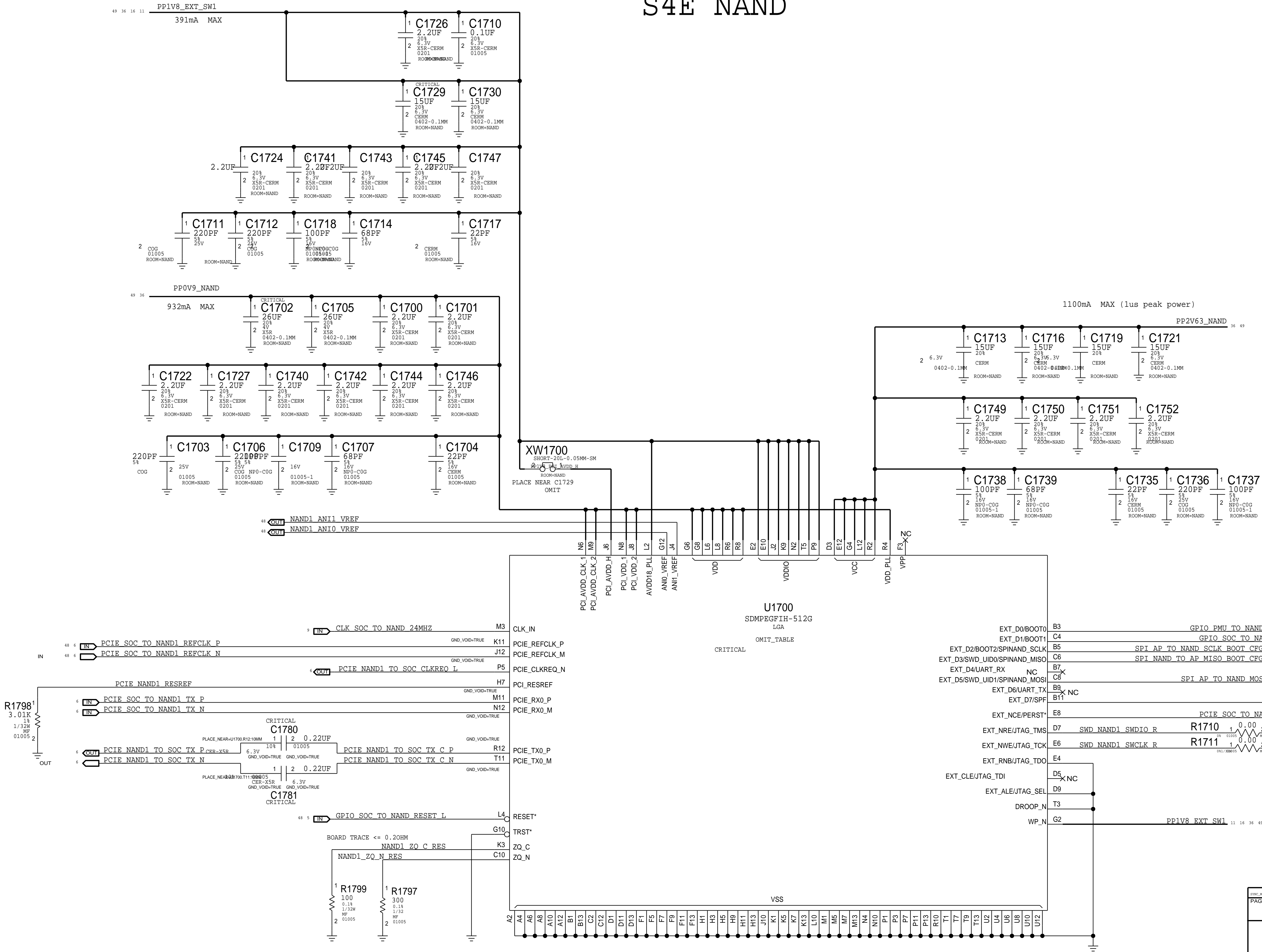
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PAGE TITLE

SOC: BOTTOM SIDE DECAPS

1

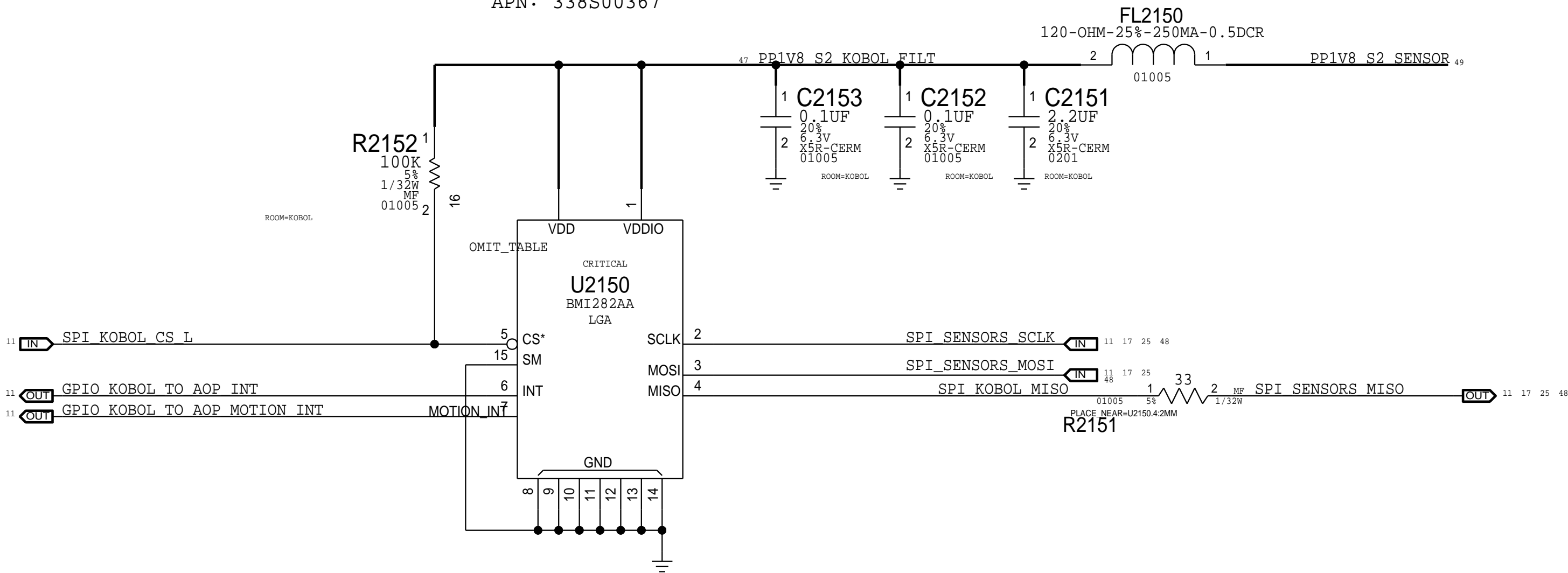
S4E NAND



SENSORS

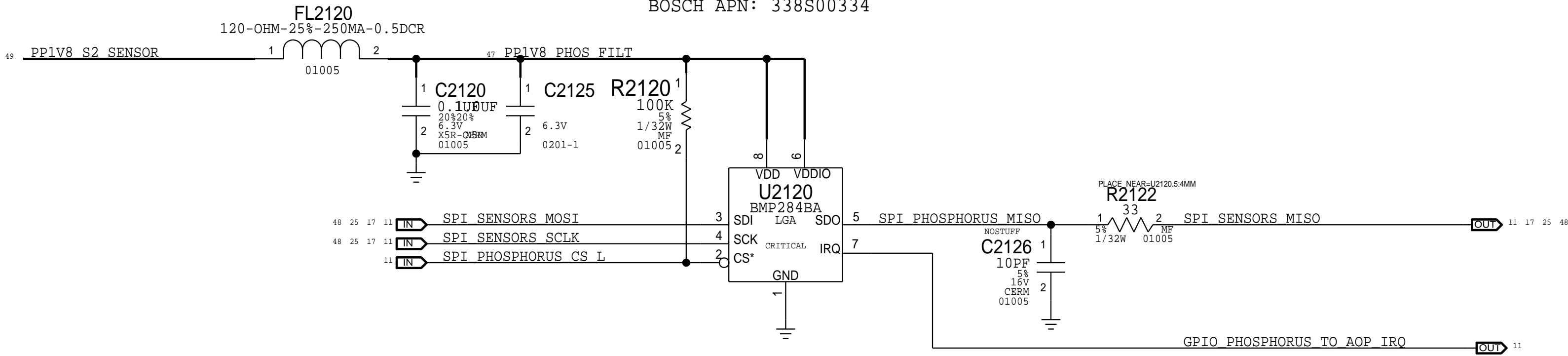
KOBOL - ACCEL & GYRO

APN: 338S00367



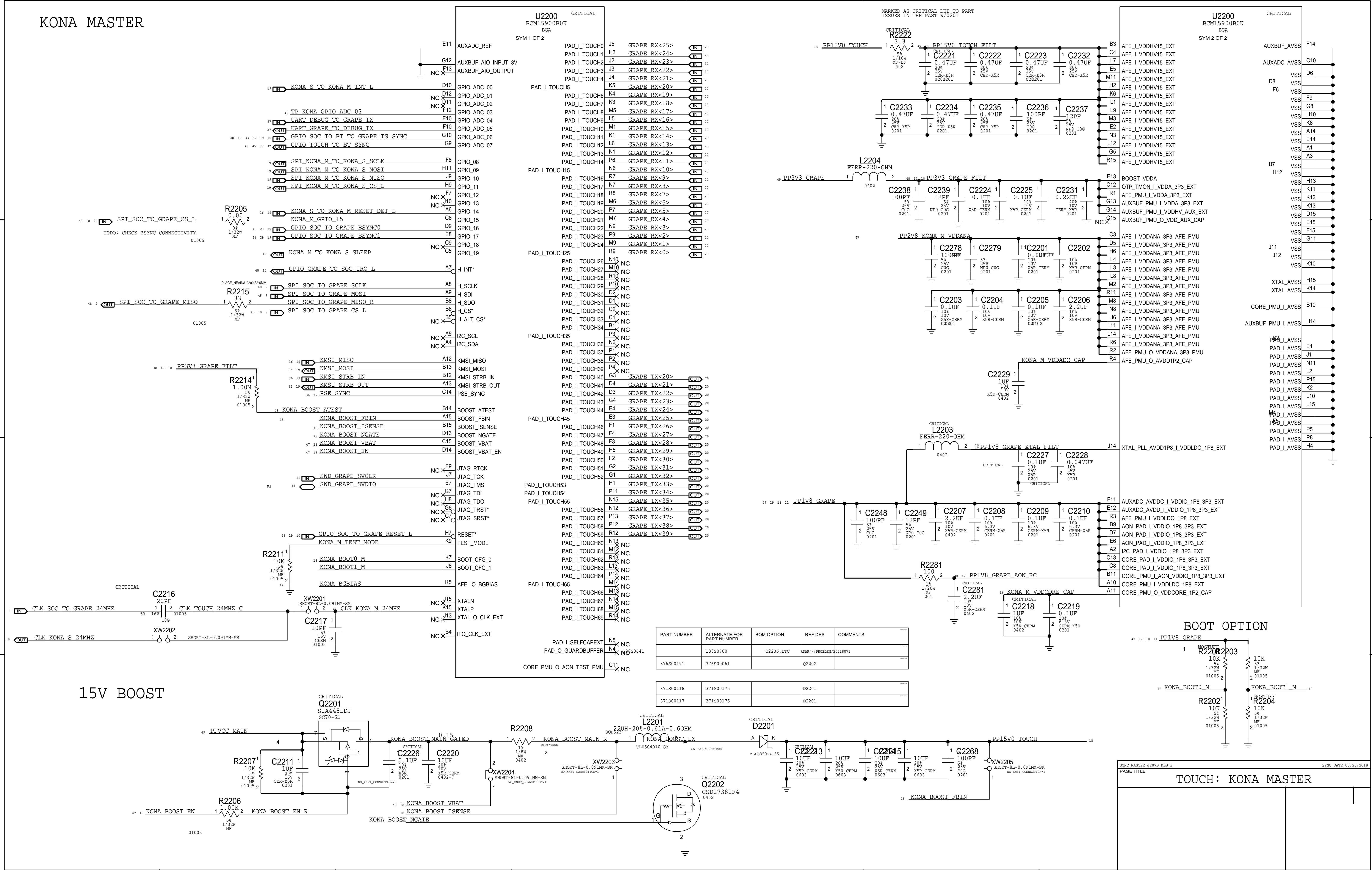
PHOSPHORUS2

BOSCH APN: 338S00334

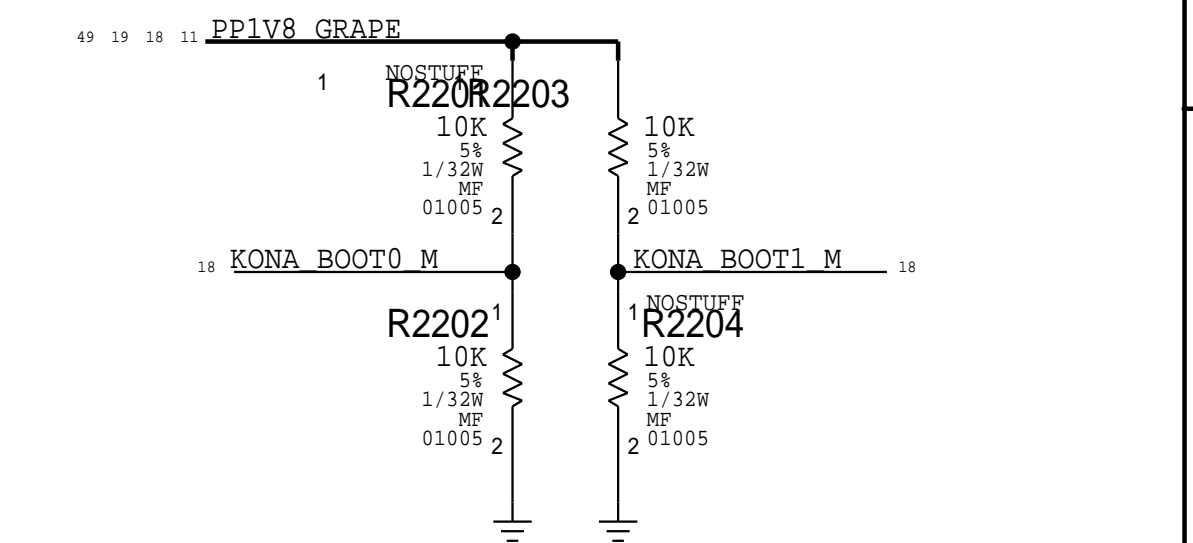


PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S00016	155S0686		FL2120 ,ECT	BOARD : // PROBLEM /15809407

KONA MASTER



BOOT OPTION



TOUCH: KONA MASTER

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
	138S0700	C2206, ETC	EDAR:///PROBLEM	35618071
376S00191	376S00061		Q2202	
371S00118	371S00175		D2201	
371S00117	371S00175		D2201	

KONA: SLAVE

D

B

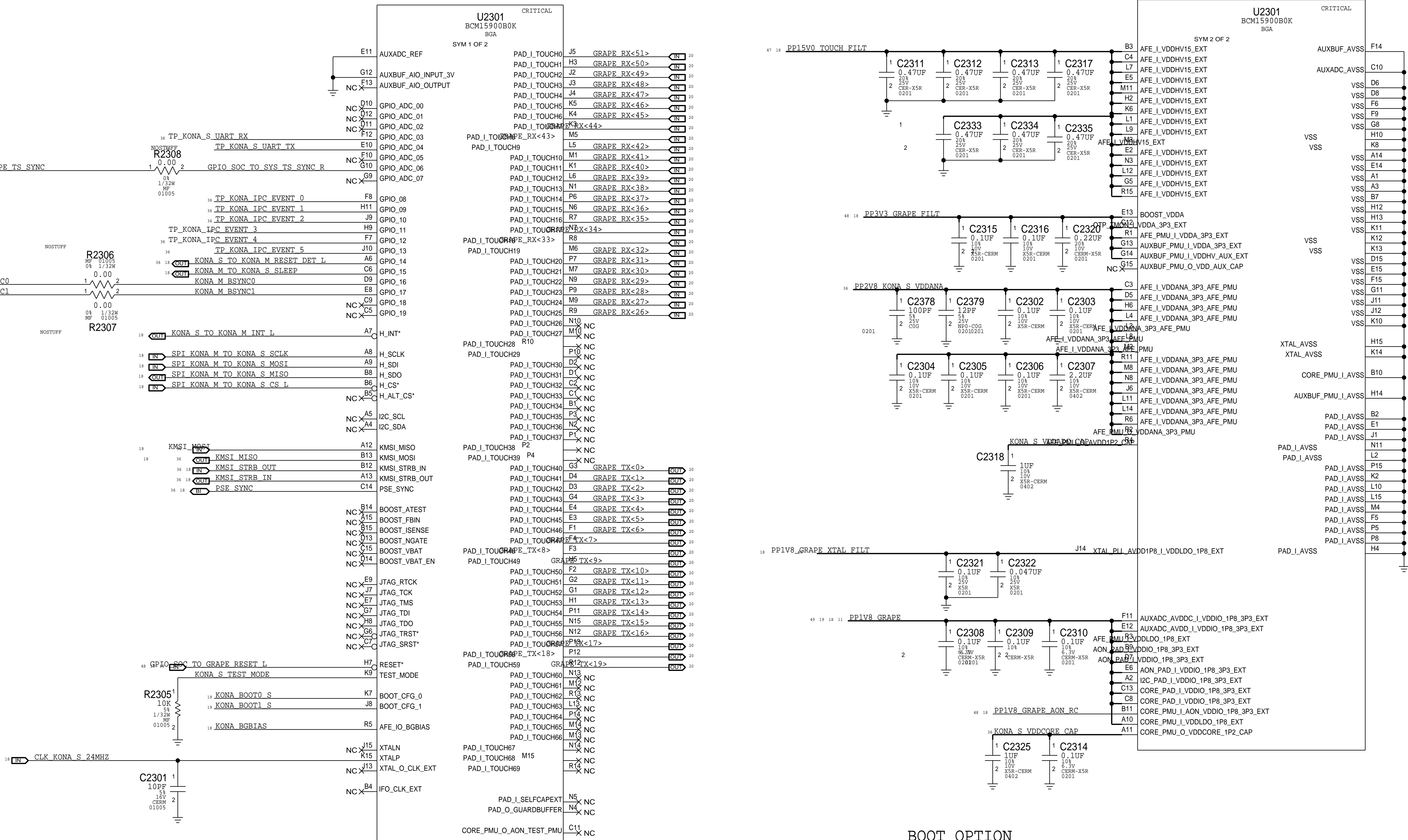
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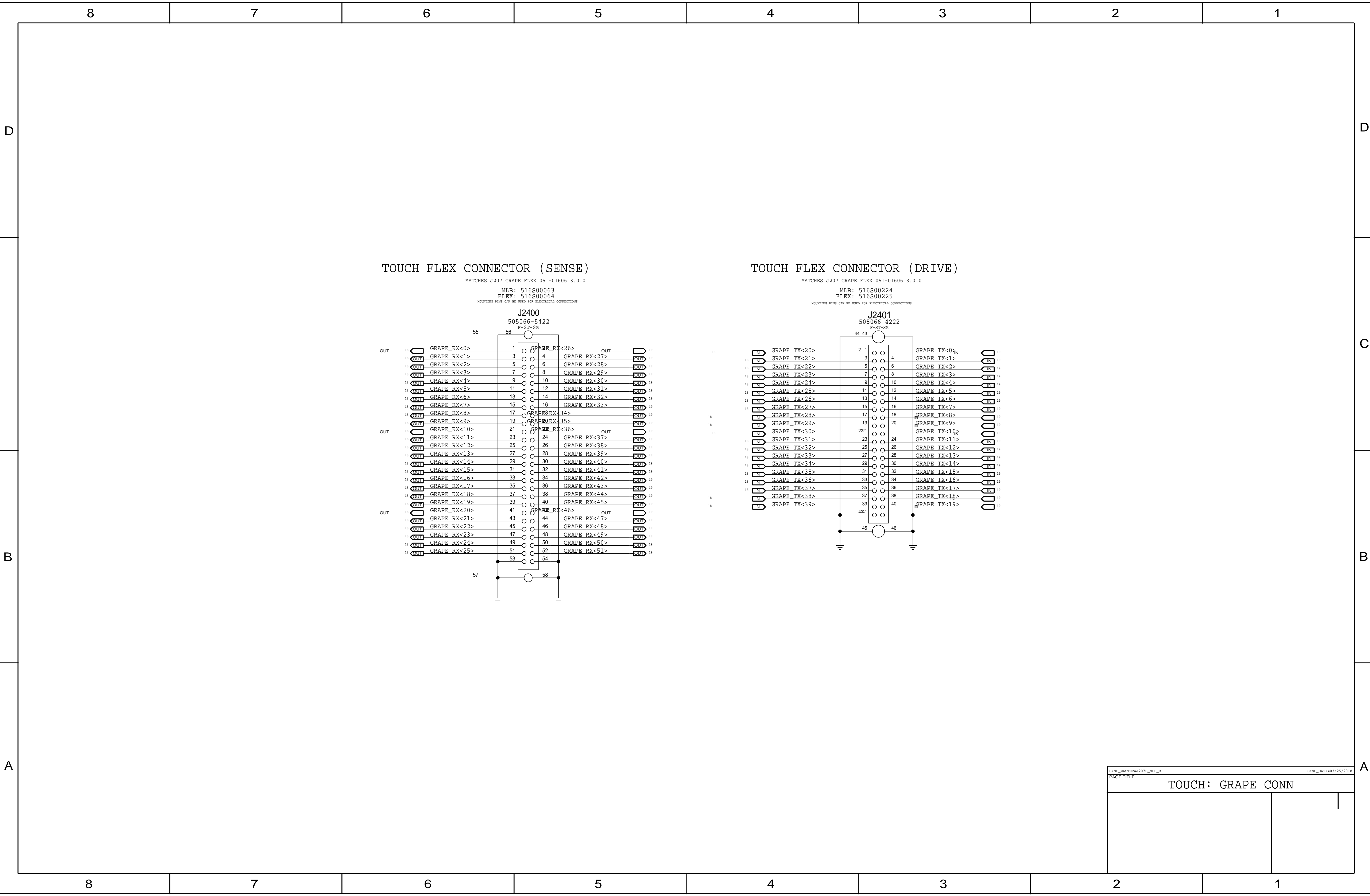
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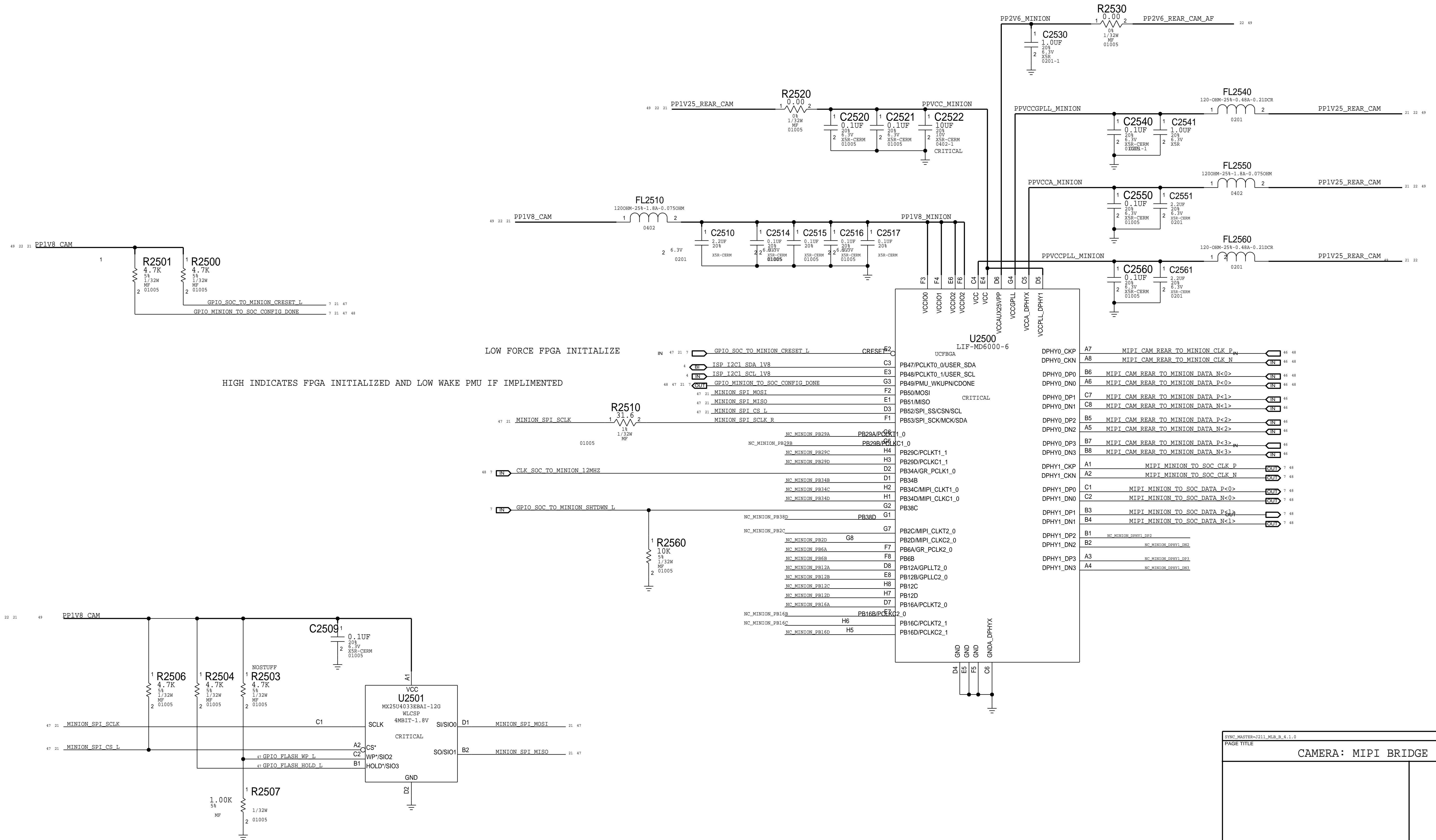
PAGE TITLE

TOUCH: KONA SLAVE



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)
```

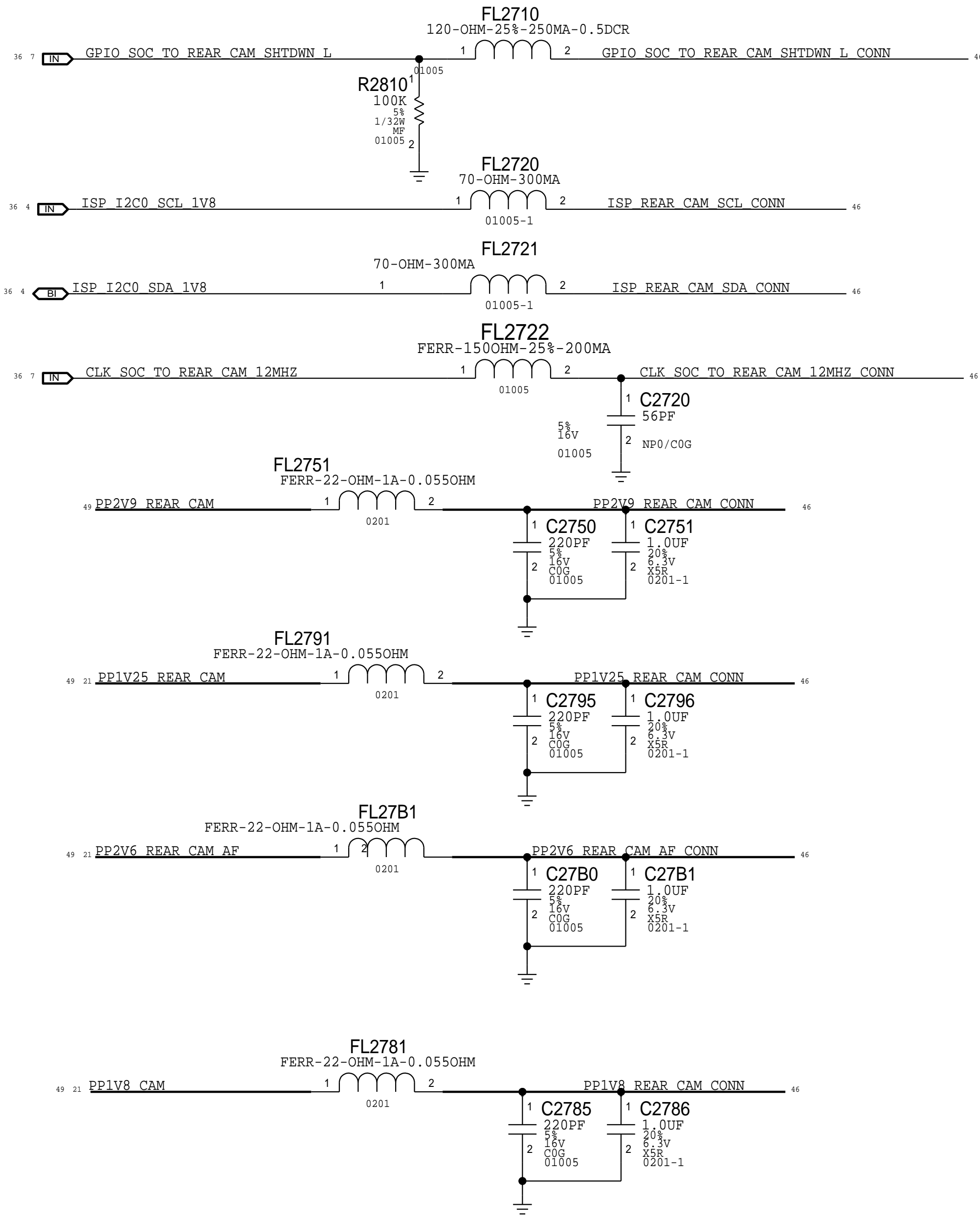


SYNC_MASTER=J211_MLB_B_4.1.0 SYNC_DATE=07/29/2018

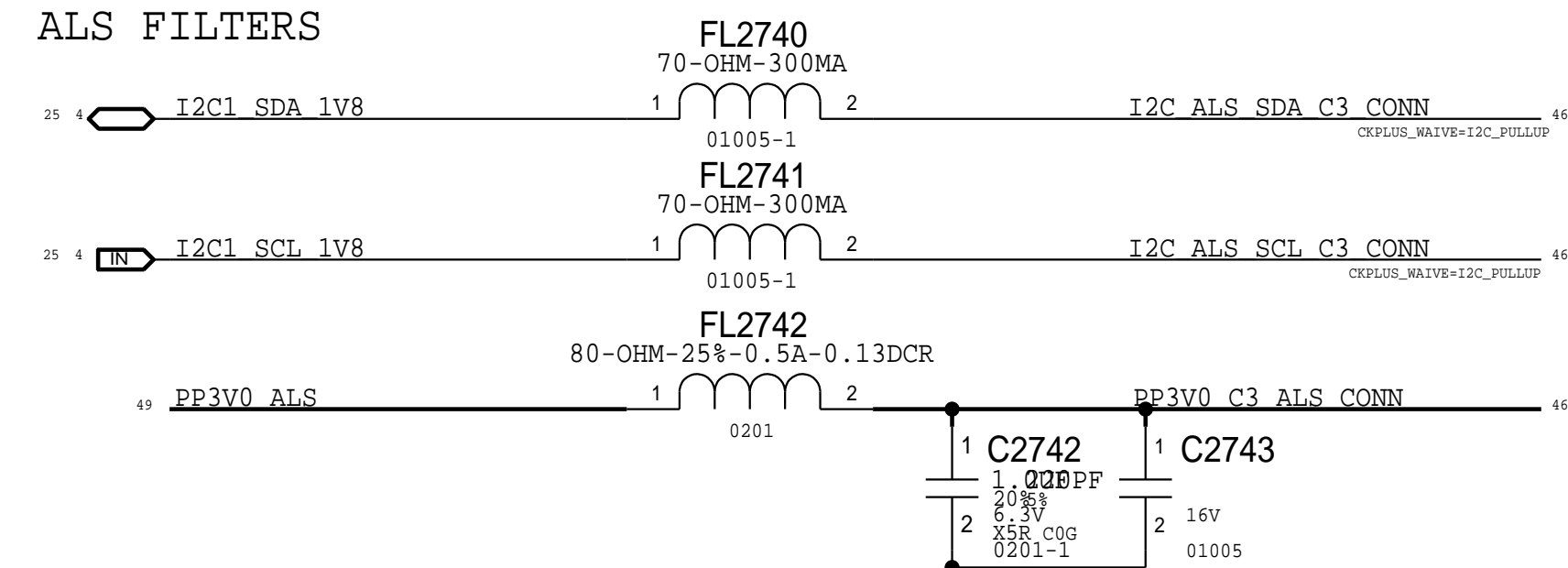
PAGE TITLE

CAMERA: MIPI BRIDGE

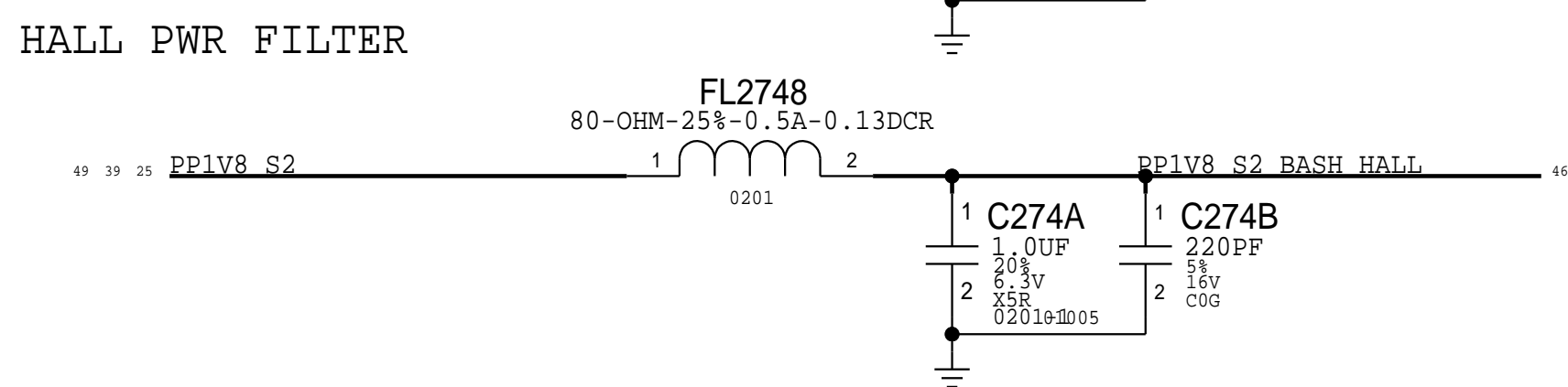
CORNER3 XFER FLEX B2B



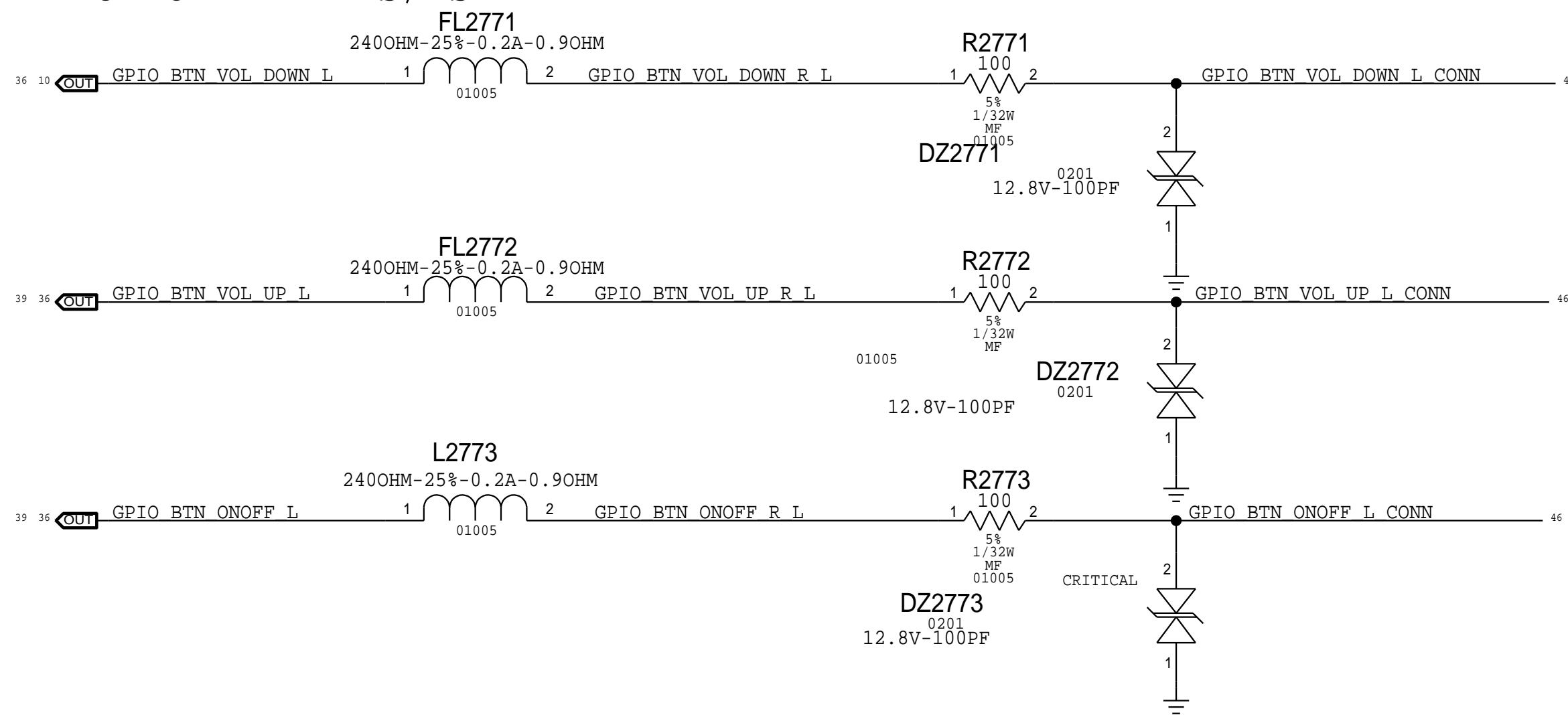
ALS FILTERS



HALL PWR FILTER



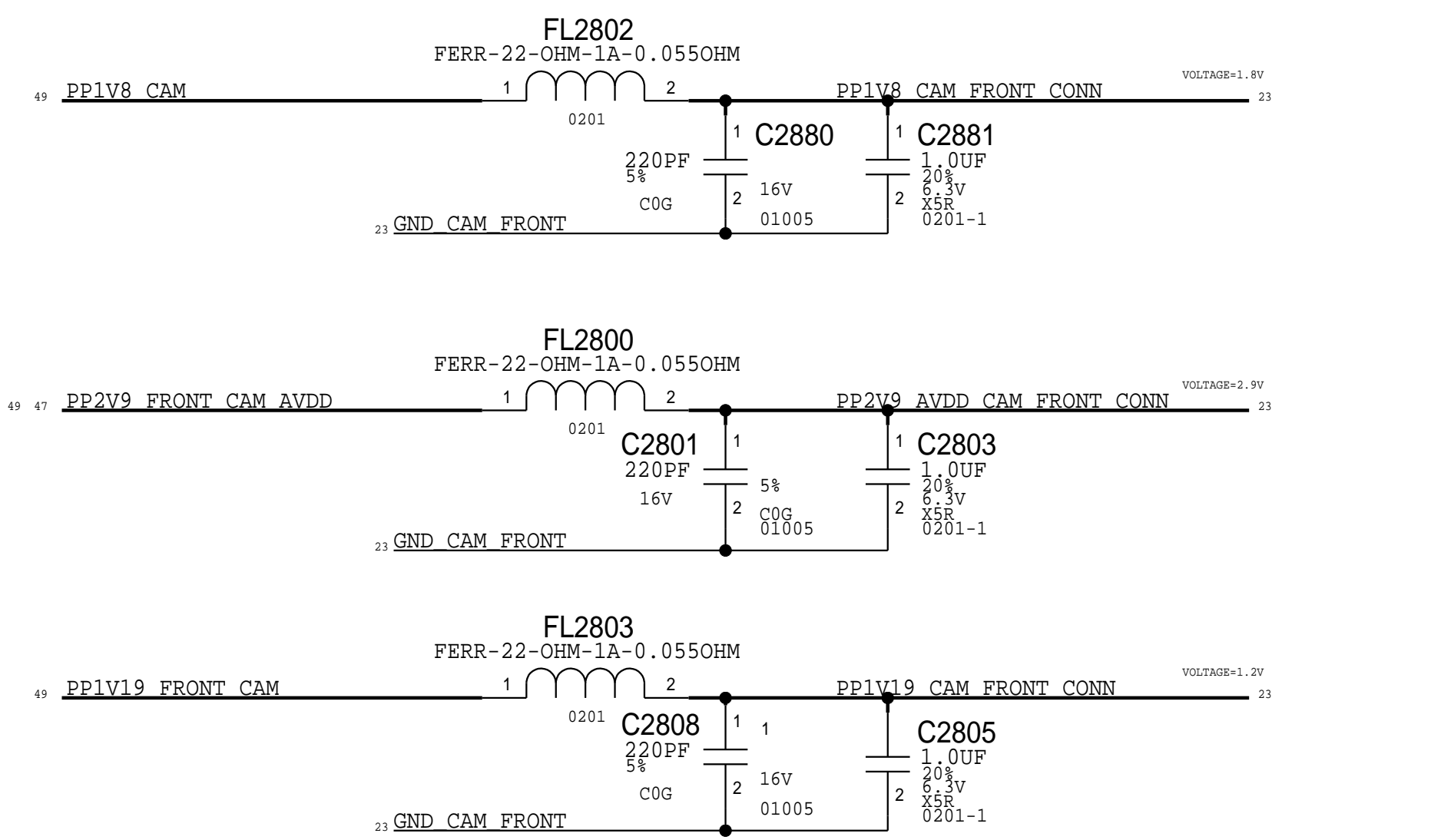
BUTTON FILTERS/ESD



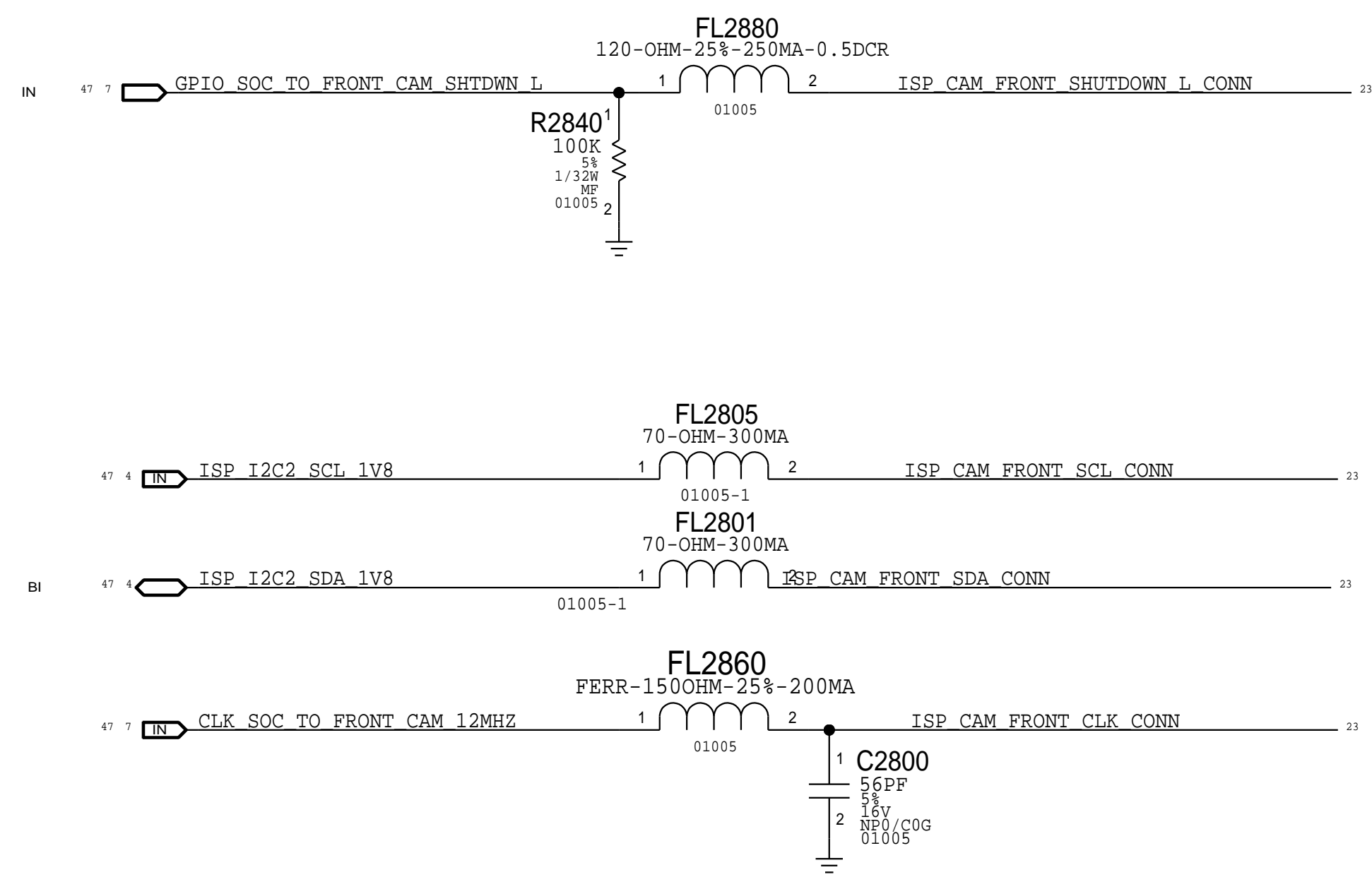
FLEX CONNS: CORNER 3	

FRONT CAMERA (NH)

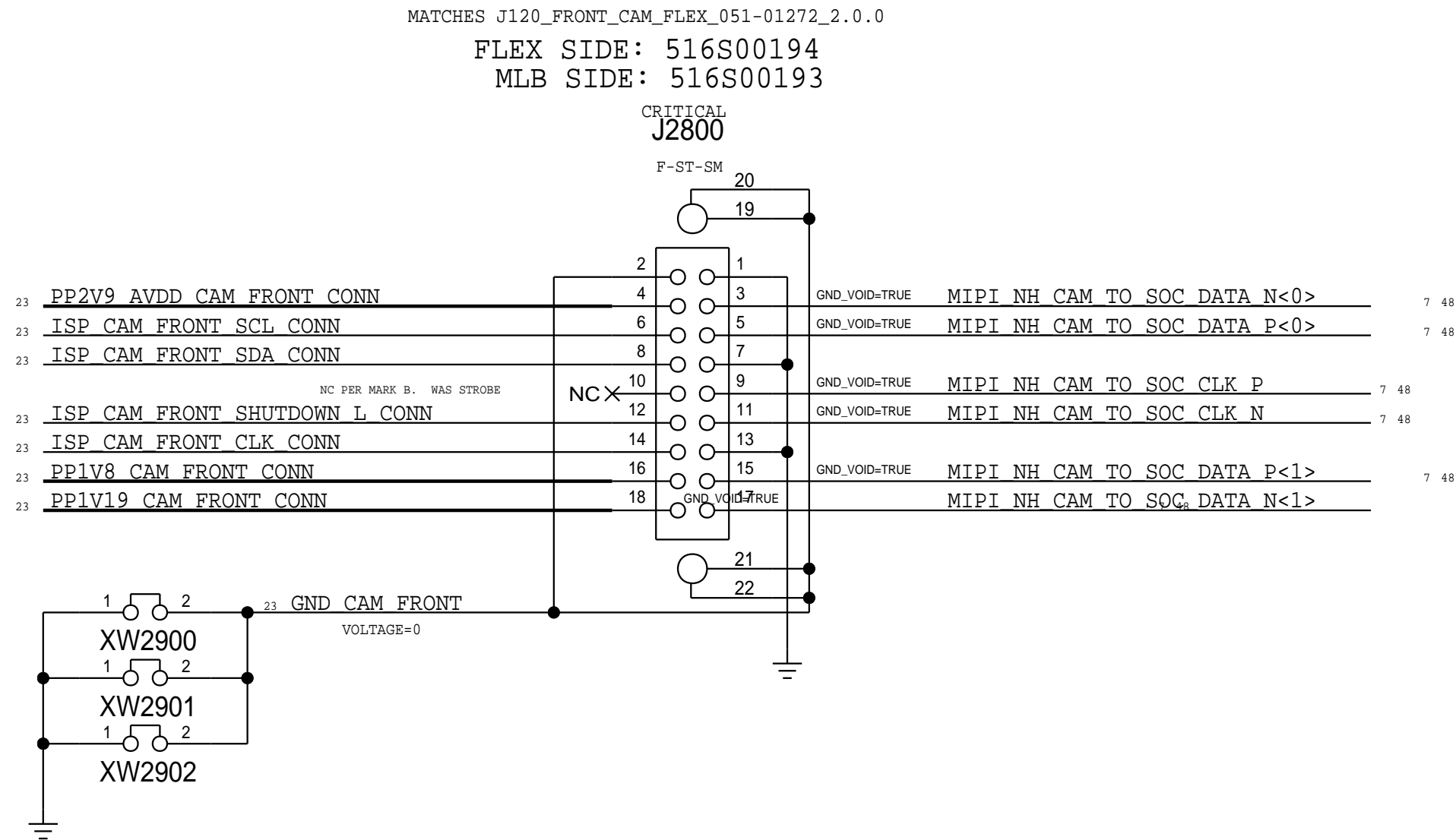
POWER FILTERS



IO FILTERS



FRONT CAMERA CONNECTOR

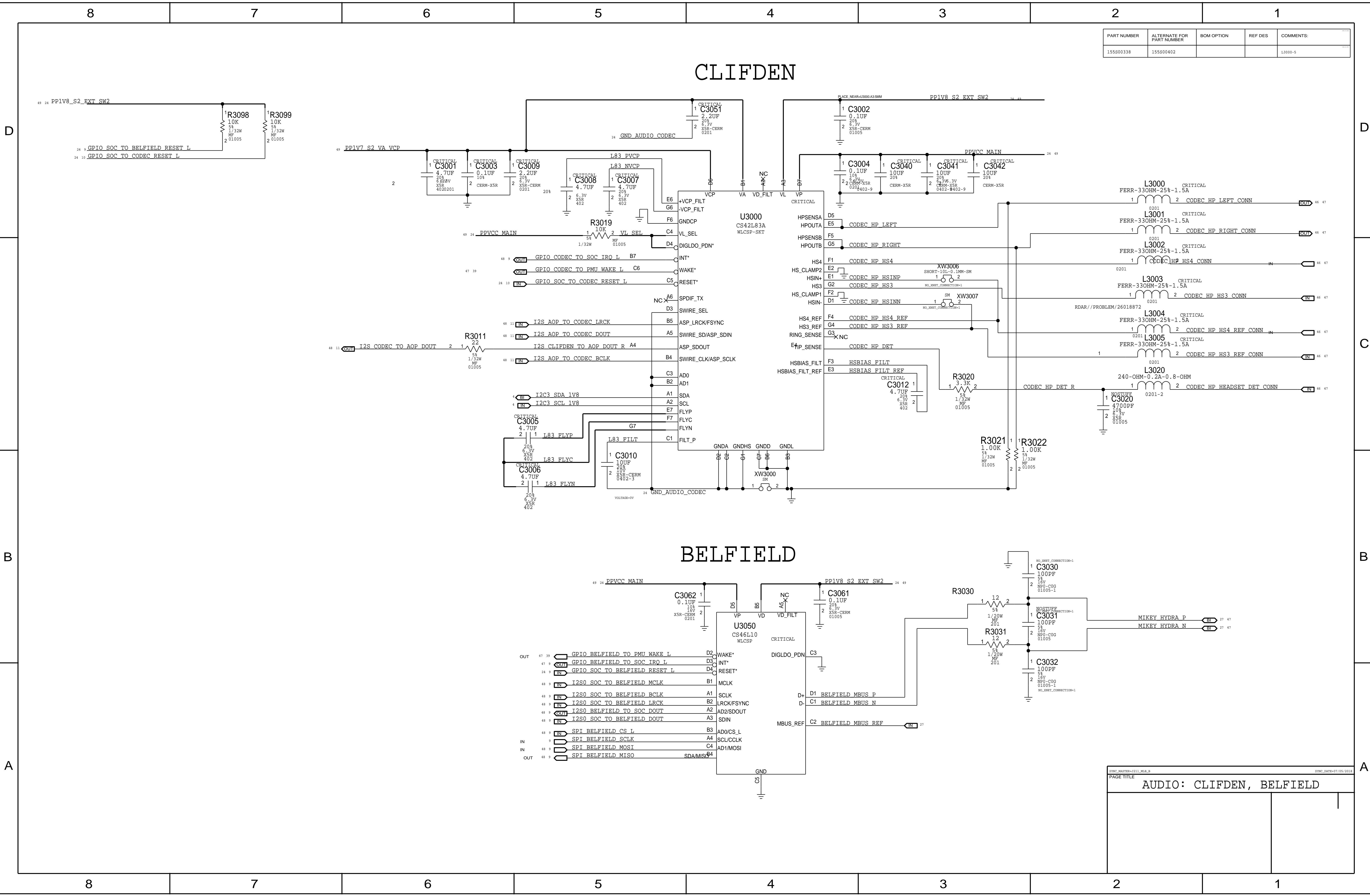


SYMC_MATTER-0211_M0A_0

PAGE TITLE

CAMERA: FRONT

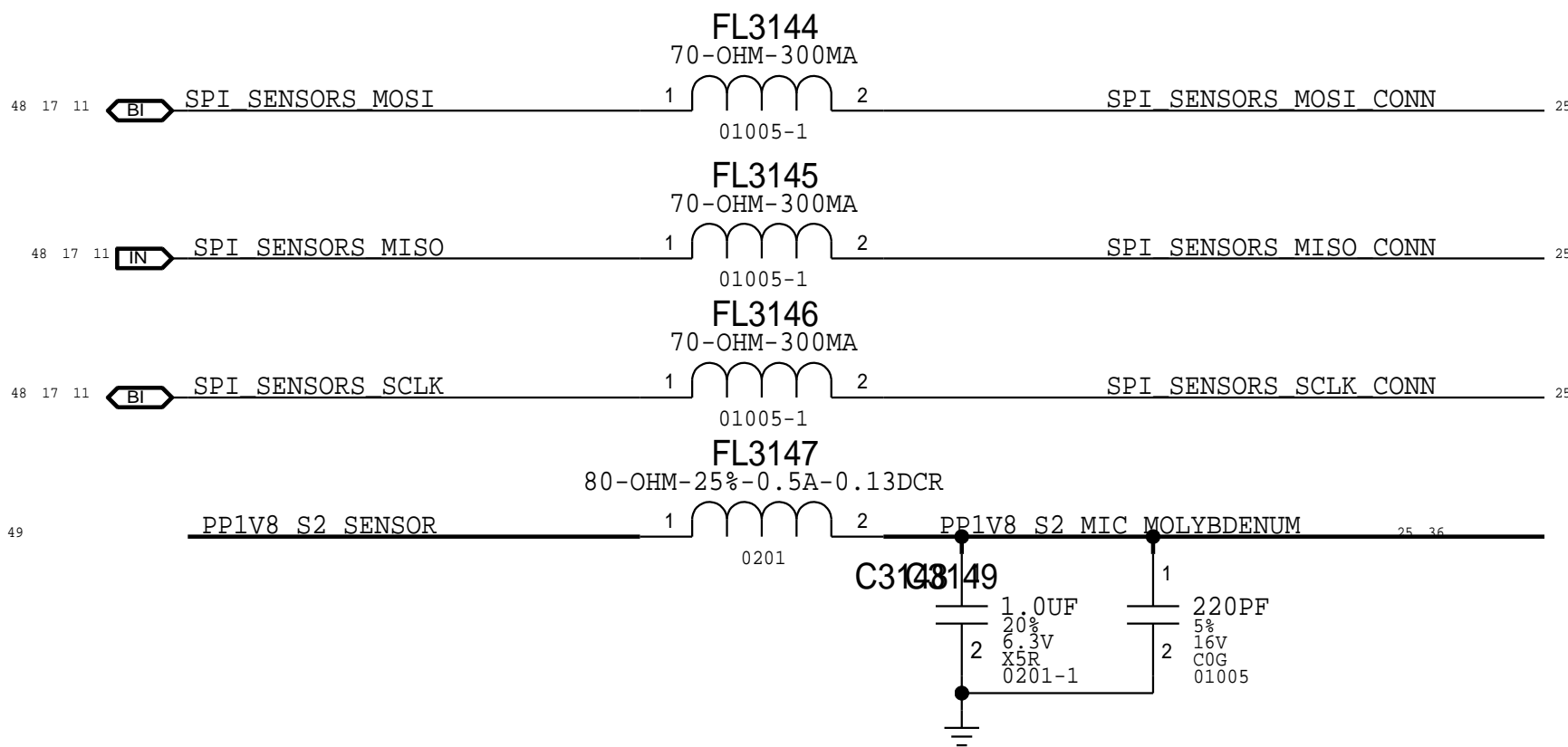
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
-------------	---------------------------	------------	---------	-----------



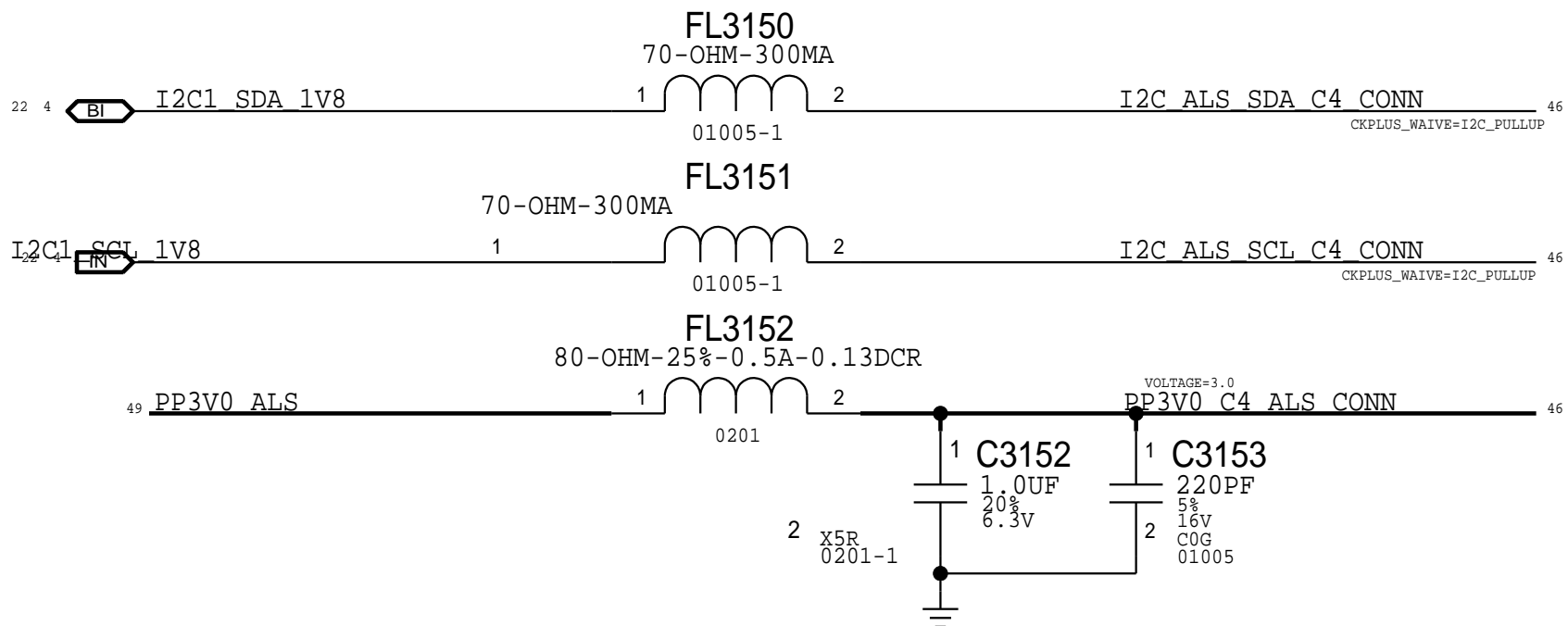
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155800338	155800402			L3000-5

CORNER 4 + DMIC FLEX FILTERS

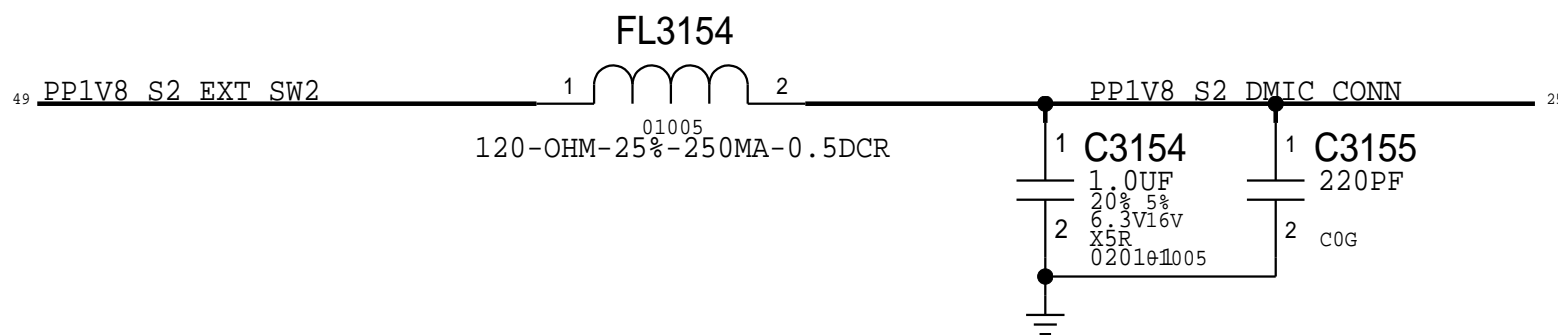
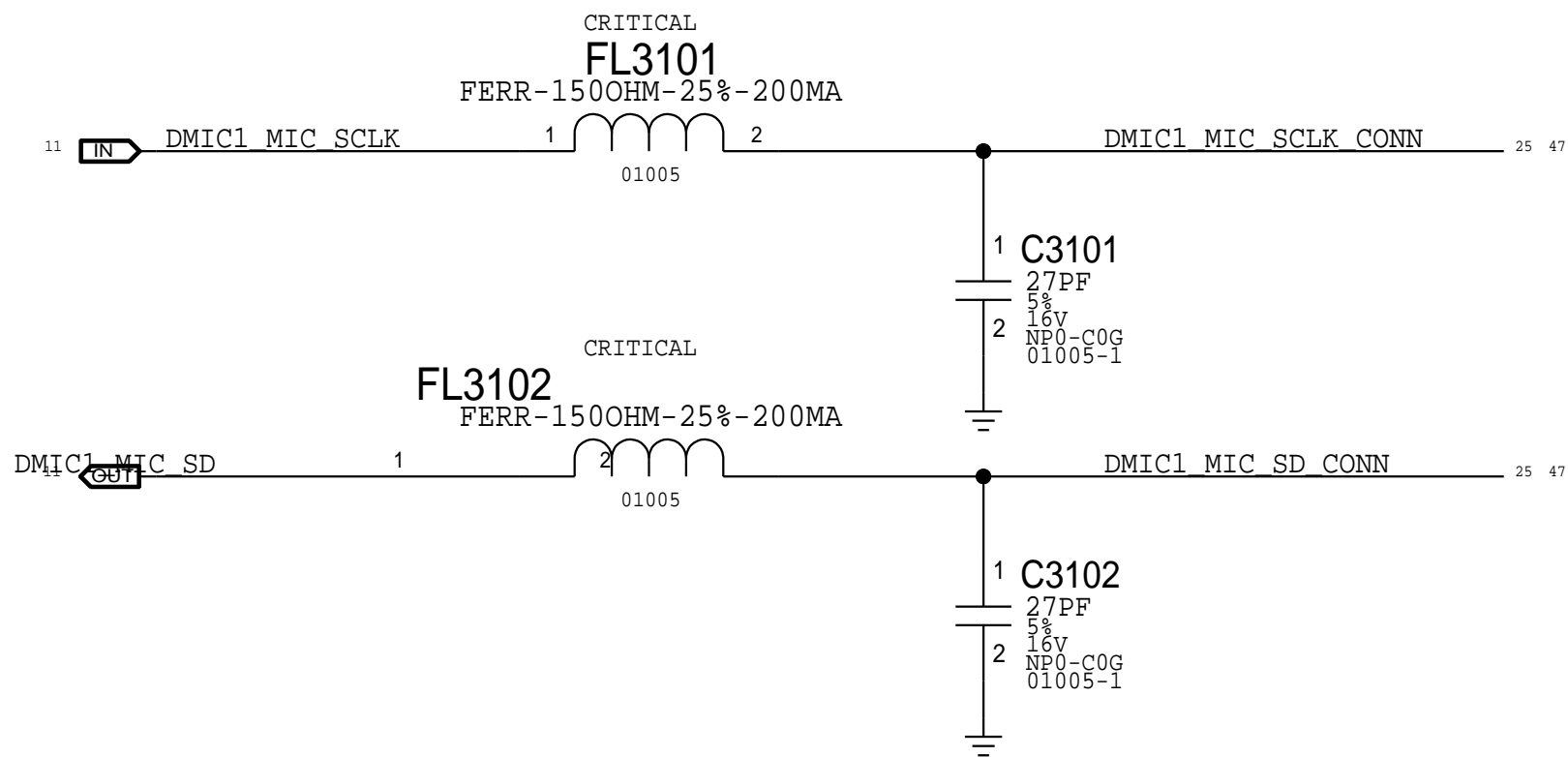
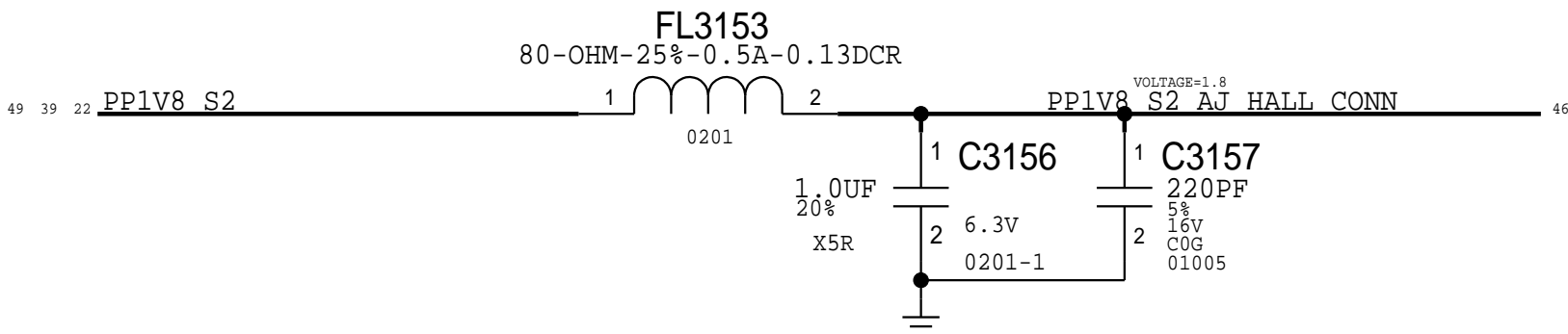
MOLYBDENUM SPI FILTERS



ALS FILTERS

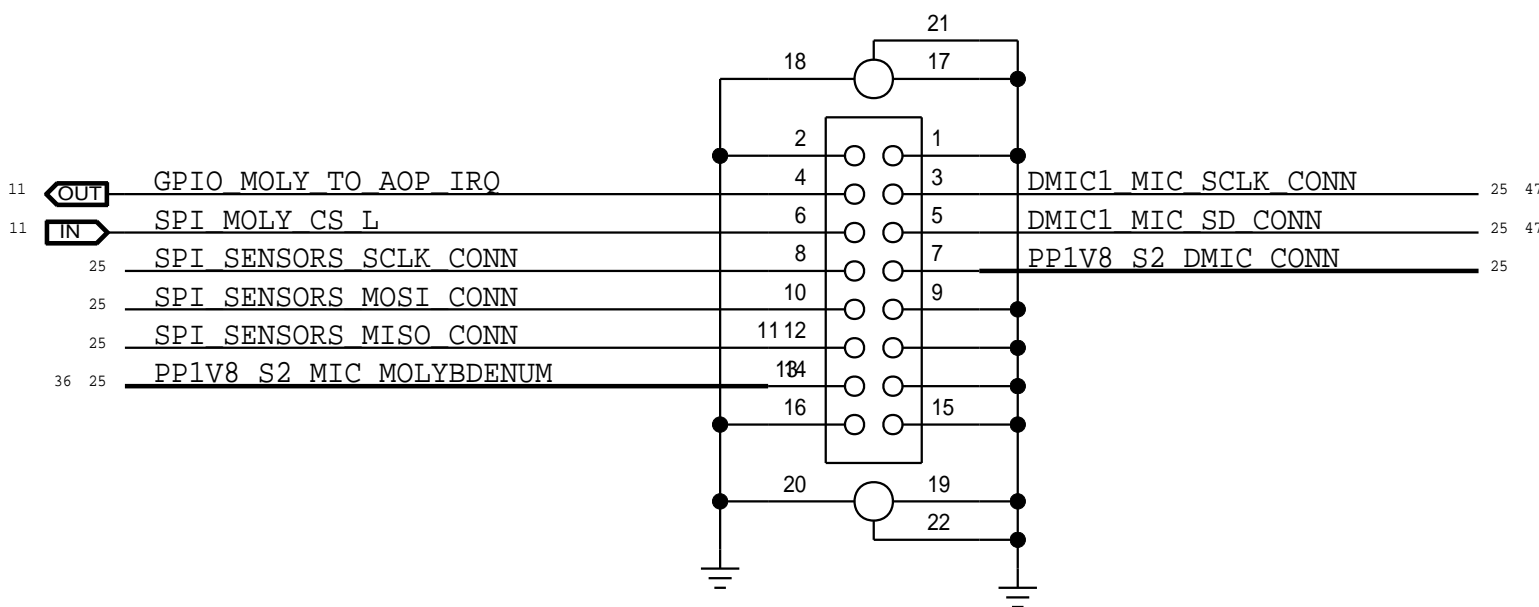


HALL FILTER



MIC FLEX B2B

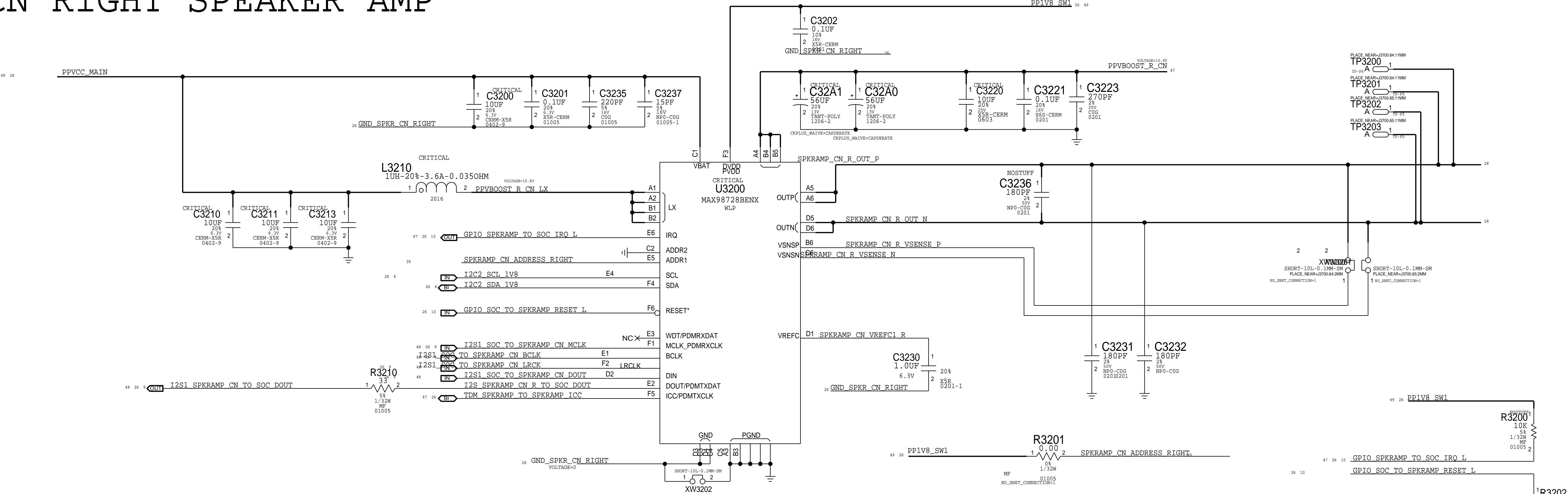
MATCHES J207_MIC_FLEX_051-01915_0.5.0
MLB APN: 516S1278
FLEX APN: 516S1280
CRITICAL
J3100
24-5857-016-201-829
P-ST-SM



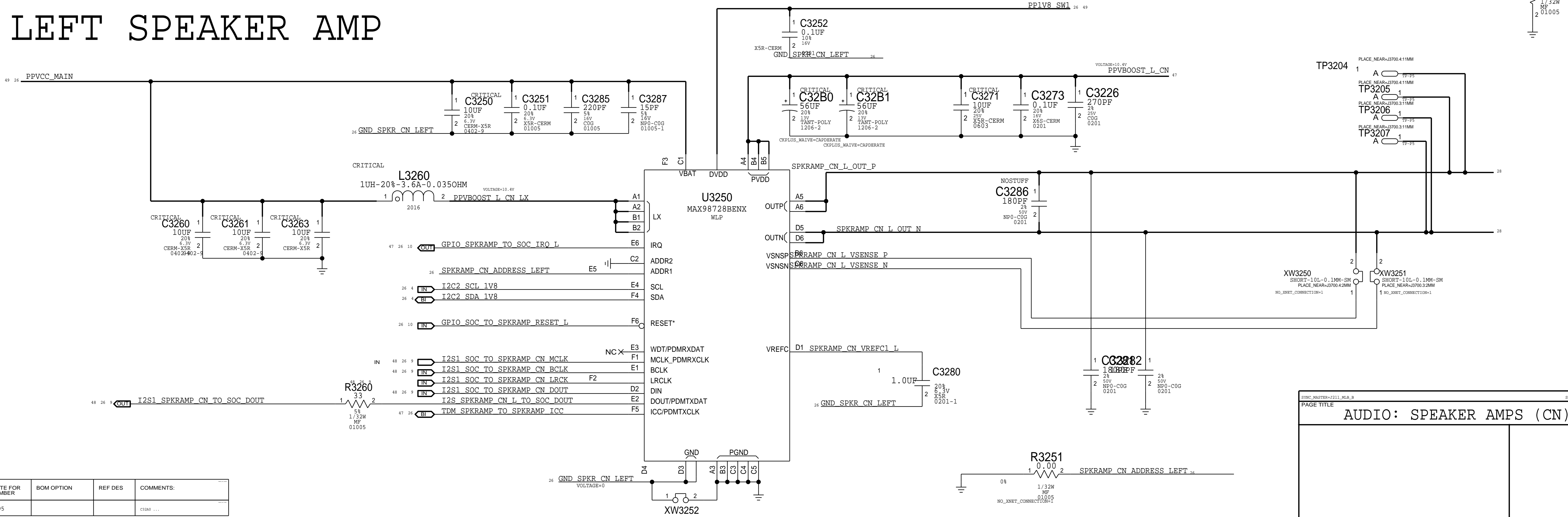
ROUTING	HOST	LOCATION	DATA ASSERTS ON	DATA LATCHED ON
MIC1	DMIC1	HIGH	CENTER SPLINE	CLK RISING EDGE
MIC2	DMIC1	LOW	REAR	CLK FALLING EDGE

SYNC_MASTER=J207B_MLB_B
PAGE TITLE
FLEX CONNS: C4 & DMIC
PAGE NUMBER
1

CN RIGHT SPEAKER AMP



CN LEFT SPEAKER AMP



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

SYNCH_MASTER=2211_NGR_B		SYNCH_DATE=07/05/2018	
PAGE TITLE			
AUDIO: SPEAKER AMPS (CN)			

HYDRA

D

B

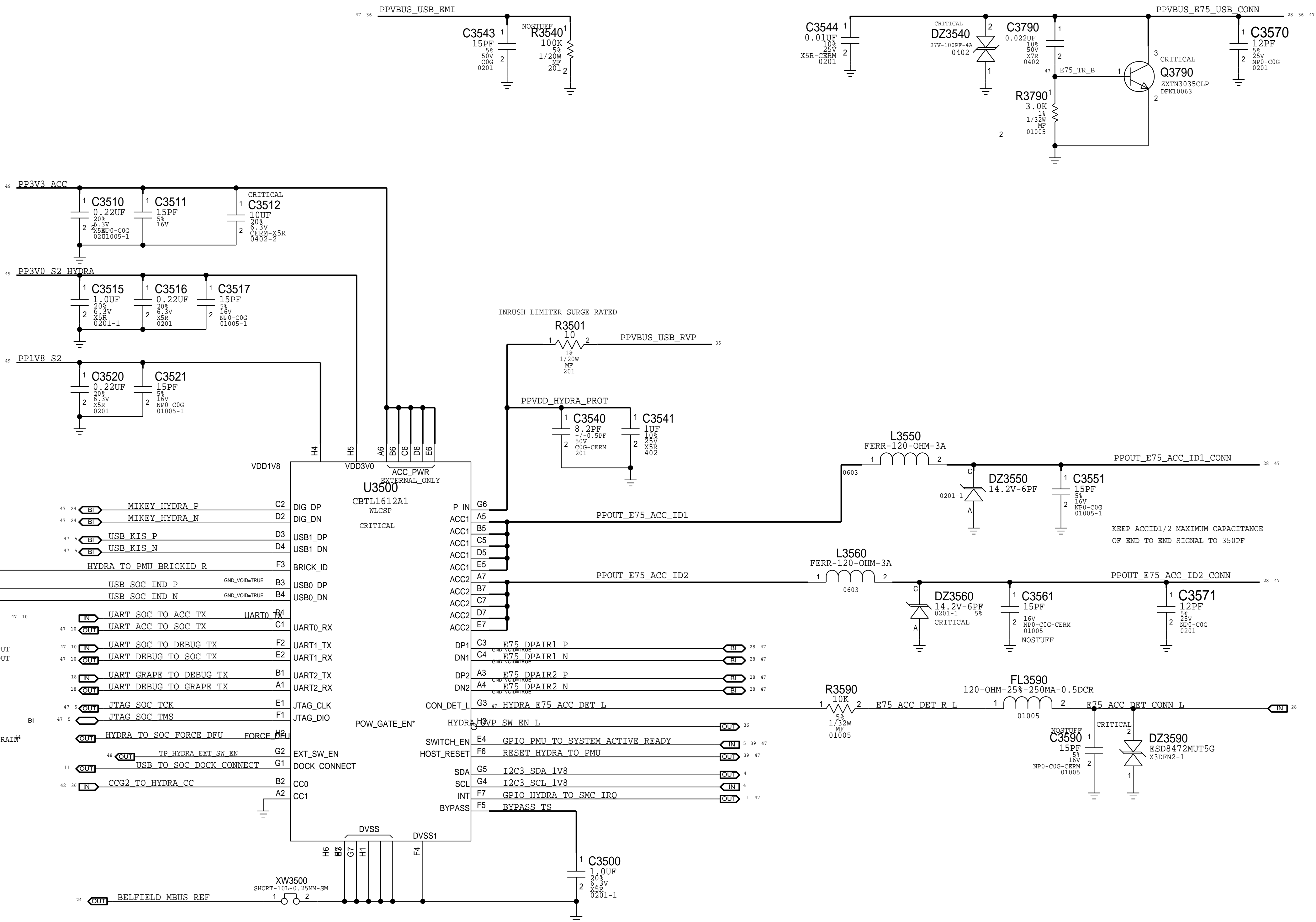
A

D

C

B

A



HOTBAR CONNECTOR TO I/O FLEX

TO BE MATCHED TO J217_IO_FLEX

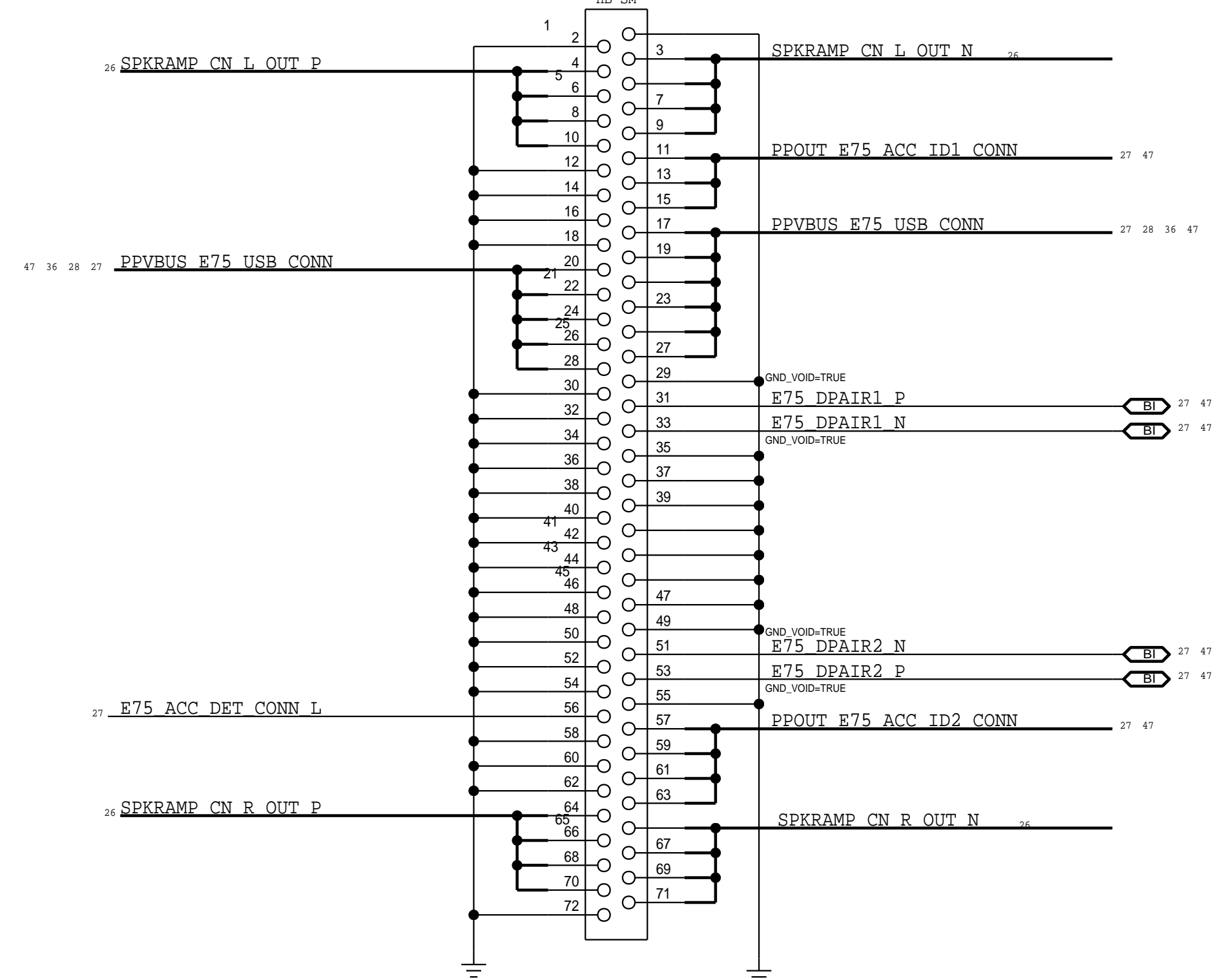
MLB APN: 998-01935

FLEX APN: 998-01936

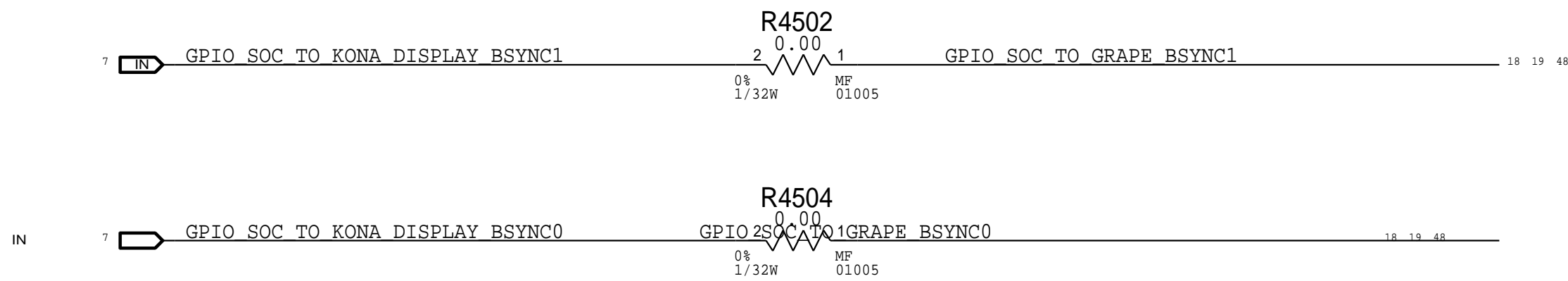
J3700

PCB-0.60MM

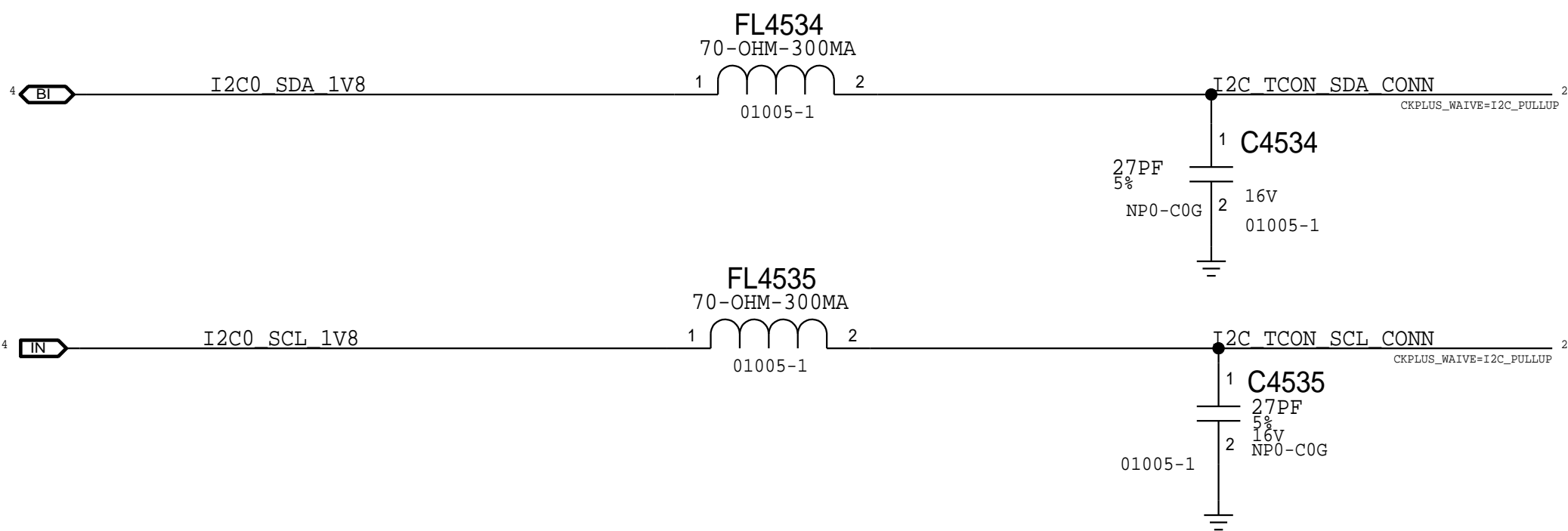
HB-SM



EDP FLEX FILTERS AND CONNECTORS

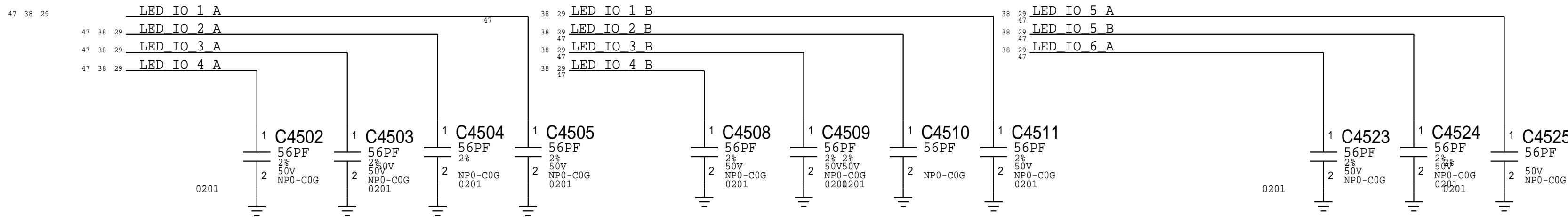


TCON I2C FILTERS



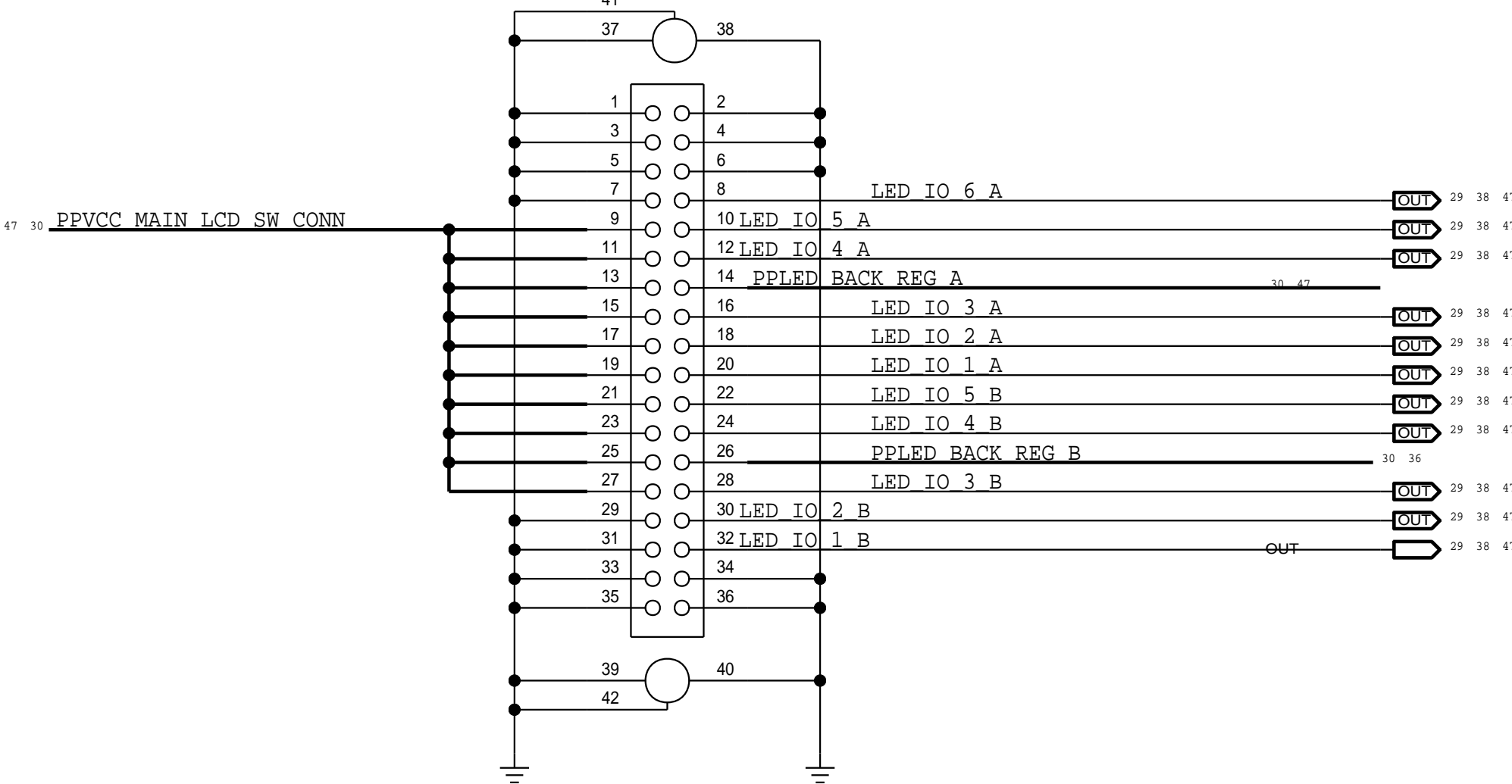
----- DISPLAY ID -----
0 - X1452 (OXIDE DISPLAY)
1 - X1449 (A-SI DISPLAY)

LED DRIVER FILTERS



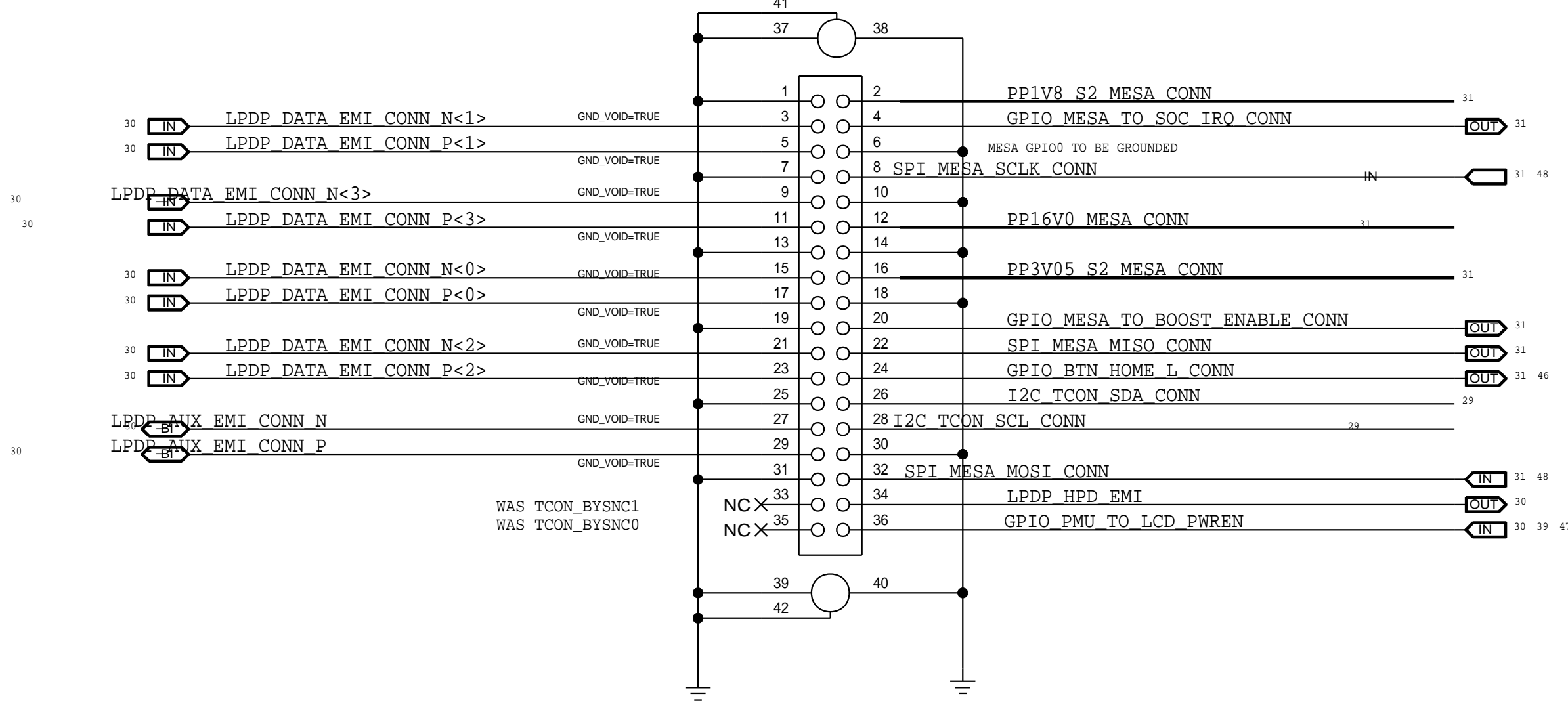
MATCHES J207_EDP_FLEX_051-01615_2.0.0
APN (FLEX): 516S1282
APN (MLB): 516S1281

J4500
24-5859-036-201-829
F-ST-SM



MATCHES J207_EDP_FLEX_051-01615_2.0.0
APN (FLEX): 516S1282
APN (MLB): 516S1281

J4520
24-5859-036-201-829
F-ST-SM



SYNC_MASTER=J207B_MLB_B
PAGE TITLE

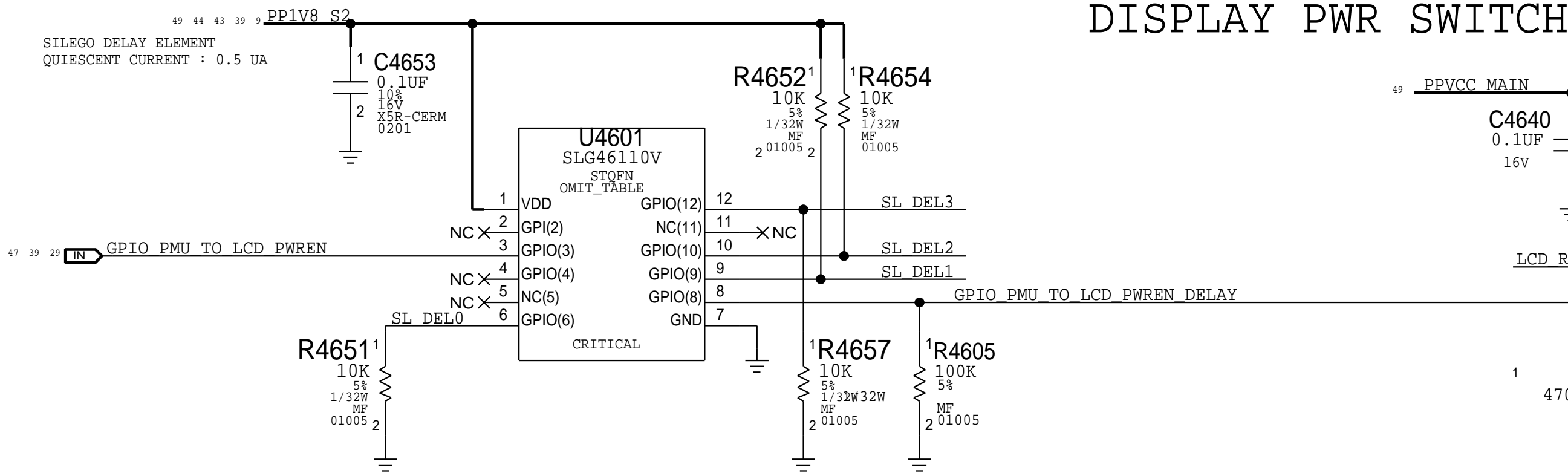
DISPLAY CONN



EDP CONNECTOR SUPPORT

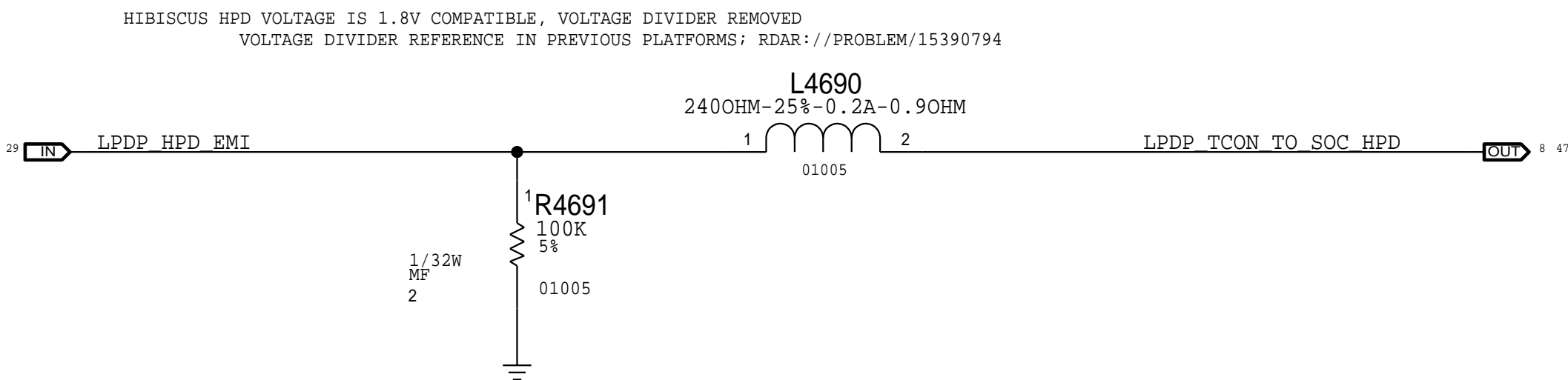
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S0914	155S0897		L4602, ETC	RADAR: //PROBLEM/21527410

DISPLAY PWR SWITCH

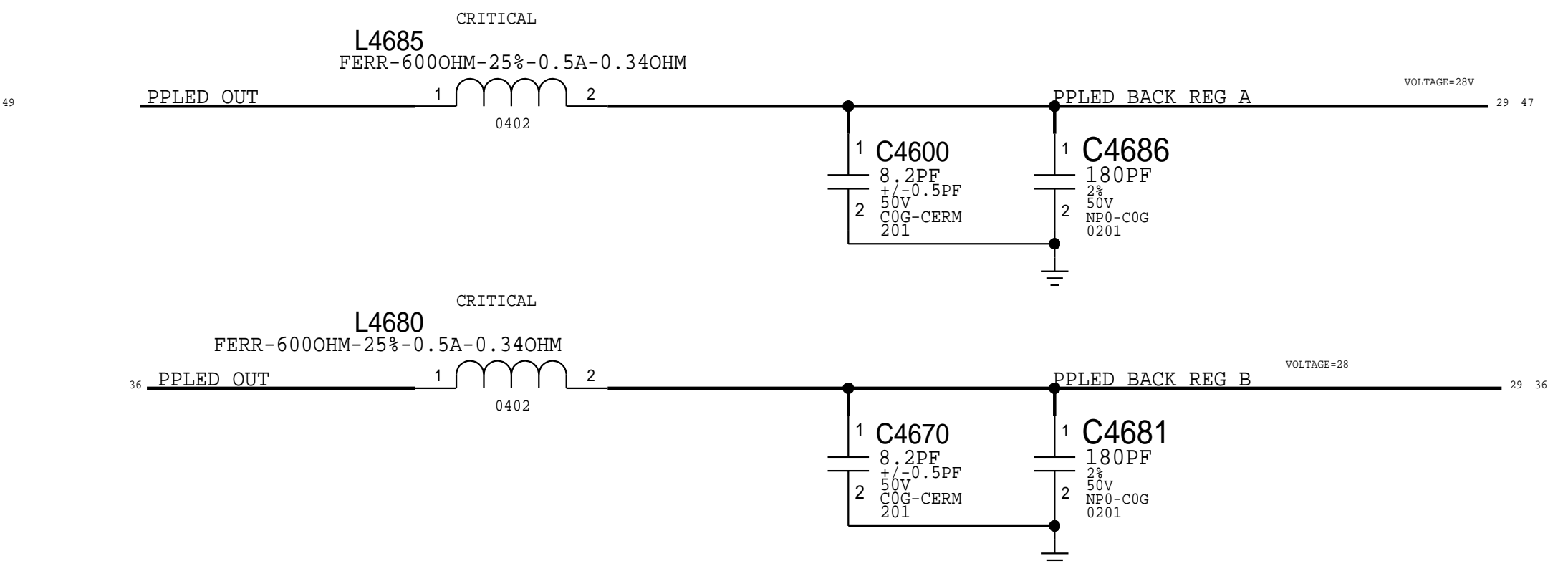
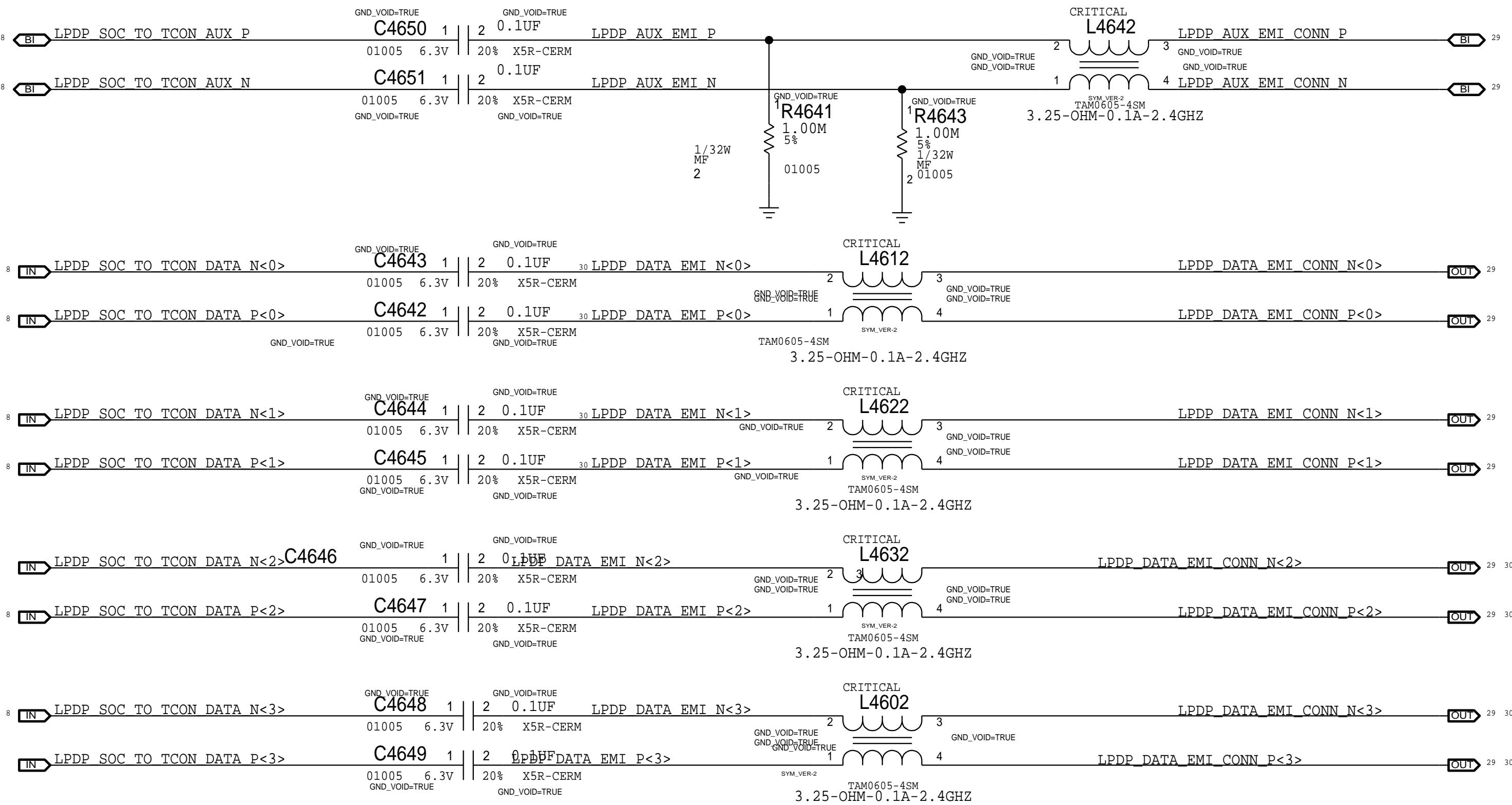
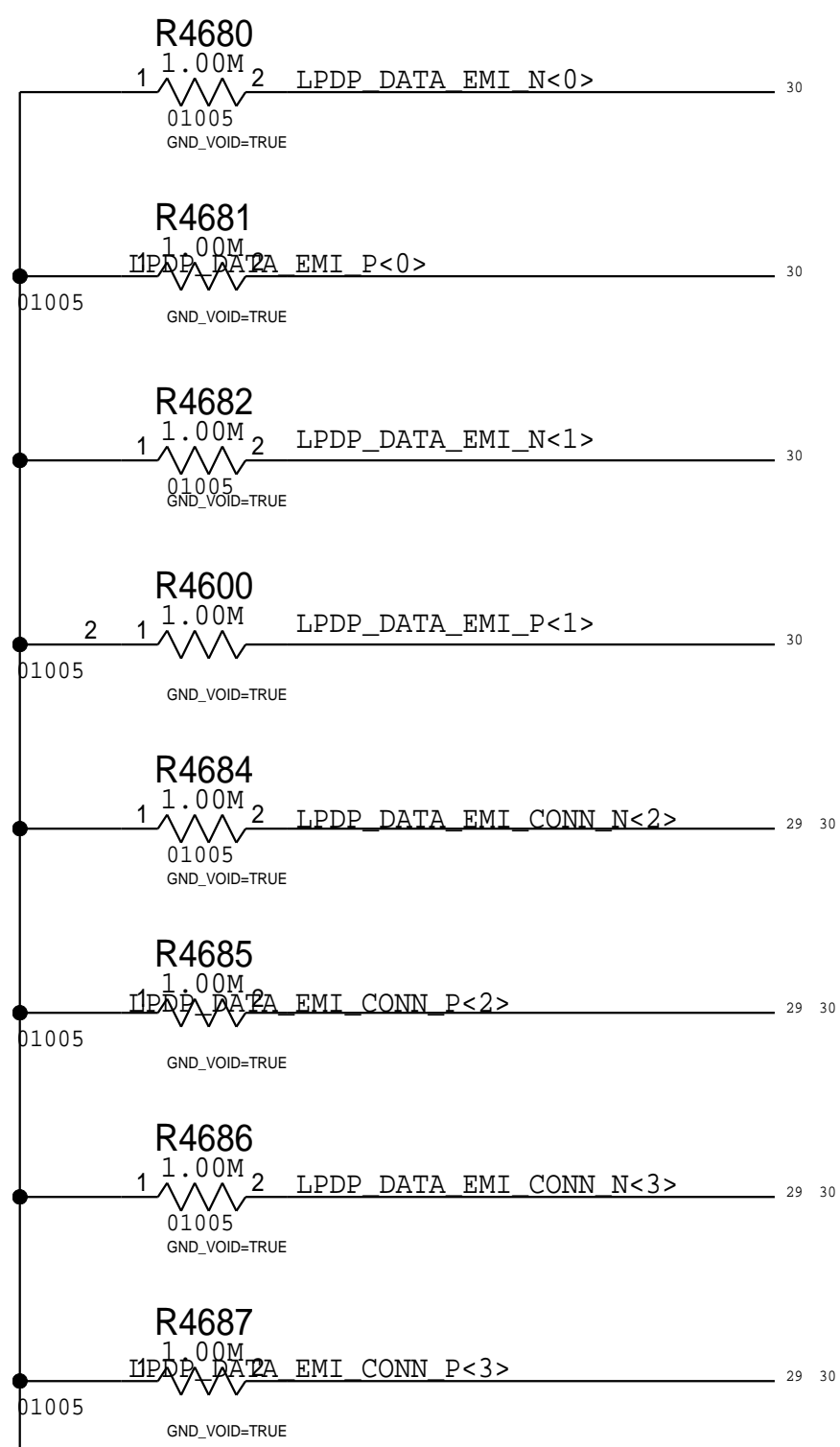


FALLING EDGE CONFIG		MIN OFF TIME	
SL_DEL0 - LOW , SL_DEL1 - LOW	N/A	SL_DEL2 - LOW , SL_DEL3 - LOW	N/A
SL_DEL0 - LOW , SL_DEL1 - HIGH	50 MS	SL_DEL2 - LOW , SL_DEL3 - HIGH	50 MS
SL_DEL0 - HIGH, SL_DEL1 - LOW	75 MS	SL_DEL2 - HIGH, SL_DEL3 - LOW	100 MS
SL_DEL0 - HIGH, SL_DEL1 - HIGH	100 MS	SL_DEL2 - HIGH, SL_DEL3 - HIGH	150 MS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343S00293	1	DISP. DELAY SAK, SLG4AP41158	U4601	CRITICAL	



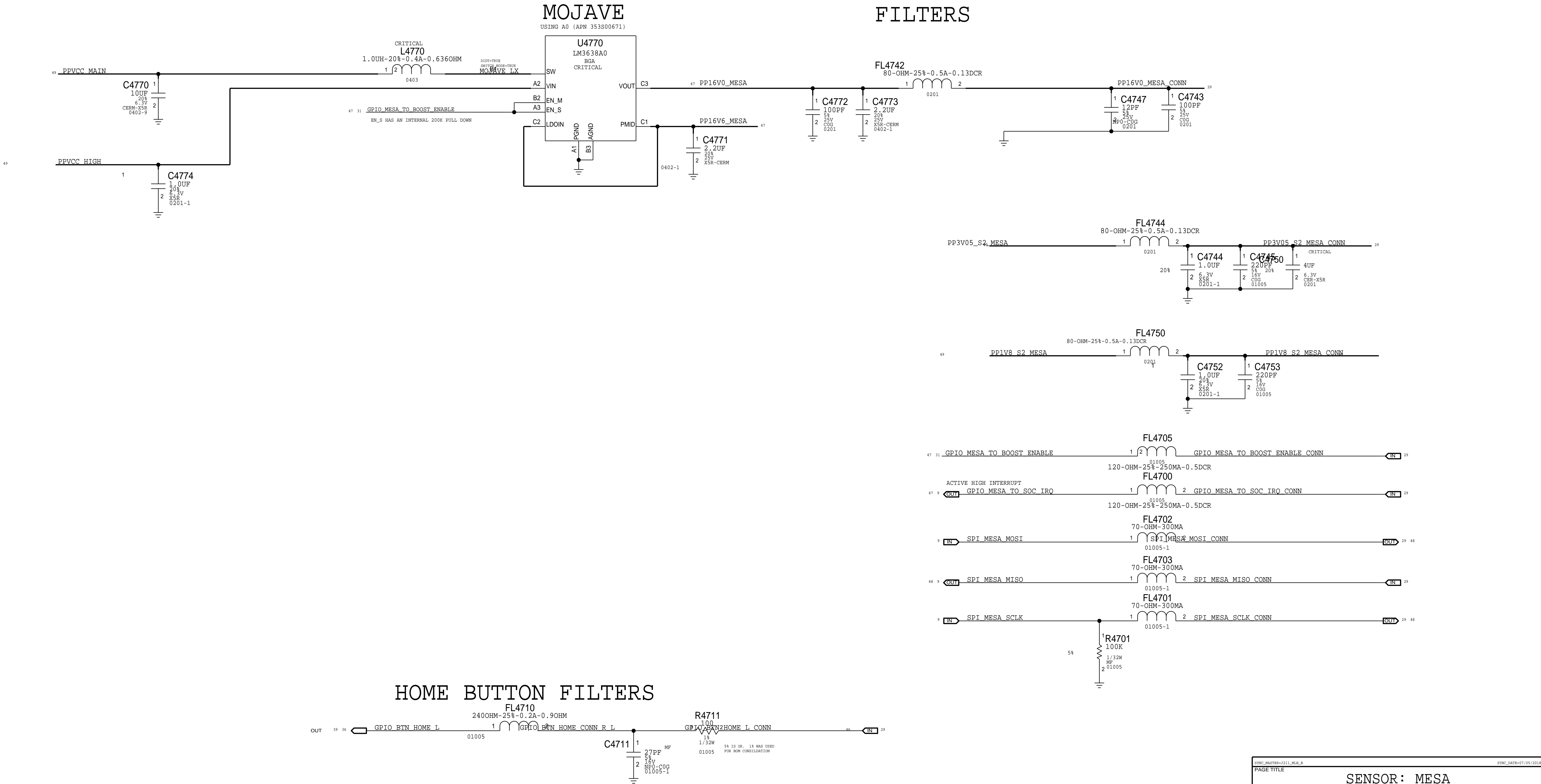
LPDP-AC COUPLING & CMC



SYNC_MASTER=J207B_MLB_B	SYNC_DATE=03/25/2018
PAGE TITLE	DISPLAY: EDP SUPPORT

MESA & HOME BUTTON

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
132S00088	132S0639		04746, ETC	RDAR: // PROBLEM/26928883



WLAN SYMBOL IO PORTS

POWER

```

53 46 45 34 33 PPVCC MAIN
70 69 61 IO VOLTAGE=3.8

45 PR1V8_G2_EXT SW2
IO VOLTAGE=1.8

```

CONTROL

```

45 33 IO GPIO_PMU_TO_WLAN_REG_ON
45 33 IO GPIO_PMU_TO_BT_REG_ON
45 33 IO GPIO_SOC_BT_DEVICE_WAKE

```

CLOCKS

```

45 33 IO CLK PMU TO WLAN 32K
GPIQ1 WLAN TO SOC TIME SYNC

```

WLAN PCIE

45	IO	PCIE SOC TO WLAN REFCLK P
45	IO	PCIE SOC TO WLAN REFCLK N
45	IO	PCIE SOC TO WLAN TX P
45	IO	PCIE SOC TO WLAN TX N
45	IO	PCIE WLAN TO SOC TX C P
45	IO	PCIE WLAN TO SOC TX C N
45	IO	PCIE SOC TO WLAN RESET L
45	IO	PCIE WLAN TO SOC CLKREQ L
45	IO	GPIO WLAN TO PMU HOST WAKE

BLWLAN UART

```

45 33 IO UART SOC TO BT TX
45 33 IO UART BT TO SOC TX
45 33 IO UART SOC TO BT RTS L
45 33 IO UART BT TO SOC RTS L

```

AOP

IO 45 33 GPIO AOP TO WLAN CONTEXT A

IO 45 33 GPIO AOP TO WLAN CONTEXT B

COEX

```

46 33 {IO} UART COEX BB TO WLAN TXD
46 33 {IO} UART COEX WLAN TO BB TXD

```

RF

```

35 34 {IO} 50 DRX LAA LNA2 OUT
35 34 {IO} 50 PRX LAA LNA1 OUT

```

RFFE

```

58 34 10 PP 1V8 XCVR TO FE RX RFFE IO
58 34 32 10 XCVR RX RFFE CLK WLAN
58 34 32 10 XCVR RX RFFE DATA WLAN
58 34 10 PP 1V8 XCVR TO FE RX RFFE IO
58 34 32 10 XCVR RX RFFE CLK WLAN
58 34 32 10 XCVR RX RFFE DATA WLAN

```

PENCIL

1045	33	19	18	48	IO	GPIO SOC TO BT TO GRAPE TS SYNC
	48	45	33	18	IO	GPIO TOUCH TO BT SYNC
	43	33			IO	NC BT TO SCORPIUS TX IND
	45	33			IO	NC GPIO WLAN TO SCORPIUS TX IND

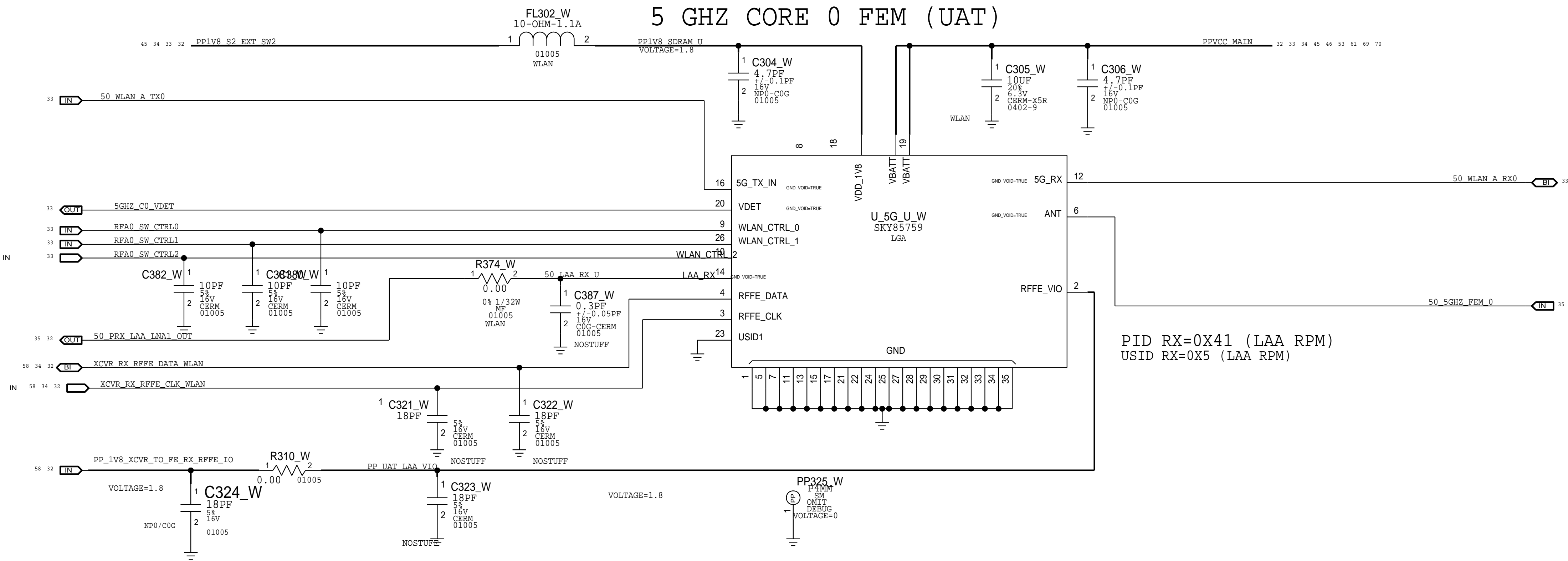
D



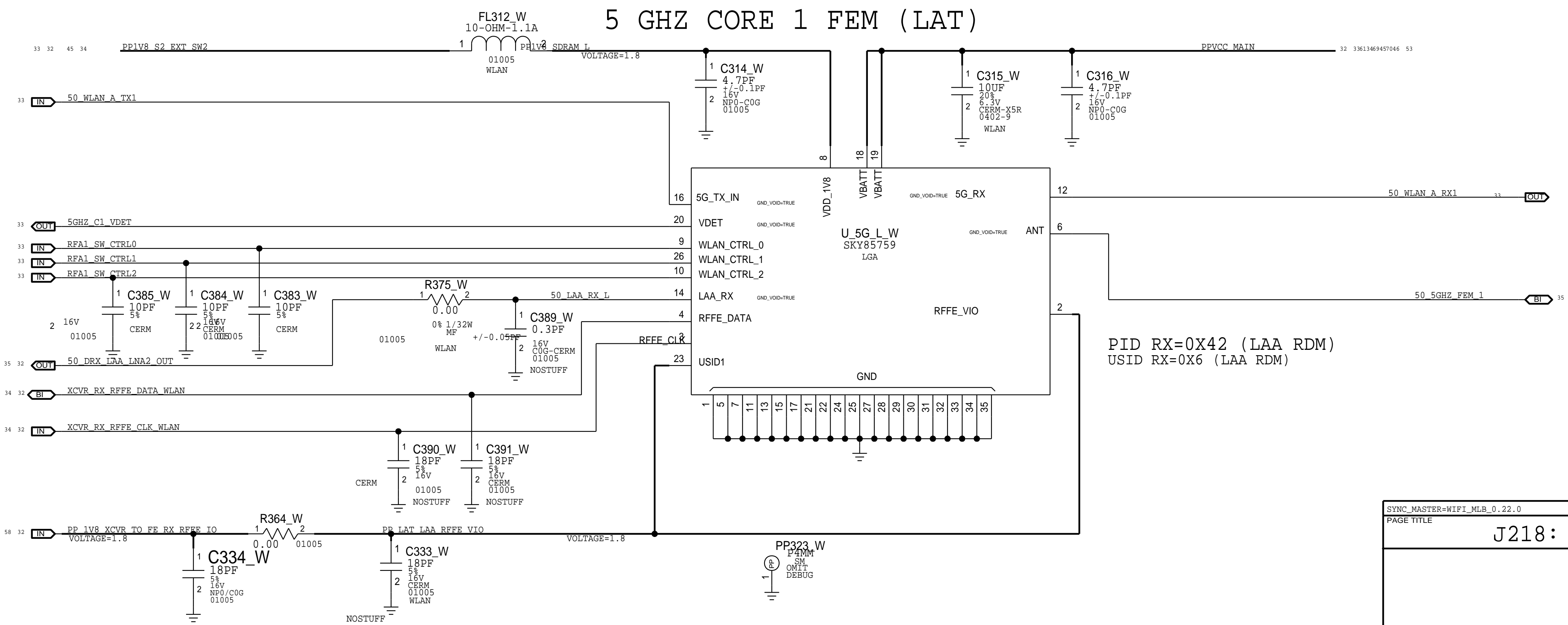
SYNC_DATE=09/26/2018

J217+J218: Diet Coke Primary Module

J218: DIET COKE REMOTE FEMS



PID RX=0x41 (LAA RPM)
USID RX=0x5 (LAA RPM)



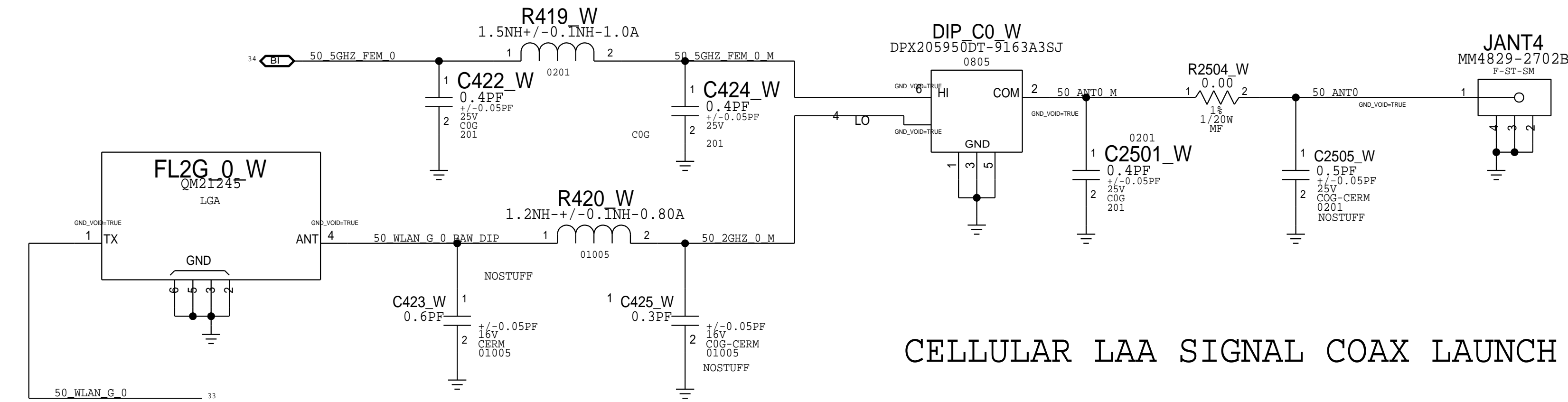
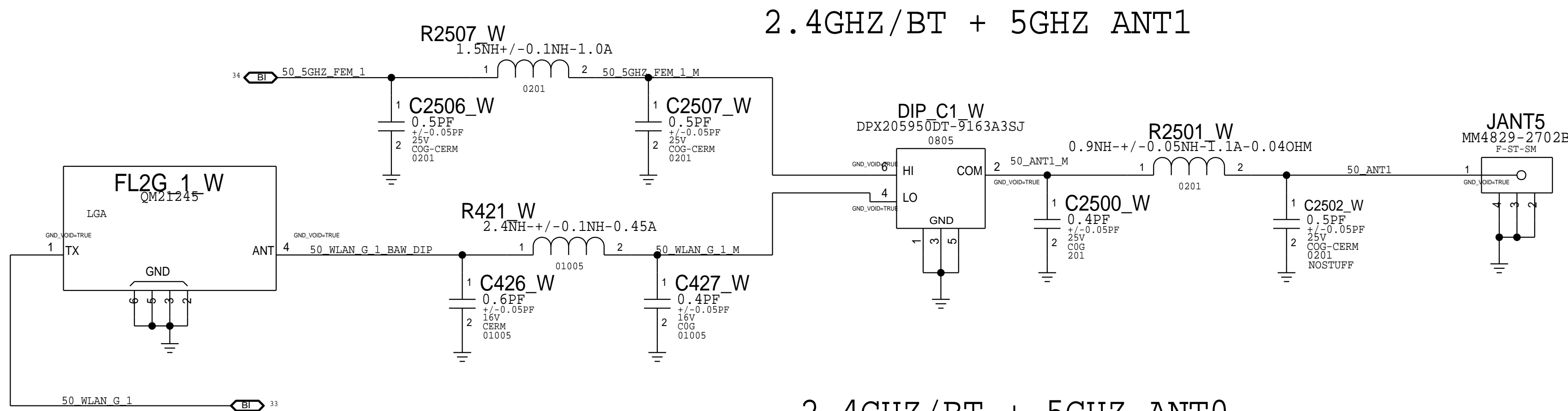
PID RX=0x42 (LAA RDM)
USID RX=0x6 (LAA RDM)

SYNC_MASTER=WIFI_MLB_0.22.0 SYNC_DATE=09/26/2018

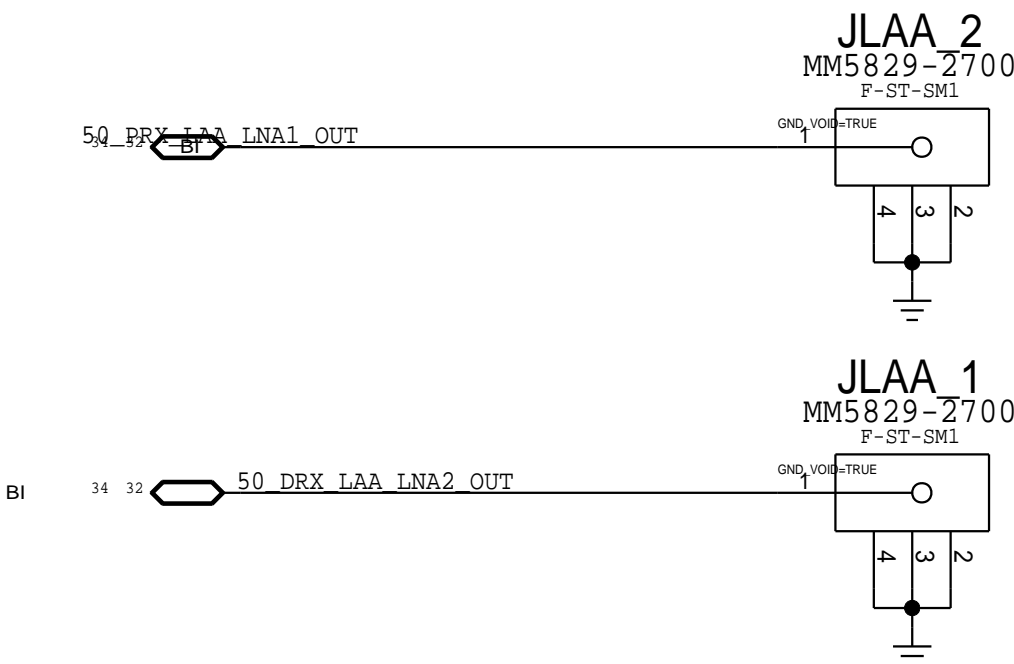
PAGE TITLE

J218: Remote FEMs

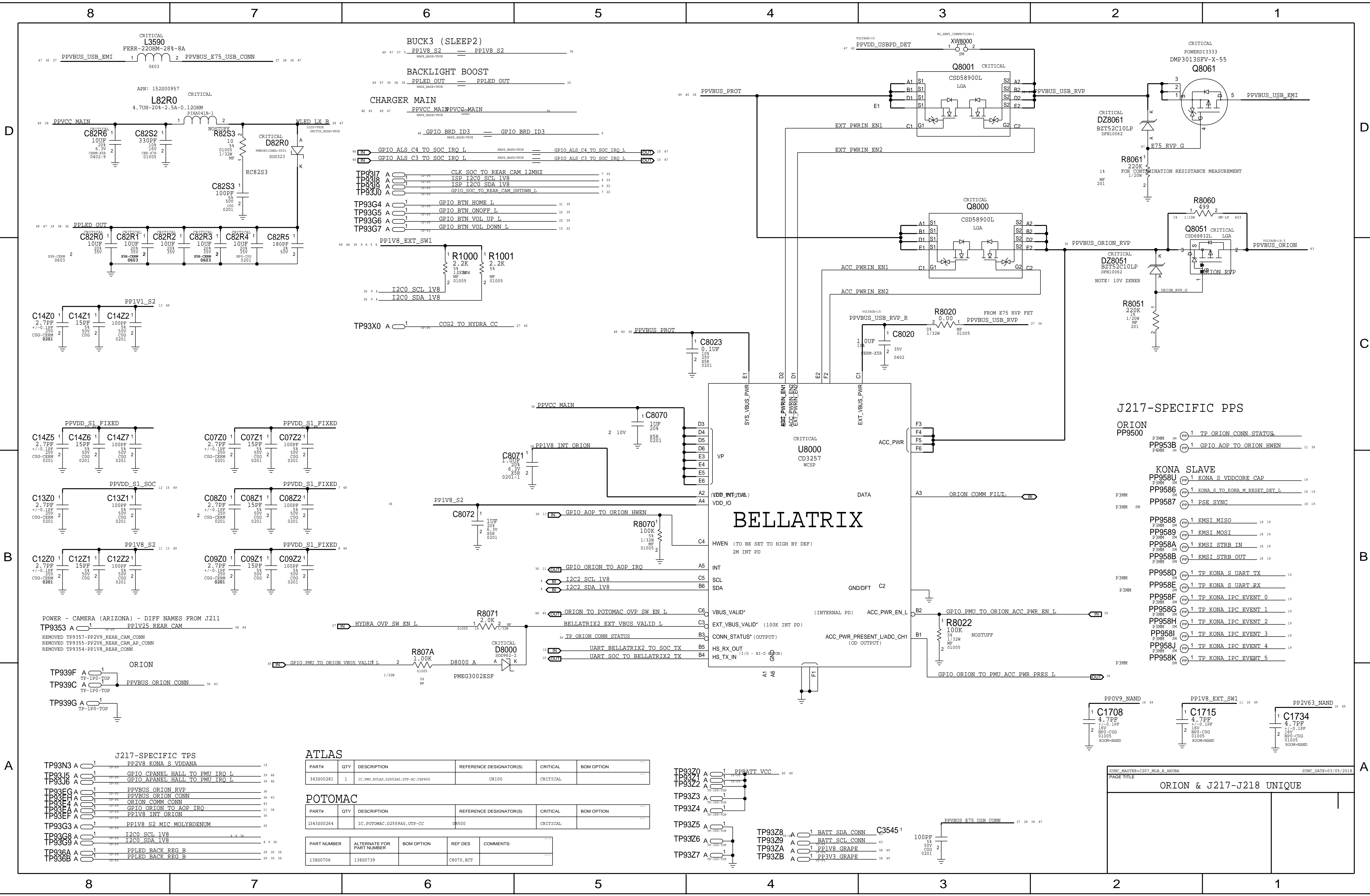
J218: FRONT END



CELLULAR LAA SIGNAL COAX LAUNCH



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
131S00030	1	CAP,CER,COG,HQ,0.7PF,,0201	C243_W	
15282021	1	NOSTUFF	C238_W	NOSTUFF
152800421	1	IND,FILM,1.4NH,,UH-Q,01005	R237_W	
152800423	1	IND,,FILM,1.6NH,+/-0.1NH,,01005	R238_W	
131S00030	1	CAP,CER,COG,0.4PF,16V,01005	C244_W	
13180893	1	CAP,CER,COG,0.2PF,01005,HQ	C231_W	



ATLAS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343800281	1	IC, PMU, ATLAS, D2652A0, OTP-AC, CSP400	U8100	CRITICAL	

POTOMAC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
1343800264		IC, POTOMAC, D2559A0, OTP-CC	U8500	CRITICAL	

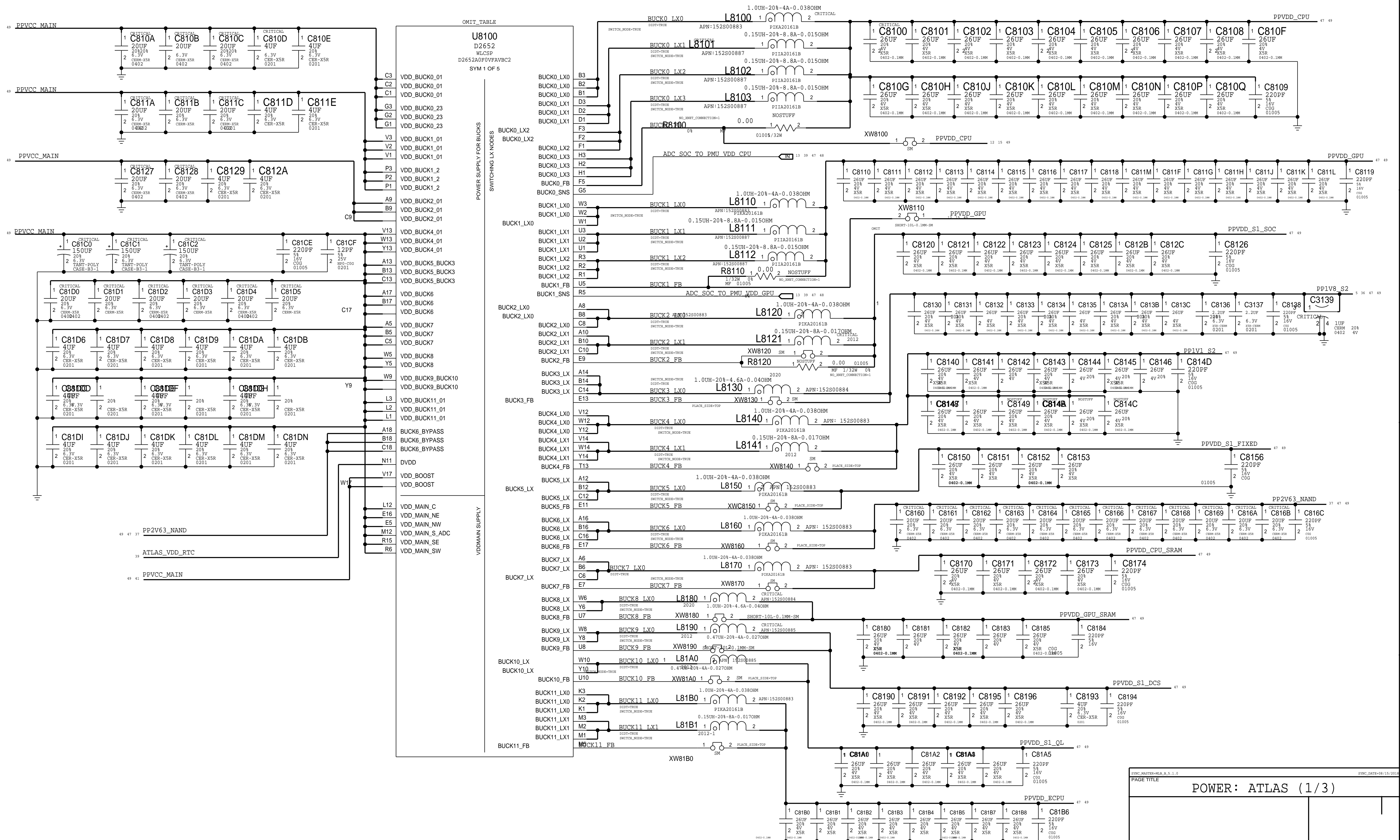
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
13880706	13880739		C8070, ECT	

SYNC_MASTER=J207_MLB_B_ARUBA SYNC_DATE=03/05/2018

PAGE TITLE

ORION & J217-J218 UNIQUE

ATLAS BUCKS



POTOMAC / RENO



A

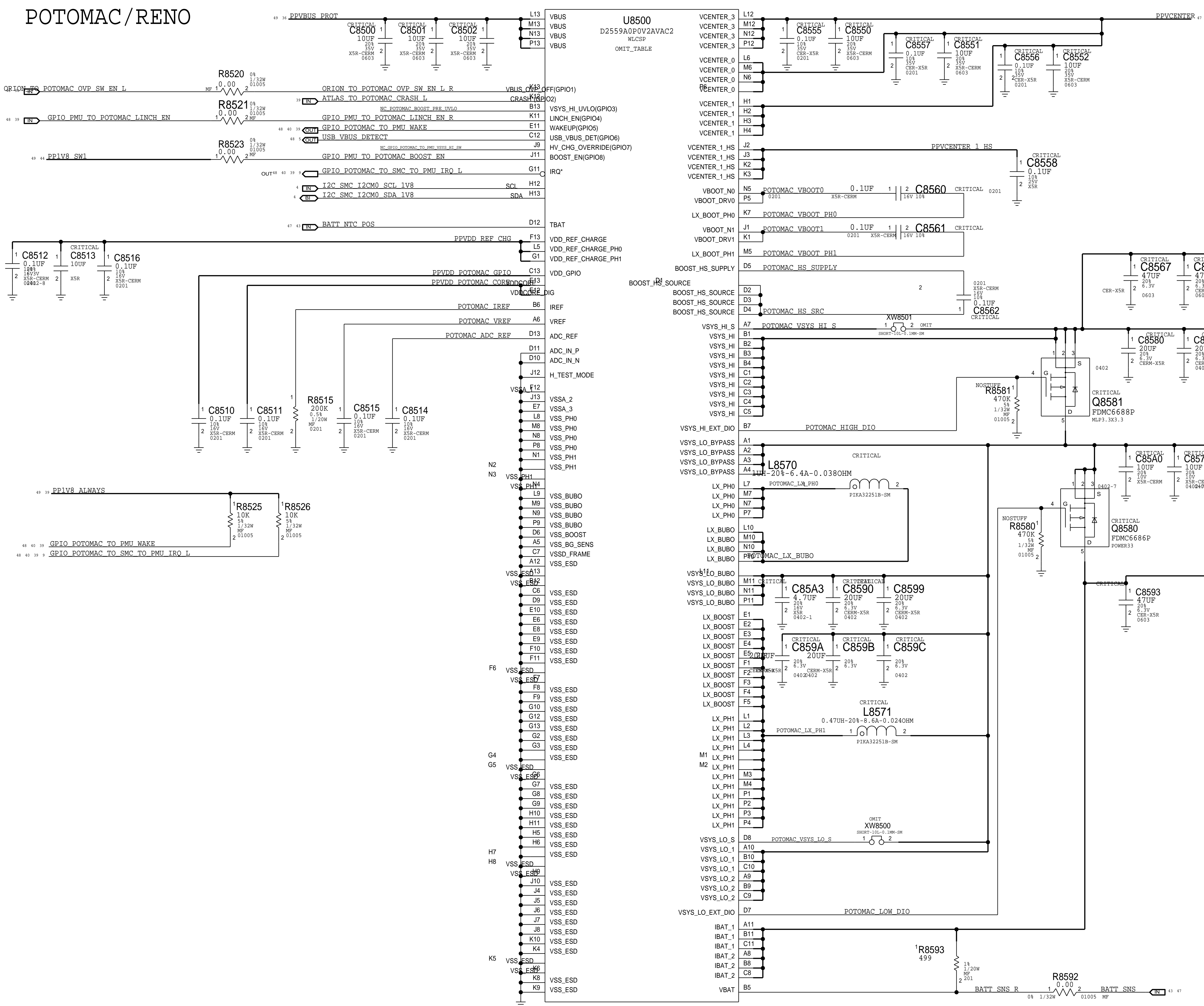
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376S00071	376S00070		Q8581, ECT	RDAR: ///PROBLEM/20277540



C

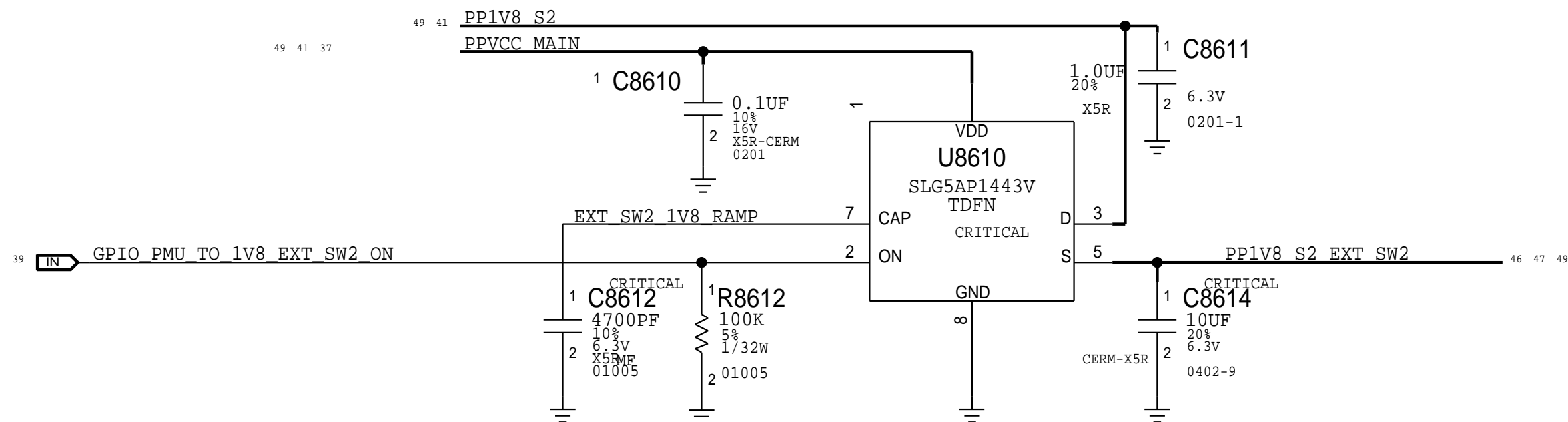
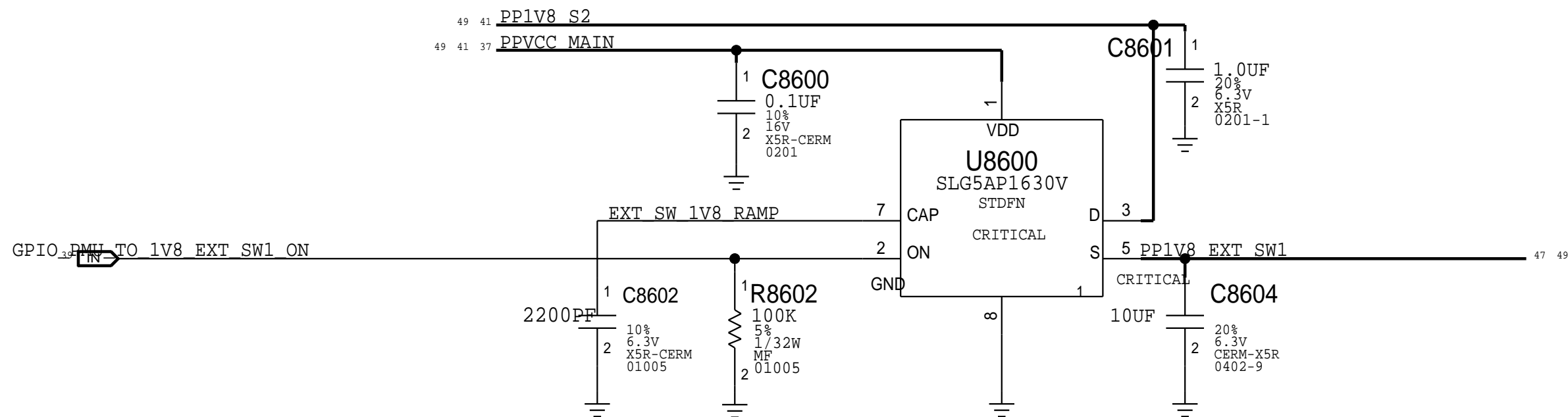
B

—△

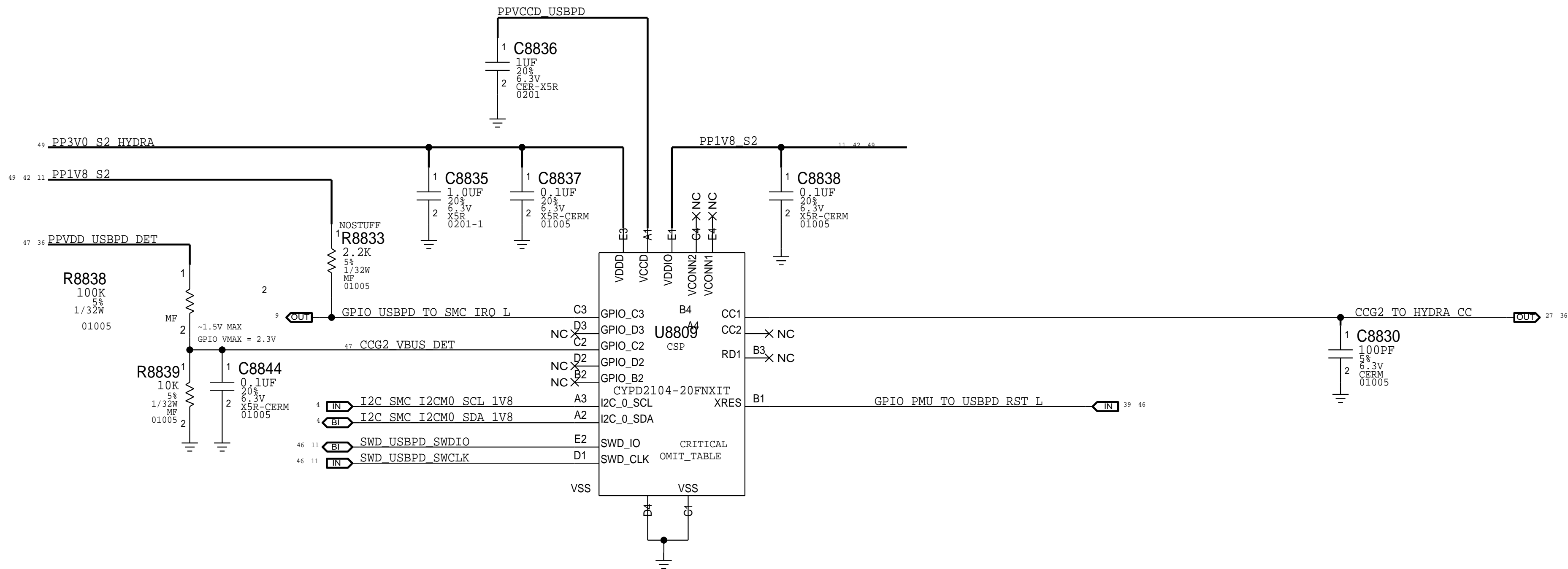


FILE: MASTER-2211_MCB.D	SYN: DATE=07/05/2016
PAGE TITLE	
POWER: CHARGER	

EXTERNAL POWER SWITCHES



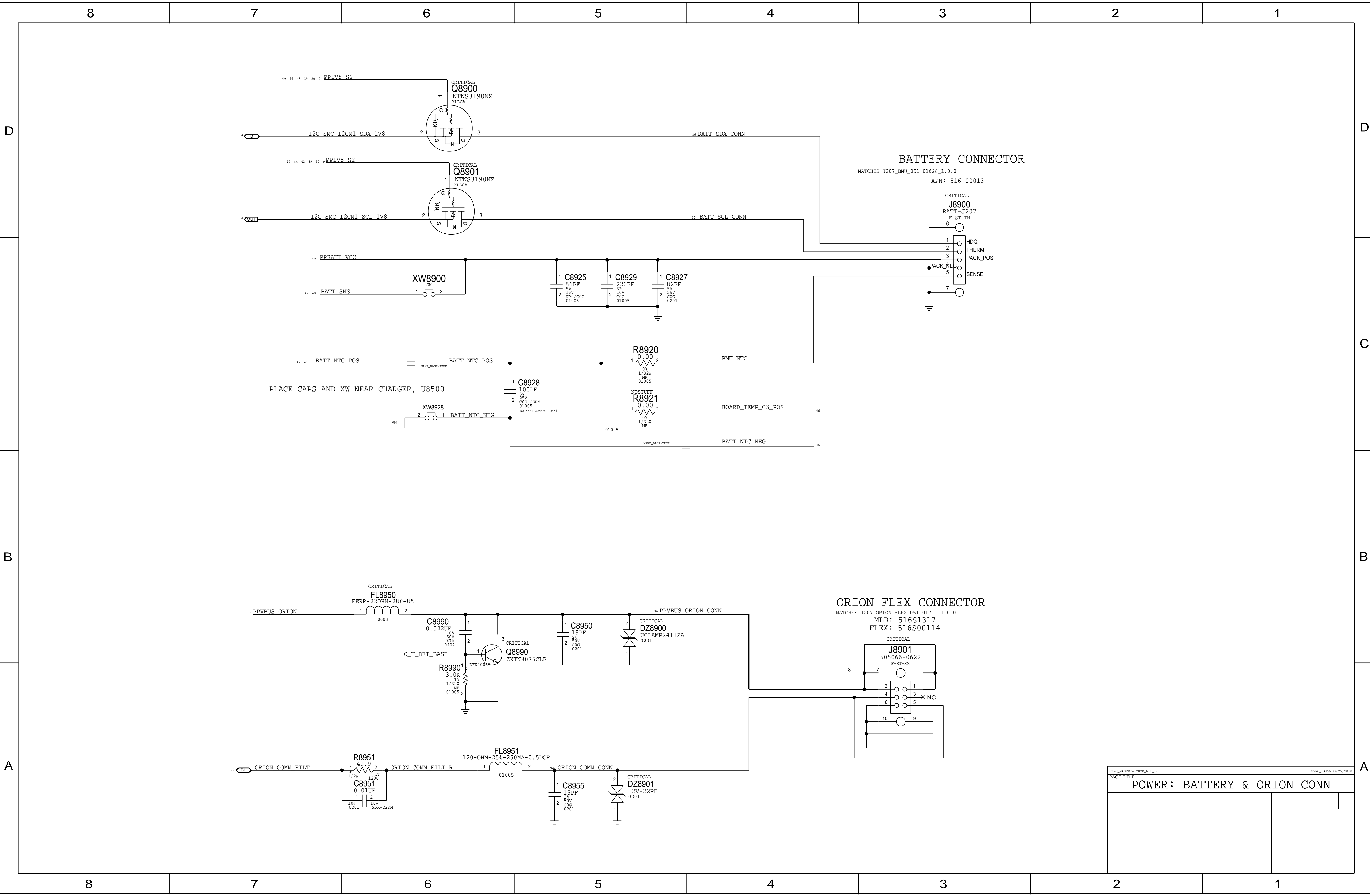
USBPD



SYMC_MASTER=2211_MCB_B SYMC_DATE=07/05/2018

PAGE TITLE

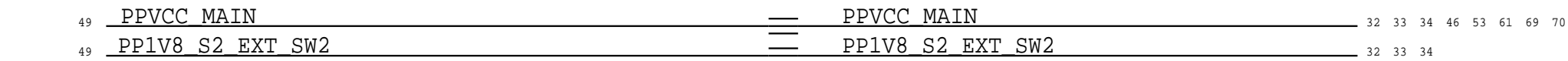
POWER: USB PD



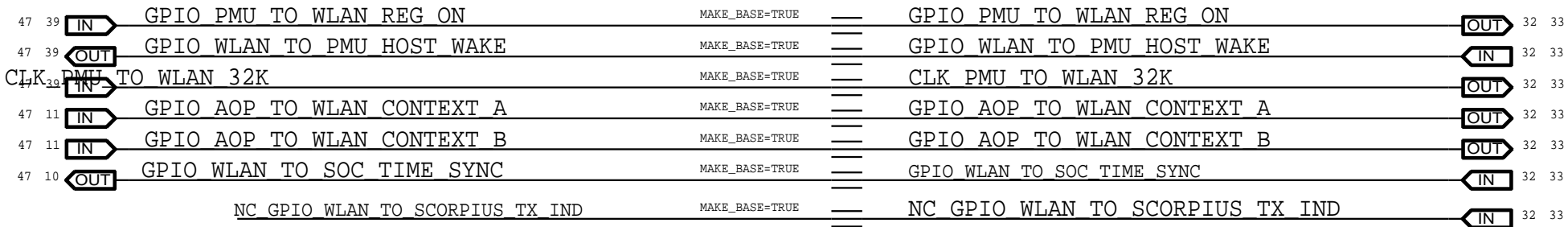
WLAN/BT ALIASES

WLAN

POWER

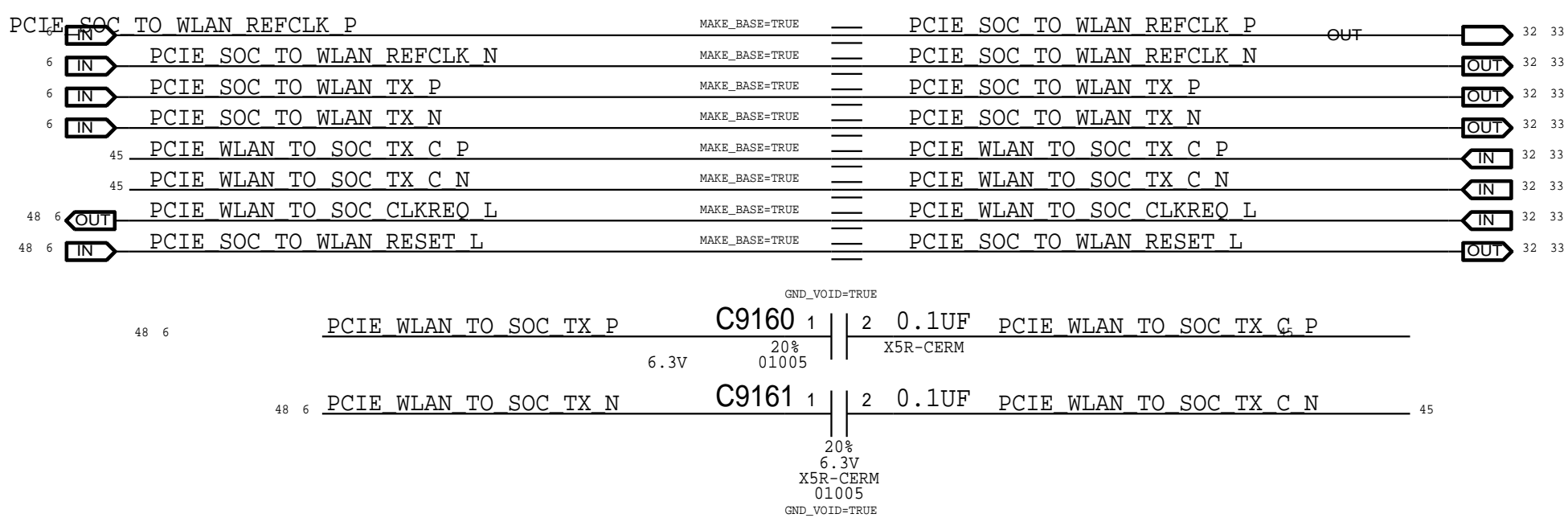


GPIOs



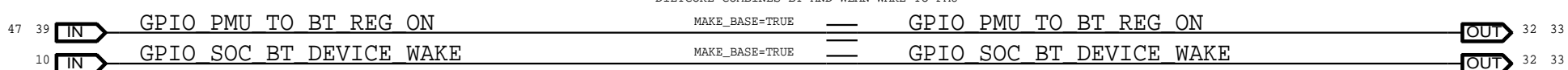
UART (SHARED WITH BT)

PCIE

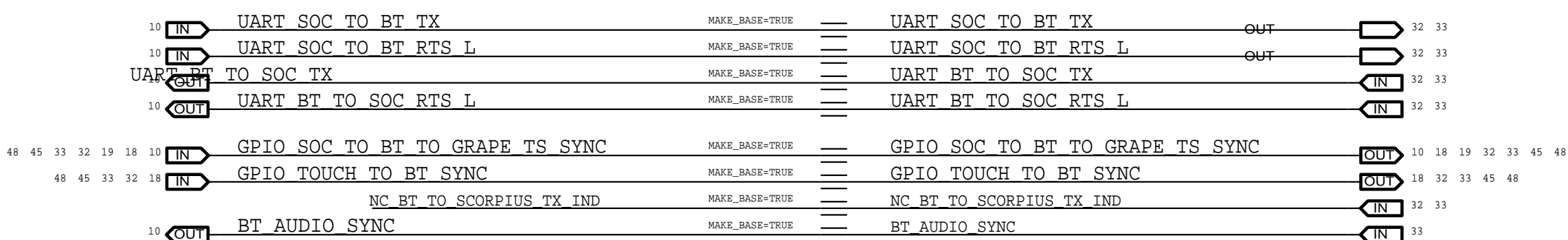


BLUETOOTH

SOC GPIOs

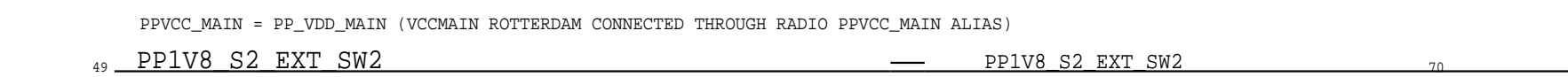


UART

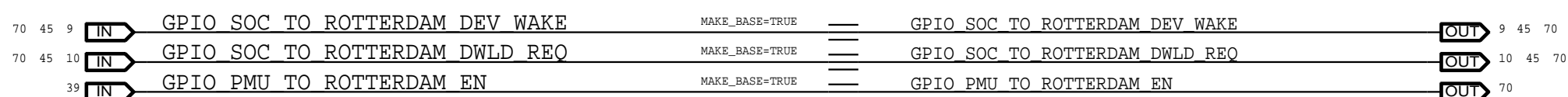


ROTTERDAM

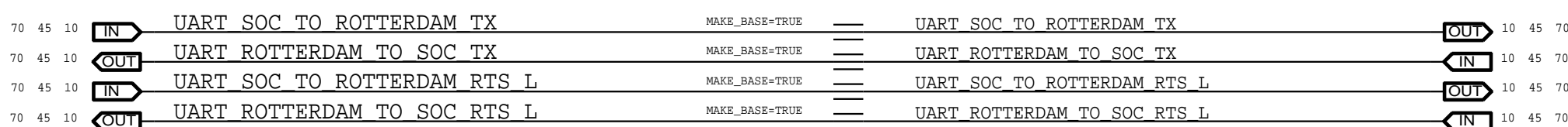
POWER

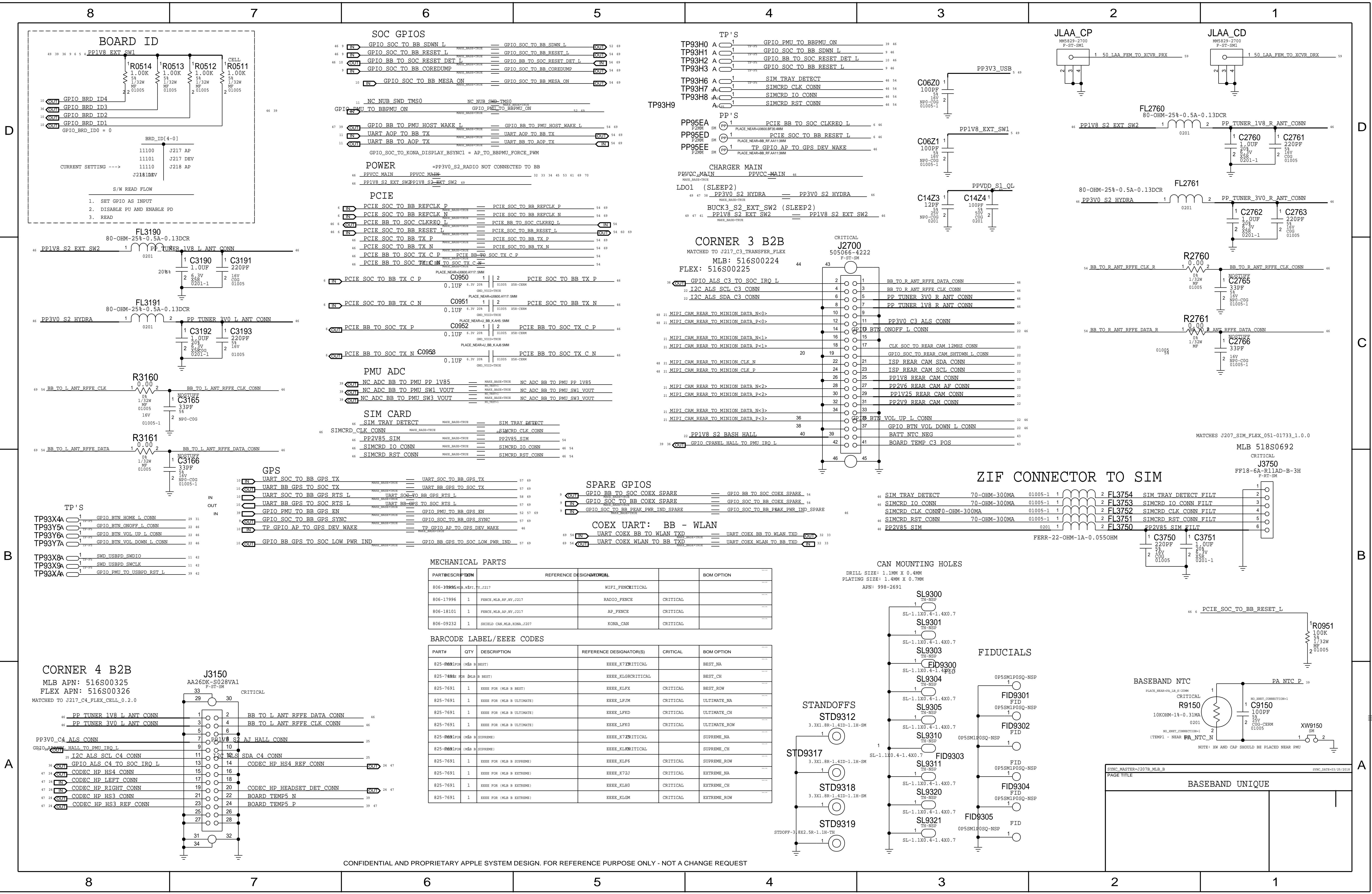


GPIOs

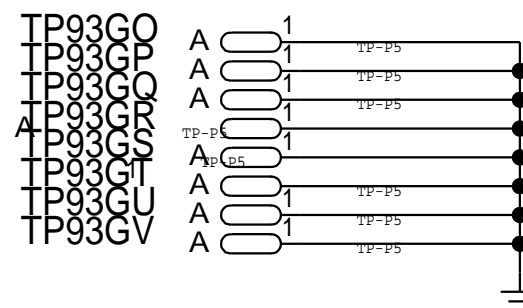
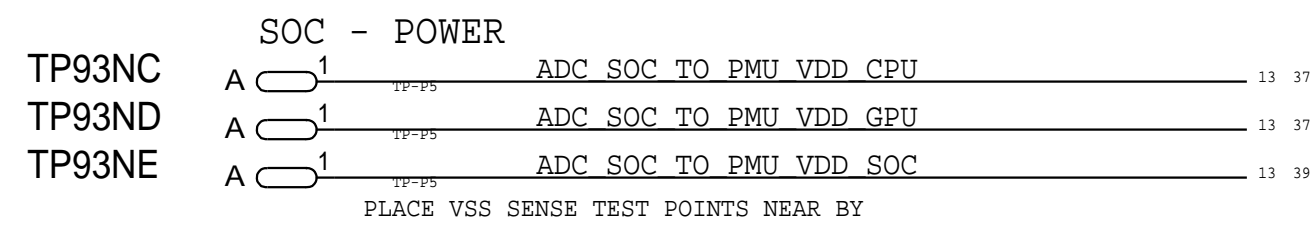
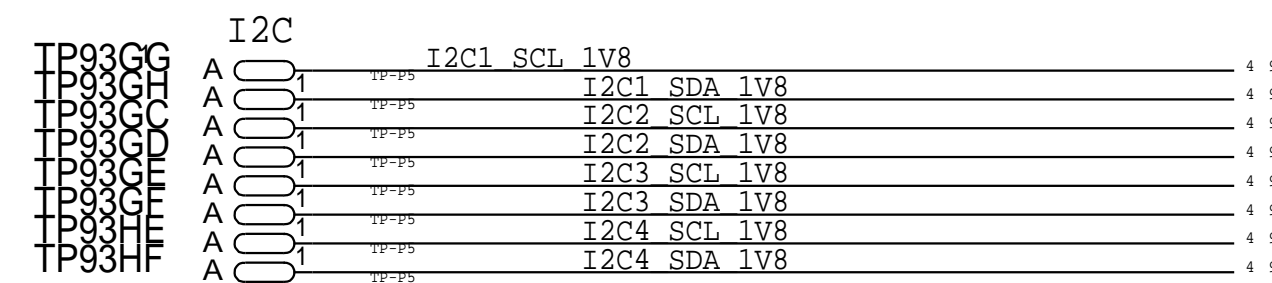
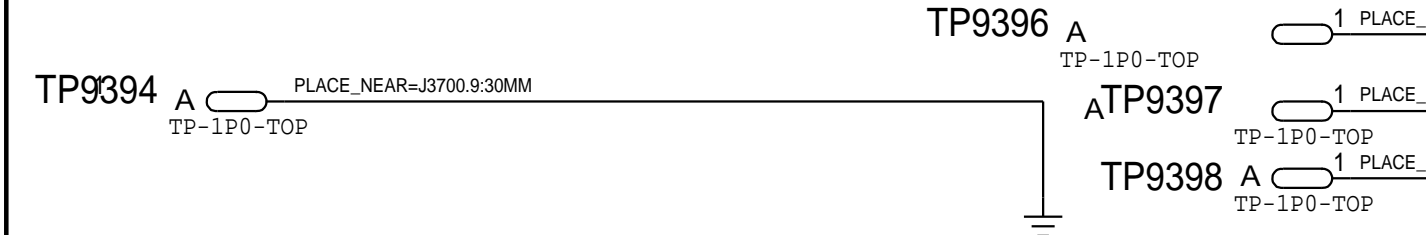


UART





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



EE CHARACTERIZATION PP/TP

SOC

PP9504	P3MM	SM	PP	1	ADC_SOC_TO_PMU_ANALOGMUX_OUT	5	33
PP950C	P3MM	SM	PP	1	VDDOL_SENSE_POS		13
PP9505	P3MM	SM	PP	1	ADC_SOC_TO_PMU_VDD_SOC	13	39 47
PP9506	P3MM	SM	PP	1	SOC_SENSE_NEG		13 47
PP9507	P3MM	SM	PP	1	ADC_SOC_TO_PMU_VDD_GPU	13	37 39 47
PP9508	P3MM	SM	PP	1	GPU_SENSE_NEG		13
PP9509	P3MM	SM	PP	1	DCS_SENSE_POS		13
PP950A	P3MM	SM	PP	1	ADC_SOC_TO_PMU_VDD_CPU	13	37 39 47
PP950B	P3MM	SM	PP	1	CPU_PCORE_SENSE_NEG		13 47
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		27
--------	------	----	----	---	--------------------	--	----

CODEC I2S

PP9510	P2MM	SM	PP	1	I2S_AOP_TO_CODEC_BCLK		11 24
PP9511	P2MM	SM		1	I2S_AOP_TO_CODEC_LRCK		11 24
PP9512	P2MM	SM	PP	1	I2S_AOP_TO_CODEC_DOUT		11 24
PP9513	P2MM	SM	PP	1	I2S_CODEC_TO_AOP_DOUT		11 24

BELFIELD I2S

PP9514	P2MM	SM	PP	1	I2S0_SOC_TO_BELFIELD_BCLK		9 24
PP9515	P2MM	SM	PP	1	I2S0_SOC_TO_BELFIELD_LRCK		9 24
PP9516	P2MM	SM		1	I2S0_SOC_TO_BELFIELD_DOUT		9 24
PP9517	P2MM	SM	PP	1	I2S0_BELFIELD_TO_SOC_DOUT		9 24
PP9518	P2MM	SM	PP	1	I2S0_SOC_TO_BELFIELD_MCLK		9 24

CN SPEAKER I2S

PP9525	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_MCLK		9 26
PP9526	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_BCLK		9 26
PP9527	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_LRCK		9 26
PP9528	P2MM	SM	PP	1	I2S1_SOC_TO_SPKRAMP_CN_DOUT		9 26
PP9529	P2MM	SM	PP	1	I2S1_SPKRAMP_CN_TO_SOC_DOUT		9 26

POTOMAC

PP9539	P2MM	SM	PP	1	SYS_ALIVE		16 39
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AUDIO

PP953A	P2MM	SM	PP	1	GPIO_CODEC_TO_SOC_IRO_L		9 24
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BELFIELD SPI LINES

PP9540	P3MM	SM	PP	1	SPI_BELFIELD_CS_L		9 24
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PP9542	P3MM	SM	PP	1	SPI_BELFIELD_MOSI		9 24
PP9543	P3MM	SM	PP	1	SPI_BELFIELD_MISO		9 24

SENSOR SPI LINES

PP9544	P3MM	SM	PP	1	SPI_SENSORS_SCLK	PLACE_NEAR=U2150.2.10MM	11 17 25 48
PP9545	P3MM	SM	PP	1	SPI_SENSORS_MISO	PLACE_NEAR=U8609.2C3.10MM	
PP9546	P3MM	SM	PP	1	SPI_SENSORS_MOSI	PLACE_NEAR=U2150.3.10MM	11 17 25 48
PP9547	P3MM	SM	PP	1	SPI_SENSORS_SCLK	PLACE_NEAR=U2120.4.10MM	11 17 25 48
PP9548	P3MM	SM	PP	1	SPI_SENSORS_SCLK	PLACE_NEAR=U2140.A3.10MM	11 17 25 48
PP9549	P3MM	SM	PP	1	SPI_SENSORS_MOSI	PLACE_NEAR=U2120.3.10MM	11 17 25 48
PP954A	P3MM	SM	PP	1	SPI_SENSORS_MOSI	PLACE_NEAR=U2140.A4.10MM	11 17 25 48

MESA SPI LINES

PP954B	P3MM	SM	PP	1	SPI_MESA_MISO		9 31
PP954C	P3MM	SM	PP	1	SPI_MESA_MOSI_CONN		29 31
PP954D	P3MM	SM	PP	1	SPI_MESA_SCLK_CONN		29 31

CAMERA - FRONT

PP9560	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_CLK_P		7 23
PP9561	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_CLK_N		7 23
PP9562	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_P<0>		7 23
PP9563	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_N<0>		7 23
PP9564	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_P<1>		7 23
PP9565	P2MM	SM	PP	1	MIPI_NH_CAM_TO_SOC_DATA_N<1>		7 23

CAMERA - REAR & MINION

PP9566	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_CLK_P		7 21
PP9567	P2MM	SM		1	MIPI_MINION_TO_SOC_CLK_N		7 21
PP9568	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_P<0>		7 21
PP9569	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_N<0>		7 21
PP956G	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_P<1>		7 21
PP956H	P2MM	SM	PP	1	MIPI_MINION_TO_SOC_DATA_N<1>		7 21

PP956A	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_CLK_P		21 46
PP956B	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_CLK_N		21 46
PP956C	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_DATA_P<0>		21 46
PP956D	P2MM	SM	PP	1	MIPI_CAM_REAR_TO_MINION_DATA_N<0>		21 46

PP956E	P2MM	SM	PP	1	GPIO_MINION_TO_SOC_CONFIG_DONE		7 21 47
PP956F	P2MM	SM	PP	1	CLK_SOC_TO_MINION_12MHZ		7 21

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 19
PP9585	P3MM	SM	PP	1	GPIO_GRAPE_TO_SOC_IRO_L		10 18

PP958C	P3MM	SM	PP	1	KONA_BOOST_ATEST		18
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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 19 29
PP958P	P3MM	SM	PP	1	GPIO_SOC_TO_GRAPE_BSYNC1		18 19 29

GRAPE POWER

PP958R	P3MM	SM	PP	1	PP3V3_GRAPE_FILT		18
PP958S	P3MM	SM	PP	1	PP1V8_GRAPE_XTAL_FILT		18 19
PP958T	P3MM	SM	PP	1	KONA_M_VDDCORE_CAP		18

PP958V	P3MM	SM	PP	1	PP1V8_GRAPE_AON_RC		18 19
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NAND PCIE TPS

PP95D4	P2MM	SM	PP	1	PLACE_NEAR=U1200.X11.3MM	PCIE_SOC_TO_NAND1_REFCLK_P	6 16
PP95D5	P2MM	SM	PP	1	PLACE_NEAR=U1200.Y12.3MM	PCIE_SOC_TO_NAND1_REFCLK_N	6 16
PP95D6	P2MM	SM	PP	1	PLACE_NEAR=U1200.F8.20MM	PCIE_SOC_TO_NAND1_RESET_L	
PP95D7	P2MM	SM	PP	1	PLACE_NEAR=U1200.Y4.20MM	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.G4.20MM	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 39
PP95G2	P2MM	SM	PP	1	GPIO_POTOMAC_TO_PMU_WAKE		39 40
PP95G3	P2MM	SM	PP	1	GPIO_POTOMAC_TO_SMC_TO_PMU_IRO_L		9 39 40
PP95G4	P2MM	SM	PP	1	ORION_TO_POTOMAC_OVP_SW_EN_L		36 40
PP95G5	P2MM	SM		1	GPIO_PMU_TO_POTOMAC_LINCH_EN		39 40
PP95G6	P2MM	SM	PP	1	ATLAS_FAULT_OUT_L		39
PP95G7	P2MM	SM	PP	1	USB_VBUS_DETECT		5 40

WIFI

PP95BL	P2MM	SM	PP	1	GPIO_SOC_TO_BT_TO_GRAPE_TS_SYNC		10 18 19 32 33 45
PP95BM	P2MM	SM	PP	1	GPIO_TOUCH_TO_BT_SYNC		18 32 33 45

WLAN PCIE TPS

PP95E0	P2MM	SM	PP	1	PLACE_NEAR=U0600.BE11.3MM	PCIE_WLAN_TO_SOC_TX_P	6 45
PP95E1	P2MM	SM	PP	1	PLACE_NEAR=U0600.BE11.3MM	PCIE_WLAN_TO_SOC_TX_N	6 45
PP95E2	P2MM	SM	PP	1	PLACE_NEAR=U0600.BF38.4MM	PCIE_WLAN_TO_SOC_CLKREQ_L	6 45

PP95E7	P2MM	SM	PP	1	PLACE_NEAR=U4000.E7.3MM	PCIE_SOC_TO_WLAN_RESET_L	6 45
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POWER CONNECTIONS

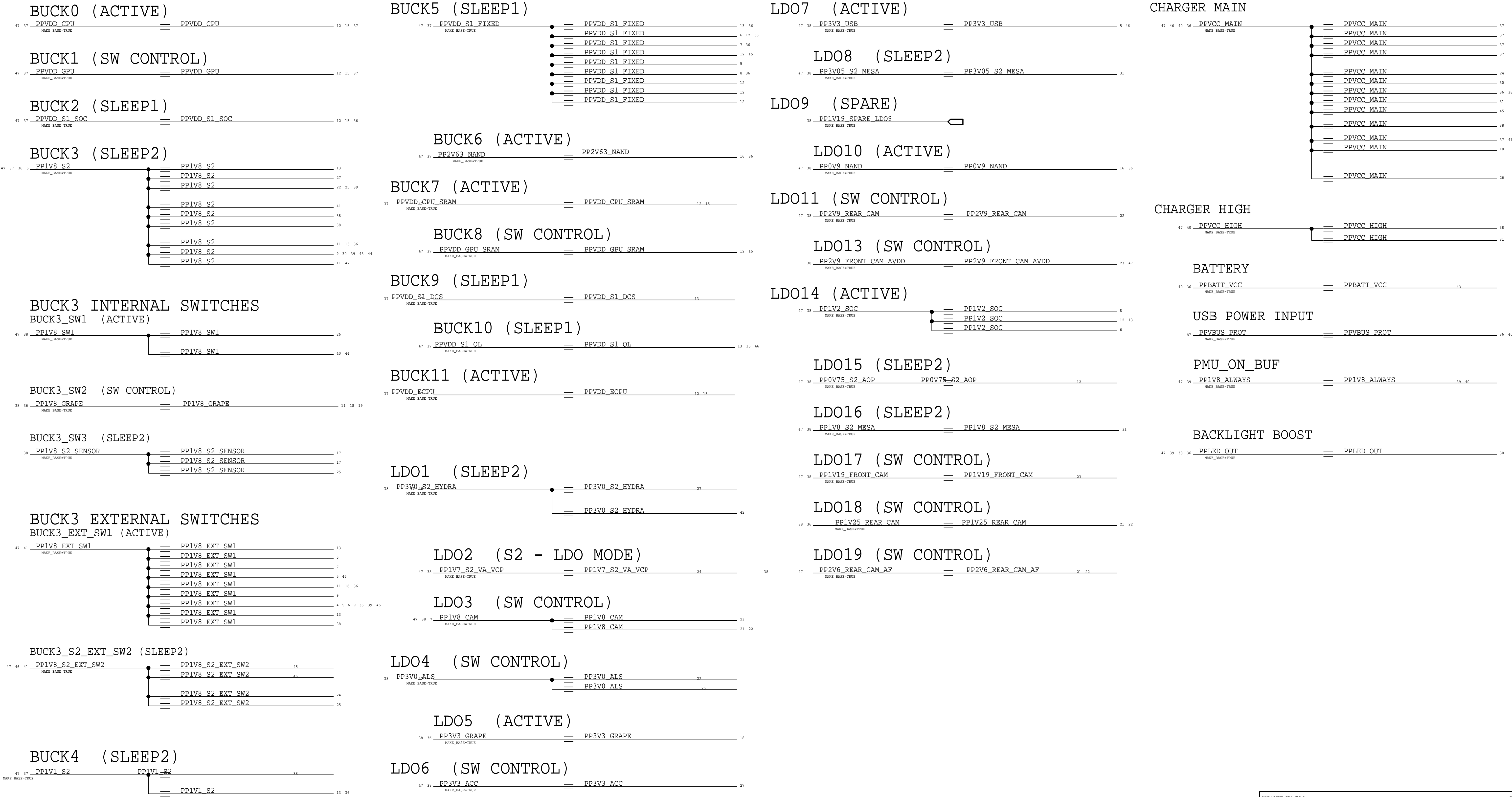
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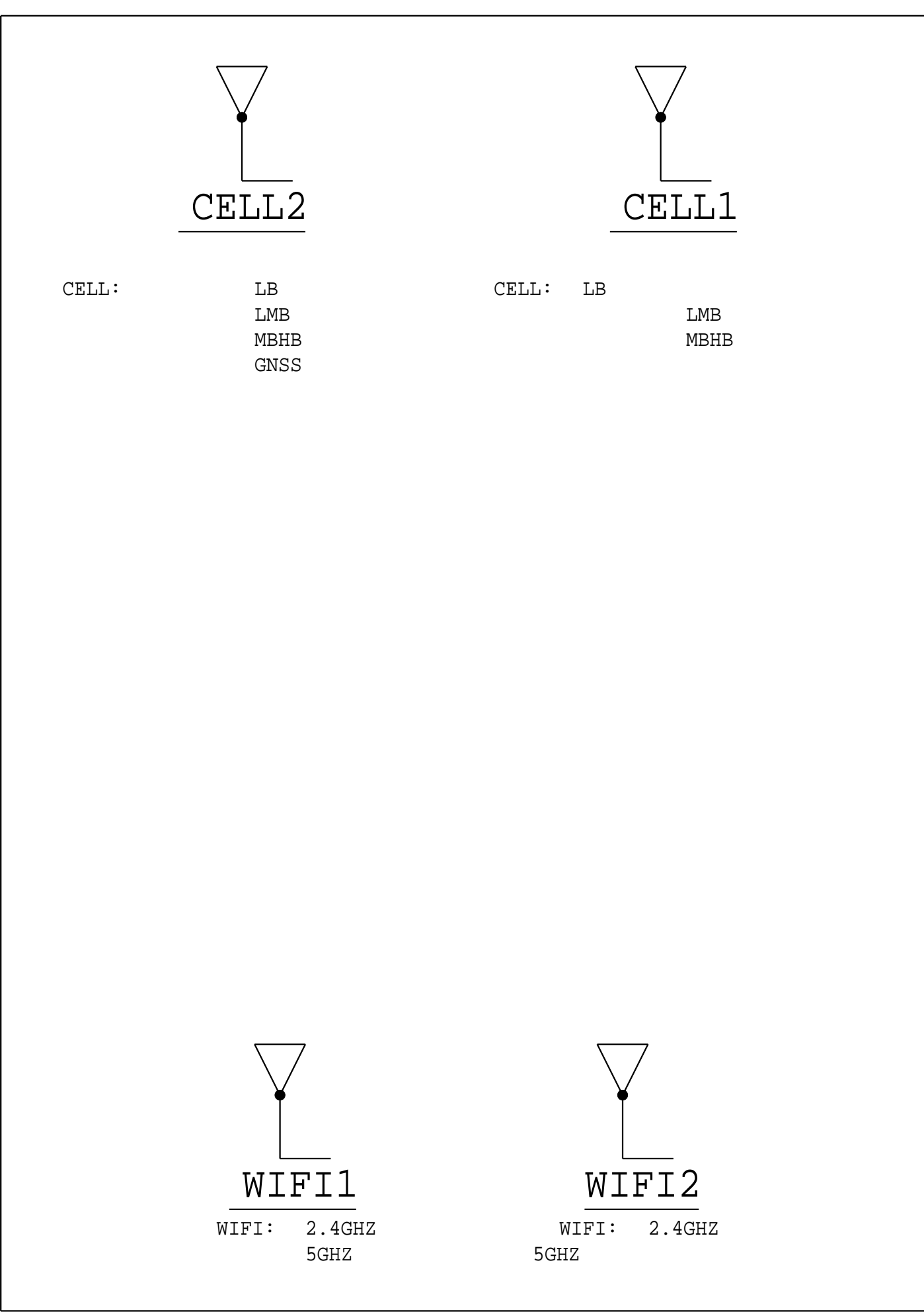
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ICE18.8 RADIO

ANTENNA BLOCK DIAGRAM



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BOM TABLES

FERRITE ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S00131	155S00341	BOM_TABLE_ALTS	FL900_K	FERR BD, 240OHM
155S00414	155S0876	BOM_TABLE_ALTS	ALL	FERR BD, 100HM
155S00200	155S00400	BOM_TABLE_ALTS	ALL	FERR BD, 150OHM
155S0030400		BOM_TABLE_ALTS	ALL	FERR BD, 150OHM

ETIC CAP ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00237	138S00167	BOM_TABLE_ALTS	C1204_K	CAP, 2.2UF
138S0080167		BOM_TABLE_ALTS	C1205_K	CAP, 2.2UF
138S00800167		BOM_TABLE_ALTS	C1206_K	CAP, 2.2UF

CAP ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00086	138S0884	BOM_TABLE_ALTS	ALL	CAP, 20UF
138S003103		BOM_TABLE_ALTS	ALL	CAP, 4.7UF
138S00800133		BOM_TABLE_ALTS	ALL	CAP, 0.47UF

EEPROM ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00013	335S0894	BOM_TABLE_ALTS	EEPROM_K	EEPROM, 8KBIT, 12C

XTAL ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S000060155		BOM_TABLE_ALTS	Y301_K	XTAL, 38.4MHZ, TXC
197S00179	197S00155	BOM_TABLE_ALTS	Y301_K	XTAL, 38.4MHZ, NDK

ROW SKU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S01345	1	IC, LB PAD, B28, SKY78170, DSBGA112	PA_LB_K	ROW
353S01301	1	IC, SKY13765, LB DSM, DSBGA20, B28	DSM_LB_K	ROW
337S00578	1	IC, ST3301M25TL9ENL0, VINYL, BGA3K4	U_SIM	ROW
138S0831	1	CAP, CER, X5R, 2.2UF, 20%, 6.3V, 0201	C10_SIM	ROW
	1	RES, MF, 1/32W, 4.7K OHM, 1%, 01005, SMD	R12_SIM	ROW
	1	RES, MF, 1/32W, 0.0 OHM, 0%, 01005, SMD	R13_SIM	ROW
117S0158	1	RES, MF, 1/32W, 100K OHM, 5%, 01005, SMD	R10_SIM	ROW

NA SKU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
	1	IC, LB PAD, B71, SKY78203, DSBGA112	PA_LB_K	NA
353S01472	1	IC, SKY13785, LB DSM, DSBGA20, B71	DSM_LB_K	NA
337S00578	1	IC, ST3301M25TL9ENL0, VINYL, BGA3K4	U_SIM	NA
138S0831	1	CAP, CER, X5R, 2.2UF, 20%, 6.3V, 0201	C10_SIM	NA
118S0636	1	RES, MF, 1/32W, 4.7K OHM, 1%, 01005, SMD	R12_SIM	NA
117S0161	1	RES, MF, 1/32W, 0.0 OHM, 0%, 01005, SMD	R13_SIM	NA
	1	RES, MF, 1/32W, 100K OHM, 5%, 01005, SMD	R10_SIM	NA

CHINA SKU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S01345	1	IC, LB PAD, B28, SKY78170, DSBGA112	PA_LB_K	CHINA
353S01301	1	IC, SKY13765, LB DSM, DSBGA20, B28	DSM_LB_K	CHINA
	1	RES, MF, 1/32W, 100K OHM, 5%, 01005, SMD	R10_SIM	CHINA

HWID

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
118S0710	1	RES, 1%, 22.1K OHM, 1/32W, 01005	R311_K	ROW
117S0191	1	RES, 5%, 18.0K OHM, 1/32W, 01005	R311_K	NA

UPDATED FOR EVT BUILD

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SYNC_DATE=10/01/2018

PAGE TITLE

BOM TABLES

8

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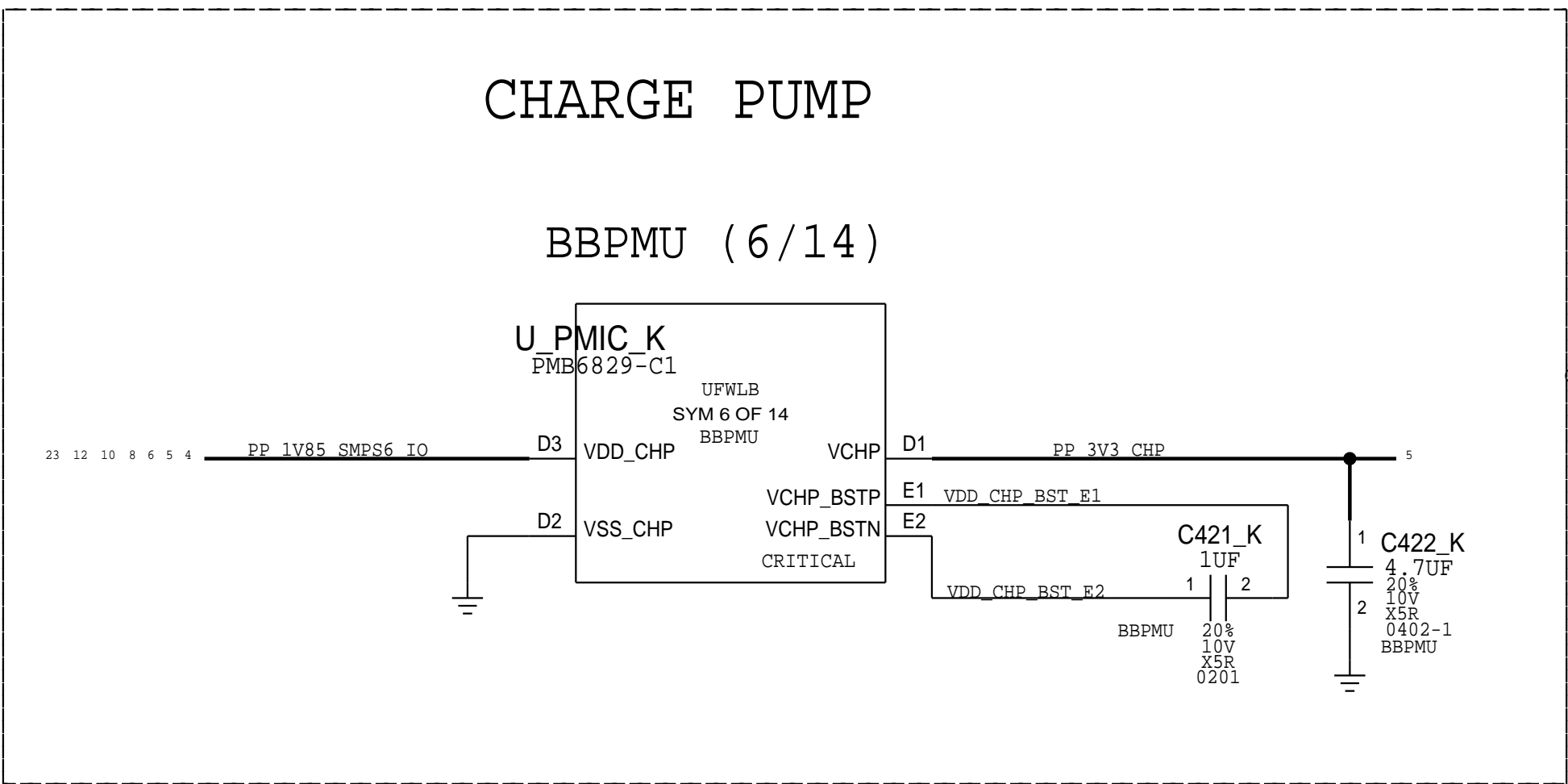
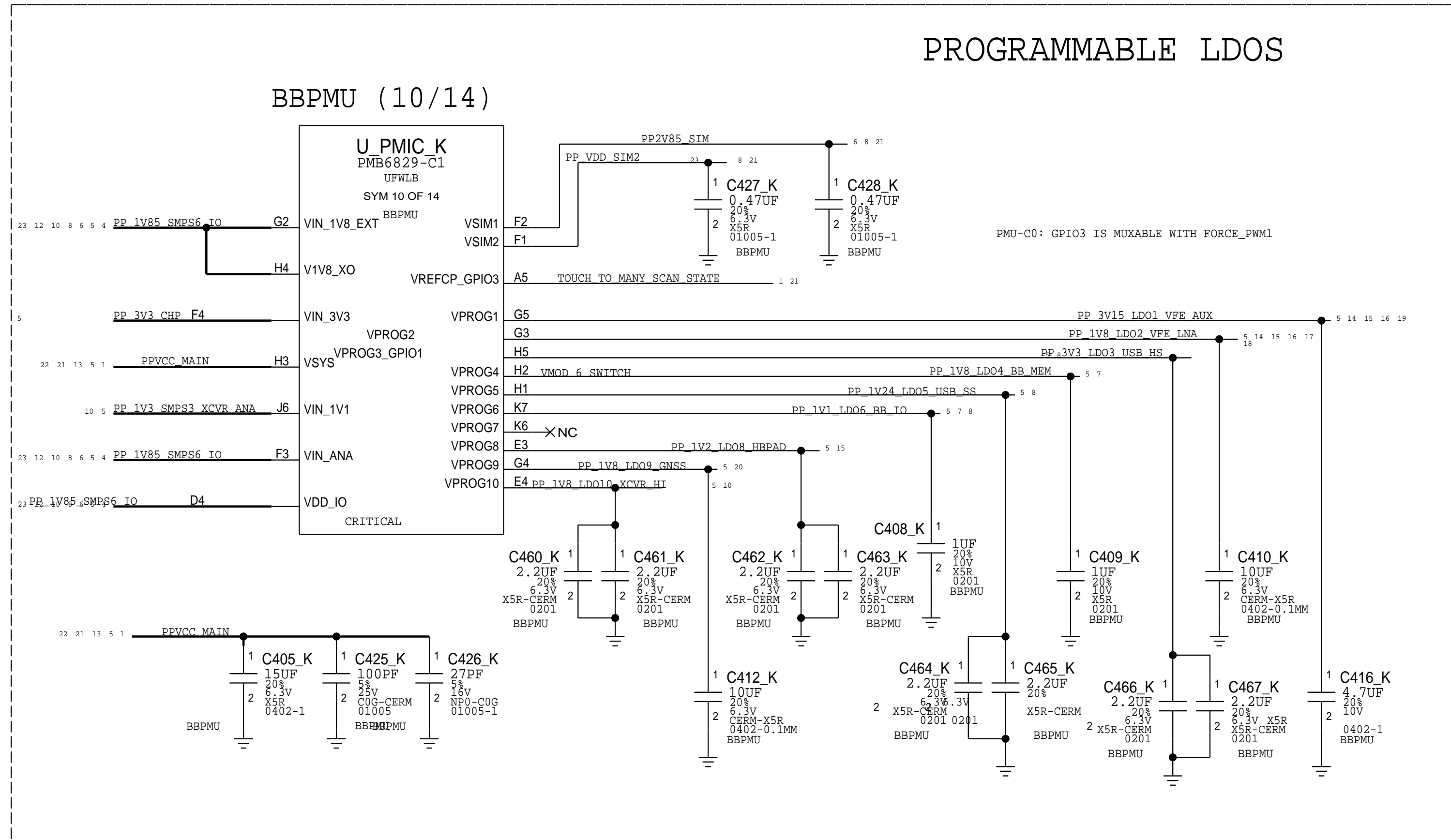
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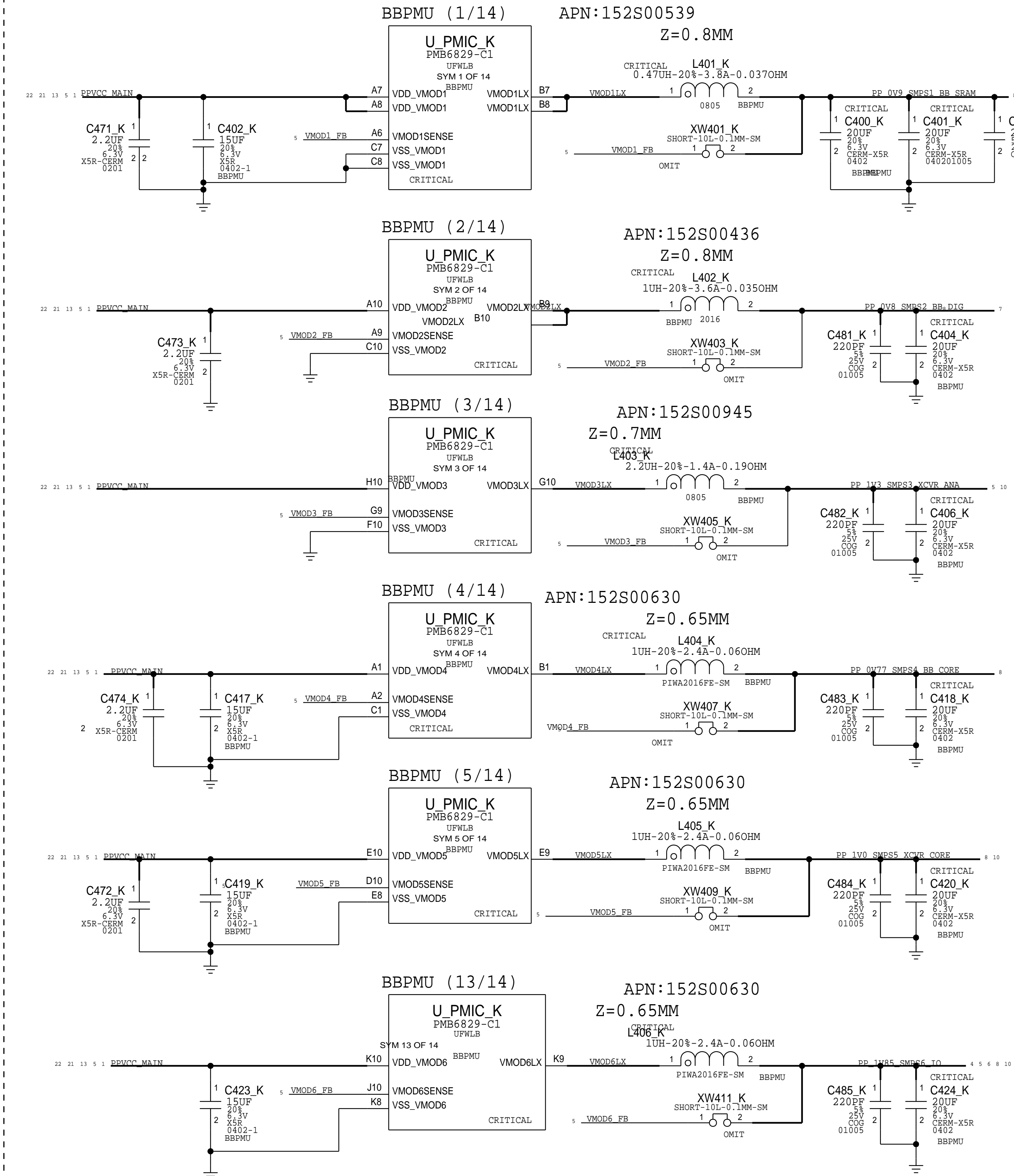
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BBPMU: RAILS



SWITCHERS

SMPS1/2/4 SHARED VDD_MAIN INTERNALLY
SMPS3/5/6 SHARED VDD_MAIN INTERNALLY



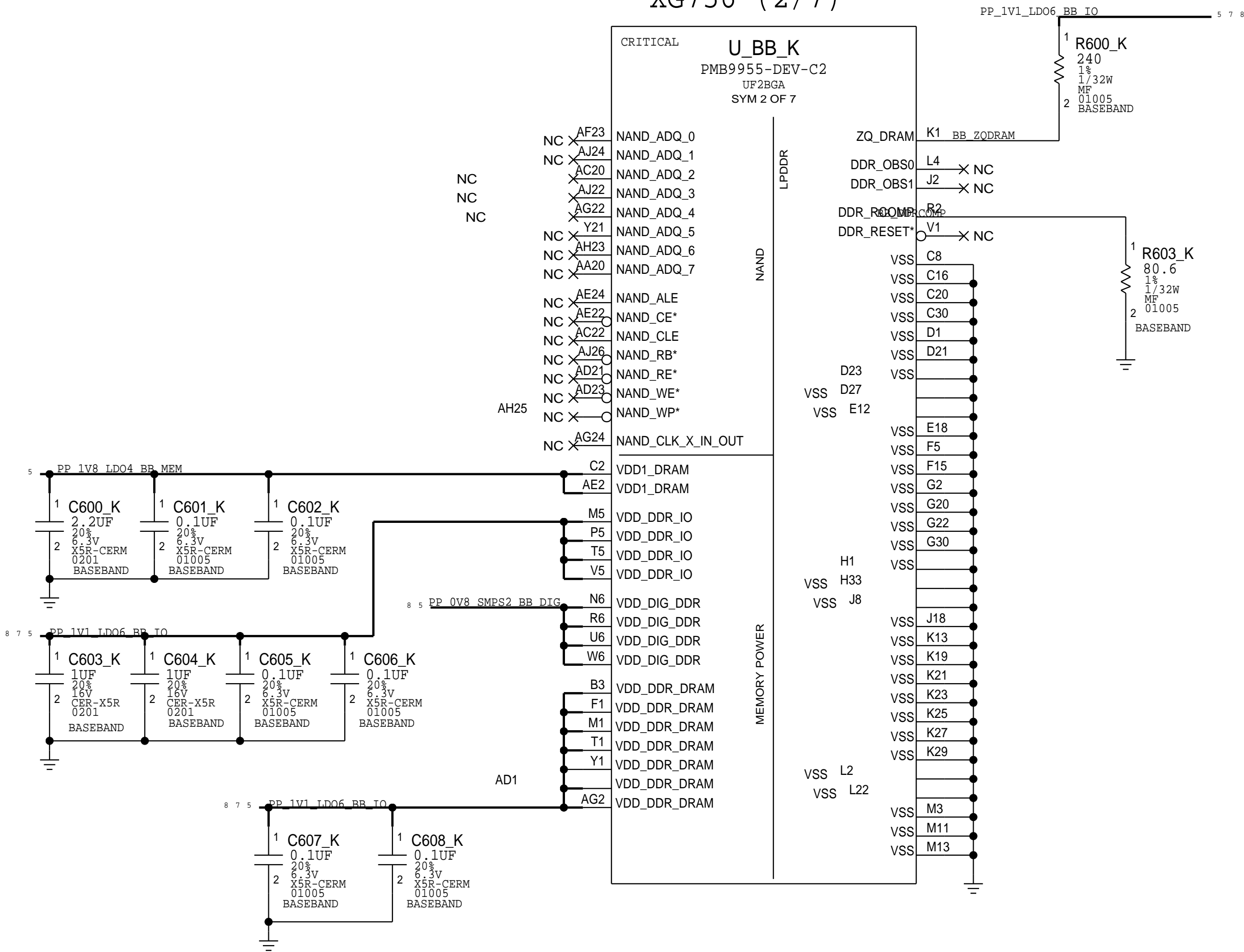
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PAGE TITLE BBPMU: RAILS

BB: DDR PWR & JTAG

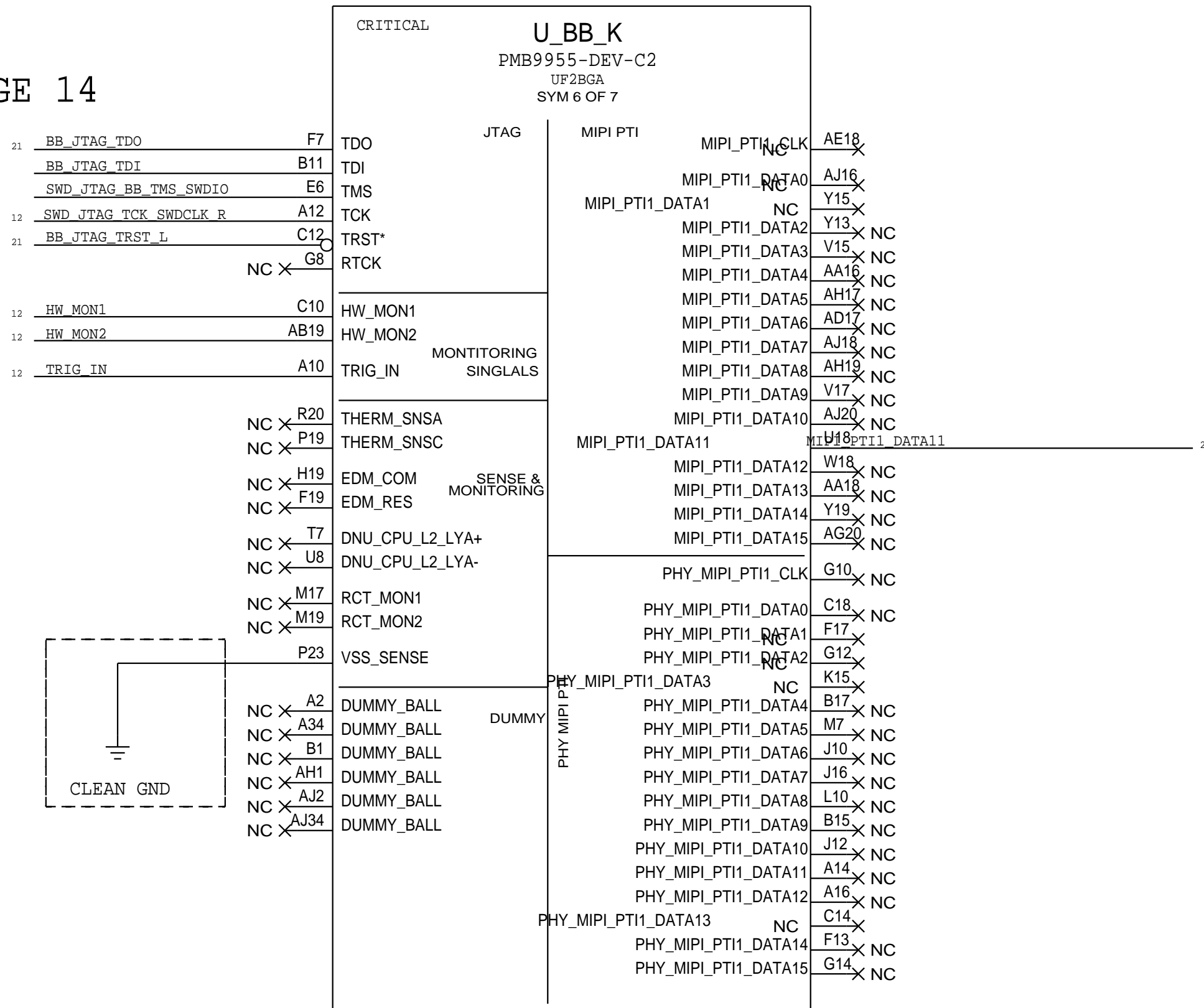
HOOKS FOR DDR4 TESTING/CAL

XG756 (2/7)



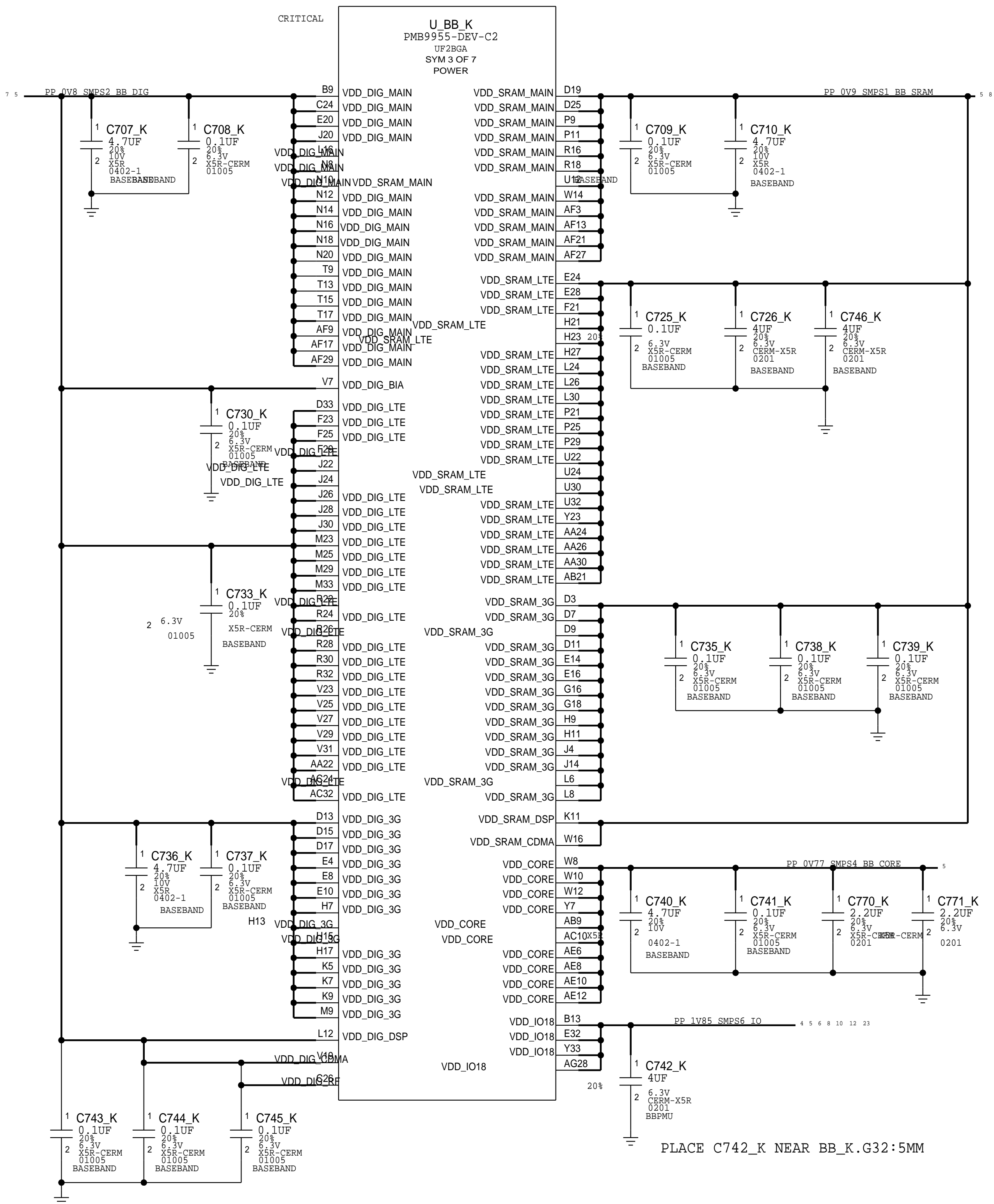
XG756 (6/7)

SWD, SEE PAGE 14



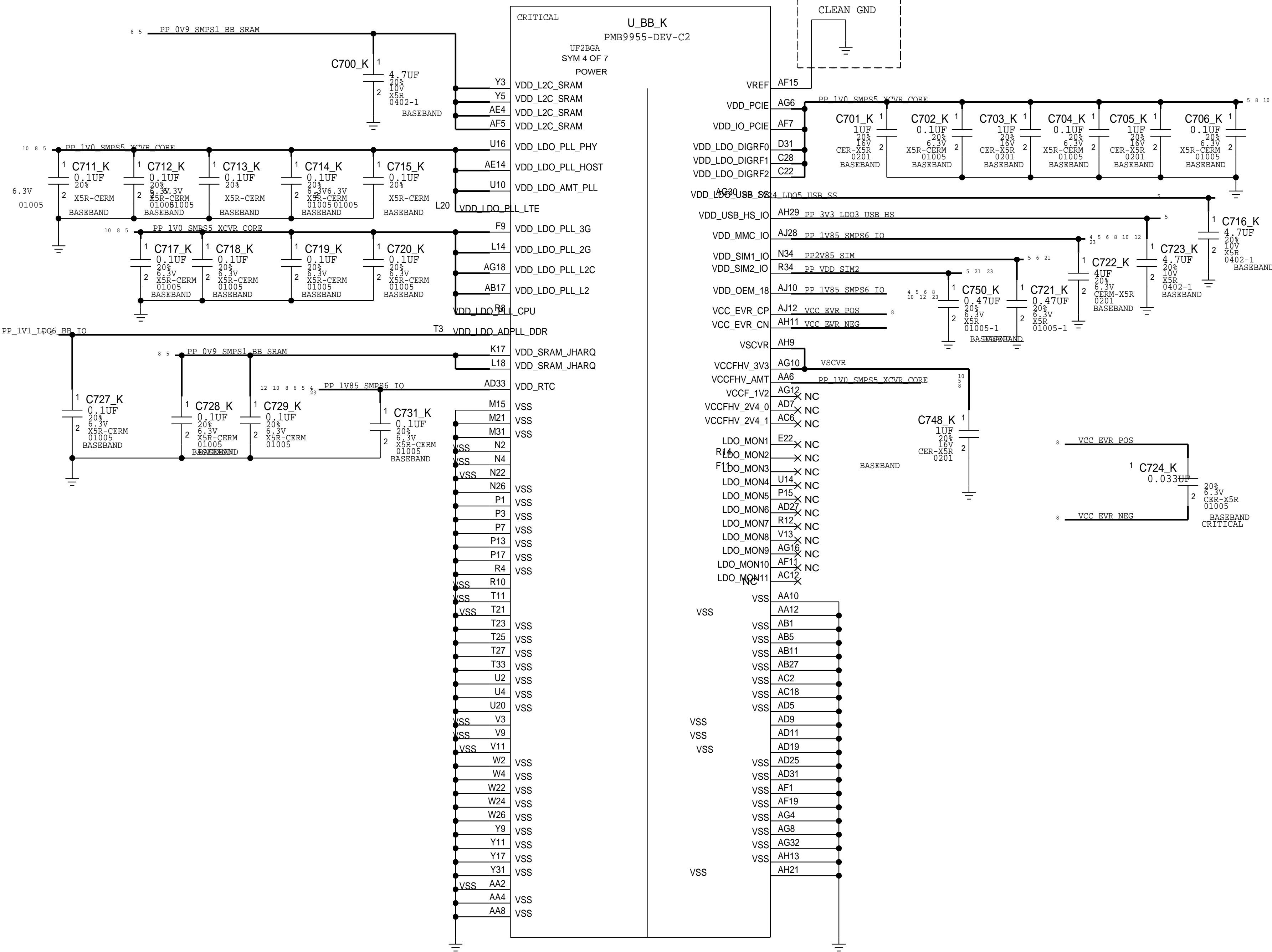
BB: DIGITAL PWR

XG756 (3/7)



PLACE C742_K NEAR BB_K.G32:5MM

XG756 (4/7)

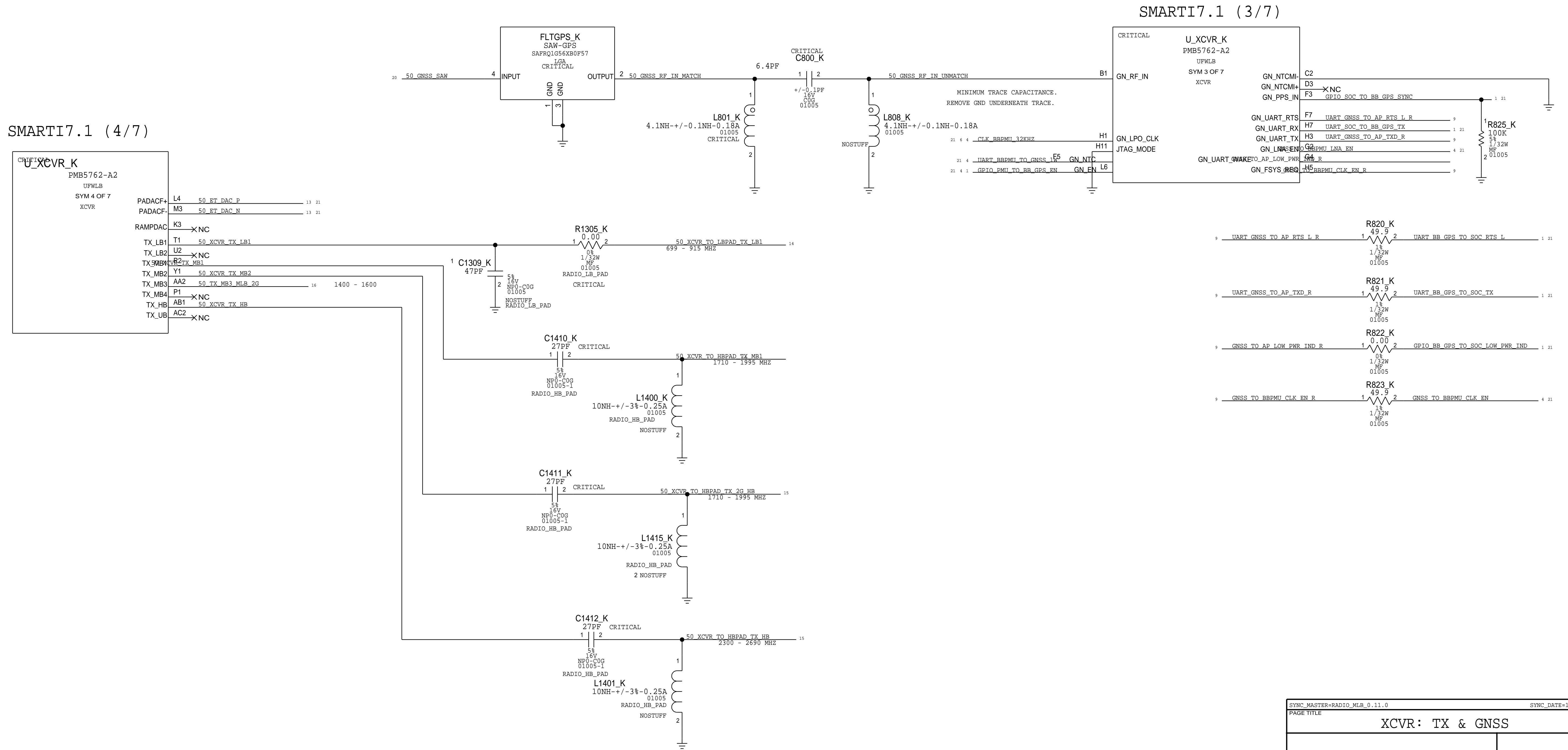


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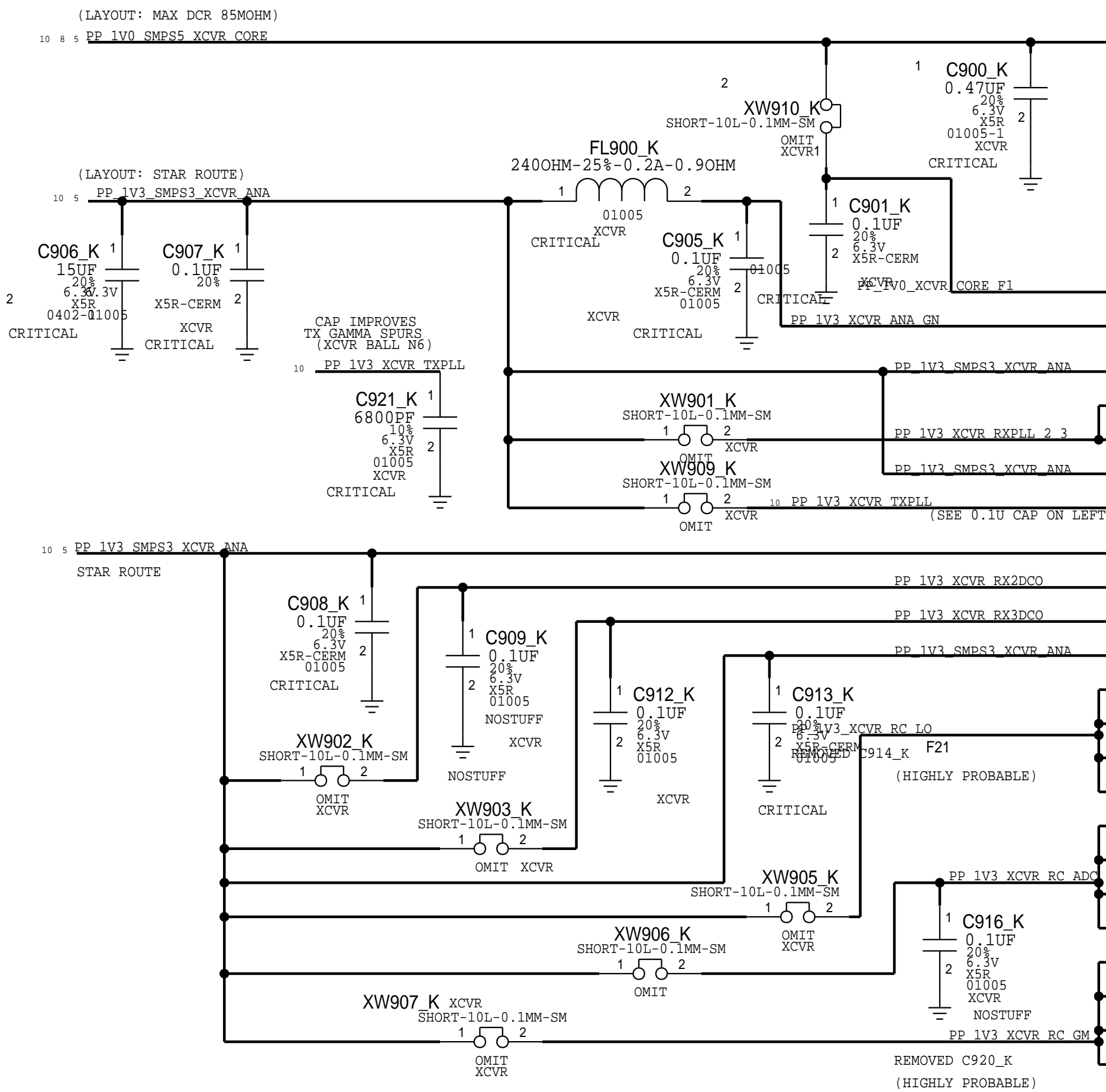
BB: DIGITAL PWR

XCVR : TRANSMIT & GNSS

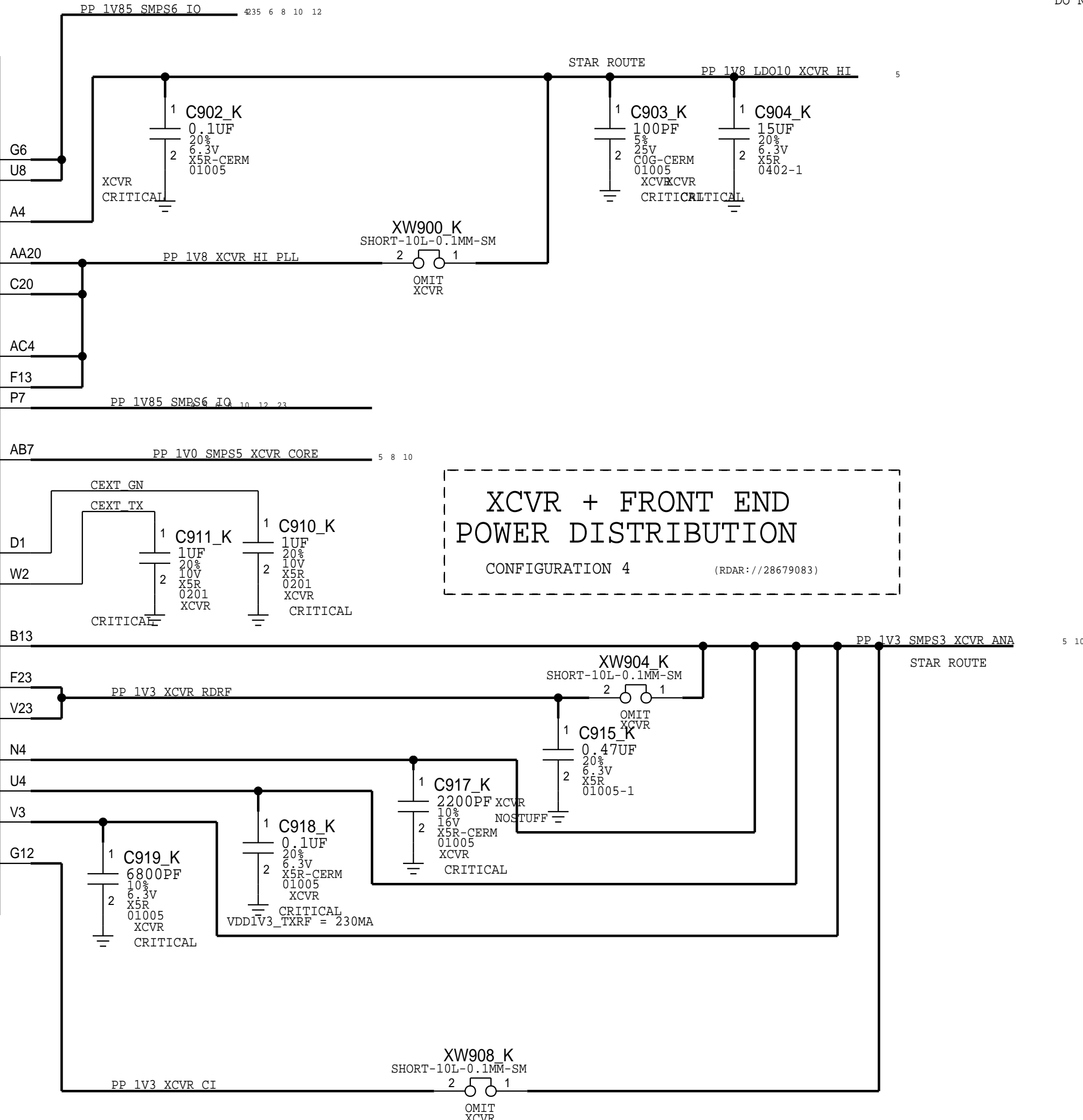
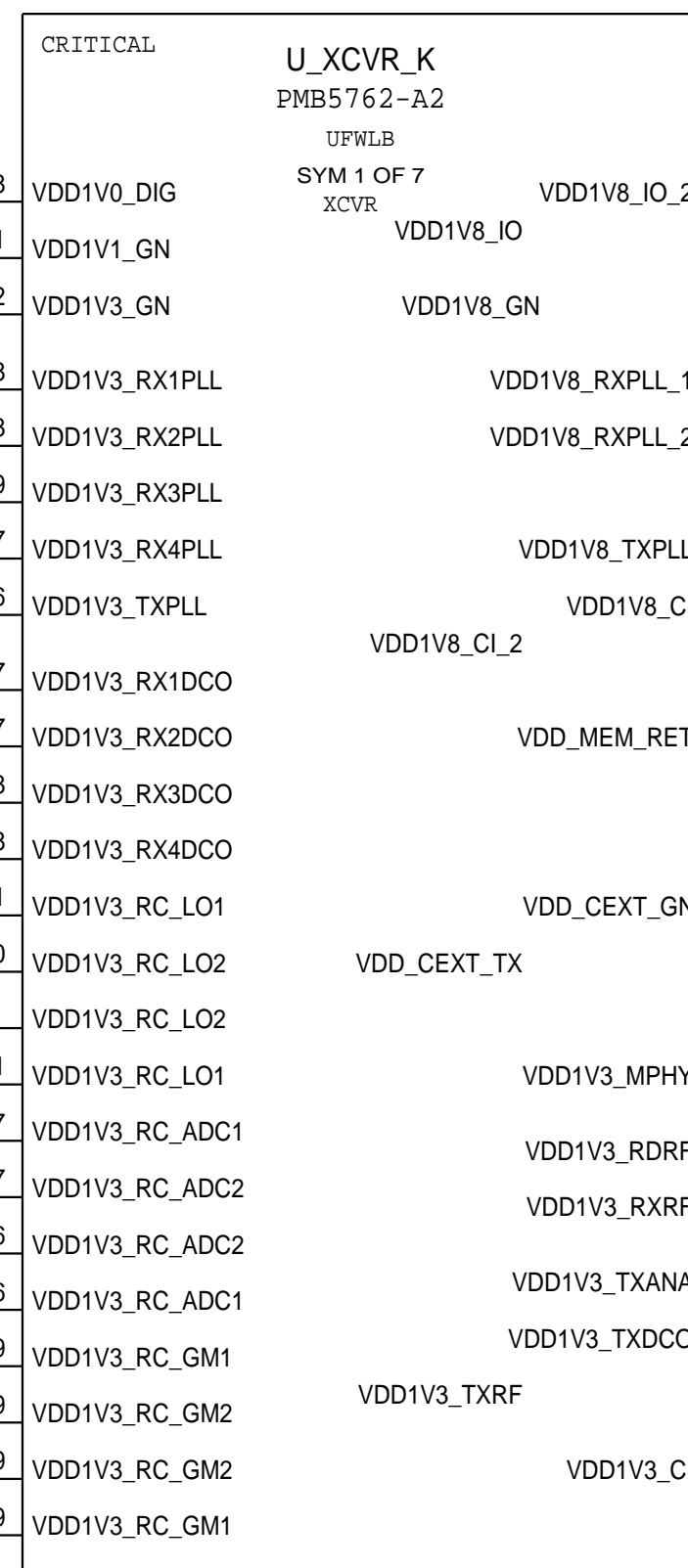


XCVR: INTERFACE & PWR

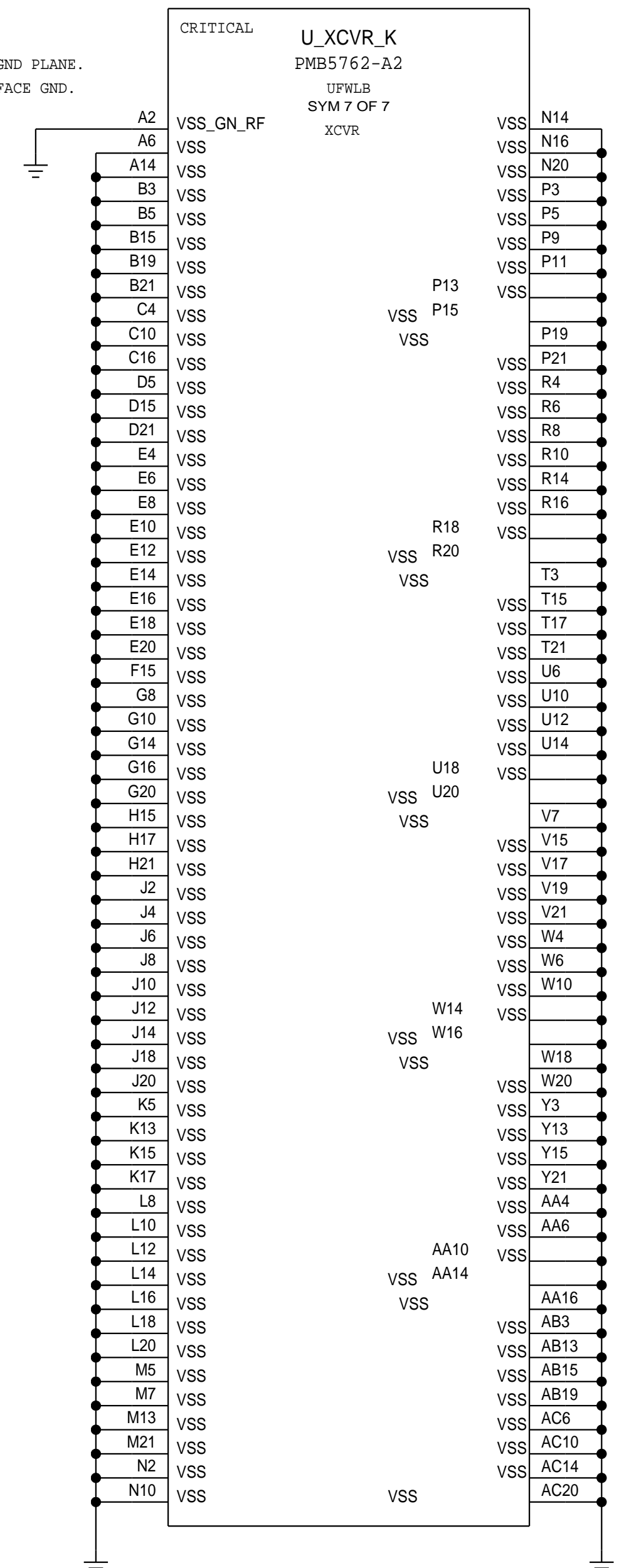
SMARTI7.1 (7/7)



SMARTI7.1 (1/7)

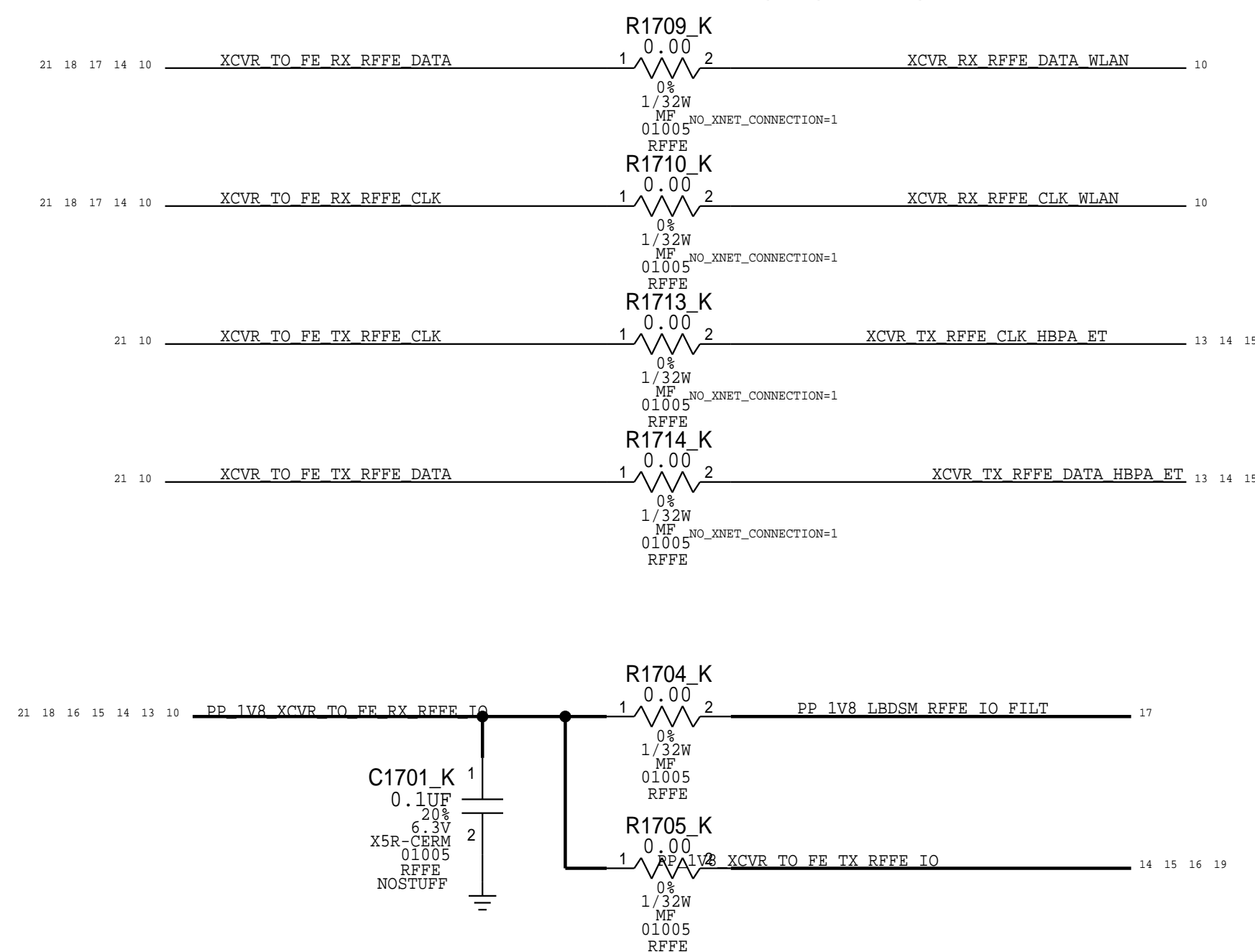


TIE A2 TO SYSTEM GND PLANE.
DO NOT TIE TO SURFACE GND.

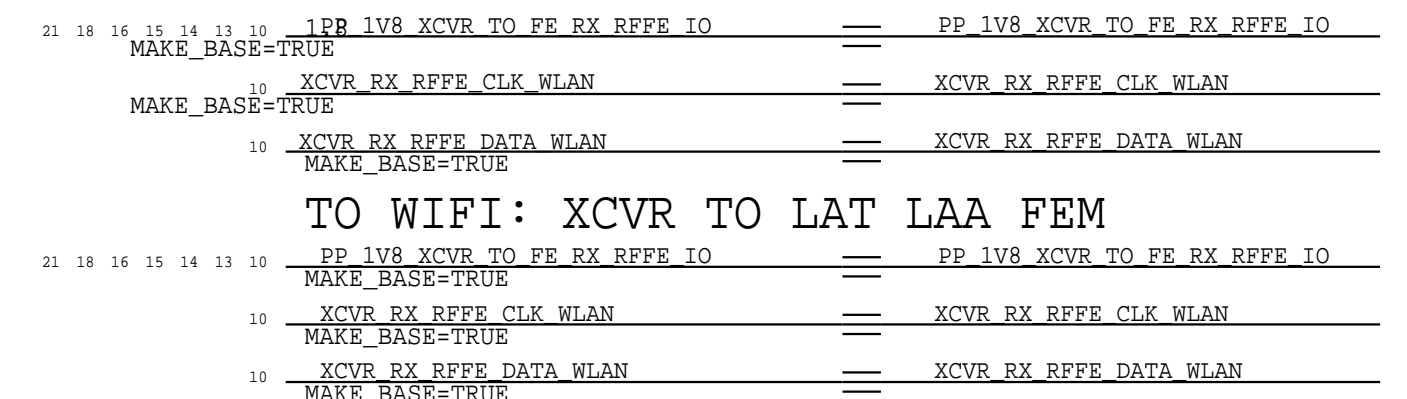


SMARTI7.1 (2/7)

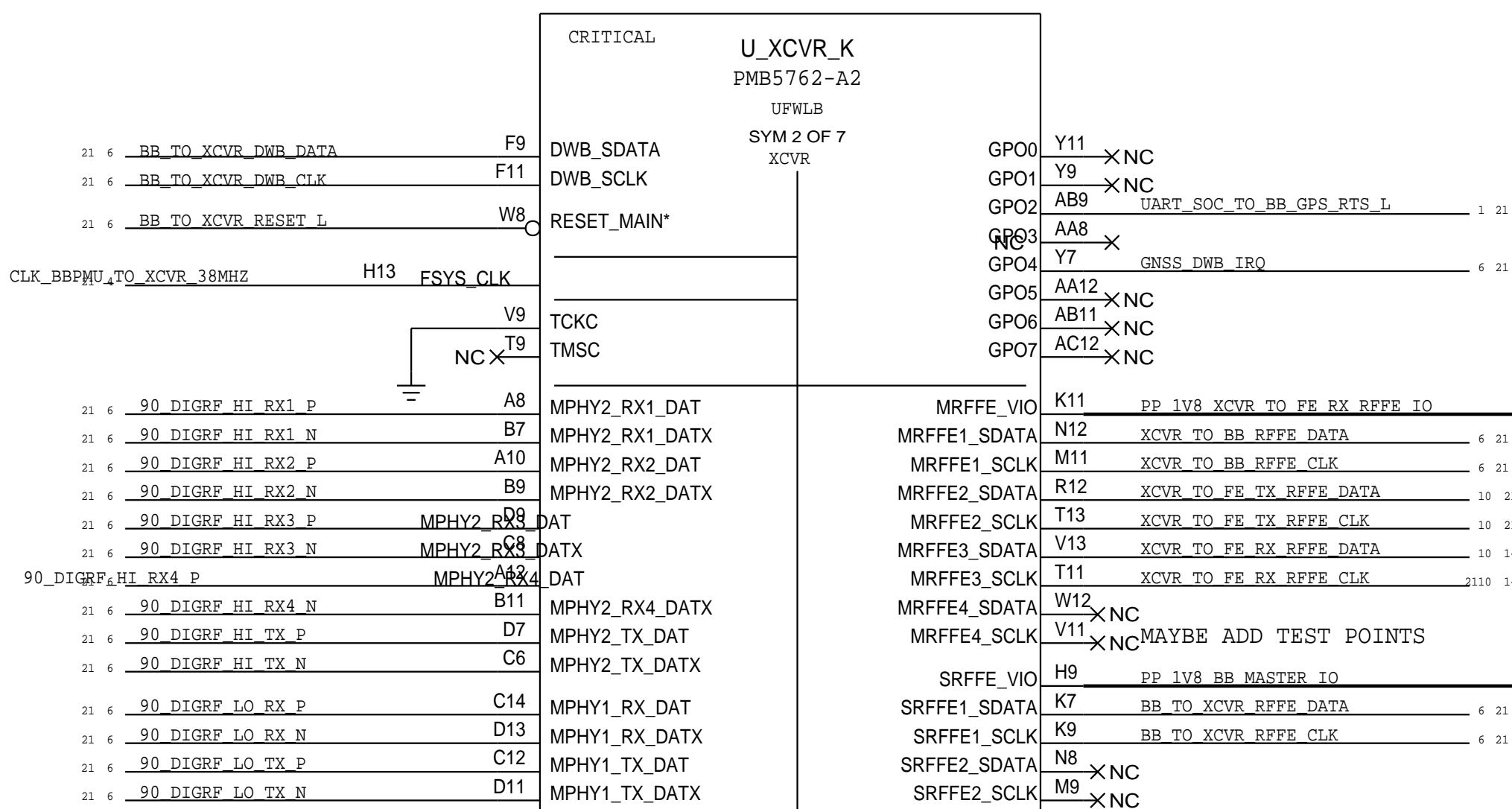
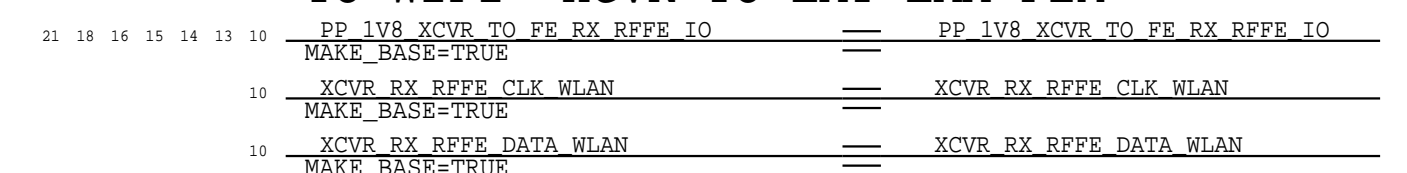
RFFE XCVR DAMPING RESISTORS



TO WIFI: XCVR TO UAT LAA FEM



TO WIFI: XCVR TO LAT LAA FEM



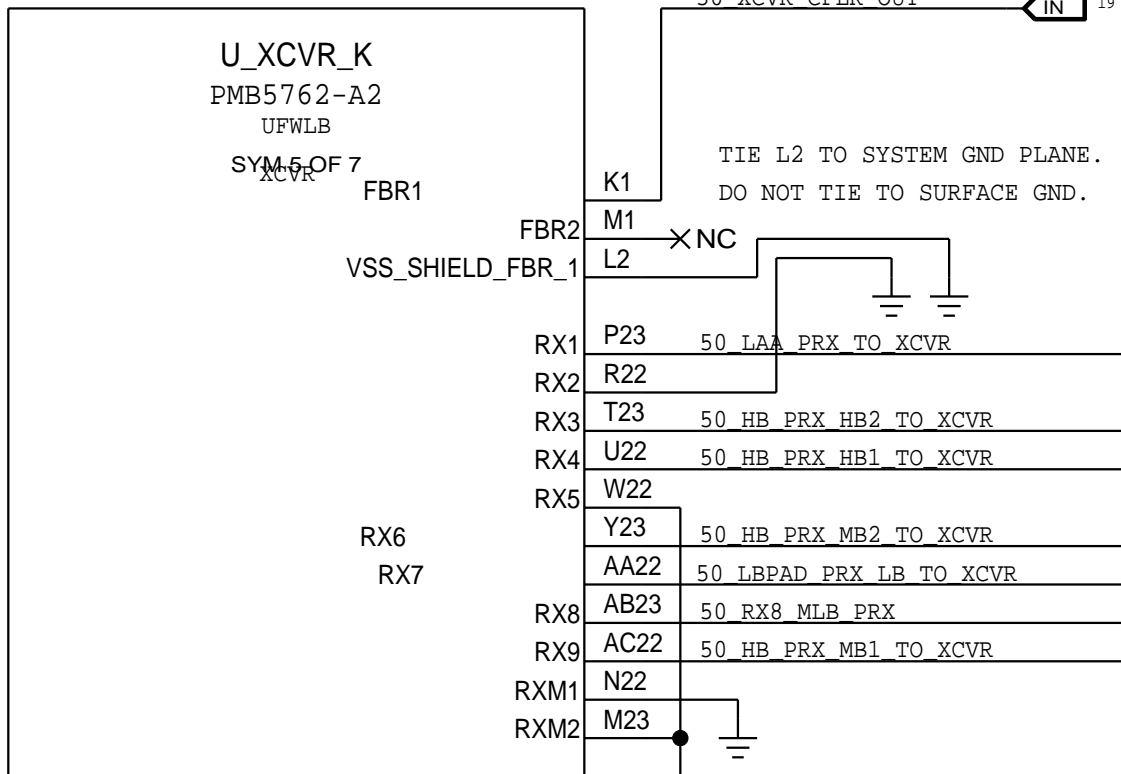
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST

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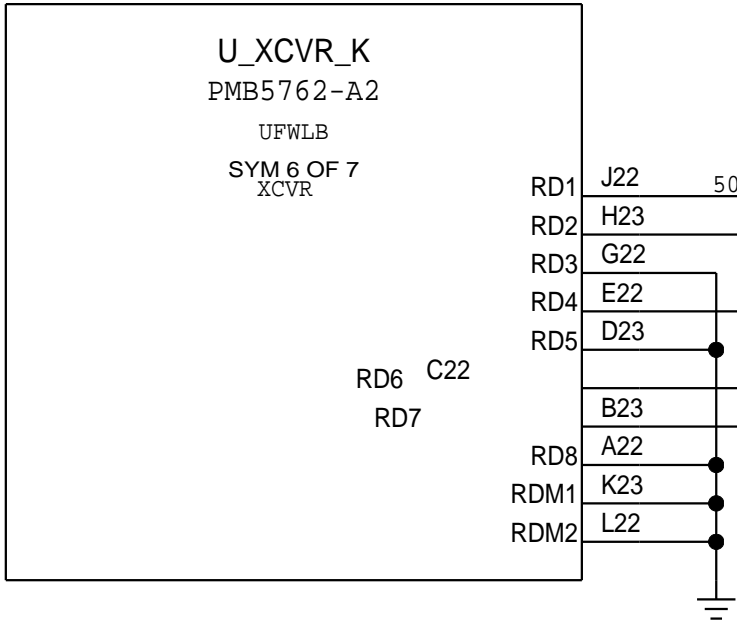
XCVR: INTERFACE & PWR

XCVR: PRIMARY/DIVERSITY RX

SMARTI7.1 PRX (5/7)



SMARTI7.1 DRX (6/7)



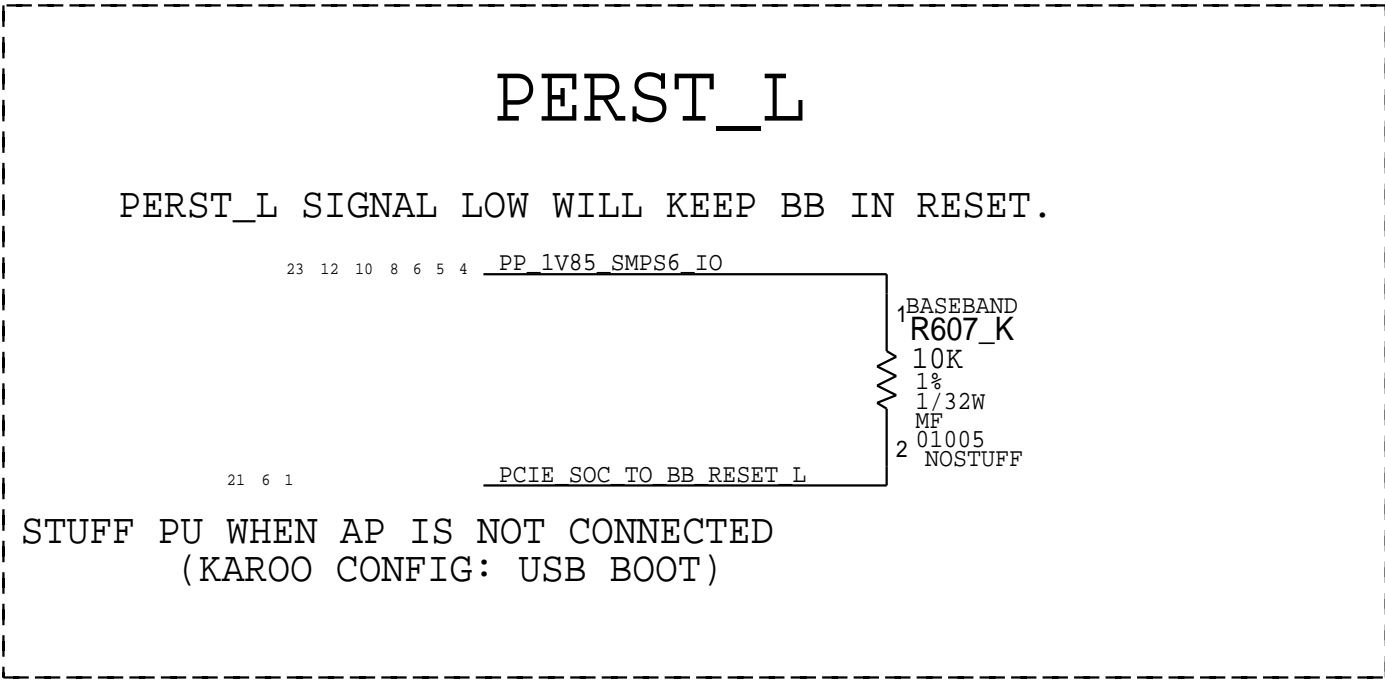
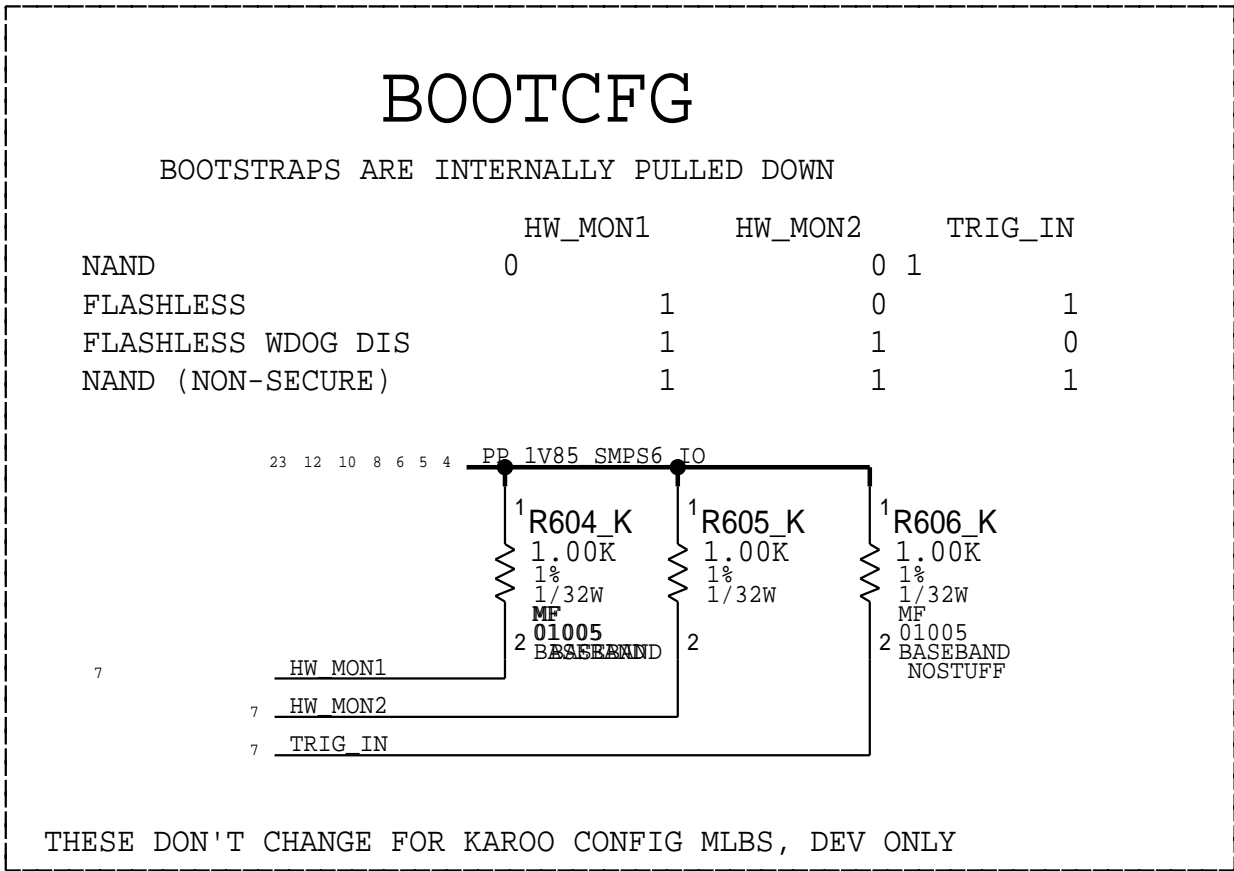
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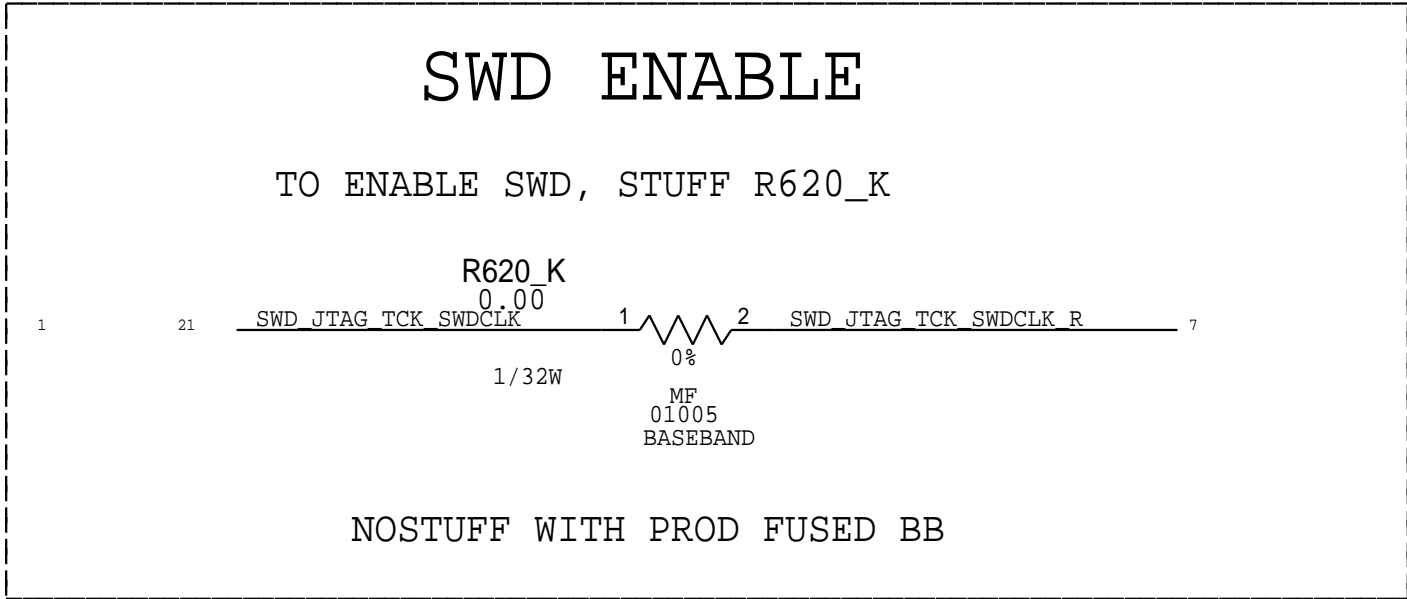
XCVR: PRX DRX

HW CONFIG OPTIONS

BOOT

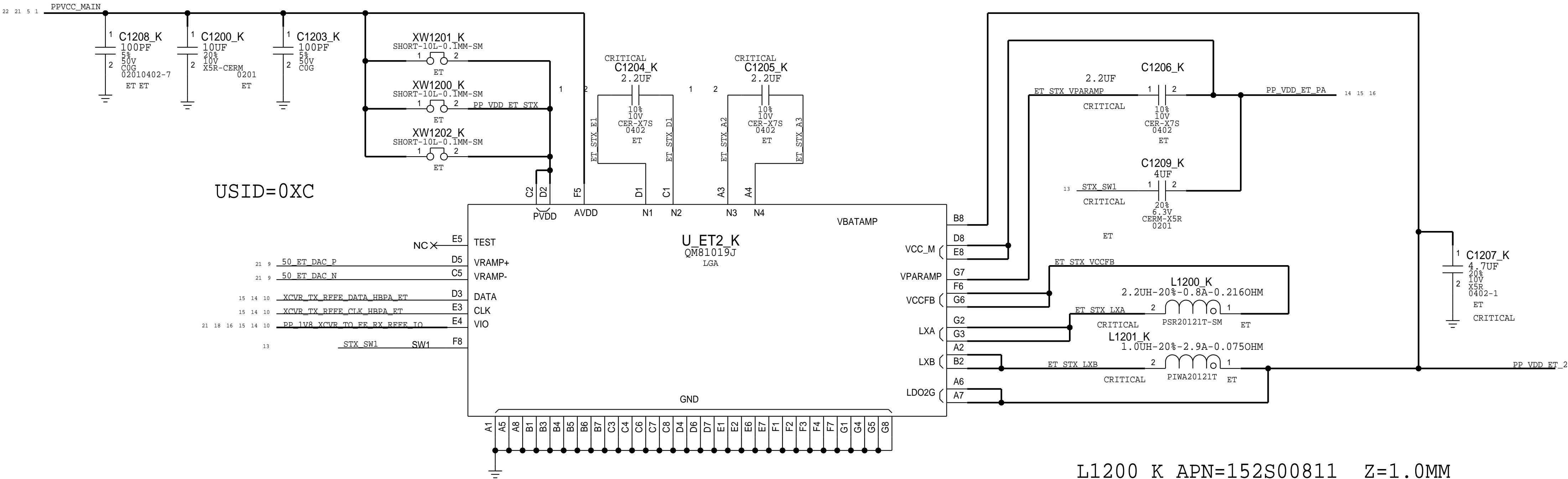


SWD



ET MODULATOR

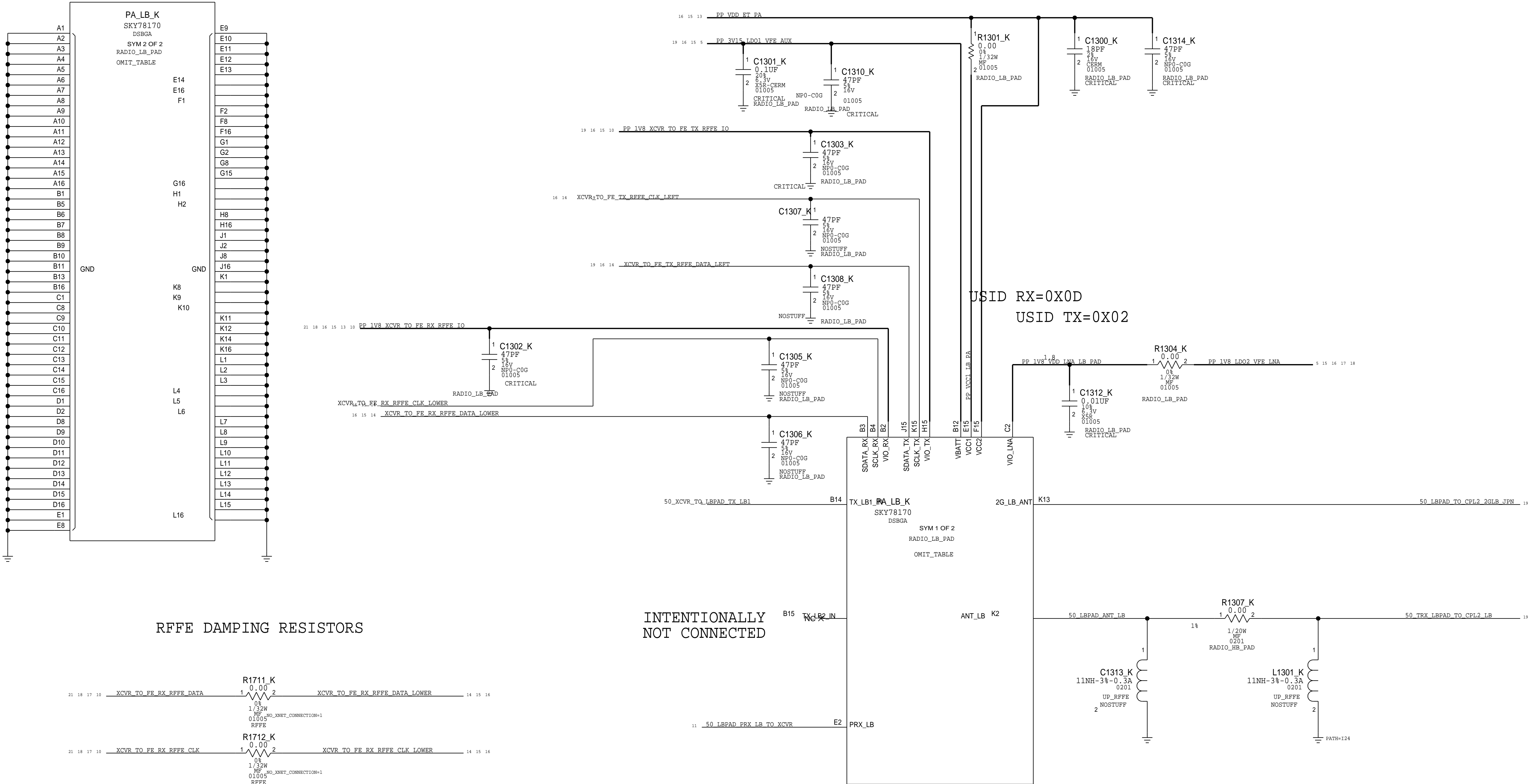
ALPES STX E1.0.1 MODULE



L1200_K APN=152S00811 Z=1.0MM
L1201_K APN=152S00814 Z=1.0MM

C1204_K, C1205_K, C1206_K: KYOCERA APN=138S00167
C1204_K, C1205_K, C1206_K ALTERNATE: MURATA APN=138S00237

LB SPAD



RFFE DAMPING RESISTORS

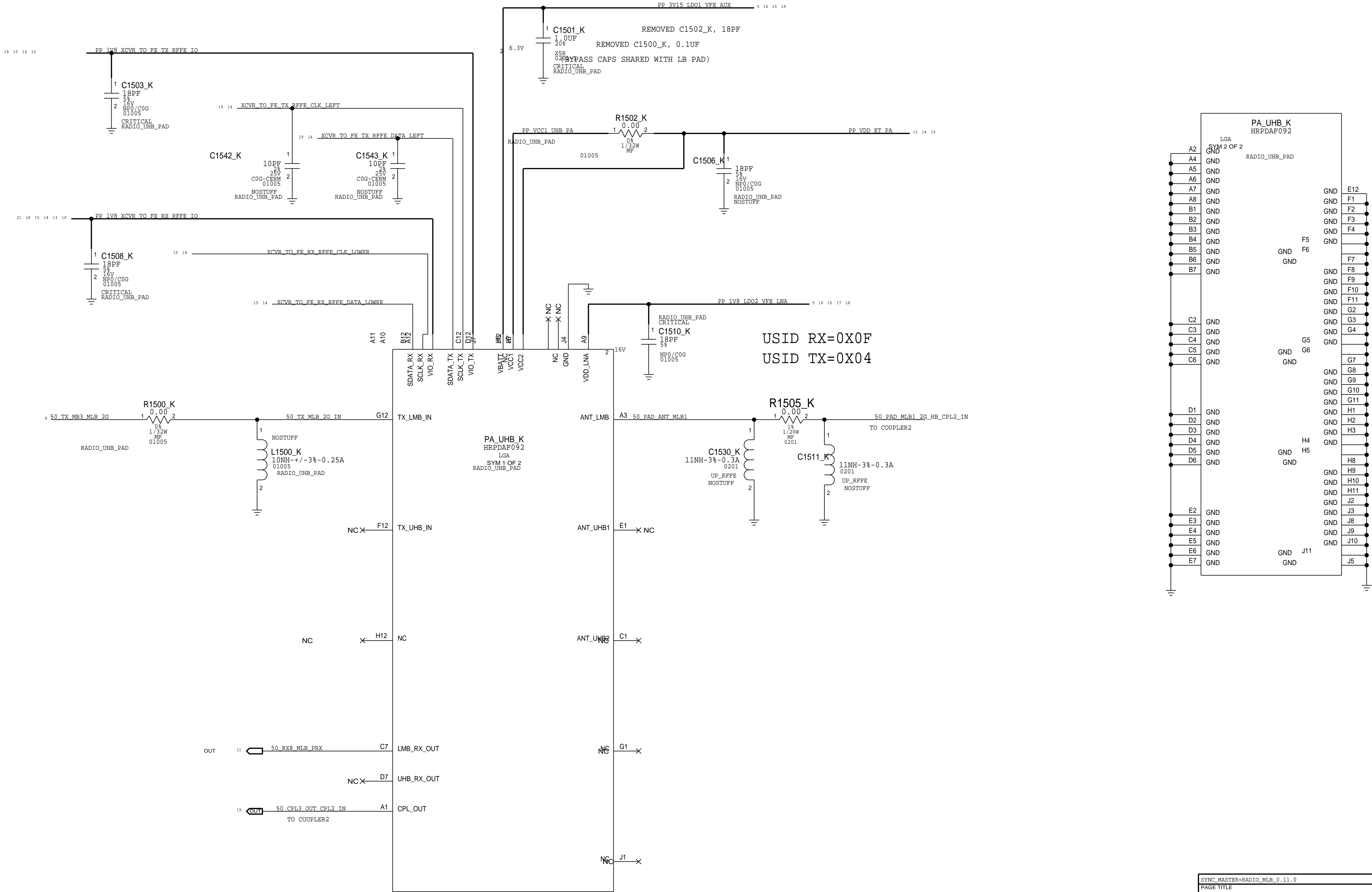
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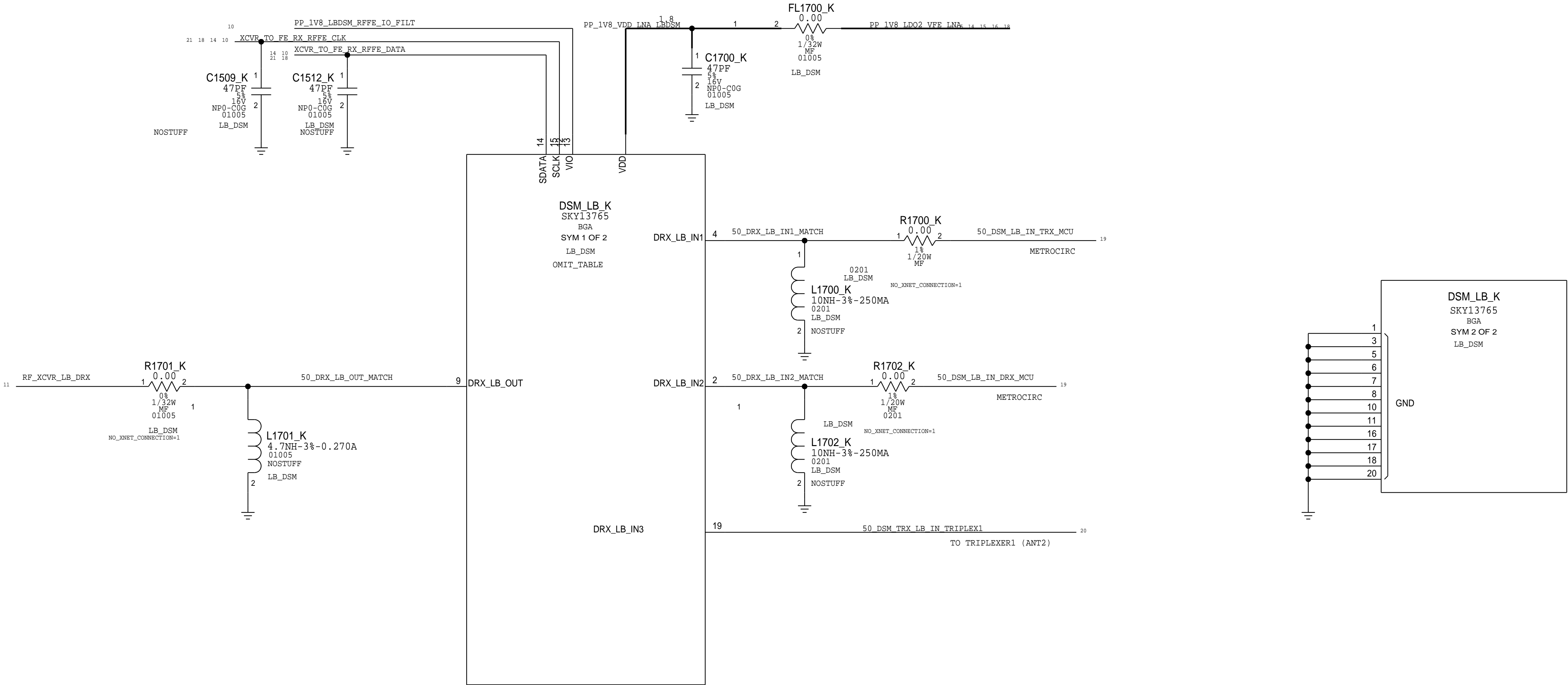
LB SPAD

UHB LMB SPAD



LB DIVERSITY RECEIVE LNA

USID RX=0X09



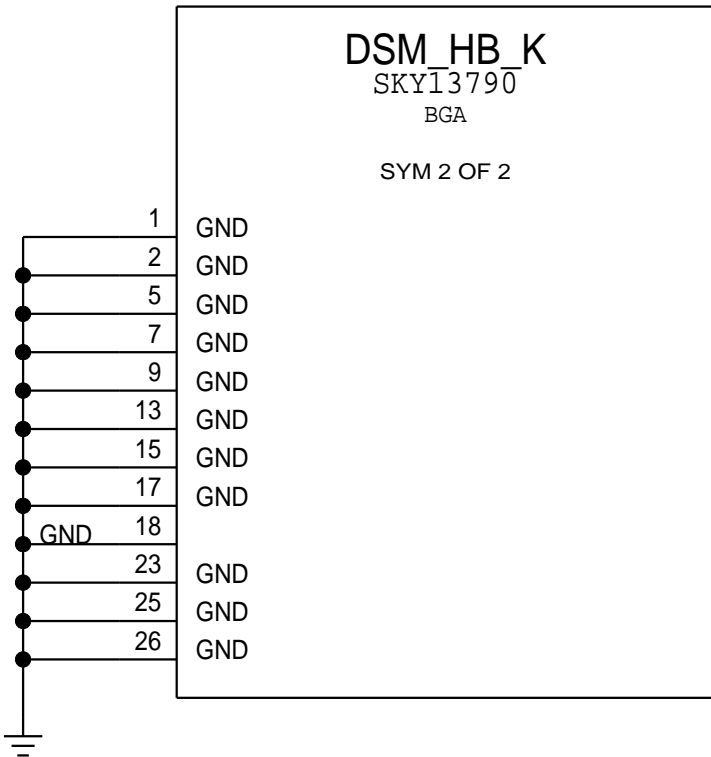
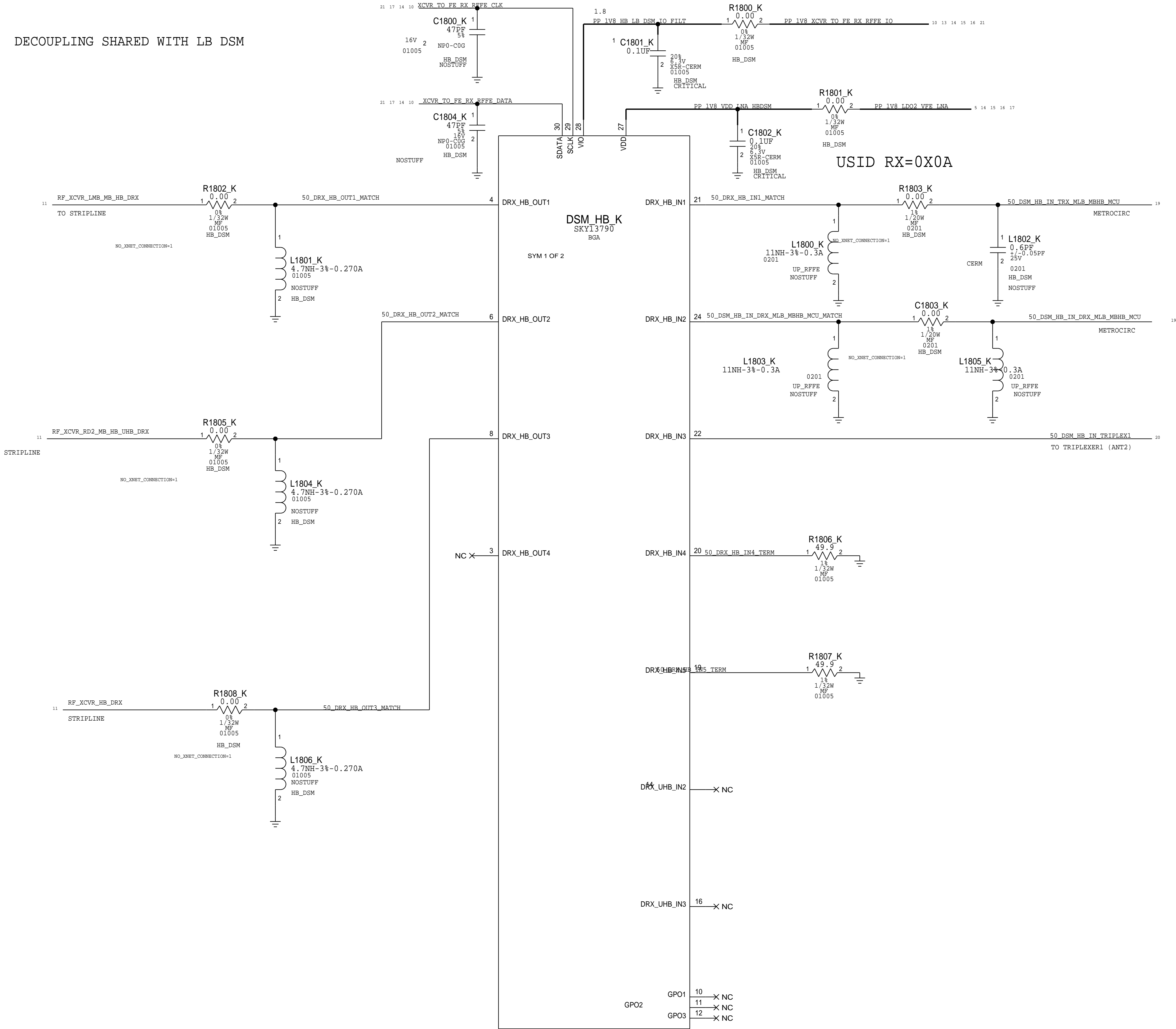
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LB DIVERSITY RECEIVE LNA

HB DIVERSITY RECEIVE LNA

DECOUPLING SHARED WITH LB DSM



SYNC_MASTER=RADIO_MLB_0.11.0 SYNC_DATE=10/01/2018

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HB DIVERSITY RECEIVE LNA

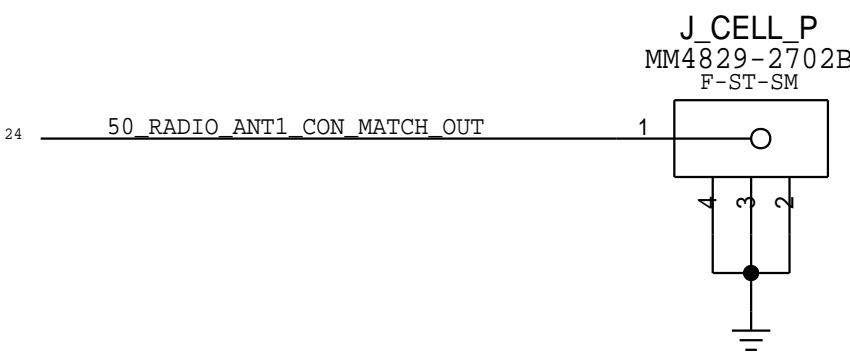
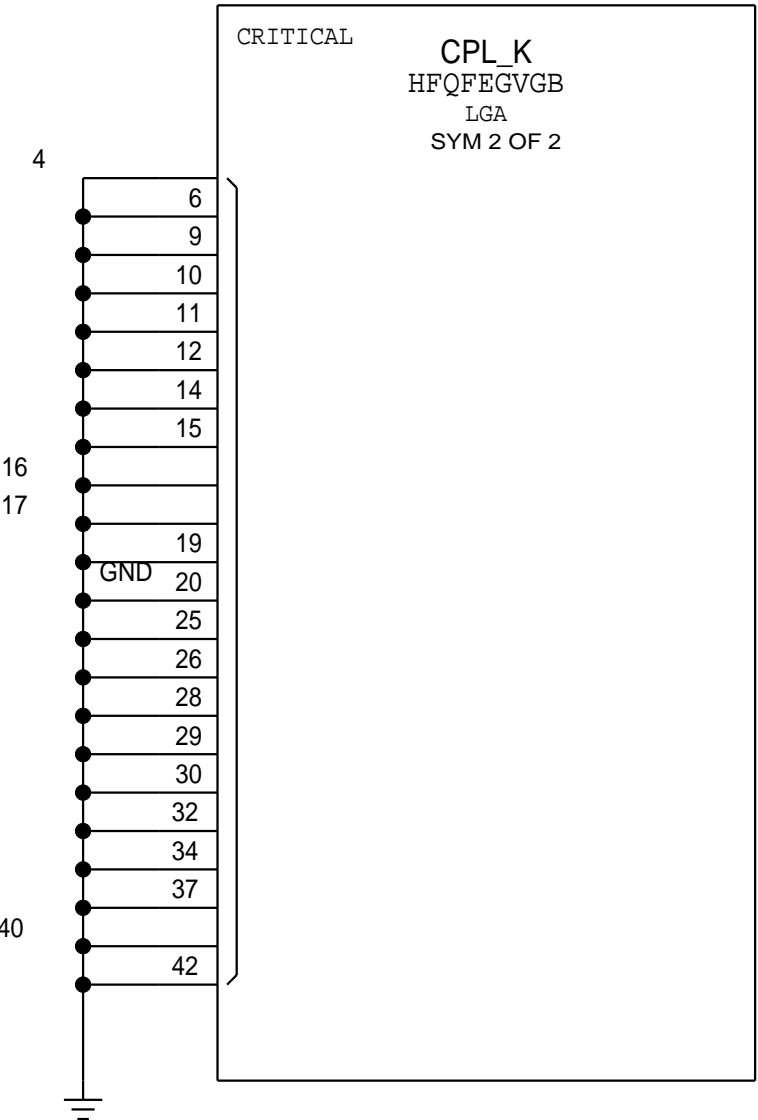
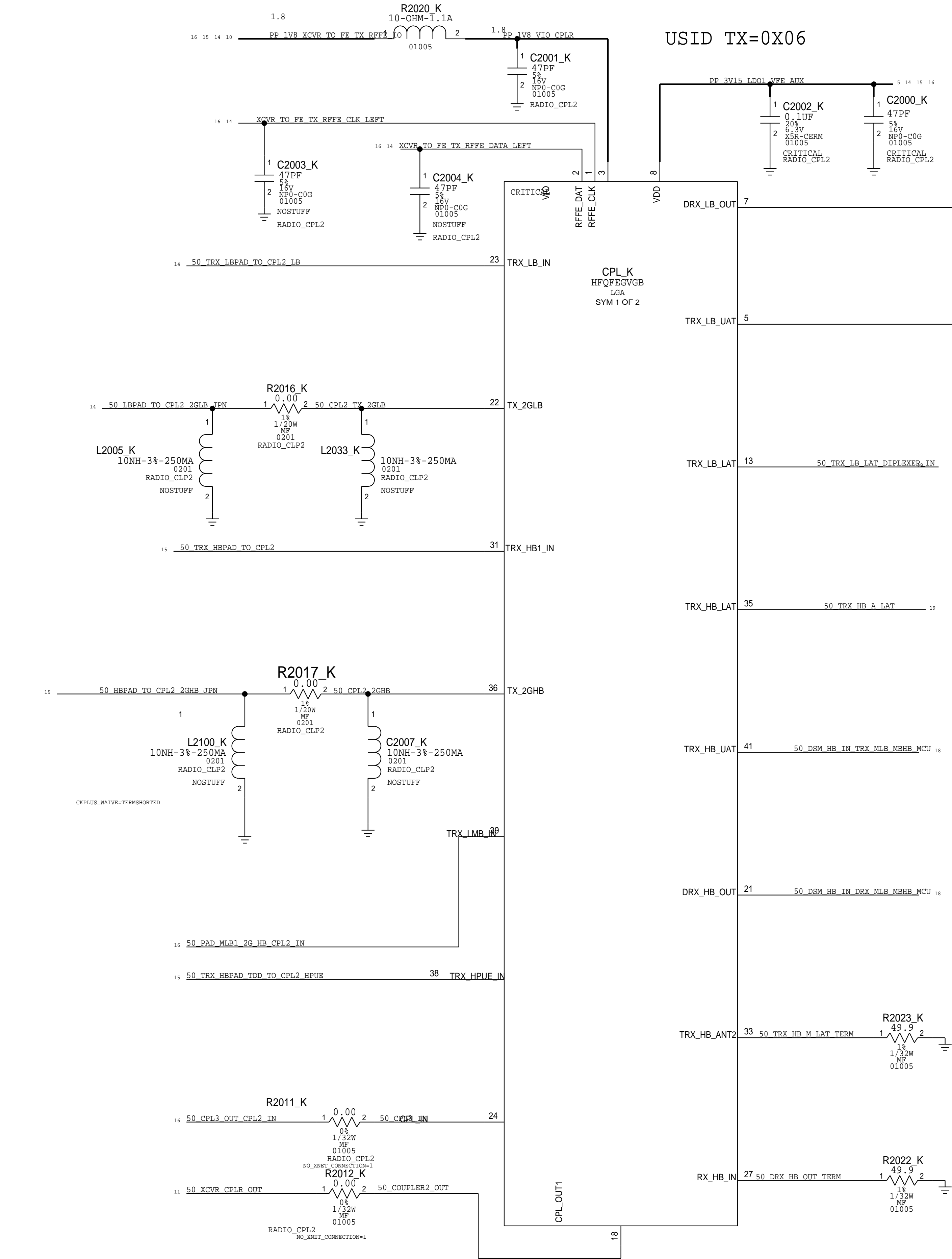
LOWER ANTENNA AND COUPLER

USID TX=0X06

PRIMARY ANT

LB-MHB DIPLEXER1

(ANT1)

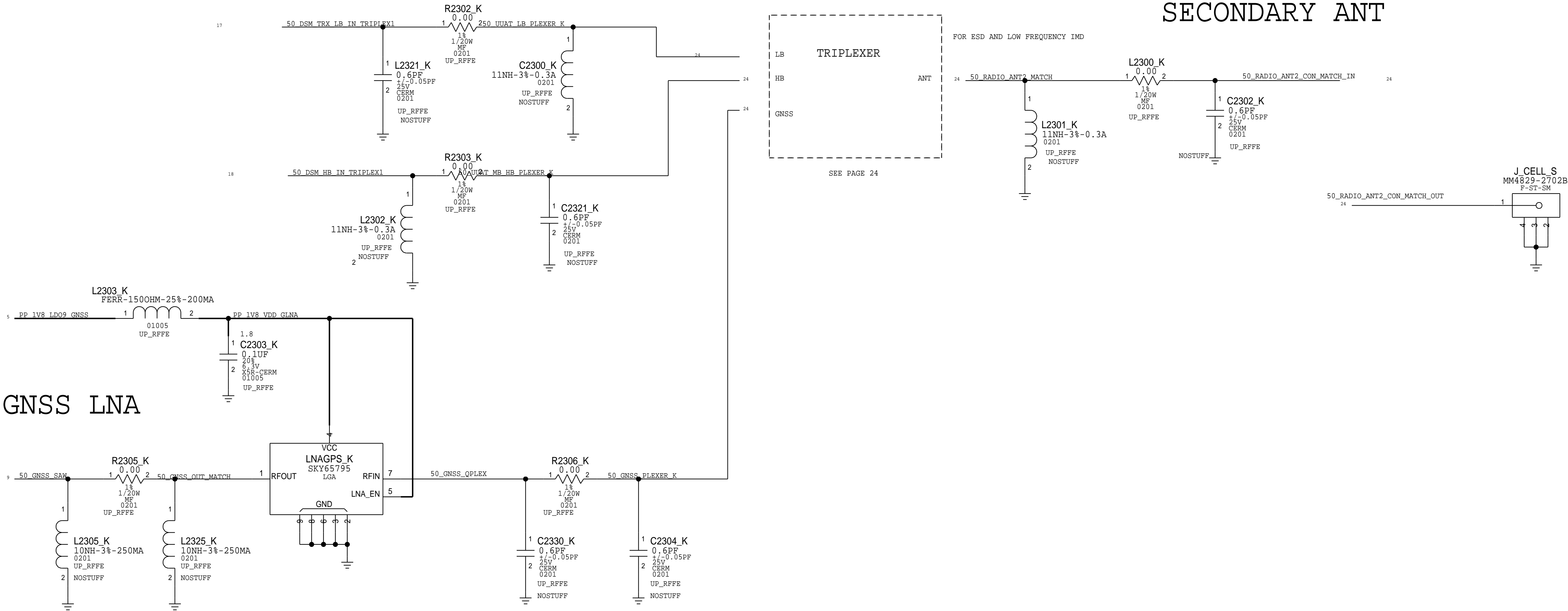


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PAGE TITLE
LOWER ANTENNA & COUPLER

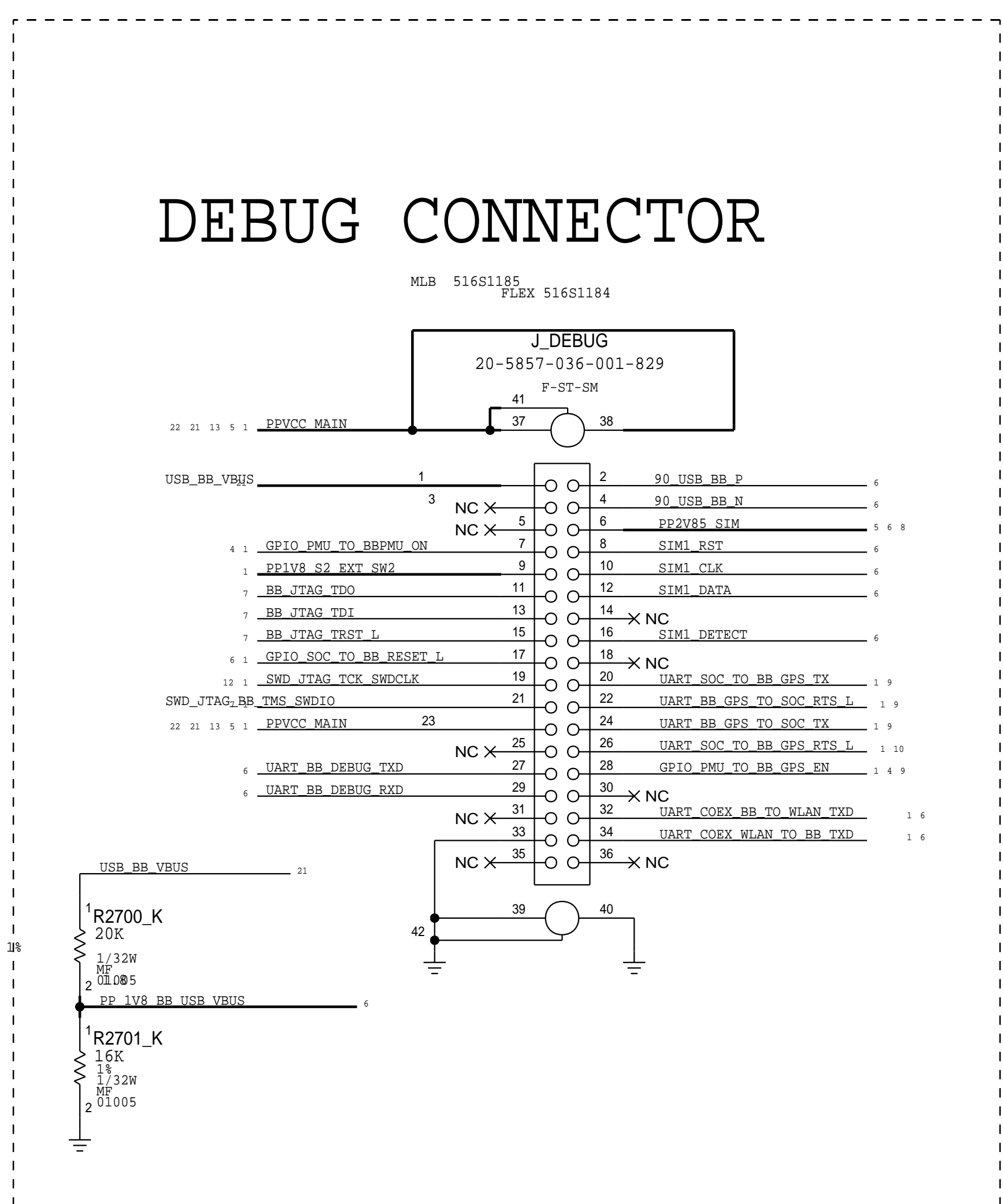
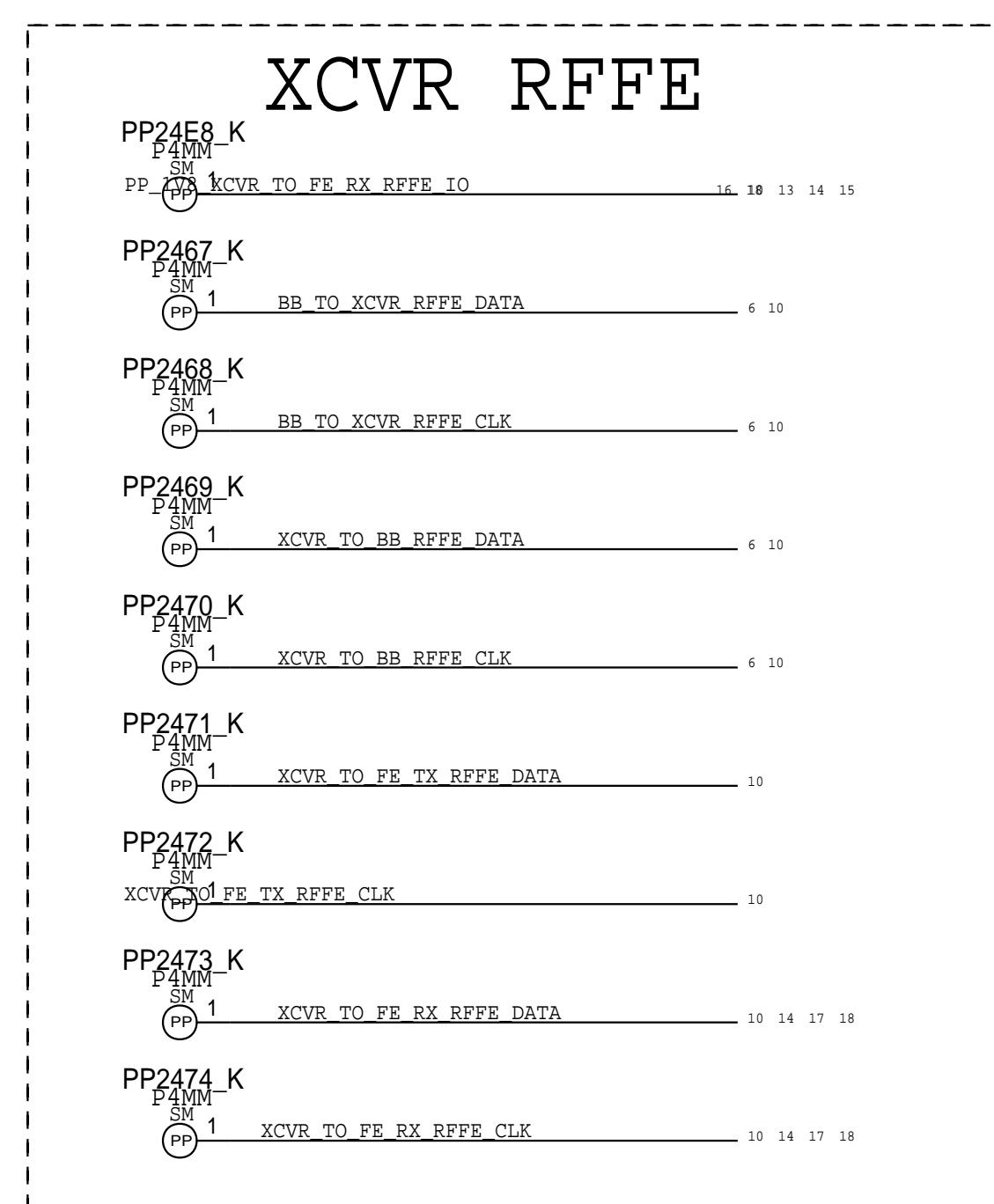
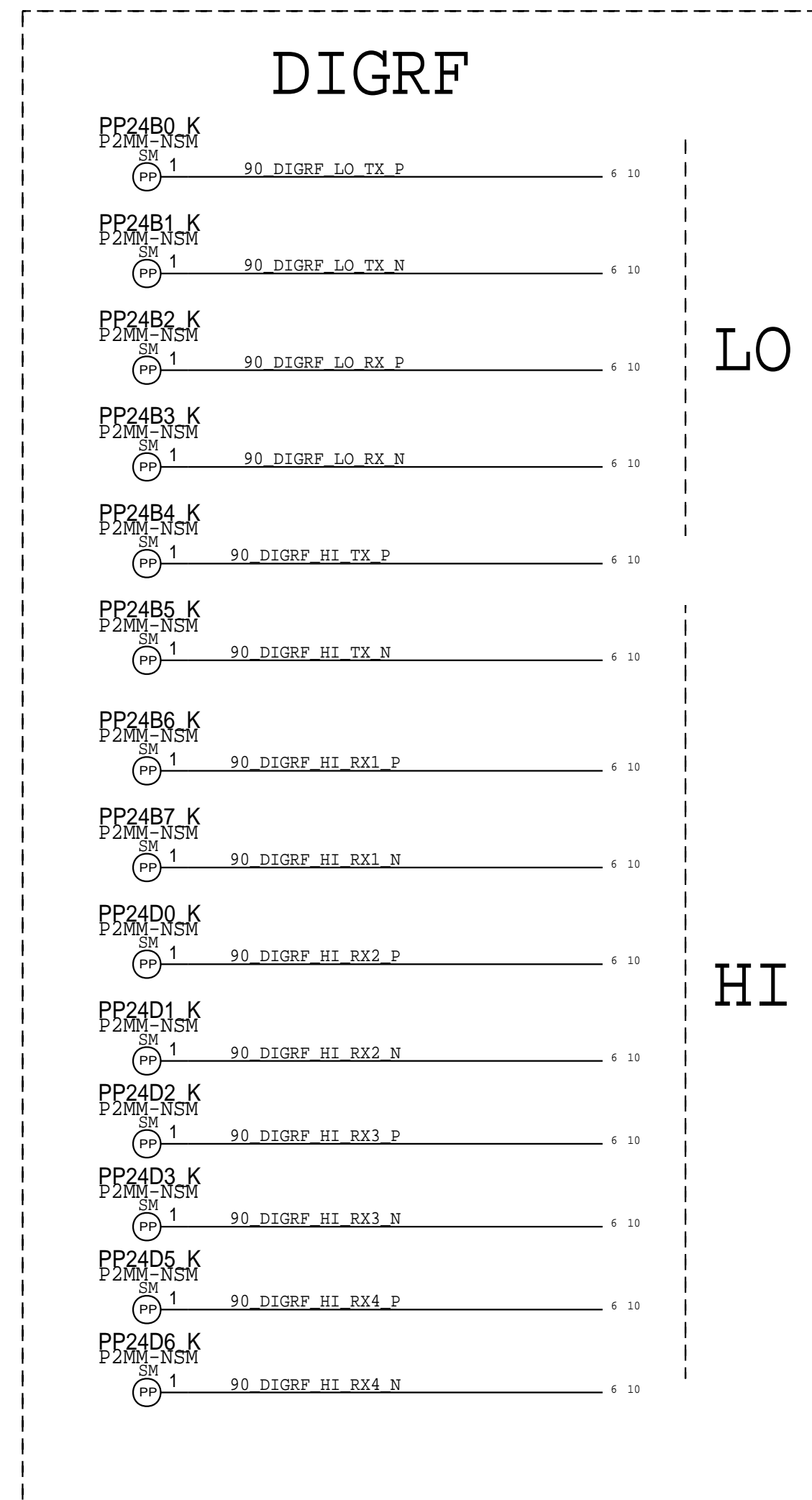
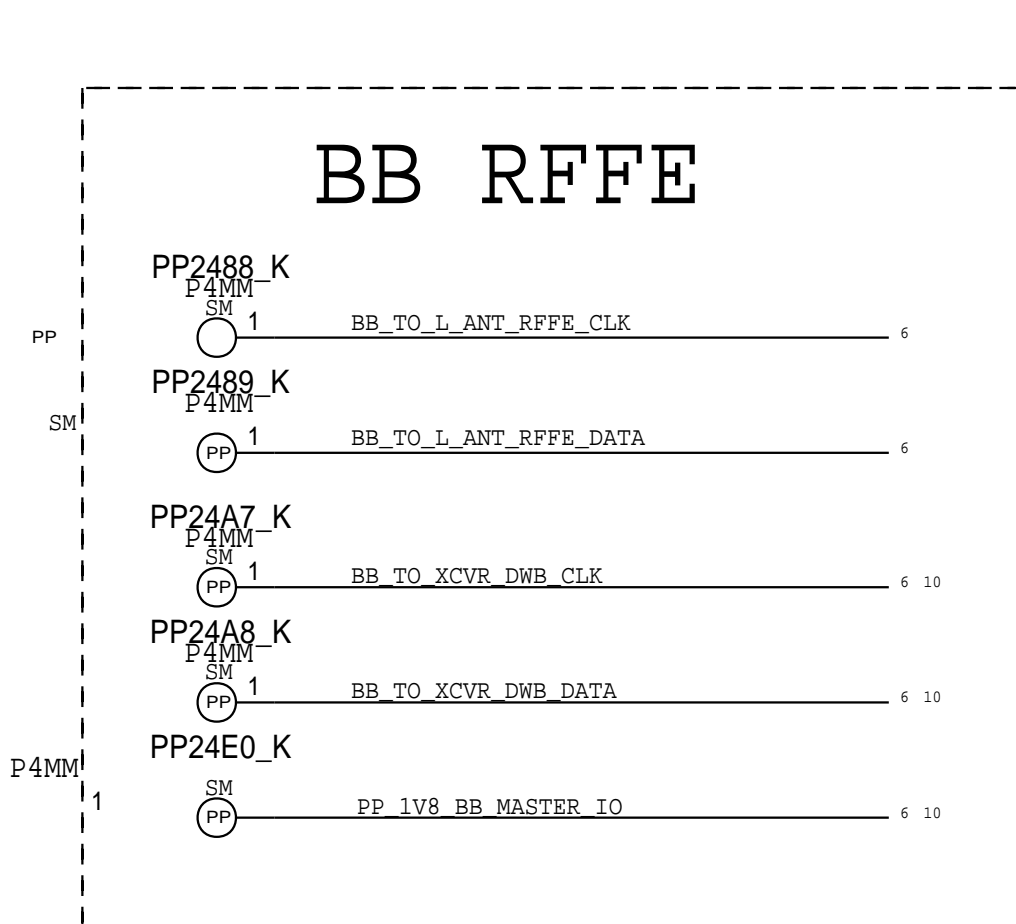
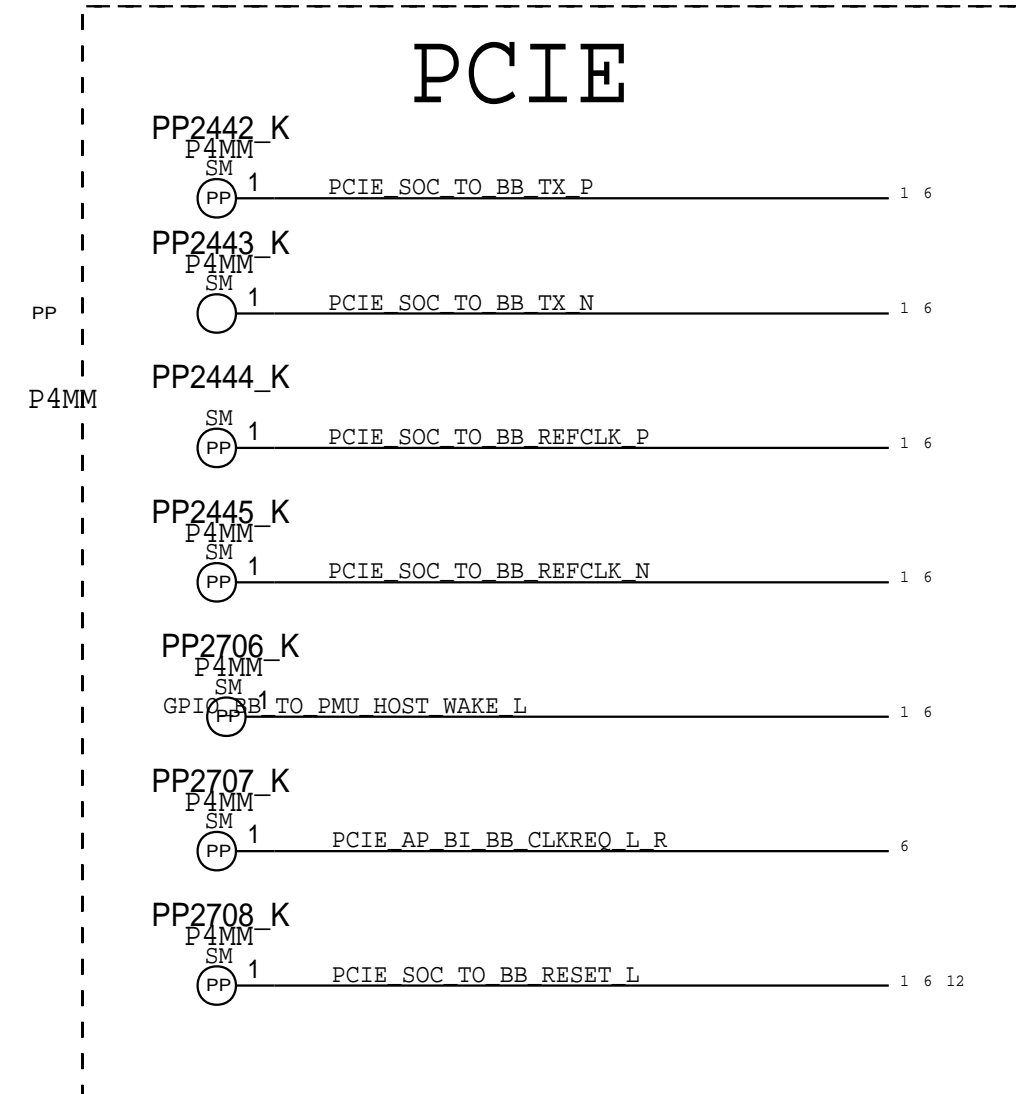
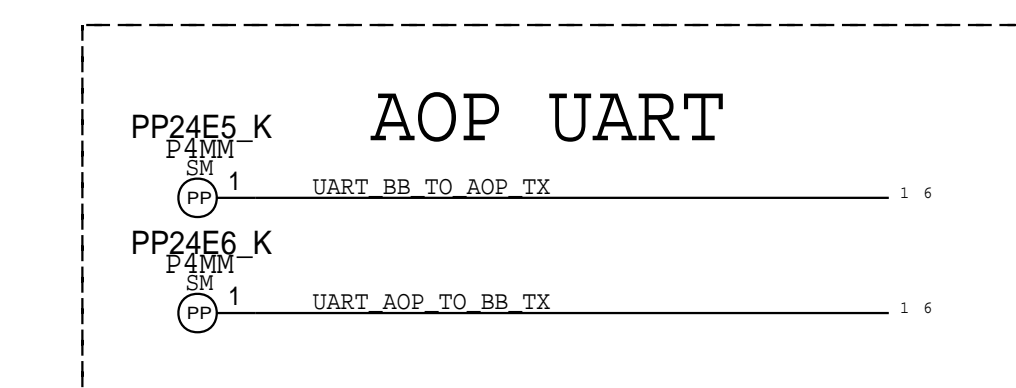
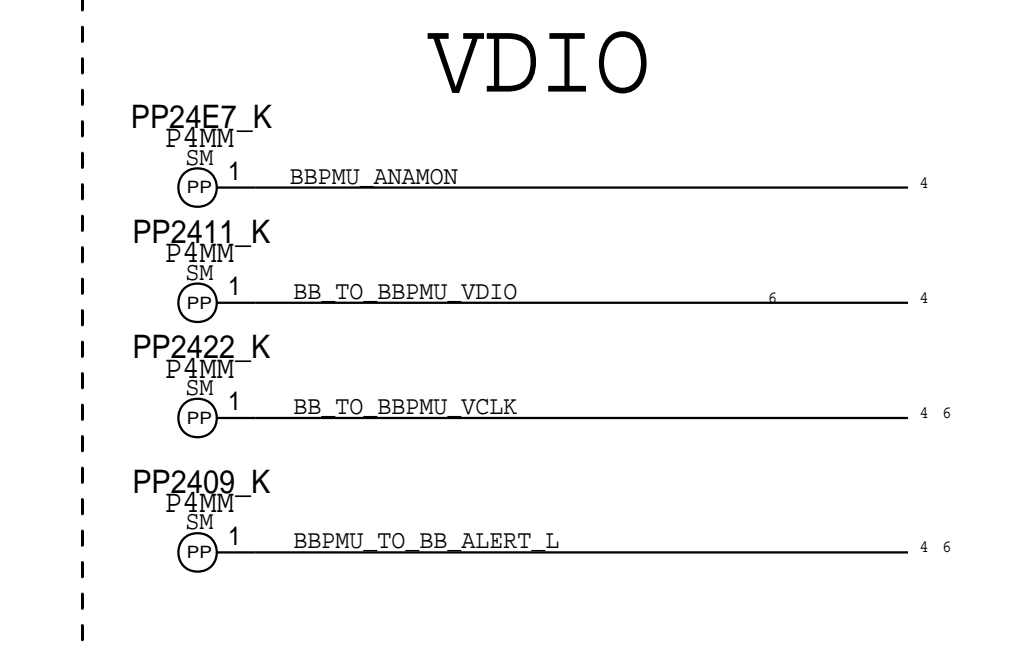
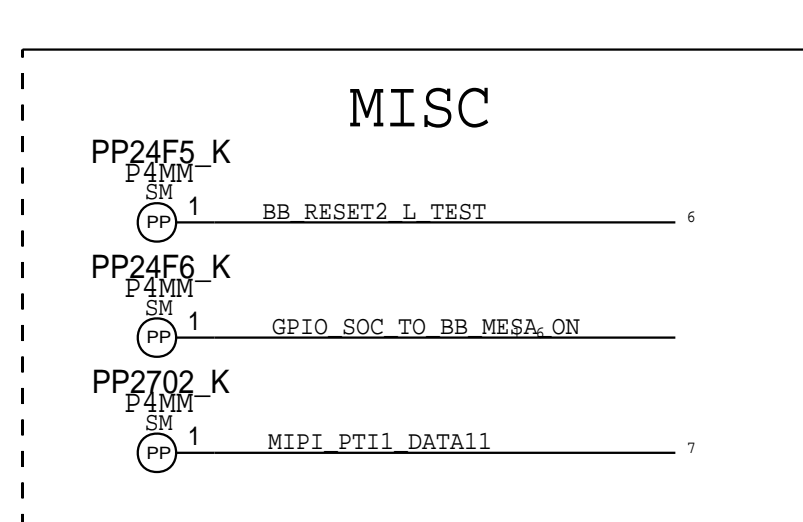
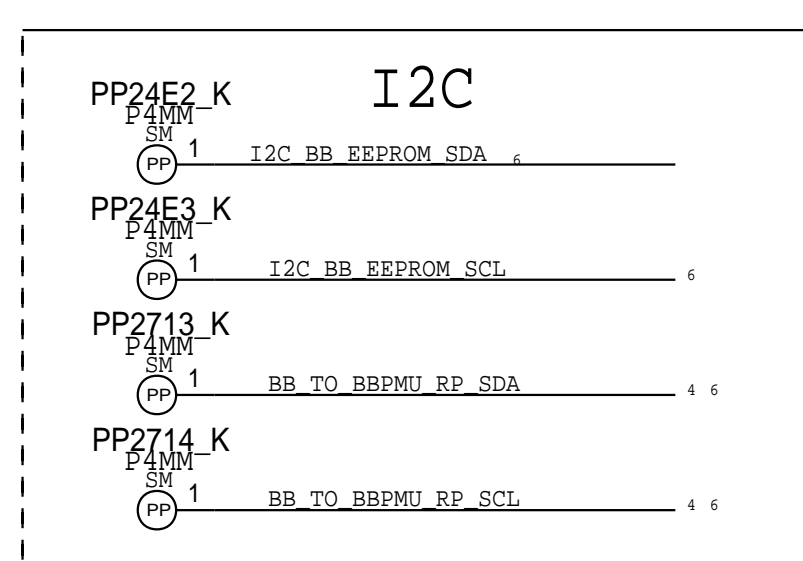
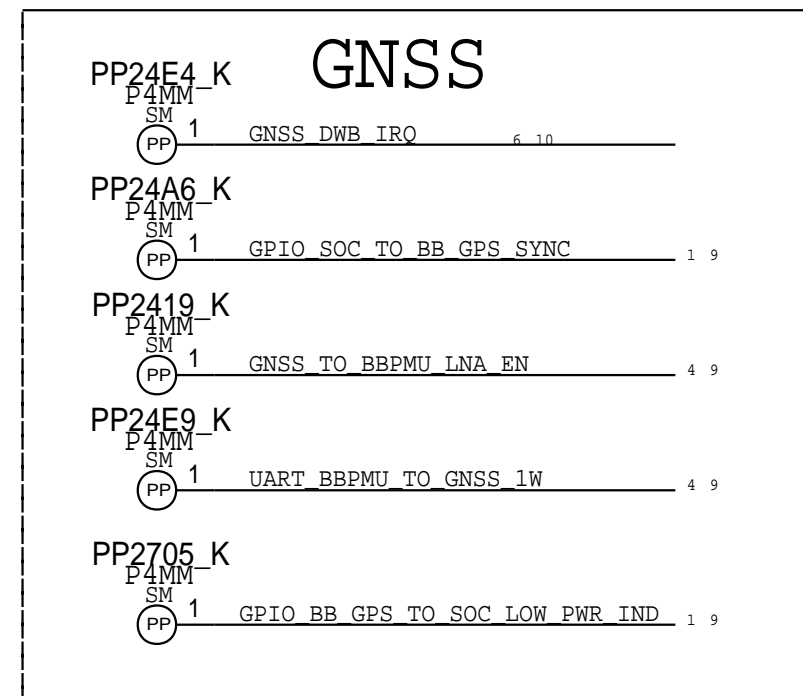
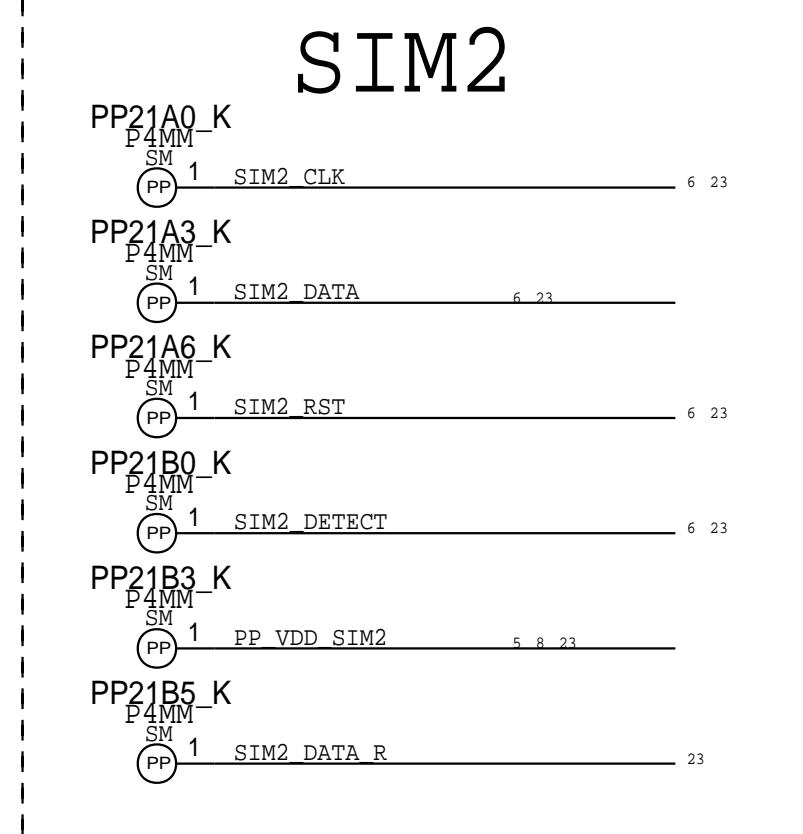
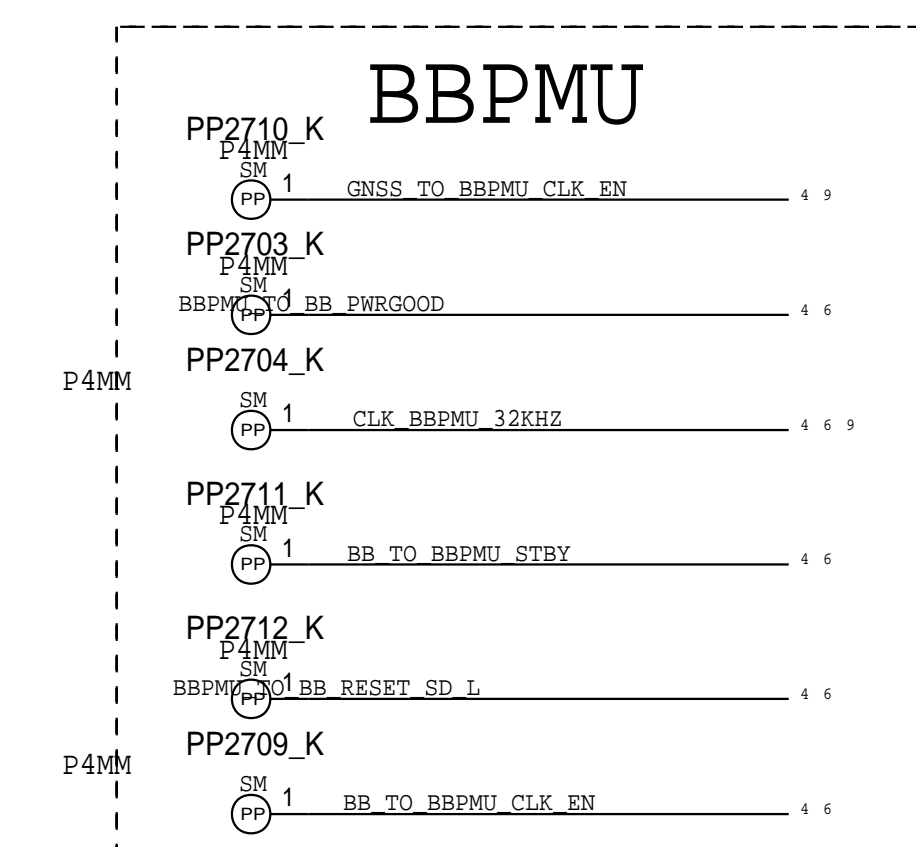
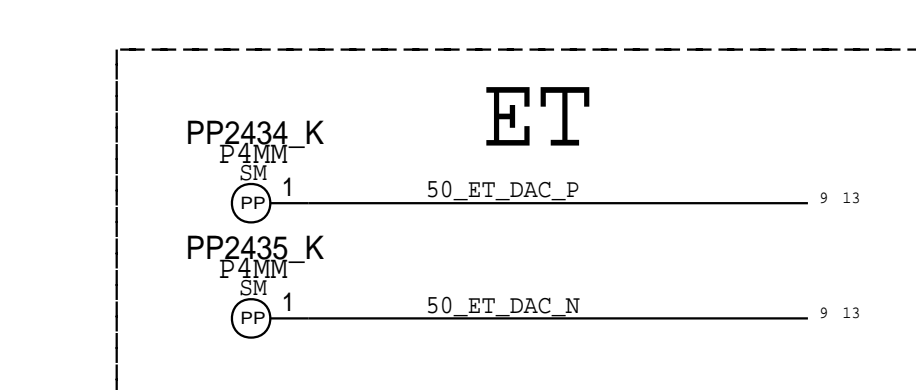
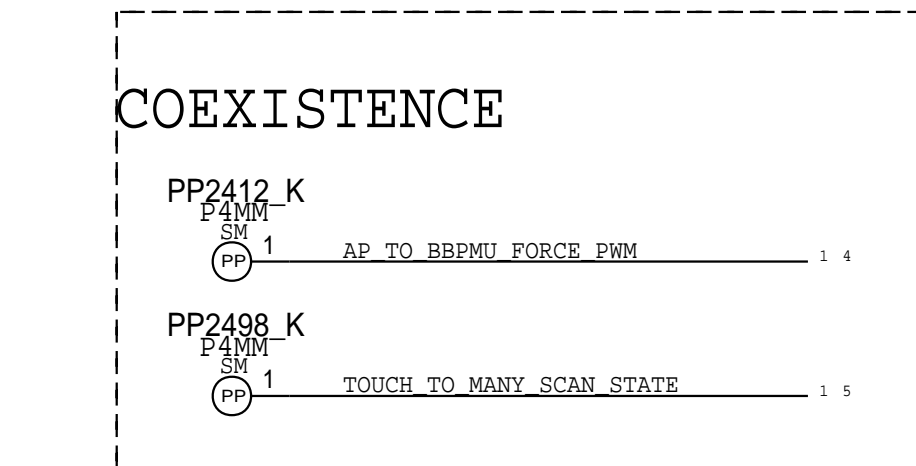
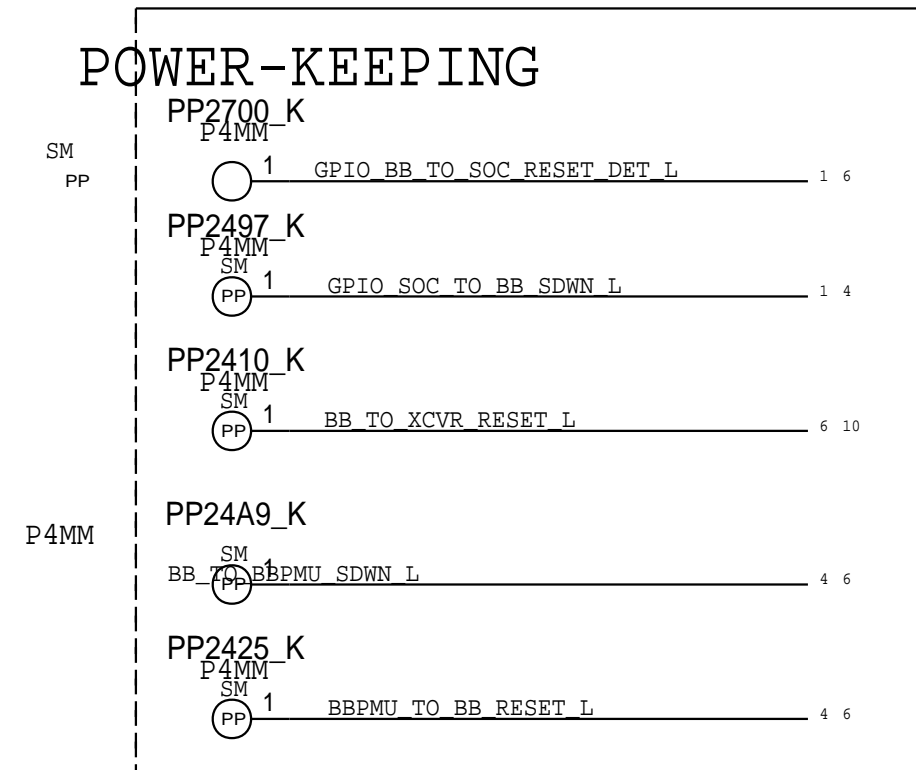
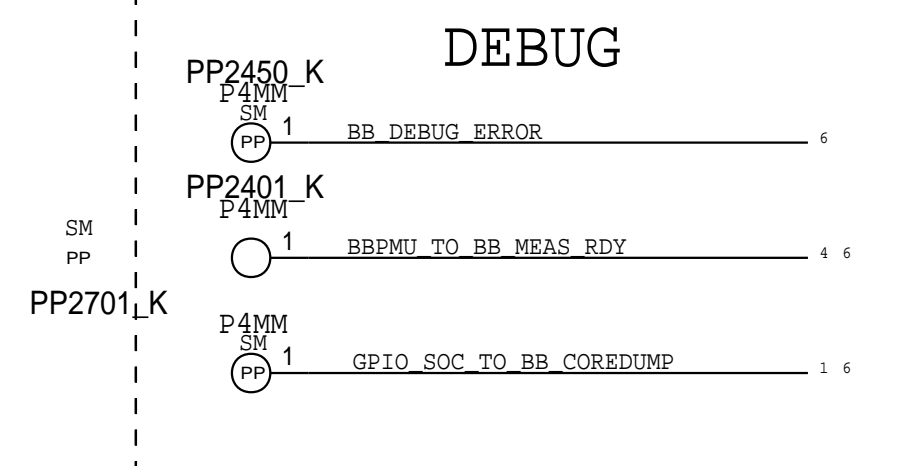
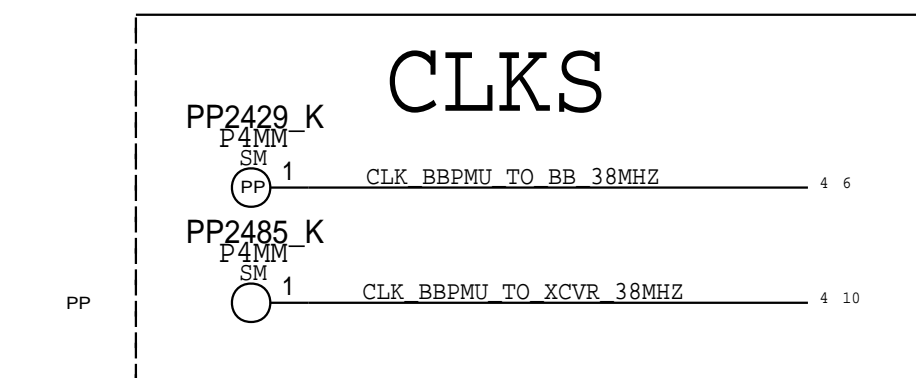
UPPER ANTENNA FEEDS

LB/MHB/GPS/2.4G WLAN QUADPLEXER

SECONDARY ANT



DEBUG: TEST POINTS

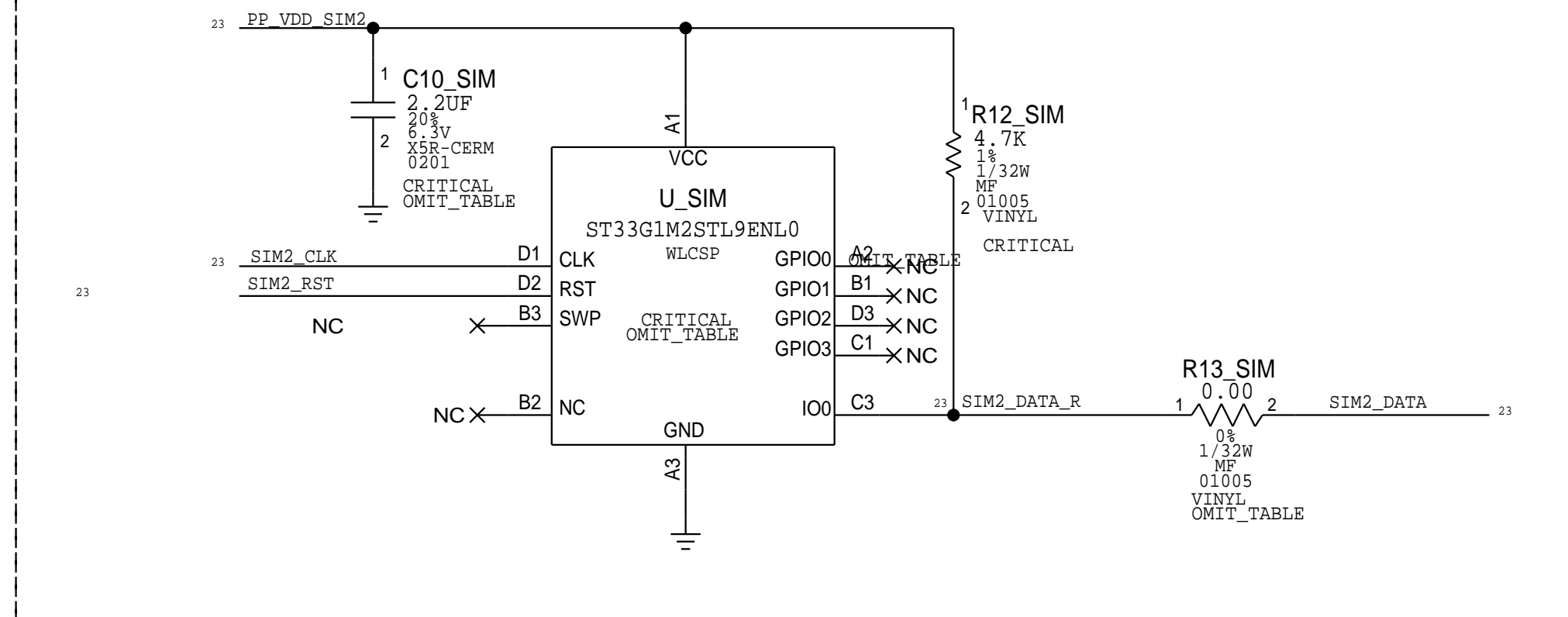


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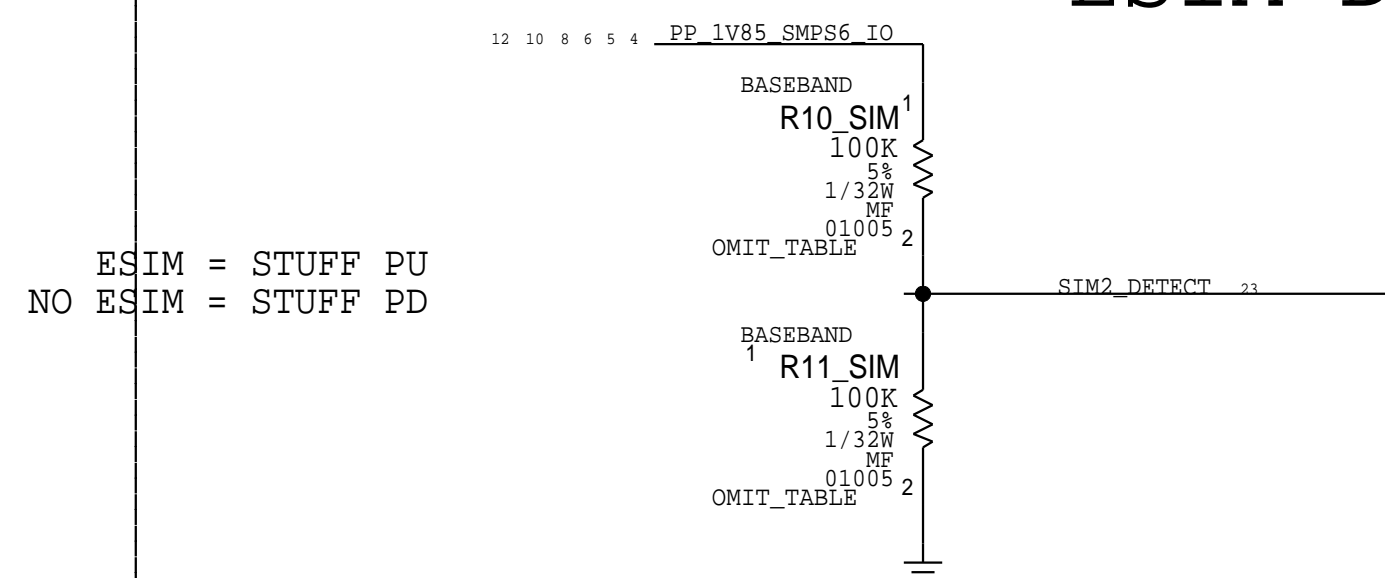


ESIM

VINYL
APN: 337S00578
NL0, BIRCH 4.0 DEV 2



ESIM DETECT



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      ESIM = STUFF PU
NO ESIM = STUFF PD

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ICE18.8 ONLY - TRIPLEXER & ANT1/2

LB/MHB/GPS TRIPLEXER

