

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	
												3			2020-10-18	
LAST_MODIFICATION=Sun Oct 18 23:09:39 2020						LAST_MODIFICATION=Sun Oct 18 23:09:39 2020										
PAGE	CSA	CONTENTS			SYNC	DATE	PAGE	CSA	CONTENTS			SYNC	DATE			
1	1	TABLE OF CONTENTS					53	56	SENSOR: KOBOL VT			J517_MLB_B_REV_5.5	10/18/2020			
2	2	BLOCK DIAGRAM			J522_MLB_B_4.3.0	12/21/2019	54	59	LDCM			J517_MLB_B_REV_5.5	10/18/2020			
3	3	BOM TABLES: SOC/PMU/NAND			J517_MLB_B_REV_5.5	10/18/2020	55	60	CAMERA: ADAMS REAR POWER (1/2)			J517_MLB_B_REV_5.5	10/18/2020			
4	4	BOM TABLES: MECH/DISC/ETC			J522_MLB_B_4.3.0	12/21/2019	56	61	CAMERA: ADAMS REAR IO (2/2)			J517_MLB_B_REV_5.5	10/18/2020			
5	5	SOC: MISC & ALIASES			J517_MLB_B_REV_5.5	10/18/2020	57	62	CAMERA: JASPER POWER			J517_MLB_B_REV_5.5	10/18/2020			
6	6	SOC: MAIN			J517_MLB_B_REV_5.5	10/18/2020	58	65	CAMERA: B2B RCAM1 WIDE			J517_MLB_B_REV_5.5	10/18/2020			
7	7	SOC: I/OS			J517_MLB_B_REV_5.5	10/18/2020	59	66	CAMERA: B2B RCAM2 SWIDE			J517_MLB_B_REV_5.5	10/18/2020			
8	8	SOC: LPDP & MIPI			J517_MLB_B_REV_5.5	10/18/2020	60	67	CAMERA: B2B JASPER			J517_MLB_B_REV_5.5	10/18/2020			
9	9	SOC: PCIE			J517_MLB_B_REV_5.5	10/18/2020	61	68	CAMERA: ADAMS FRONT POWER (1/2)			J517_MLB_B_REV_5.5	10/18/2020			
10	10	SOC: AOP			J517_MLB_B_REV_5.5	10/18/2020	62	69	CAMERA: ADAMS REAR IO (2/2)			J517_MLB_B_REV_5.5	10/18/2020			
11	11	SOC: POWER (DDR,SRAM)			J517_MLB_B_REV_5.5	10/18/2020	63	74	NFC			J517_MLB_B_REV_5.5	10/18/2020			
12	12	SOC: POWER (IO)			J517_MLB_B_REV_5.5	10/18/2020	64	76	GPM			J517_MLB_B_REV_5.5	10/18/2020			
13	13	SOC: POWER (CPU, GPU)			J517_MLB_B_REV_5.5	10/18/2020	65	77	POWER: SIMETRA (1/3)			J517_MLB_B_REV_5.5	10/18/2020			
14	14	SOC: POWER (SRAM, SOC)			J517_MLB_B_REV_5.5	10/18/2020	66	78	POWER: SIMETRA (2/3)			J517_MLB_B_REV_5.5	10/18/2020			
15	15	SOC: GND			J517_MLB_B_REV_5.5	10/18/2020	67	79	POWER: SIMETRA (3/3)			J517_MLB_B_REV_5.5	10/18/2020			
16	16	SOC: GND-2			J517_MLB_B_REV_5.5	10/18/2020	68	80	ORION CONNECTOR & POWER PATH			J517_MLB_B_REV_5.5	10/18/2020			
17	18	NAND			J517_MLB_B_REV_5.5	10/18/2020	69	81	POWER: SERA (1/4)			J517_MLB_B_REV_5.5	10/18/2020			
18	19	NAND			J517_MLB_B_REV_5.5	10/18/2020	70	82	POWER: SERA (2/4)			J517_MLB_B_REV_5.5	10/18/2020			
19	21	SENSOR: KOBOL, PHOS2, MOLY			J517_MLB_B_REV_5.5	10/18/2020	71	83	POWER: SERA (3/4)			J517_MLB_B_REV_5.5	10/18/2020			
20	22	TOUCH: LANAI MASTER			J517_MLB_B_REV_5.5	10/18/2020	72	84	POWER: SERA (4/4)			J517_MLB_B_REV_5.5	10/18/2020			
21	23	TOUCH: KONA SLAVE			J517_MLB_B_REV_5.5	10/18/2020	73	85	POWER: CHARGER			J517_MLB_B_REV_5.5	10/18/2020			
22	24	TOUCH: GRAPE CONN			J517_MLB_B_REV_5.5	10/18/2020	74	86	POWER: VT LDO			J517_MLB_B_REV_5.5	10/18/2020			
23	25	TOUCH: SENSE & DRIVE ALIAS			J517_MLB_B_REV_5.5	10/18/2020	75	87	POWER: BELLATRIX2 BOOSTS			J517_MLB_B_REV_5.5	10/18/2020			
24	26	CAMERA: PENROSE ADC			J517_MLB_B_REV_5.5	10/18/2020	76	89	POWER: BATTERY & ORION & SCORPIUS CONN			J517_MLB_B_REV_5.5	10/18/2020			
25	27	CAMERA: B2B STROBE & MISC			J517_MLB_B_REV_5.5	10/18/2020	77	90	SOC: DEBUG			J517_MLB_B_REV_5.5	10/18/2020			
26	28	CAMERA: B2B FRONT			J517_MLB_B_REV_5.5	10/18/2020	78	91	ALIASES: BB/WLAN/BT			J517_MLB_A_REV_3.0	10/18/2020			
27	29	CAMERA: STROBE			J517_MLB_A_REV_3.0	10/18/2020	79	92	ALIASES: J517/J522 DIFF			J517_MLB_B_REV_5.5	10/18/2020			
28	30	AUDIO: BORRIS BOOST			J517_MLB_B_REV_5.5	10/18/2020	80	93	TEST: TPS/MECH			J517_MLB_B_REV_5.5	10/18/2020			
29	31	AUDIO: DMIC B2B & FILTERS			J517_MLB_B_REV_5.5	10/18/2020	81	94	TEST: TPS ADDITIONAL			J517_MLB_B_REV_5.5	10/18/2020			
30	32	AUDIO: SPEAKER AMPS (CNL)			J517_MLB_B_REV_5.5	10/18/2020	82	95	TEST: EE TP/PP			J517_MLB_B_REV_5.5	10/18/2020			
31	33	AUDIO: SPEAKER AMPS (CNR)			J517_MLB_B_REV_5.5	10/18/2020	83	98	TEST: DCR TABLE			J517_MLB_B_REV_5.5	10/18/2020			
32	34	AUDIO: SPEAKER AMPS (FHL)			J517_MLB_B_REV_5.5	10/18/2020	84	99	ALIASES: POWER			J517_MLB_B_REV_5.5	10/18/2020			
33	35	AUDIO: SPEAKER AMPS (FHR)			J517_MLB_B_REV_5.5	10/18/2020										
34	36	IO: ACE PERIPHERALS			J517_MLB_B_REV_5.5	10/18/2020										
35	37	IO: IOFLEX B2B & SIM B2B			J517_MLB_B_REV_5.5	10/18/2020										
36	38	IO: ACE USB-C CONTROLLER			J517_MLB_B_REV_5.5	10/18/2020										
37	39	IO: USB-C HIGH SPEED			J517_MLB_B_REV_5.5	10/18/2020										
38	40	IO: PARROT,LT,ACE/BSB FLASH			J517_MLB_B_REV_5.5	10/18/2020										
39	41	PEARL: RIGEL DRIVER			J517_MLB_B_REV_5.5	10/18/2020										
40	42	PEARL: B2B TITUS + JULIET			J517_MLB_B_REV_5.5	10/18/2020										
41	43	PEARL: B2B ROSALINE + MISC			J517_MLB_B_REV_5.5	10/18/2020										
42	45	DISPLAY: B2B CONN			J517_MLB_B_REV_5.5	10/18/2020										
43	46	DISPLAY: EDP SUPPORT			J517_MLB_B_REV_5.5	10/18/2020										
44	47	2DBL: LUME BOOST			J517_MLB_B_REV_5.5	10/18/2020										
45	48	2DBL: B2B CONN			J517_MLB_B_REV_5.5	10/18/2020										
46	49	BOM Option			J517_WIFI_MLB_REV_0.33	08/24/2020										
47	50	PERONI			J517_WIFI_MLB_REV_0.33	08/24/2020										
48	51	J517 5G rFEM (UAT)			J517_WIFI_MLB_REV_0.33	08/24/2020										
49	52	J517 5G rFEM (LAT)			J517_WIFI_MLB_REV_0.33	08/24/2020										
50	53	2G4 rFEM (UAT)			J517_WIFI_MLB_REV_0.33	08/24/2020										
51	54	2G4 rFEM (LAT)			J517_WIFI_MLB_REV_0.33	08/24/2020										
52	55	J517 Front End			J517_WIFI_MLB_REV_0.33	08/24/2020										
BOM_COST_GROUP=NO_COST_ITEMS																
8		7		6		5		4		3		2		1		

www.DeviceDB.com

YX77 schematic boardview bios dump

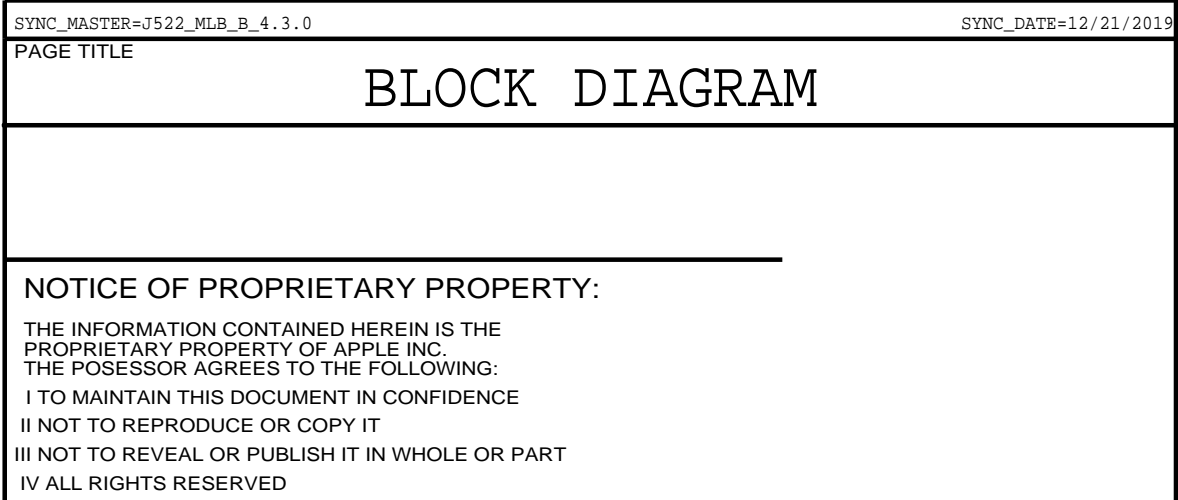
TABLE OF CONTENTS

SYNC_MASTER=J522_MLB_B_1.18.0
DRAWING TITLE
SCHEM,MLB-A,YN,J517

PACKAGING OPTIONS

PACK_OPTIONS TO INCLUDE IN NETLIST
J517

Apple Confidential Updated: February 27, 2020



BOM TABLES: SOC, PMU, NAND

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-23740	1	900,70A,B1+40,1Y,RC,LP,DEV,AX,N,S,M2502	U0600	CRITICAL	NAND:ULTIMATE
998-23740	1	900,70A,B1+40,1Y,RC,LP,DEV,AX,N,S,M2502	U0600	CRITICAL	NAND:SUPREME_TB
998-23740	1	900,70A,B1+40,1Y,RC,LP,DEV,AX,N,S,M2502	U0600	CRITICAL	NAND:SUPREME_HY
998-23740	1	900,70A,B1+40,1Y,RC,LP,DEV,AX,N,S,M2502	U0600	CRITICAL	NAND:EXTREME_TB
998-23740	1	900,70A,B1+40,1Y,RC,LP,DEV,AX,N,S,M2502	U0600	CRITICAL	NAND:EXTREME_HY

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-23748	1	SOC,TGA,B0+16G,1Y,IC,LP,DEV,RX,N,S,H3502	U0600	CRITICAL	X_VERSION

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
998-23741	998-23740		U0600	4G MICRON ATK LP
998-23742	998-23740		U0600	4G HYNIX SCK LP
998-23743	998-23740		U0600	4G HYNIX ATK LP
998-23744	998-23740		U0600	4G MICRON SCK HP
998-23745	998-23740		U0600	4G MICRON ATK HP
998-23746	998-23740		U0600	4G HYNIX SCK HP
998-23747	998-23740		U0600	4G HYNIX ATK HP

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
998-23749	998-23748		U0600	8G MICRON ATK LP
998-23750	998-23748		U0600	8G HYNIX SCK LP
998-23751	998-23748		U0600	8G HYNIX ATK LP
998-23752	998-23748		U0600	8G MICRON SCK HP
998-23753	998-23748		U0600	8G MICRON ATK HP
998-23754	998-23748		U0600	8G HYNIX SCK HP
998-23755	998-23748		U0600	8G HYNIX ATK HP

PMU-SERA

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-22364	1	IC, PMD, SERA, A0, OTP-BPC, CSP440	U8100	CRITICAL	J517aJ518
998-22363	1	IC, PMD, SERA, B0, OTP-APG, CSP440	U8100	CRITICAL	J522aJ523

PMU-SIMETRA

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-22366	1	IC,PMU,SIMETRA,A0,OTP-BPC,CSP196	U7700	CRITICAL	J517aJ518
998-22365	1	IC,PMU,SIMETRA,A1,OTP-APC,CSP196	U7700	CRITICAL	J522aJ523

CHARGER-POTOMAC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343800388	1	IC,CHRGSR,POTOMAC,D2559A0,OTP-IC,CSF182	U8500	CRITICAL	J517&J518
343800389	1	IC,CHRGSR,POTOMAC,D2559A0,OTP-IC,CSF182	U8500	CRITICAL	J522&J523

ADAMS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S00589	1	1C, PMU, ADAMS REAR, D265780, OTF-GD	U6100	CRITICAL	J5176wJ518
338S00588	1	1C, PMU, ADAMS FRONT, D265780, OTF-GC	U6900	CRITICAL	J5176wJ518
338S00591	1	1C, PMU, ADAMS REAR, D265780, OTF-HD	U6100	CRITICAL	J5226wJ523
338S00590	1	1C, PMU, ADAMS FRONT, D265780, OTF-HC	U6900	CRITICAL	J5226wJ523

NAND

ULTIMATE NAND CONFIGURATIONS (U1900 NOSTUFF)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00462	1	TOSHIBA,BICS4P5,4DP	U1800	CRITICAL	NAND:ULTIMATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00437	335S00462	NAND:ULTIMATE	U1800	HYNIX, 3DV5 ,2DP

SUPREME-TB NAND CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00480	1	TOSHIBA,BICS4P5,5DP	U1800	CRITICAL	NAND: SUPREME_TB
335S00462	1	TOSHIBA,BICS4P5,4DP	U1900	CRITICAL	NAND: SUPREME_TB

SUPREME-HY NAND CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00437	2	HYNIX,3DV5,2DP	U1800,U1900	CRITICAL	NAND:SUPREME_HY

EXTREME-TB NAND CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00481	1	TOSHIBA, B1CS4P5, 9DP	U1800	CRITICAL	NAND: EXTREME_TB
335S00464	1	TOSHIBA, B1CS4P5, 8DP	U1900	CRITICAL	NAND: EXTREME_TB

EXTREME-HY NAND CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00482	1	HYNIX, 3DV5, 5DP	U1800	CRITICAL	NAND: EXTREME_HY
335S00438	1	HYNIX, 3DV5, 4DP	U1900	CRITICAL	NAND: EXTREME_HY

PRIME-TB NAND CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00466	2	TOSHIBA, B1CS4P5, 16DP	U1800, U1900	CRITICAL	NAND: PRIME_TB

PRIME-HY NAND CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S000483	1	HYNIX, 3DV5, 9DP	U1800	CRITICAL	NAND-PRIME_HY
335S000439	1	HYNIX, 3DV5, 8DP	U1900	CRITICAL	NAND-PRIME_HY

DOUBLE PRIME CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00468	2	TOSHIBA,BICS4P5,160P	U1800,U1900	CRITICAL	NAND:DBL_PRIME

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00458	335S00468	NAND:DBL_PRIME	U1800,U1900	HYNIX,3DV5,16DP

8

7

6

5

4

3

2

1

BOM TABLES: MECHANICAL, BARCODES, DISCRETES, ETC.

CKPLUS WAIVE TABLE

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

MECHANICAL PARTS

TODO: ADD MECHANICAL PARTS TABLE FOR EVT

BARCODE LABEL/EEEE CODES

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-7691	1	EEEE FOR 639-11662 (MLB-A ULTIMATE)	EEEE_Q12Q	CRITICAL	EEEE:EEEE_MLB_A_ULTIMATE
825-7691	1	EEEE FOR 639-11663 (MLB-A SUPRAME-TB)	EEEE_Q12R	CRITICAL	EEEE:EEEE_MLB_A_SUPRAME-TB
825-7691	1	EEEE FOR 639-11656 (MLB-A SUPRAME-HY)	EEEE_Q12J	CRITICAL	EEEE:EEEE_MLB_A_SUPRAME-HY
825-7691	1	EEEE FOR 639-11657 (MLB-A EXTREME-TB)	EEEE_Q12K	CRITICAL	EEEE:EEEE_MLB_A_EXTREME-TB
825-7691	1	EEEE FOR 639-11658 (MLB-A EXTREME-HY)	EEEE_Q12L	CRITICAL	EEEE:EEEE_MLB_A_EXTREME-HY
825-7691	1	EEEE FOR 639-11660 (MLB-A PRIME-TB)	EEEE_Q12M	CRITICAL	EEEE:EEEE_MLB_A_PRIME-TB
825-7691	1	EEEE FOR 639-11660 (MLB-A PRIME-HY)	EEEE_Q12N	CRITICAL	EEEE:EEEE_MLB_A_PRIME-HY
825-7691	1	EEEE FOR 639-11661 (MLB-A DOUBLE-PRIME-HY)	EEEE_Q12P	CRITICAL	EEEE:EEEE_MLB_A_DOUBLE-PRIME-HY

CAPS

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
138S00143	138S00144	C7740,ETC	22UF 4V KYOCERA	
138S00163	138S00144	C7740,ETC	22UF 4V TAIYO YUDEN	
132S00211	132S00092	C3204,ETC	270PF 16V KYOCERA	
132S00212	132S00092	C3204,ETC	270PF 16V TAIYO YUDEN	
132S00233	132S00014	C1144,ETC	0.22UF 6.3V	
132S00304	132S00014	C1144,ETC	0.22UF 6.3V	
138S00148	138S00149	C1220,ETC	15UF 4V KYOCERA	
138S00150	138S00149	C1220,ETC	15UF 4V SAMSUNG	
138S00151	138S00149	C1220,ETC	15UF 4V TAIYO YUDEN	
138S0614	138S0732	C2218,ETC	1UF 10V 0402	
132S00088	132S0639	C2221,ETC	0.47UF 25V TAIYO YUNDEN	
138S0706	138S0739	C1215,ETC	1UF 10V 0201 MURATA	
138S0945	138S0739	C1215,ETC	1UF 10V 0201 KYOCERA	
131S00299	131S00118	C3334,ETC	180PF 50V TAIYO YUDEN	
128S00094	128S00067	C77DF,ETC	150UF 6.3V TOKIN	
128S00069	128S00067	C77DF,ETC	150UF 6.3V ROHM	
138S00215	138S1068	C2350,ETC	4.7UF 16V TAIYO YUDEN	
131S00172	131S00164	C1232,ETC	220PF 16V KYOCERA	
131S00173	131S00164	C1232,ETC	220PF 16V TAIYO YUDEN	
131S00142	131S00019	C3236,ETC	150PF 50V 0201	
131S0730	131S0831	C40A7	15PF 50V 0201	
138S00139	138S00138	C12D1,C12F0	4UF 4V MURATA	
138S00164	138S00138	C12D1,C12F0	4UF 4V TAIYO YUDEN	
138S00084	138S00060	C8563,ETC	47UF 6.3V TAIYO YUNDEN	
131S00313	131S0824	C4632	330PF 25V TAIYO YUNDEN	
132S00175	132S00202	C4000,ETC	0.22UF KYOCERA ONLY	
132S00154	132S0683	C6352,ETC	0.1UF 01005 TAIYO	
138S0641	138S0700	C2206,ETC	2.2UF 10V 0402 TAIYO	
132S0316	132S00107	C3828,C3829	.1UF 6.3V 01005 TAIYO	
131S00164	131S00172	C2711,C2713	220PF 16V 01005 MURATA	
131S00173	131S00172	C2711,C2713	220PF 16V 01005 TAIYO	
138S00048	138S00003	C6000,ETC.	15UF 6.3V 0402 KYOCERA	
138S0888	138S00003	C6000,ETC.	15UF 6.3V 0402 TAIYO	
138S0711	138S00020	C8513	10UF 6.3V 0402 TAIYO	
128S00093	128S00009	C3034,ETC.	33UF 16V TOKIN	
128S00103	128S00009	C3034,ETC.	33UF16V SAMSUNG	
132S00200	132S00199	C77E2,ETC.	0.1UF 10V 01005 TAIYO	
132S00204	132S00199	C77E2,ETC.	0.1UF 10V 01005 KYO.	
132S00064	132S0409	C3207,ETC.	0.1UF 16V 0201 MUR.	
132S00262	132S0664	C2228,ETC.	0.047UF 25V 0201 KYO.	
132S00263	132S0664	C2228,ETC.	0.047UF 25V 0201 YAG.	
138S00117	138S00071	C7993,ETC	4UF 6.3V KYOCERA	
138S00116	138S00071	C7993,ETC	4UF 6.3V TAIYO	
138S00128	138S00133	C3801,ETC	.47UF 6.3V 01005 KYO.	
138S00269	138S00133	C3801,ETC	.47UF 6.3V 01005 TY	
138S00164	138S00139	C1200,ETC	4UF 4V 0201 TY	
138S00140	138S00141	C2858,ETC	3.9UF 6.3V 0201 KYO.	
138S00211	138S00242	C4633,ETC	6.8UF 6.3V 0402 MUR.	
138S00049	138S0831	C1141,ETC	2.2UF 6.3V 0201 KYO.	
138S00056	138S1100	C1310,ETC	10UF 4V 3-TERM TY.	
138S00101	138S00095	C3800,ETC	25UF 6.3V 0402 TY.	
138S00229	138S00107	C7820,ETC	20UF 10V 0402 KYO.	
138S00221	138S00146	C4197,ETC	18UF 6.3V 0402 KYO.	

INDUCTORS

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
152S00963	152S00885	L77A0,L8490	0.47UH TAIYO YUDEN	
152S00964	152S00888	L7741,ETC	0.15UH TAIYO YUDEN	
152S01003	152S00888	L7741,ETC	0.15UH SUNLORD	
152S01090	152S01085	L3900	0.68UH 2016 CHIS.	

FERRITE BEADS

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
155S00593	155S0755	FL2771,ETC	0.9 DCR TAIYO YUDEN	
155S0664	155S00018	FL2748,ETC	0.18 DCR MURATA	
155S00097	155S00018	FL2748,ETC	0.17 DCR TDK	
155S0660	155S0513	FL2761,ETC	0.04 DCR MURATA	
155S00194	155S00400	FL2602,ETC	0.69 DCR 01005 TDK	
155S00616	155S0686	FL2102,ETC	0.7 DCR 01005 TDK	
155S00414	155S0876	FL1800,ETC	0.05 DCR 01005 TDK	

MOSFETS

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
376S00319	376S00104	Q2201	DIODES	
376S00182	376S00126	Q8580	DIODES	
376S00071	376S00126	Q8580	DIODES	
376S00314	376S00125	Q8051	DIODES	
376S00182	376S00070	Q8581	DIODES	
376S00190	376S00119	Q8000	DIODES	
376S1245	376S1102	Q6260,ETC	DIODES	

DIODES

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
371S00133	371S00046	D8710	DIODES	
371S0685	371S00318	DZ8051	NXP	
377S0155	377S0184	DZ4014,ETC	ONSEMI	
371S00190	371S00085	D3800	DIODES	

NTCS

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
107S00298	107S0208	R8422 ETC.	TDK 10K NTC	

LEVEL TRANSLATOR

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
311S00212	311S00230	U2370,U4030	TI SINGLE UNI. LT	

D

C

B

A

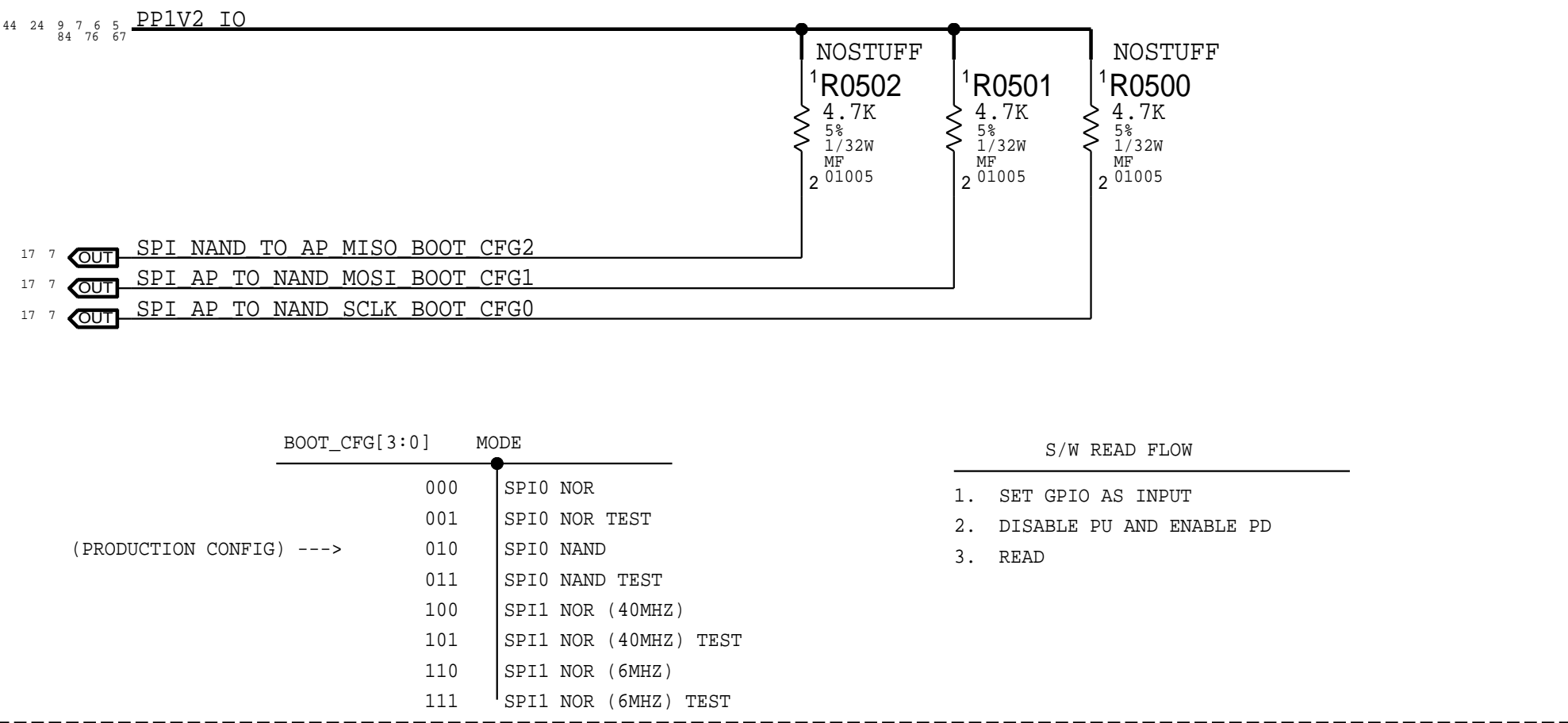
D

C

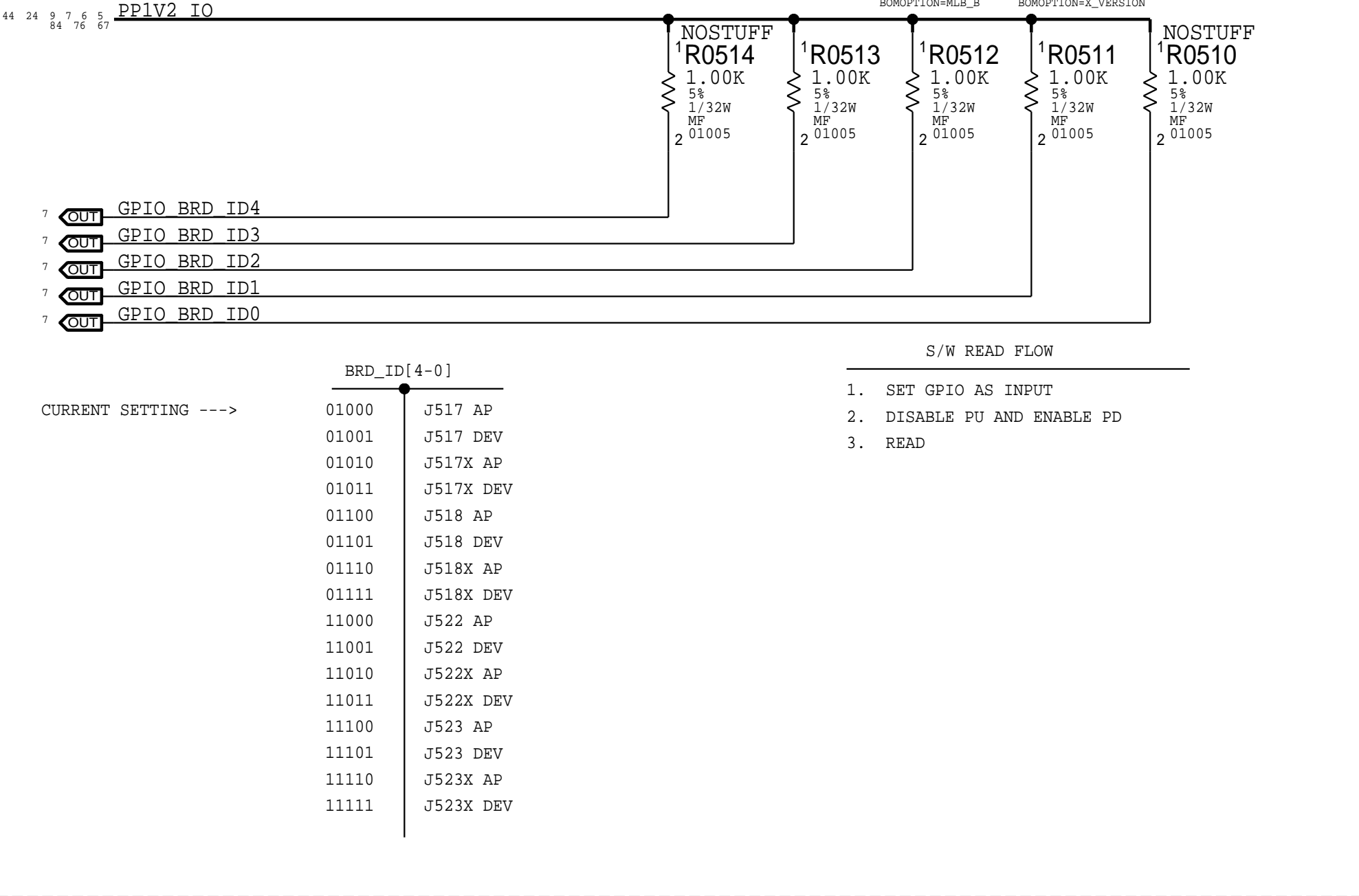
B

A

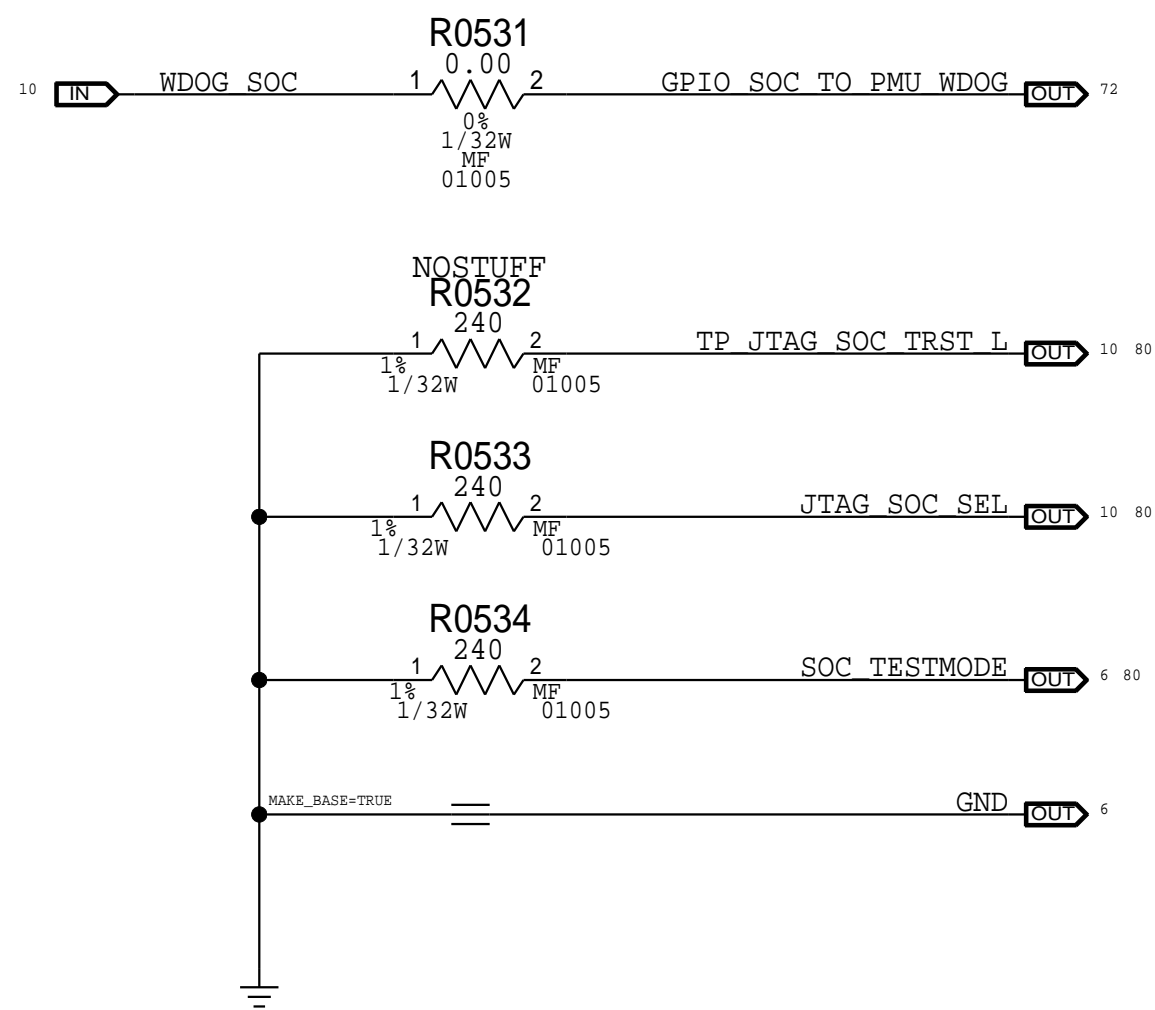
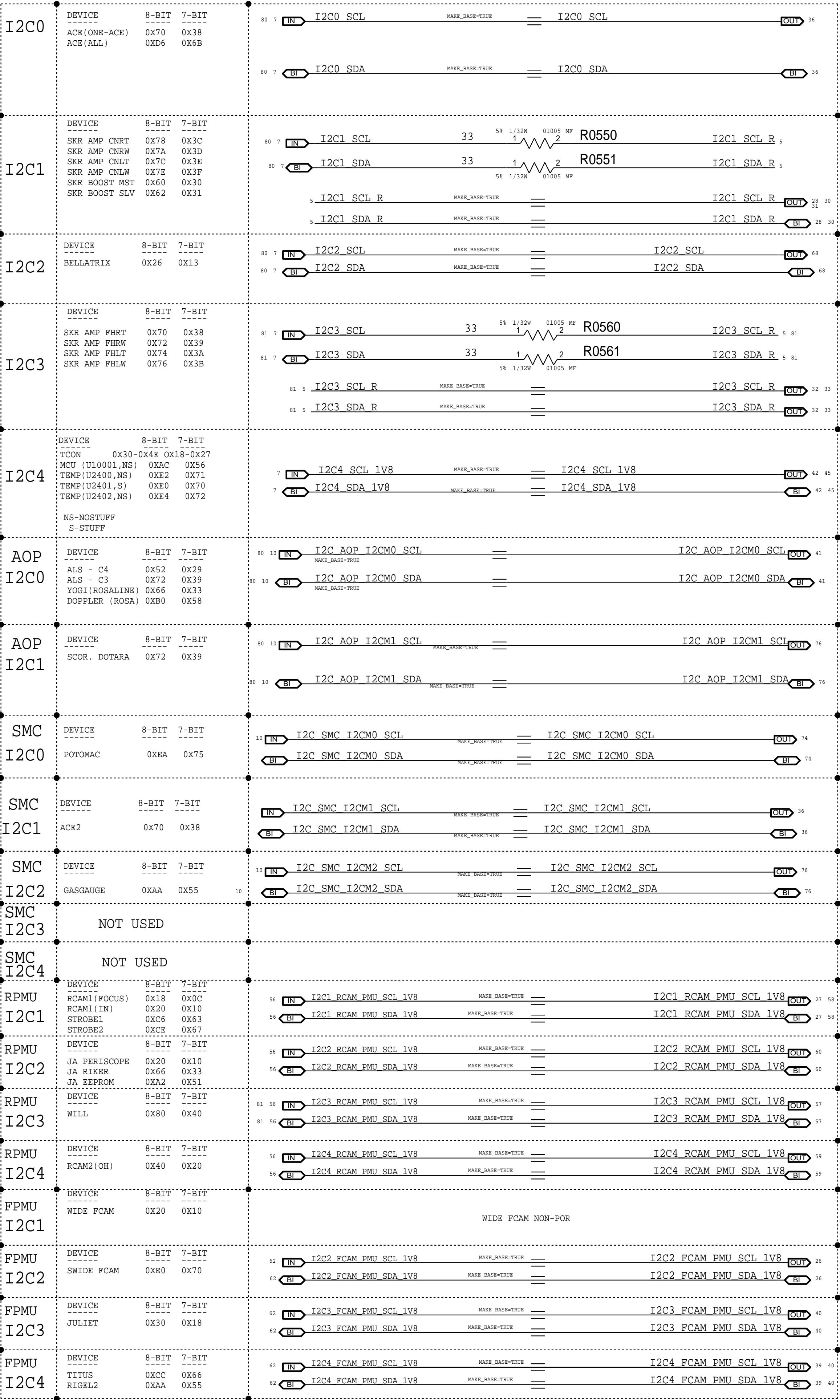
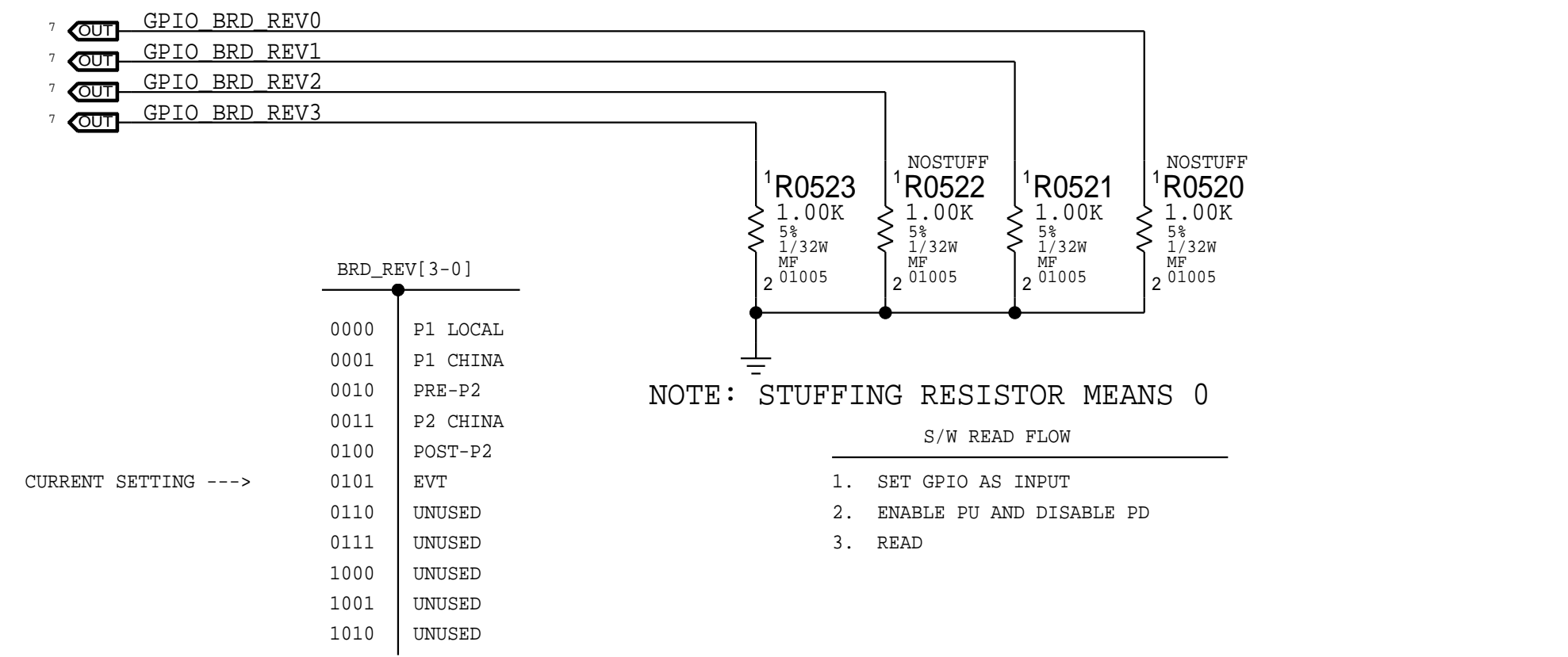
BOOT CONFIG ID

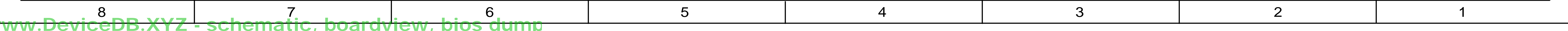


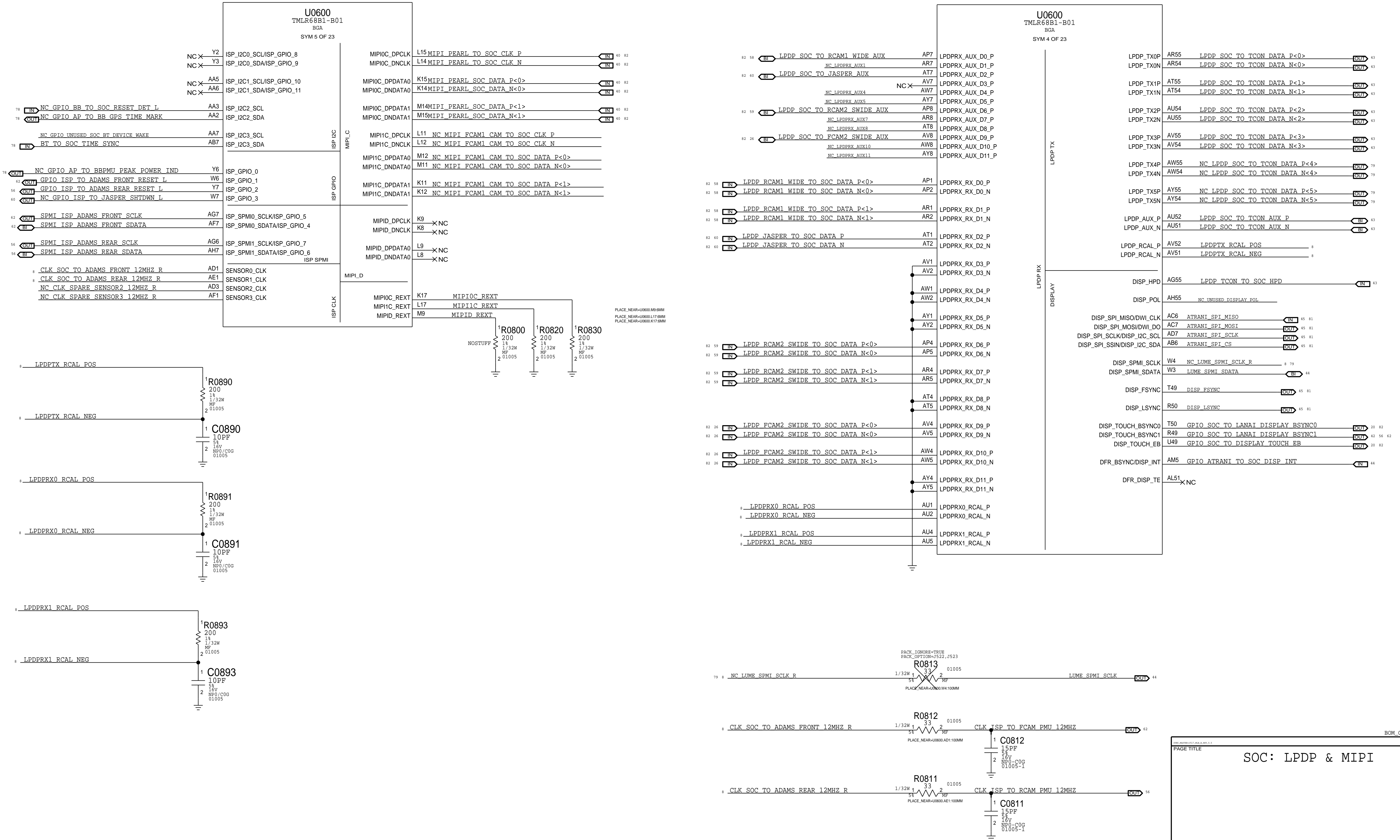
BOARD ID

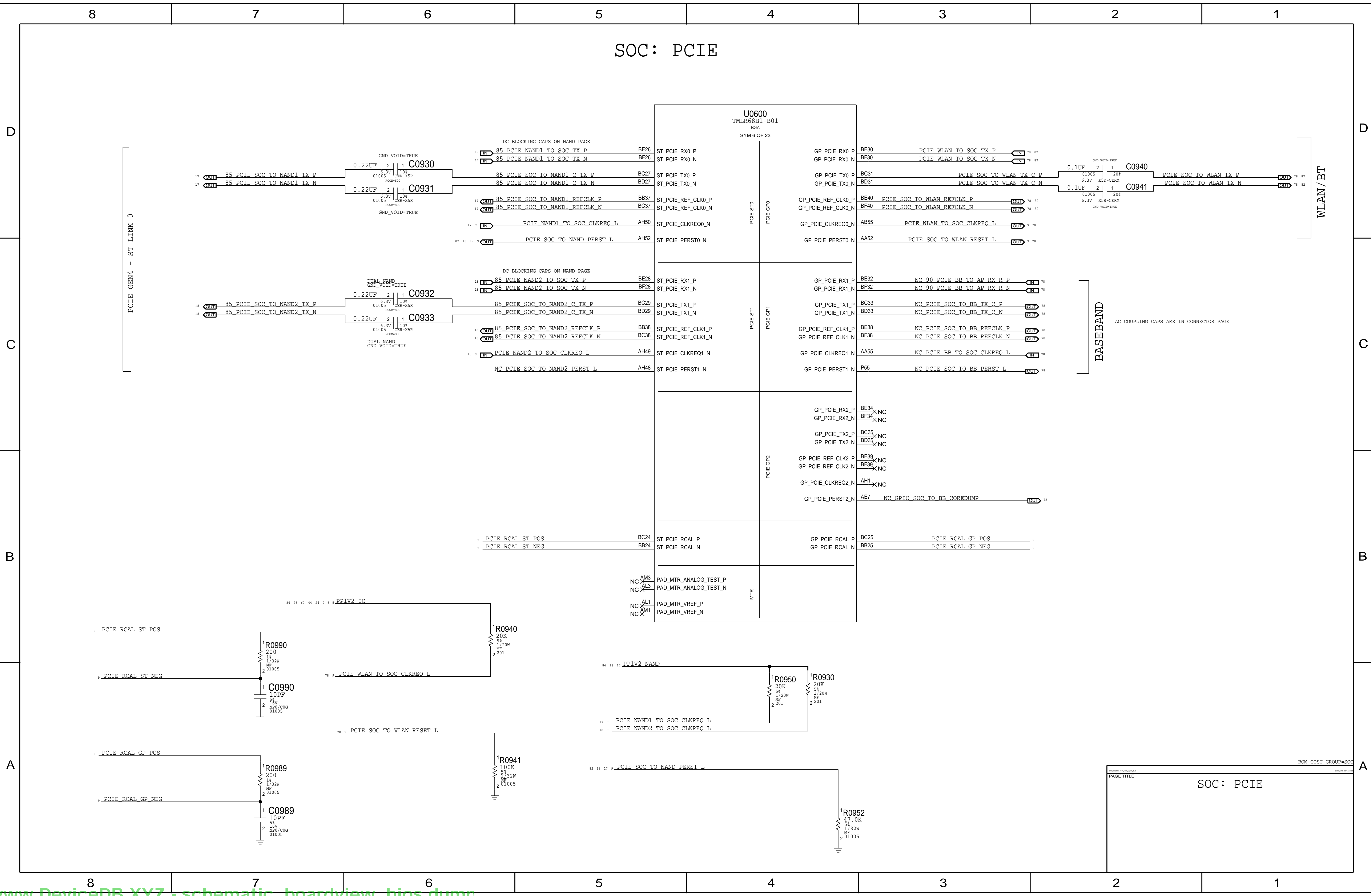


BOARD REVISION



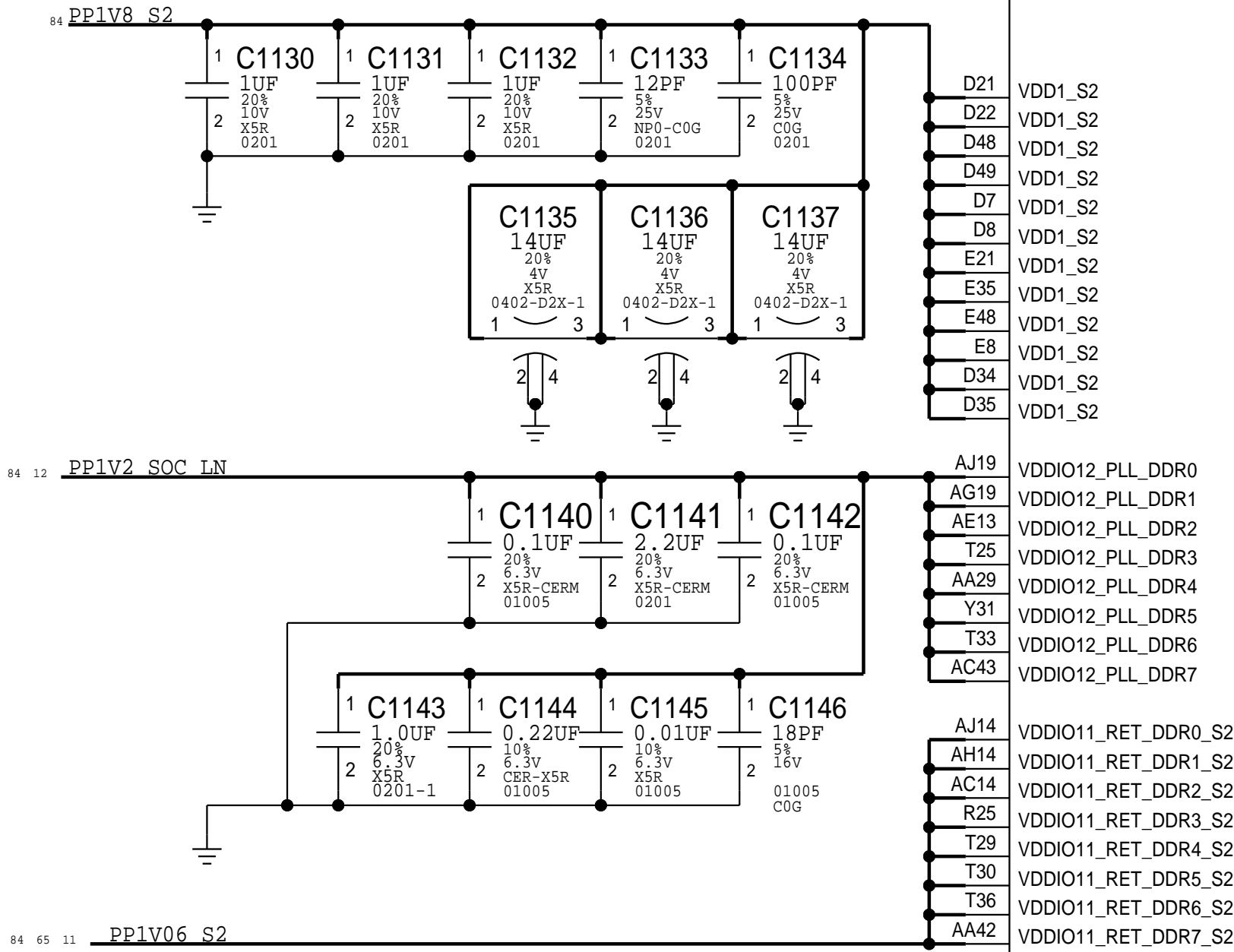
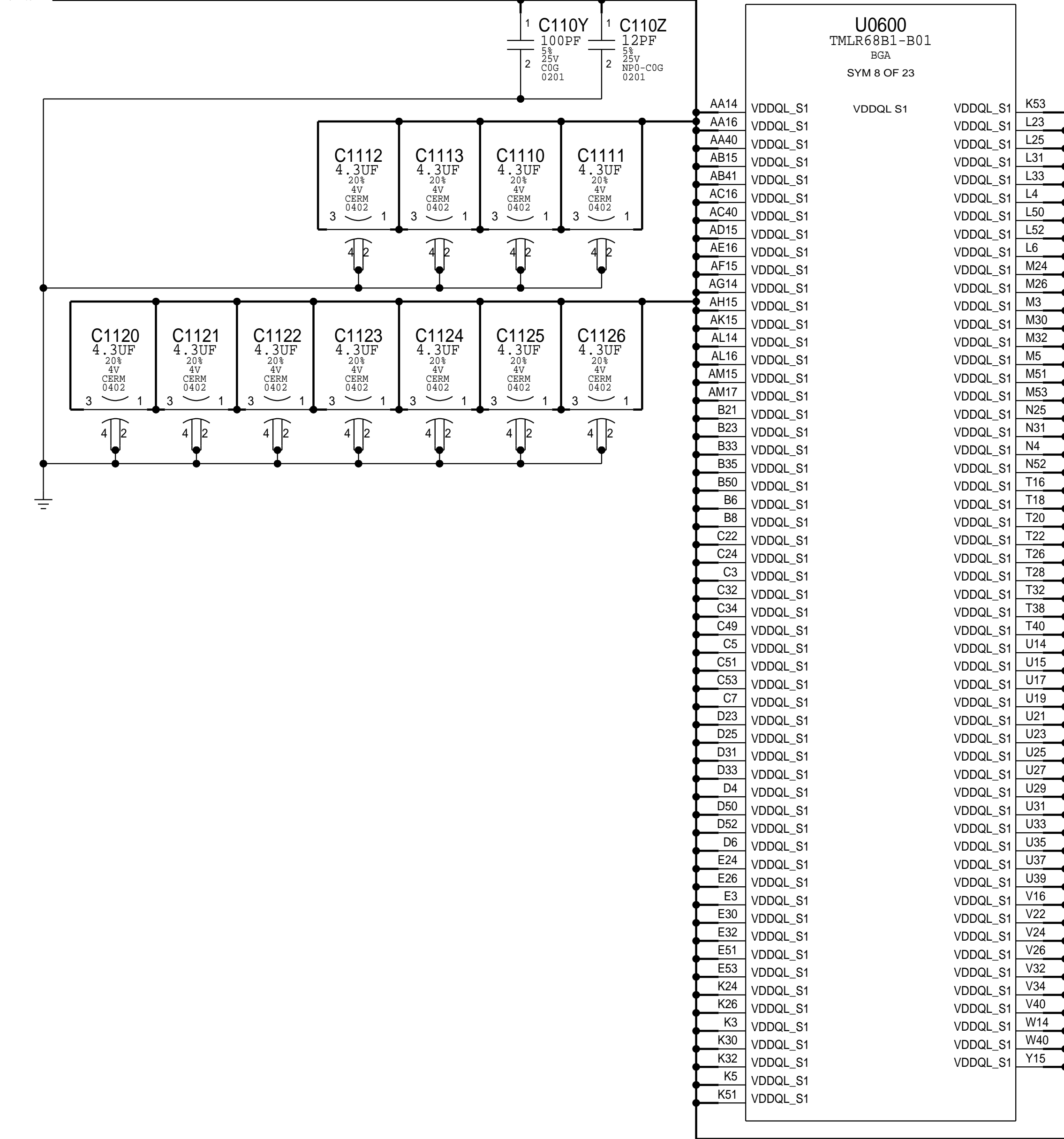




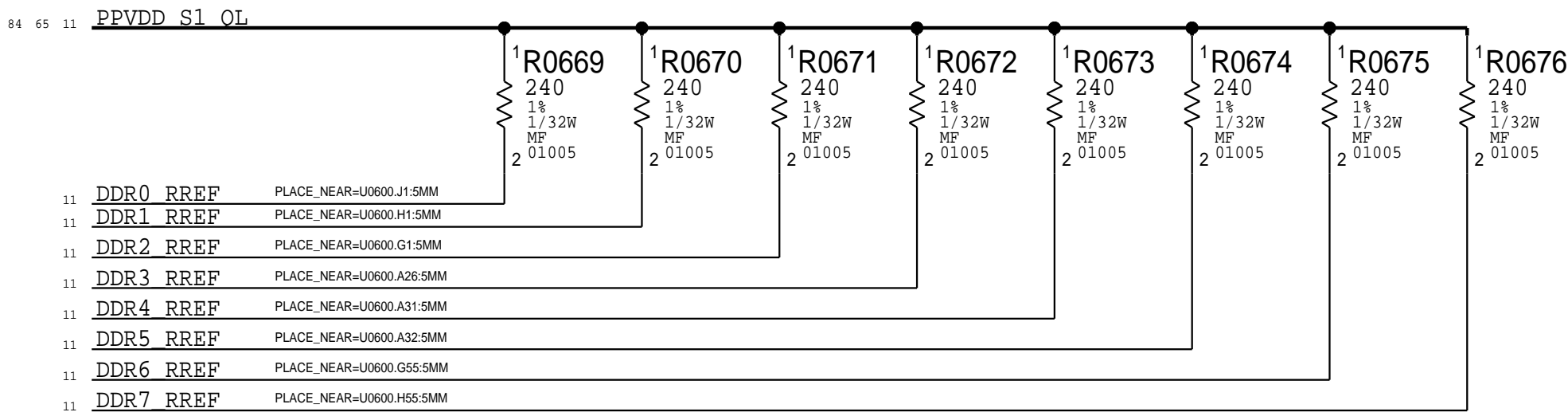
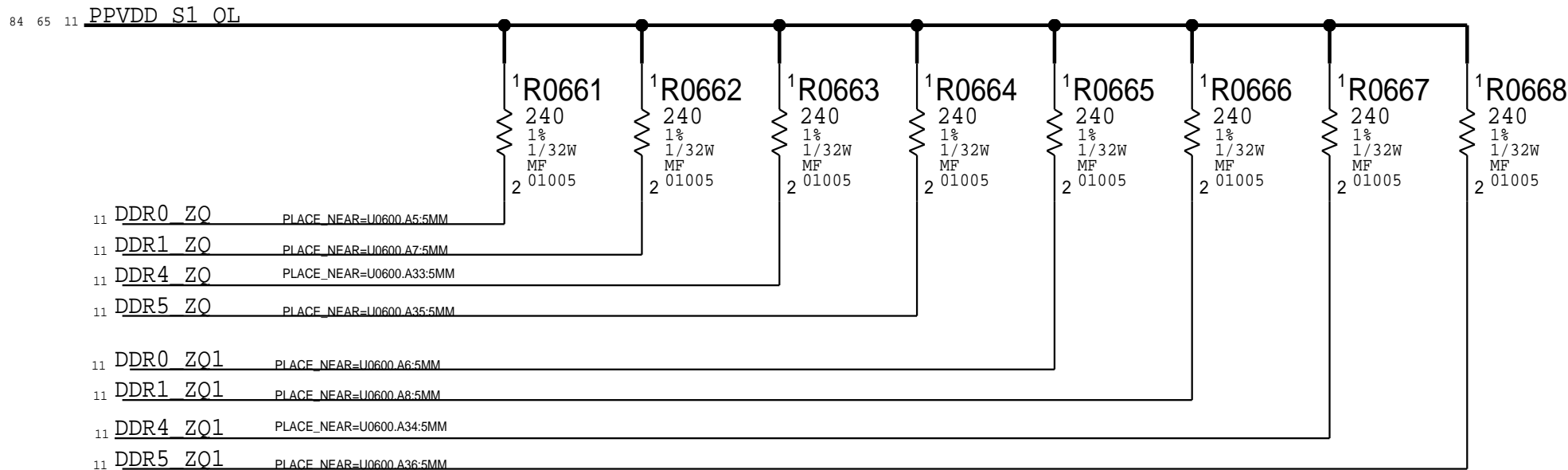


SOC: POWER (DDR)

84 65 11 PPVDD_S1_OL

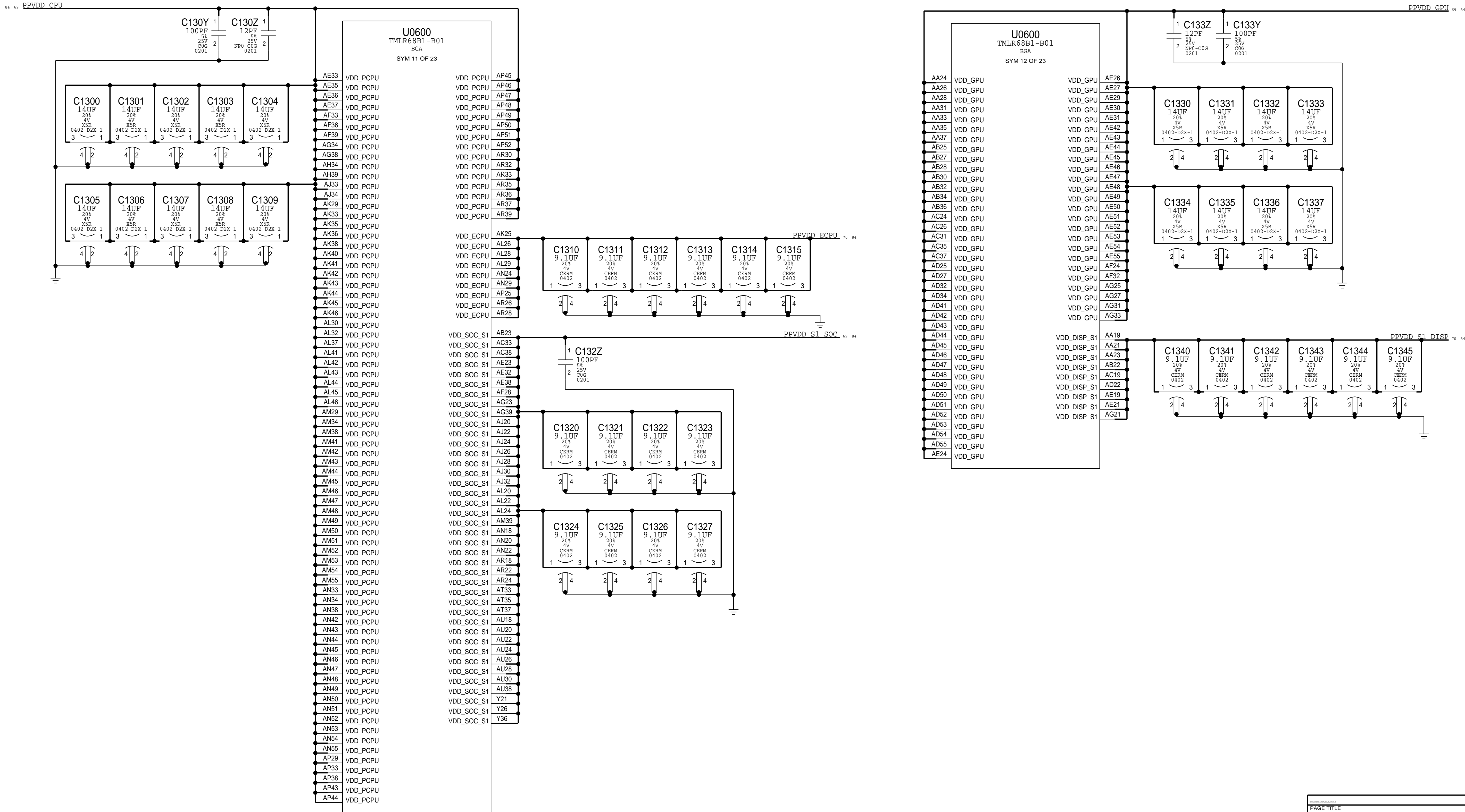


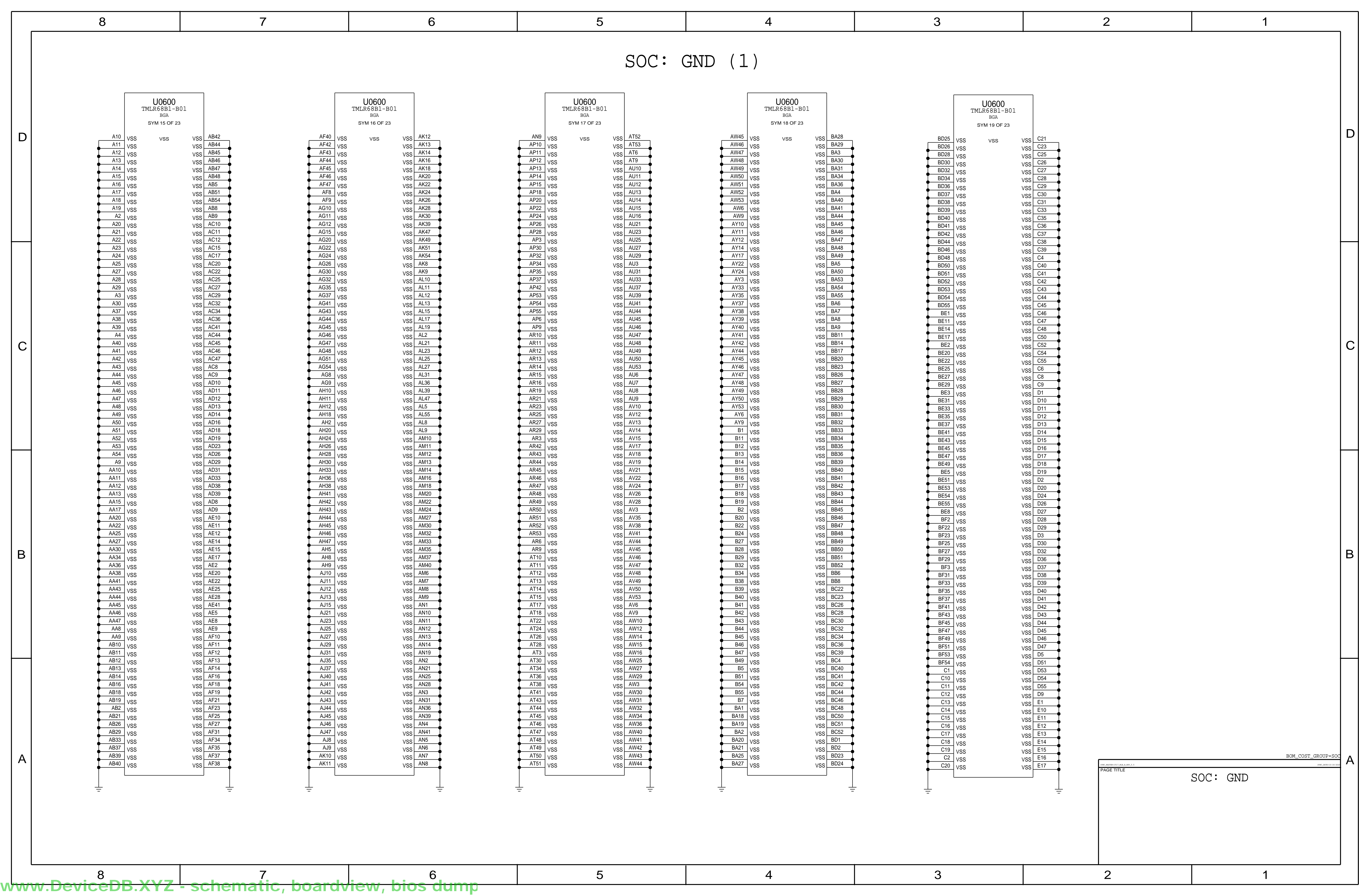
DDR0_RREF	J1	DDR0_RREF
DDR1_RREF	H1	DDR1_RREF
DDR2_RREF	G1	DDR2_RREF
DDR3_RREF	A26	DDR3_RREF
DDR4_RREF	A31	DDR4_RREF
DDR5_RREF	A32	DDR5_RREF
DDR6_RREF	G55	DDR6_RREF
DDR7_RREF	H55	DDR7_RREF
DDR0_ZQ	A5	DDR0_ZQ[0]
DDR1_ZQ	A7	DDR1_ZQ[0]
DDR4_ZQ	A33	DDR4_ZQ[0]
DDR5_ZQ	A35	DDR5_ZQ[0]
DDR0_ZQ1	A6	DDR0_ZQ[1]
DDR1_ZQ1	A8	DDR1_ZQ[1]
DDR4_ZQ1	A34	DDR4_ZQ[1]
DDR5_ZQ1	A36	DDR5_ZQ[1]



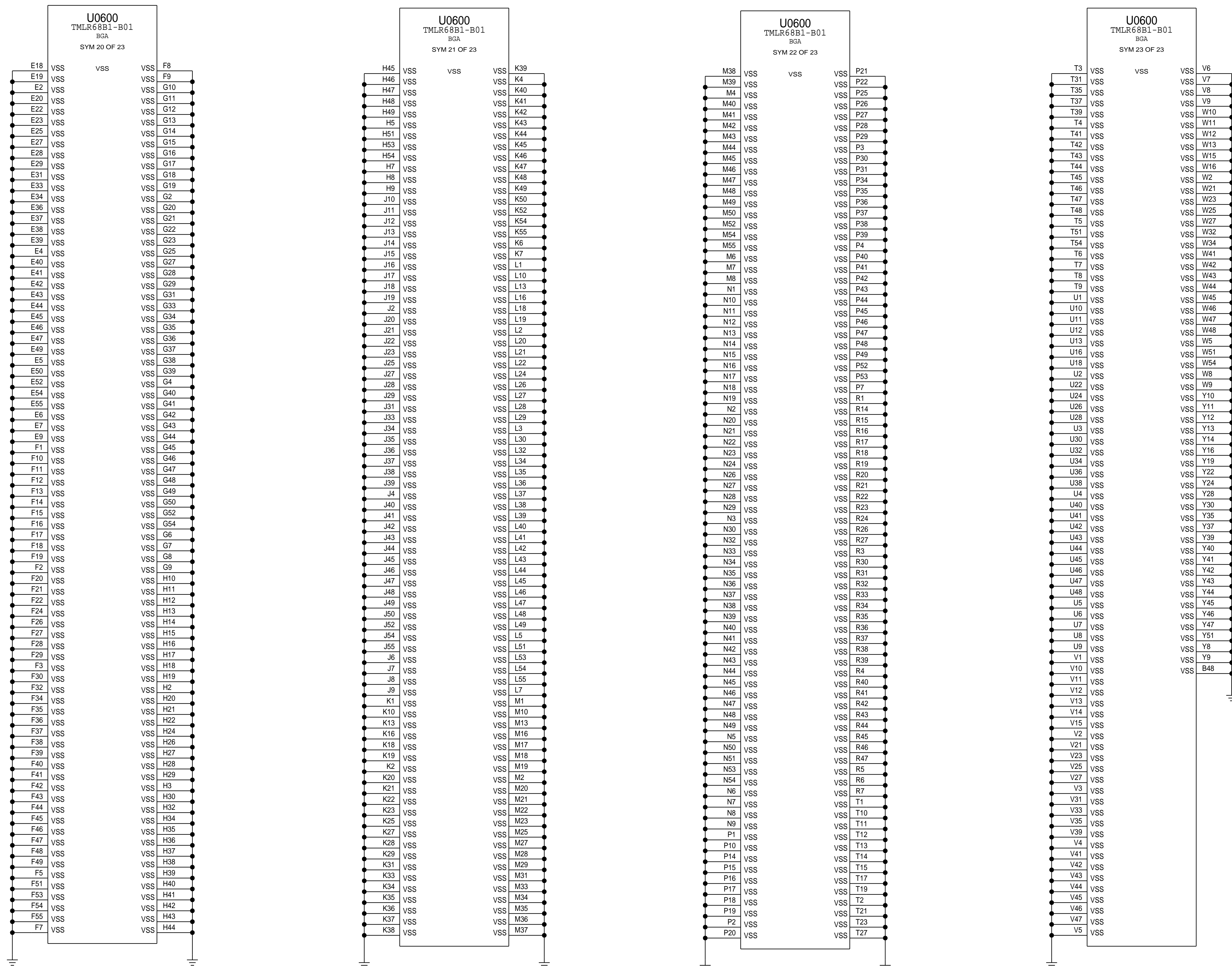
SOC: POWER (DDR,SRAM)

SOC: POWER (CPU, GPU)



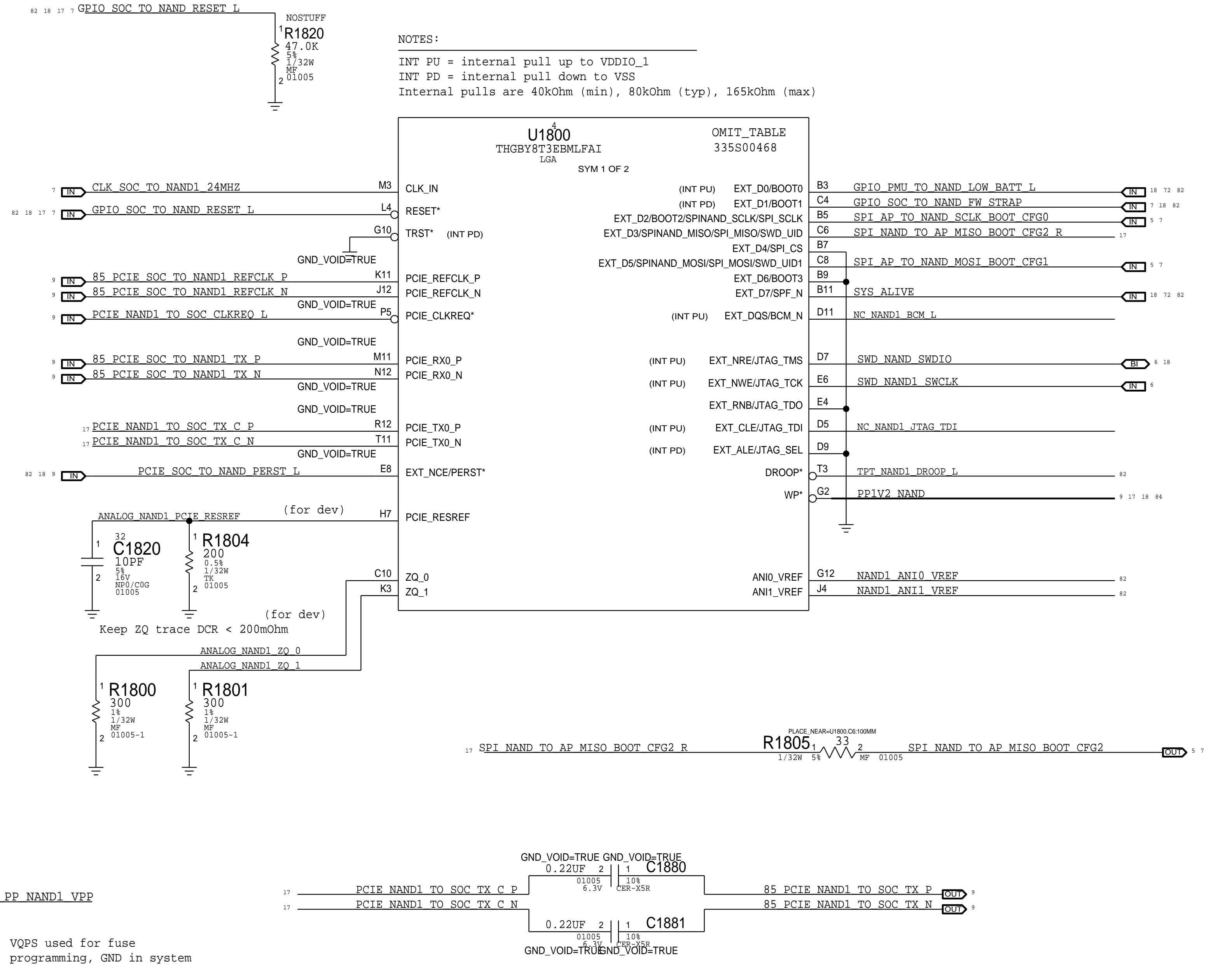
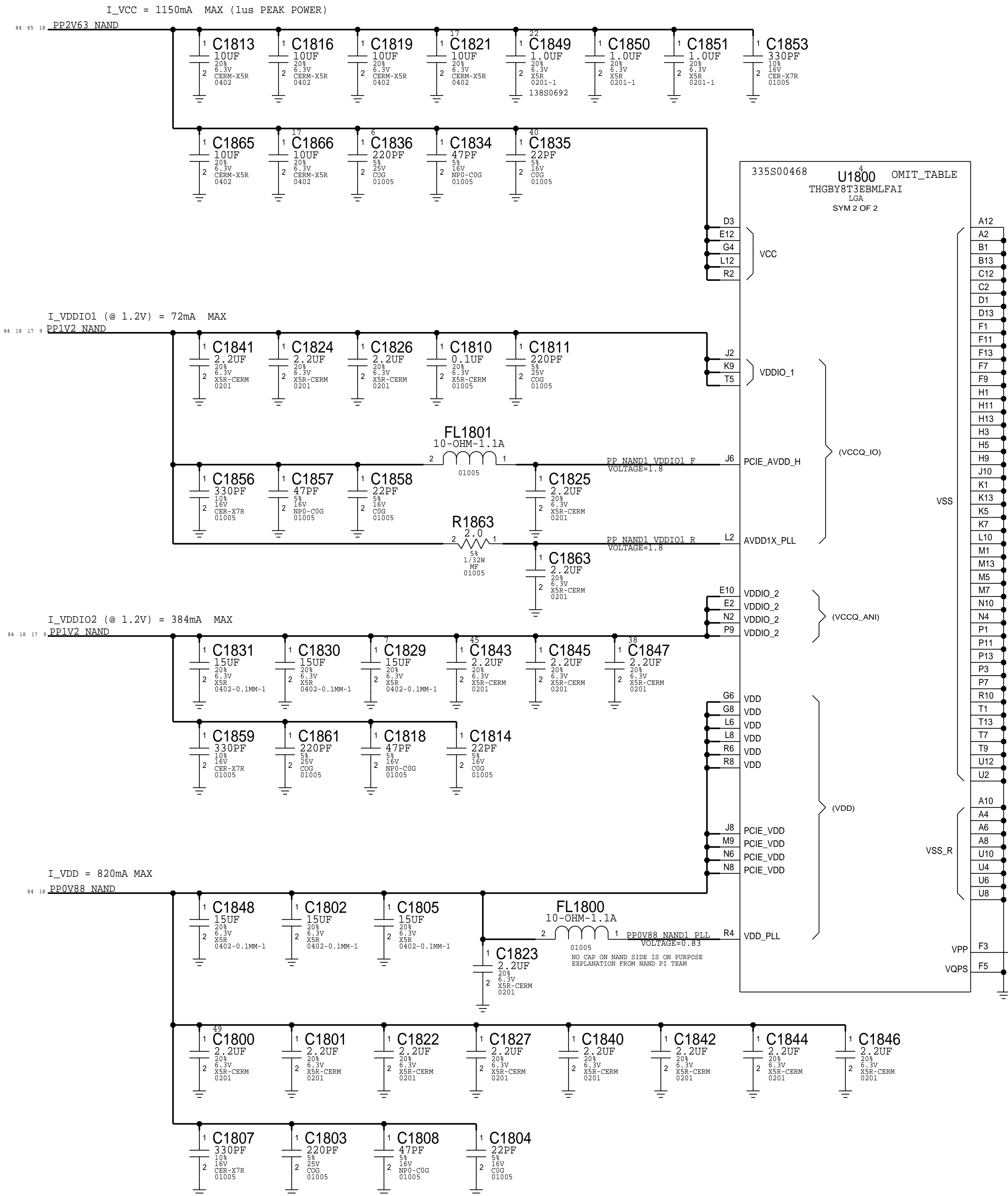


SOC: GND (2)



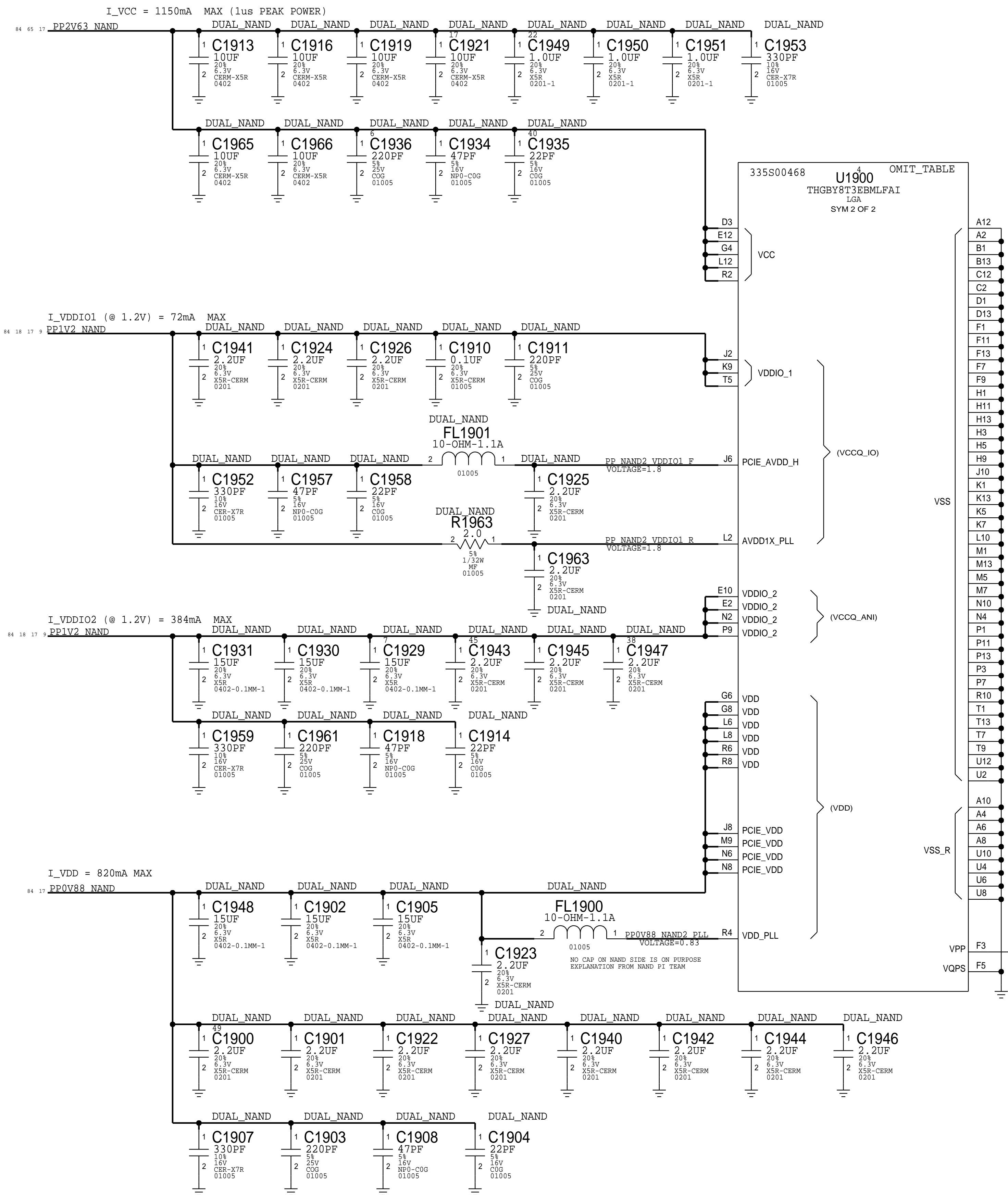
SOC: GND-2

S5E NAND 1



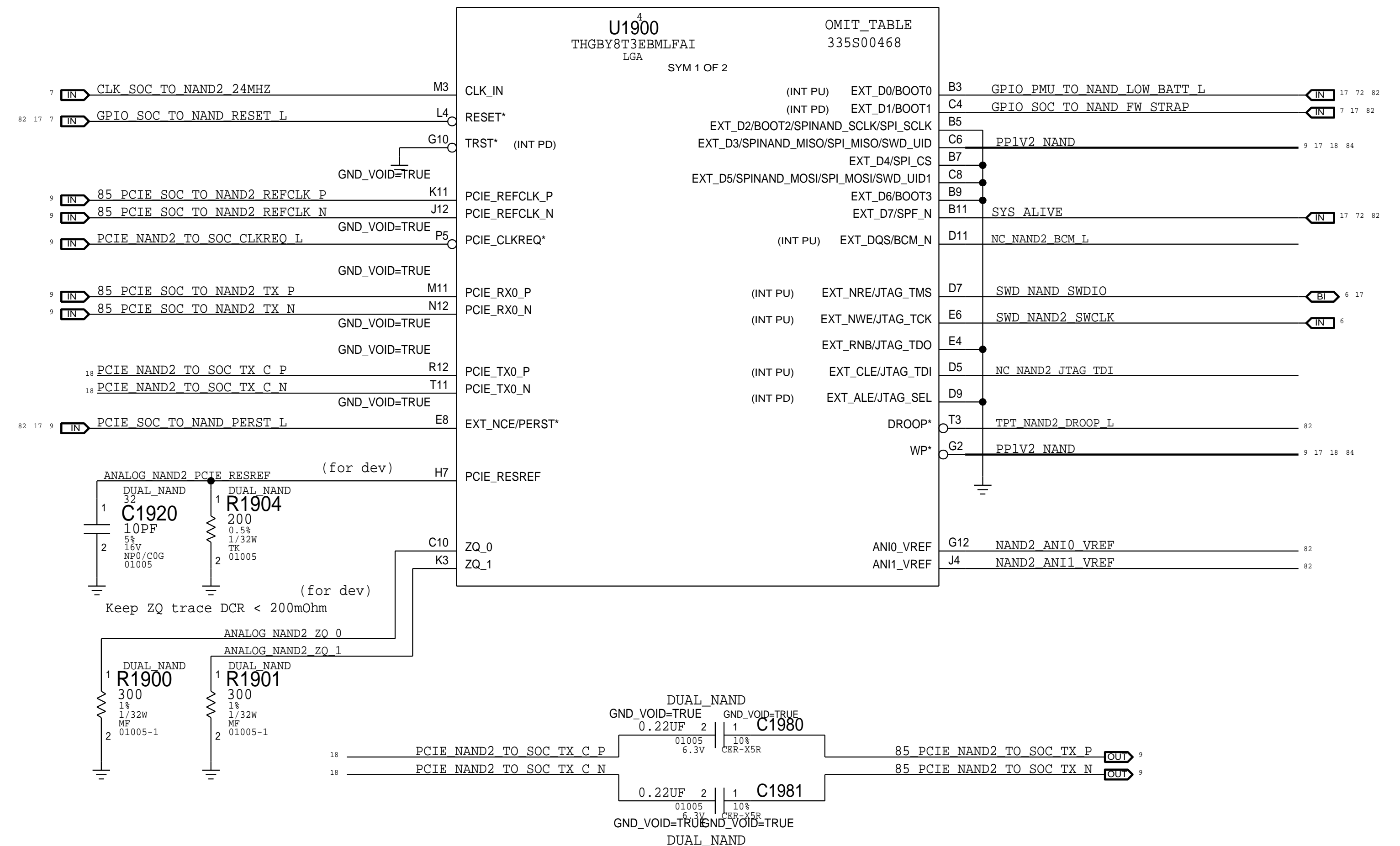
PAGE TITLE	NAND
------------	------

S5E NAND 2



NOTES:

INT PU = internal pull up to VDDIO_1
INT PD = internal pull down to VSS
Internal pulls are 40kOhm (min), 80kOhm (typ), 165kOhm (max)



VQPS used for fuse
programming, GND in system

FROM COST GROUP=NAND

PAGE TITLE	NAND
------------	------

D

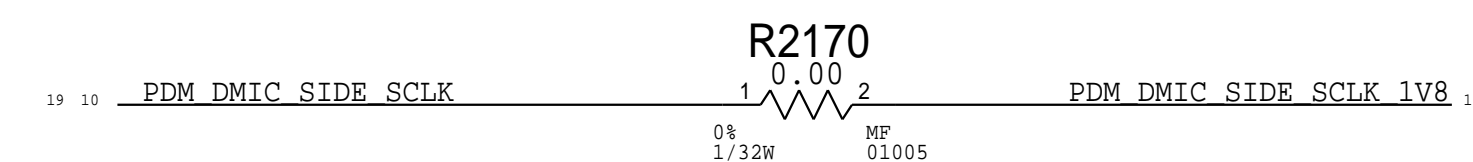
C

B



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
117S0161	1	0 OHMS,54,01005	FL2150		KOBOL:PRI
117S0161	1	0 OHMS,54,01005	FL2160		KOBOL:ALT

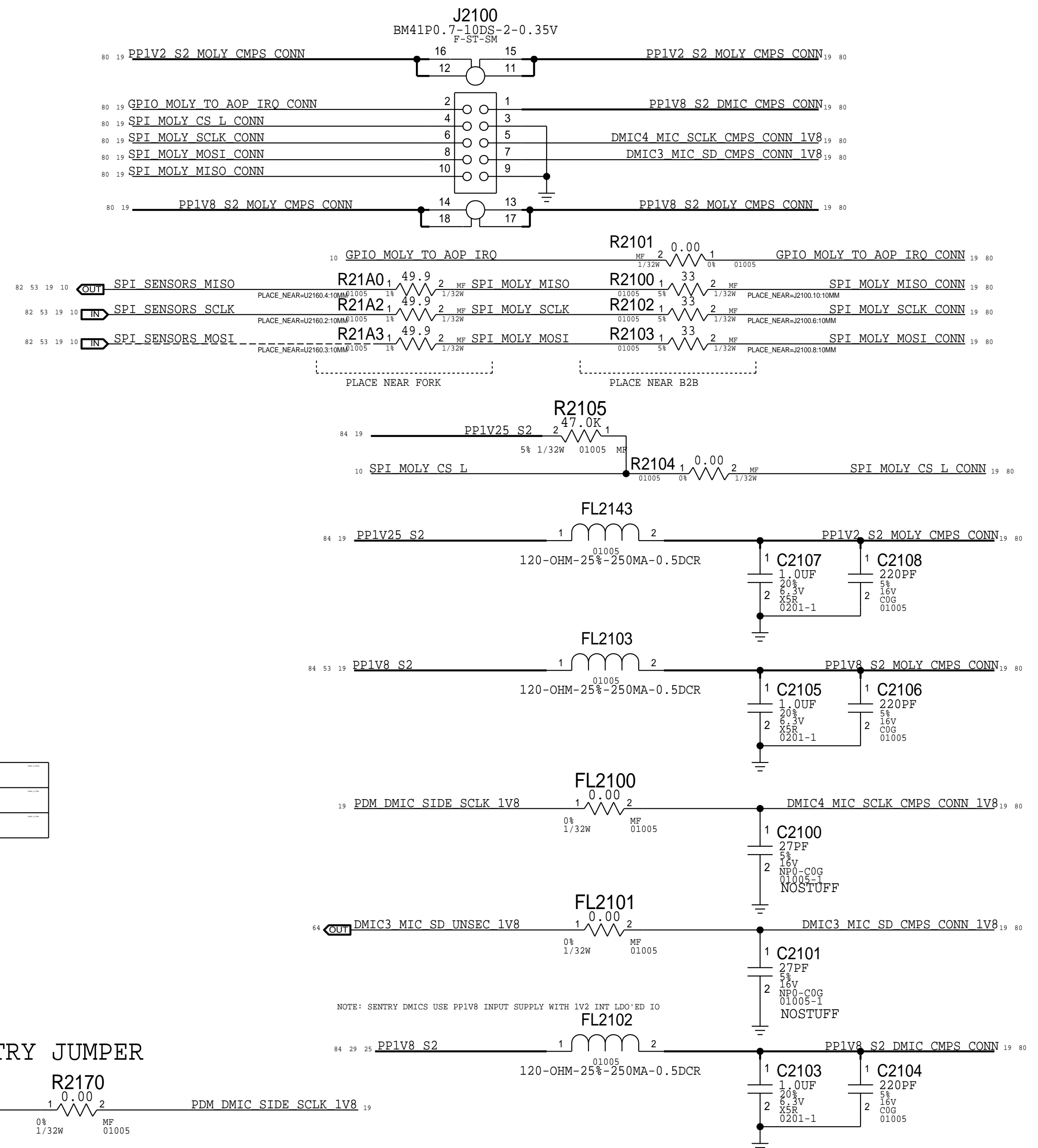
OMIT_TABLE



SENSOR: KOBOL, PHOS2, MOLY

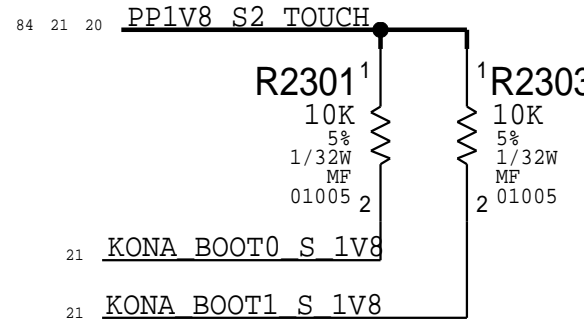
NOTE: PINOUT UPDATED PER J522 COMPASS_FLEX REV 0.3

MLB SIDE: 516S00176
FLEX SIDE: 516S00175



KONA: SLAVE

BOOT OPTION



SCORPIUS IS 1V8 ONLY, BUT AOP IS 1V2

GPI0 GRAPE TO SCORPIUS TIME SYNC 1V8

GPI0 KONA S TO SCORPIUS TIME SYNC AOP

SPI SOC TO KONA S MISO 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S CS 1V8 L

PP1V8 S2 TOUCH

LANAI M TO KONA S IPC1 1V8

LANAI M TO KONA S IPC2 1V8

KONA S TO LANAI M RESET DET 1V8 L

LANAI M TO KONA S TTW 1V8

SPI LANAI M TO KONA S CS 1V8 L

GPI0 DOMBRA BST FB CTRL 1V8

GPI0 DOMBRA BST FPMW 1V8

GPI0 KONA S DOMBRA BST EN 1V8

GPI012 KONA LDO ADJ 1V8

GPI013 KONA LDO EN 1V8

GPI0 GRAPE TO TCON FORCE PWM 1V8

TESTPOINT KONA S UART RX 1V8

TESTPOINT KONA S UART TX 1V8

SPI LANAI M TO KONA S MOSI 1V8

SPI LANAI M TO KONA S SCLK 1V8

SPI LANAI M TO KONA S CS 1V8 L

KONA S TO LANAI M INT 1V8 L

SPI LANAI M TO KONA S MISO 1V8

SPI SOC TO KONA S CS 1V8 L

GPI0 KONA S TO SOC IRQ 1V8 L

SPI SOC TO KONA S SCLK 1V8

SPI SOC TO KONA S MOSI 1V8

H_SDI

H_SDO

H_CS*

H_ALT_CS*

I2C_SCL

I2C_SDA

KMSI MOSI 1V8

KMSI MISO 1V8

KMSI_STRB_OUT 1V8

KMSI_STRB_IN 1V8

PSE_SYNC 1V8

BOOST_ATEST

BOOST_FBIN

BOOST_ISENSE

BOOST_NGATE

BOOST_VBAT

BOOST_VBAT_EN

JTAG_RTCK

JTAG_TCK

JTAG_TMS

JTAG_TDI

JTAG_TDO

JTAG_TRST*

JTAG_SRST*

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

RESET*

TEST_MODE

KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

KONA S TEST MODE

KONA_BOOT0_S_1V8

KONA_BOOT1_S_1V8

LANAI KONA BGBIAS 1V8

XTALN

XTALP

XTAL_O_CLK_EXT

IFO_CLK_EXT

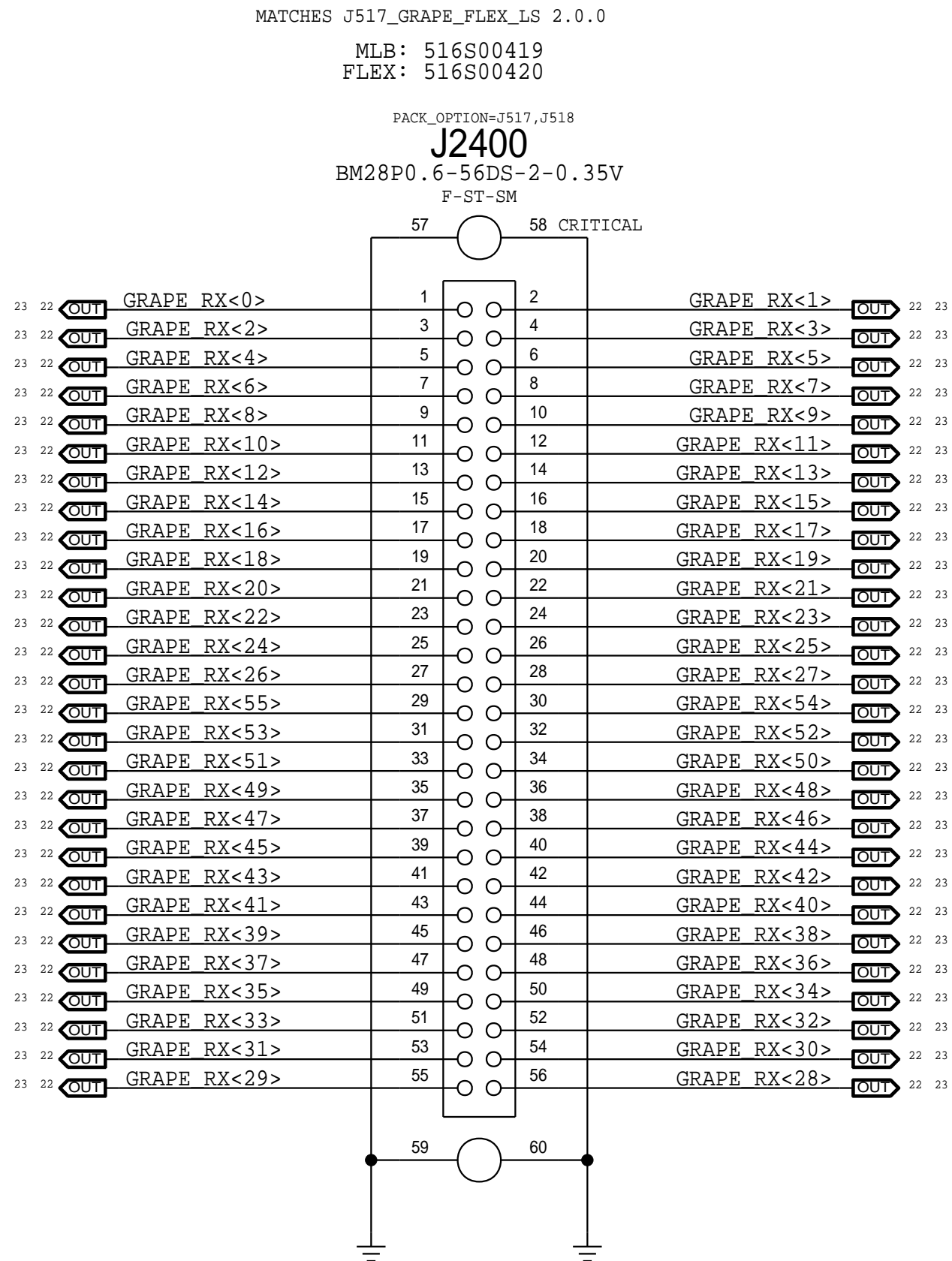
RESET*

TEST_MODE

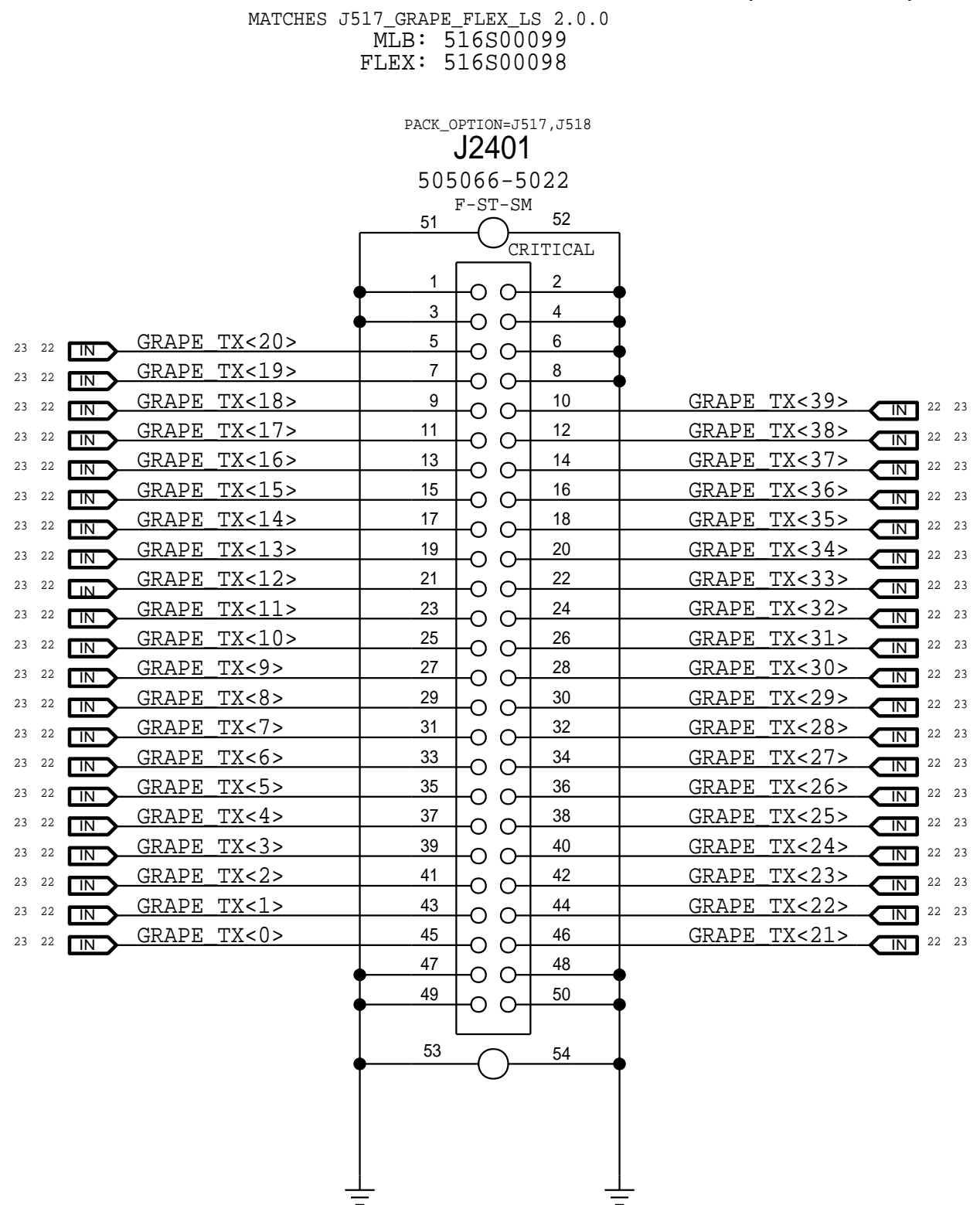
KONA S TEST MODE

GPI0 SOC TO KONA RESET 1V8 L

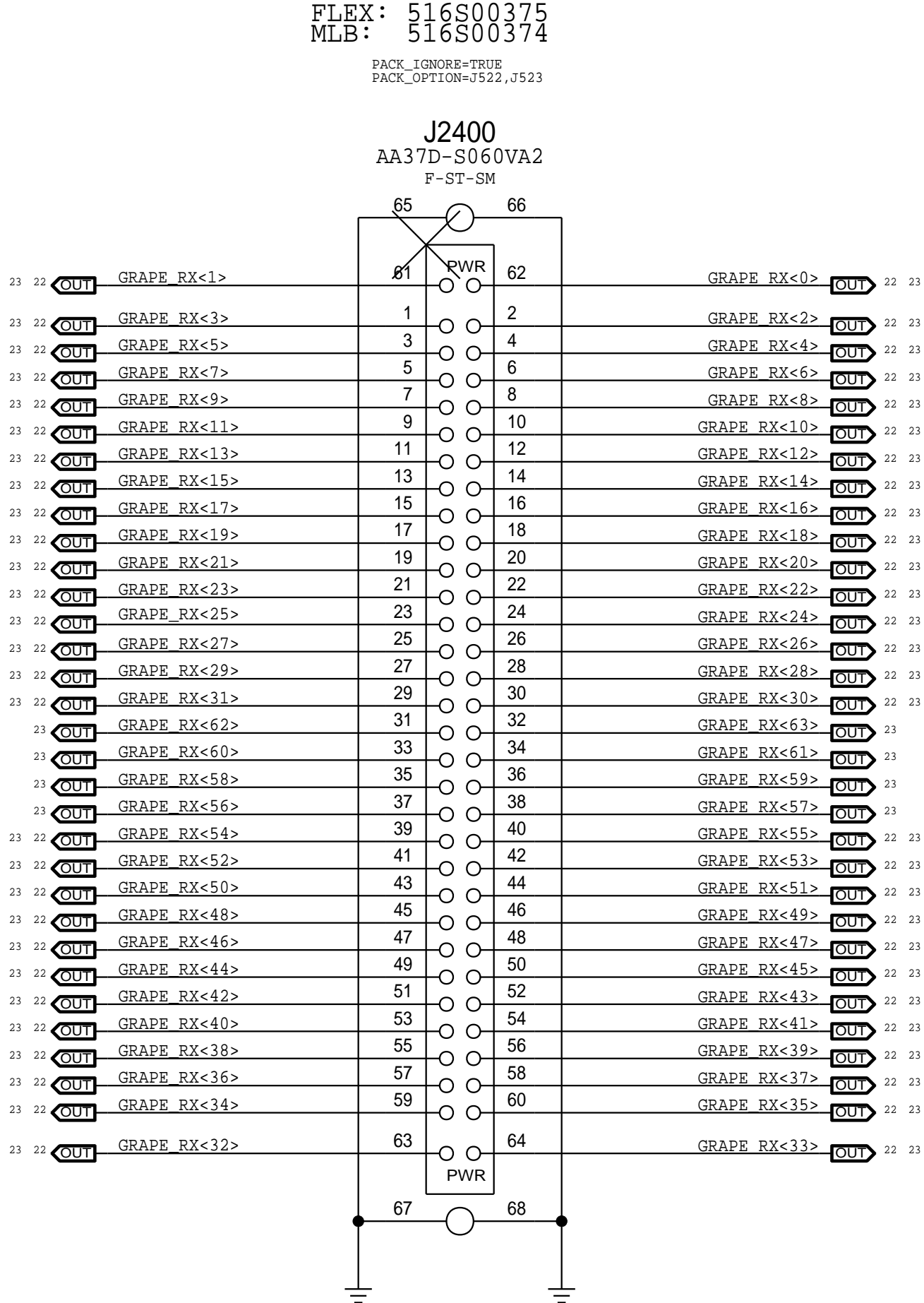
J517 TOUCH FLEX CONNECTOR (SENSE)



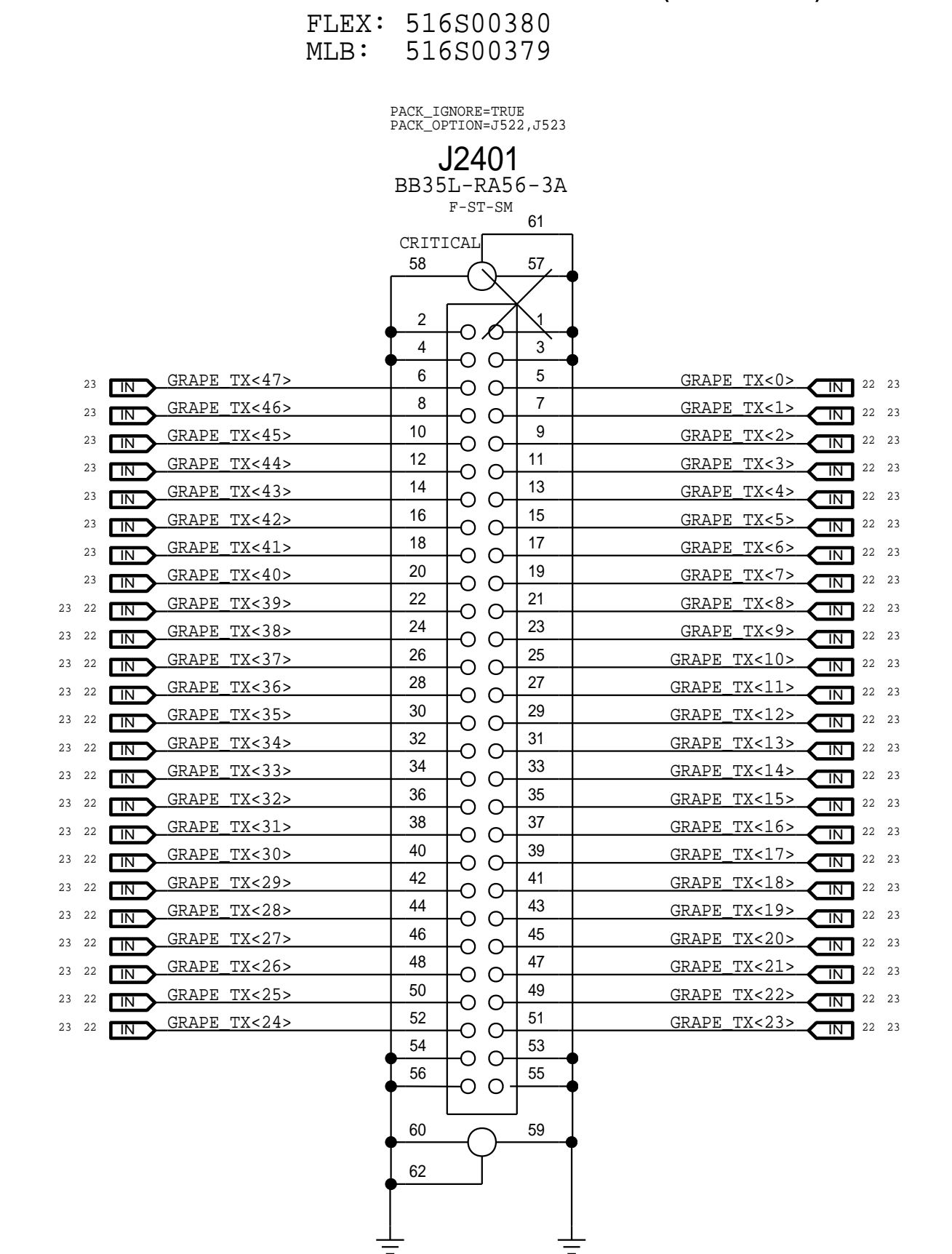
J517 TOUCH FLEX CONNECTOR (DRIVE)



J522 TOUCH FLEX CONNECTOR (SENSE)

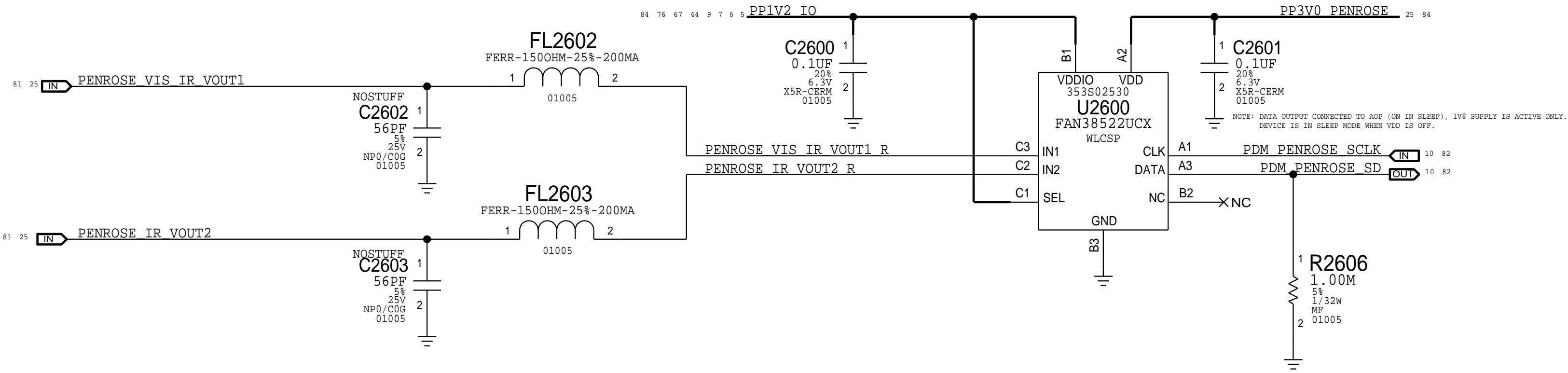


J522 TOUCH FLEX CONNECTOR (DRIVE)



8 7 6

PENROSE ADC (FAN)



BOM_COST_GROUP=CAMERA

CAMERA: PENROSE ADC

D

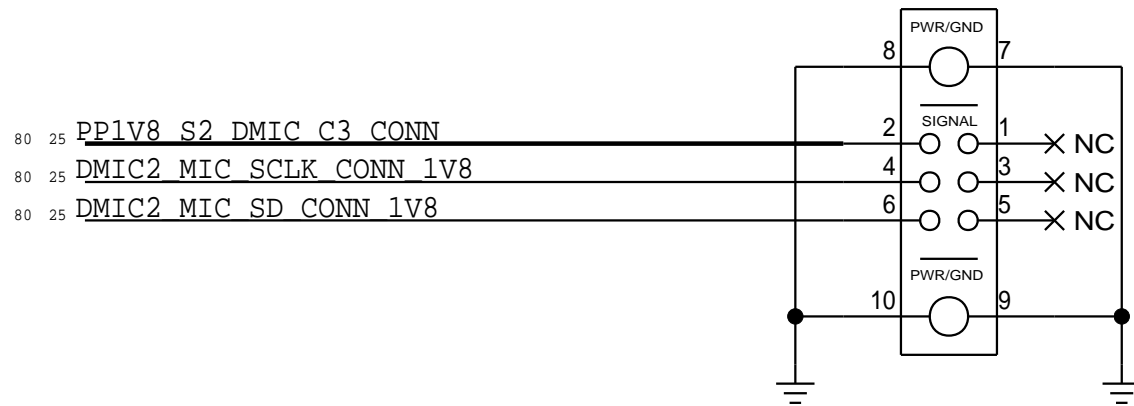
C

B

A

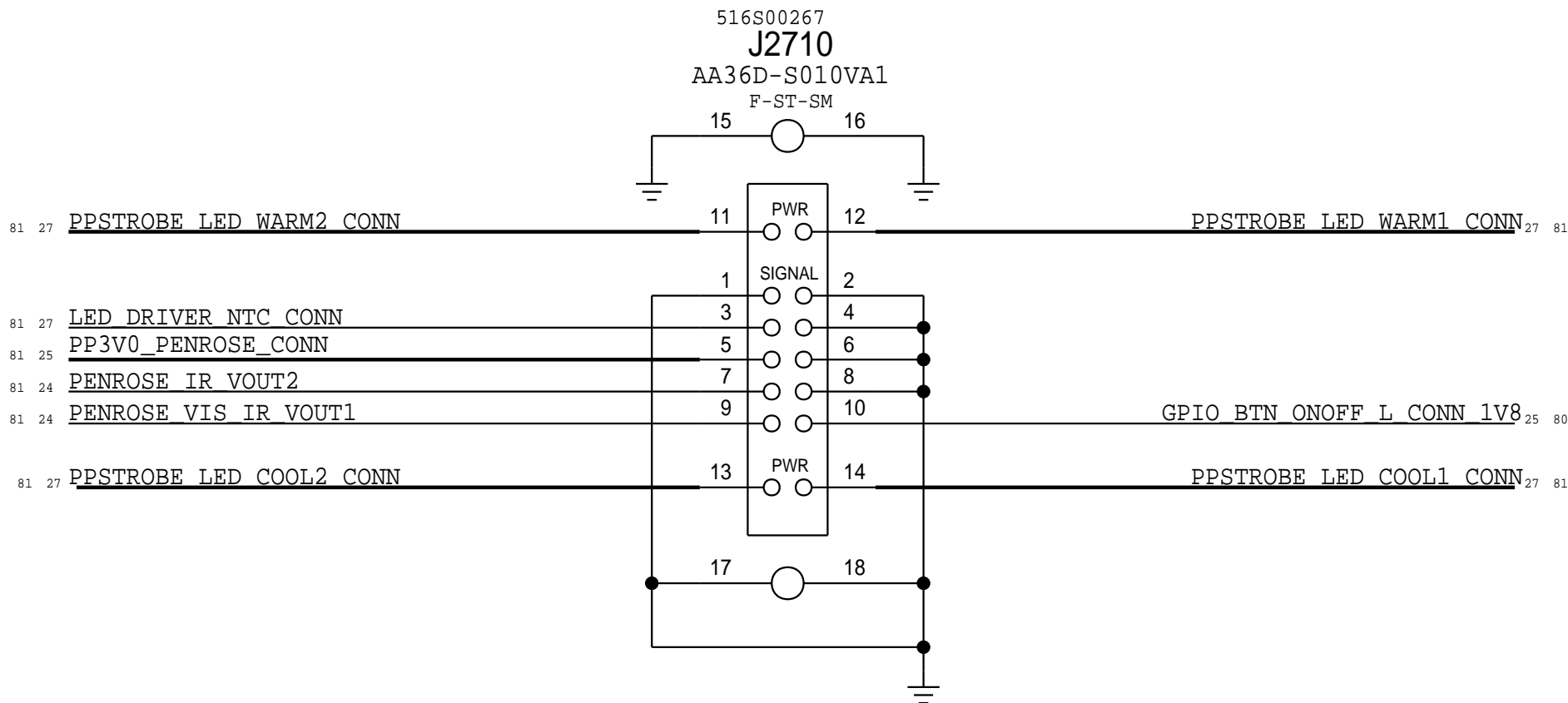
BACK DMIC FLEX

MLB APN: 516S00186
FLEX APN: 516S00185
516S00186
J2720
BM28P0.6-6DS/2-0.35V
F-ST-SM



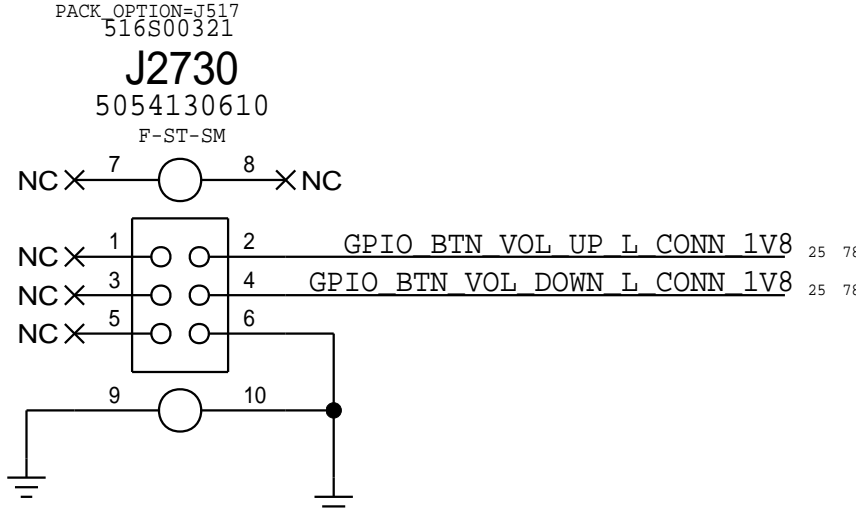
HYDRA STROBE FLEX B2B

MLB APN: 516S00267
FLEX APN: 516S00268



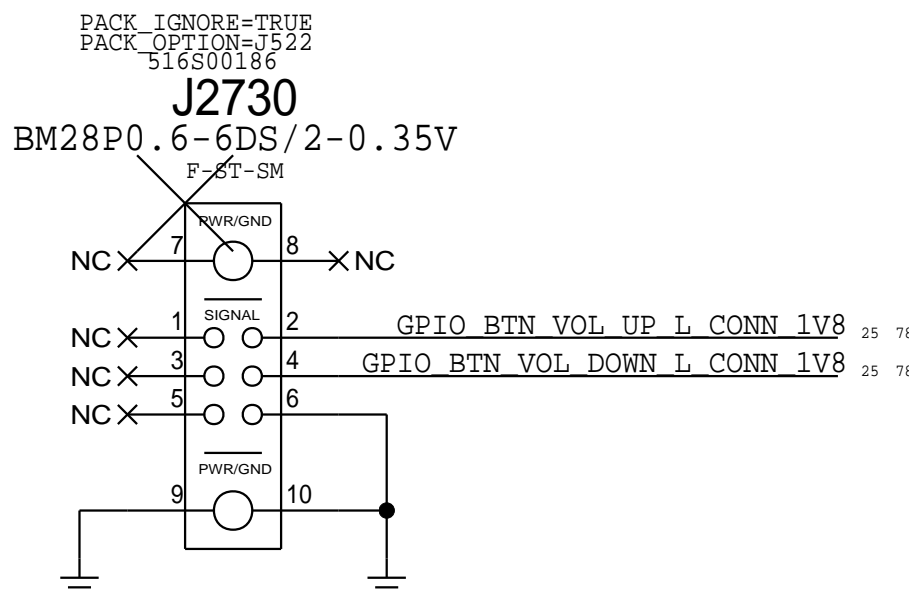
J51X VOLUME BUTTON FLEX B2B

MLB APN: 516S00321
FLEX APN: 516S00322

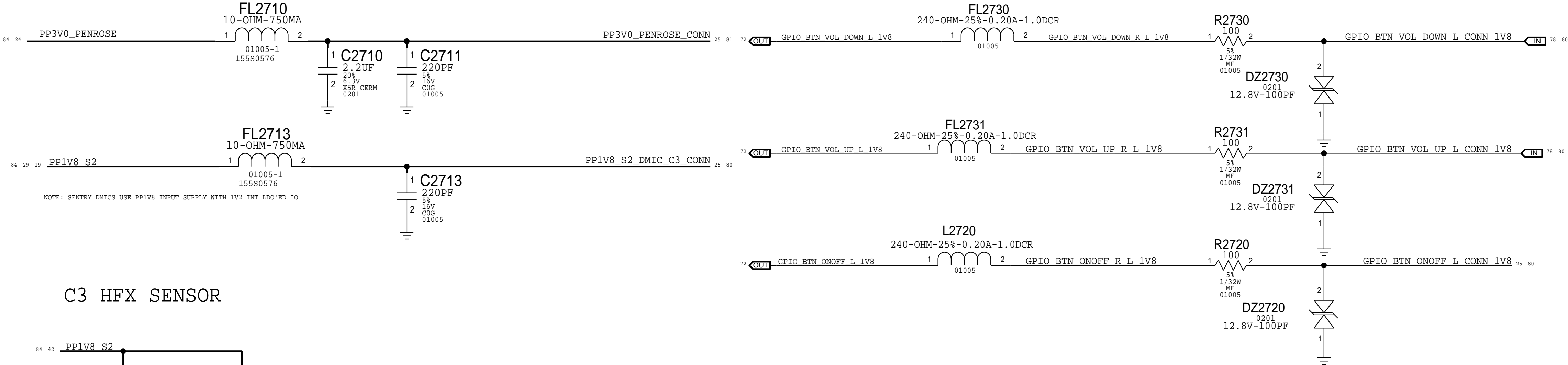


J52X VOLUME BUTTON FLEX B2B

MLB APN: 516S00186
FLEX APN: 516S00185



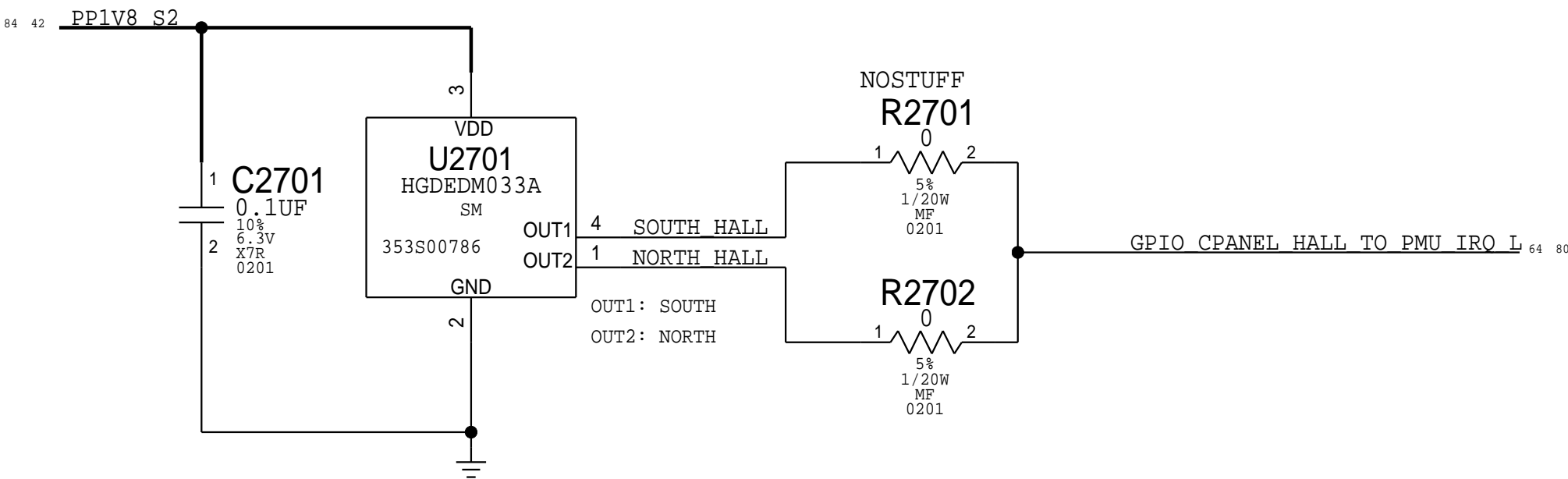
BUTTON FILTERS/ESD



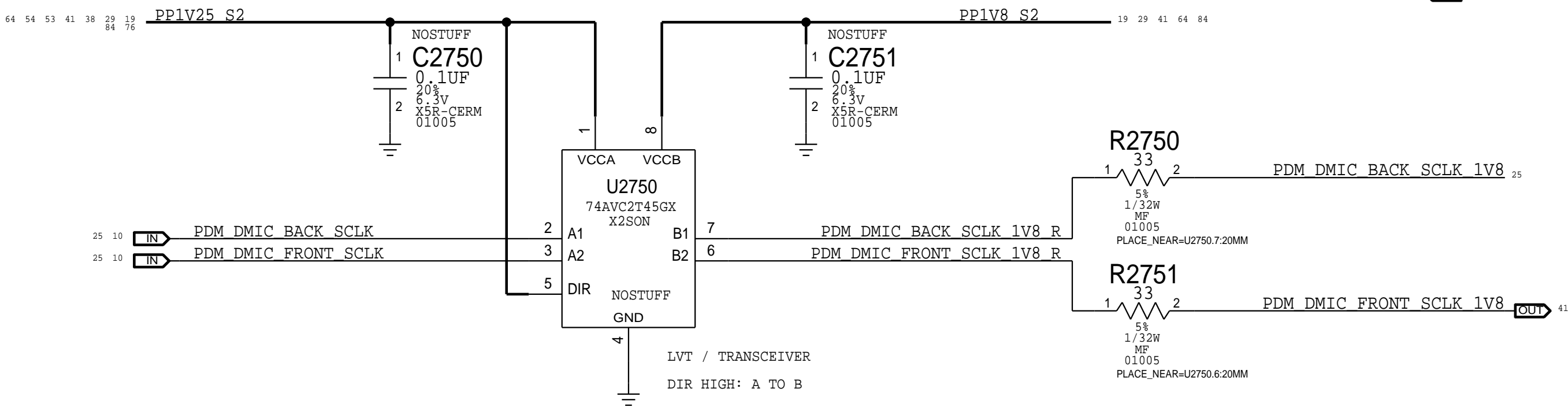
RFFE FILTERS

NOTE: RFFE FILTERS NOW ON BB PAGES

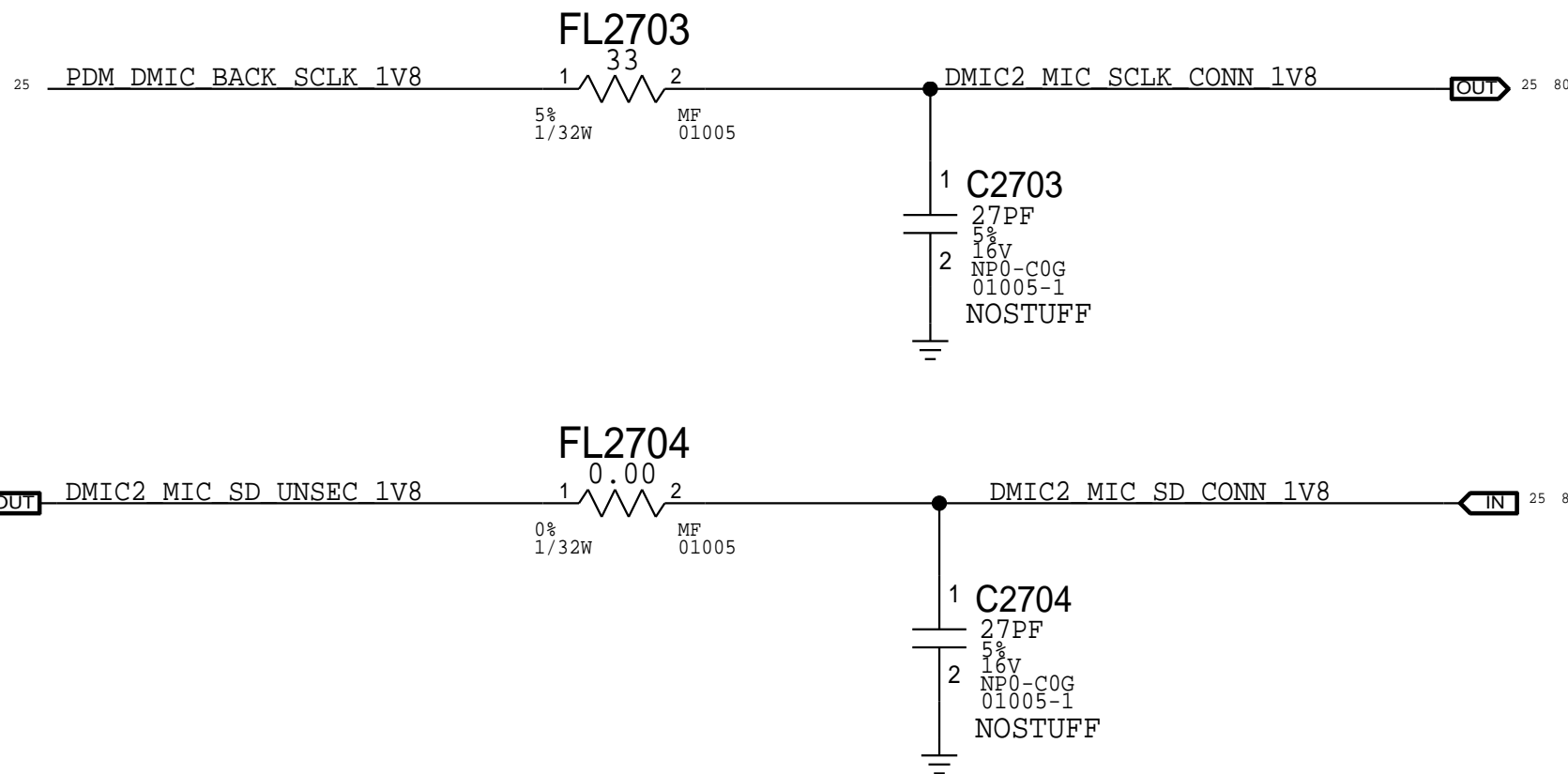
C3 HFX SENSOR



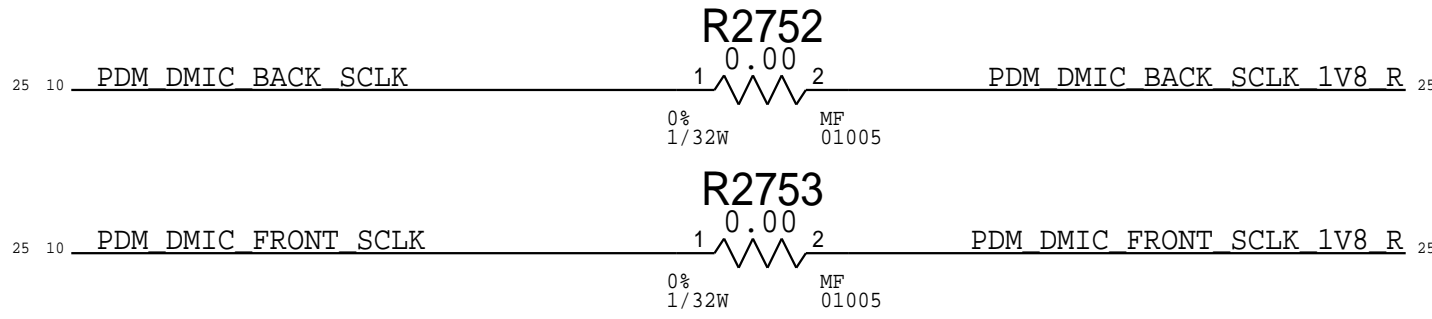
DMIC CLOCK LVT FOR FRONT AND BACK CLK



MIC#4 FILTERS



SENTRY JUMPERS



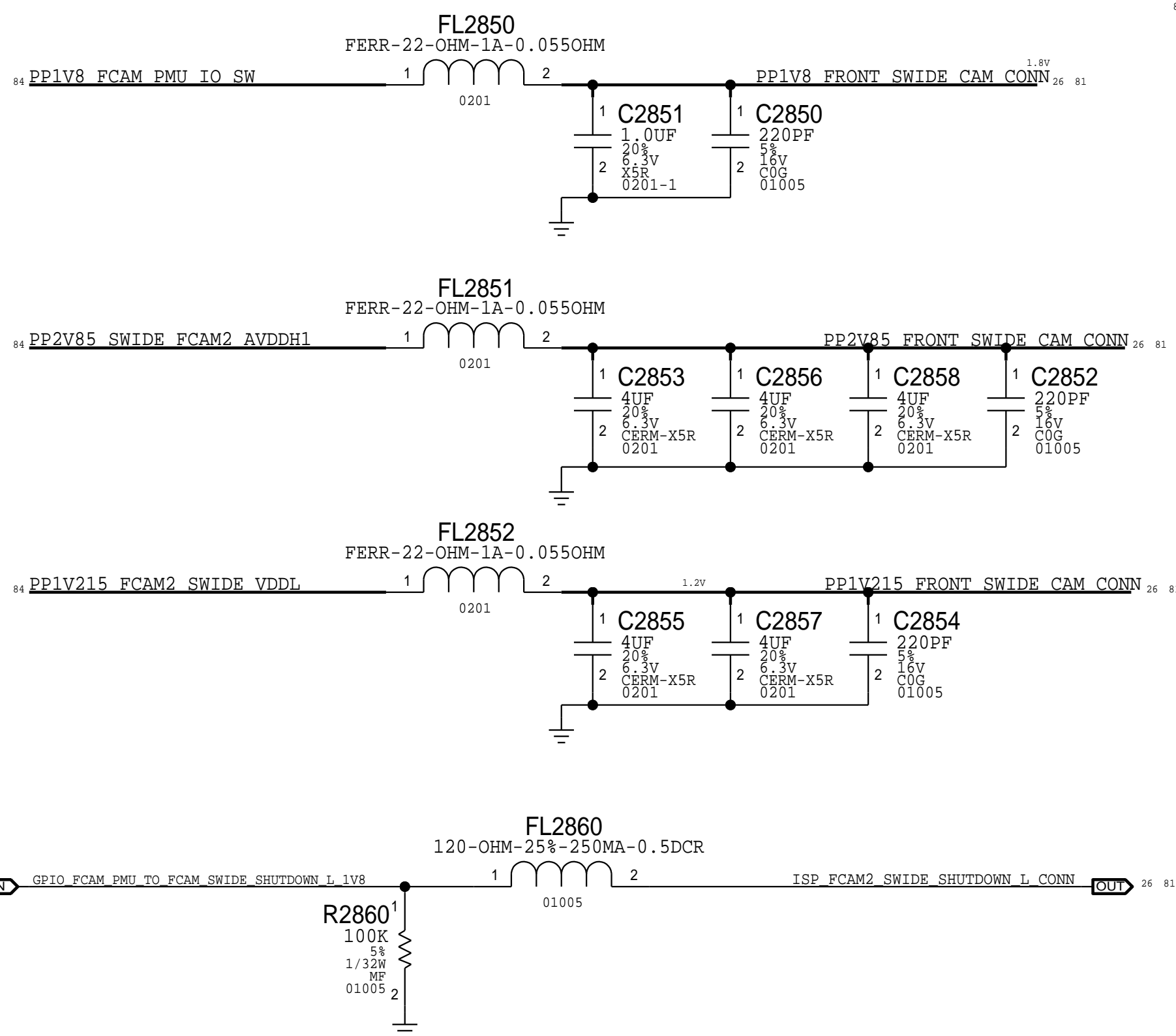
PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
155S00097	155S00018	FL2723,FL2725	FERR 80OHM 500MA 0.18DCR 0201	
155S0664	155S00018	FL2723,FL2725	FERR 80OHM 500MA 0.18DCR 0201	

CAMERA: B2B STROBE & MISC

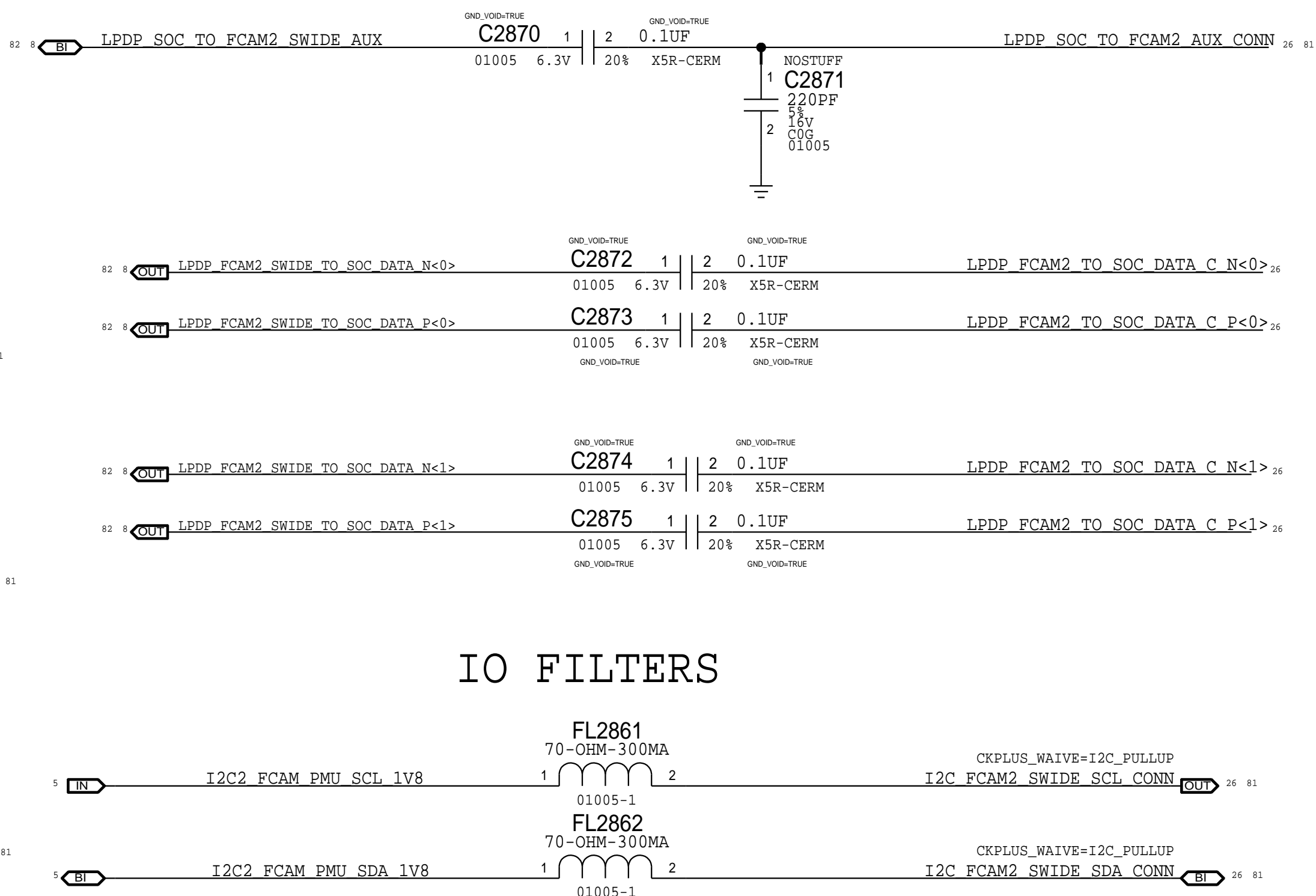
FRONT SWIDE CAMERA

LPDP AC COUPLING CAPS

POWER FILTERS

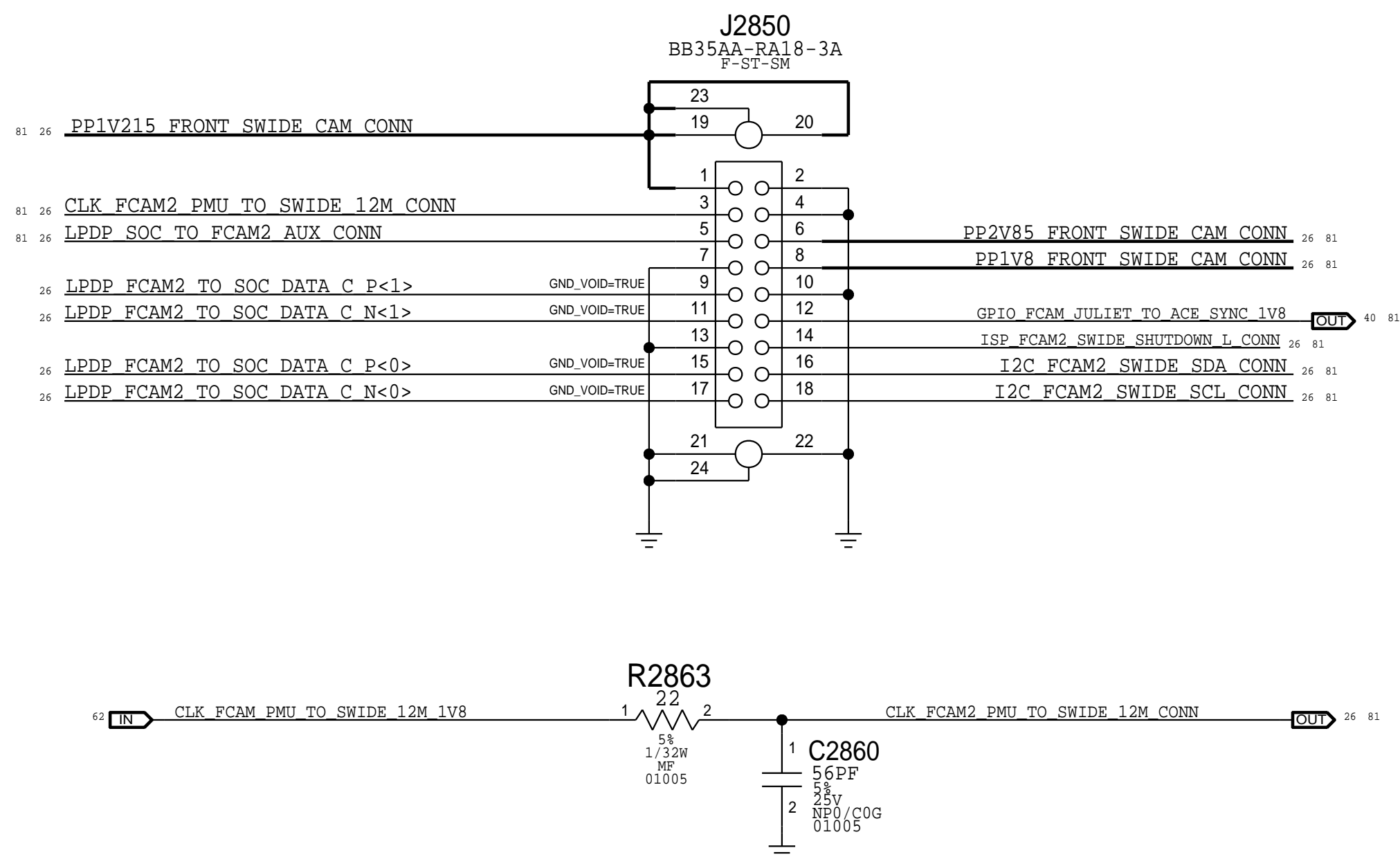


IO FILTERS



FRONT SWIDE CAM CONN

FLEX SIDE: 516S00396
MLB SIDE: 516S00395



BOM_COST_GROUP=CAMERA

PAGE TITLE	CAMERA: B2B FRONT
------------	-------------------

D

C

B

A

D

C

B

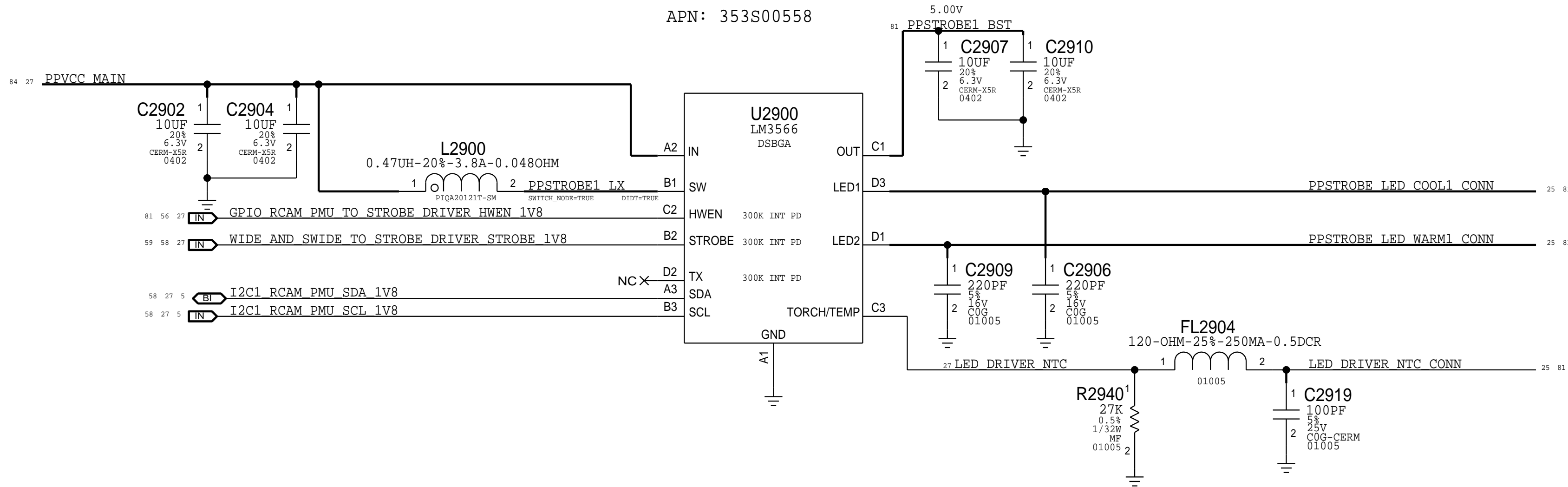
A

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0875	138S0678		C2902, ETC	SDA:1//PROBLEM/26929420
152S00121	152S00081		L2900, L2950	0.47UH 3.8A 2012 TY

STROBE CIRCUITRY

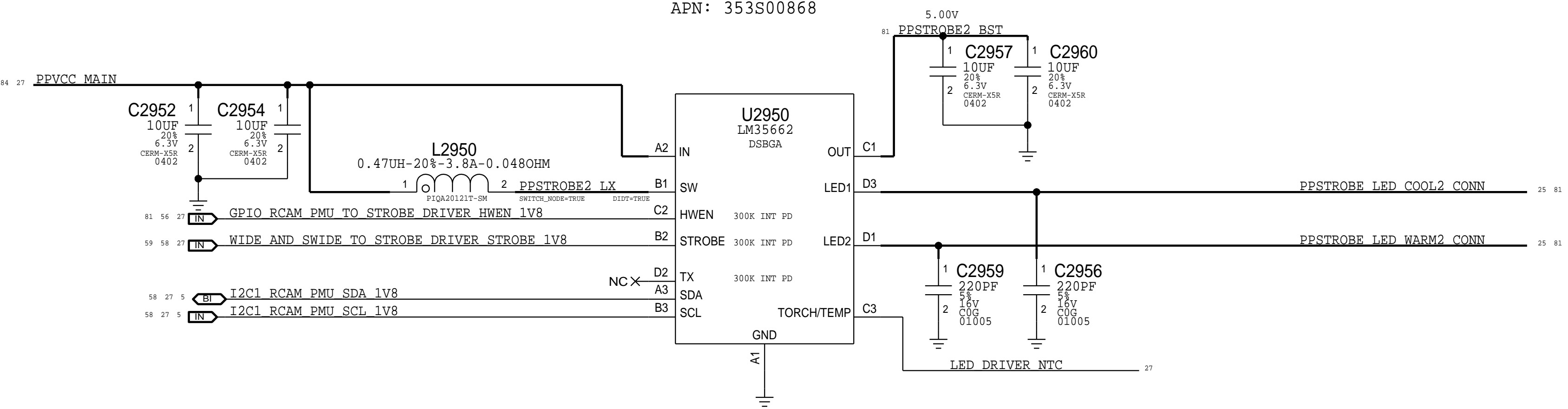
LED DRIVER 1

APN: 353S00558



LED DRIVER 2

APN: 353S00868



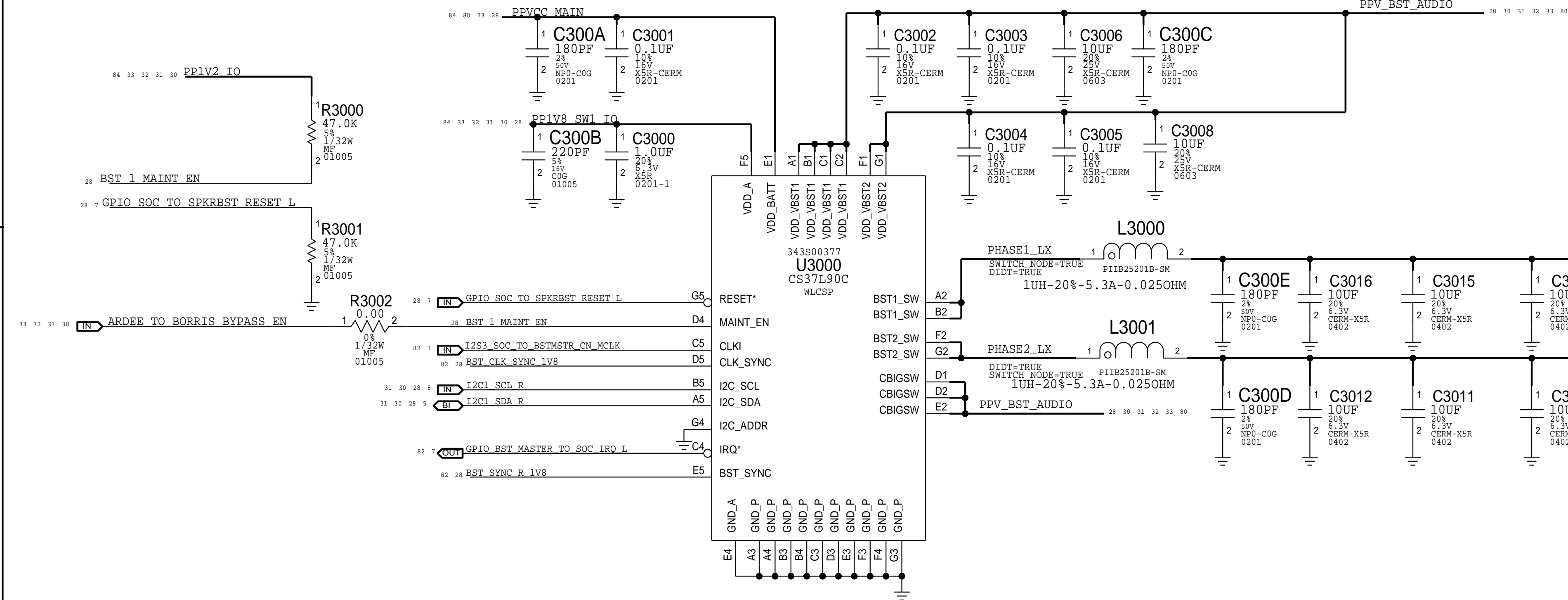
BOM_COST_GROUP=CAMERA

PAGE TITLE

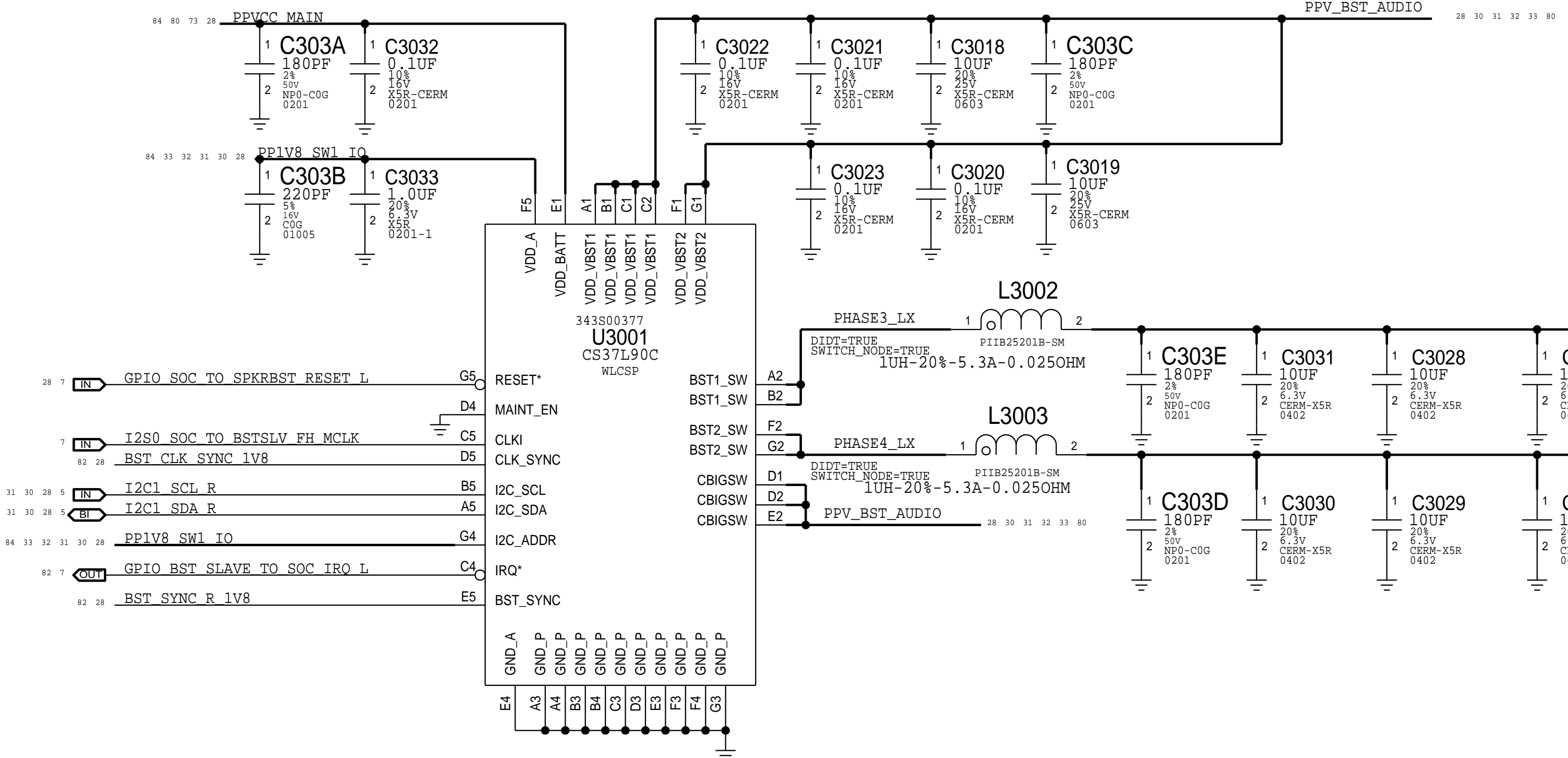
CAMERA: STROBE

BORRIS BOOST

BOOST MASTER



BOOST SLAVE



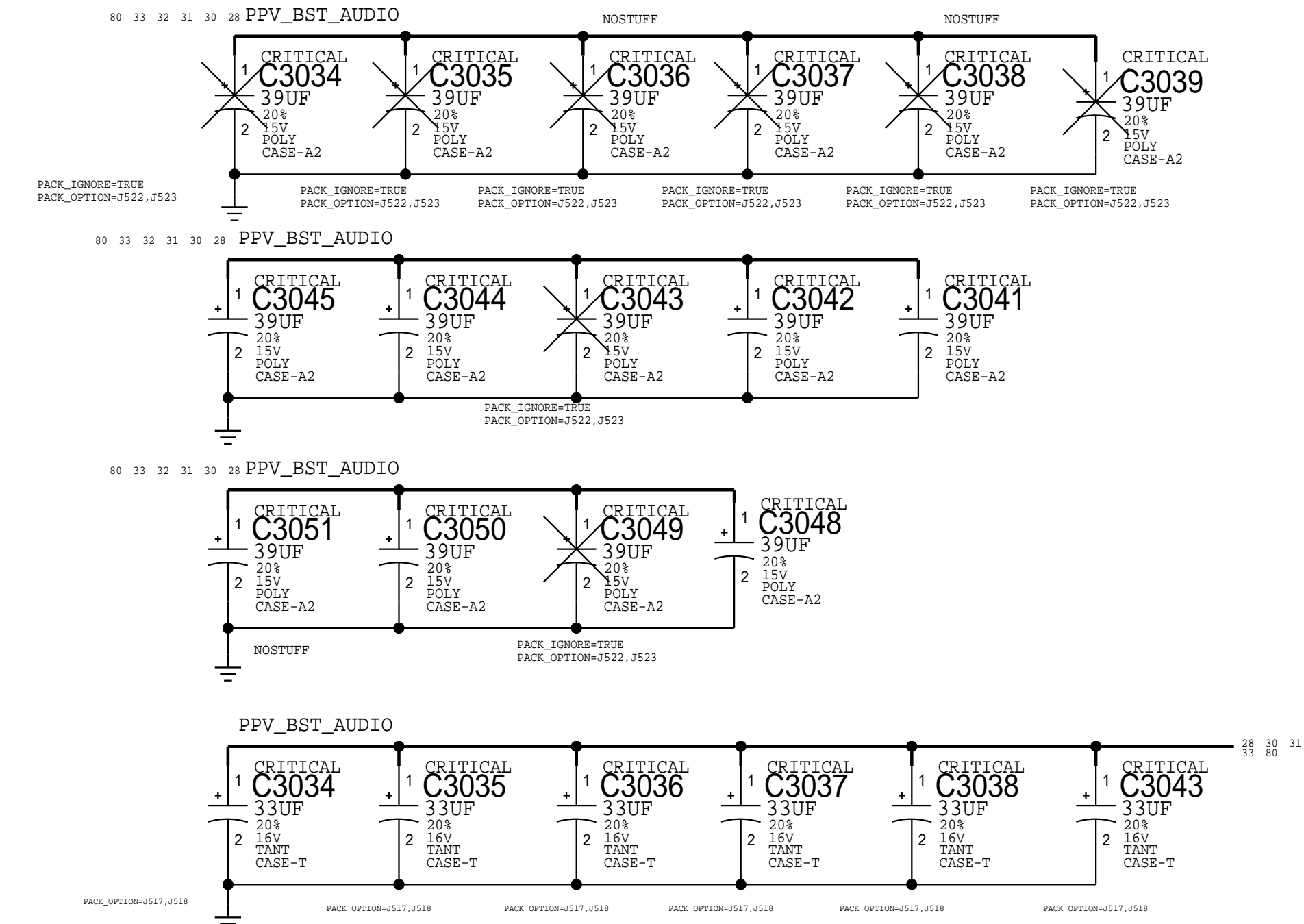
CS35L91 (ARDEE)			
ADDR	PIN	PULL	RESISTOR
GND			0K
VDD			0K
GND			4.99K
VDD			4.99K
GND			20K
VDD			20K
GND			100K
VDD			100K

I2C ADDRESS			
AMP1	FHRT	0X70	
AMP2	FHRW	0X72	
AMP3	FHLT	0X74	
AMP4	FHLW	0X76	
AMP5	CNRT	0X78	
AMP6	CNRW	0X7A	
AMP7	CNLT	0X7C	
AMP8	CNLW	0X7E	

CS37L90 (BORRIS)			
ADDR	PIN	PULL	RESISTOR
GND			0K
DVDD			0K

I2C ADDRESS			
MASTER		0X60	
SLAVE		0X62	

CAP RESERVOIR



BOM_COST_GROUP=AUDIO

AUDIO: BORRIS BOOST

D

C

C



A

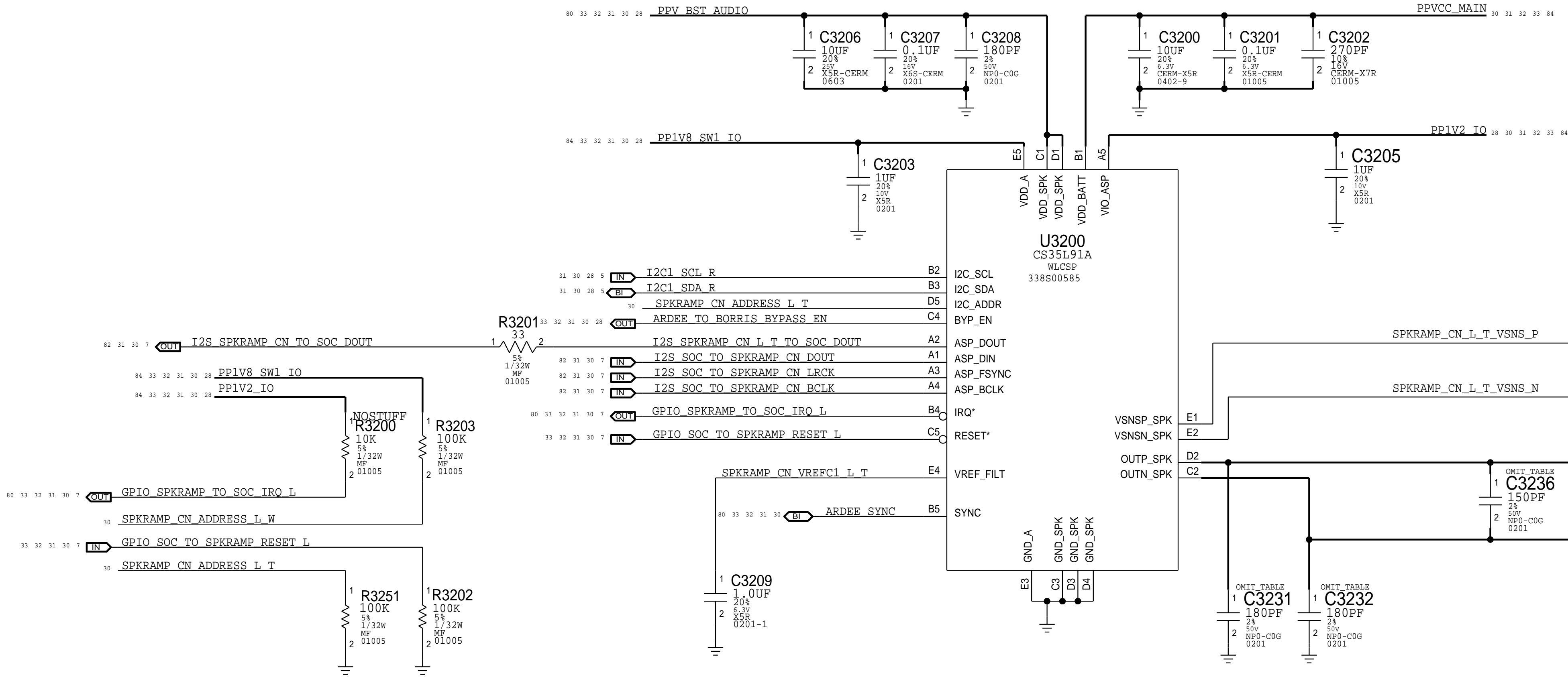


www.DeviceDB.XYZ - schematic, boardview, bios dump

CN L TWEETER SPEAKER AMP

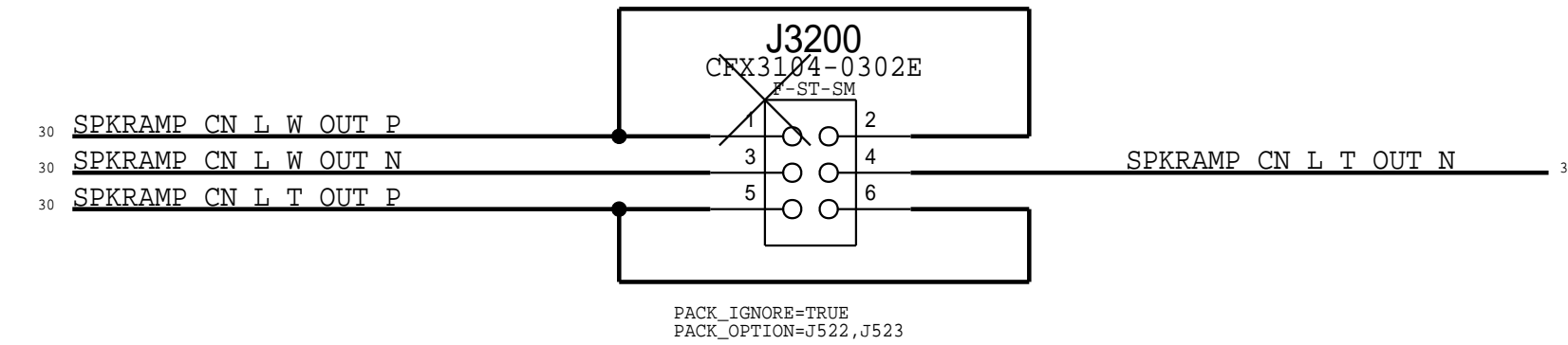
CN-L-T DESENSE CAP CONFIG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3231,C3232	CRITICAL	J522&J523
C3231 & C3232 NOSTUFF FOR J517&J518					
131S00019	1	150PF 0201 DESENSE CAP	C3236	CRITICAL	J517&J518
C3236 NOSTUFF FOR J522&J523					
131S00117	2	120PF 0201 DESENSE CAP	C3233,C3234	CRITICAL	J517&J518
131S00117	2	120PF 0201 DESENSE CAP	C3233,C3234	CRITICAL	J522&J523

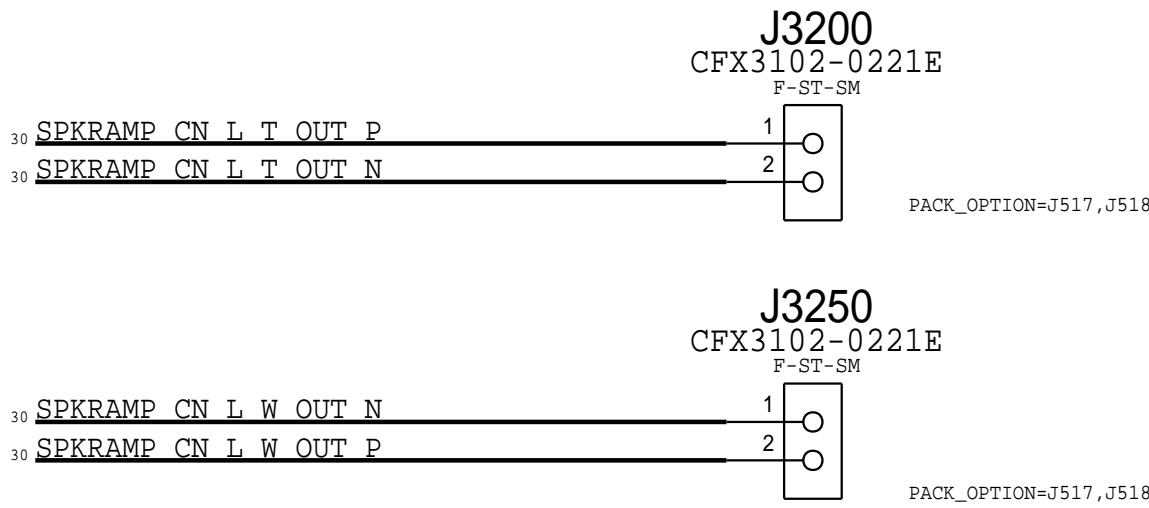


CN L WOOFER SPEAKER AMP

J522 CONNECTOR CONFIGURATION

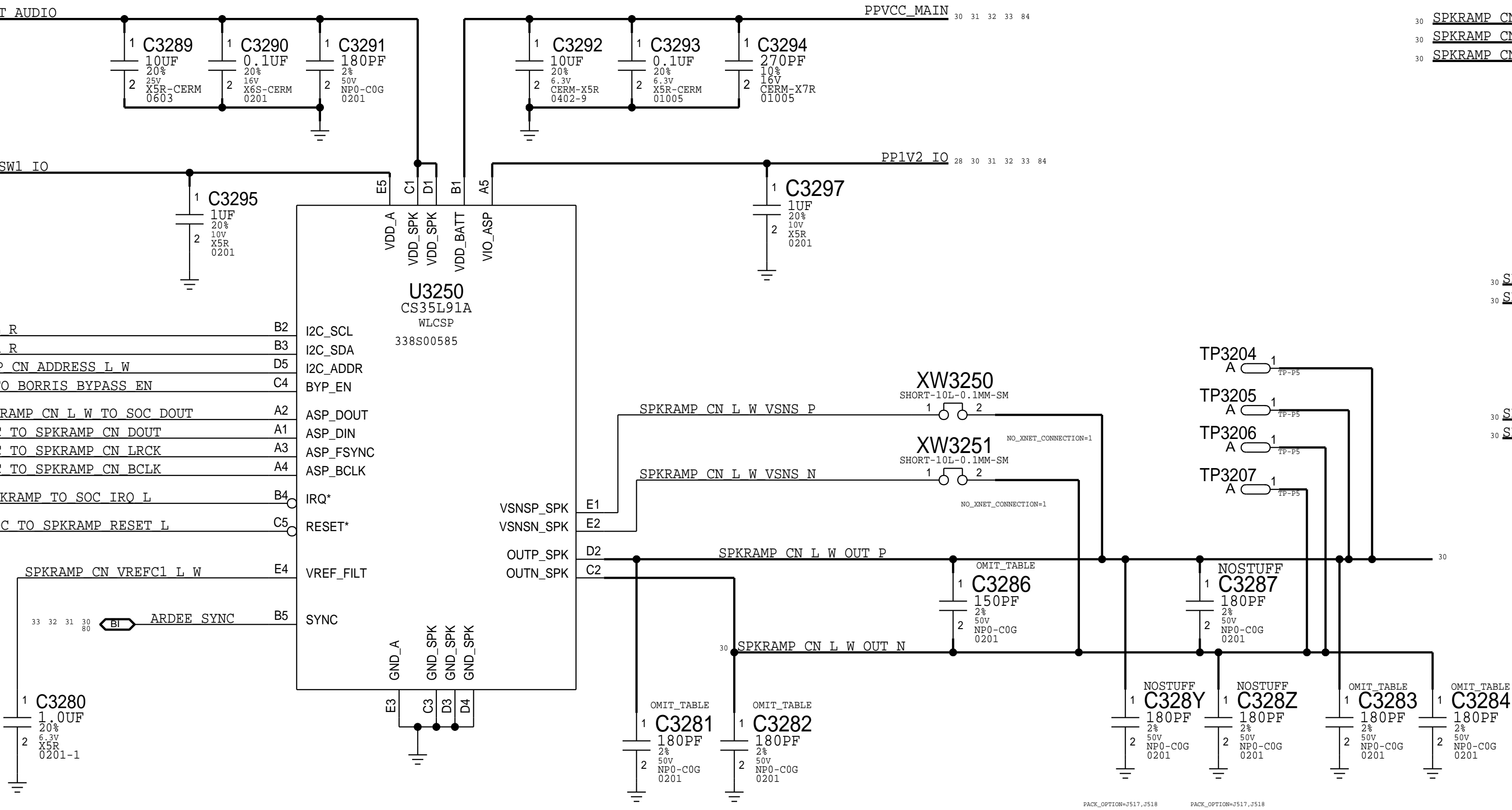


J517 CONNECTOR CONFIGURATION



CN-L-W DESENSE CAP CONFIG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3281,C3282	CRITICAL	J522&J523
C3281 & C3282 NOSTUFF FOR J517&J518					
131S00019	1	150PF 0201 DESENSE CAP	C3286	CRITICAL	J517&J518
C3286 NOSTUFF FOR J522&J523					
131S00117	2	120PF 0201 DESENSE CAP	C3283,C3284	CRITICAL	J517&J518
C3283 & C3284 NOSTUFF FOR J522&J523					

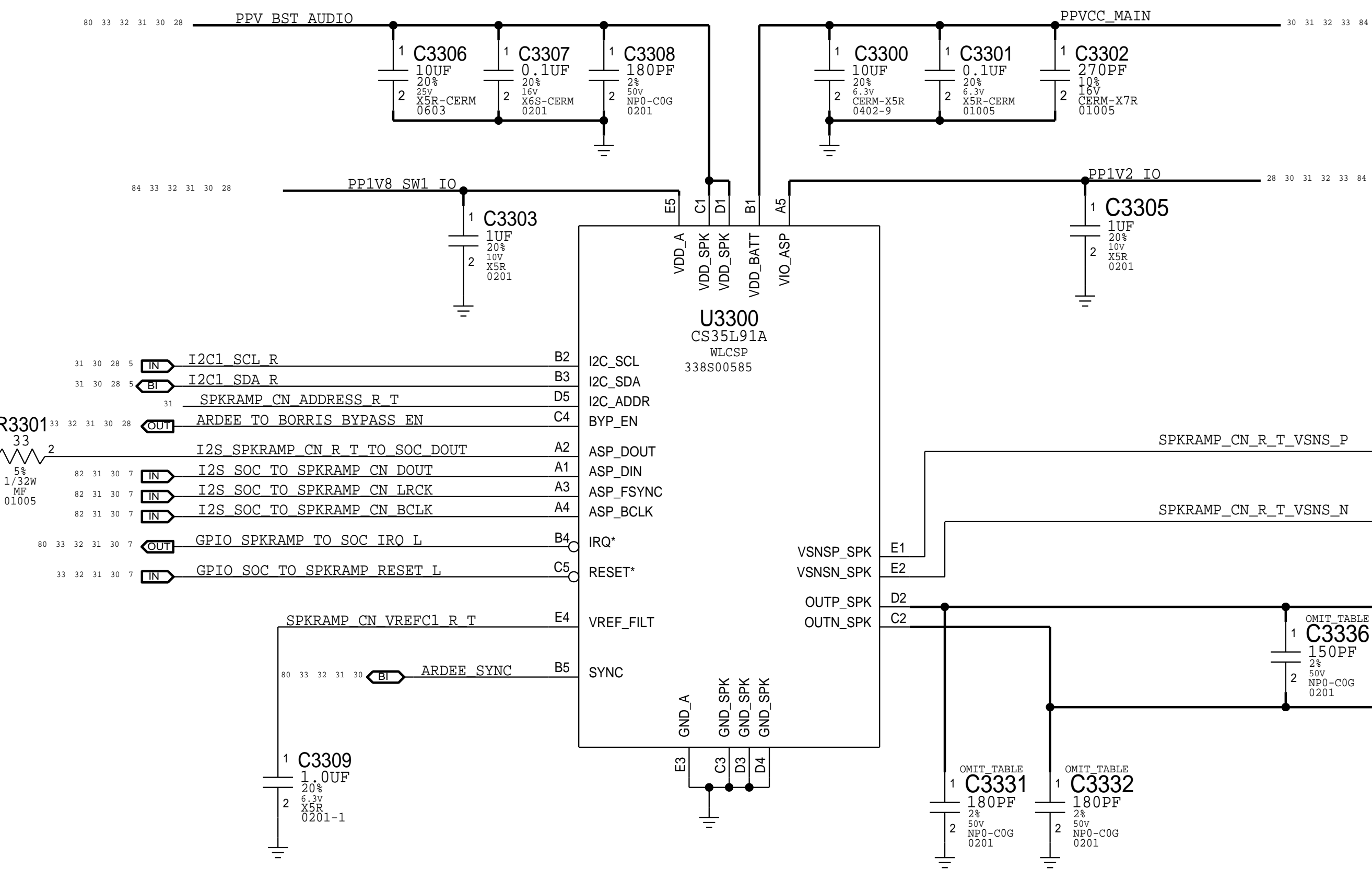


AUDIO: SPEAKER AMPS (CNL)

CN R TWEETER SPEAKER AMP

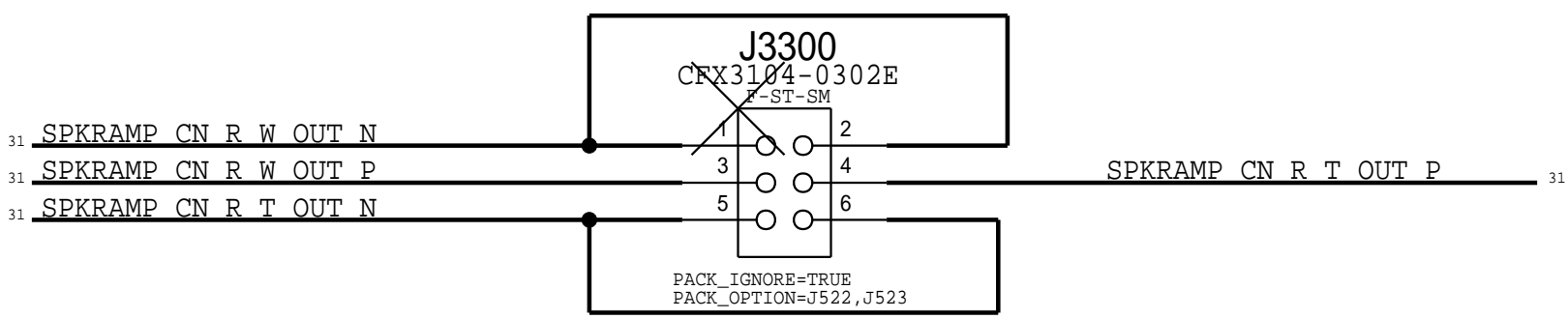
CN-R-T DESENSE CAP CONFIG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3331,C3332	CRITICAL	J522&J523
C3331 & C3332 NOSTUFF FOR J517&J518					
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3336	CRITICAL	J517&J518
C3236 NOSTUFF FOR J522&J523					
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3333,C3334	CRITICAL	J517&J518
C3333 & C3334 NOSTUFF FOR J522&J523					

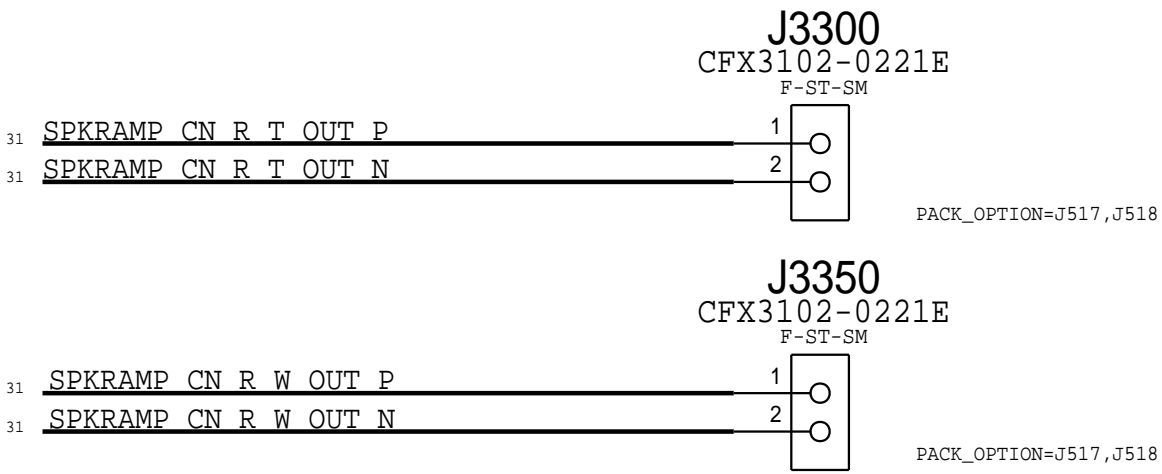


CN R WOOFER SPEAKER AMP

J522 CONNECTOR CONFIGURATION

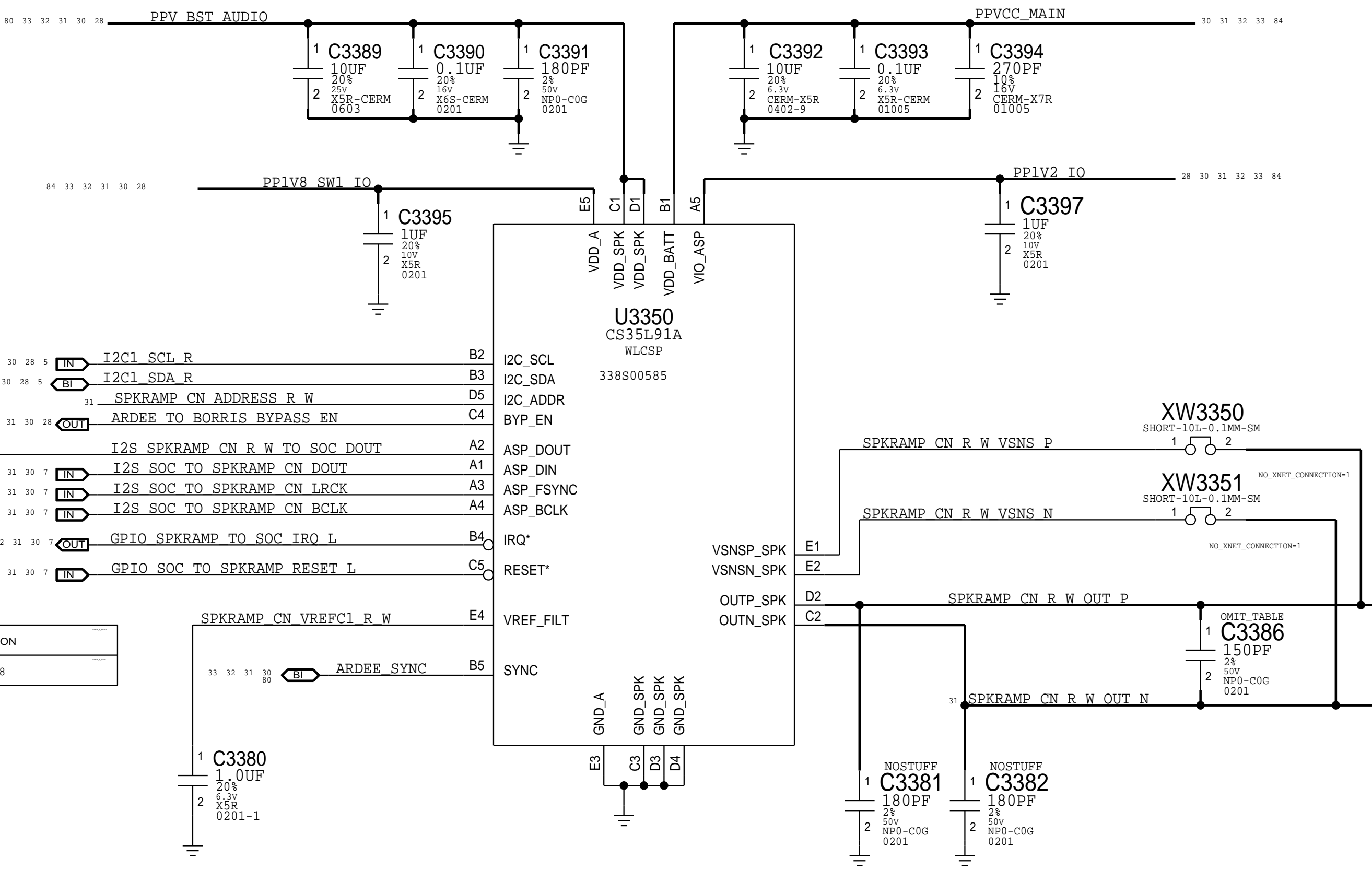


J517 CONNECTOR CONFIGURATION



CN-R-W DESENSE CAP CONFIG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3386	CRITICAL	J517&J518
C3386 NOSTUFF FOR J522&J523					



AUDIO: SPEAKER AMPS (CNR)

FH L TWEETER SPEAKER AMP

FH-L-T DESENSE CAP CONFIG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3431,C3432	CRITICAL	J522&J523

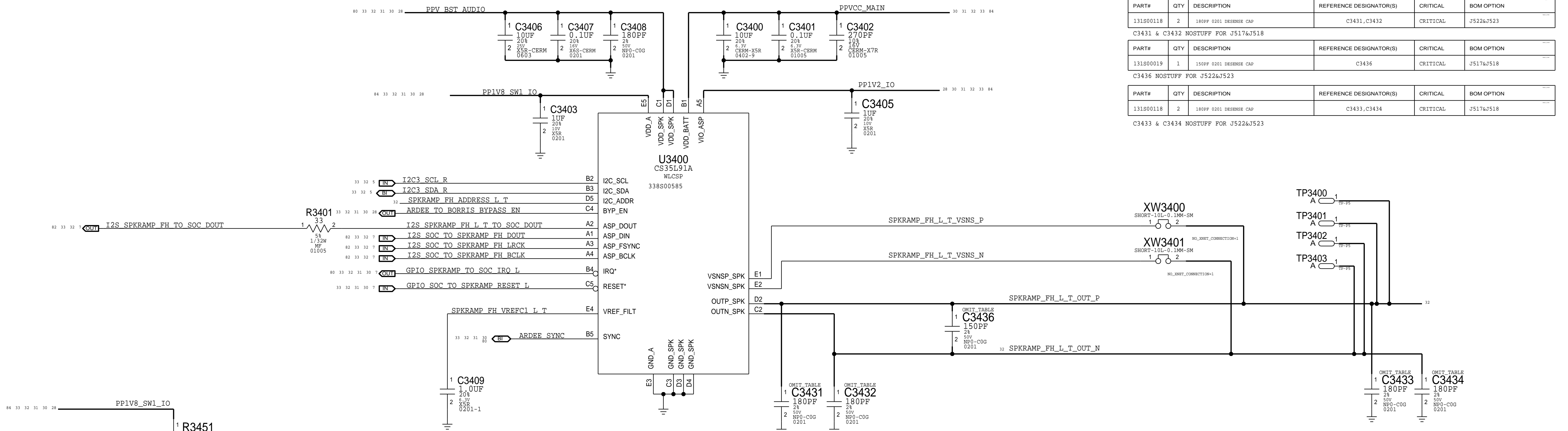
C3431 & C3432 NOSTUFF FOR J517&J518

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3436	CRITICAL	J517&J518

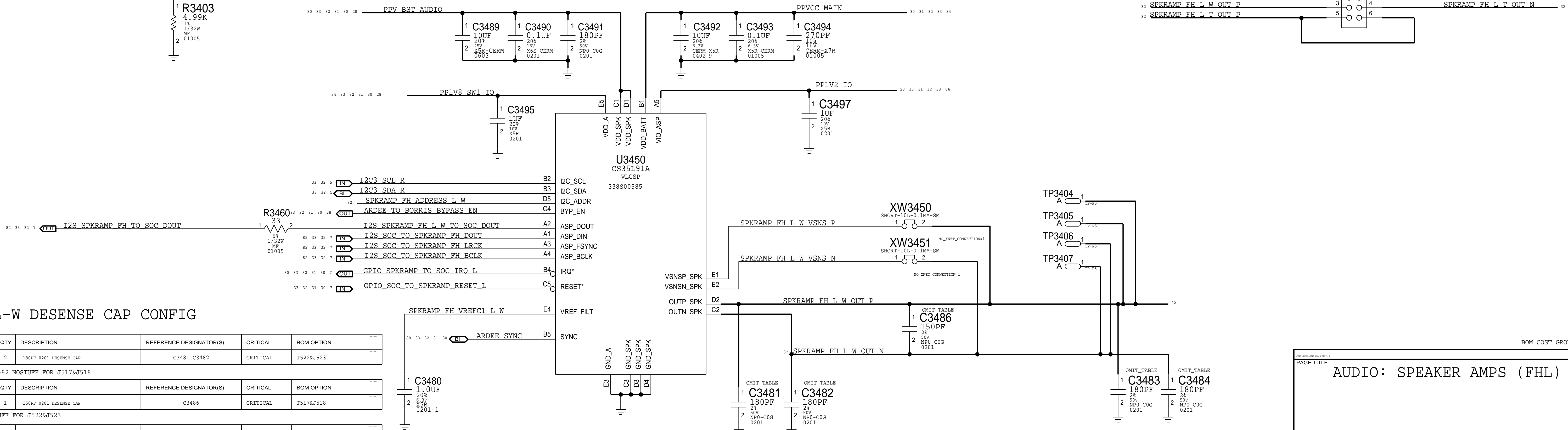
C3436 NOSTUFF FOR J522&J5

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3433,C3434	CRITICAL	J517&J518

C3433 & C3434 NOSTUFF FOR J522&J5



FH L WOOFER SPEAKER AMP



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3481,C3482	CRITICAL	J522&J523

C3481 & C3482 NOSTUFF FOR J517&J51

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3486	CRITICAL	J517&J518

C3486 NOSTUFF FOR J522&J523

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3483,C3484	CRITICAL	J517&J518

C3483 & C3484 NOSTIFF FOR J522&J52

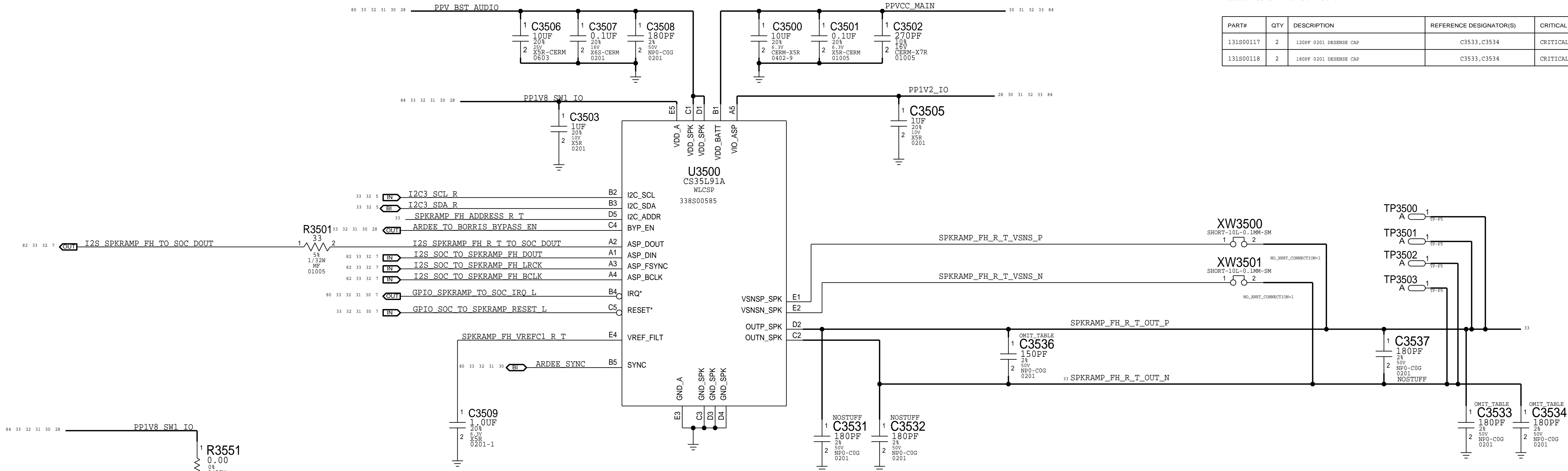
FH R TWEETER SPEAKER AMP

FH-R-T DESENSE CAP CONFIG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3536	CRITICAL	J517&J518

C3536 NOSTUFF FOR J522&J523

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00117	2	120PF 0201 DESENSE CAP	C3533,C3534	CRITICAL	J517&J518
131S00118	2	180PF 0201 DESENSE CAP	C3533,C3534	CRITICAL	J522&J523



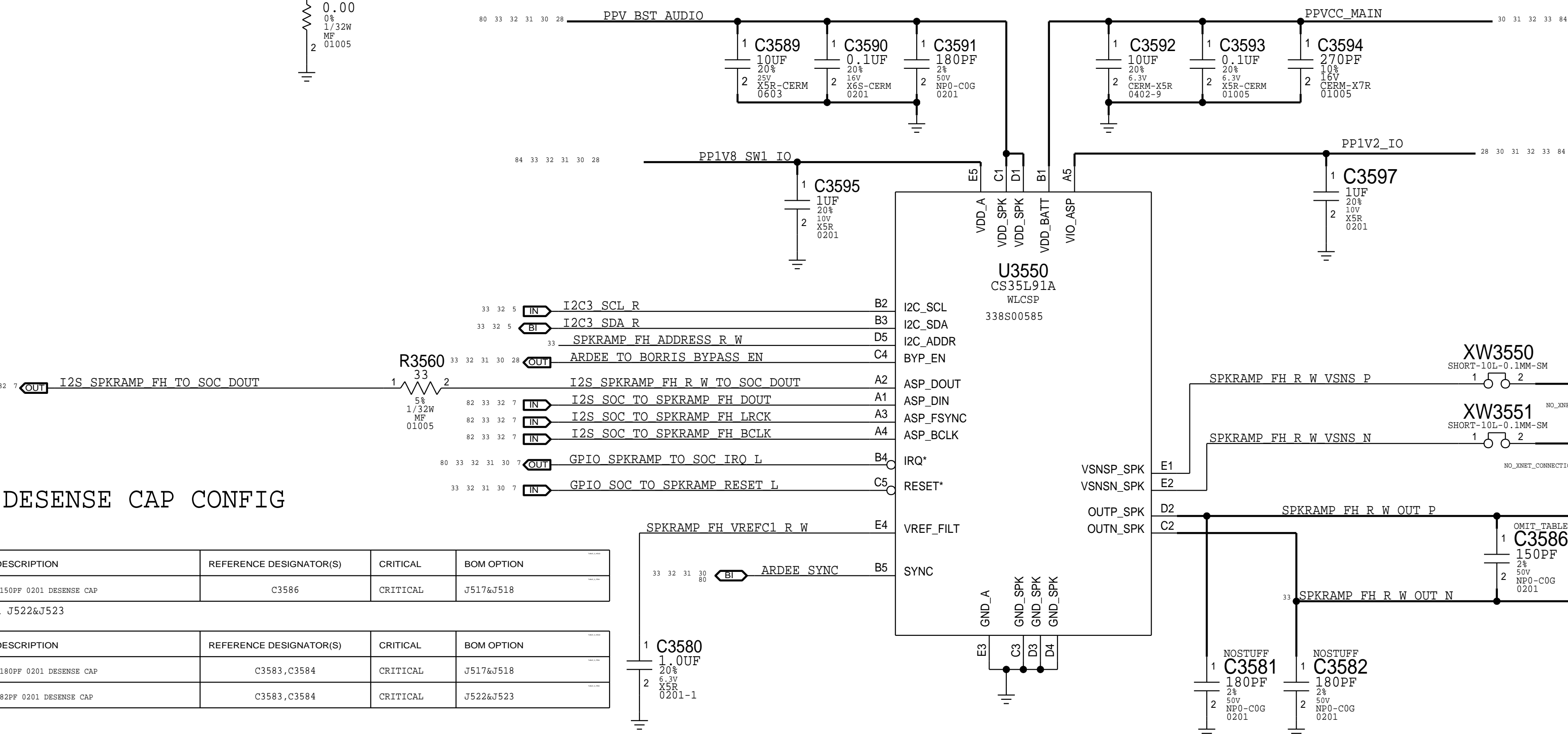
FH R WOOFER SPEAKER AMP

J3500
CFX3102-0221E
F-ST-SM

J3550
CFX3102-0221E
F-ST-SM

TP3504
TP3505
TP3506
TP3507

C3583
C3587
C3588
C3589



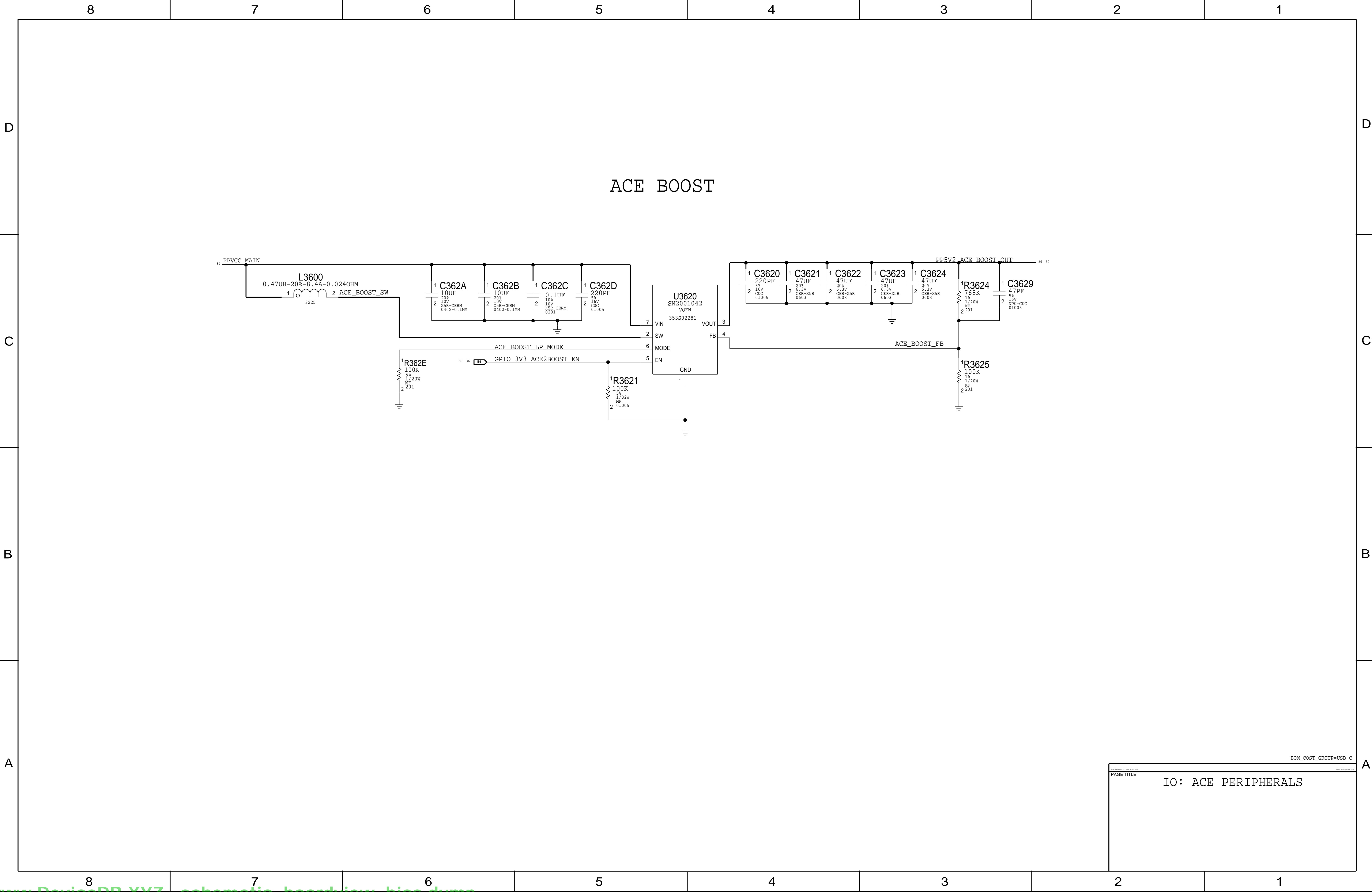
FH-R-W DESENSE CAP CONFIG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3586	CRITICAL	J517&J518

C3586 NOSTUFF FOR J522&J523

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00118	2	180PF 0201 DESENSE CAP	C3583,C3584	CRITICAL	J517&J518
131S00018	2	82PF 0201 DESENSE CAP	C3583,C3584	CRITICAL	J522&J523

AUDIO: SPEAKER AMPS (FHR)



D

B



D



B

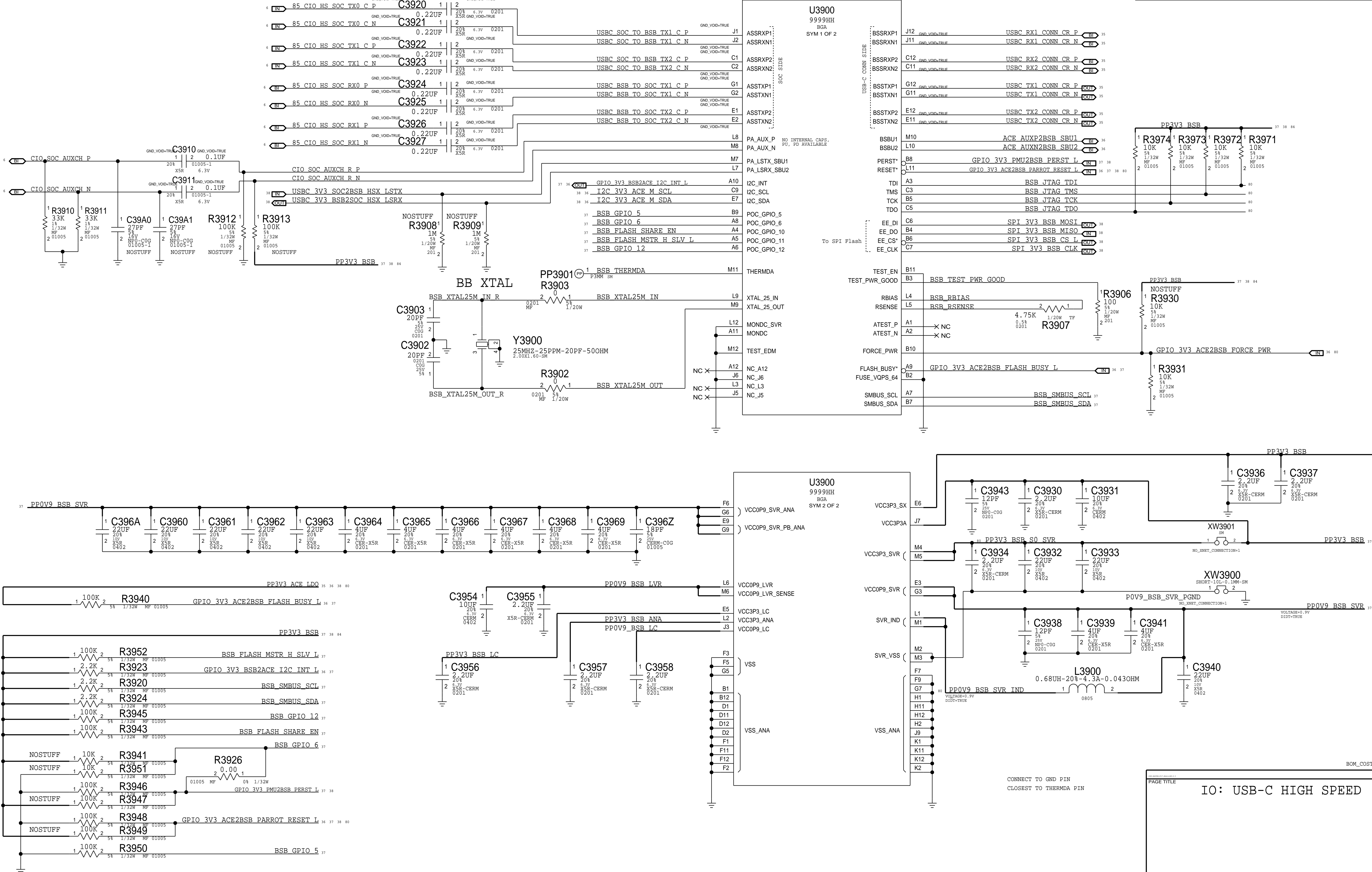


IO: IOFLEX B2B & SIM B2B

BURNSIDE BRIDGE

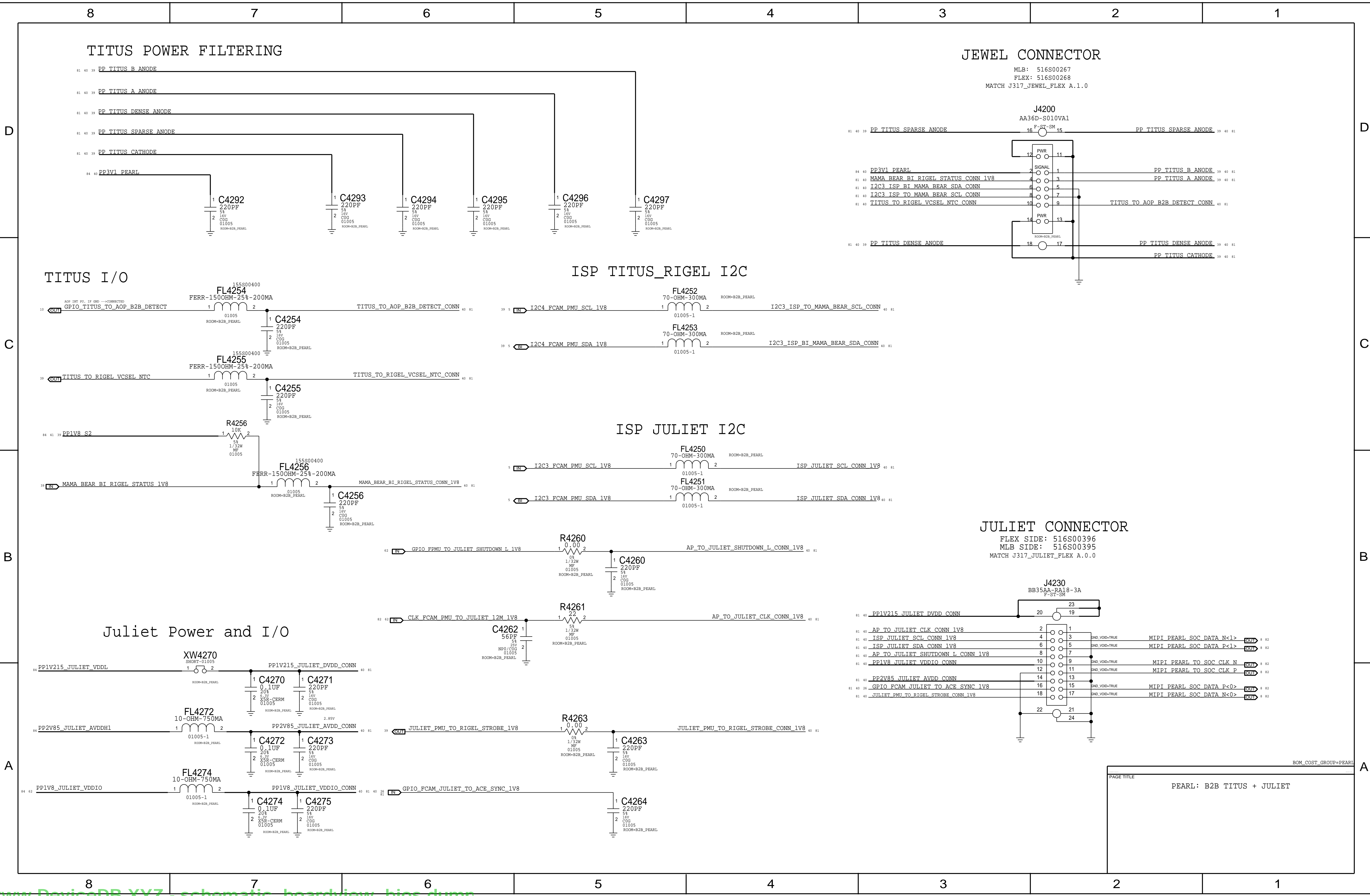
USBC HIGH-SPEED 1 AC COUPLING

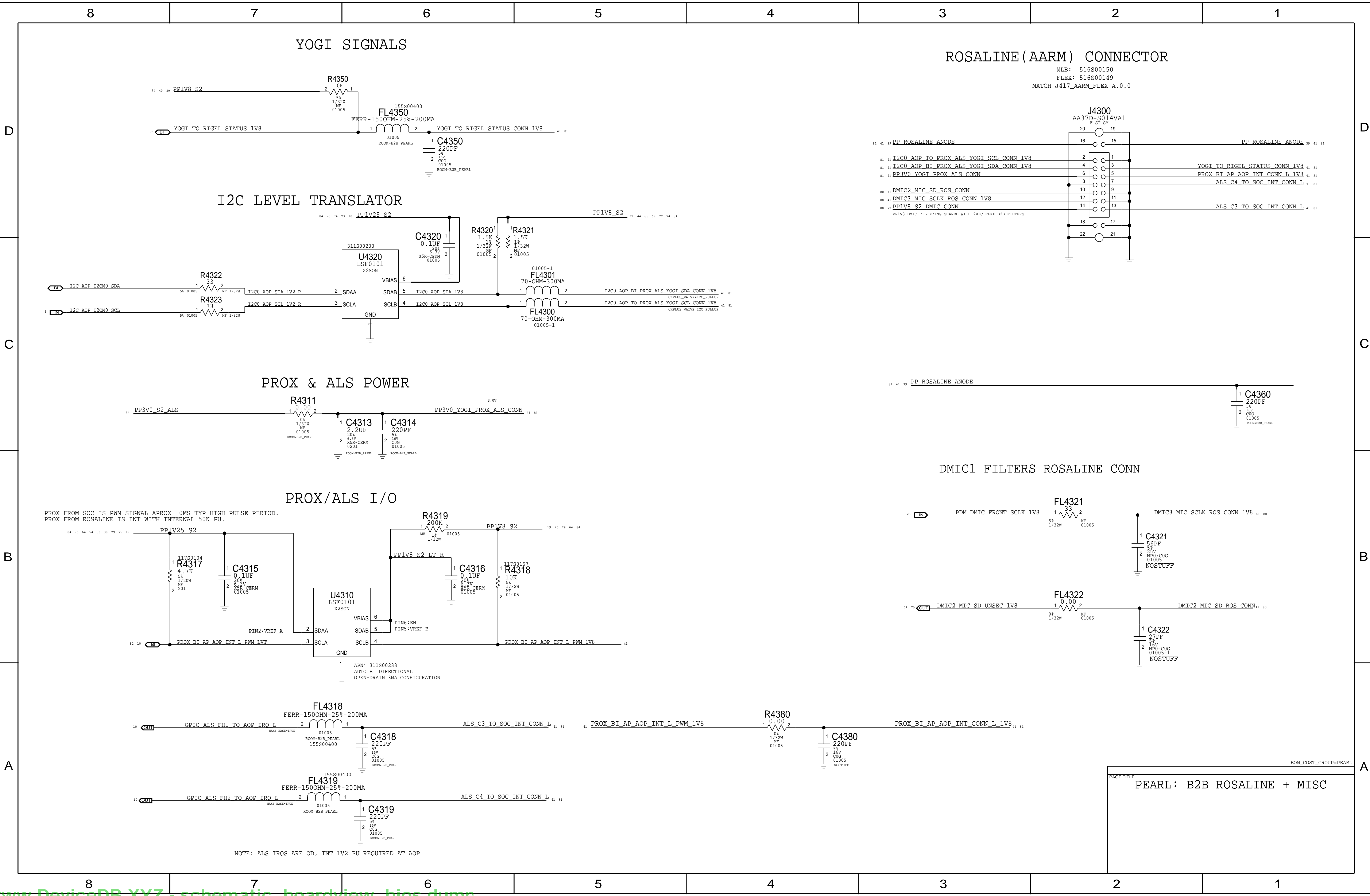
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197800047	197800036		Y3900	25MHZ XTAL KYO.



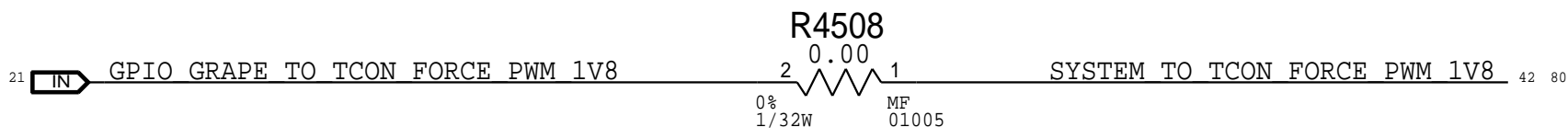
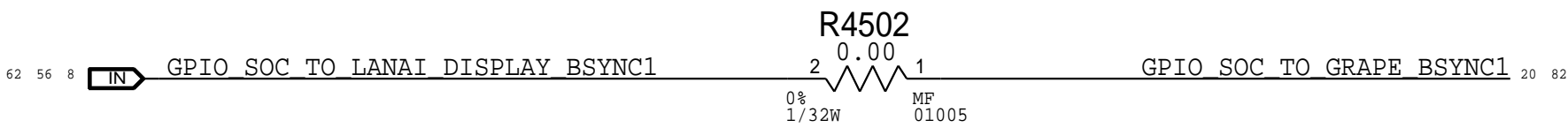
IO: USB-C HIGH SPEED



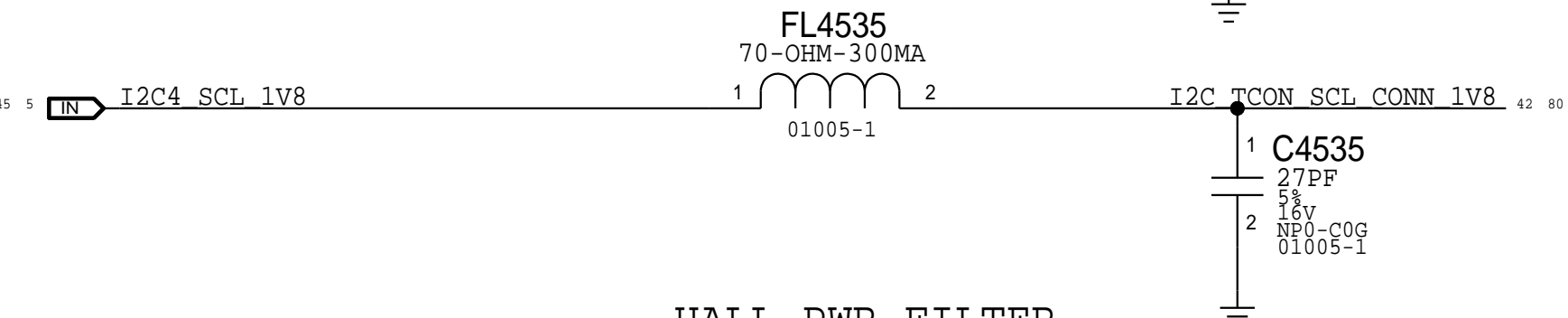
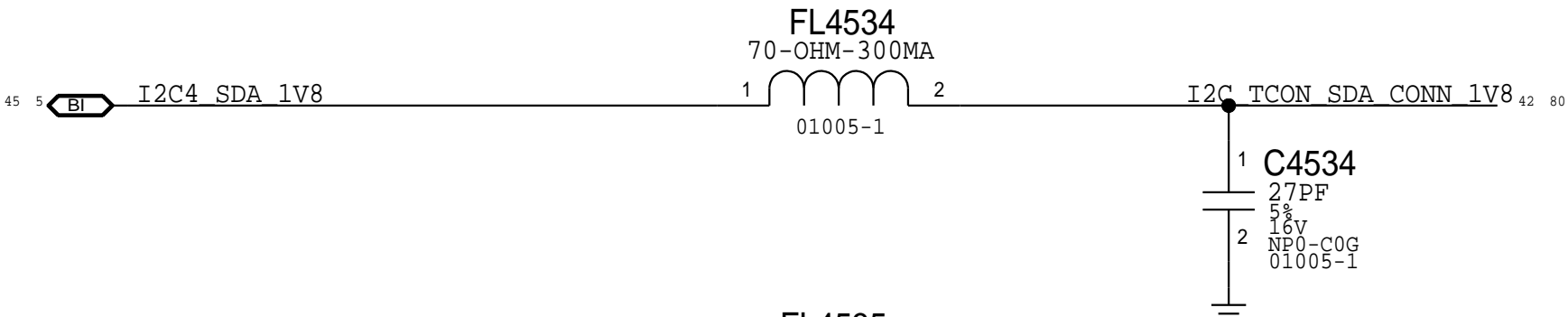




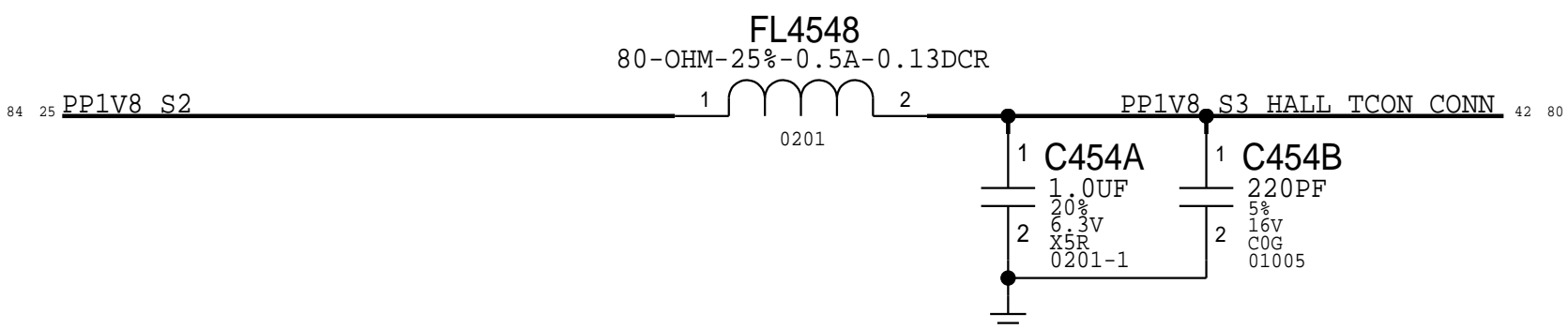
EDP FLEX FILTERS AND CONNECTORS



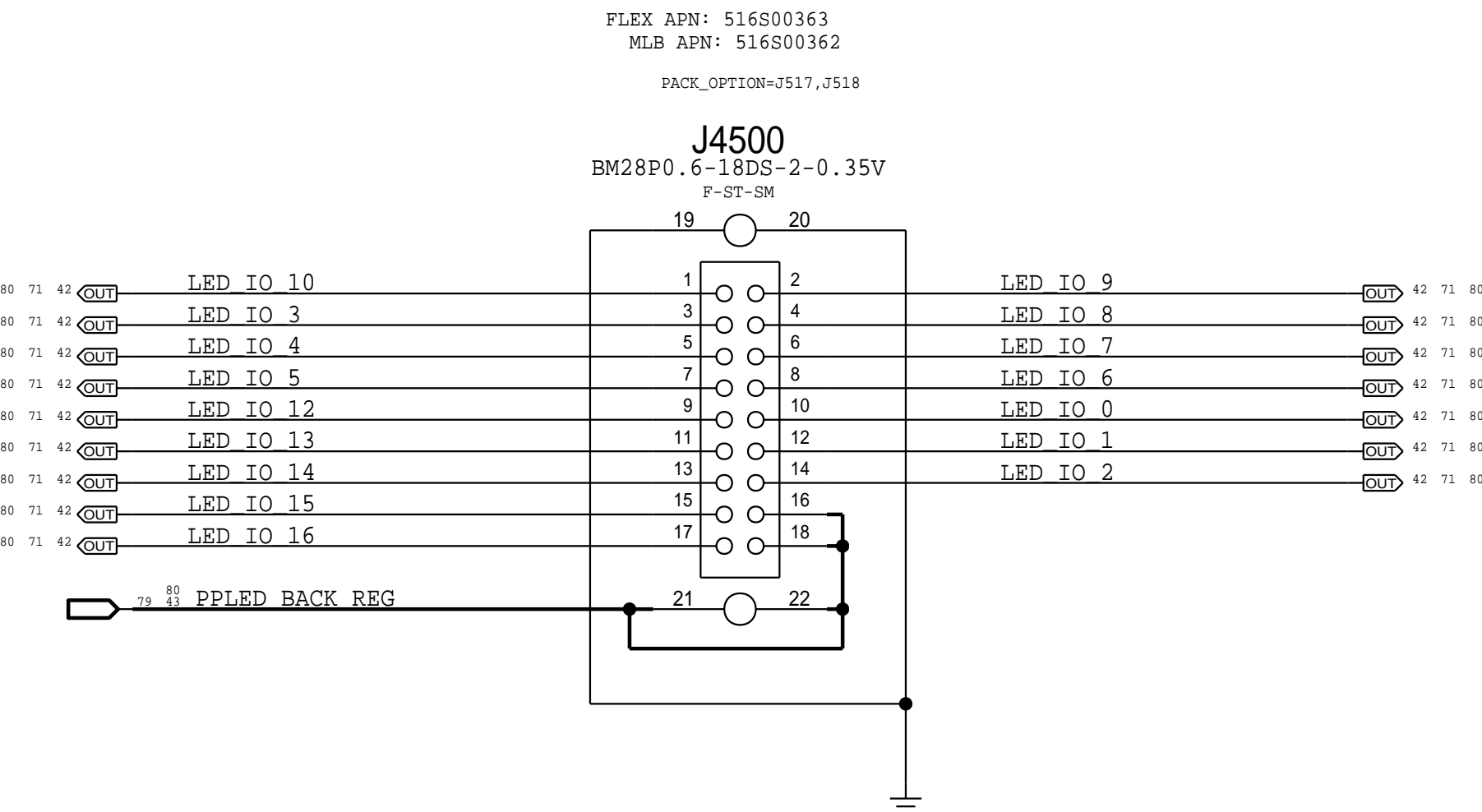
TCON I2C FILTERS



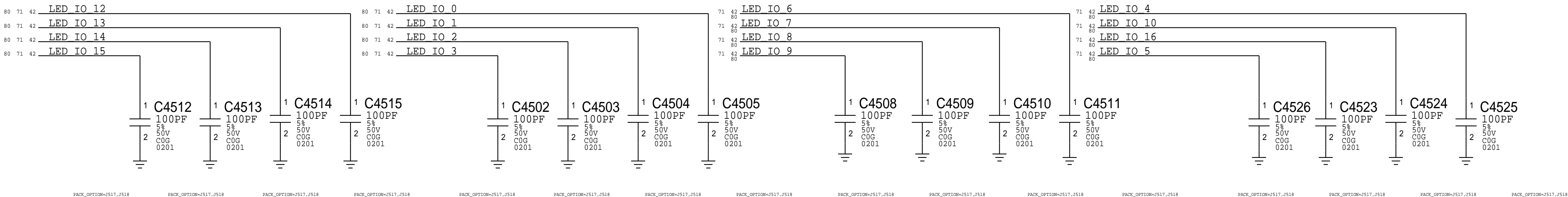
HALL PWR FILTER



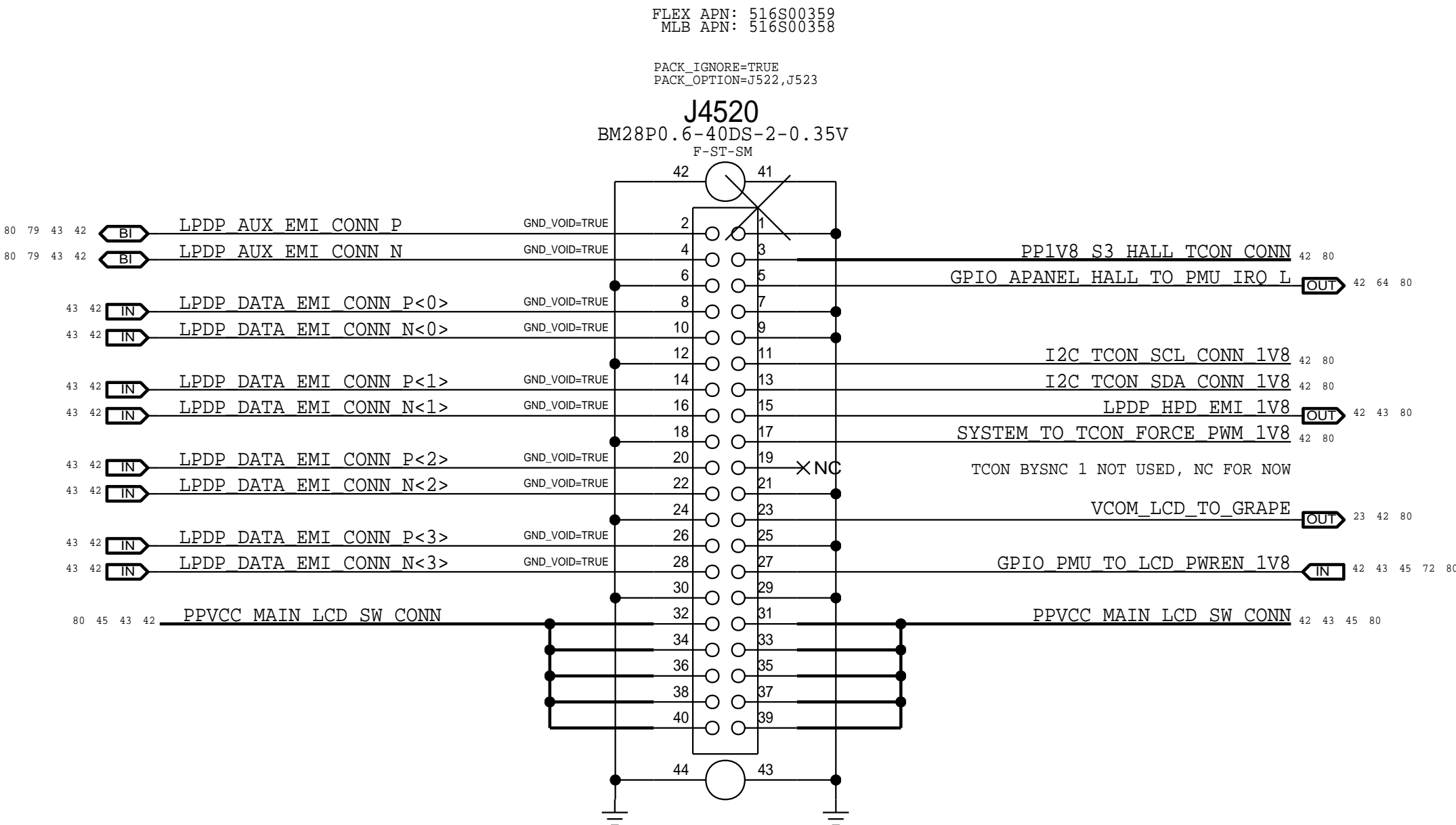
J517 BL CONN MLB SIDE 18+2 PIN B2B



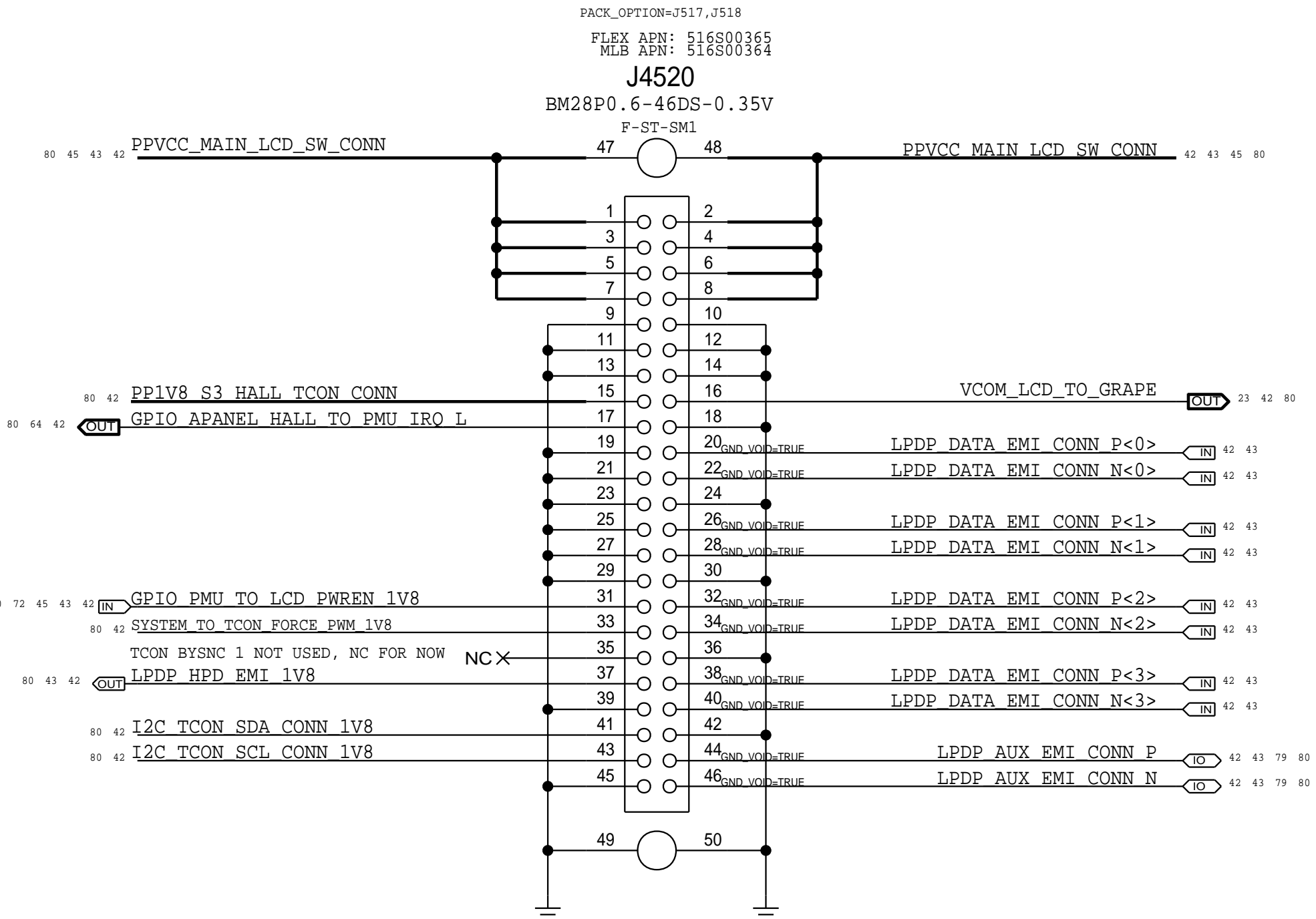
LED DRIVER FILTERS



J522 EDP CONN MLB SIDE 39+2 PIN B2B

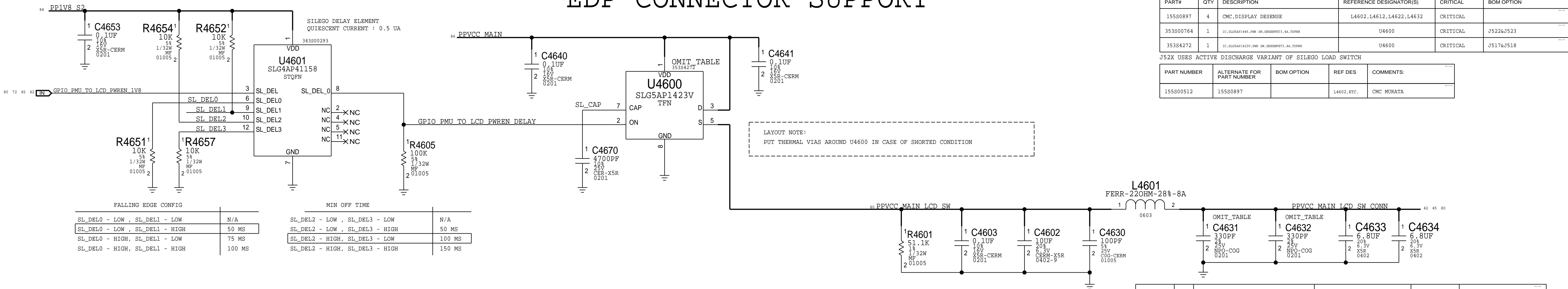


J517 EDP CONN MLB SIDE 46+2 PIN B2B



DISPLAY: B2B CONN

EDP CONNECTOR SUPPORT

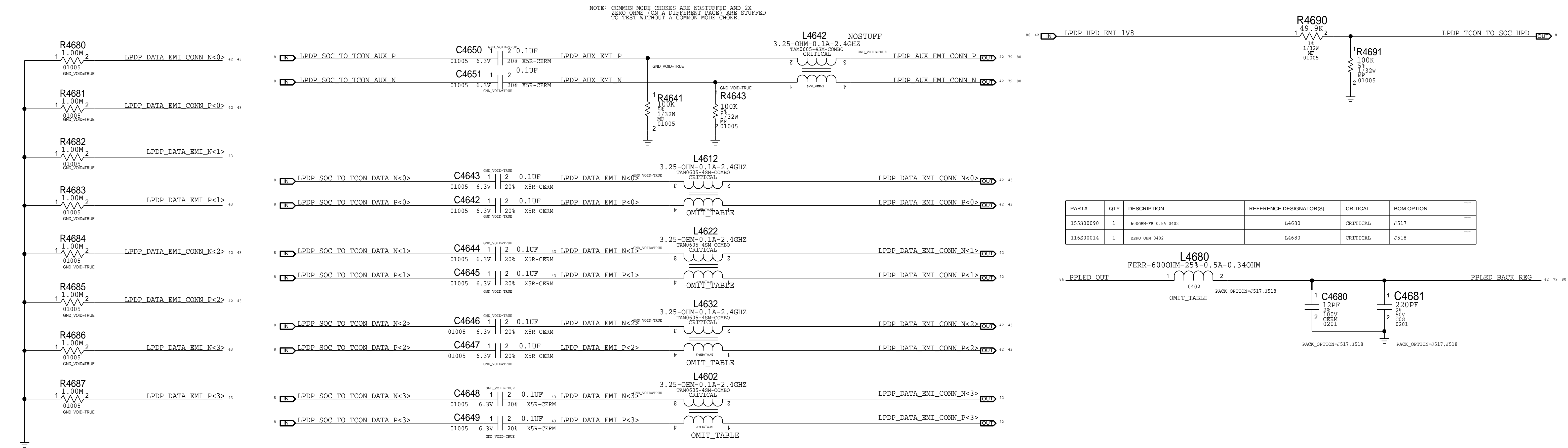


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0897	4	CMC,DISPLAY DESENSE	L4602,L4612,L4622,L4632	CRITICAL	
353S00764	1	IC,SLG5AP1423V,PMU,SW,GREENPCT3,4A,T20PM	U4600	CRITICAL	J522&J517&J518
353S4272	1	IC,SLG5AP1423V,PMU,SW,GREENPCT3,4A,T20PM	U4600	CRITICAL	J517&J518

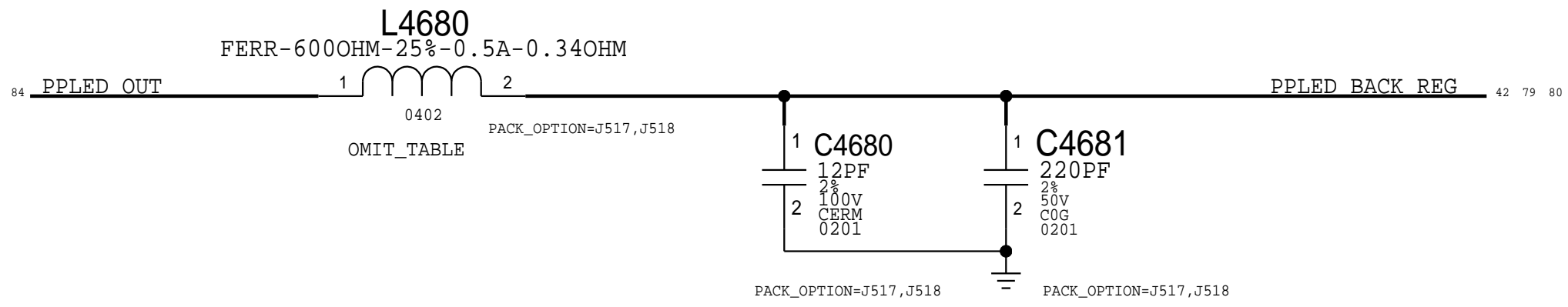
J52X USES ACTIVE DISCHARGE VARIANT OF SILEGO LOAD SWITCH				
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S00512	155S0897		L4602,ETC.	CMC MURATA

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S0824	2	330PF 0201 DESENSE CAP	C4631,C4632	CRITICAL	J522&J517&J518
131S00019	2	150PF 0201 DESENSE CAP	C4631,C4632	CRITICAL	J523

NOTE: J51X C4631 & C4632 VALUES STILL AT 330PF

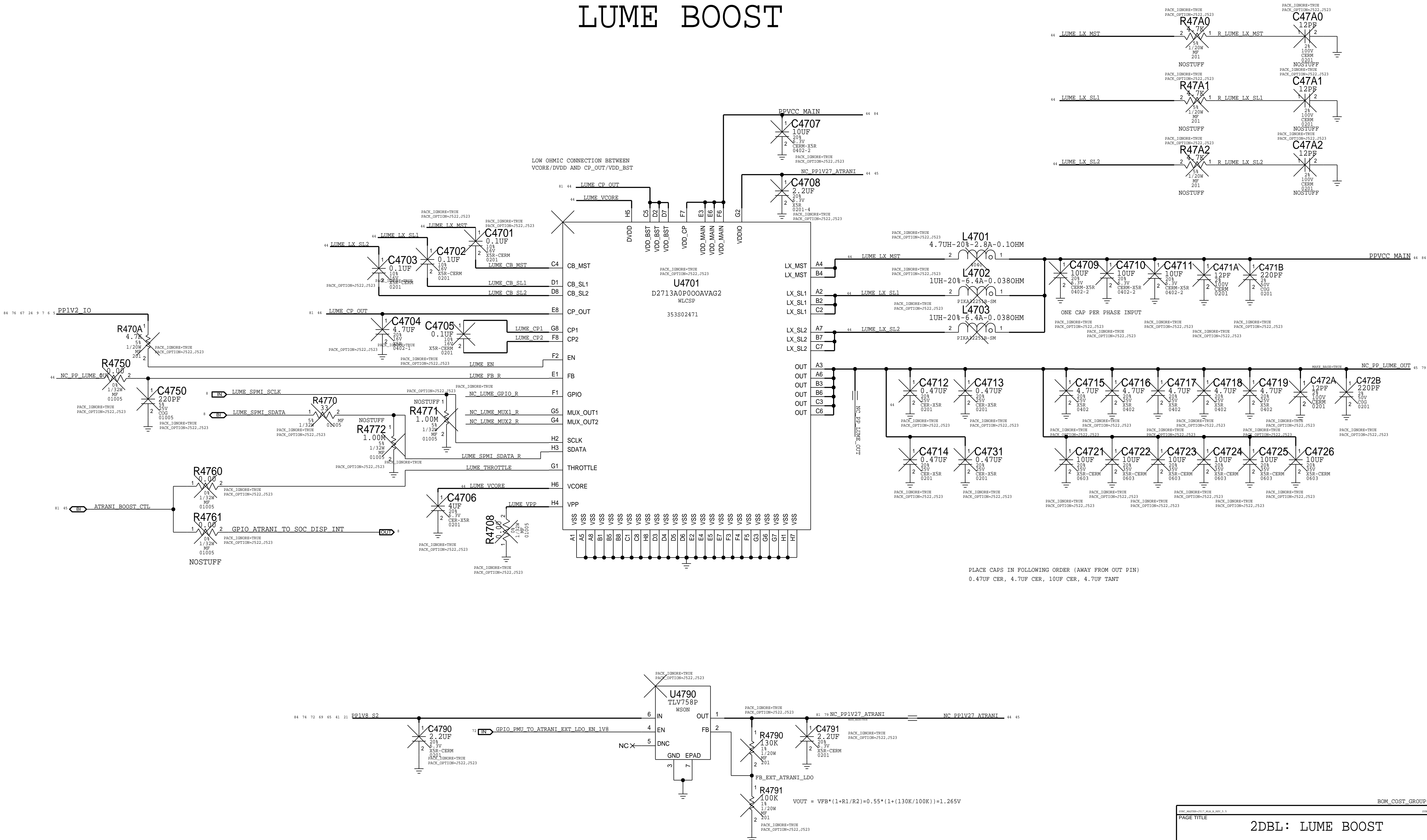


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S00090	1	600OHM-FB 0.5A 0402	L4680	CRITICAL	J517
116S00014	1	ZERO OHM 0402	L4680	CRITICAL	J518



BOM_COST_GROUP=DISPLAY	
PAGE TITLE	DISPLAY: EDP SUPPORT

LUME BOOST



D

C

B

A

D

C

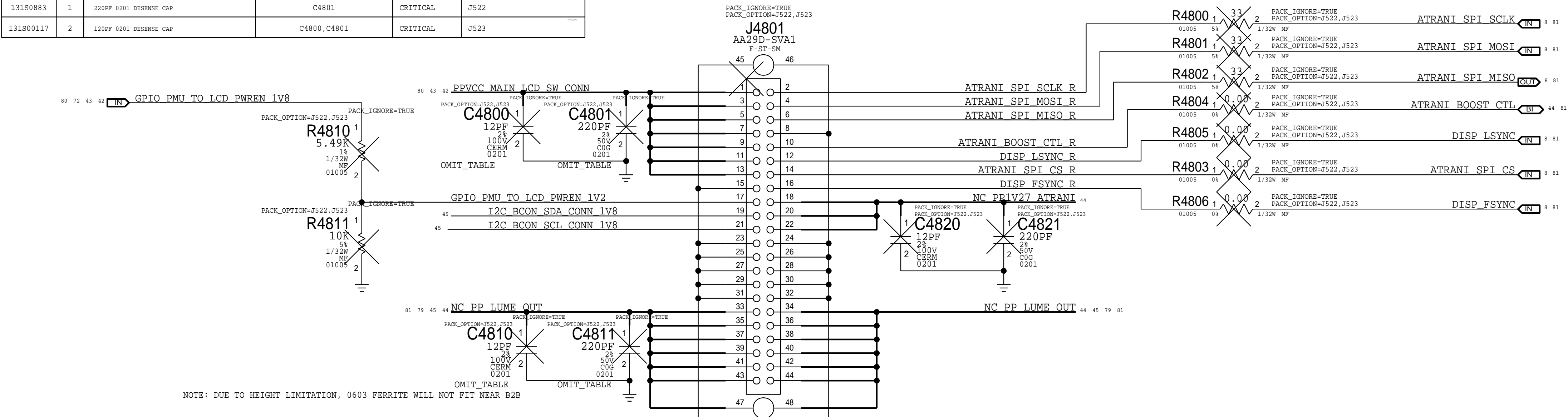
B

A

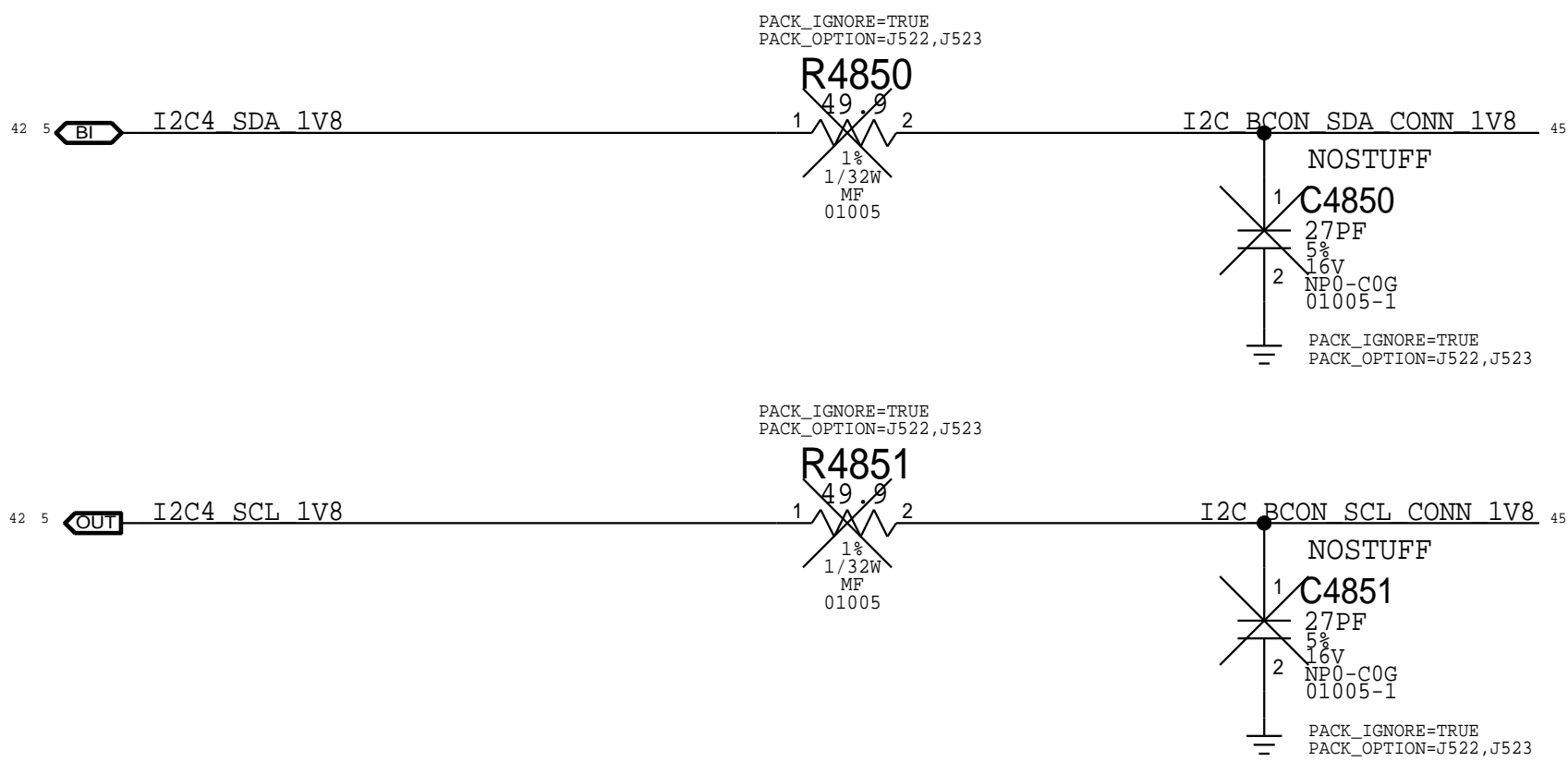
BCON B2B CONN

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00039	1	12PF 0201 DESENSE CAP	C4800	CRITICAL	J522
131S0883	1	220PF 0201 DESENSE CAP	C4801	CRITICAL	J522
131S00117	2	120PF 0201 DESENSE CAP	C4800,C4801	CRITICAL	J523

APN:516S00222
MATING APN: 516S00223



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00039	1	12PF 0201 DESENSE CAP	C4810	CRITICAL	J522
131S0883	1	220PF 0201 DESENSE CAP	C4811	CRITICAL	J522
131S0731	2	100PF 0201 DESENSE CAP	C4810,C4811	CRITICAL	J523



D

D

5G CORE0

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
131S0893	1	CAP,CER,COG,0.2PF,01005,HQ	C202_W	J518
152S01247	1	IND,FILM,1NH,SQ,01005	R233_W	J518
131S0030	1	CAP,CER,COG,0.4PF,01005	C201_W	J518
131S0648	1	CAP,CER,COG,0.3PF,01005	C361_W	J518
152S01247	1	IND,FILM,1NH,SQ,01005	R363_W	J518
131S0648	1	CAP,CER,COG,0.3PF,01005	C362_W	J518

2G CORE0

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152800521	1	IND, FILM, 5.6NH, SHQ, 01005	C520_W	J518
152800521	1	IND, FILM, 5.6NH, SHQ, 01005	C530_W	J518

C

C

5G CORE1

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
131S0893	1	CAP,CER,COG,0.2PF,01005,HQ	C228_W	J518
131S0893	1	CAP,CER,COG,0.2PF,01005,HQ	C206_W	J518
152S00493	1	IND,FILM,0.9NH,SHQ,01005	R202_W	J518
131S0648	1	CAP,CER,COG,0.3PF,01005	C205_W	J518
152S01109	1	IND,FILM,0.6NH,SHQ,01005	R373_W	J518
131S0648	1	CAP,CER,COG,0.3PF,01005	C376_W	J518

2G CORE1

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152800521	1	IND, FILM, 5.6NH, SHQ, 01005	C561_W	J518
152800521	1	IND, FILM, 5.6NH, SHQ, 01005	C552_W	J518

B

B

A

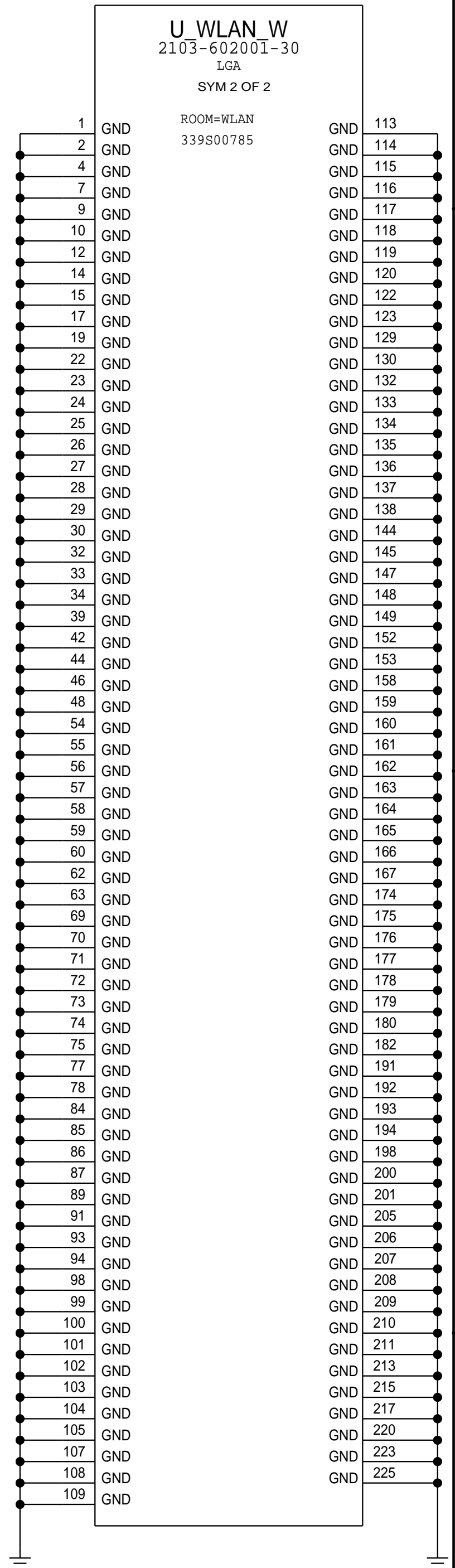
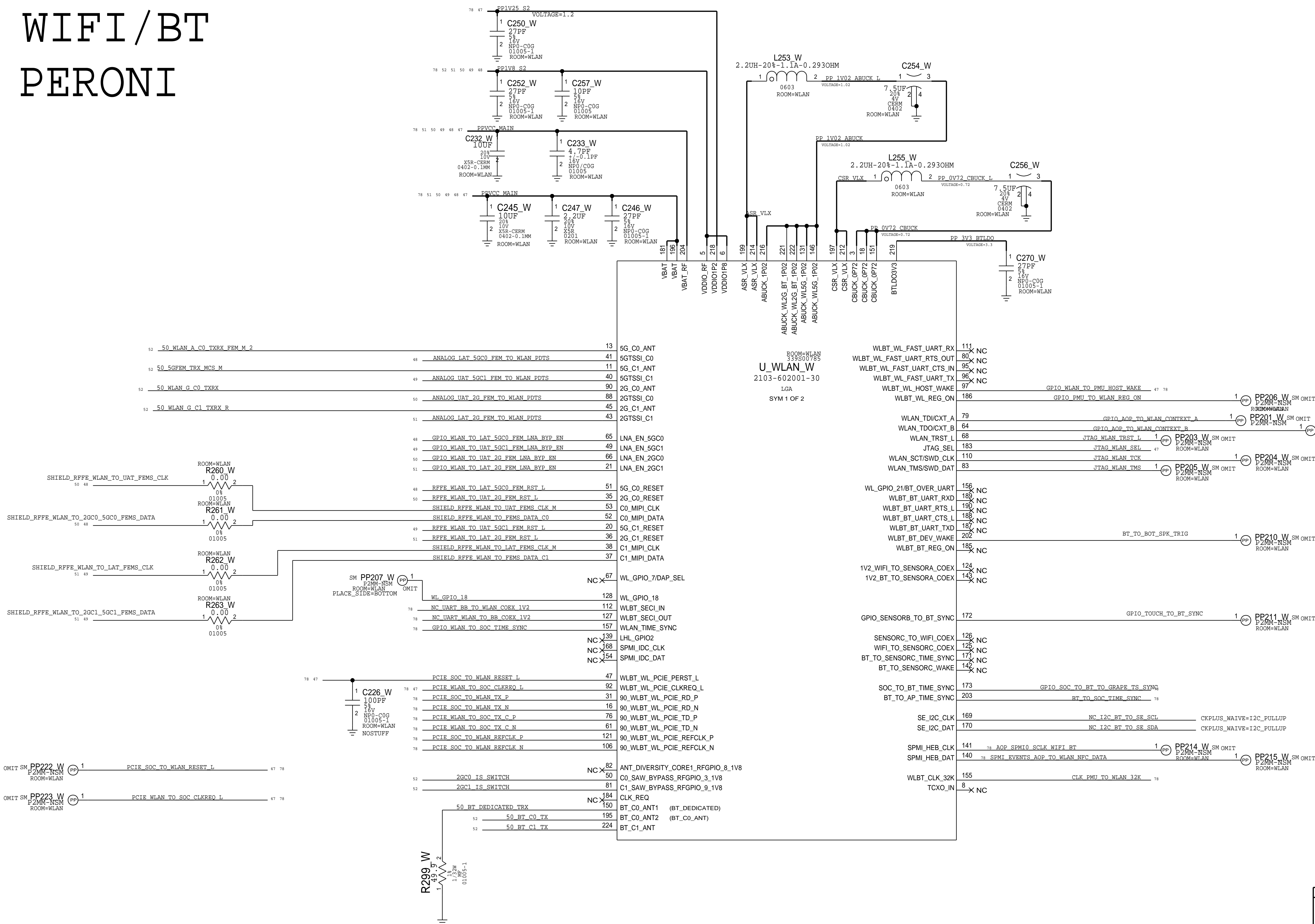
A

SYNC MASTER=J517 WIFT MLBBMVCOST3GROUP=WIFT SYNC DATE=08/24/2020

PAGE TITLE

BOM Option

WIFI/BT PERONI



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S00786	339S00785	ALT_PARTS	U_WLAN_W	?

SYNC_MASTER=7517_WIFI_MLA_REV_D_33
PAGE TITLE
PERONI
BOM_COST_GROUP=WIFI
SYM_DATE=08/24/2020

J517 LAT 5GHZ RFEM

OMIT'S:PP2080 W
P20MM-NSM
ROOM=WLAN

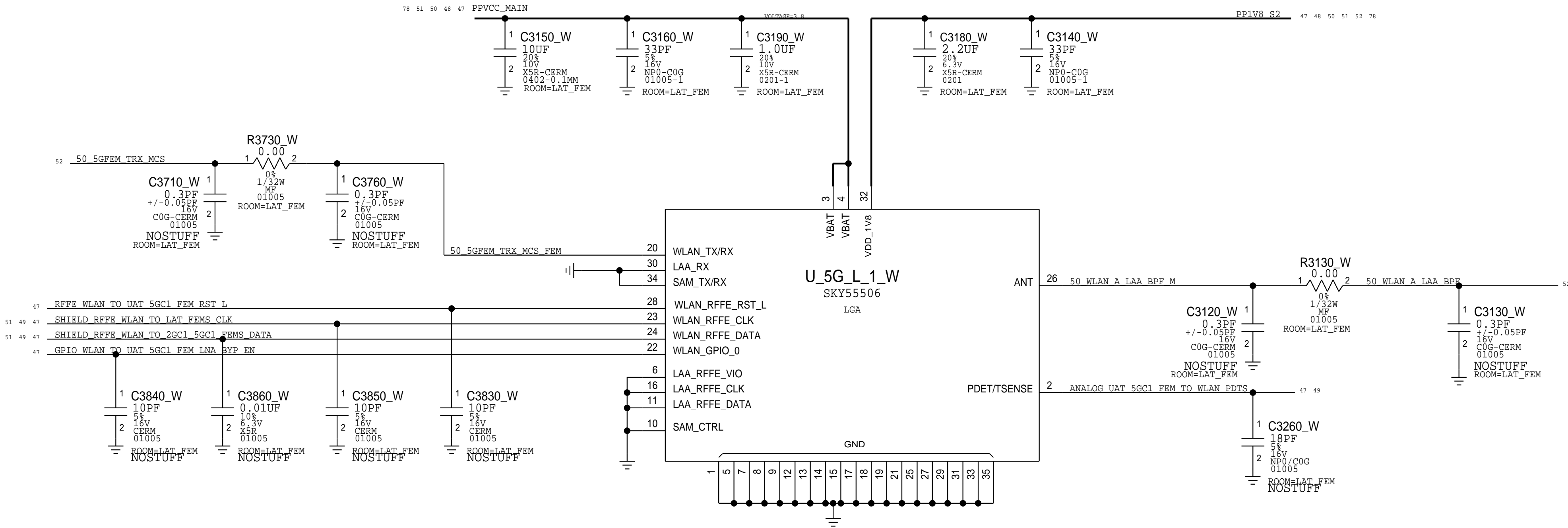
1 ANALOG UAT 5GCl FEM TO WLAN PDTS 47 49

OMIT'S:PP2200 W
P20MM-NSM
ROOM=WLAN

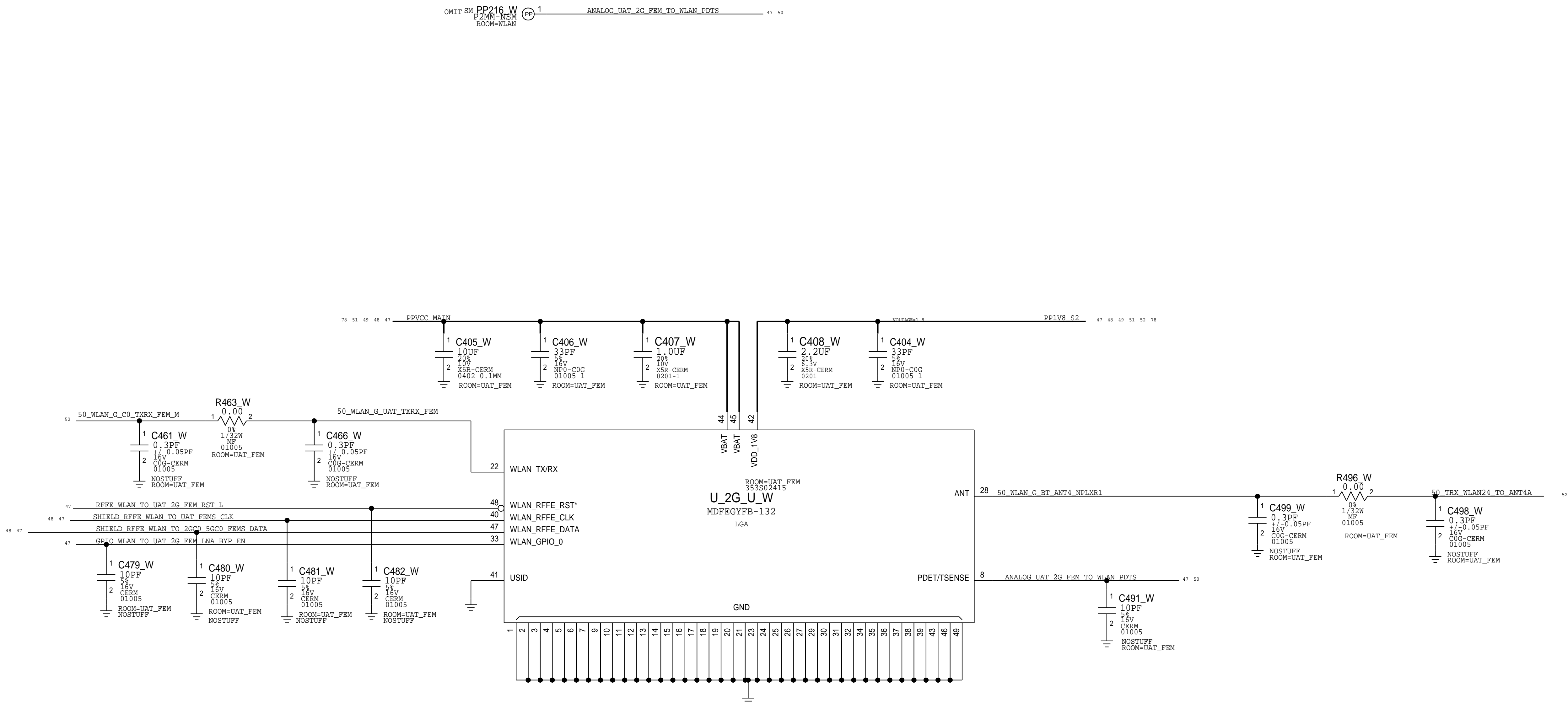
1 SHIELD RFFE WLAN TO LAT FEMS CLK 47 49 51

OMIT'S:PP2210 W
P20MM-NSM
ROOM=WLAN

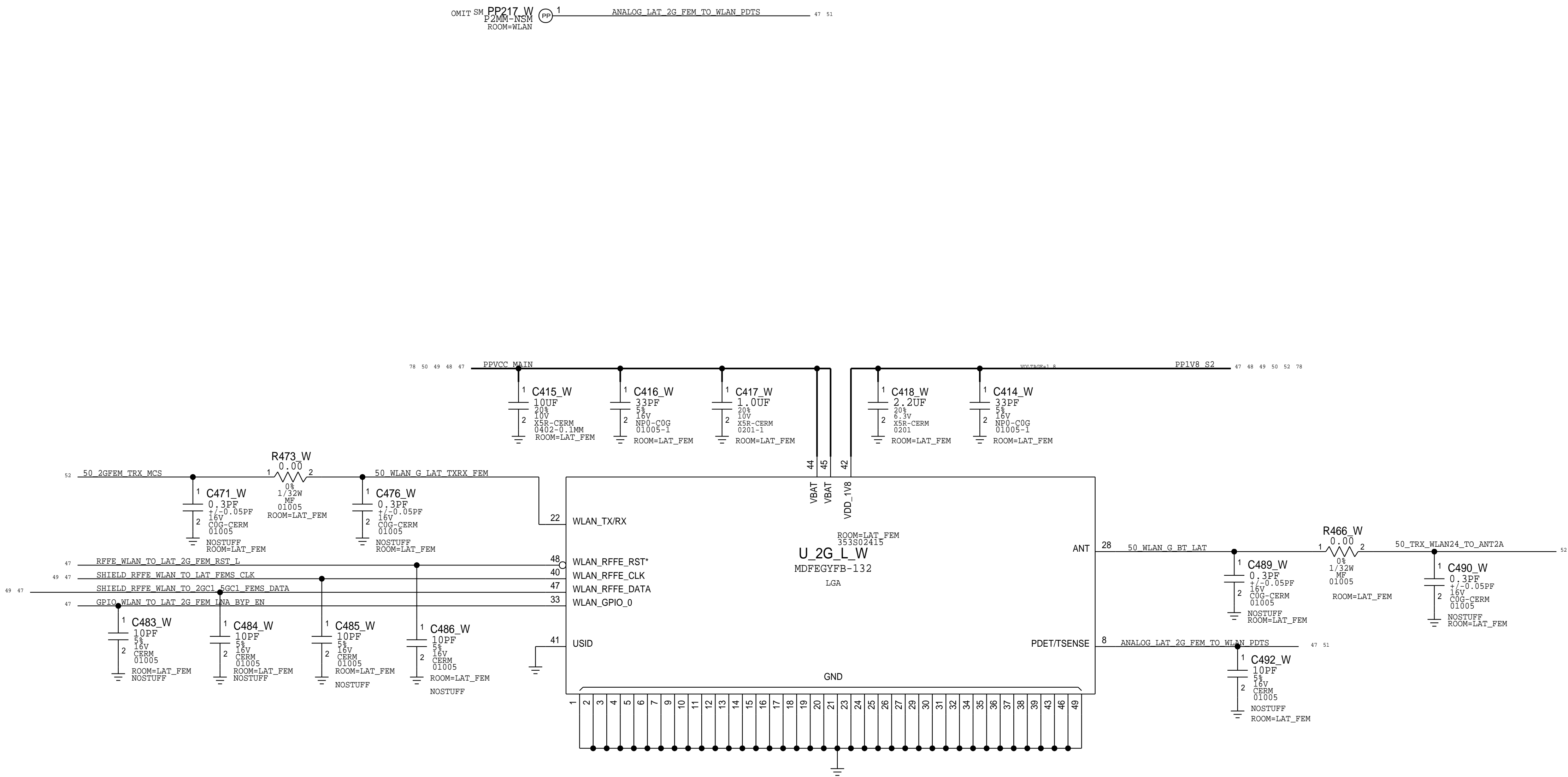
1 SHIELD RFFE WLAN TO 2GCl 5GCl FEMS DATA 47 49 51



UAT 2.4 GHZ RFEM



LAT 2.4 GHZ RFEM



J517 FRONT END

D

C

B

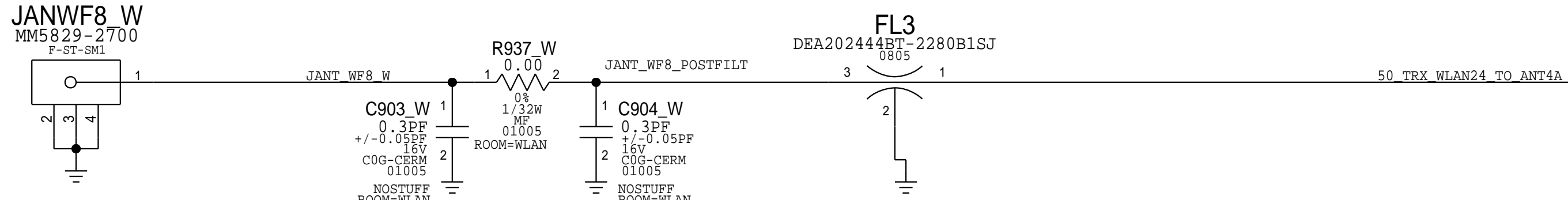
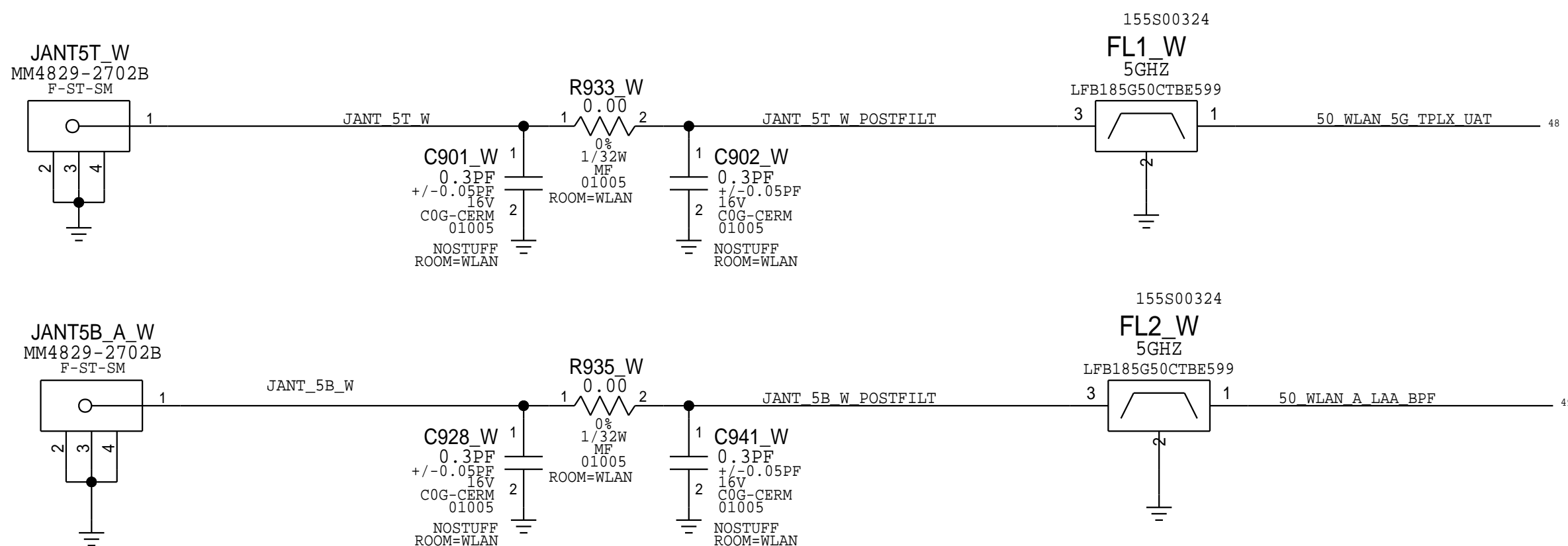
A

D

C

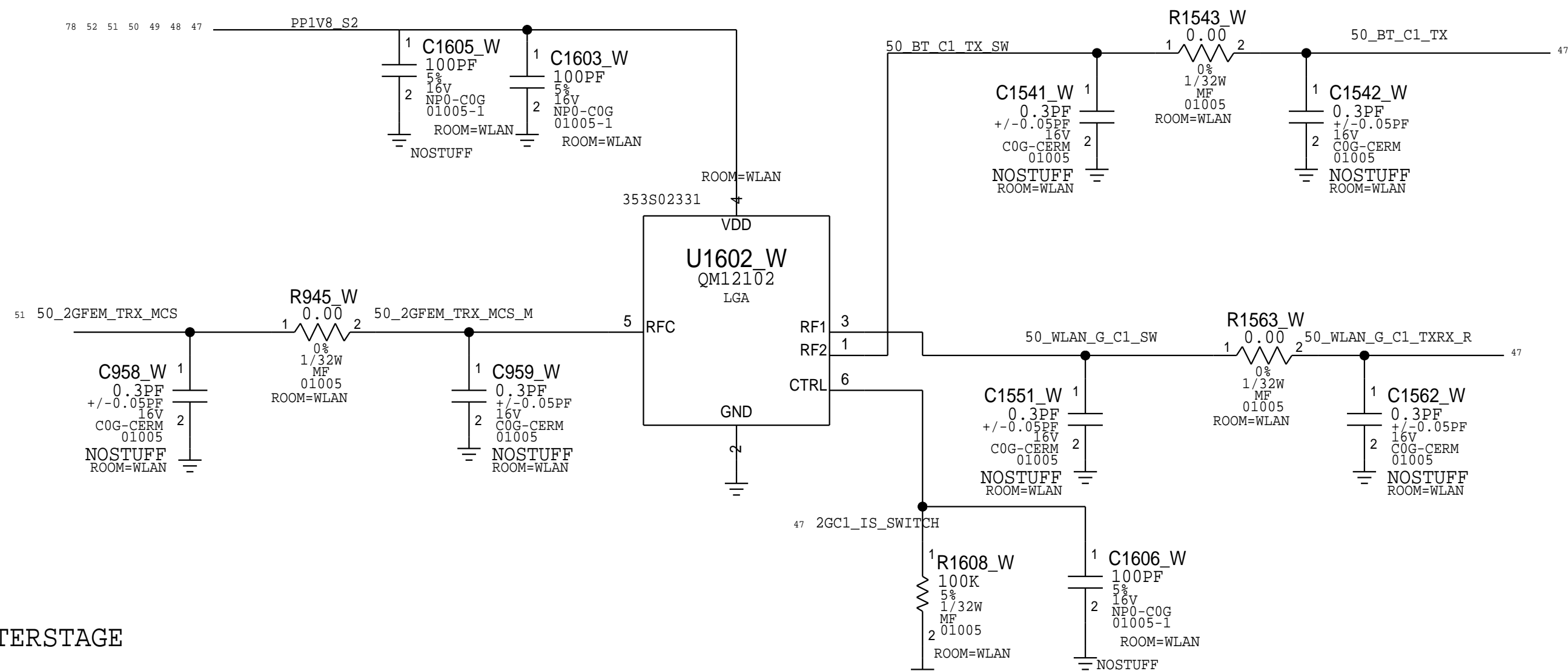
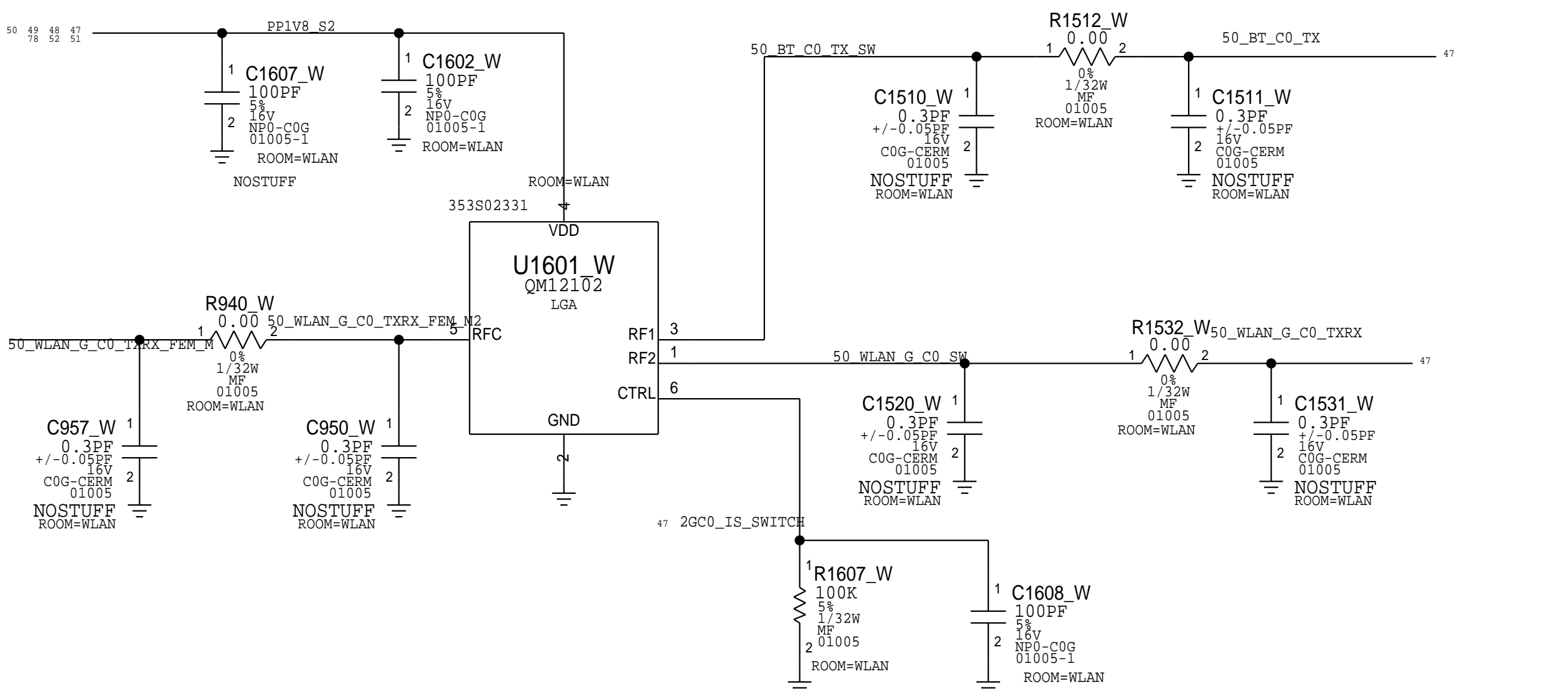
B

A

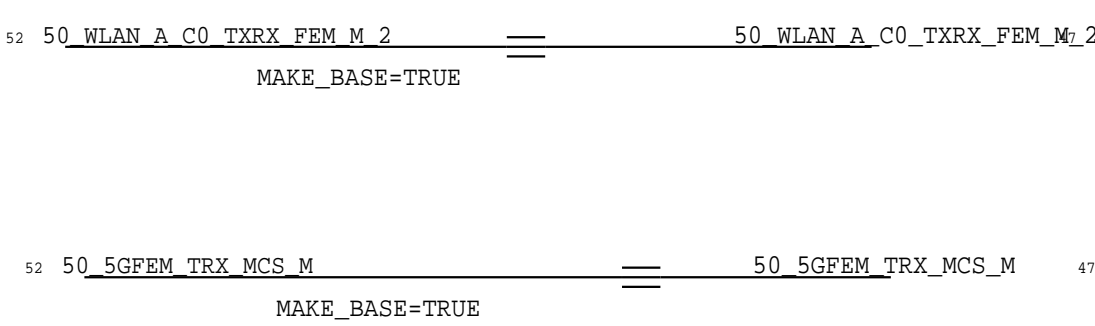
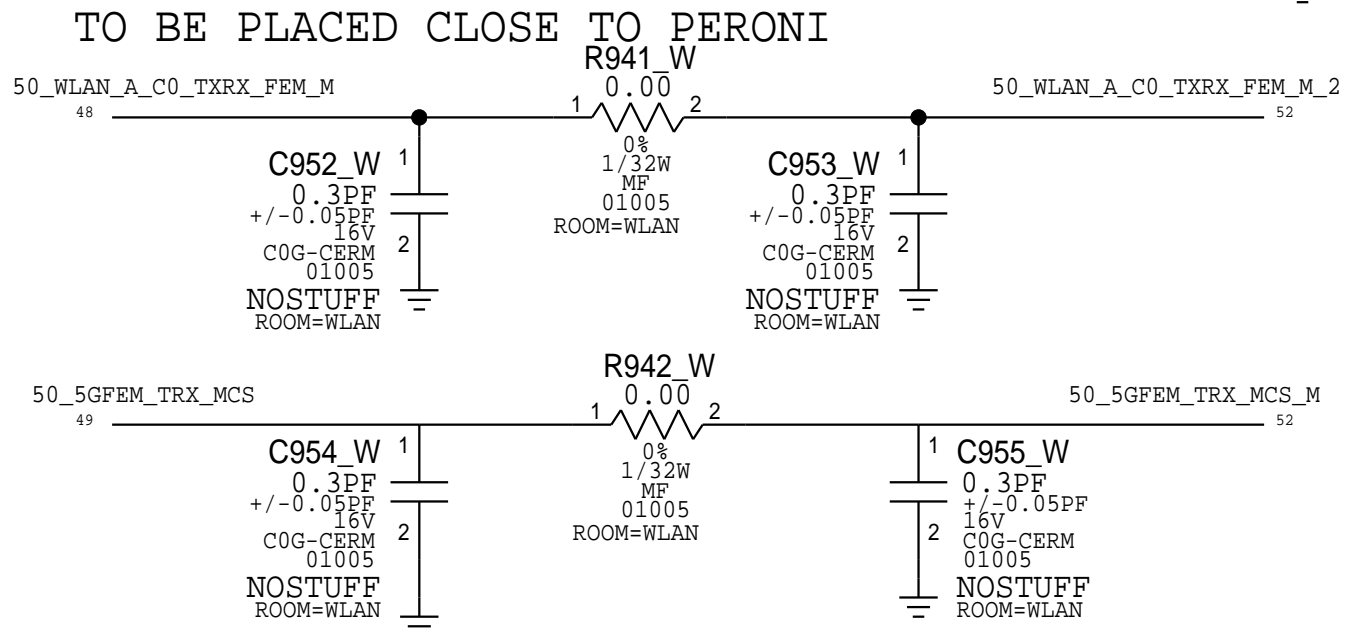


2G INTERSTAGE C0

2G INTERSTAGE C1



5G INTERSTAGE



SYNC_MASTER=J517_WIFI_MLBBNVCOS73GROUP=WIFI SYNC_DATE=08/24/2020

PAGE TITLE

J517 Front End

D



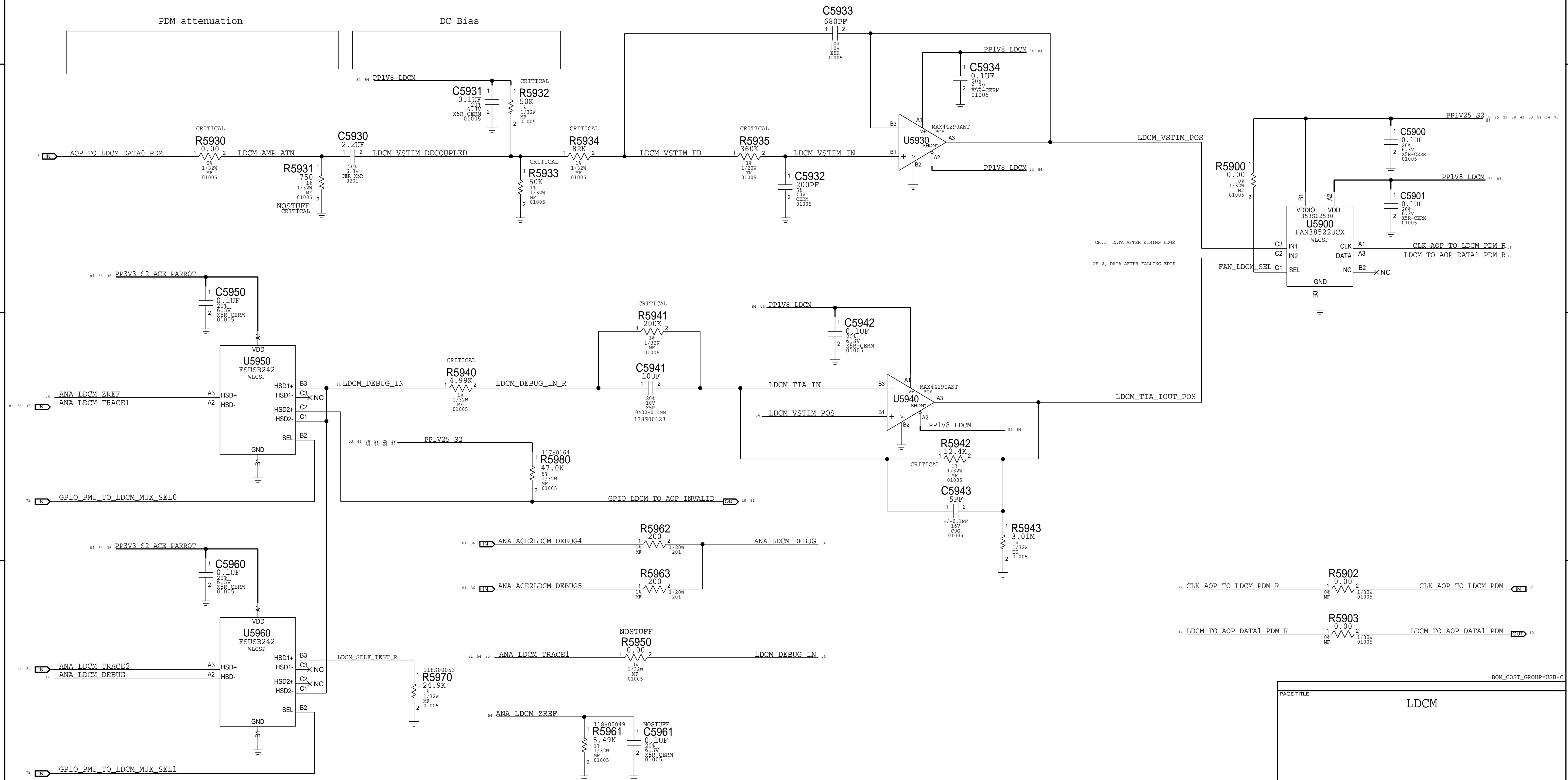
C

B

A

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0914	138S00109		C5930	2.2UF 6.3V 0201 MUR.

LDCM



D

C

B

A

D

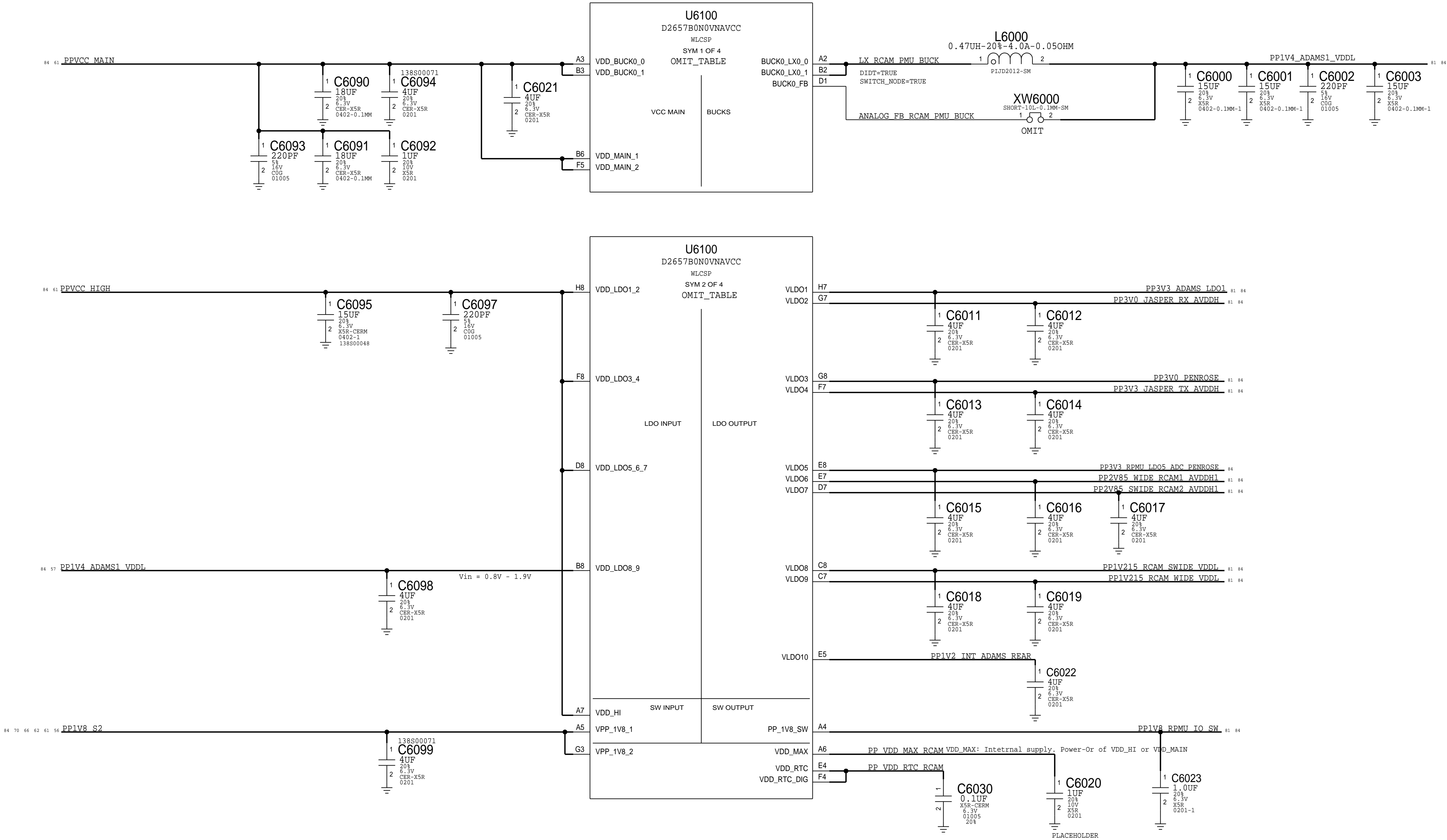
C

B

A

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
152S00992	152S00985	L6000	0.47UH 4A 2012 TAIYO	

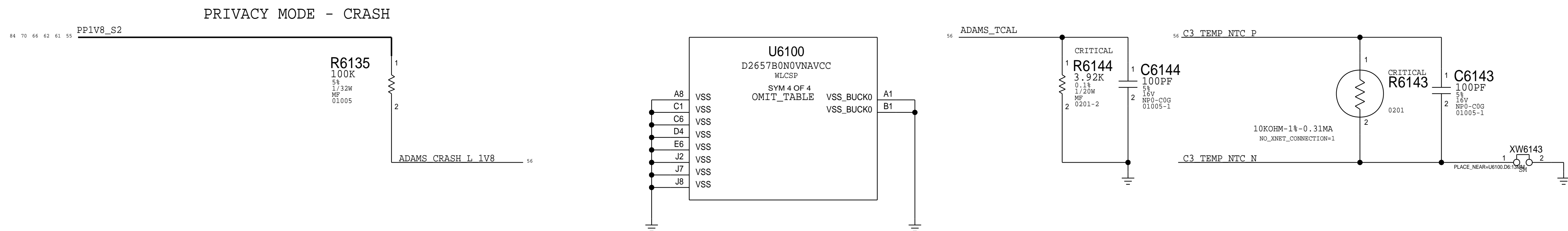
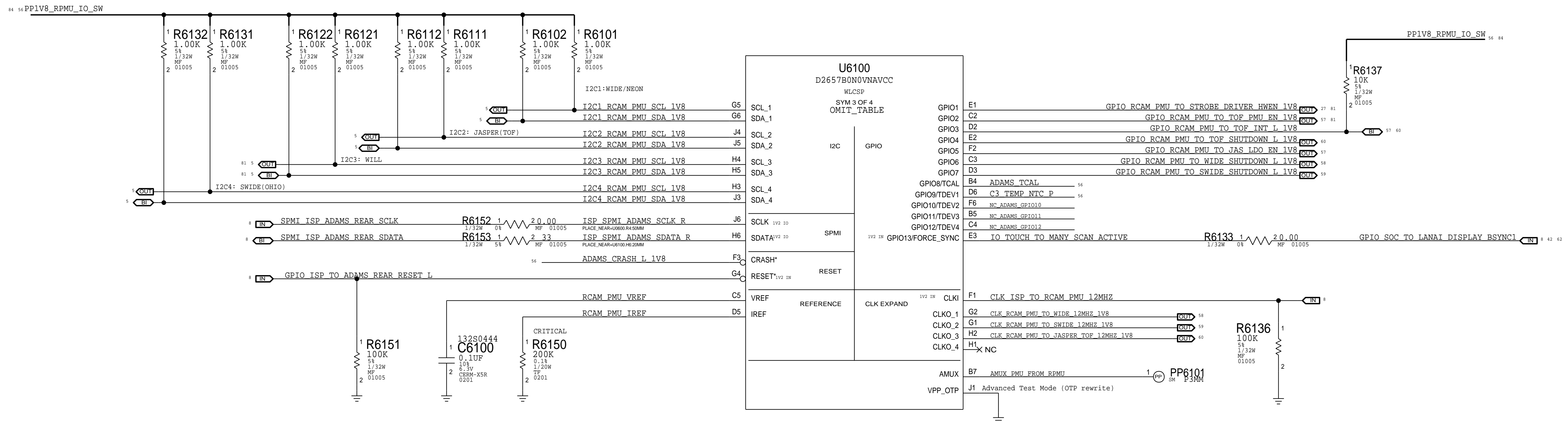
RCAM ADAMS PMU

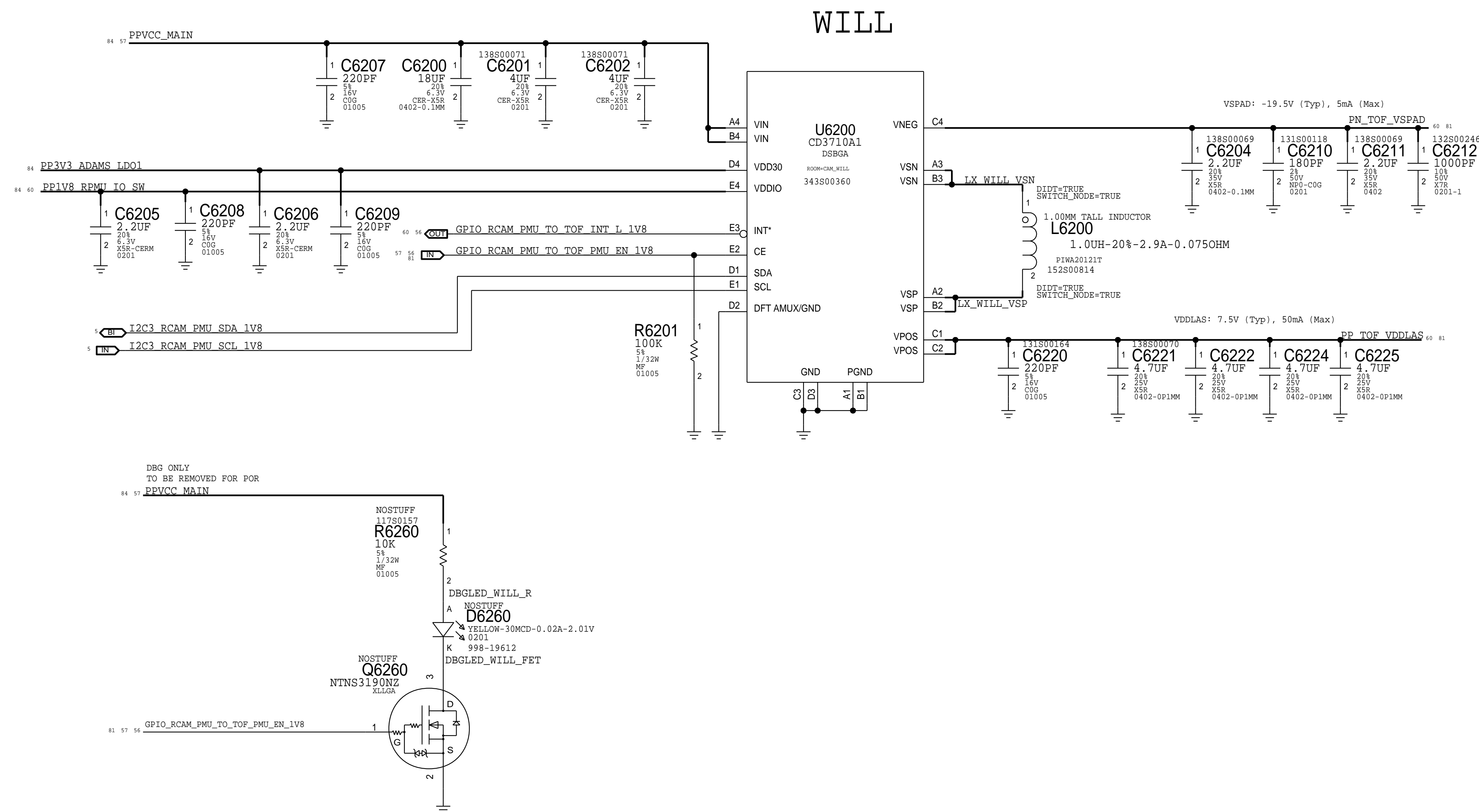


BOM_COST_GROUP=CAMERA

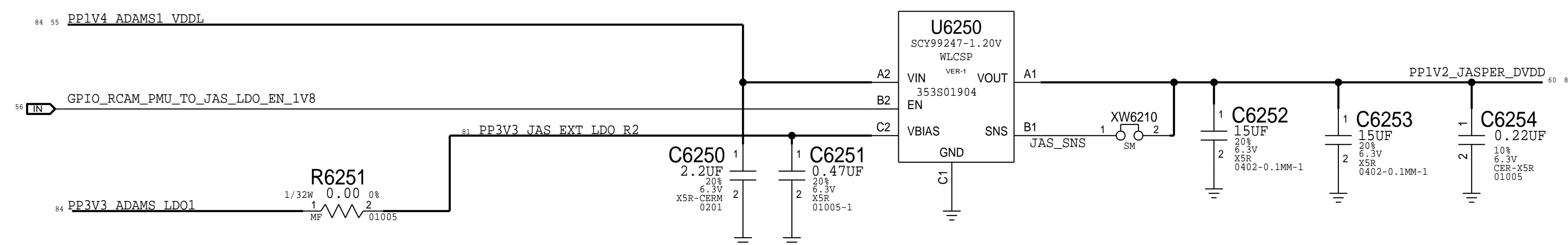
PAGE TITLE
CAMERA: ADAMS REAR POWER (1/2)

RCAM ADAMS PMU IO





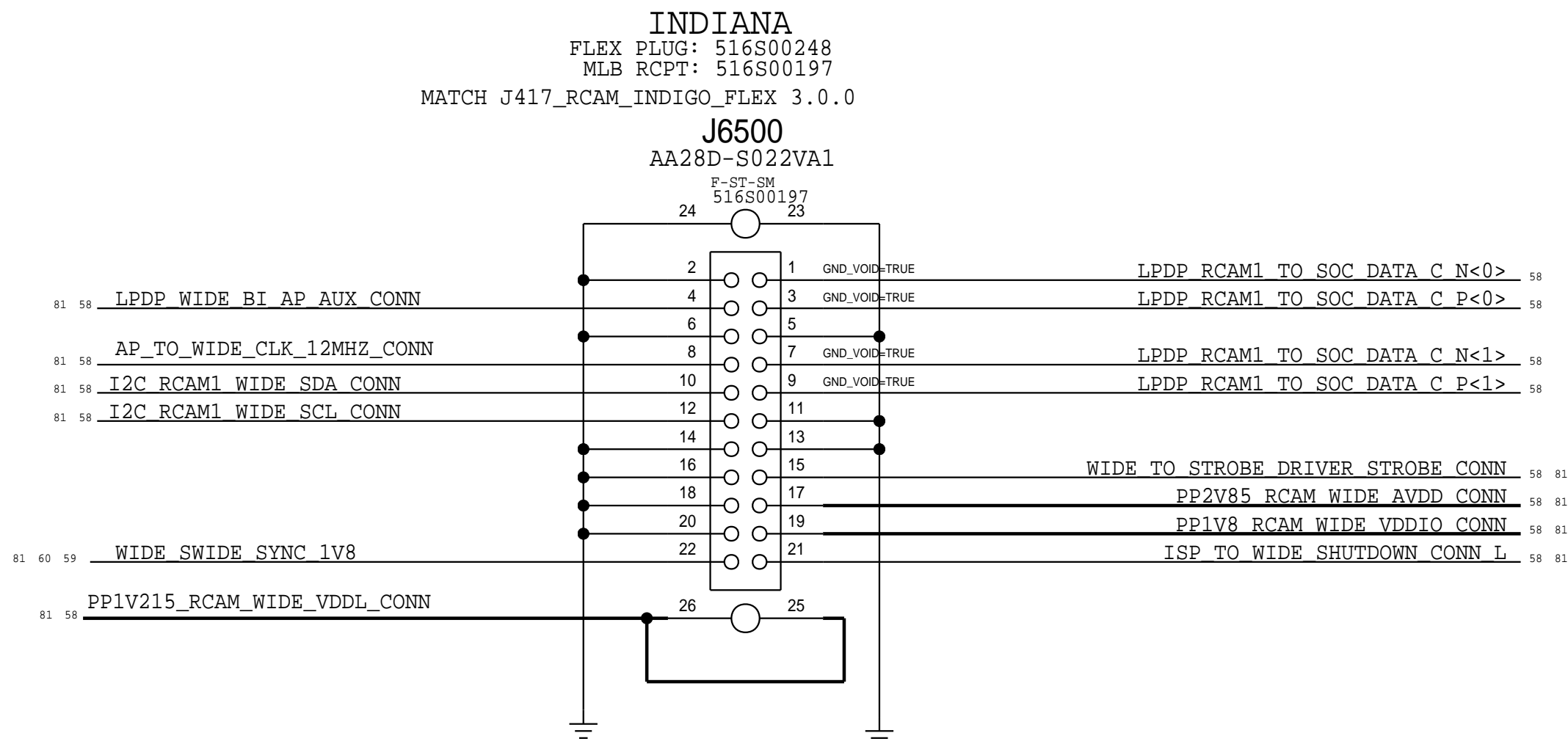
JASPER VDDL LDO



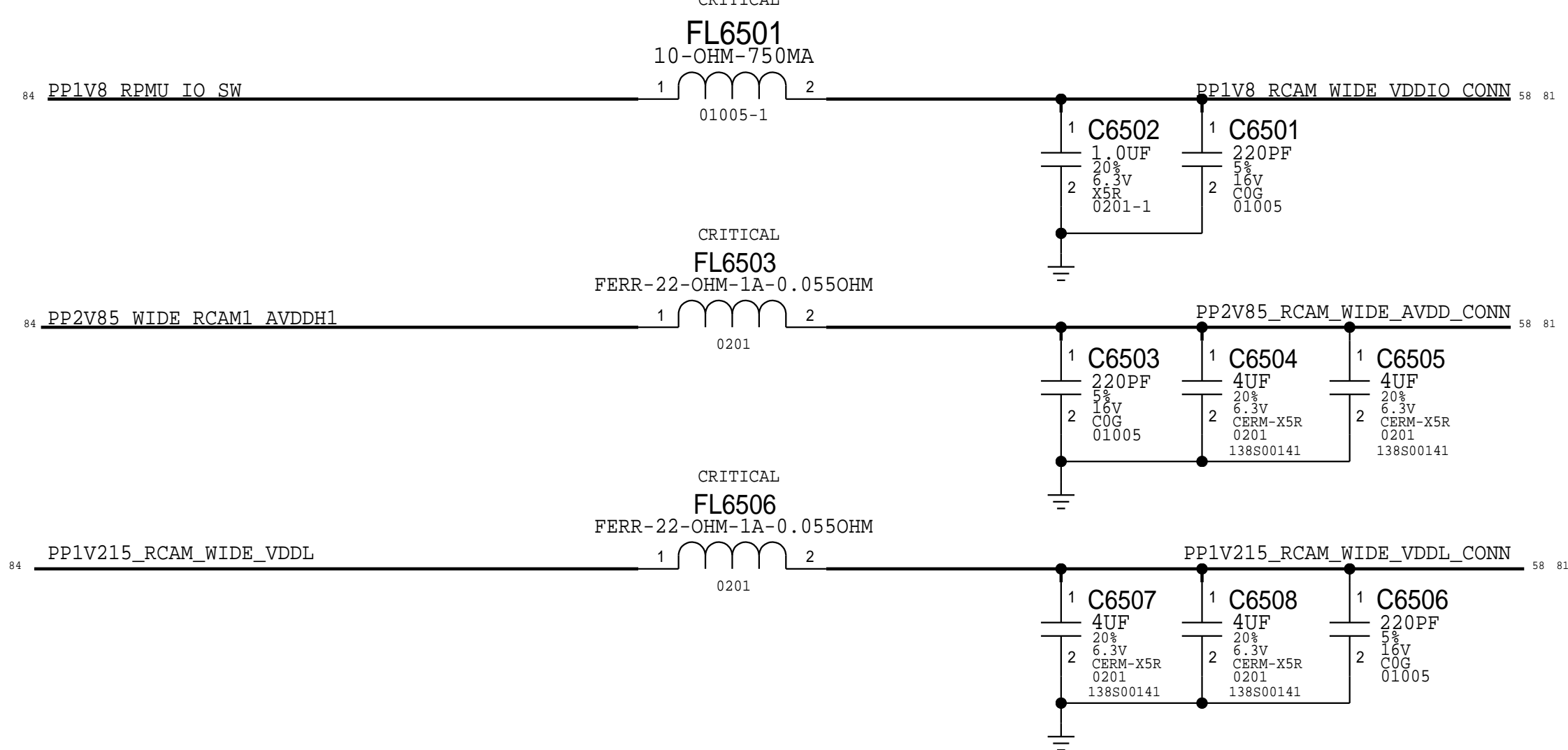
D

D

WIDE RCAM1 B2B



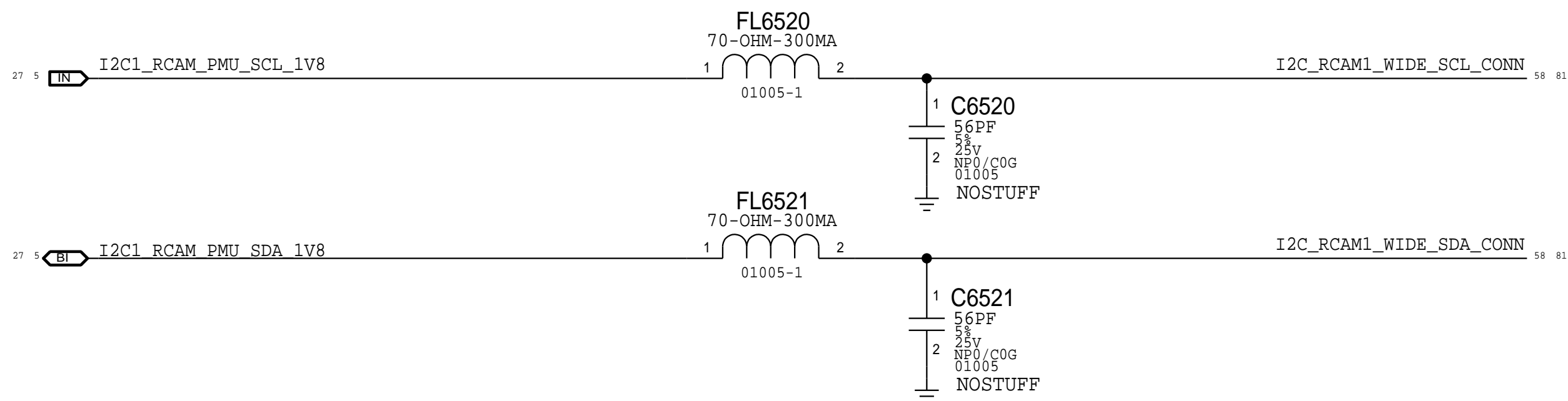
POWER FILTERING



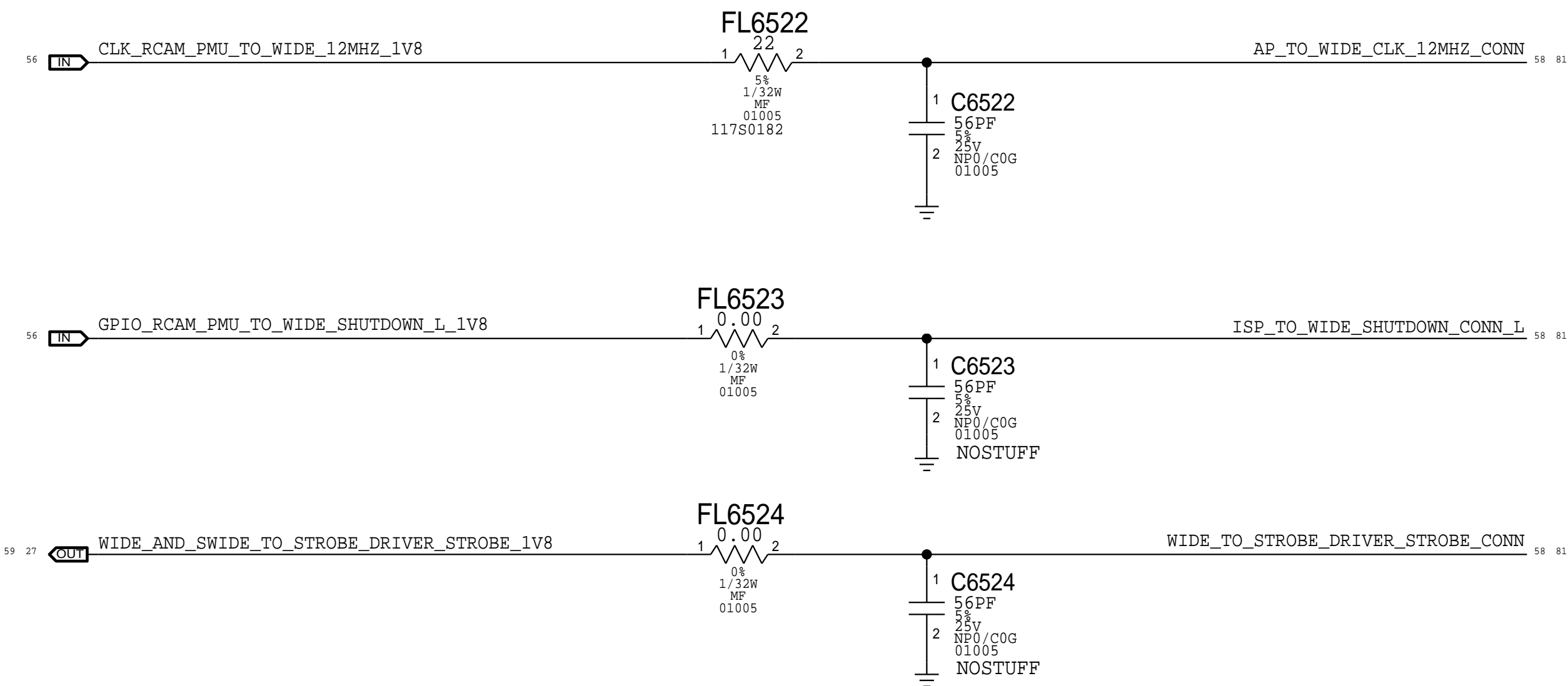
C

C

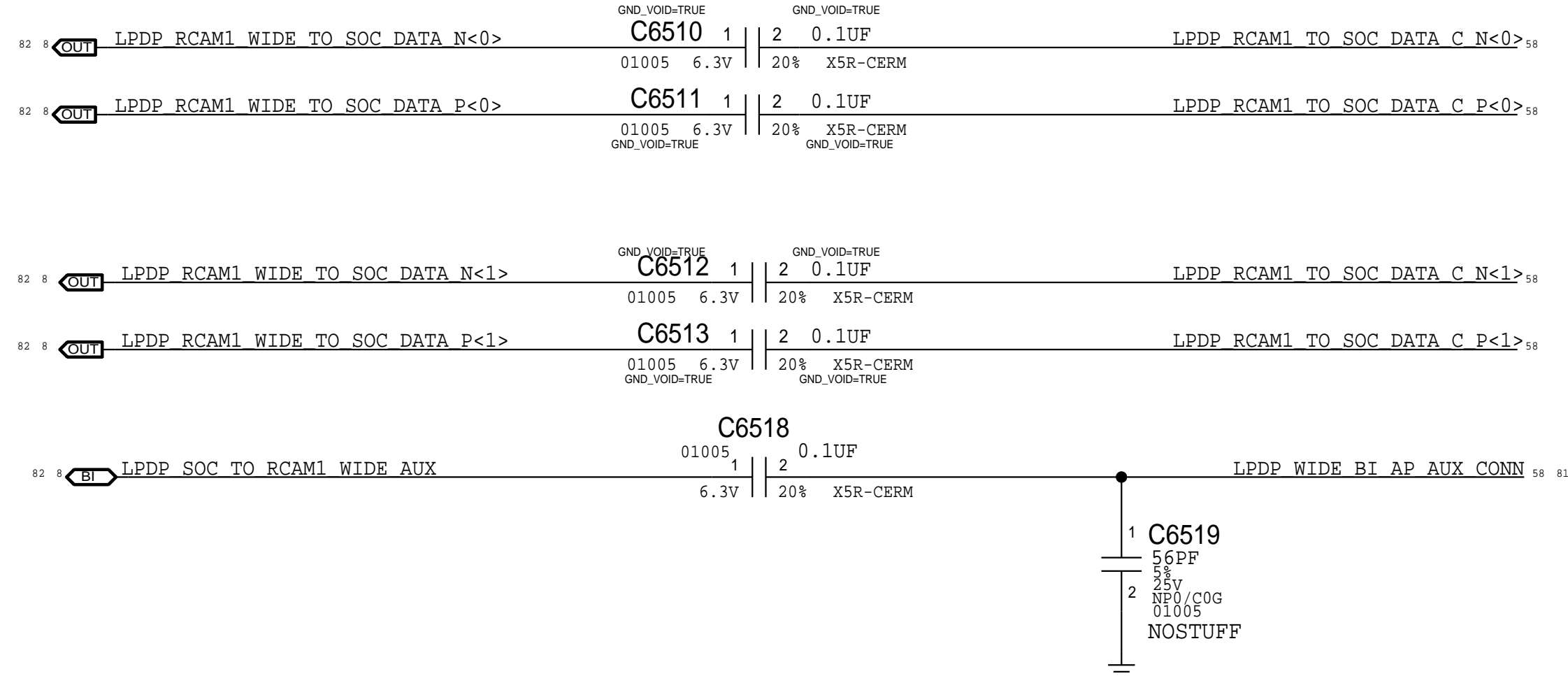
ISP I2C



IO FILTERS



LPDP FILTERS



B

B

A

A

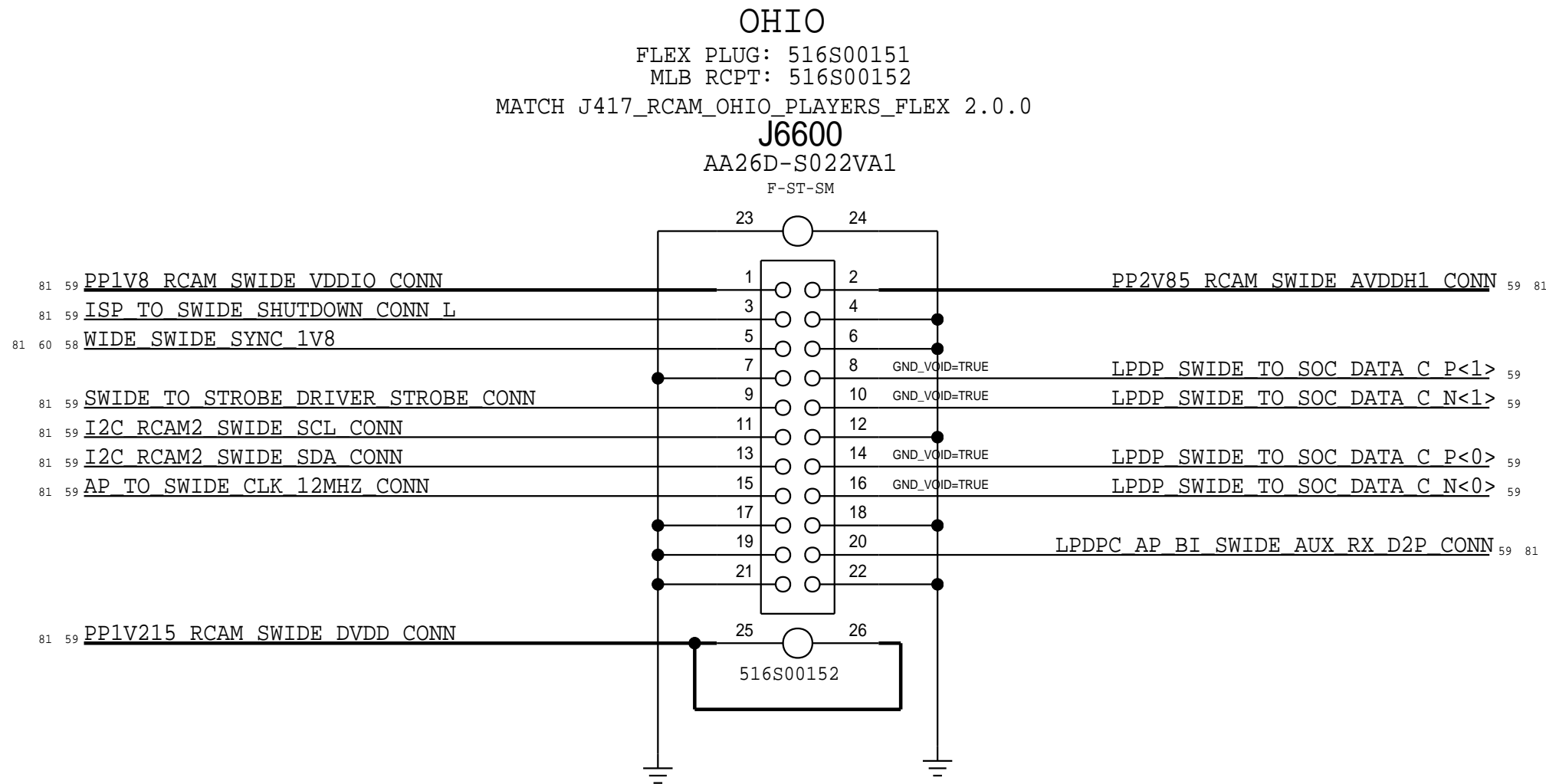
BOM_COST_GROUP=CAMERA

CAMERA: B2B RCAM1 WIDE

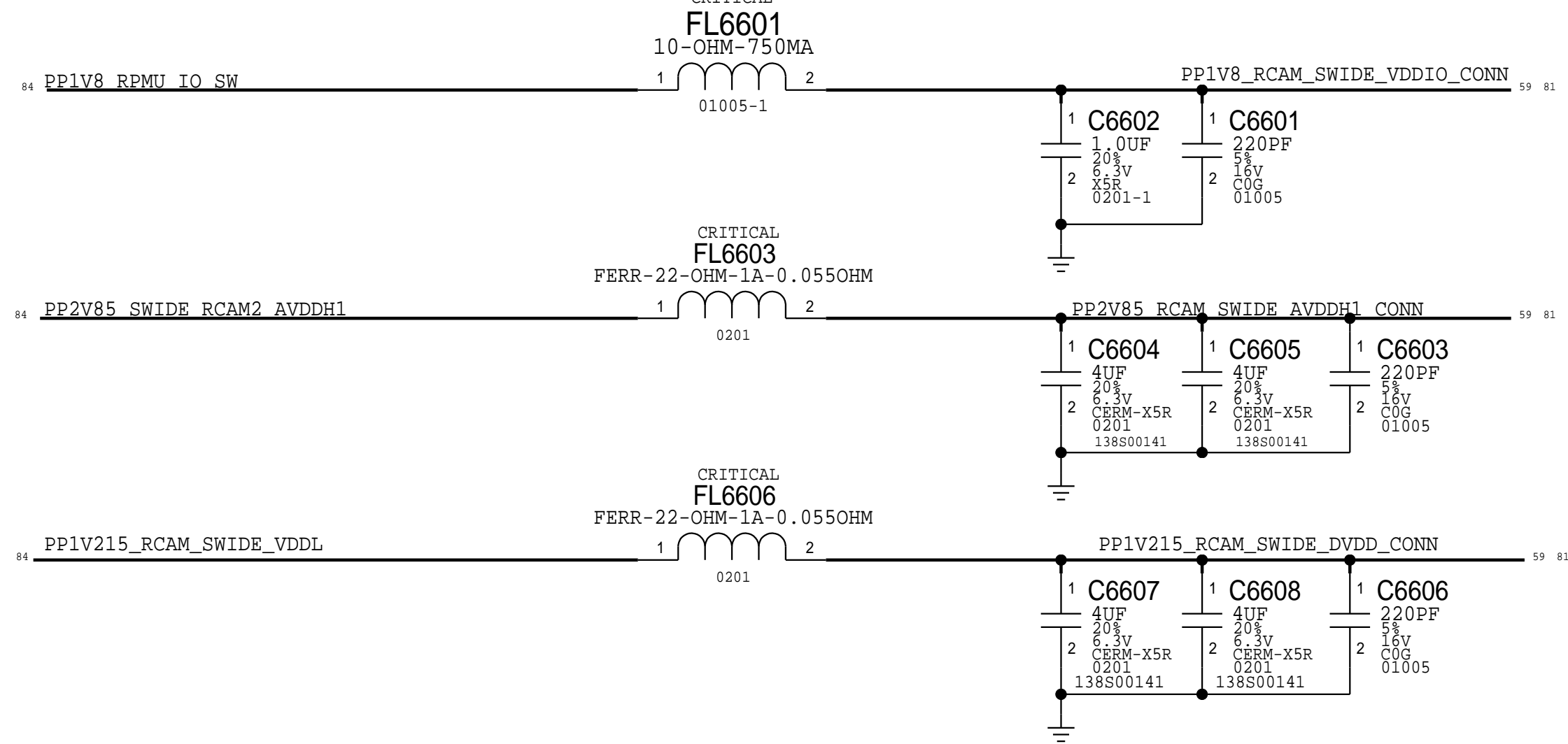
D

D

SWIDE RCAM2 B2B



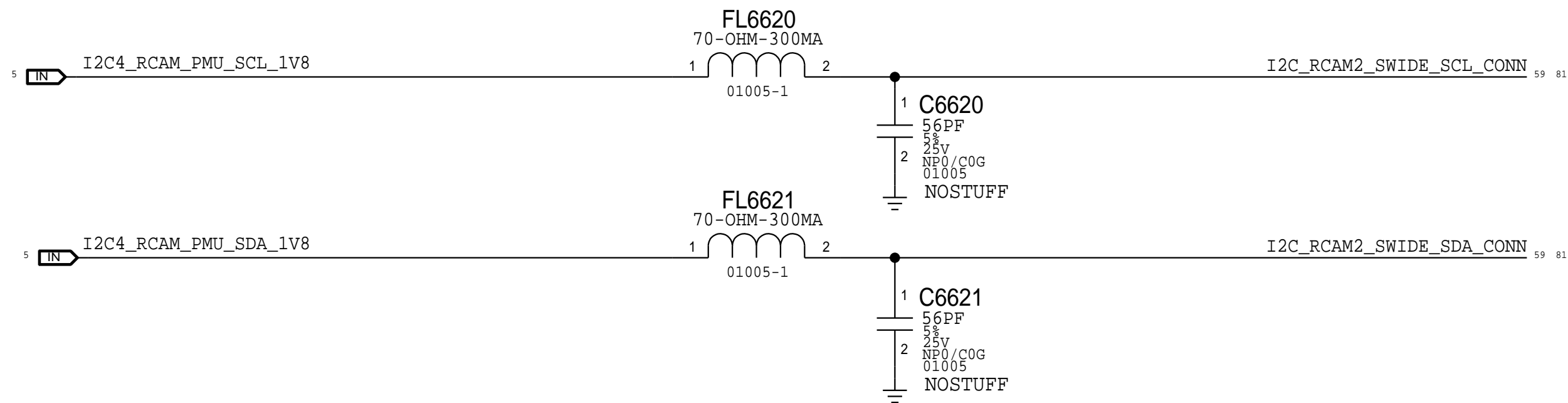
POWER FILTERING



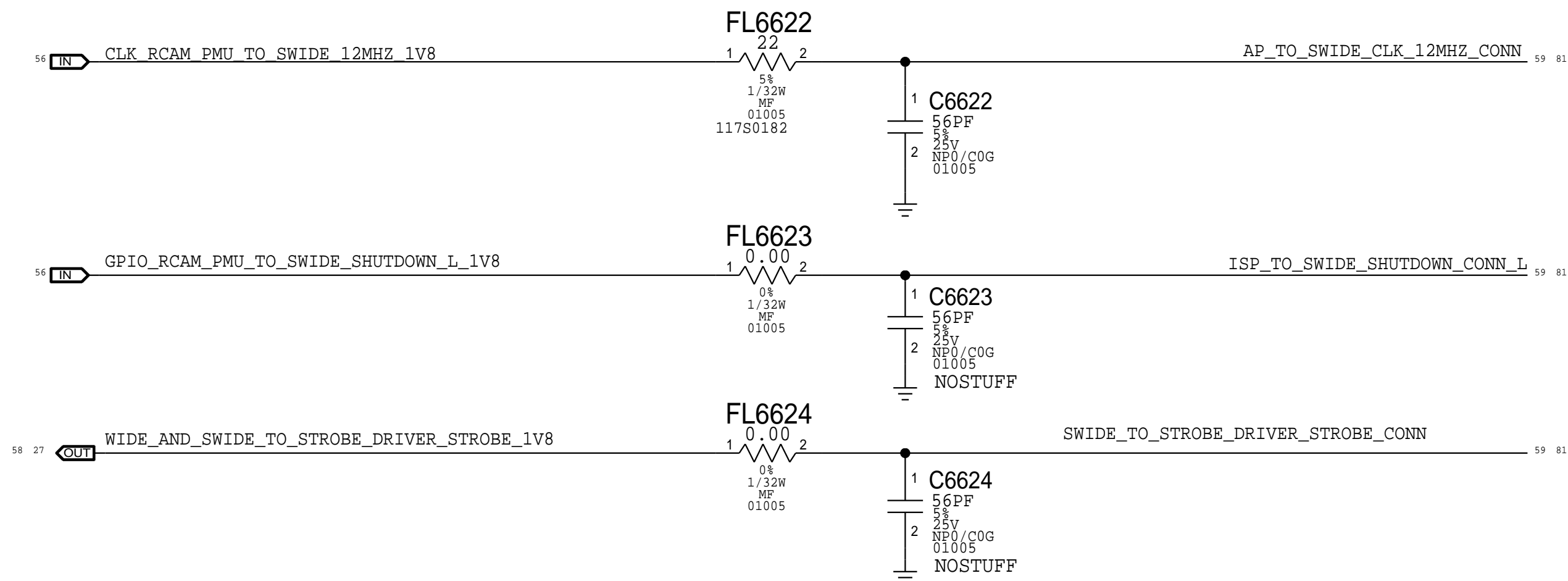
C

C

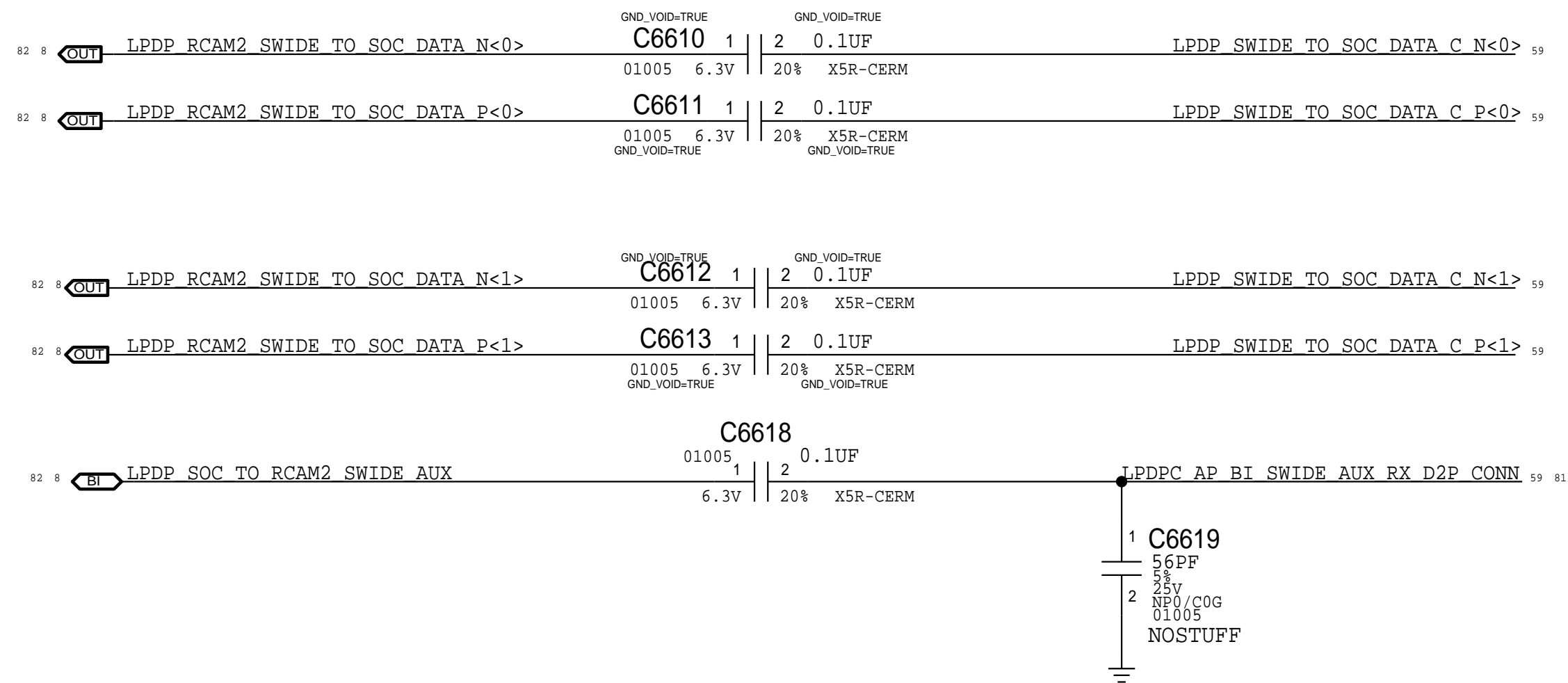
ISP I2C



IO FILTERS



LPDP FILTERS



A

A

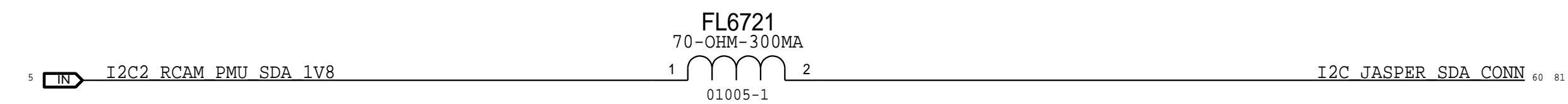
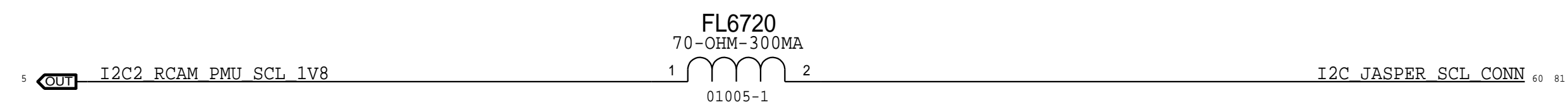
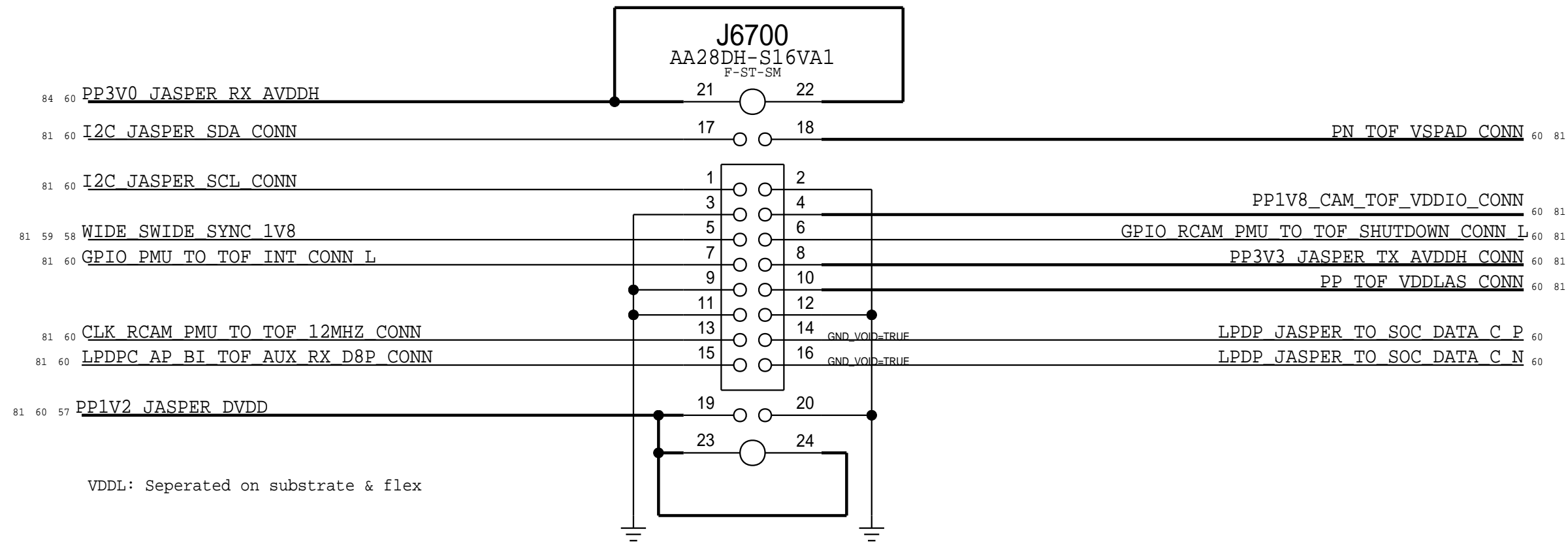
BOM_COST_GROUP=CAMERA

PAGE TITLE

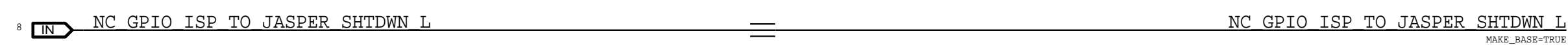
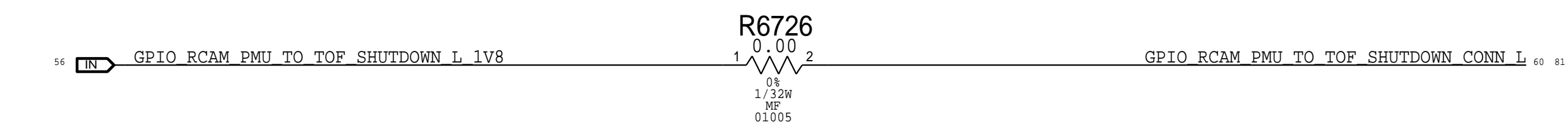
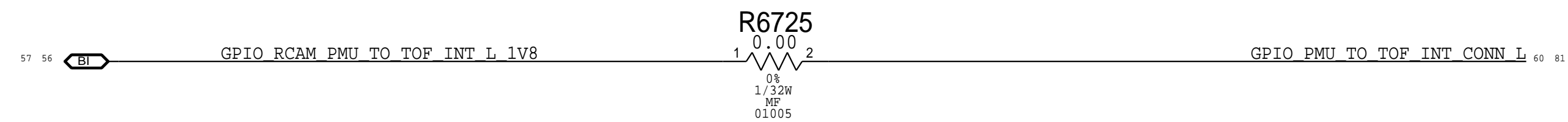
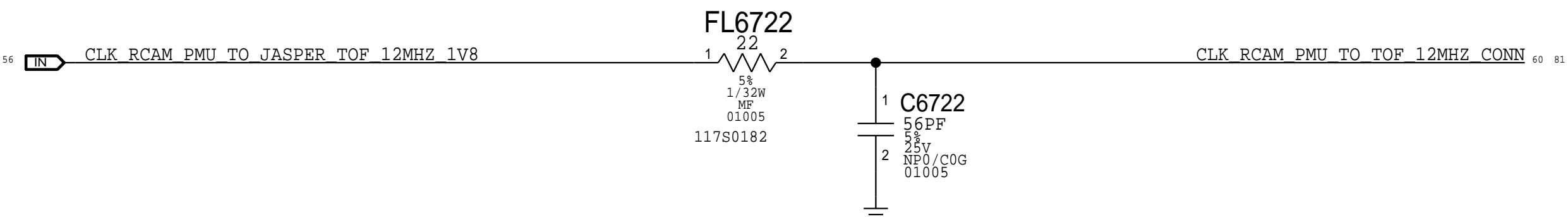
CAMERA: B2B RCAM2 SWIDE



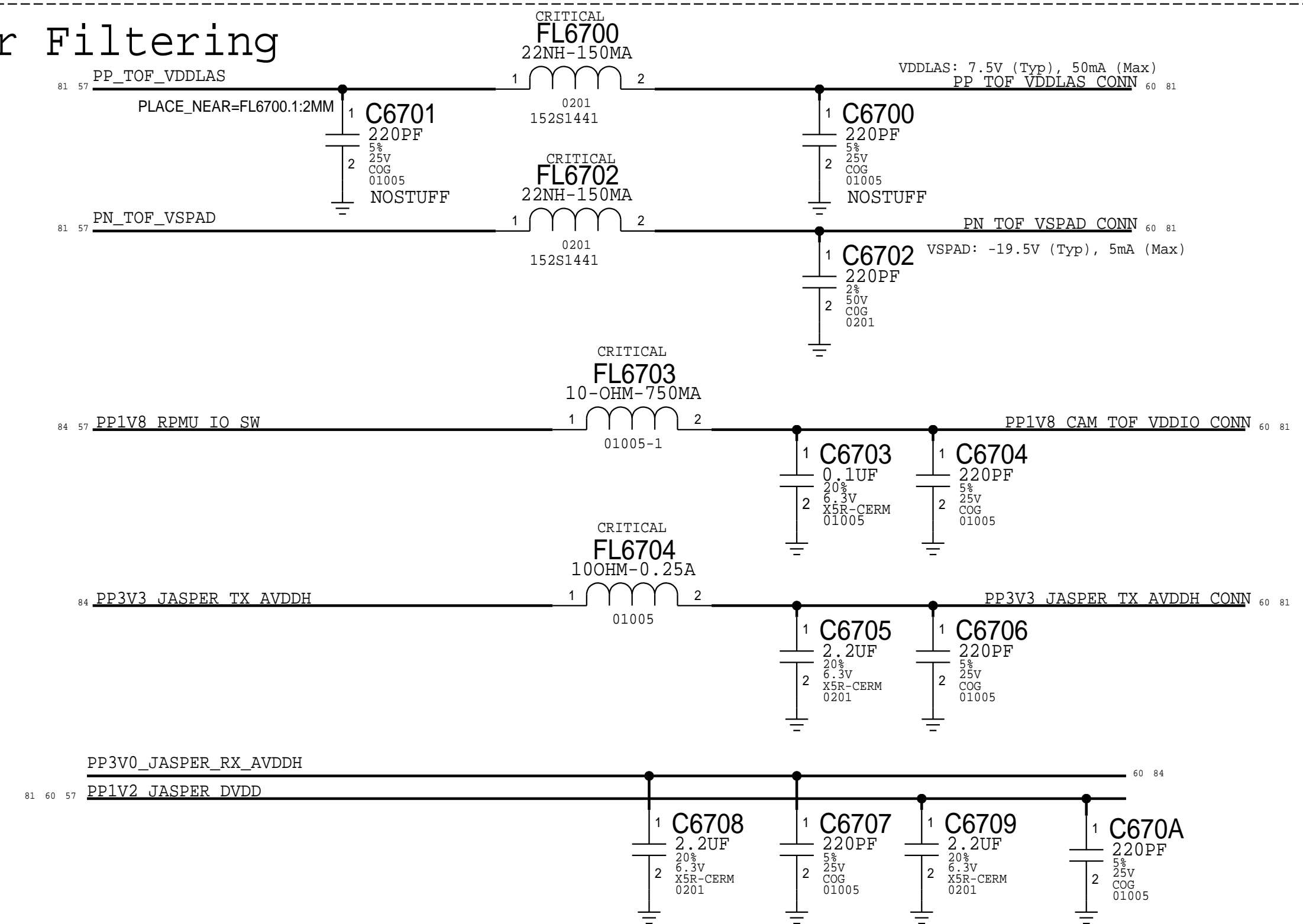
MATCH JASPER_FLEX 1.2.0
MLB RCPT: 516S00483
FLEX PLUG: 516S00484



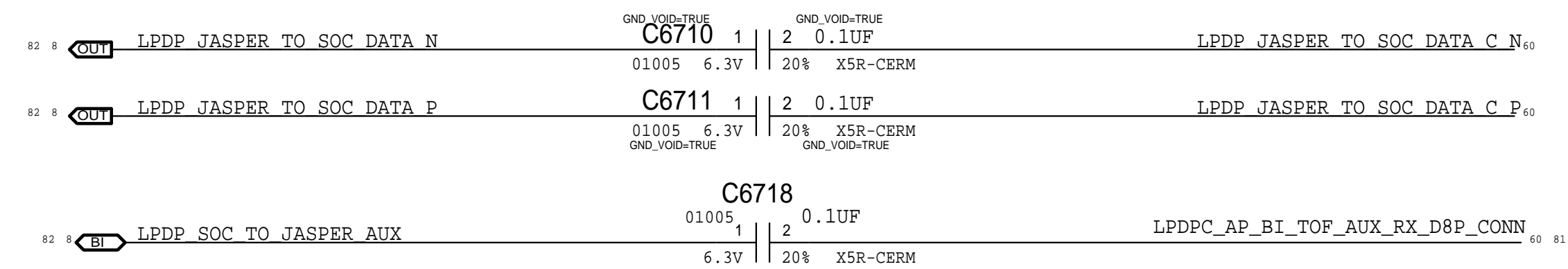
IO Filters



Power Filtering



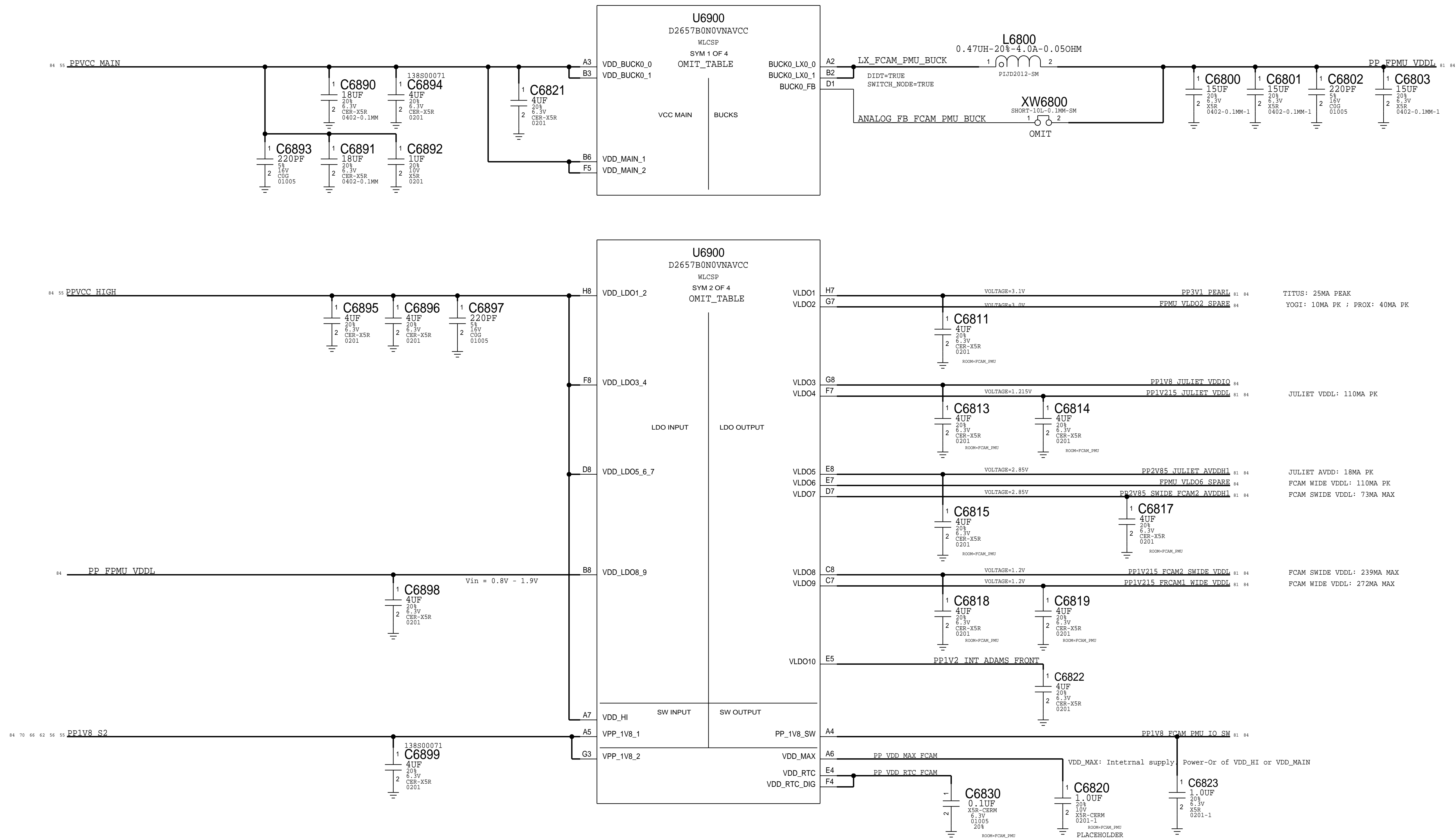
LPDP Filters



OM_COST_GROUP=JASPER

PAGE TITLE

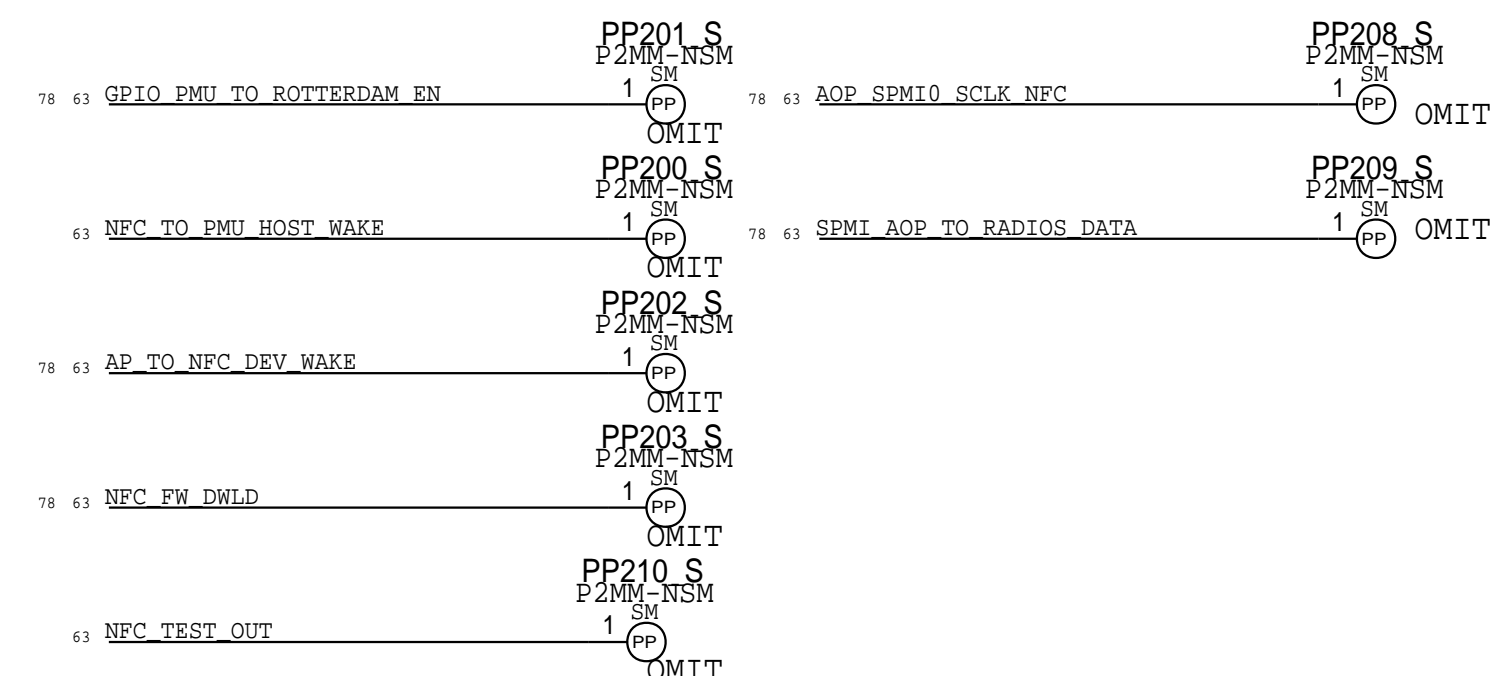
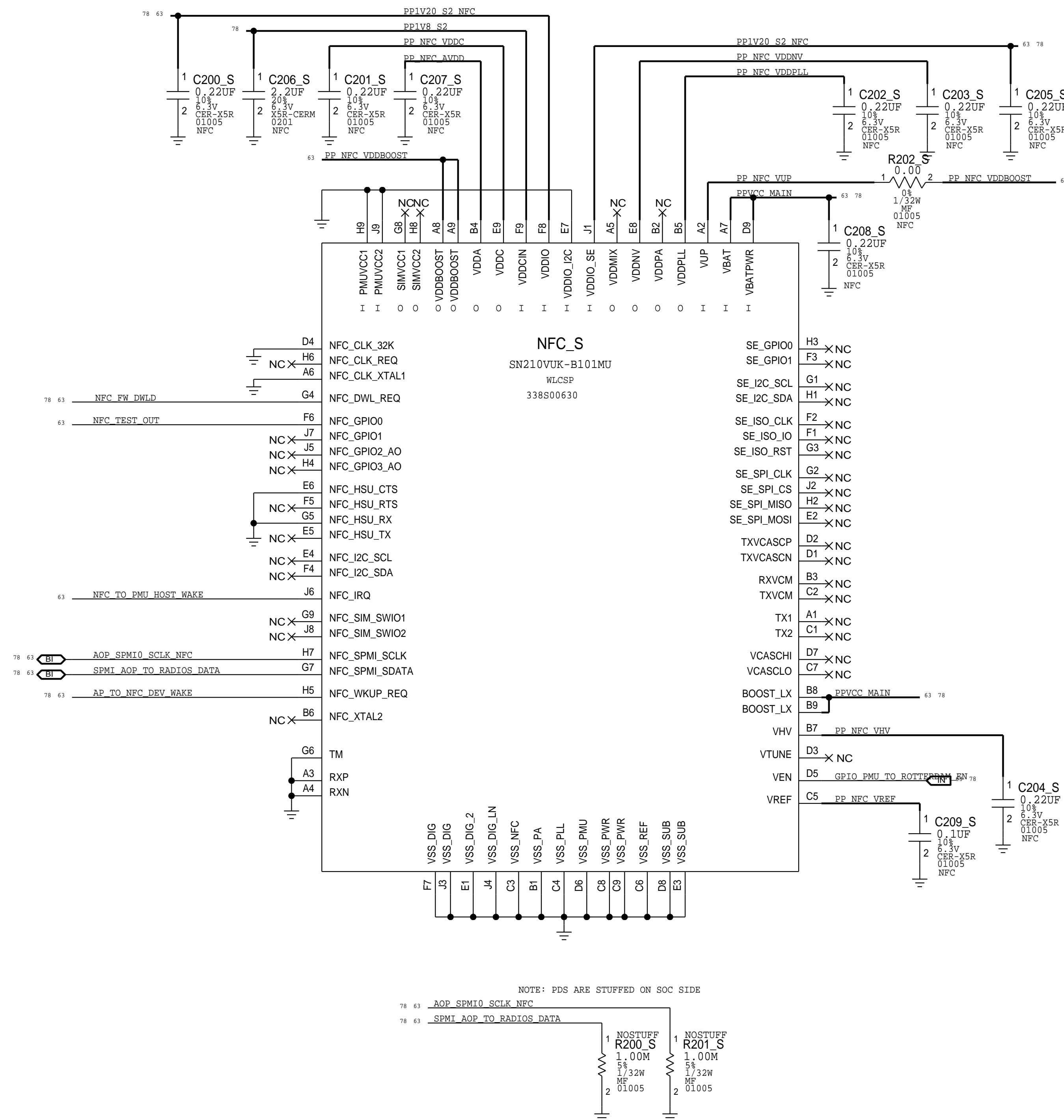
CAMERA: B2B JASPER



STOCKHOLM

NFC CONTROLLER

FORMAL S.F. 30	NET RULE ASSIGNMENT	
	CONSTRAINT SET	COMMA SEPARATED NET NAMES (WILDCARD SUPPORT EX: DDR*)
	P	PWR_300UM PF_NFC*



BOM_COST_GROUP=SECURE_ELEMENT

PAGE TITLE	
------------	--

NFC

D

D

GPM: DMIC GATING

C

C

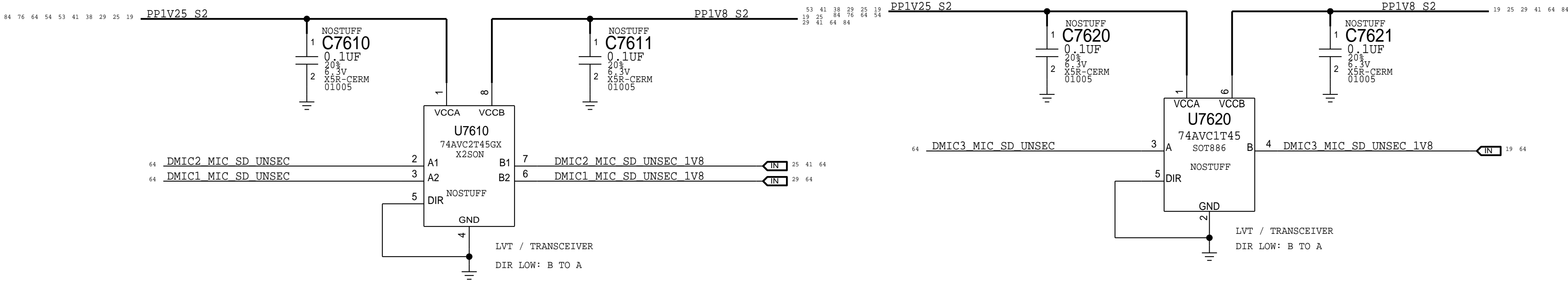
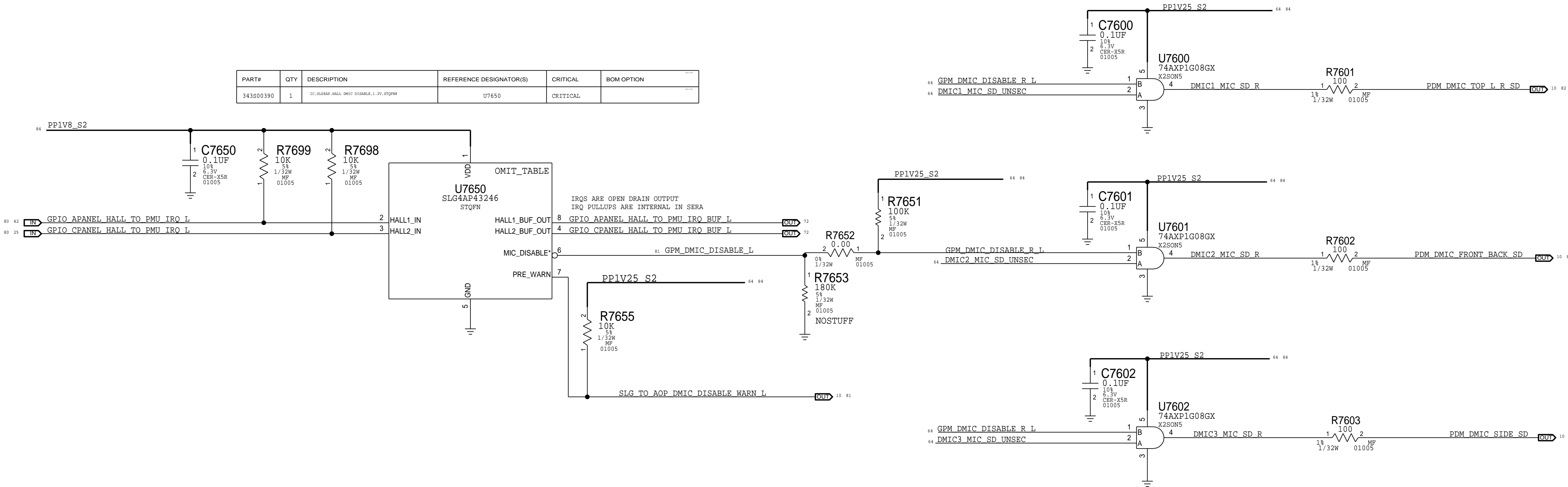
B

B

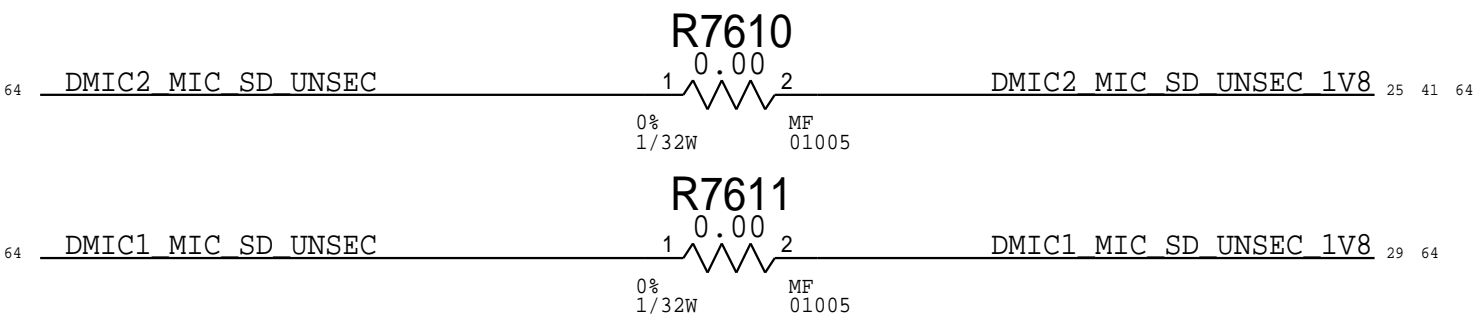
A

A

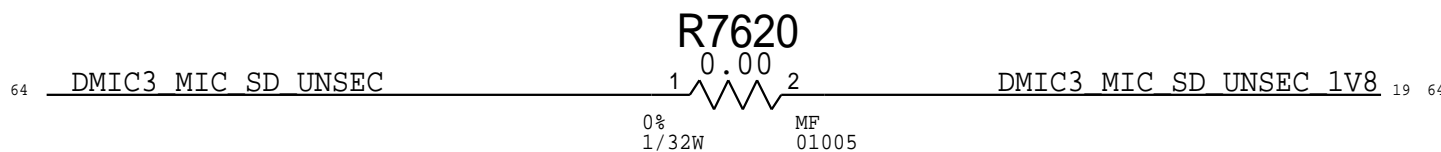
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343S00390	1	IC, ISOCAP, HALL, DMIC, DISABLE, 1.2V, STQFN8	U7650	CRITICAL	



SENTRY JUMPERS



SENTRY JUMPER



BOM_COST_GROUP=AUDIO

PAGE TITLE

GPM

D

C

B

A

D

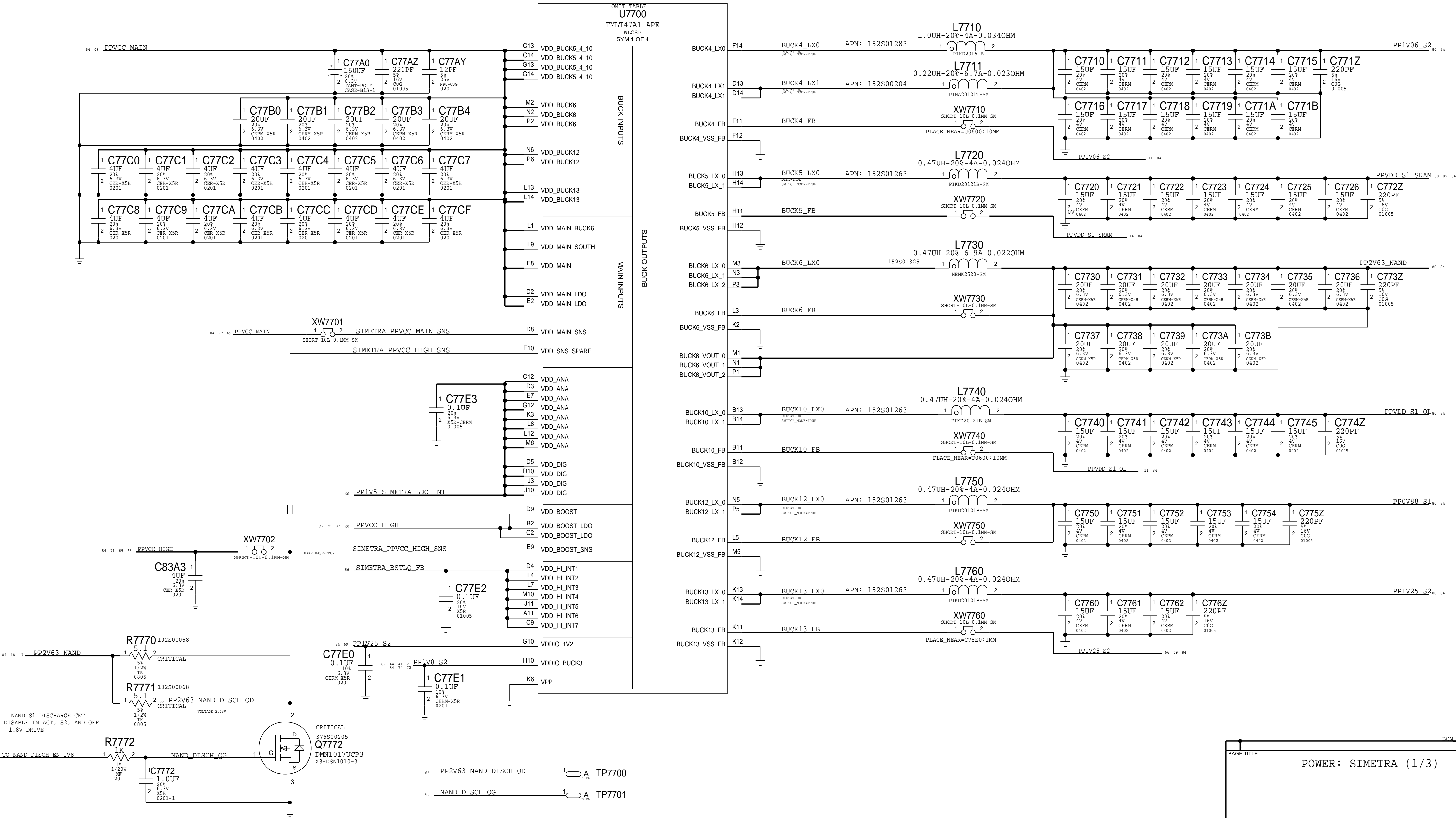
C

B

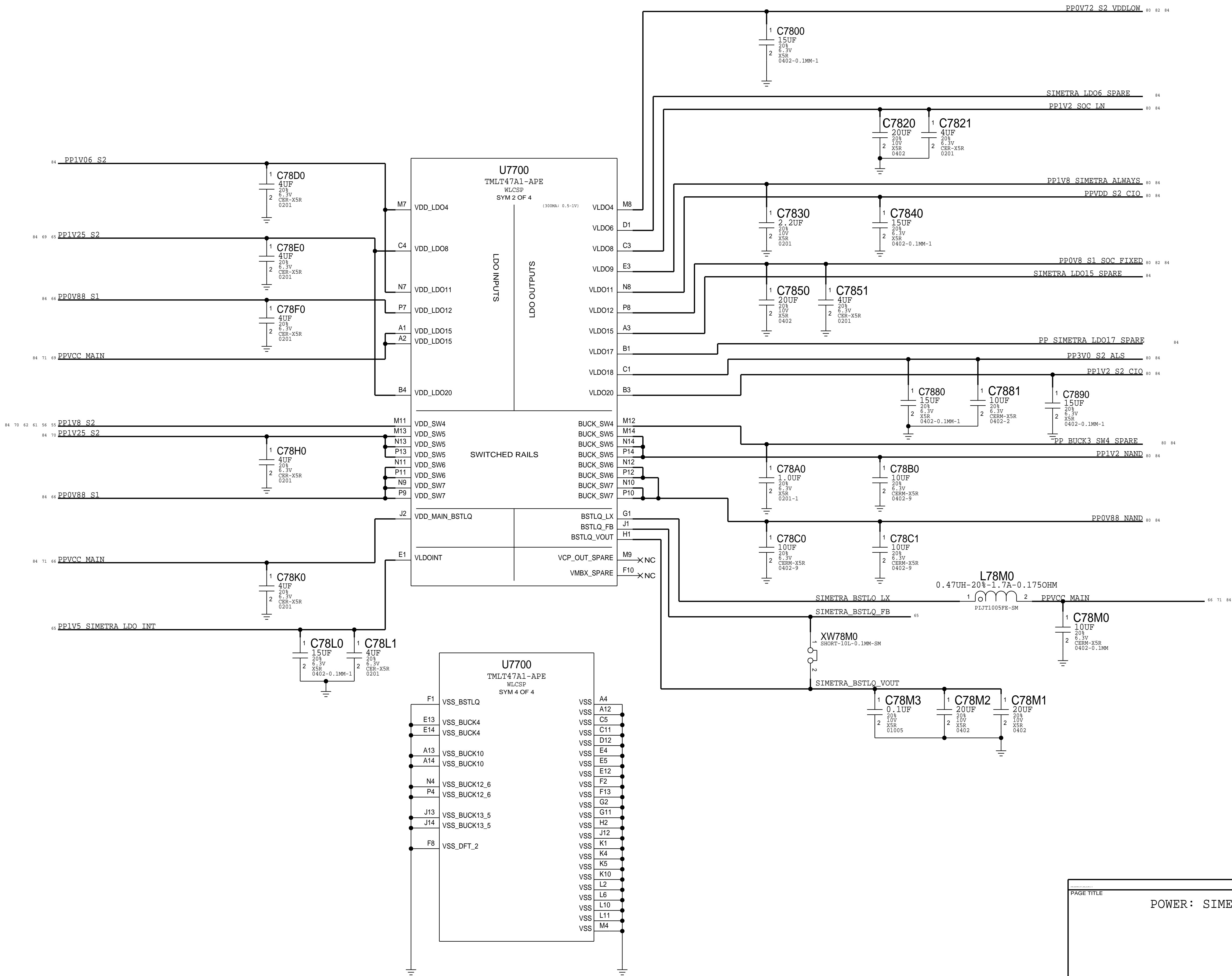
A

SIMETRA PMU (1/3)

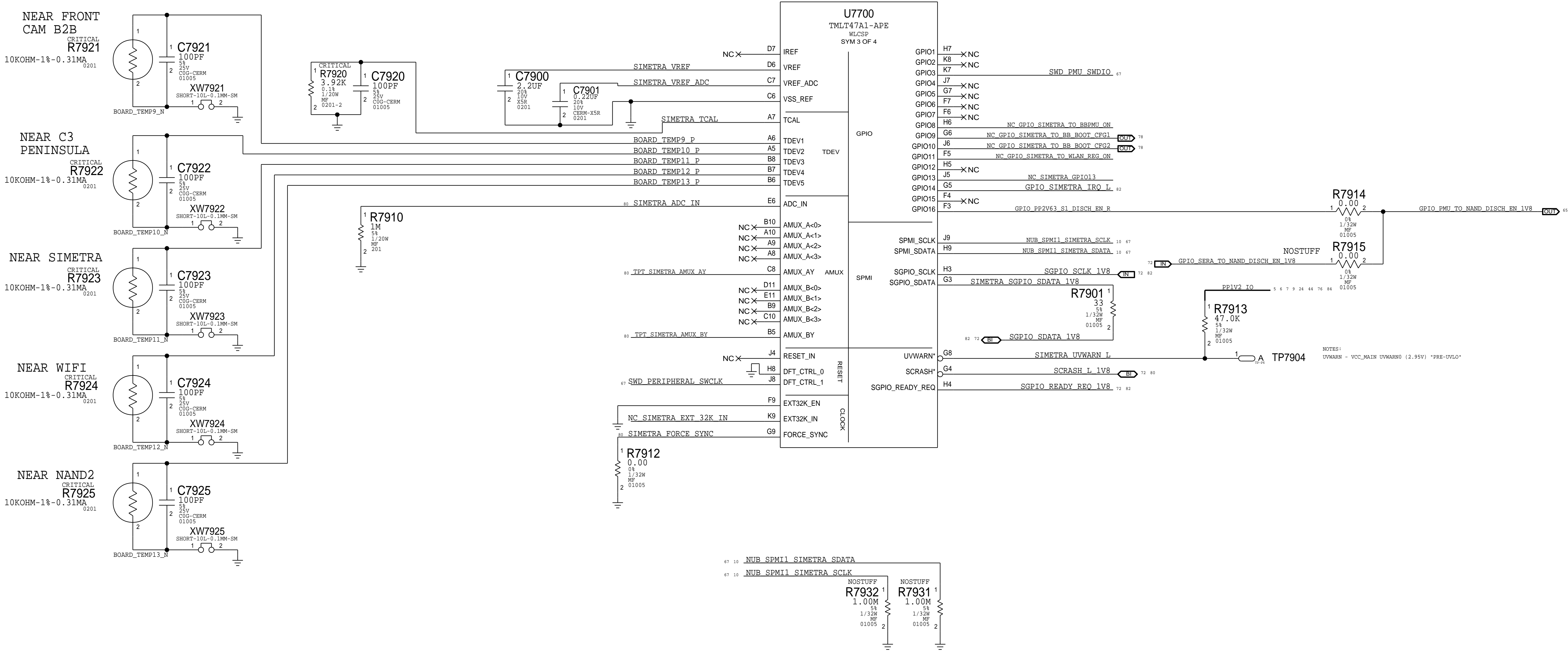
PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
376S00239	376S00205	Q7772	NAND DISCH NFET	
152S00839	152S01325	L7730	BUCK6 IND	



SIMETRA PMU (2/3)



SIMETRA PMU (3/3)



D

C

B

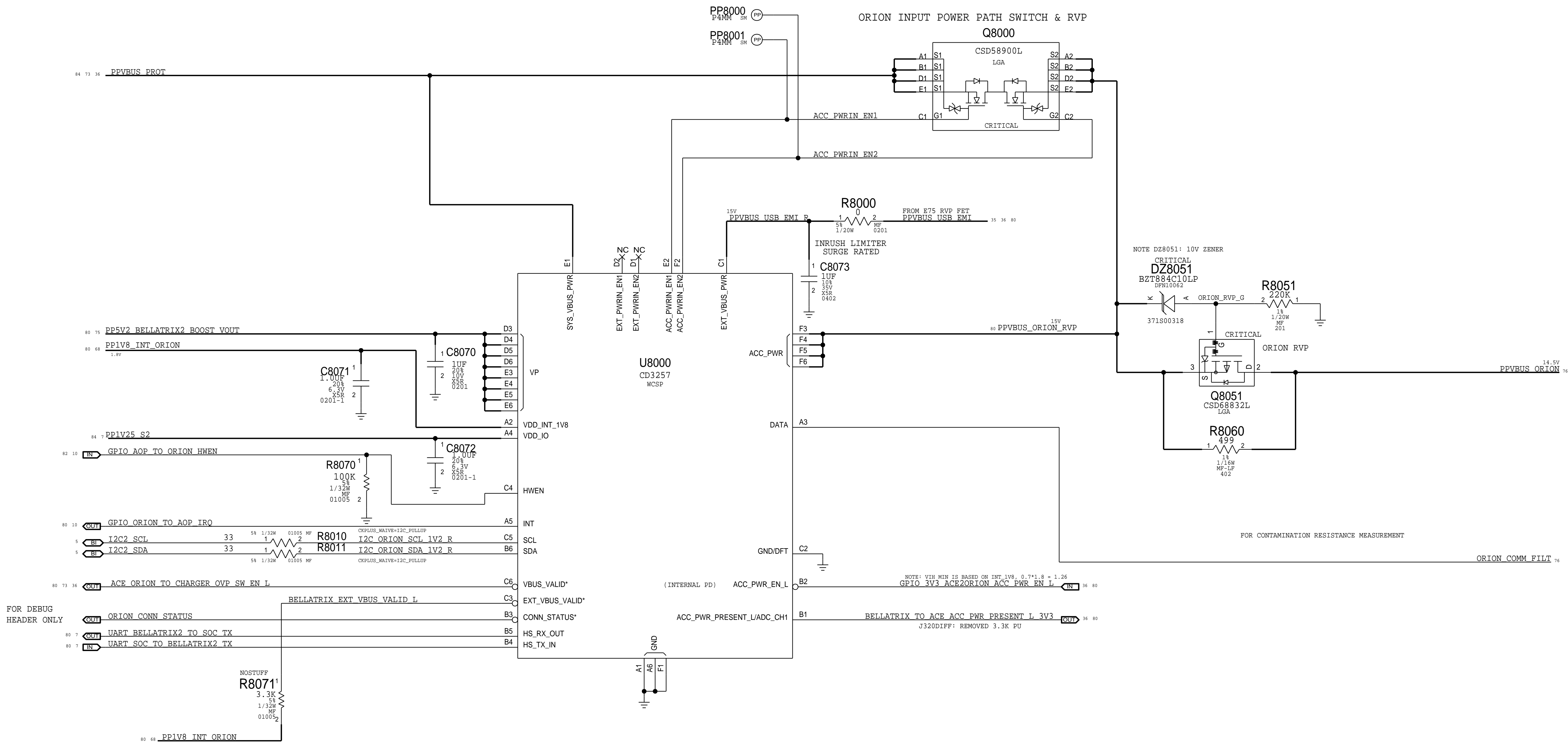
A

D

C

B

A



ORION CONNECTOR & POWER PATH

SERA BUCKS (1/4)

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S01317	152S01268		L8101 ETC.	ALTERNATE IND

D

C

B

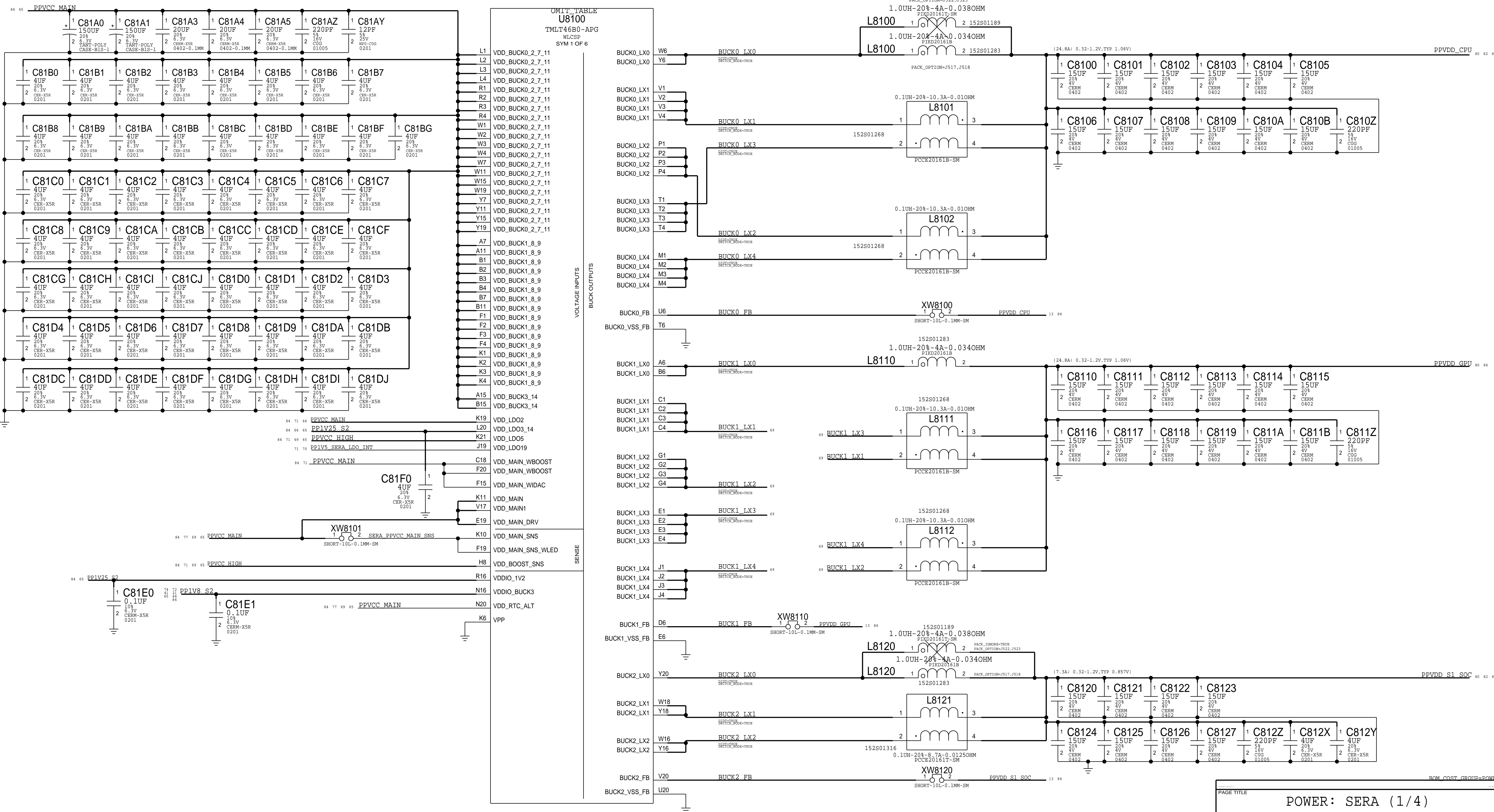
A

D

C

B

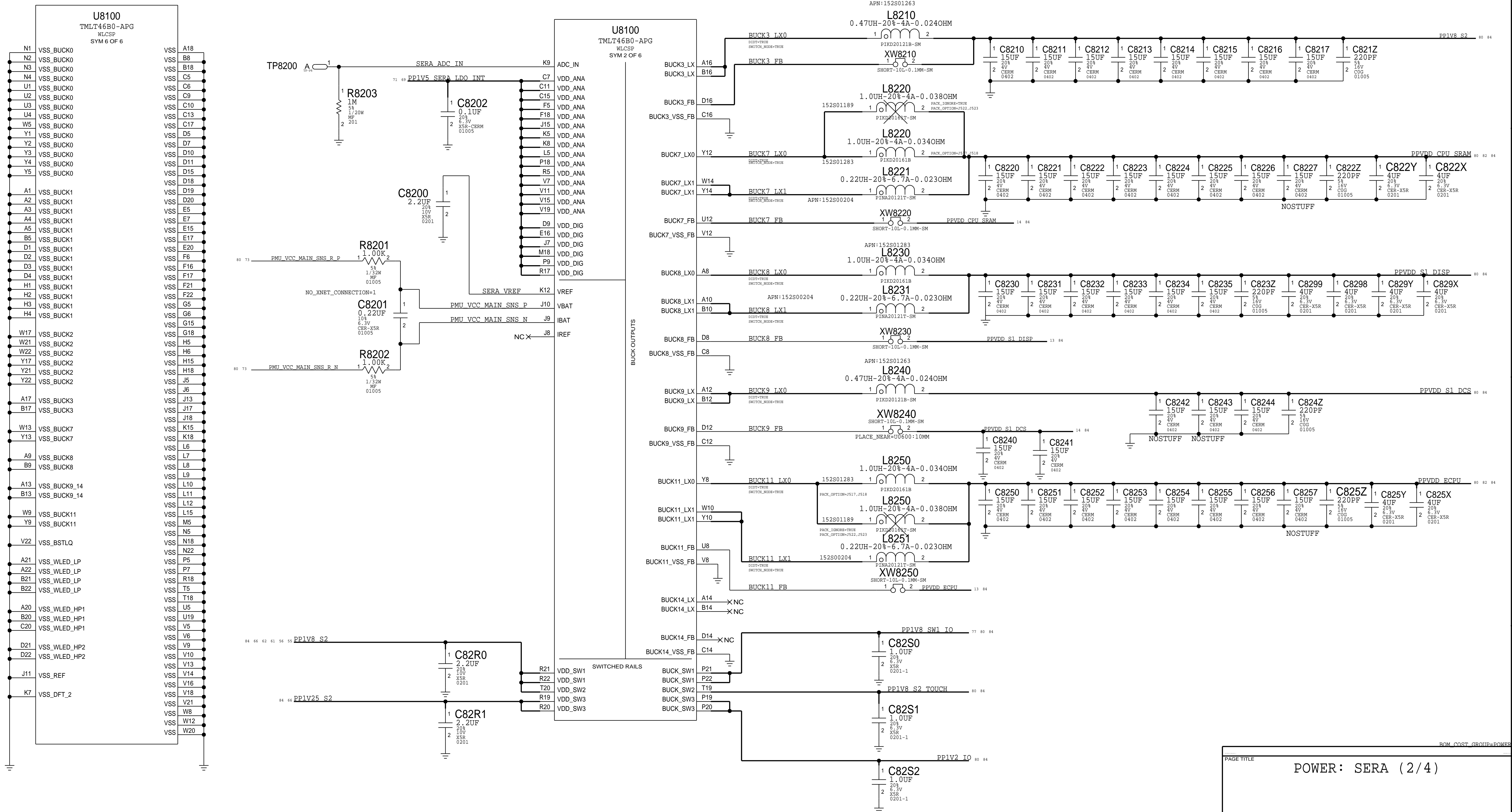
A



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S01305	152S01316		L8121	ALTERNATE IND

PAGE TITLE
POWER: SERA (1/4)

SERA BUCKS (2 / 4)

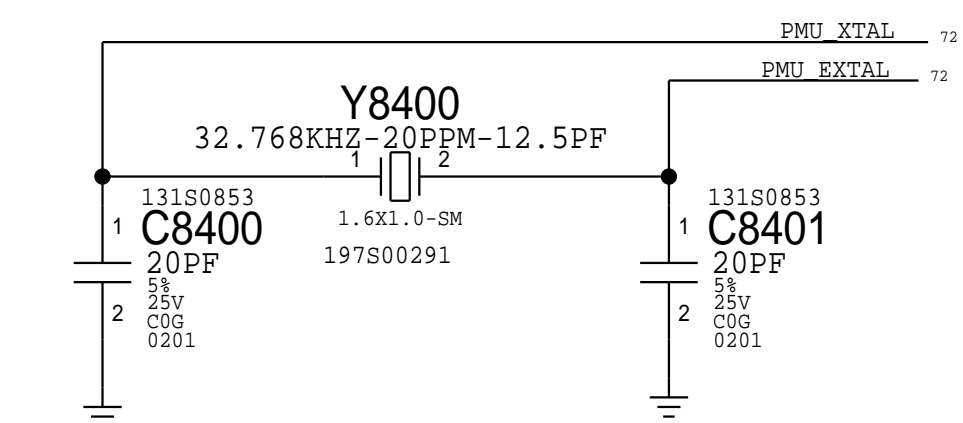
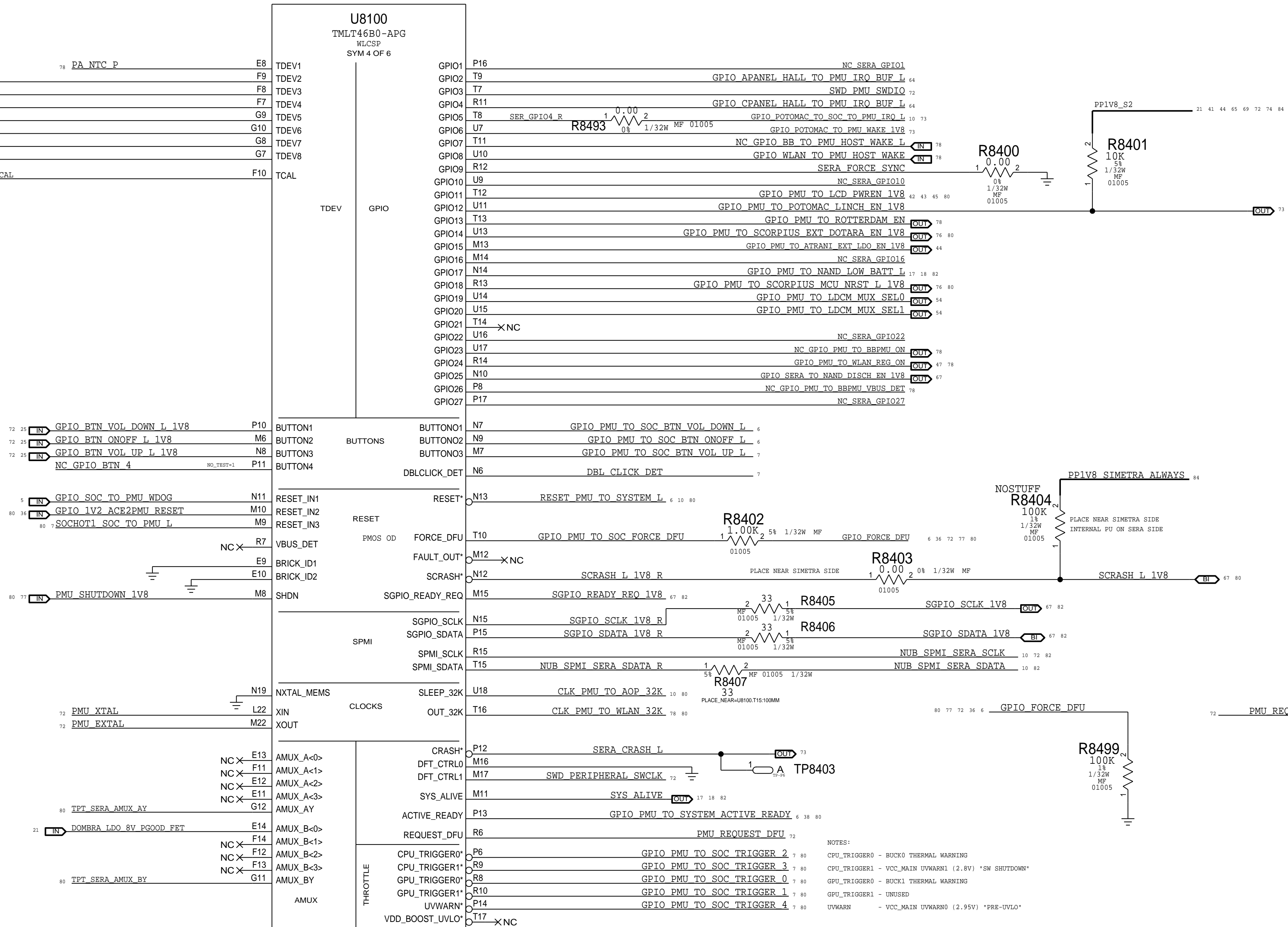
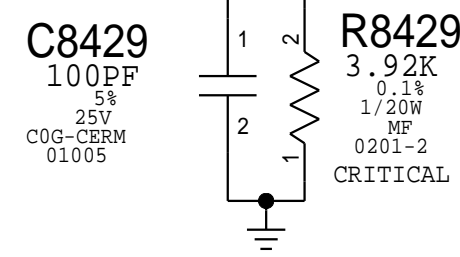
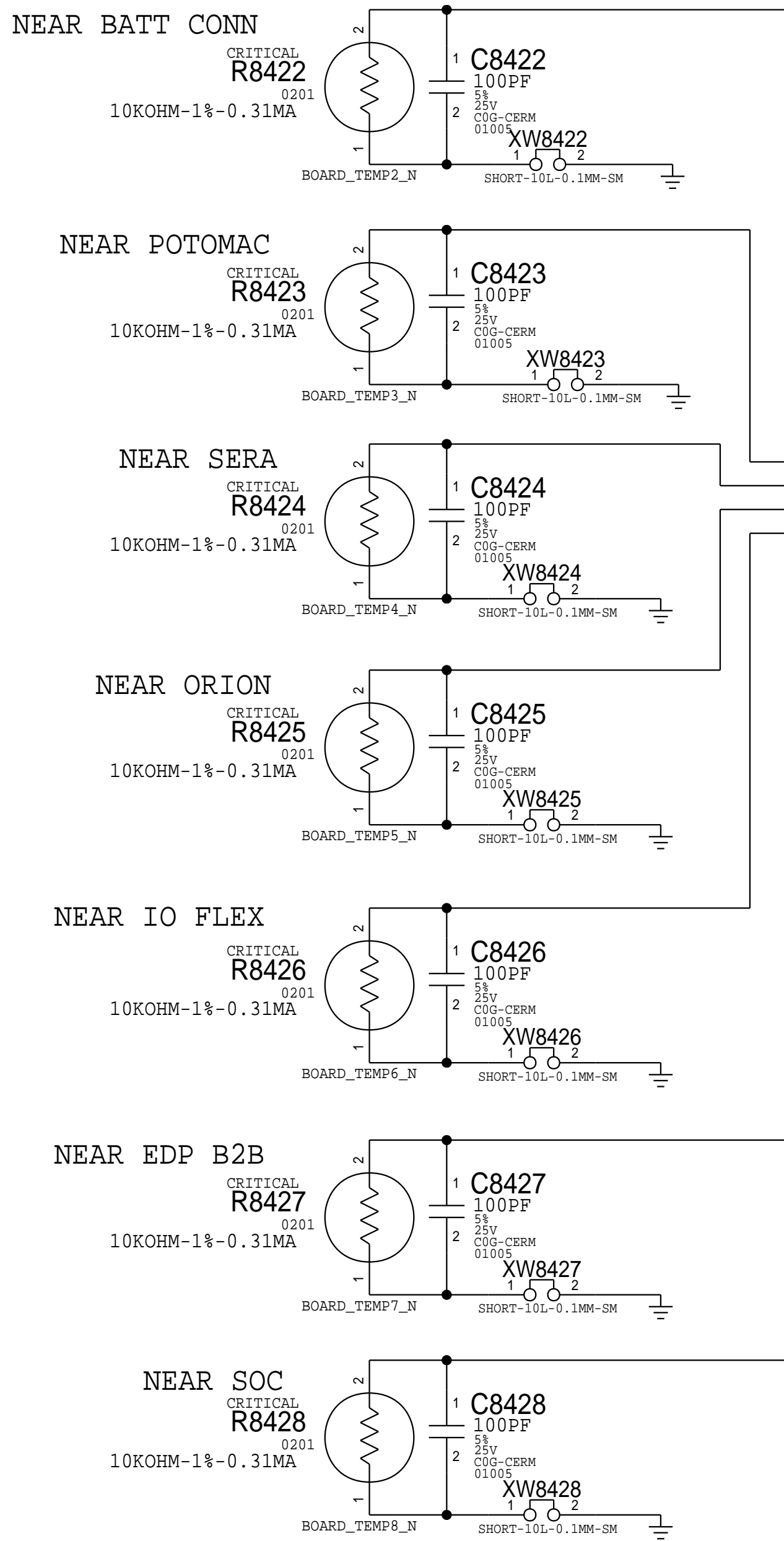


D

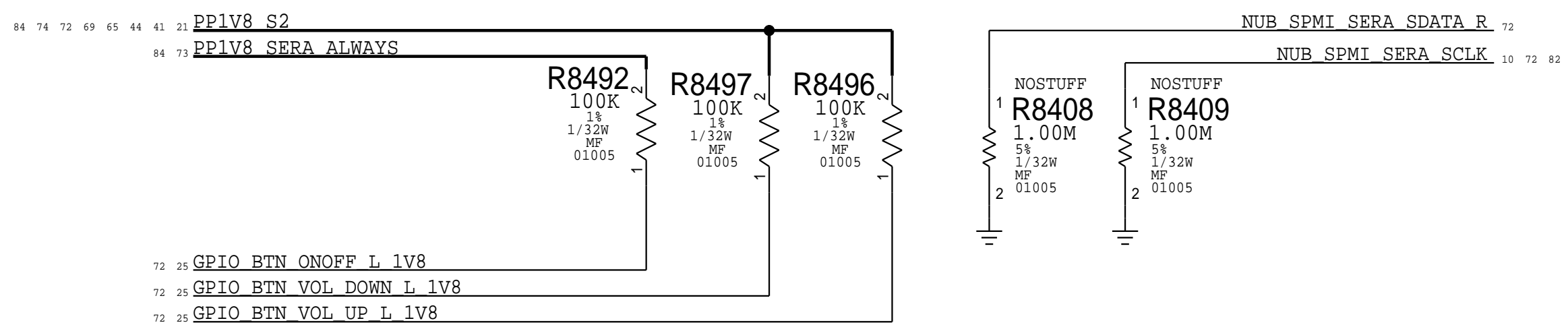


A

SERA GPIOs (4/4)



CAPS INCREASED FROM 18PF TO 22PF TO BETTER TARGET 32768HZ
NEW XTAL...NEED TO VALIDATE FREQUENCY



```

NOTES:
CPU_TRIGGER0 - BUCK0 THERMAL WARNING
CPU_TRIGGER1 - VCC_MAIN UVWARN1 (2.8V) "SW SHUTDOWN"
GPU_TRIGGER0 - BUCK1 THERMAL WARNING
GPU_TRIGGER1 - UNUSED
UVWARN      - VCC_MAIN UVWARN0 (2.95V) "PRE-UVLO"

```

POWER: SERA (4 / 4)

D



C

C

B

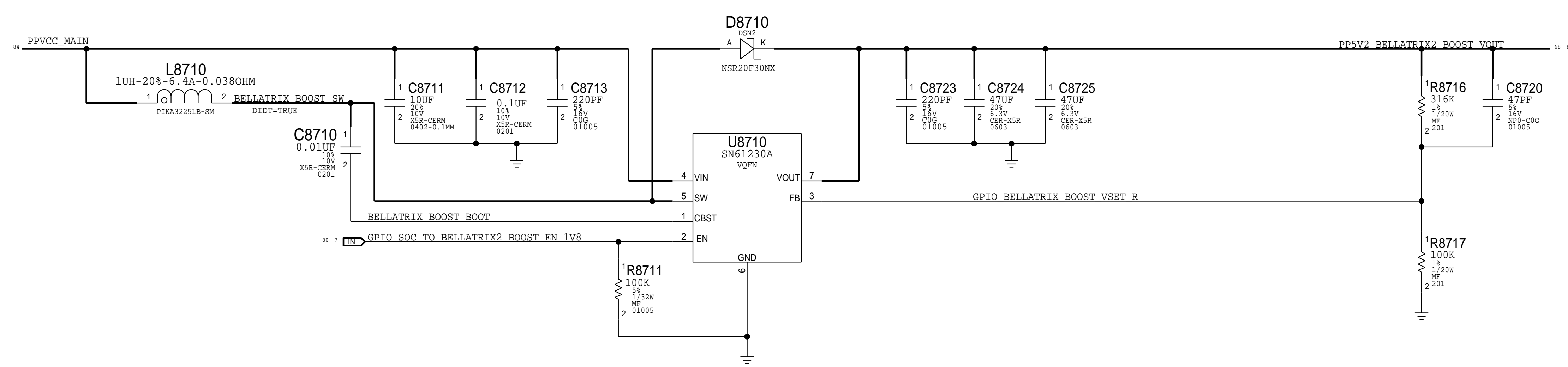
A

A

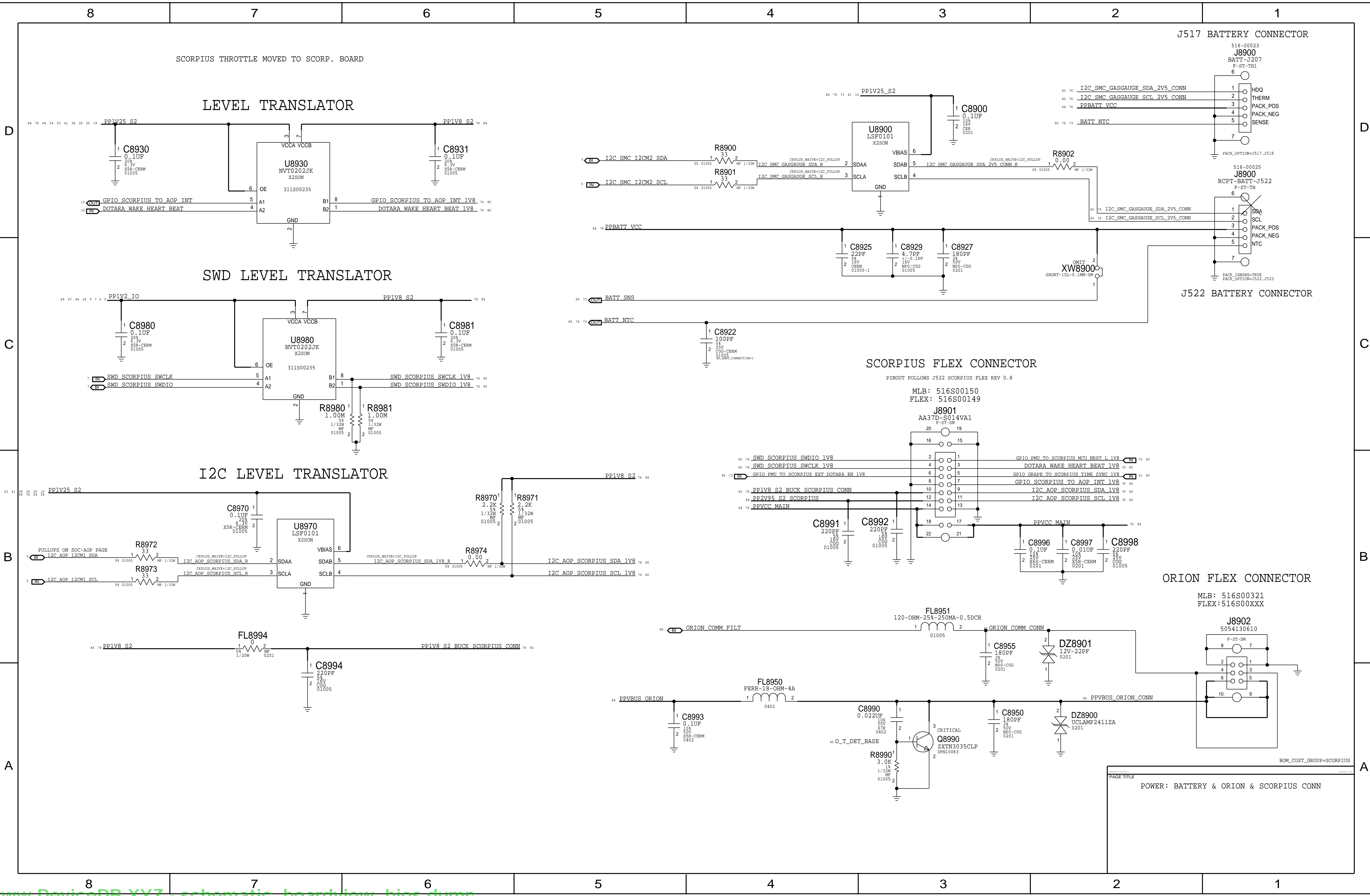
POWER: VT LDO

www.DeviceDB.XYZ - schematic, boardview, bios dump

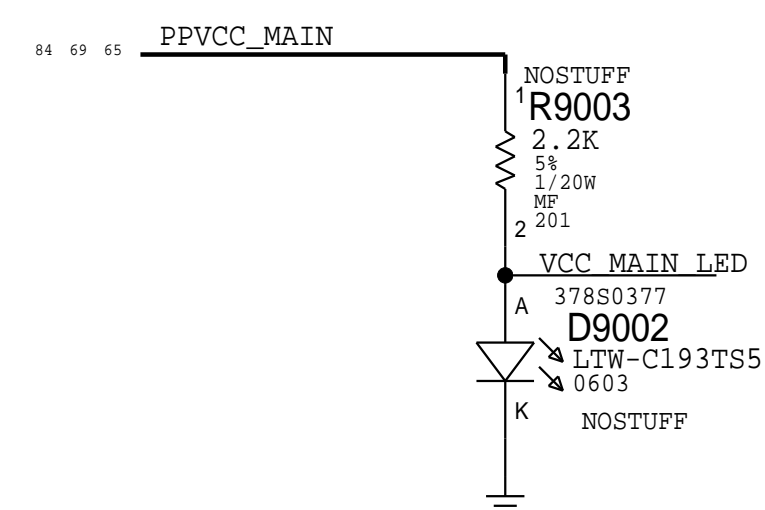
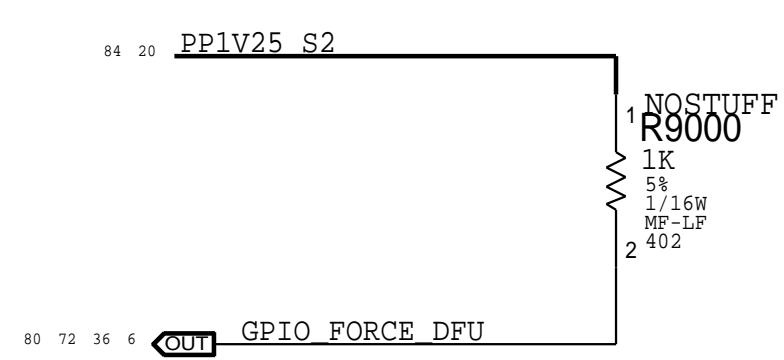
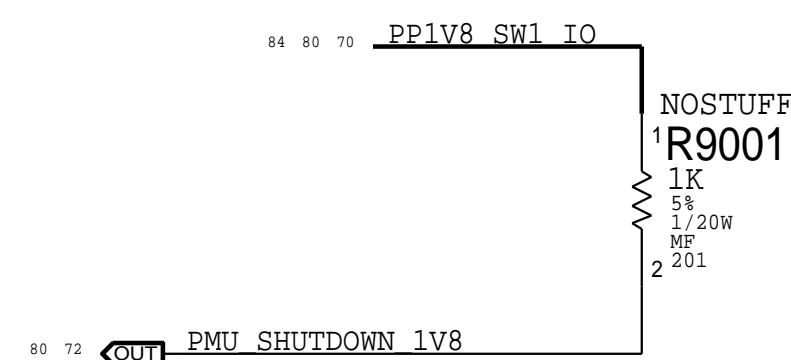
BELLATRIX BOOST



SCORPIUS BOOST MOVED TO SCORPIUS BOARD

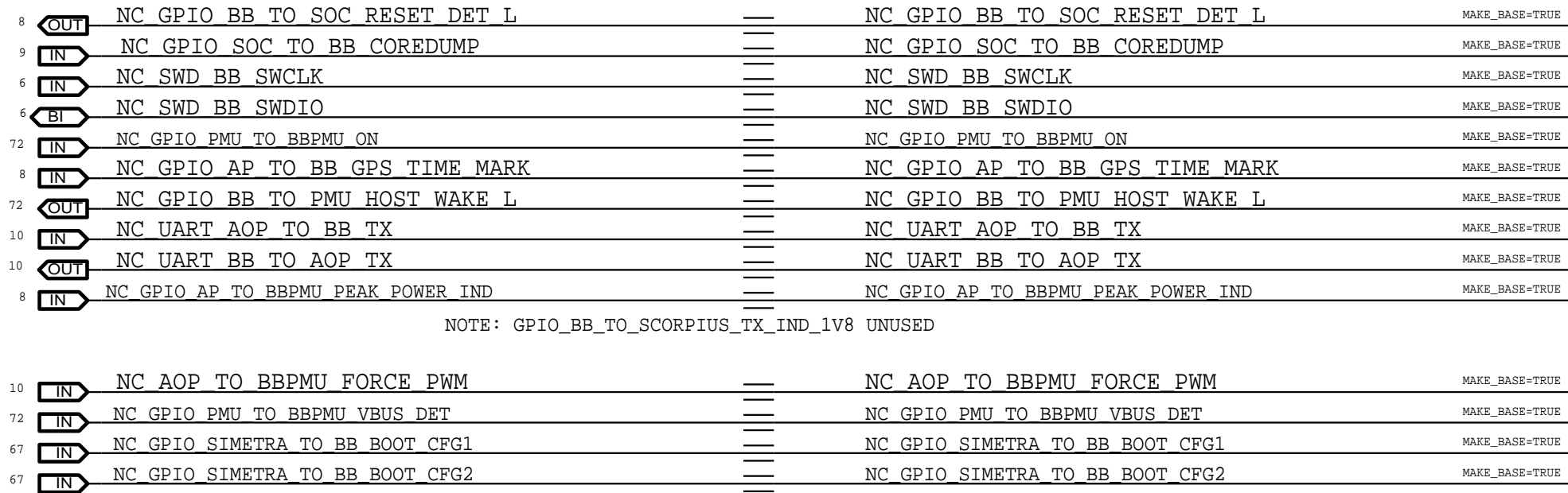


DEBUG RESET ACCESS

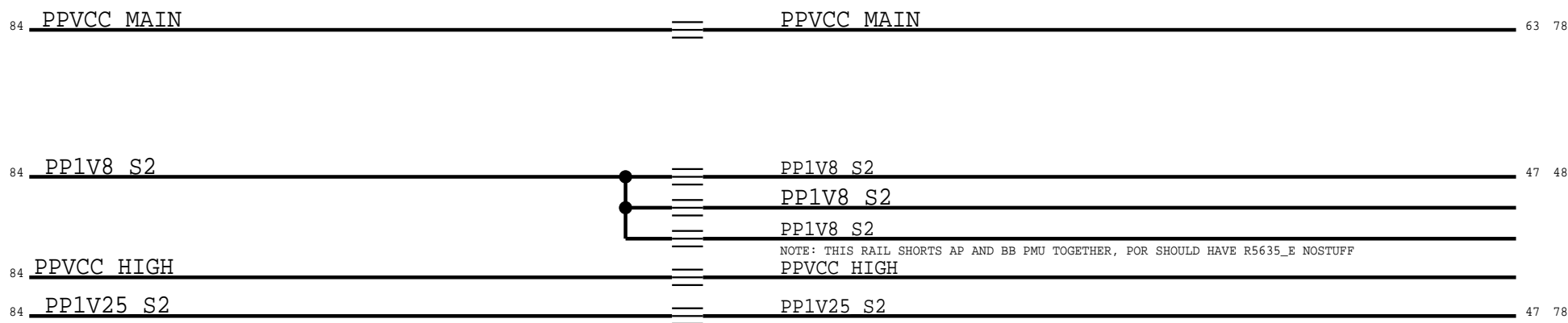


CELLULAR AND WLAN/BT ALIASES

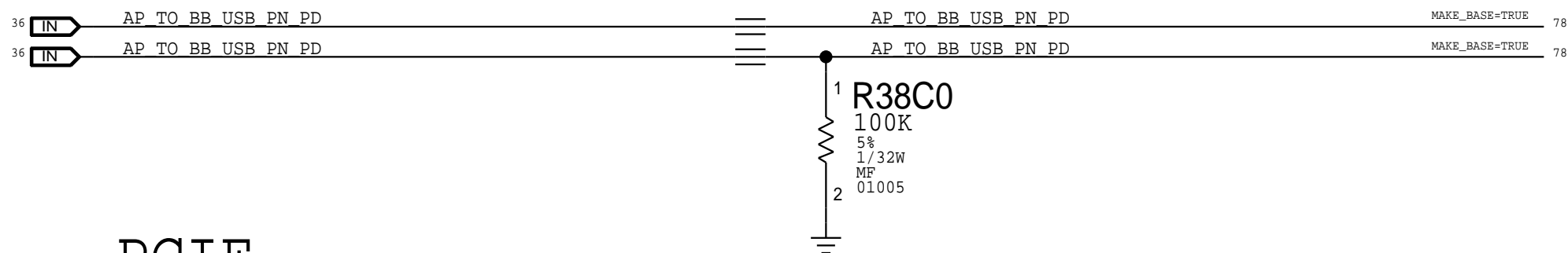
BASEBAND SOC/AOP/PMU GPIOs



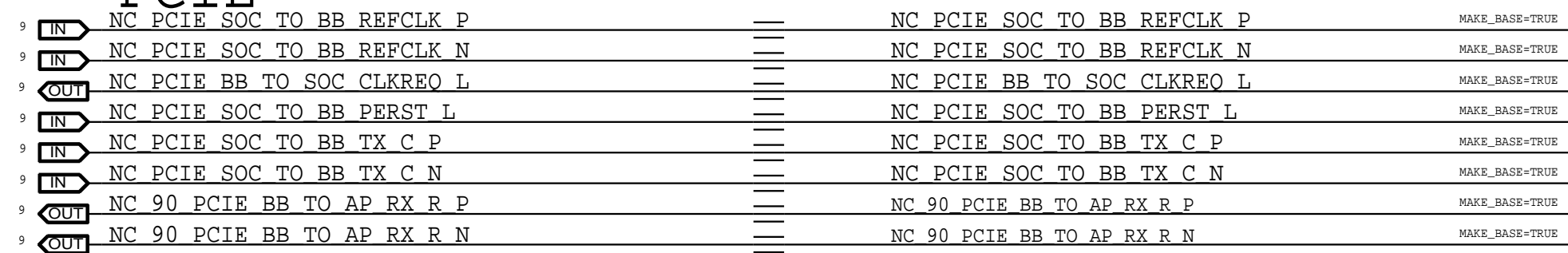
POWER



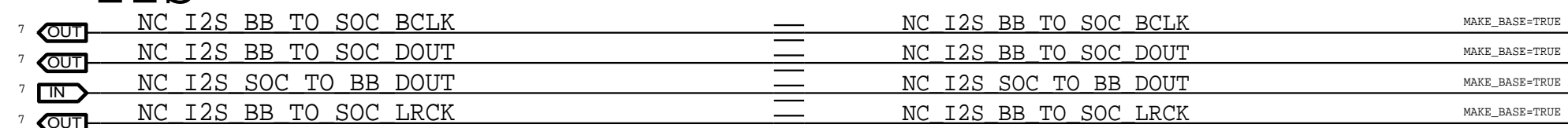
USB BB



PCIE



I2S



PHYSICAL SIM REMOVED

BASEBAND SWD

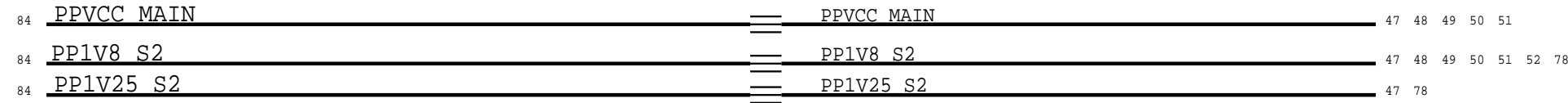
BASEBAND SPMI

NOTE: SPMI TO BASEBAND IS NOT USED

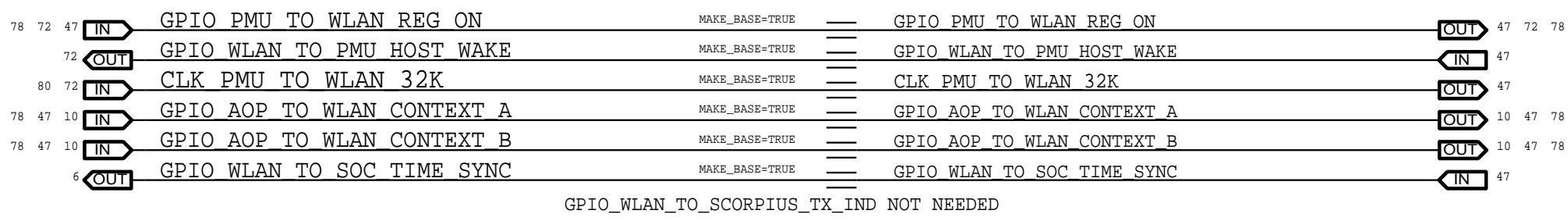
RFFE

WLAN

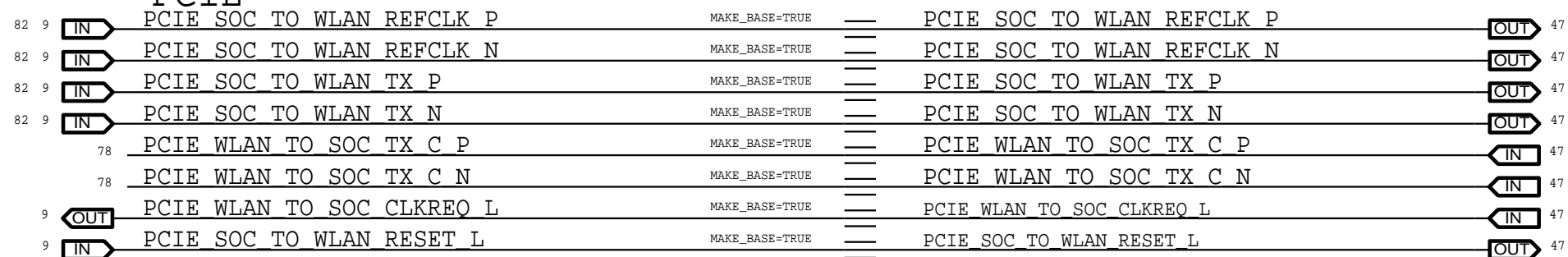
POWER



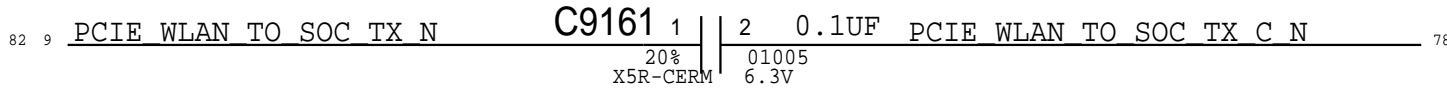
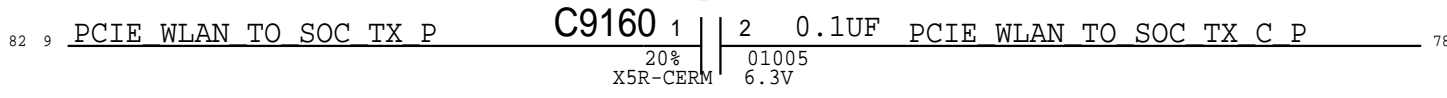
GPIOs



PCIE

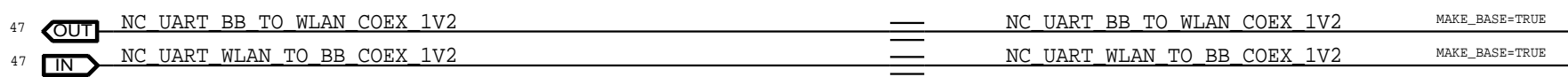


PLACE_NEAR=U_WLAN_W28:3MM

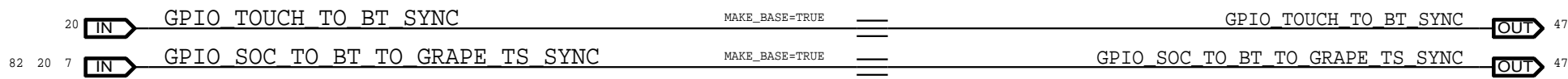


PLACE_NEAR=U_WLAN_W97:3MM

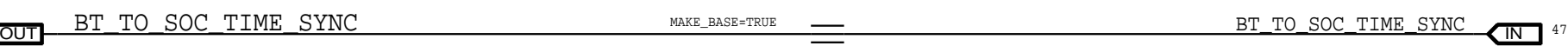
UART



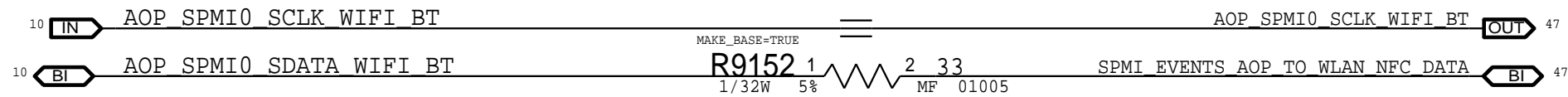
BLUETOOTH SOC GPIOs



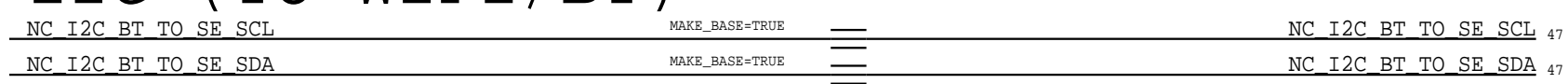
GPIO_BT_TO_SCORPIUS_TX_IND NOT NEEDED



WLAN/BT SPMI

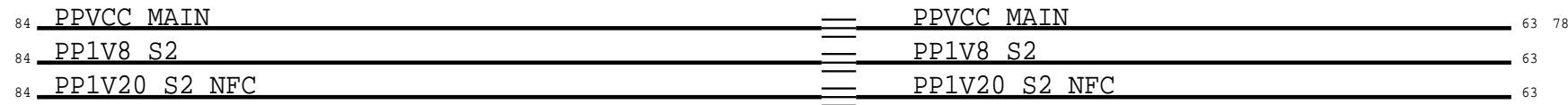


I2C (TO WIFI/BT)

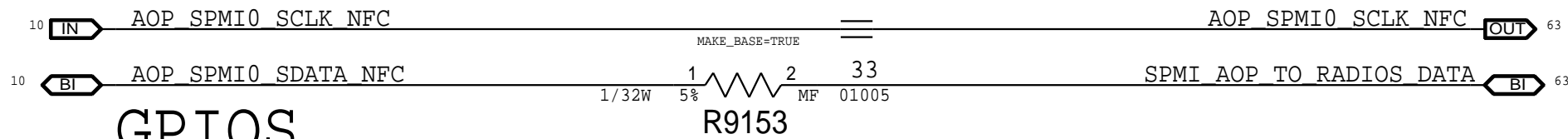


ROTTERDAM (CERES)

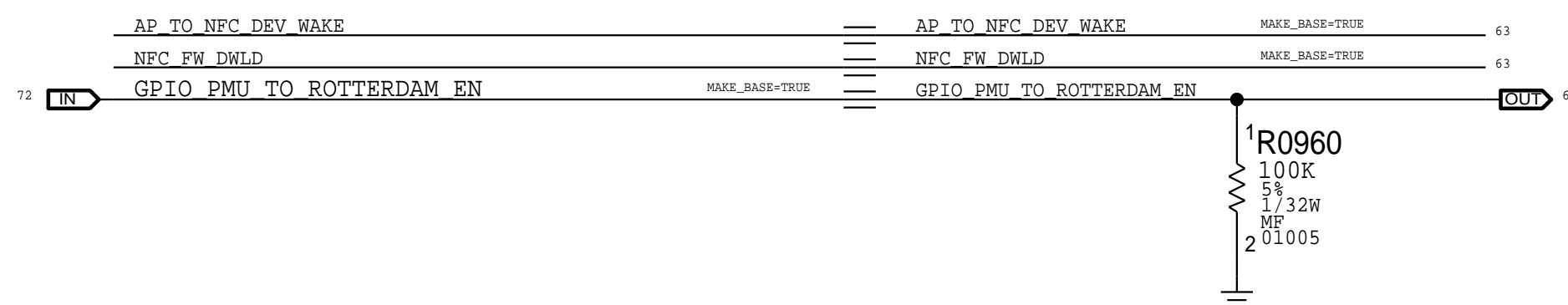
POWER



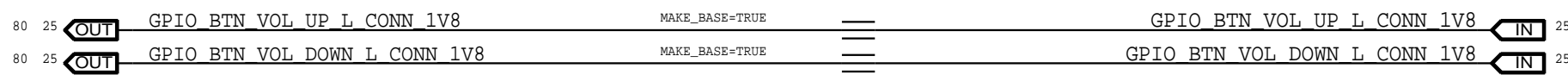
SPMI



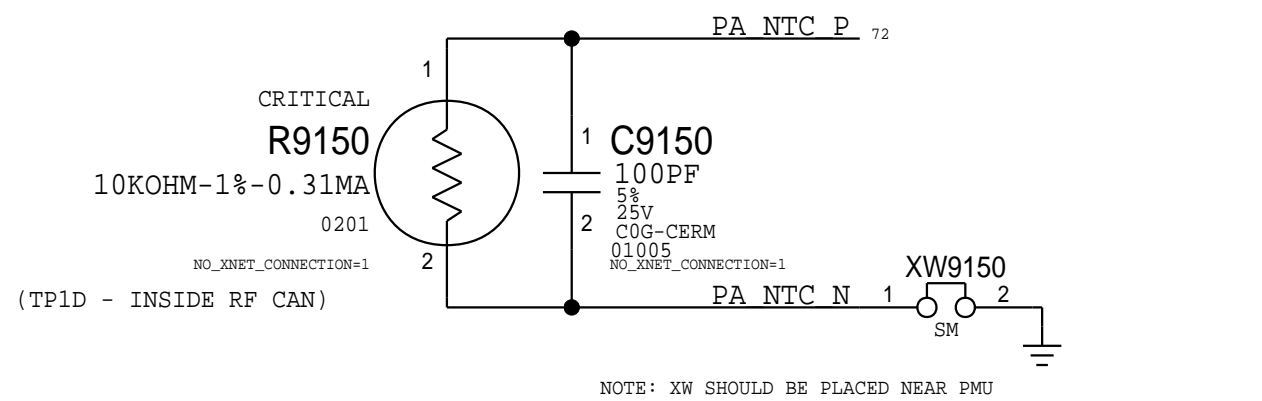
GPIOs



MMW/VOL BUTTON



RF NTC



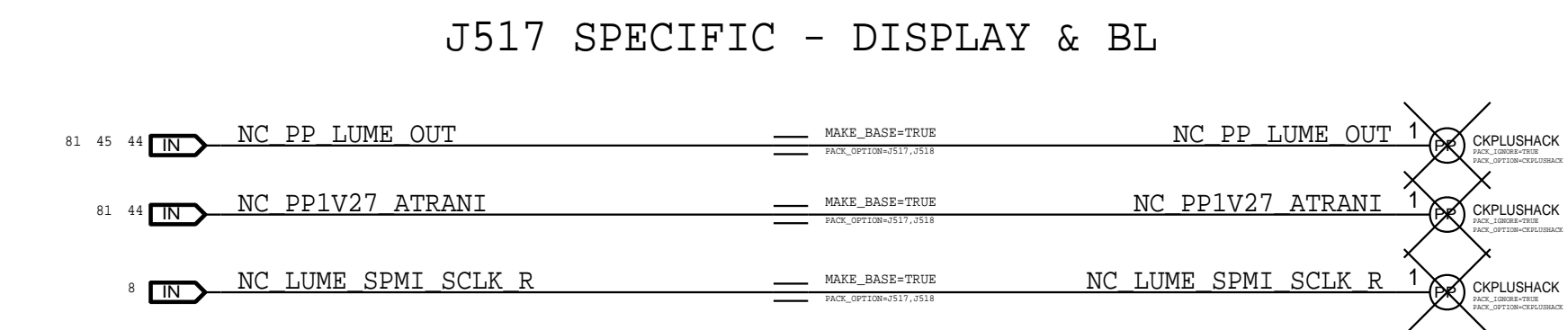
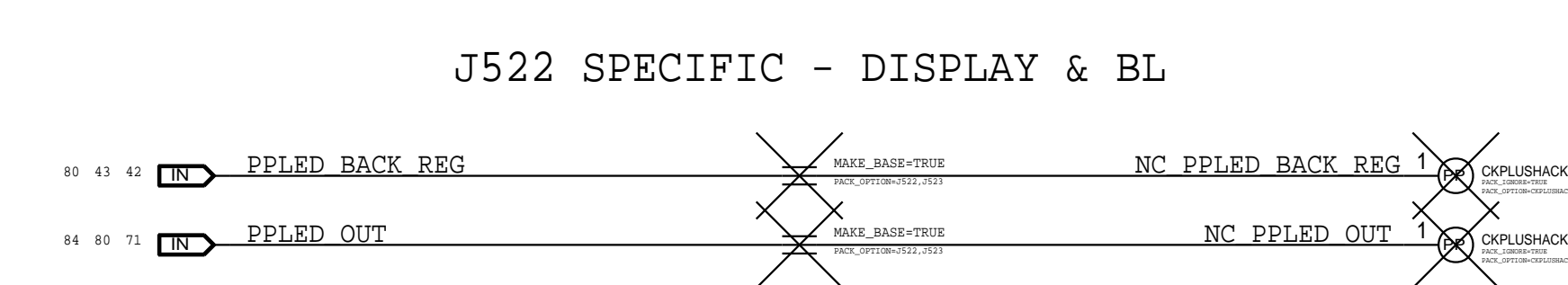
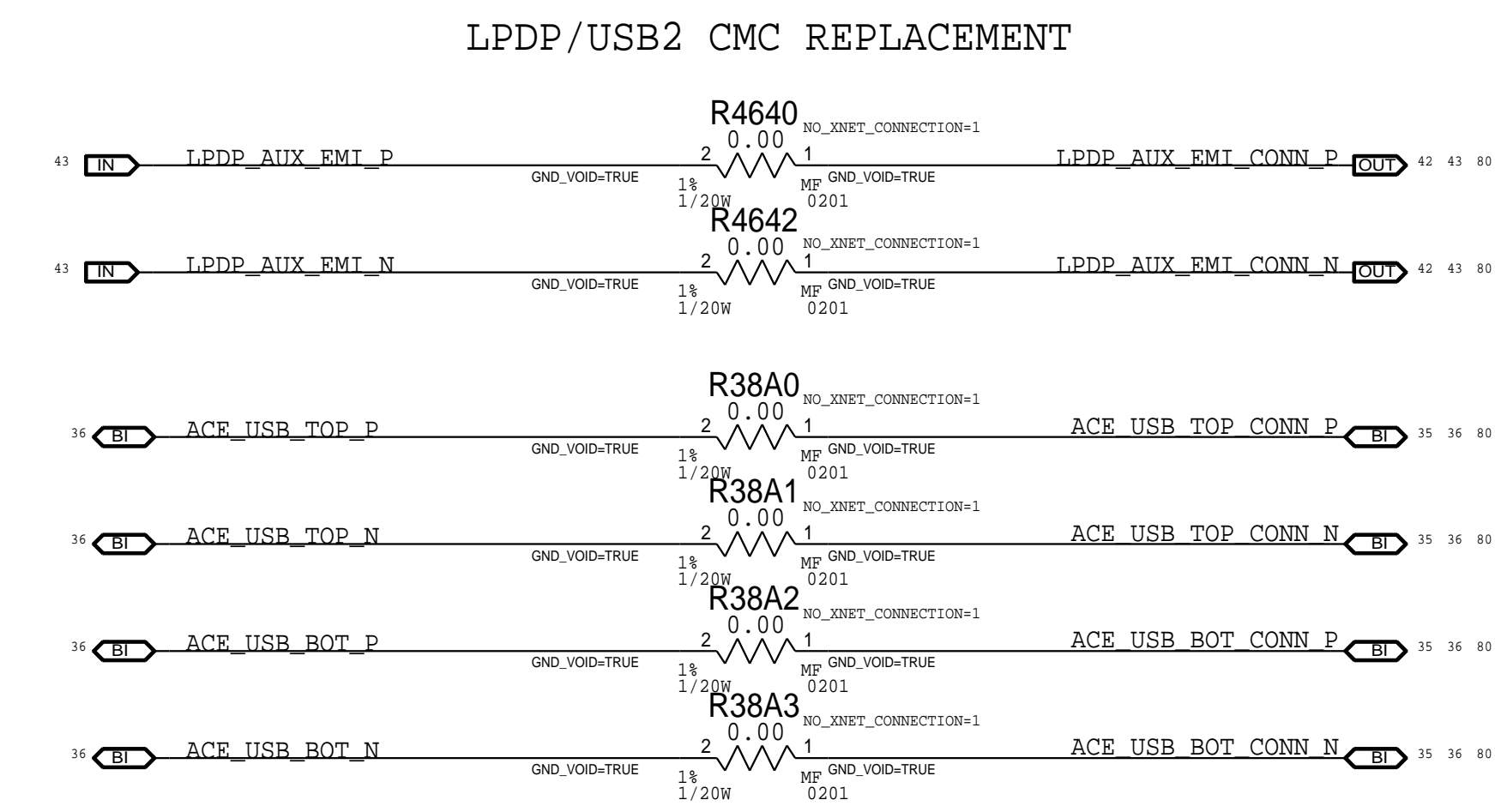
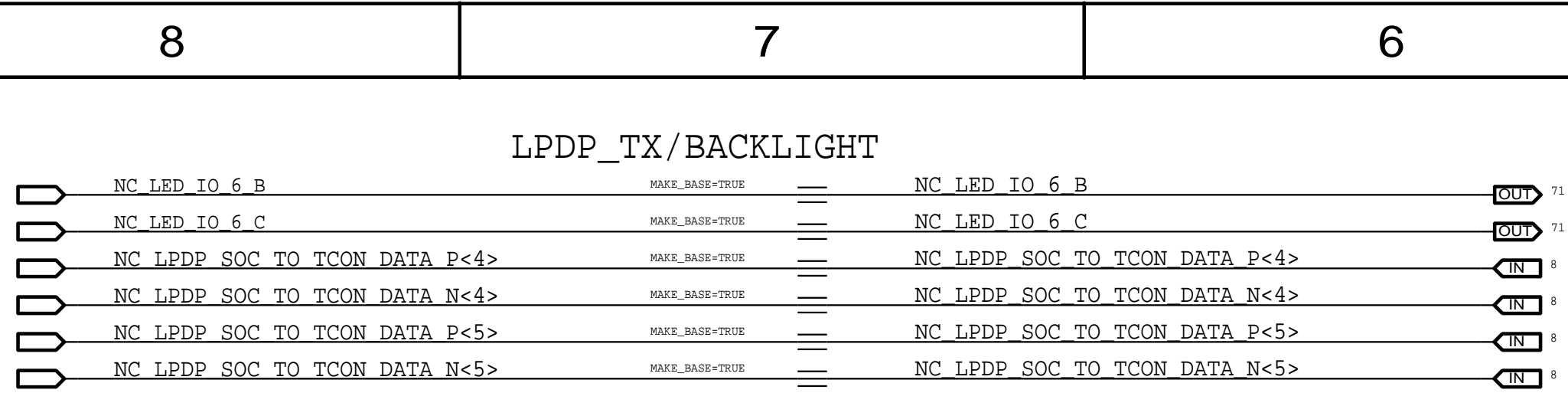
SYNCH: ROTTERDAM-T111_MCAL_A_REV. 1.0

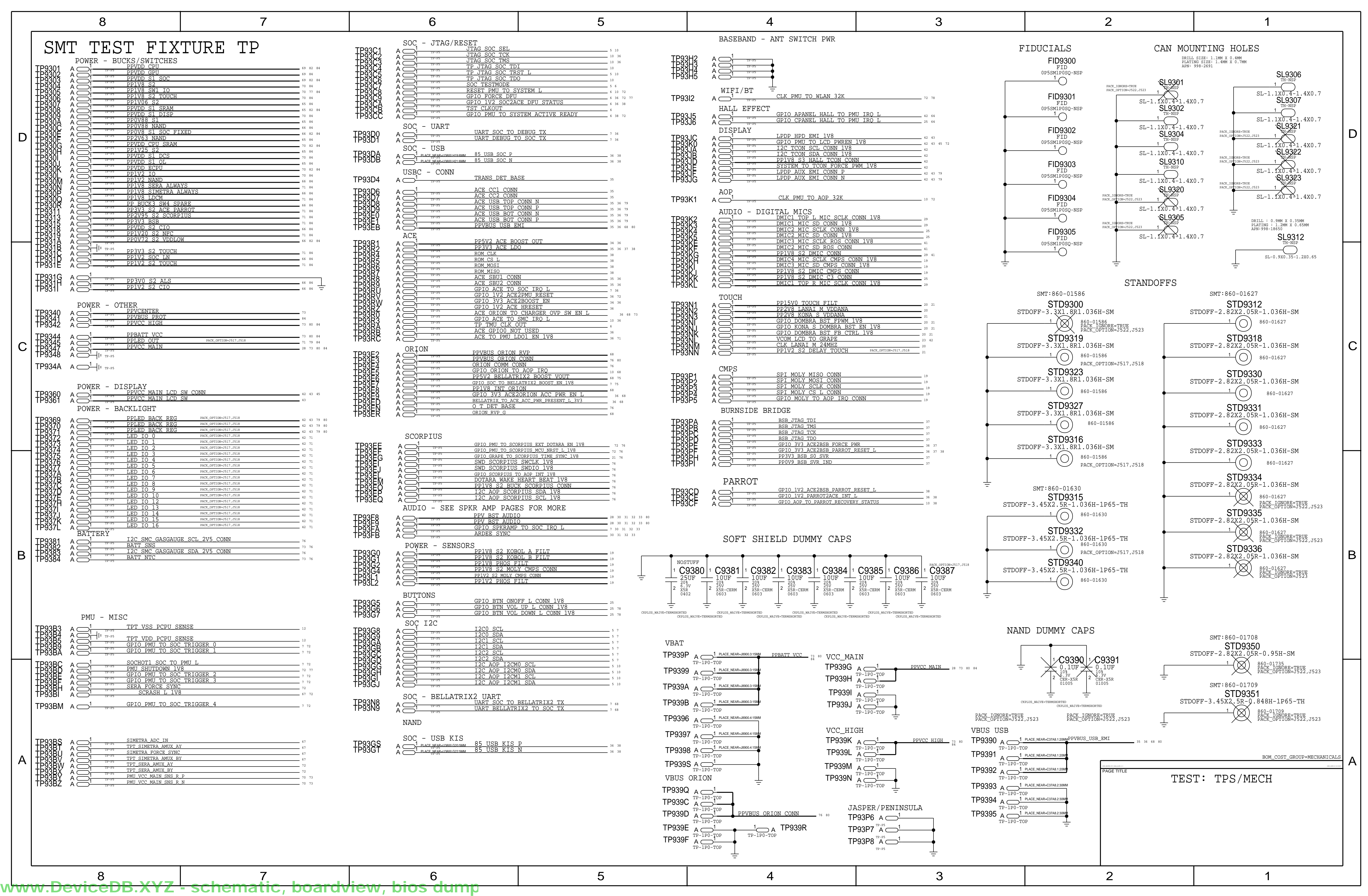
PAGE TITLE

ALIASES: BB/WLAN/BT

BOM_COST_GROUP=WIFI-BT

0VNC_DATE=10/14/2024





	8	7	6	5	4	3	2	1	
	SMT TEST FIXTURE TP								
D	POWER - ADAMS REAR		TITUS/ROSALINE/JULIET		POWER - ADAMS FRONT				
	TP9401	A	TP9431	A	TP9471	A			
	TP9402	A	TP9432	A	TP9472	A			
	TP9403	A	TP9433	A	TP9473	A			
	TP9405	A	TP9434	A	TP9474	A			
	TP9406	A	TP9435	A	TP9475	A			
	TP9408	A	TP9436	A	TP9476	A			
	TP9409	A	TP9437	A	TP9477	A			
	TP940A	A	TP9438	A	TP9478	A			
	TP940B	A	TP9439	A	TP9479	A			
C	POWER - FRONT WIDE CAMERA								
	TP9441	A							
	TP9442	A							
	TP9443	A							
	POWER - JULIET		DMIC GATING						
	TP9414	A	TP9461	A					
	TP9415	A	TP9463	A					
	TP9416	A							
	POWER - CAMERA (IN)		WILL I2C						
	TP9417	A	TP9464	A					
B	POWER - CAMERA (OH)		PENROSE ADC I2C						
	TP941A	A	TP9466	A					
	TP941B	A	TP9467	A					
	TP941C	A	TP9468	A					
	POWER - JASPER		CAM SYNC						
	TP941D	A	TP9452	A					
	TP941E	A	TP9453	A					
	TP941F	A							
	CAMERA-STROBE/PENROSE		2DBL						
	TP9421	A	TP94A0	A					
A	CAMERA FRONT SWIDE		LDCM						
	TP9444	A	TP94B0	A					
	TP9445	A	TP94B1	A					
	TP9446	A	TP94B2	A					
	TP9447	A	TP94B3	A					
	CAMERA - IN								
	TP942I	A							
	TP942J	A							
	TP942K	A							
	TP942L	A							
	CAMERA - OH								
	TP942R	A							
	TP942S	A							
	TP942T	A							
	TP942U	A							
	CAMERA - JASPER								
	TP942X	A							
	TP942Y	A							
	TP942Z	A							
	TP943Z	A							
	CAMERA - AUX								
	TP94C0	A							
	TP94C2	A							
	TP94C3	A							
	TP94C4	A							

EE CHARACTERIZATION PROBE POINT

SOC

PP9570	1	TPT VDD SOC S1 SENSE	12
PP9571	1	TPT VSS SENSE1	12
PP9572	1	TPT VSS SENSE2	12
PP9573	1	TPT VDD2 S2 SENSE2	12
PP9574	1	TPT VDD S2 SENSE1	12
PP9575	1	TPT VDD EGPU SENSE	12
PP9576	1	TPT VDD GPU SENSE	12
PP9577	1	TPT VDD DISP S1 SENSE	12
PP9578	1	TPT VDD DCS SENSE	12
PP9579	1	TPT VDDQL SENSE	12
PP957A	1	TPT VSS DDR SENSE	12

FOR SEG

PP9503	1	PEVDD S1 SOC	69 80 84
PP950E	1	PP0V8 S1 SOC FIXED	66 80 84
PP950K	1	PEVDD EGPU	70 80 84
PP9505	1	PEVDD CPU	69 80 84
PP9506	1	PEVDD S1 SRAM	65 80 84
PP9507	1	PEVDD CPU SRAM	70 80 84
PP9508	1	PP0V72 S2 VDDLOW	66 80 84

ACE/REDRIVER

PP9510	1	ACE UART RX	36
PP9511	1	ACE UART TX	36

FH SPEAKER I2S

PP9521	1	I2S SOC TO SPKRAMP FH BCLK	PLACE_NEAR=U3460.A4:50MM 7 32 33 82
PP9522	1	I2S SOC TO SPKRAMP FH LRCK	PLACE_NEAR=U3460.A3:50MM 7 32 33 82
PP9523	1	I2S SOC TO SPKRAMP FH DOUT	PLACE_NEAR=U3460.A1:50MM 7 32 33 82
PP9524	1	I2S SPKRAMP FH TO SOC DOUT	PLACE_NEAR=U0600.U3:50MM 7 32 33

FH SPEAKER I2S - EXTRAS FOR U3400

PP952A	1	I2S SOC TO SPKRAMP FH BCLK	7 32 33 82
PP952B	1	I2S SOC TO SPKRAMP FH LRCK	7 32 33 82
PP952C	1	I2S SOC TO SPKRAMP FH DOUT	7 32 33 82

CN SPEAKER I2S

PP9525	1	I2S3 SOC TO BSTMSTR CN MCLK	PLACE_NEAR=U3000.C5:50MM 7 28
PP9526	1	I2S SOC TO SPKRAMP CN BCLK	PLACE_NEAR=U3250.A4:50MM 7 30 31
PP9527	1	I2S SOC TO SPKRAMP CN LRCK	PLACE_NEAR=U3250.A3:50MM 7 30 31
PP9528	1	I2S SOC TO SPKRAMP CN DOUT	PLACE_NEAR=U3250.A1:50MM 7 30 31
PP9529	1	I2S SPKRAMP CN TO SOC DOUT	PLACE_NEAR=U0600.BC32:50MM
PP952D	1	GPIO BST MASTER TO SOC IRQ L	7 28
PP952E	1	GPIO BST SLAVE TO SOC IRQ L	7 28
PP952F	1	BST CLK SYNC 1V8	28
PP952G	1	BST SYNC R 1V8	28

PENROSE

PP952J	1	PDM PENROSE SCLK	10 24
PP952K	1	PDM PENROSE SD	10 24

GRAPE

PP9580	1	SPI SOC TO GRAPE SCLK	7 20
PP9582	1	SPI SOC TO GRAPE MOSI	7 20
PP9583	1	SPI SOC TO GRAPE CS L	7 20
PP9584	1	GPIO SOC TO GRAPE RESET L	7 20 21
PP9585	1	GPIO GRAPE TO AOP IRQ L	10 20
PP9586	1	KONA S TO LANAI M RESET DET 1V8 L	20 21
PP9587	1	PSE SYNC 1V8	20 21
PP9588	1	KMSI MISO 1V8	20 21
PP9589	1	KMSI MOSI 1V8	20 21
PP958A	1	KMSI STRB IN 1V8	20 21
PP958B	1	KMSI STRB OUT 1V8	20 21
PP958C	1	LANAI BOOST ATEST	20
PP958D	1	TESTPOINT KONA S UART TX 1V8	21
PP958E	1	TESTPOINT KONA S UART RX 1V8	21

PP958H	1	TPT SWD KONA SWDIO 1V8	21
PP958I	1	TPT SWD KONA SWCLK 1V8	21
PP958J	1	GPIO12 KONA LDO ADJ 1V8	20 21
PP958K	1	GPIO13 KONA LDO EN 1V8	20 21
PP958L	1	GPIO SOC TO DISPLAY TOUCH EB	8 20

PP958N	1	GPIO SOC TO LANAI DISPLAY BSYNC0	8 20
PP958P	1	GPIO SOC TO GRAPE BSYNC1	20 42
PP958X	1	UART AOP TO GRAPE TX	10 20
PP958Y	1	UART GRAPE TO AOP TX	10 20
PP958Z	1	UART DEBUG TO GRAPE TX	20 36
PP958Q	1	SPI LANAI M TO KONA S MISO 1V8	20 21
PP958T	1	SPI LANAI M TO KONA S SCLK 1V8	20 21
PP958U	1	SPI LANAI M TO KONA S CS 1V8 L	20 21
PP958W	1	SPI LANAI M TO KONA S MOSI 1V8	20 21

PP95K0	1	SPI SOC TO KONA S SCLK 1V8	7 21
PP95K1	1	SPI SOC TO KONA S MOSI 1V8	7 21
PP95K2	1	SPI SOC TO KONA S CS 1V8 L	7 21
PP95K3	1	GPIO KONA S TO SOC IRQ 1V8 L	7 21

GRAPE POWER

PP958R	1	PE3V3 GRAPE FILT	20 21
PP958S	1	PE1V8 GRAPE XTAL FILT	20 21
PP958V	1	PE1V8 GRAPE AON RC	20 21

DMIC SECURED

PP9590	1	PDM DMIC TOP L R SD	10 64
PP9591	1	PDM DMIC FRONT BACK SD	10 64
PP9592	1	PDM DMIC SIDE SD	10 64

PMU

PP95A0	1	SGPIO READY REQ 1V8	67 72
PP95A1	1	SGPIO SCLK 1V8	67 72
PP95A2	1	SGPIO SDATA 1V8	67 72
PP95A3	1	GPIO SIMETRA IRQ L	67

WIFI(SEE MORE ON PAGE 49)

PP95BL	1	GPIO SOC TO BT TO GRAPE TS SYNC	7 20 78
--------	---	---------------------------------	---------

WLAN PCIE TPS

PP95E0	1	PLACE_NEAR=U0600.BF11:100MM	PCIE WLAN TO SOC TX P 9 78
PP95E1	1	PLACE_NEAR=U0600.BE11:100MM	PCIE WLAN TO SOC TX N 9 78
PP95E2	1	PLACE_NEAR=U1 WLAN.W:89:20MM	PCIE SOC TO WLAN TX P 9 78
PP95E3	1	PLACE_NEAR=U1 WLAN.W:30:20MM	PCIE SOC TO WLAN TX N 9 78
PP95E4	1	PLACE_NEAR=U1 WLAN.W:85:20MM	PCIE SOC TO WLAN REFCLK P 9 78
PP95E5	1	PLACE_NEAR=U1 WLAN.W:26:20MM	PCIE SOC TO WLAN REFCLK N 9 78

BB PCIE TPS

ORION

PP953B	1	GPIO AOP TO ORION HWEN	10 68
PP953C	1	ORION CONN STATUS	68

SENSOR SPI LINES

PP9544	1	SPI SENSORS SCLK	PLACE_NEAR=U2120.4:10MM 10 19 53
PP9545	1	SPI SENSORS MISO	PLACE_NEAR=U0600.AC3:10MM 10 19 53
PP9546	1	SPI SENSORS MOSI	PLACE_NEAR=U2120.3:10MM 10 19 53
PP9547	1	SPI MOLY SCLK	PLACE_NEAR=R2102.1:10MM 19
PP9549	1	SPI MOLY MOSI	PLACE_NEAR=R2103.1:10MM 19

PMU/CHARGER

PP95G7	1	EUSB VBUS DETECT	6
PP95G4	1	NUB SPMI SERA SCLK	10 72
PP95G5	1	NUB SPMI SERA SDATA	10 72
PP9539	1	SYS ALIVE	17 18 72

PP95G0	1	PROX BI AP AOP INT L PWM LVT	10 41
--------	---	------------------------------	-------

PARROT

PP95H0	1	TPT GPIO0 PARROT	38
PP95H1	1	TPT GPIO1 PARROT	38

NAND

PP95D0	1	TPT NAND1 DROOP L	17
PP95D1	1	TPT NAND2 DROOP L	18
PP95D2	1	GPIO PMU TO NAND LOW BATT L	17 18 72
PP95D6	1	PCIE SOC TO NAND PERST L	9 17 18

PP95DE	1	PLACE_NEAR=U1800.A4:50MM	NAND1 ANI1 VREF 17
PP95DF	1	PLACE_NEAR=U1800.G12:50MM	NAND1 ANIO VREF 17
PP95DG	1	PLACE_NEAR=U1800.A4:50MM	NAND2 ANI1 VREF 18
PP95DH	1	PLACE_NEAR=U1800.G12:50MM	NAND2 ANIO VREF 18
PP95DI	1	PLACE_NEAR=U1800.C4:50MM	GPIO_SOC_TO_NAND_FW_STRAP 7 17 18
PP95DJ	1	PLACE_NEAR=U1800.L4:50MM	GPIO_SOC_TO_NAND_RESET_L 7 17 18

IR CAMERA - JULIET

PP9550	1	MIPI PEARL TO SOC CLK P	8 40
PP9551	1	MIPI PEARL TO SOC CLK N	8 40
PP9552	1	MIPI PEARL SOC DATA P<0>	8 40
PP9553	1	MIPI PEARL SOC DATA N<0>	8 40
PP9554	1	MIPI PEARL SOC DATA P<1>	8 40
PP9555	1	MIPI PEARL SOC DATA N<1>	8 40
PP9556	1	CLK FCAM PMU TO JULIET 12M 1V8	40 62

CAMERA - FRONT WIDE

CAMERA - FRONT SWIDE

PP9566	1	LPDP SOC TO FCAM2 SWIDE_AUX	8 26
PP9567	1	LPDP FCAM2 SWIDE TO SOC DATA P<0>	8 26
PP9568	1	LPDP FCAM2 SWIDE TO SOC DATA N<0>	8 26
PP9569	1	LPDP FCAM2 SWIDE TO SOC DATA P<1>	8 26
PP956A	1	LPDP FCAM2 SWIDE TO SOC DATA N<1>	8 26

LPDPRX TPS

PP95F0	1	LPDP RCAM1 WIDE TO SOC DATA P<0>	8 58
PP95F1	1	LPDP RCAM1 WIDE TO SOC DATA N<0>	8 58
PP95F2	1	LPDP RCAM1 WIDE TO SOC DATA P<1>	8 58
PP95F3	1	LPDP RCAM1 WIDE TO SOC DATA N<1>	8 58
PP95F4	1	LPDP SOC TO RCAM1 WIDE_AUX	8 58
PP95F5	1	LPDP RCAM2 SWIDE TO SOC DATA P<0>	8 59
PP95F6	1	LPDP RCAM2 SWIDE TO SOC DATA N<0>	8 59
PP95F7	1	LPDP RCAM2 SWIDE TO SOC DATA P<1>	8 59
PP95F8	1	LPDP RCAM2 SWIDE TO SOC DATA N<1>	8 59
PP95F9	1	LPDP SOC TO RCAM2 SWIDE_AUX	8 59
PP95FA	1	LPDP JASPER TO SOC DATA P	8 60
PP95FB	1	LPDP JASPER TO SOC DATA N	8 60
PP95FC	1	LPDP SOC TO JASPER_AUX	8 60

BOM_COST_GROUP=NO_COST_ITEMS

PAGE TITLE

TEST: EE TP/PP

