

Apple Confidential Updated: February 27, 2020



BOM TABLES: SOC, PMU, NAND

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-23740	1	SOC,TDA,B1+H0,1Y,8C,LP,DEV,AG,X,S,M0502	U0600	CRITICAL	NAND:ULTIMATE
998-23740	1	SOC,TDA,B1+H0,1Y,8C,LP,DEV,AG,X,S,M0502	U0600	CRITICAL	NAND:SUPREME_TB
998-23740	1	SOC,TDA,B1+H0,1Y,8C,LP,DEV,AG,X,S,M0502	U0600	CRITICAL	NAND:SUPREME_HY
998-23740	1	SOC,TDA,B1+H0,1Y,8C,LP,DEV,AG,X,S,M0502	U0600	CRITICAL	NAND:EXTREME_TB
998-23740	1	SOC,TDA,B1+H0,1Y,8C,LP,DEV,AG,X,S,M0502	U0600	CRITICAL	NAND:EXTREME_HY

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-23748	1	SOC,TDA,B1+H0,1Y,8C,LP,DEV,AG,X,S,M0502	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,PMU,SERA,A0,OTP-BPC,CSP440	U8100	CRITICAL	J517&J518
998-22363	1	IC,PMU,SERA,B0,OTP-APG,CSP440	U8100	CRITICAL	J522&J523

PMU-SIMETRA

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-22366	1	IC,PMU,SIMETRA,A0,OTP-BPC,CSP196	U7700	CRITICAL	J517&J518
998-22365	1	IC,PMU,SIMETRA,A1,OTP-APG,CSP196	U7700	CRITICAL	J522&J523

CHARGER-POTOMAC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343S00388	1	IC,CHGR,POTOMAC,D2559A0,OTP-8C,CSP182	U8500	CRITICAL	J517&J518
343S00389	1	IC,CHGR,POTOMAC,D2559A0,OTP-1C,CSP182	U8500	CRITICAL	J522&J523

ADAMS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S00589	1	IC,PMU,ADAMS REAR,D2657B0,OTP-G0	U6100	CRITICAL	J517&J518
338S00588	1	IC,PMU,ADAMS FRONT,D2657B0,OTP-GC	U6900	CRITICAL	J517&J518
338S00591	1	IC,PMU,ADAMS REAR,D2657B0,OTP-BD	U6100	CRITICAL	J522&J523
338S00590	1	IC,PMU,ADAMS FRONT,D2657B0,OTP-8C	U6900	CRITICAL	J522&J523

NAND

ULTIMATE NAND CONFIGURATIONS (U1900 NOSTUFF)					128GB
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00462	1	TOSHIBA,B1CS4P5,4DP	U1800	CRITICAL	NAND:ULTIMATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00437	335S00462	NAND:ULTIMATE	U1900	HYNIX,3DV5,2DP

SUPREME-TB NAND CONFIGURATIONS					256GB
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00480	1	TOSHIBA,B1CS4P5,5DP	U1800	CRITICAL	NAND:SUPREME_TB
335S00462	1	TOSHIBA,B1CS4P5,4DP	U1900	CRITICAL	NAND:SUPREME_TB

SUPREME-HY NAND CONFIGURATIONS					256GB
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00437	2	HYNIX,3DV5,2DP	U1800,U1900	CRITICAL	NAND:SUPREME_HY

EXTREME-TB NAND CONFIGURATIONS					512GB
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					512GB
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					1TB
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00466	2	TOSHIBA,B1CS4P5,16DP	U1800,U1900	CRITICAL	NAND:PRIME_TB

PRIME-HY NAND CONFIGURATIONS					1TB
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00483	1	HYNIX,3DV5,9DP	U1800	CRITICAL	NAND:PRIME_HY
335S00439	1	HYNIX,3DV5,8DP	U1900	CRITICAL	NAND:PRIME_HY

DOUBLE PRIME CONFIGURATIONS					2TB
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00468	2	TOSHIBA,B1CS4P5,16DP	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

BOM TABLES: MECHANICAL, BARCODES, DISCRETES, ETC.

CKPLUS WAIVE TABLE

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

MECHANICAL PARTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
806-26156	1	CAN_PENINSULA_LARG_MGR_BT_0522	PENINSULA_CAN	CRITICAL	
806-26538	1	SHIELD_RADIO_MGR_BT_0517	RF_CAN	CRITICAL	
604-31607	1	ASST_FENCE_AP_YMR_0522	AP_FENCE	CRITICAL	
806-26273	1	CAN_AP_3_PB_MGR_BT_0523	AP2_FENCE_FH	CRITICAL	
806-26274	1	CAN_AP_2_CHIN_MGR_BT_0523	AP2_FENCE_CHIN	CRITICAL	
806-27124	1	CAN_CHIN_1_MGR_BT_0523	CHIN_CAN_1	CRITICAL	
806-27123	1	CAN_CHIN_2_MGR_BT_0523	CHIN_CAN_2	CRITICAL	

BARCODE LABEL/EEEE CODES

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-7691	1	EEEE 639-12972 (ULTIMATE-TB,US_0522)	EEEE_Q8RR	CRITICAL	EEEE-0522_ULTIMATE
825-7691	1	EEEE 639-12973 (SUPPONE-TB,US_0522)	EEEE_Q8RT	CRITICAL	EEEE-0522_SUPPONE_TB
825-7691	1	EEEE 639-12974 (SUPPONE-HY,US_0522)	EEEE_Q8RV	CRITICAL	EEEE-0522_SUPPONE_HY
825-7691	1	EEEE 639-12975 (EXTREME-TB,US_0522)	EEEE_Q8RW	CRITICAL	EEEE-0522_EXTREME_TB
825-7691	1	EEEE 639-12976 (EXTREME-HY,US_0522)	EEEE_Q8RX	CRITICAL	EEEE-0522_EXTREME_HY
825-7691	1	EEEE 639-12977 (PRIME-TB,US_0522)	EEEE_Q8RY	CRITICAL	EEEE-0522_PRIME_TB
825-7691	1	EEEE 639-12978 (PRIME-HY,US_0522)	EEEE_Q8R0	CRITICAL	EEEE-0522_PRIME_HY
825-7691	1	EEEE 639-12979 (DOUBLE-PRIME-TB,US_0522)	EEEE_Q8R1	CRITICAL	EEEE-0522_DBL_PRIME

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	371S00176	DZ8051	NXP	
377S0155	377S0184	DZ4014,ETC	ONSEMI	
371S00190	371S00085	D3800	DIODES	

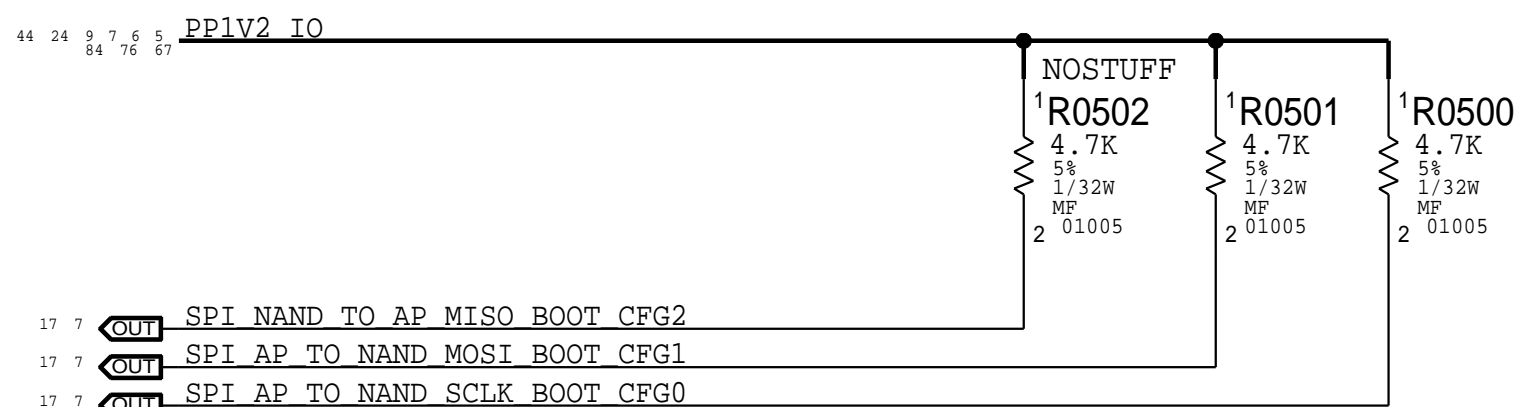
NTCS

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

LEVEL TRANSLATOR

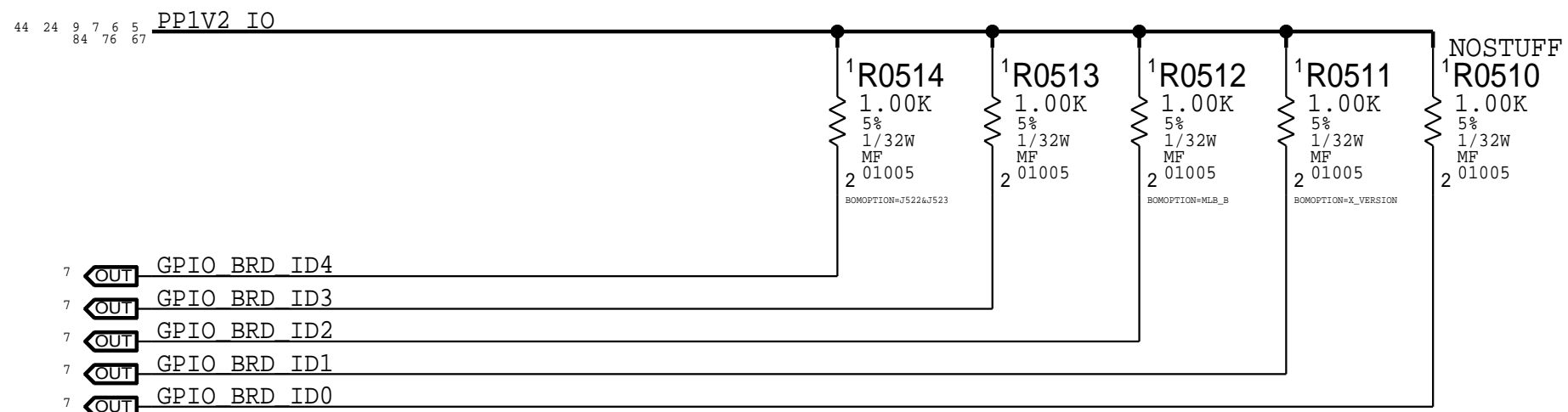
PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
311S00212	311S00230	U2370,U4030	TI SINGLE UNL. LT	

BOOT CONFIG ID



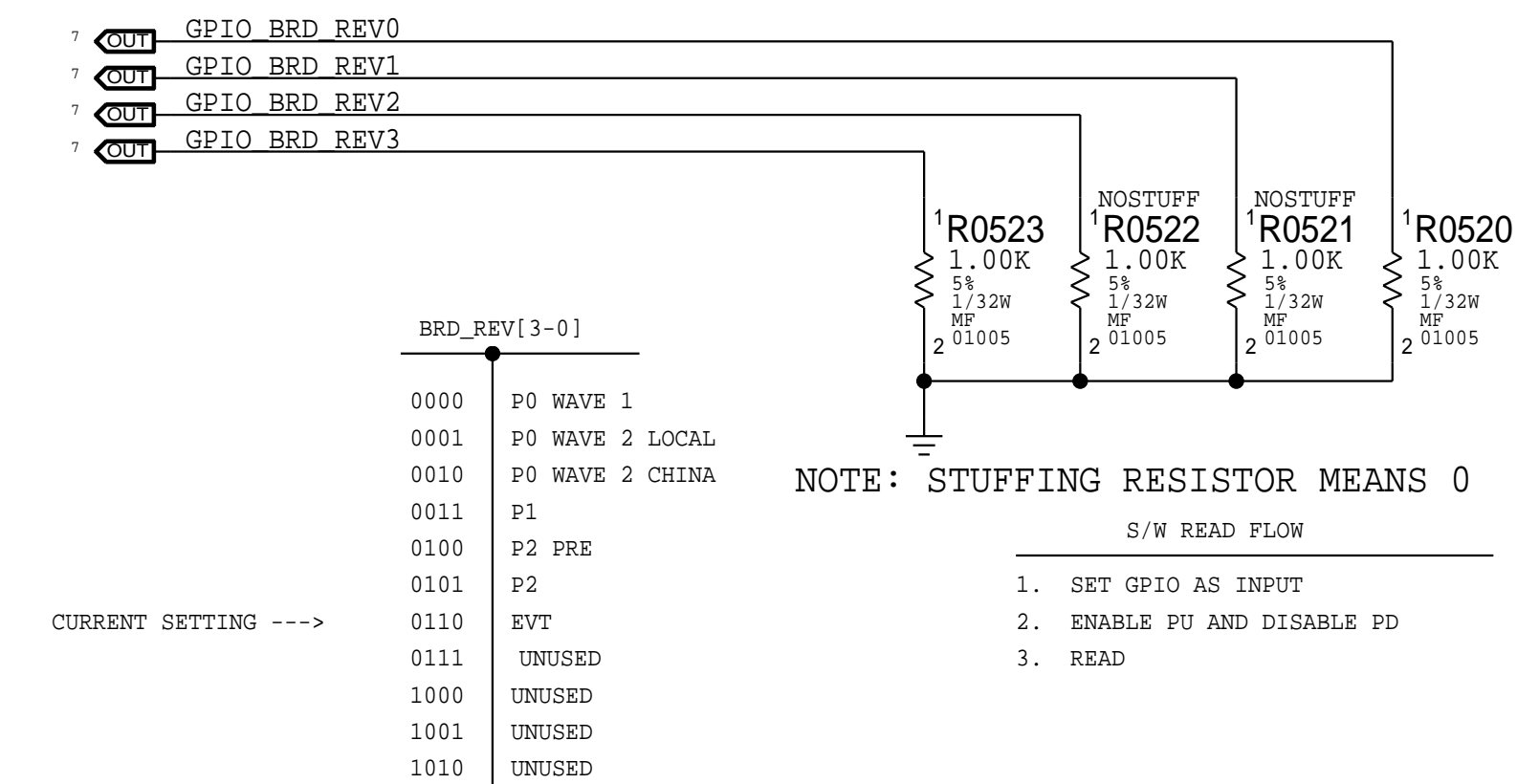
BOOT_CFG[3:0]	MODE	S/W READ FLOW
000	SP10 NOR	1. SET GPIO AS INPUT
001	SP10 NOR TEST	2. DISABLE PU AND ENABLE PD
010	SP10 NAND	3. READ
(PROTO) ----> 011	SP10 NAND TEST	
100	SP11 NOR (40MHZ)	
101	SP11 NOR (40MHZ) TEST	
110	SP11 NOR (6MHZ)	
111	SP11 NOR (6MHZ) TEST	

BOARD ID



BRD_ID[4-0]		S/W READ FLOW
01000	J517 AP	1. SET GPIO AS INPUT
01001	J517 DEV	2. DISABLE PU AND ENABLE PD
01010	J517X AP	3. READ
01011	J517X DEV	
01100	J518 AP	
01101	J518 DEV	
01110	J518X AP	
01111	J518X DEV	
11000	J522 AP	
11001	J522 DEV	
11010	J522X AP	
11011	J522X DEV	
11100	J523 AP	
11101	J523 DEV	
11110	J523X AP	
11111	J523X DEV	

BOARD REVISION

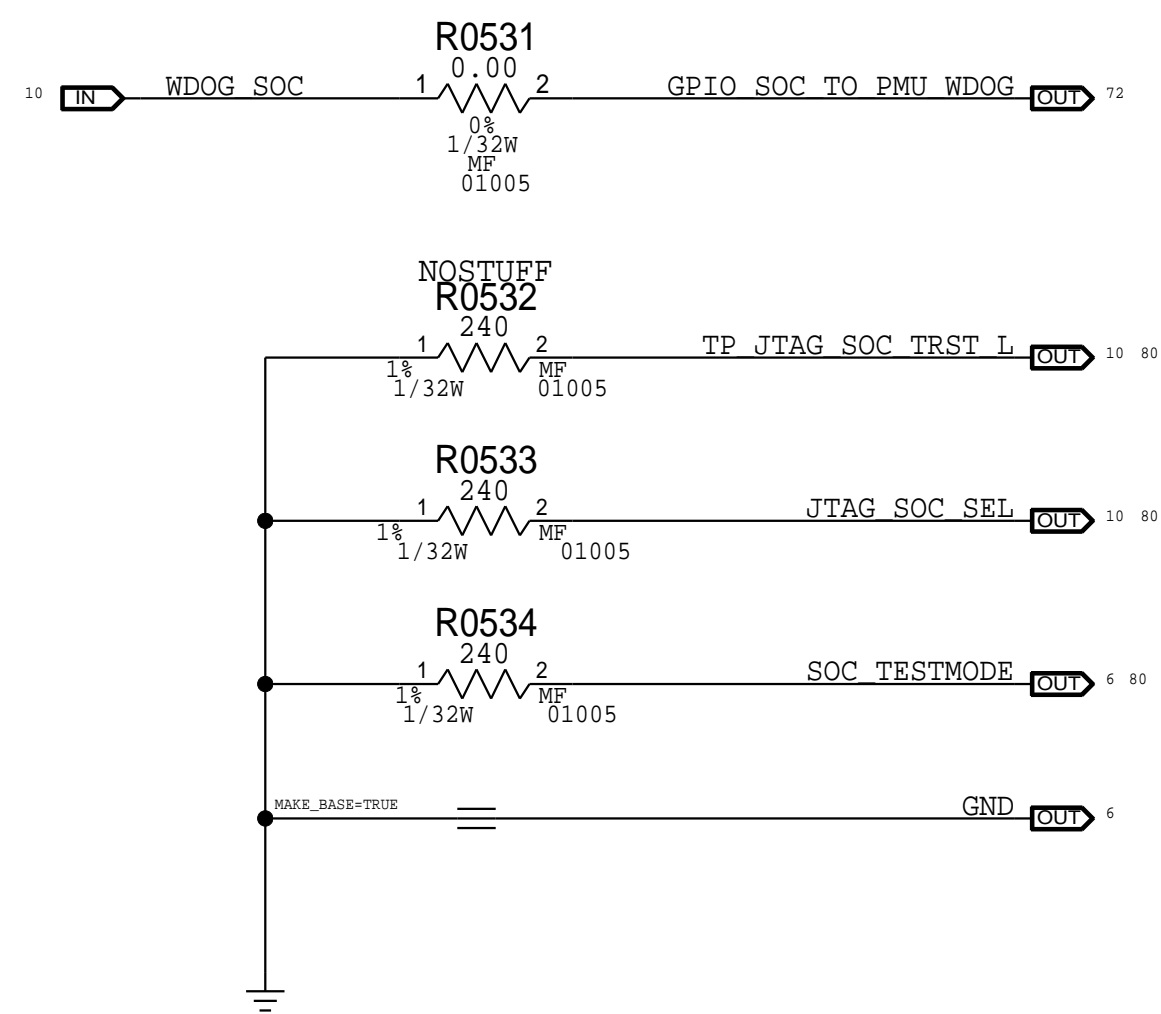


0000 P0 WAVE 1
 0001 P0 WAVE 2 LOCAL
 0010 P0 WAVE 2 CHINA
 0011 P1
 0100 P2 PRE
 0101 P2
 0110 EVT
 0111 UNUSED
 1000 UNUSED
 1001 UNUSED
 1010 UNUSED

NOTE: STUFFING RESISTOR MEAN
 S/W READ FLOW

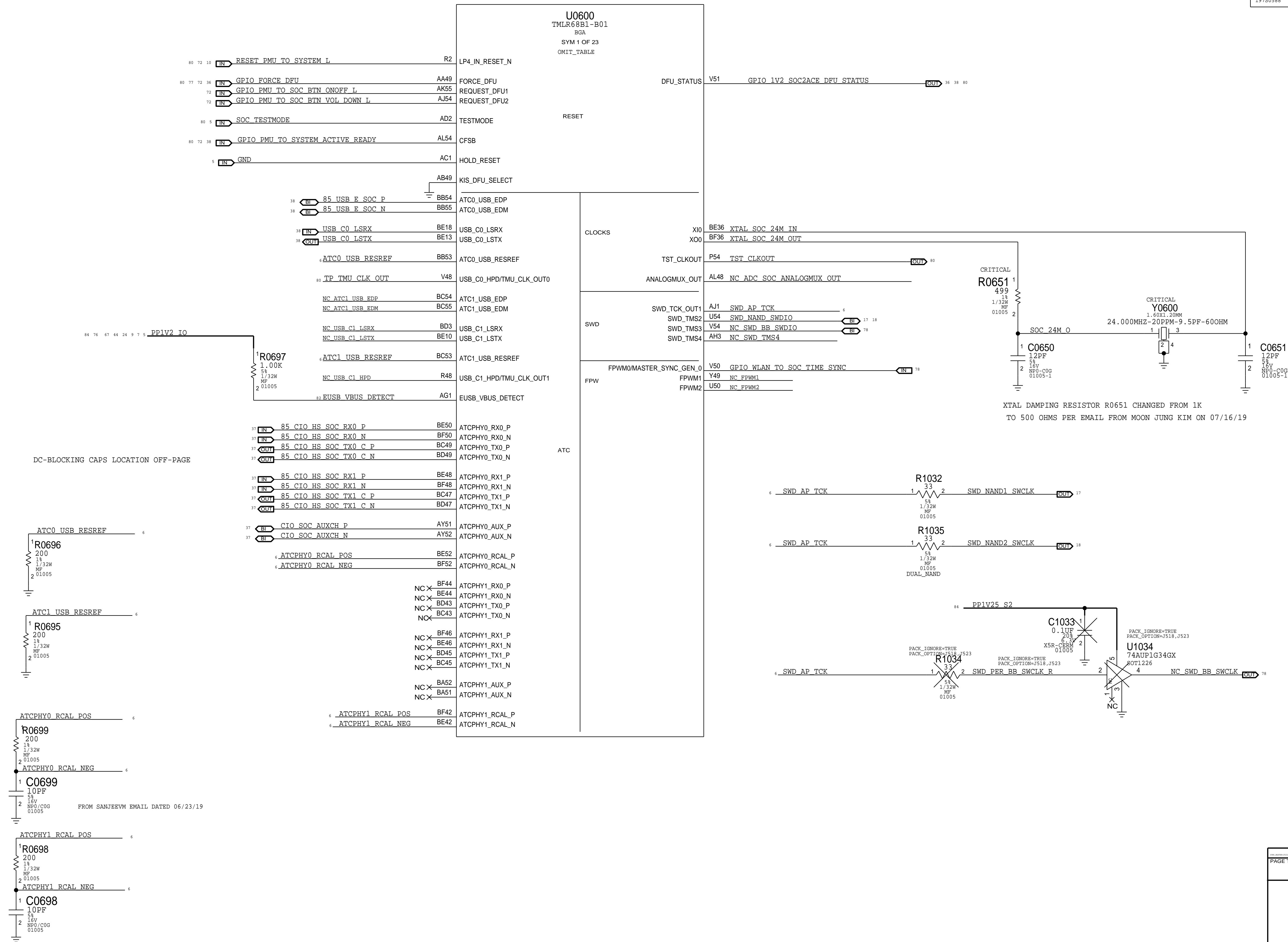
1. SET GPIO AS INPUT
2. ENABLE PU AND DISABE PD
3. READ

I2C0	DEVICE ACE(ONE-ACE) ACE(ALL)	8-BIT 0X70 0XD6	7-BIT 0X38 0X6B	80 7	IN	I2C0_SCL	NAME_BASE+TRUE	I2C0_SCL	OUT 36
				80 7	BI	I2C0_SDA	NAME_BASE+TRUE	I2C0_SDA	BI 36
I2C1	DEVICE SKR AMP CNRT SKR AMP CNRW SKR AMP CNLT SKR AMP CNLW SKR BOOST MST SKR BOOST SLV	8-BIT 0X78 0X7A 0X7C 0X7E 0X60 0X62	7-BIT 0X3C 0X3D 0X3E 0X3F 0X30 0X31	80 7	IN	I2C1_SCL	0.00 0A 1/32M 01005 MF R0550	I2C1_SCL R 5	
				80	BI	I2C1_SDA	0.00 1 2 R0551	I2C1_SDA R 5	
				5		I2C1_SCL R	NAME_BASE+TRUE	I2C1_SCL R	OUT 38
				5		I2C1_SDA R	NAME_BASE+TRUE	I2C1_SDA R	BI 30
I2C2	DEVICE BELLATRIX	8-BIT 0X26	7-BIT 0X13	80 7	IN	I2C2_SCL	NAME_BASE+TRUE	I2C2_SCL	OUT 68
				80 7	BI	I2C2_SDA	NAME_BASE+TRUE	I2C2_SDA	BI 68
I2C3	DEVICE SKR AMP FHRT SKR AMP FHRW SKR AMP FHLT SKR AMP FHLW	8-BIT 0X70 0X72 0X74 0X76	7-BIT 0X38 0X39 0X7A 0X3A	81 7	IN	I2C3_SCL	0.00 0A 1/32M 01005 MF R0560	I2C3_SCL R 5	
				81 7	BI	I2C3_SDA	0.00 1 2 R0561	I2C3_SDA R 5	
				5		I2C3_SCL R	NAME_BASE+TRUE	I2C3_SCL R	OUT 33
				5		I2C3_SDA R	NAME_BASE+TRUE	I2C3_SDA R	OUT 33
I2C4	DEVICE TCOIN(LARKSPUR) TEMP(U2400) TEMP(U2401) TEMP(U2402)	8-BIT 0X10 0X82 0X80 0X82	7-BIT 0X08 0X71 0X70 0X72	7	IN	I2C4_SCL 1V8	NAME_BASE+TRUE	I2C4_SCL 1V8	OUT 42
				7	BI	I2C4_SDA 1V8	NAME_BASE+TRUE	I2C4_SDA 1V8	BI 42
AOP I2C0	DEVICE ALS - C4 ALS - C3 YOGI(ROSALINE) DOPPLER (ROSA)	8-BIT 0X52 0X72 0X66 0XB0	7-BIT 0X29 0X39 0X33 0X58	80 10	IN	I2C AOP I2CM0_SCL	NAME_BASE+TRUE	I2C AOP I2CM0_SCL	OUT 41
				10	BI	I2C AOP I2CM0_SDA	NAME_BASE+TRUE	I2C AOP I2CM0_SDA	BI 41
AOP I2C1	DEVICE SCOR. DOTARA	8-BIT 0X72	7-BIT 0X39	80 10	IN	I2C AOP I2CM1_SCL	NAME_BASE+TRUE	I2C AOP I2CM1_SCL	OUT 76
				80 10	BI	I2C AOP I2CM1_SDA	NAME_BASE+TRUE	I2C AOP I2CM1_SDA	BI 76
SMC I2C0	DEVICE POTOMAC	8-BIT 0XEA	7-BIT 0X75	10	IN	I2C SMC I2CM0_SCL	NAME_BASE+TRUE	I2C SMC I2CM0_SCL	OUT 74
					BI	I2C SMC I2CM0_SDA	NAME_BASE+TRUE	I2C SMC I2CM0_SDA	BI 74
SMC I2C1	DEVICE ACE2	8-BIT 0X70	7-BIT 0X38		IN	I2C SMC I2CM1_SCL	NAME_BASE+TRUE	I2C SMC I2CM1_SCL	OUT 36
					BI	I2C SMC I2CM1_SDA	NAME_BASE+TRUE	I2C SMC I2CM1_SDA	BI 36
SMC I2C2	DEVICE GASGAUGE	8-BIT 0XAA	7-BIT 0X55	10	IN	I2C SMC I2CM2_SCL	NAME_BASE+TRUE	I2C SMC I2CM2_SCL	OUT 76
					BI	I2C SMC I2CM2_SDA	NAME_BASE+TRUE	I2C SMC I2CM2_SDA	BI 76
SMC I2C3	NOT USED								
SMC I2C4	NOT USED								
RPMU I2C1	DEVICE RCAM1(FOCUS) RCAM1(IN) STROBE1 STROBE2	8-BIT 0X18 0X20 0X0E 0XCE	7-BIT 0X0C 0X10 0X53 0X67	56	IN	I2C1 RCAM PMU_SCL 1V8	NAME_BASE+TRUE	I2C1 RCAM PMU_SCL 1V8	OUT 27
					BI	I2C1 RCAM PMU_SDA 1V8	NAME_BASE+TRUE	I2C1 RCAM PMU_SDA 1V8	BI 27
RPMU I2C2	DEVICE JA PERISCOPE JA RIKER JA EPROM	8-BIT 0X20 0X66 0XA2	7-BIT 0X10 0X33 0X51	56	IN	I2C2 RCAM PMU_SCL 1V8	NAME_BASE+TRUE	I2C2 RCAM PMU_SCL 1V8	OUT 60
					BI	I2C2 RCAM PMU_SDA 1V8	NAME_BASE+TRUE	I2C2 RCAM PMU_SDA 1V8	BI 60
RPMU I2C3	DEVICE WILL	8-BIT 0X80	7-BIT 0X40	81 56	IN	I2C3 RCAM PMU_SCL 1V8	NAME_BASE+TRUE	I2C3 RCAM PMU_SCL 1V8	OUT 57
					BI	I2C3 RCAM PMU_SDA 1V8	NAME_BASE+TRUE	I2C3 RCAM PMU_SDA 1V8	BI 57
RPMU I2C4	DEVICE RCAM2(OH)	8-BIT 0X40	7-BIT 0X20	56	IN	I2C4 RCAM PMU_SCL 1V8	NAME_BASE+TRUE	I2C4 RCAM PMU_SCL 1V8	OUT 59
					BI	I2C4 RCAM PMU_SDA 1V8	NAME_BASE+TRUE	I2C4 RCAM PMU_SDA 1V8	BI 59
FPMU I2C1	DEVICE WIDE FCAM	8-BIT 0X20	7-BIT 0X10	WIDE FCAM NON-POR					
FPMU I2C2	DEVICE SWIDE FCAM	8-BIT 0XE0	7-BIT 0X70	62	IN	I2C2 FCAM PMU_SCL 1V8	NAME_BASE+TRUE	I2C2 FCAM PMU_SCL 1V8	OUT 26
				62	BI	I2C2 FCAM PMU_SDA 1V8	NAME_BASE+TRUE	I2C2 FCAM PMU_SDA 1V8	BI 26
FPMU I2C3	DEVICE JULIET	8-BIT 0X30	7-BIT 0X18	62	IN	I2C3 FCAM PMU_SCL 1V8	NAME_BASE+TRUE	I2C3 FCAM PMU_SCL 1V8	OUT 40
					BI	I2C3 FCAM PMU_SDA 1V8	NAME_BASE+TRUE	I2C3 FCAM PMU_SDA 1V8	BI 40
FPMU I2C4	DEVICE TITUS RIGEL2	8-BIT 0XCC 0XAA	7-BIT 0X66 0X55	62	IN	I2C4 FCAM PMU_SCL 1V8	NAME_BASE+TRUE	I2C4 FCAM PMU_SCL 1V8	OUT 39
					BI	I2C4 FCAM PMU_SDA 1V8	NAME_BASE+TRUE	I2C4 FCAM PMU_SDA 1V8	BI 39



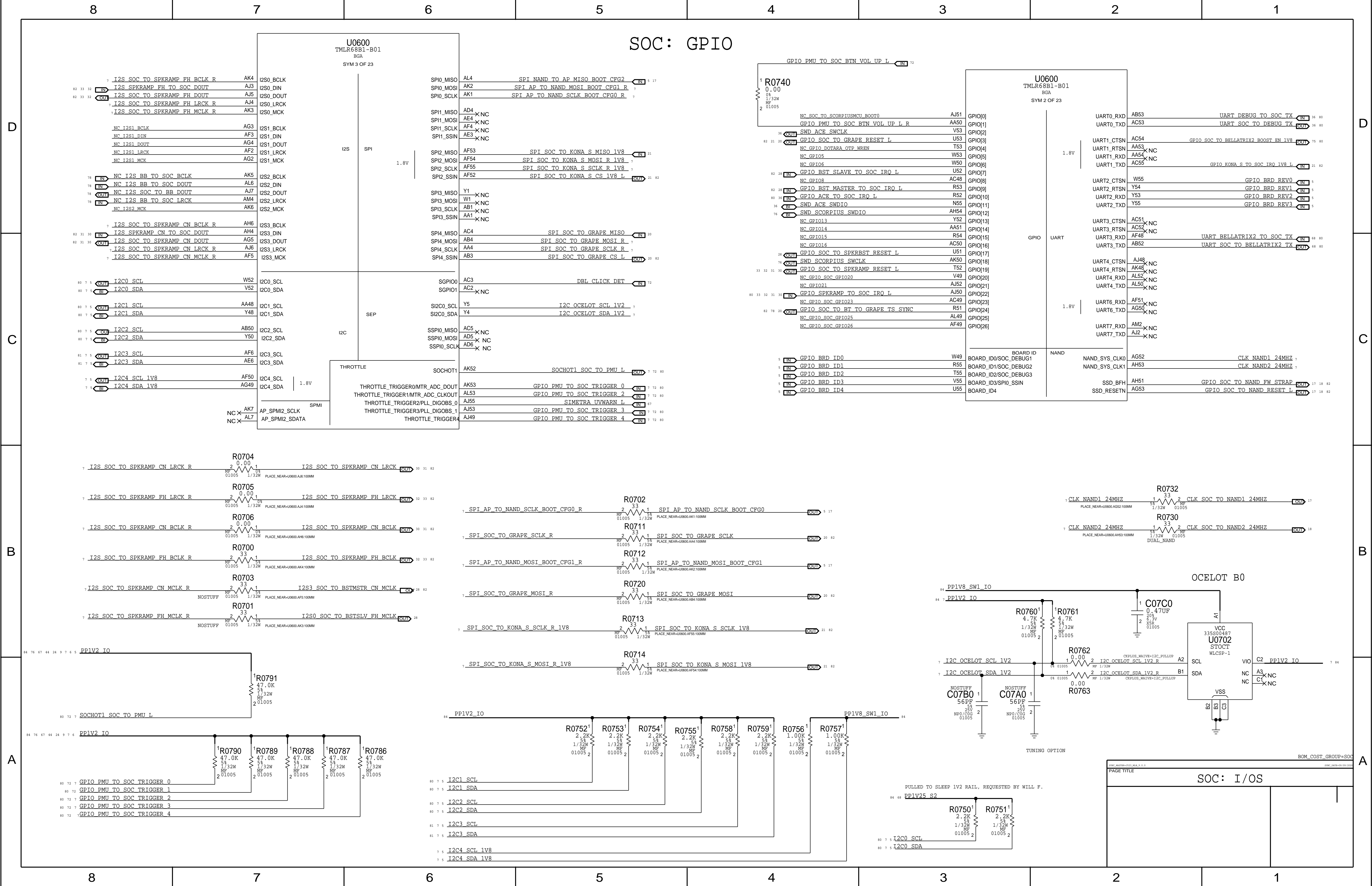
SOC: MAIN

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0590	197S0591		Y0600	EPSON, 24MHZ.XTAL
197S0588	197S0591		Y0600	TXC, 24MHZ, XTAL

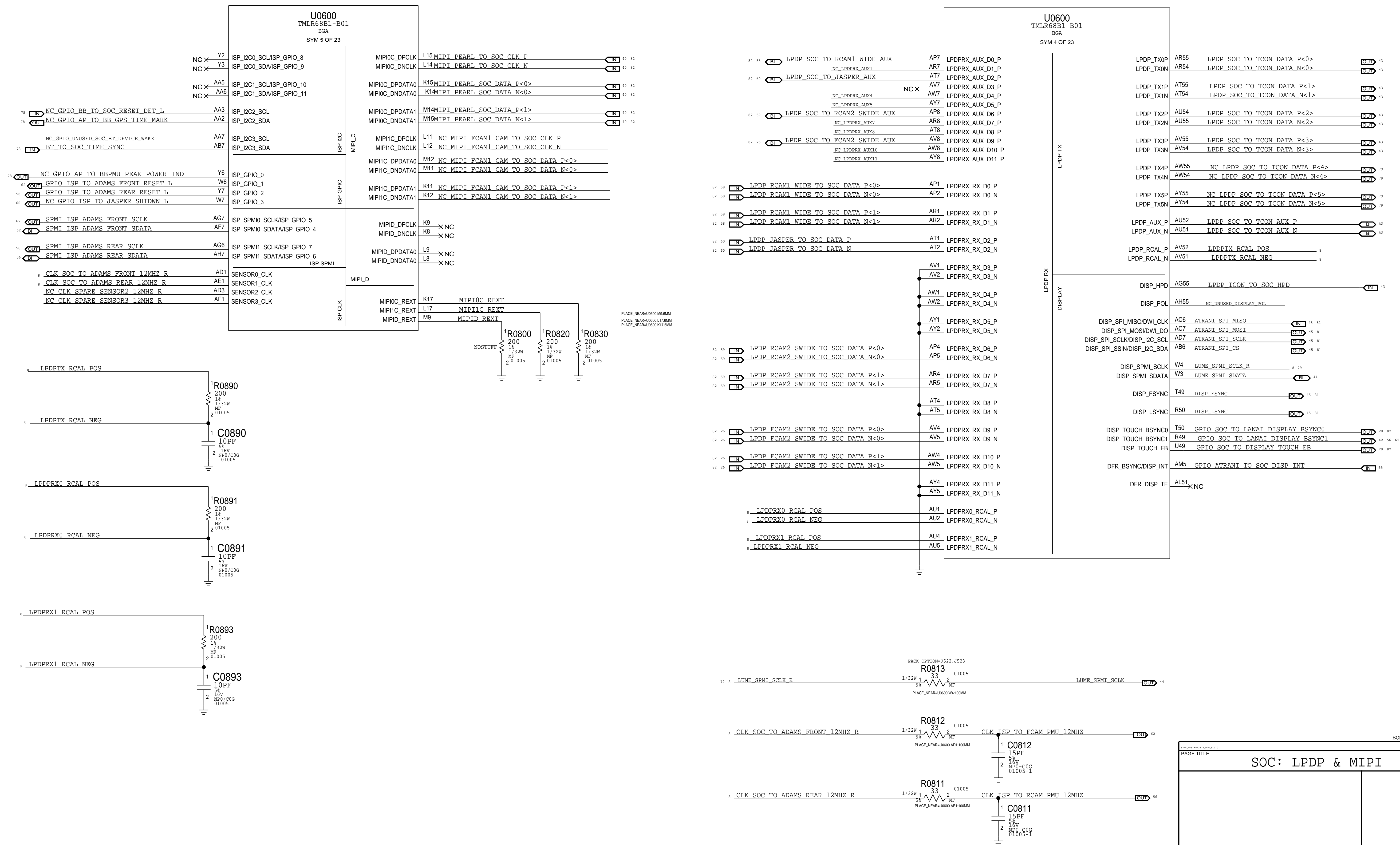


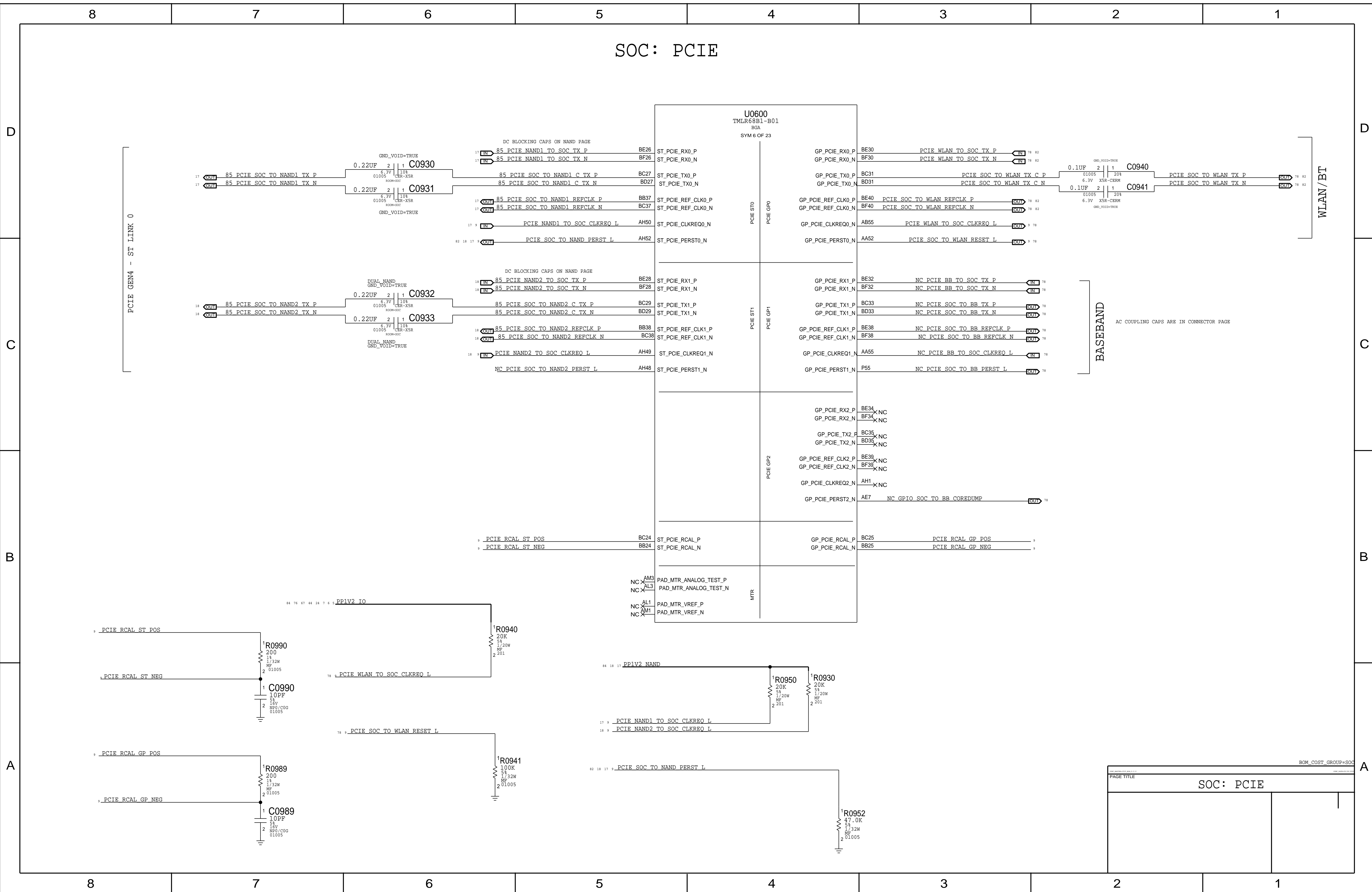
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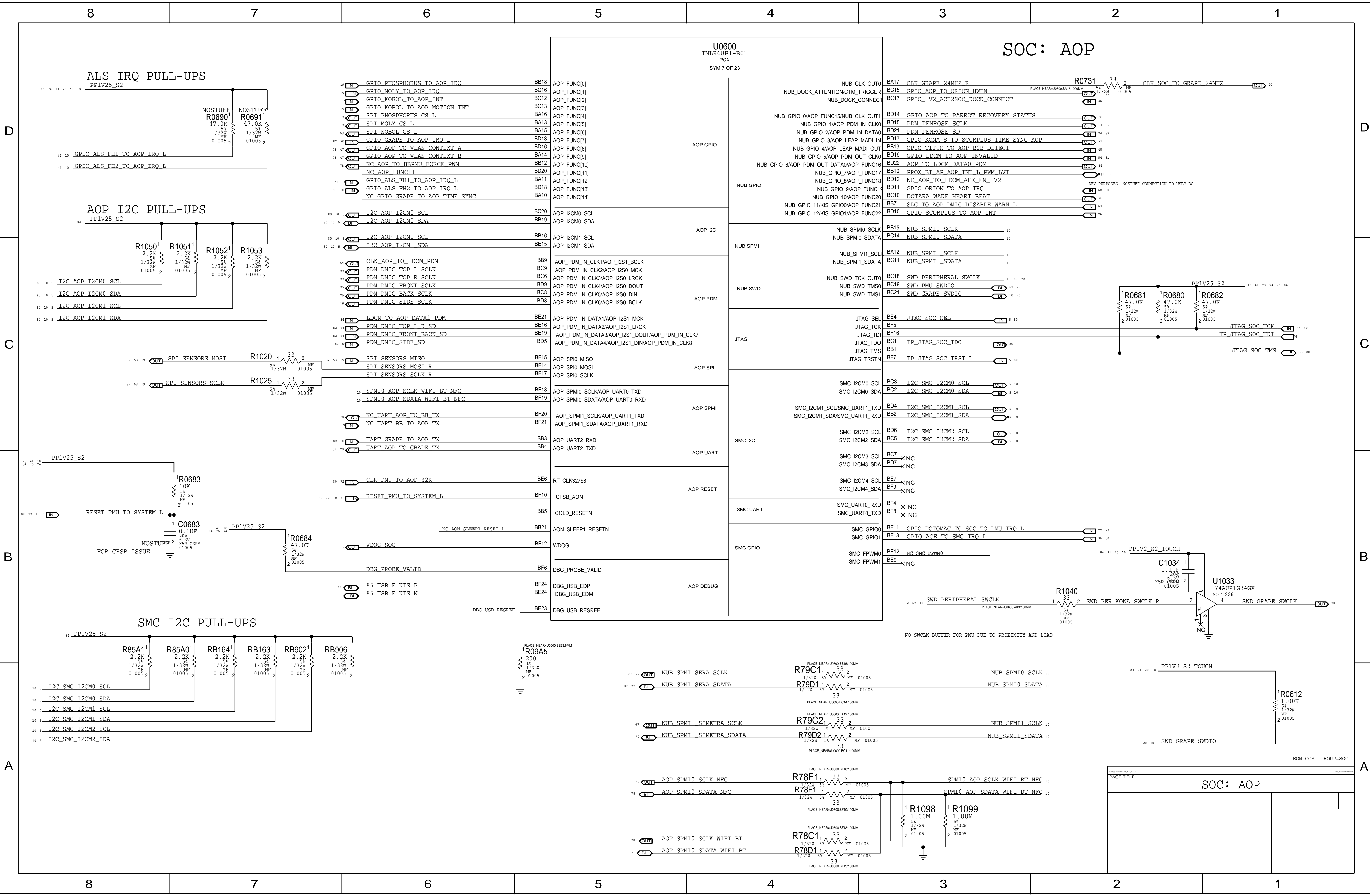
PAGE TITLE	
SOC: MAIN	



SOC: LPDP & MIPI

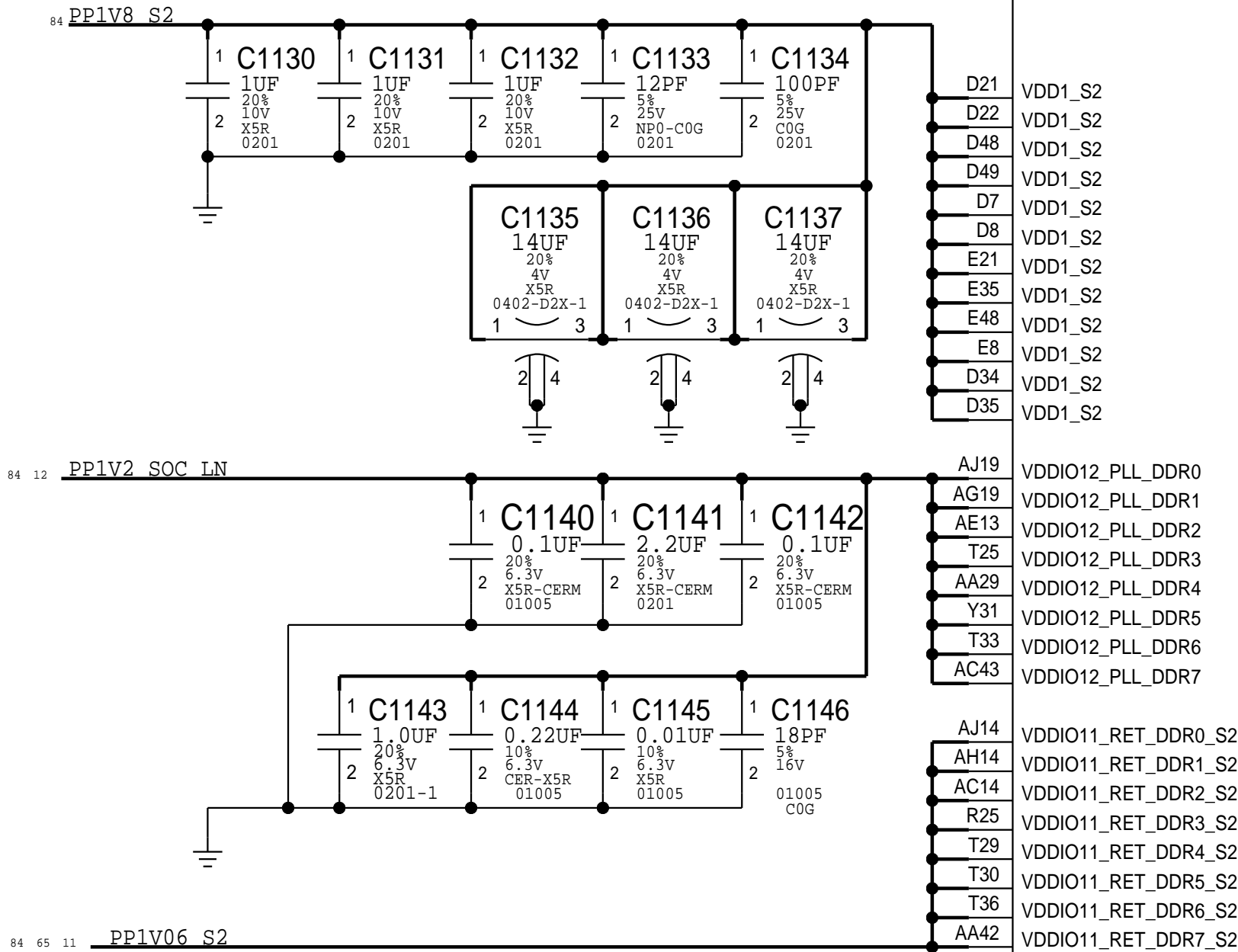
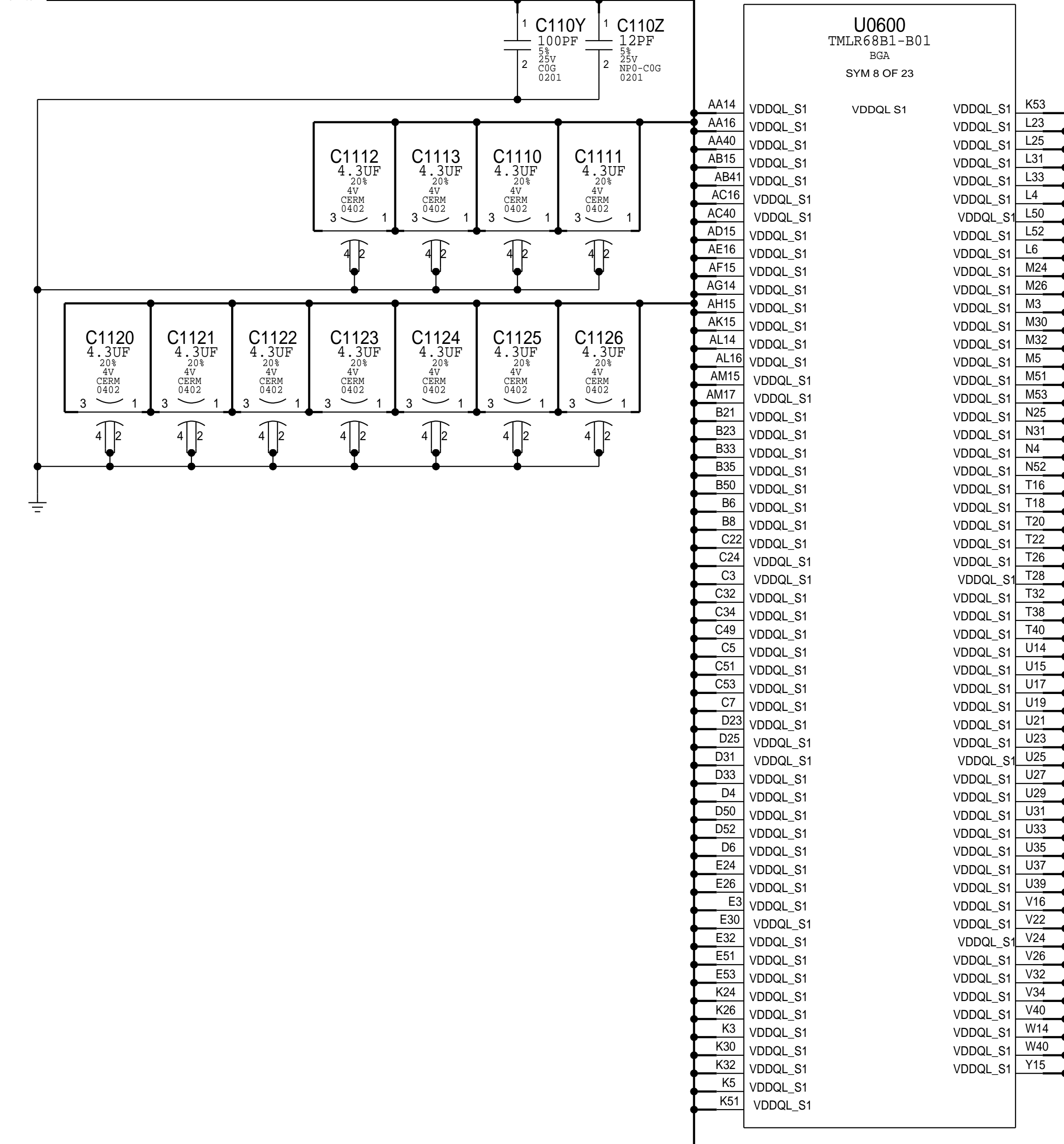




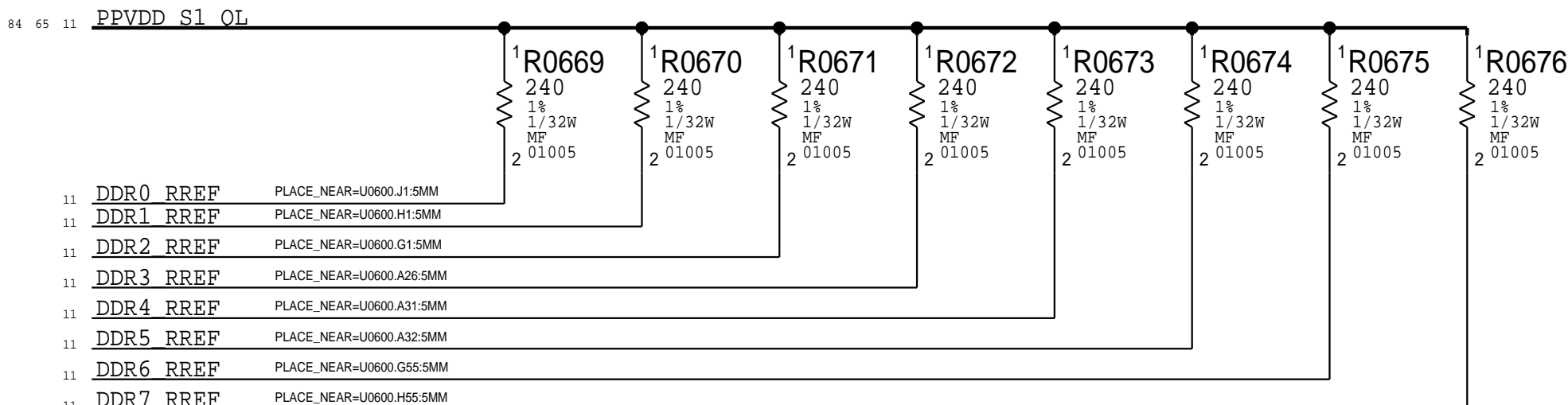
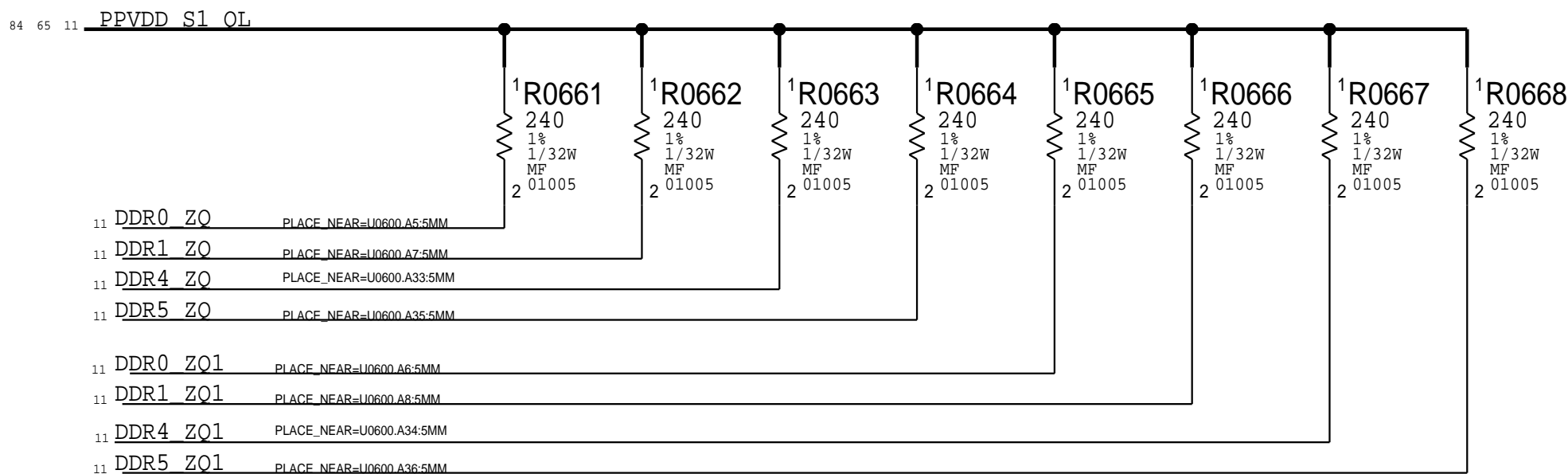


SOC: POWER (DDR)

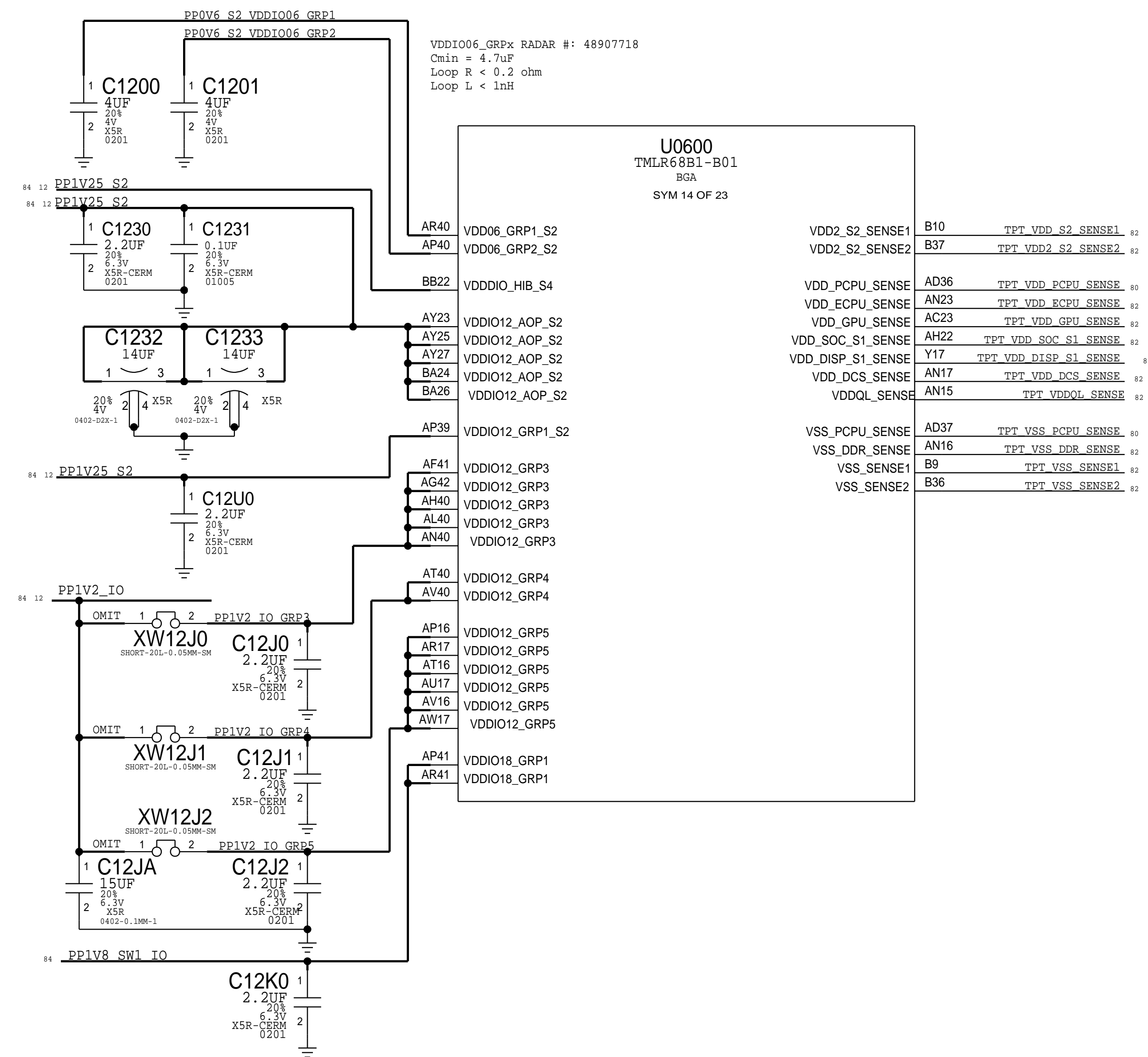
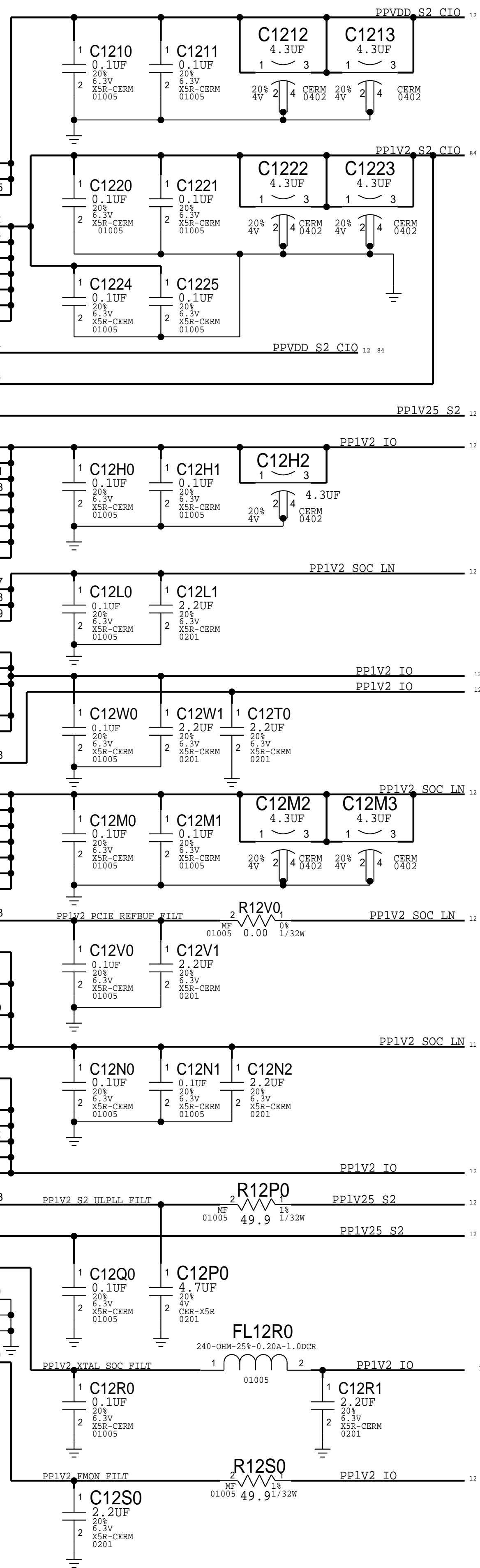
84 65 11 PPVDD S1 OL



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

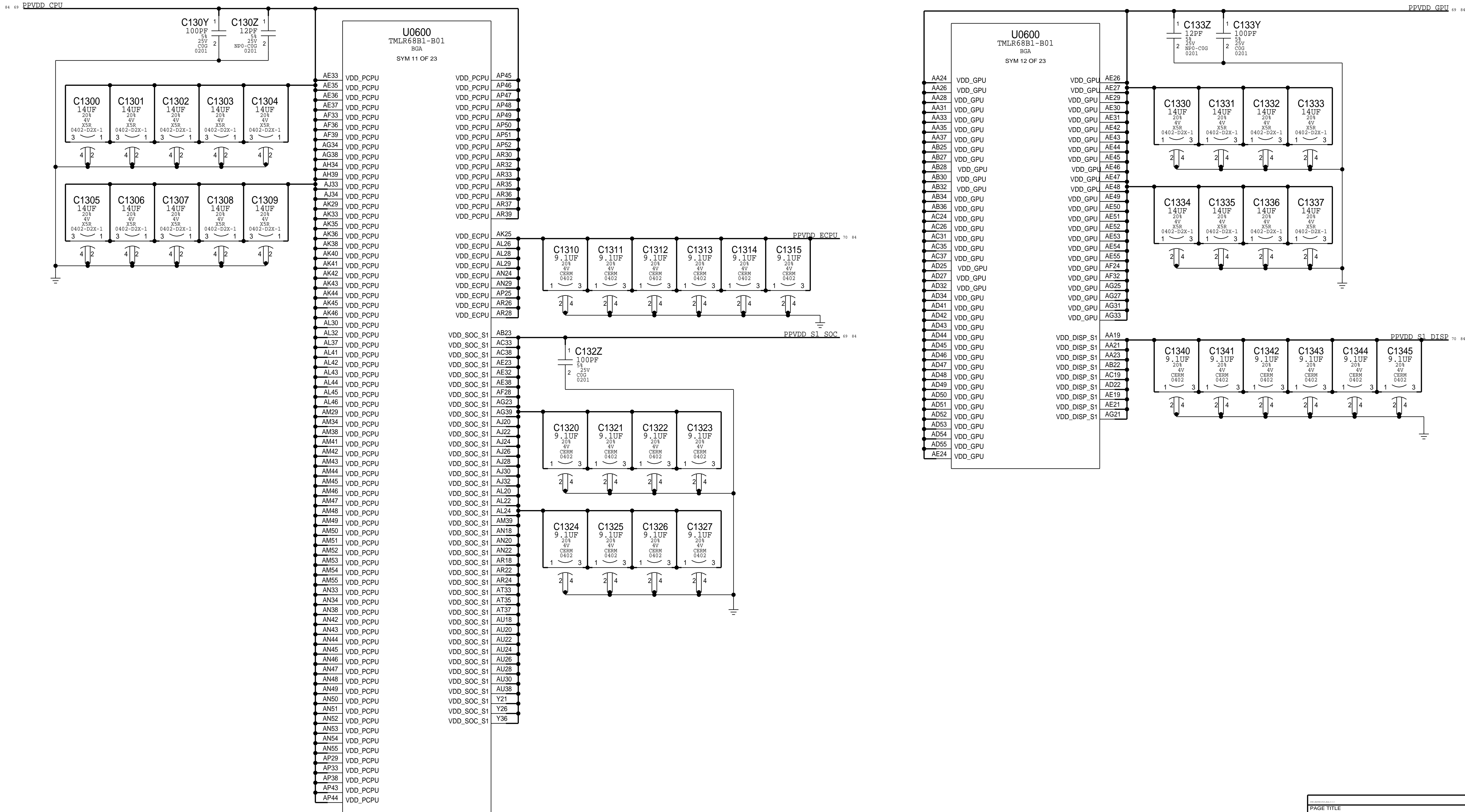


PAGE TITLE		
SOC: POWER (DDR,SRAM)		



VDD2_S2 Sense1	B10	TPT VDD S2 SENSE1	62
VDD2_S2 Sense2	B37	TPT VDD2 S2 SENSE2	62
VDD_PCPU_Sense	AD36	TPT VDD PCPU SENSE	60
VDD_EFCPU_Sense	AN23	TPT VDD EFCPU SENSE	60
VDD_GPU_Sense	AC23	TPT VDD GPU SENSE	62
VDD_SOC_S1_Sense	AH22	TPT VDD SOC S1 SENSE	62
VDD_DISP_S1_Sense	Y17	TPT VDD DISP S1 SENSE	8
VDD_DCS_Sense	AN17	TPT VDD DCS SENSE	62
VDDQL_Sense	AN15	TPT VDDQL SENSE	62
VSS_PCPU_Sense	AD37	TPT VSS PCPU SENSE	60
VSS_DDR_Sense	AN16	TPT VSS DDR SENSE	60
VSS_Sense1	B9	TPT VSS SENSE1	62
VSS_Sense2	B36	TPT VSS SENSE2	62

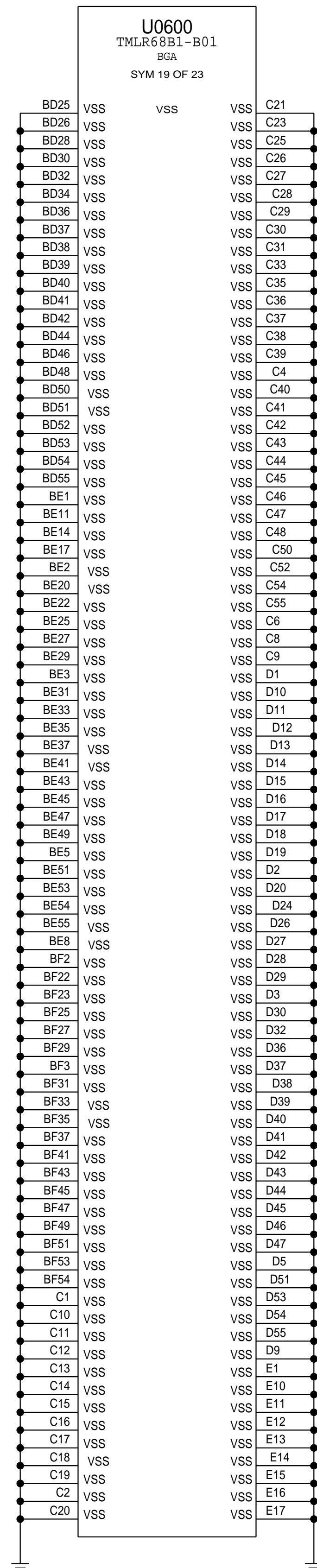
SOC: POWER (CPU, GPU)



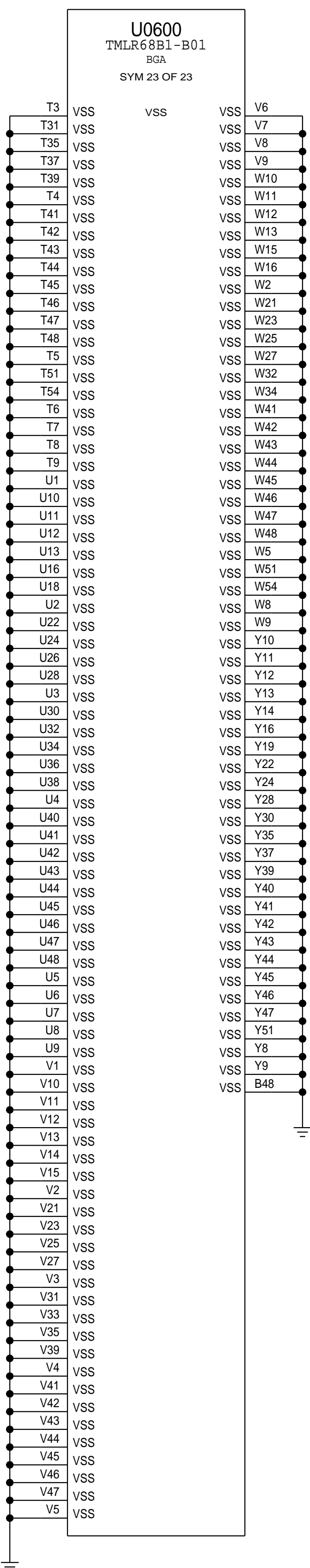
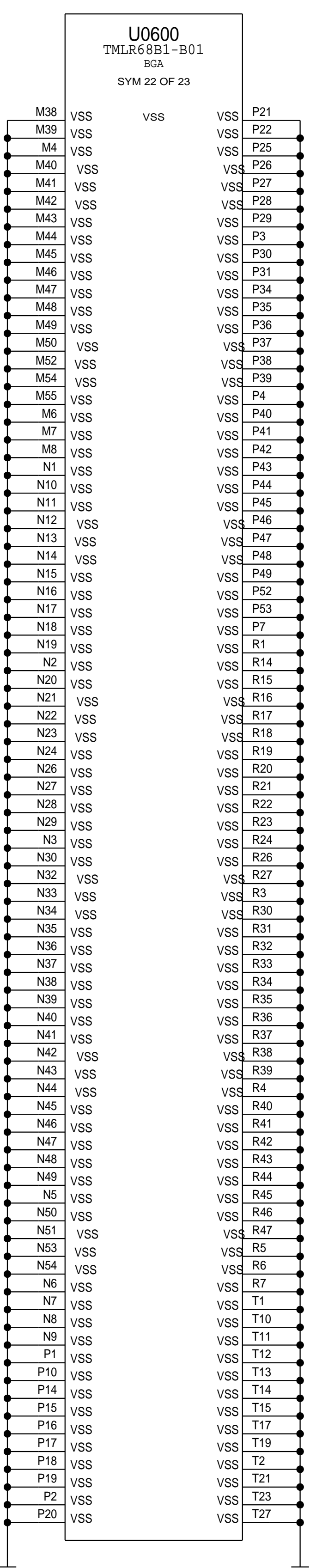
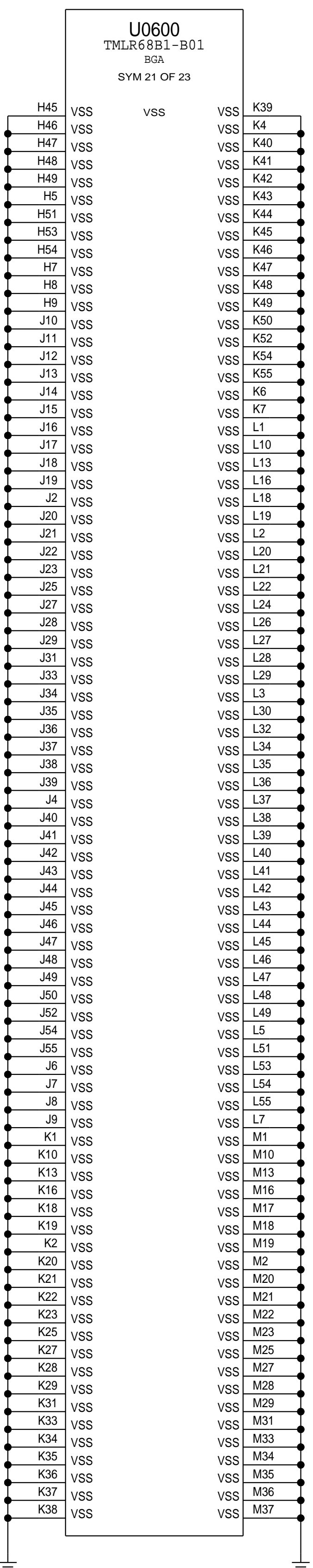
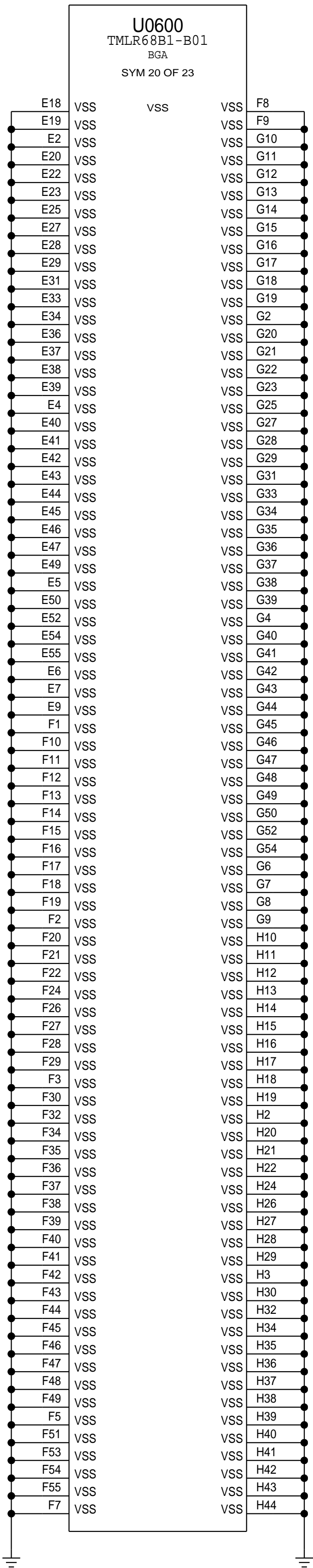
BOM_COST_GROUP=SOC

PAGE TITLE

SOC: POWER (CPU, GPU)



SOC: GND (2)



S5E NAND 1

D

C

B

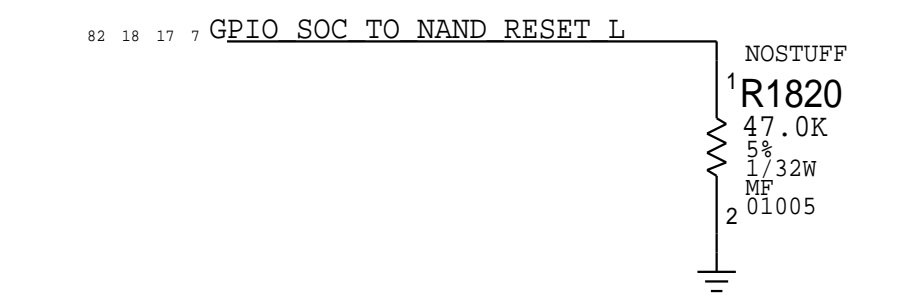
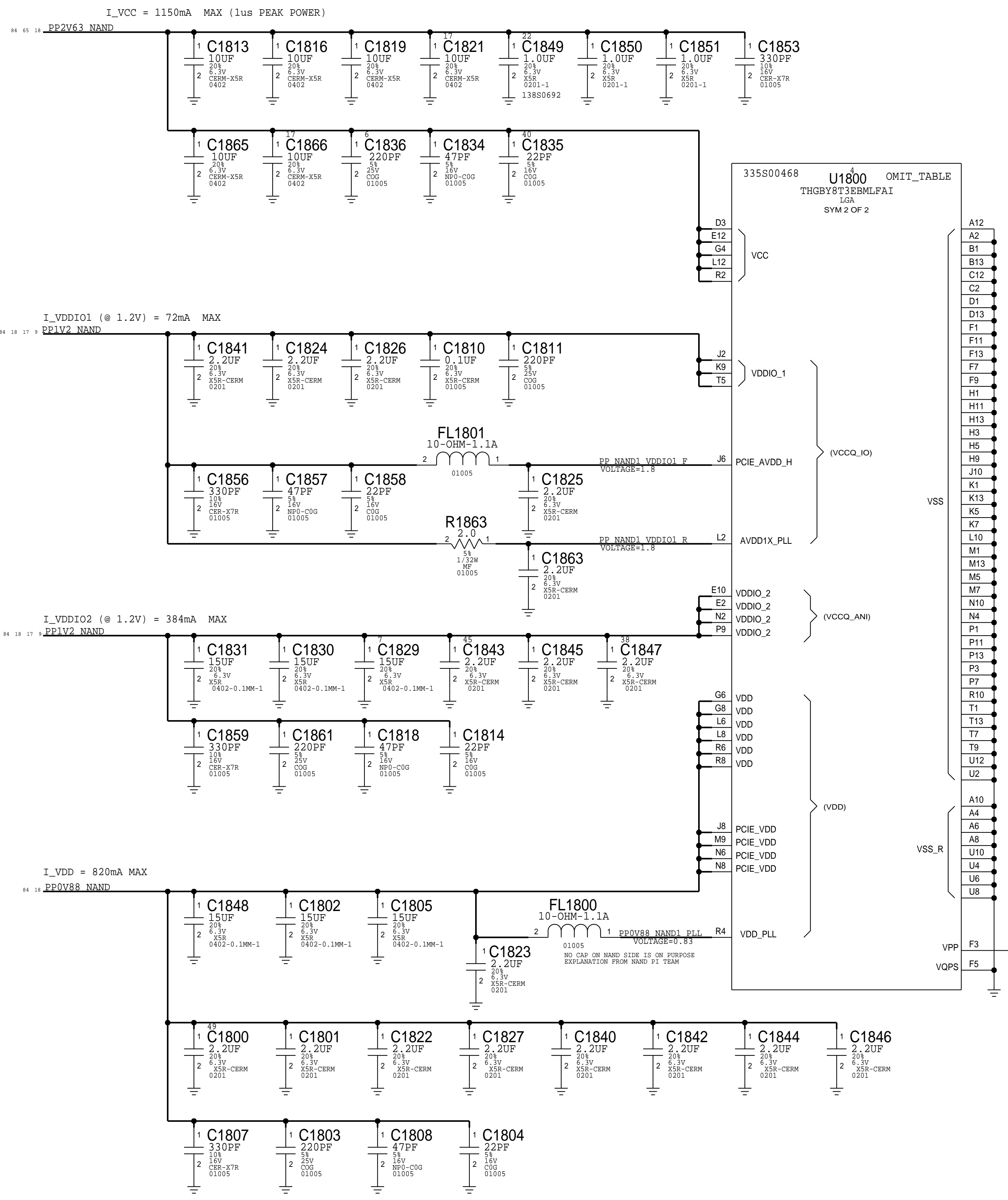
A

D

C

B

A

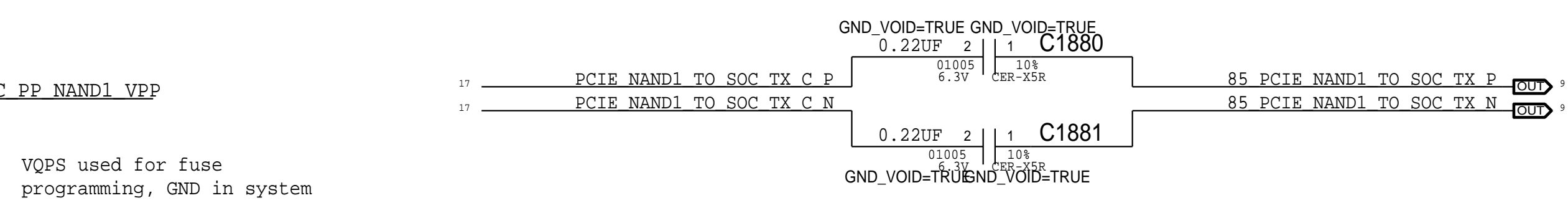
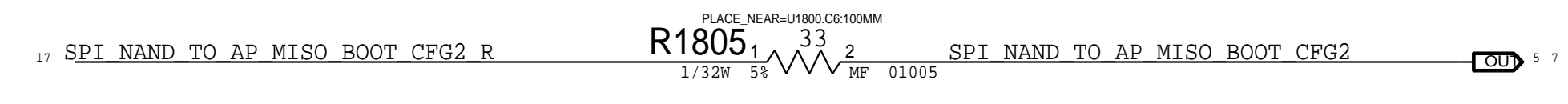
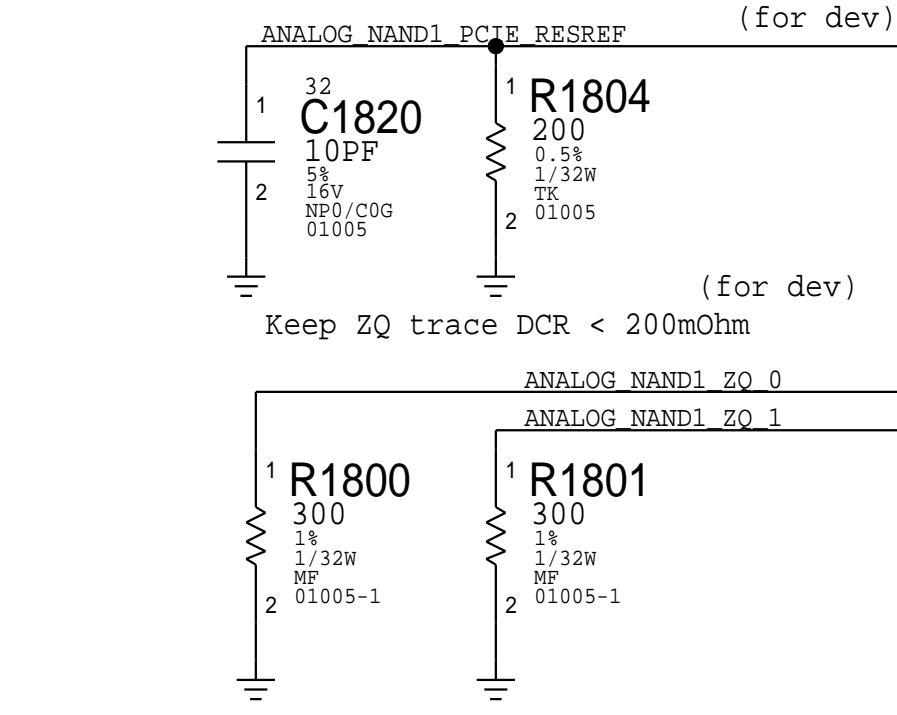
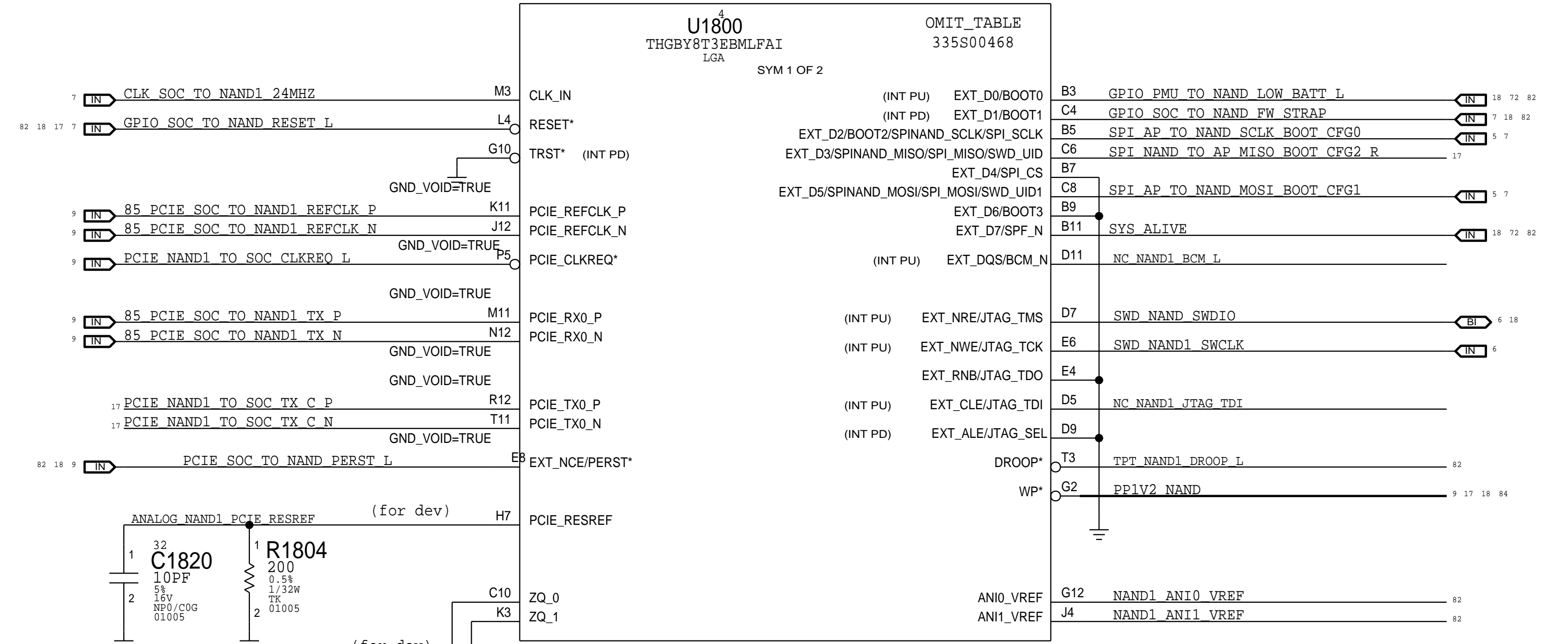


NOTES:

INT PU = internal pull up to VDDIO_1

INT PD = internal pull down to VSS

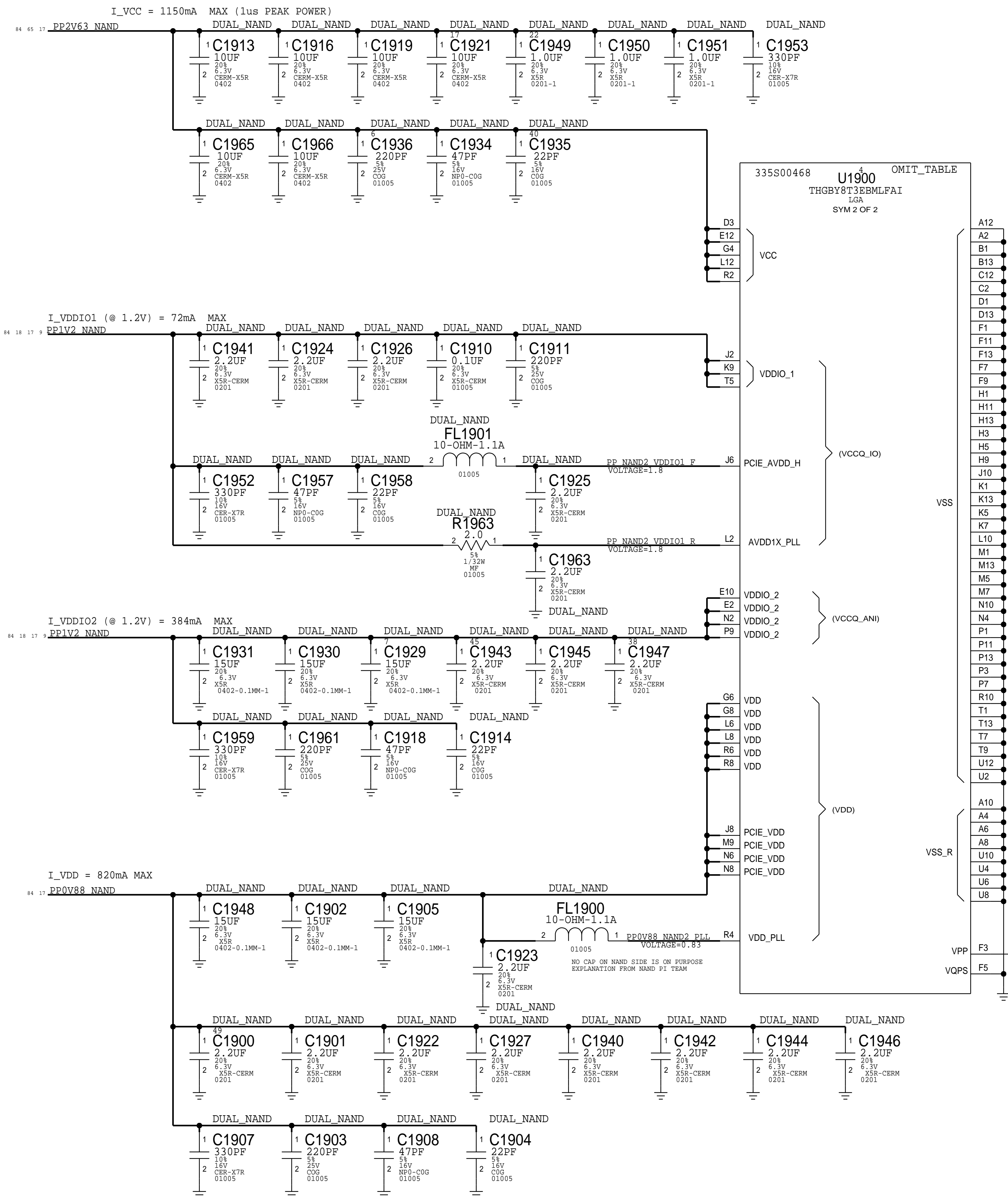
Internal pulls are 40kOhm (min), 80kOhm (typ), 165kOhm (max)



VQPS used for fuse programming, GND in system

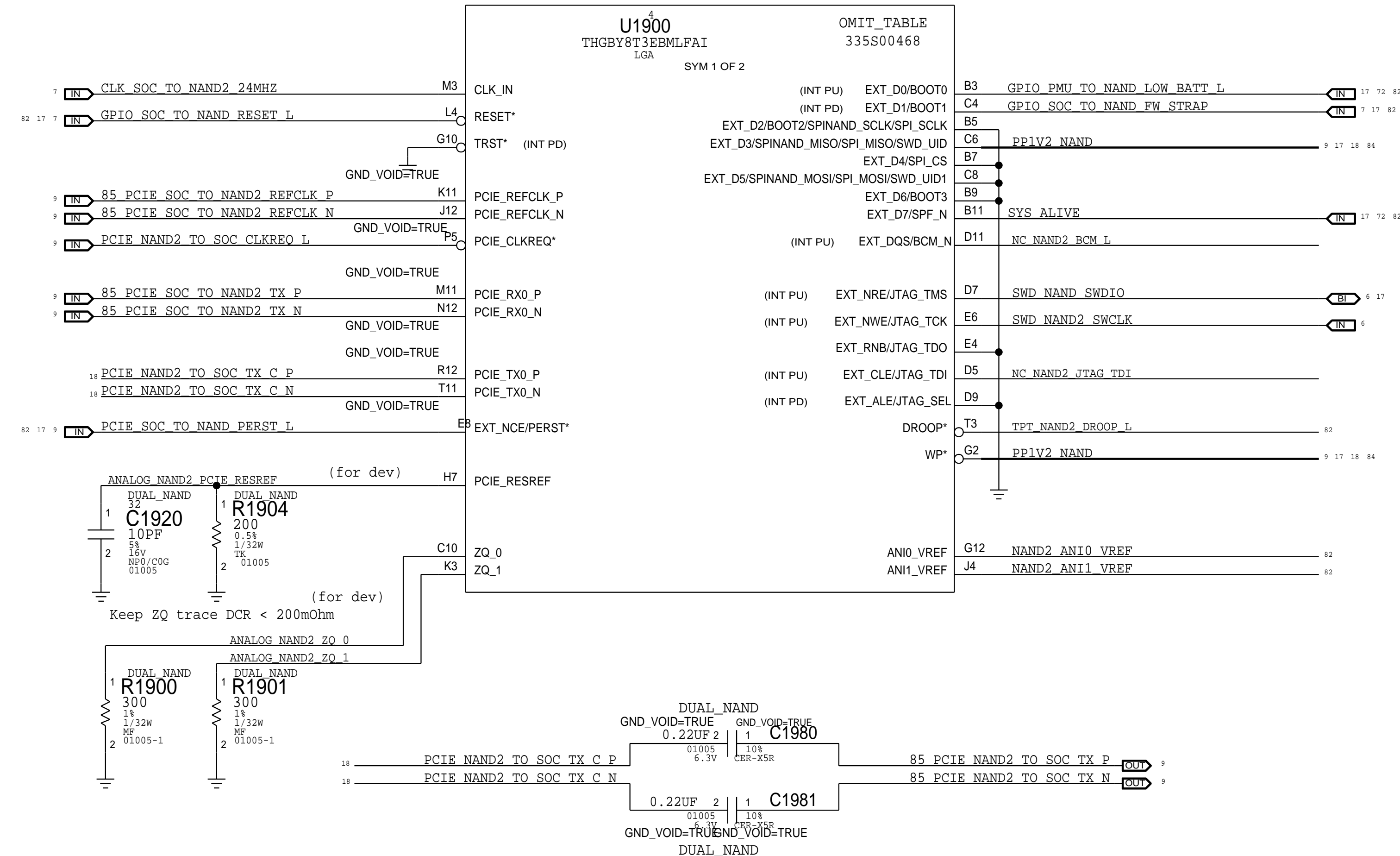
PAGE TITLE		
NAND		
BOM_COST_GROUP=NAND		

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

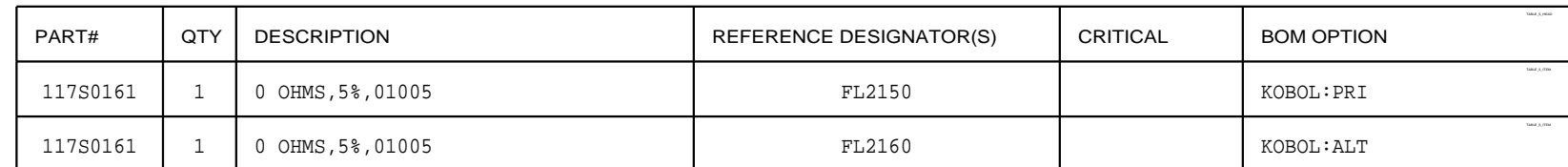
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PAGE TITLE	NAND

D

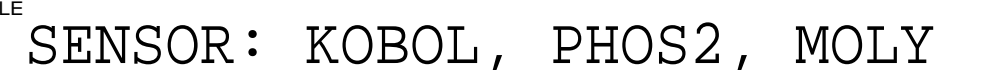
C

B

A



LVT FOR DMIC DATA IS ON GPM PAGE (CSA 76)

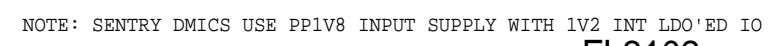


BOM_COST_GROUP=SENSORS

NOTE: PINOUT UPDATED PER J522 COMPASS_FLEX REV 0.3

D

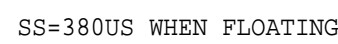
C



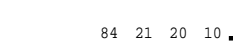
NOTE: SENTRY DMICS USE PP1V8 INPUT SUPPLY WITH 1V2 INT LDO'ED IO



DOMBRA BST/LDO




U2200
BCM15957A0
BGA
SYM 1 OF 2



ADP7112ACBZ-1.2-R7

A1	VIN	U22A1 ADP7112 WLSCP 353S02157	VOUT	A2
C1	EN		SENSE/ADJ	B1
			SS	
		GND		



380US WHEN FLOATING

CRITICAL
R2222

SYM 2 OF 2

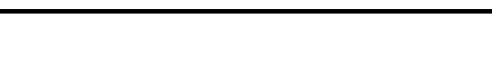
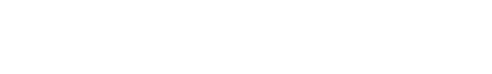
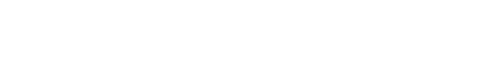
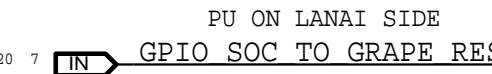
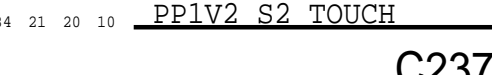
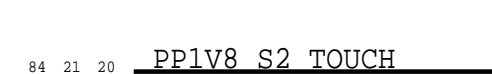
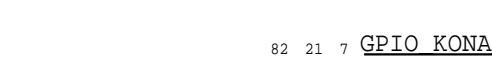
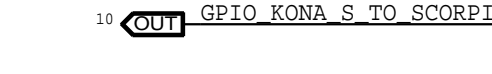
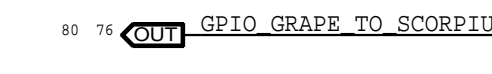
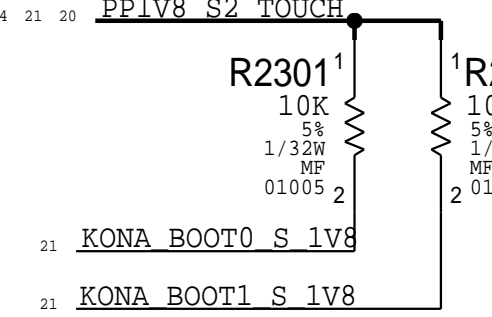


TOUCH: LANAI MASTER

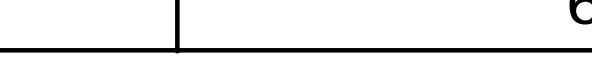
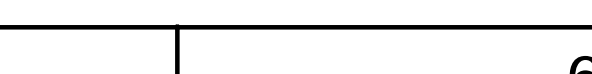
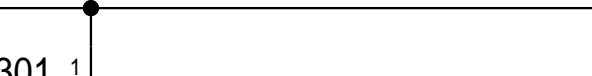
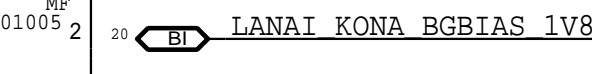
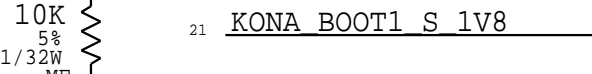
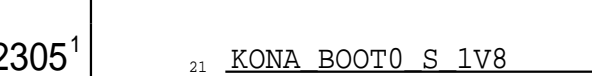
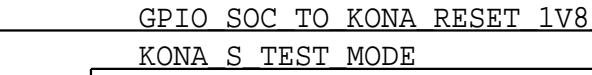
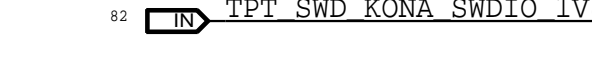
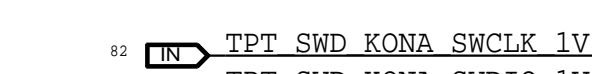
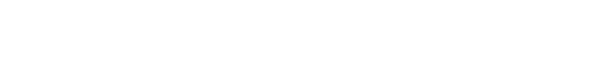
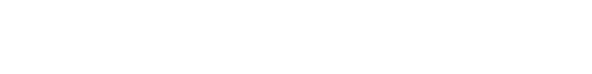
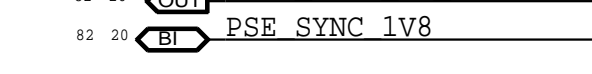
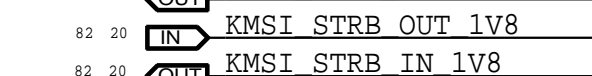
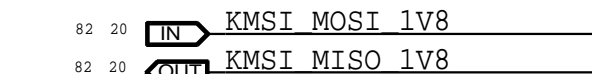
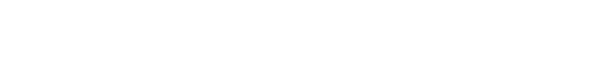
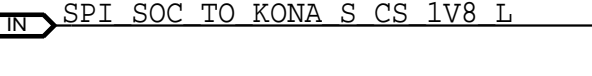
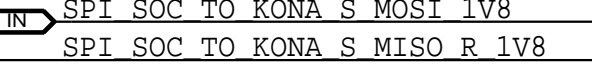
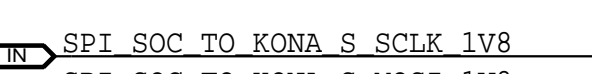
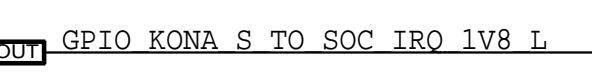
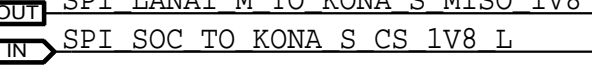
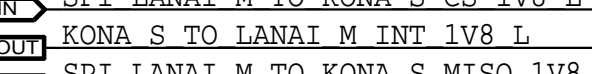
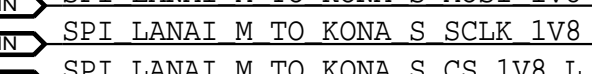
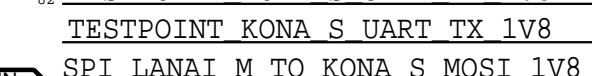
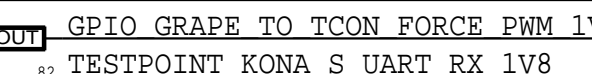
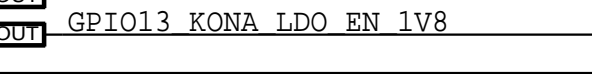
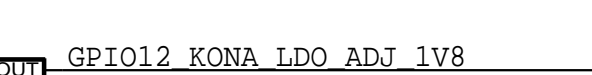
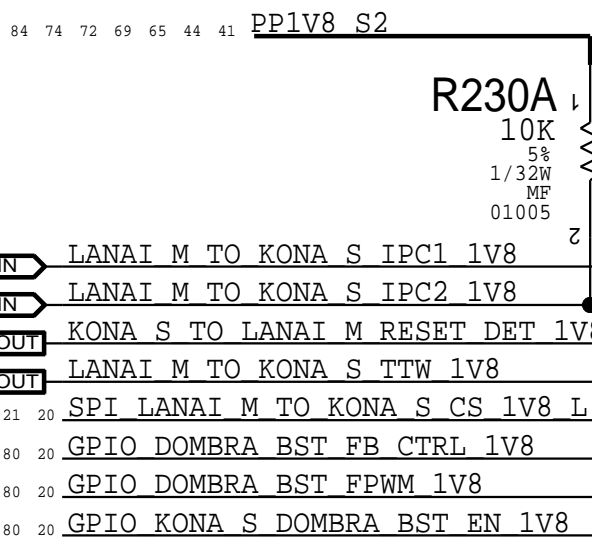


KONA: SLAVE

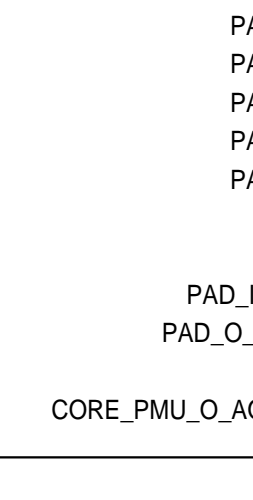
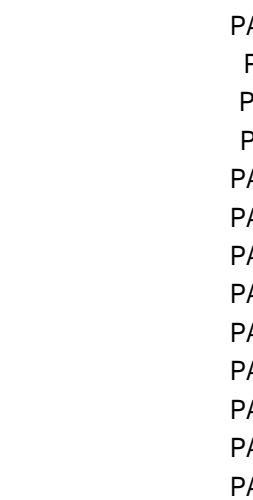
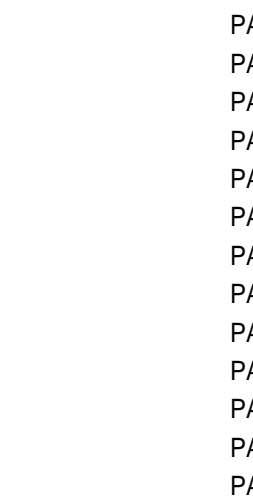
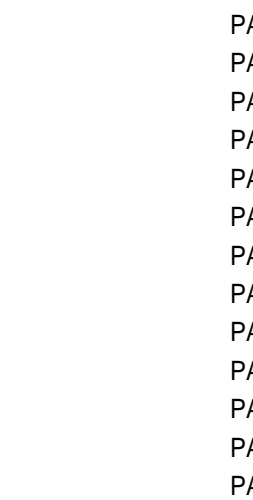
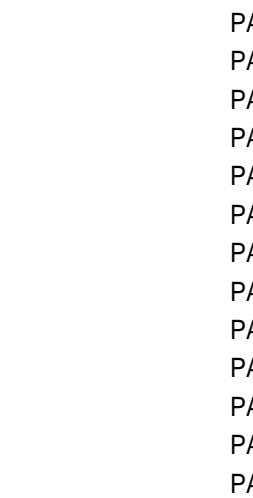
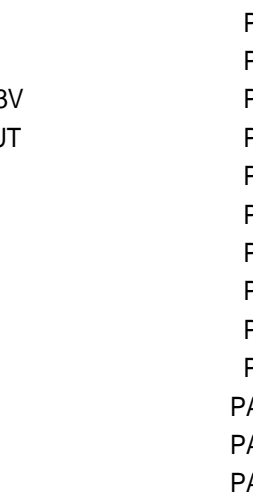
BOOT OPTION



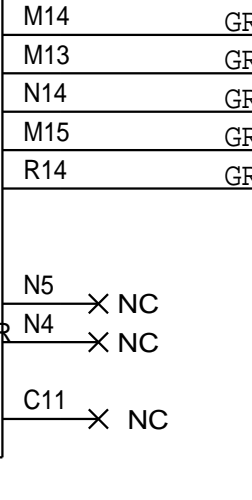
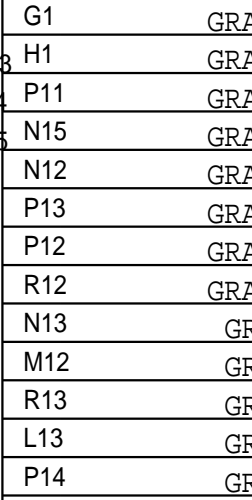
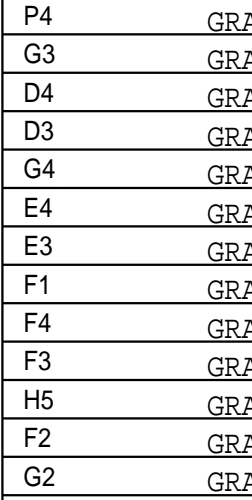
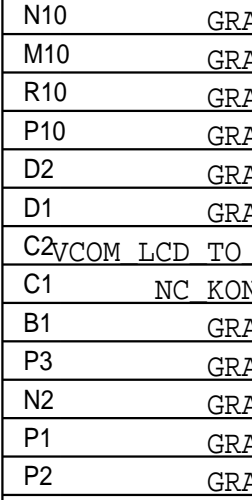
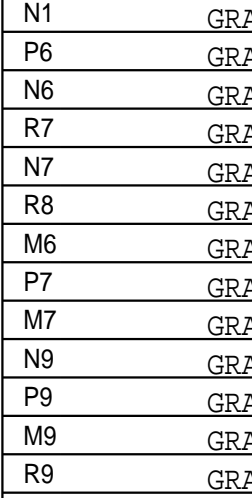
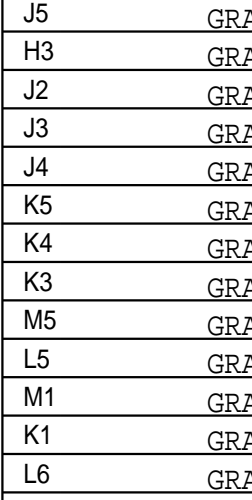
REMOVED 1.2V EXT BUCK, USING LDO14



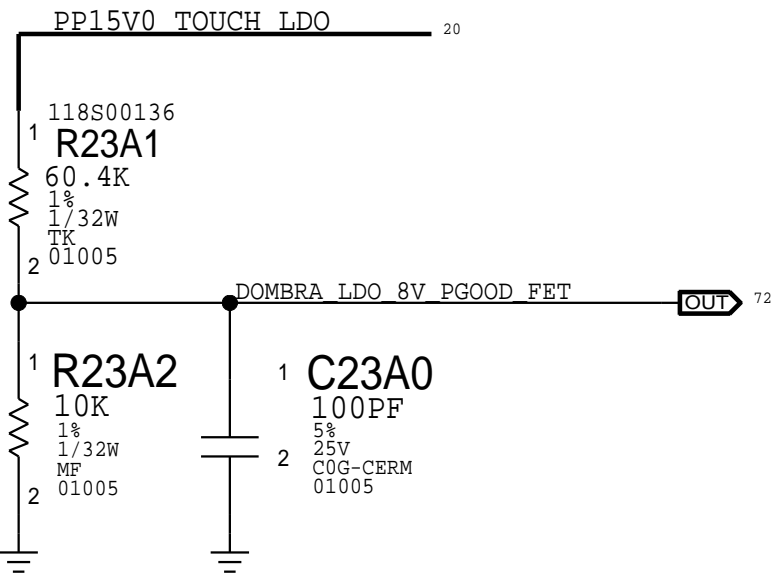
U2301
BCM15900B0K
BGA
SYM 1 OF 2



U2301
BCM15900B0K
BGA
SYM 2 OF 2



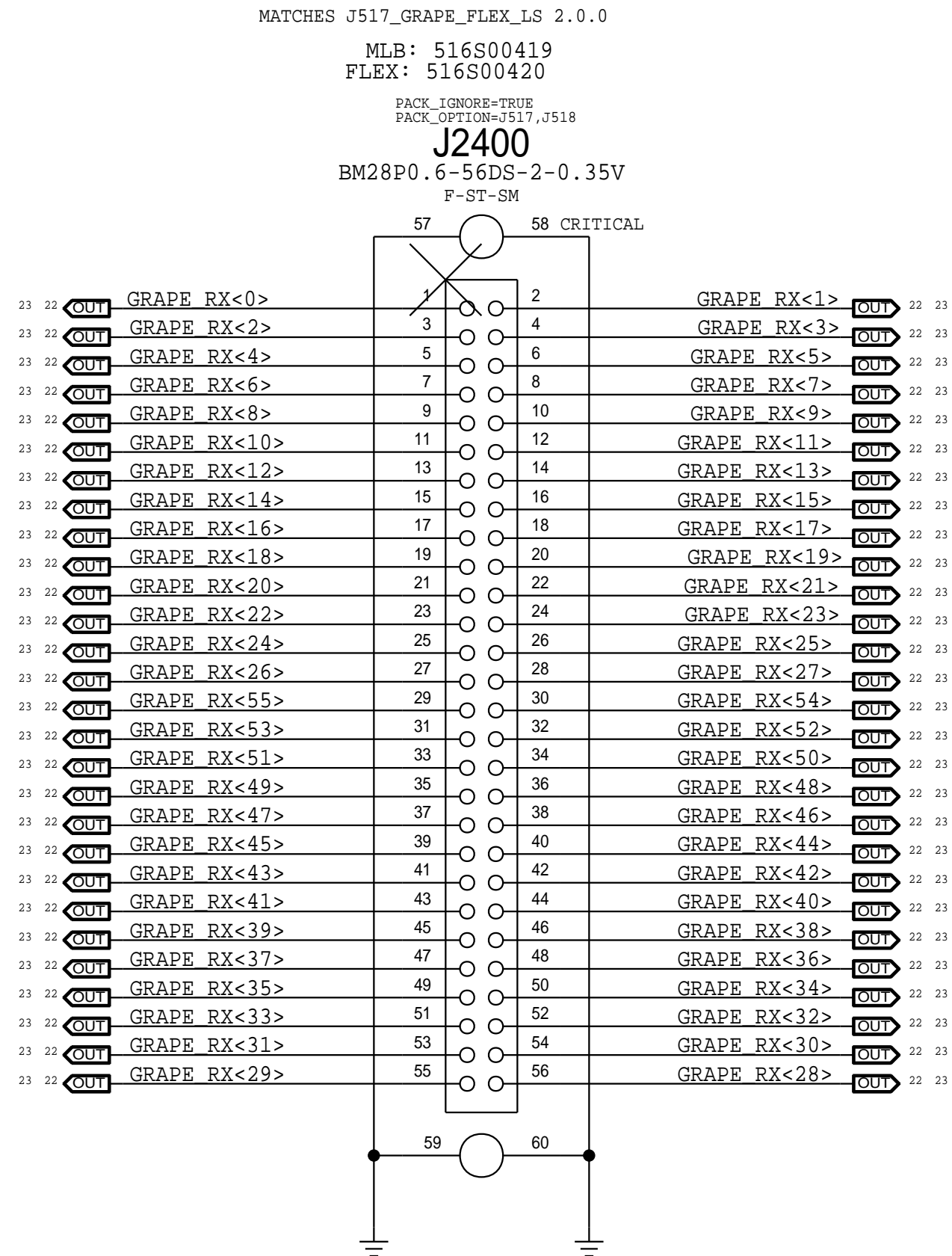
PGGOD SIGNAL GOES TO PMU ADC INPUT



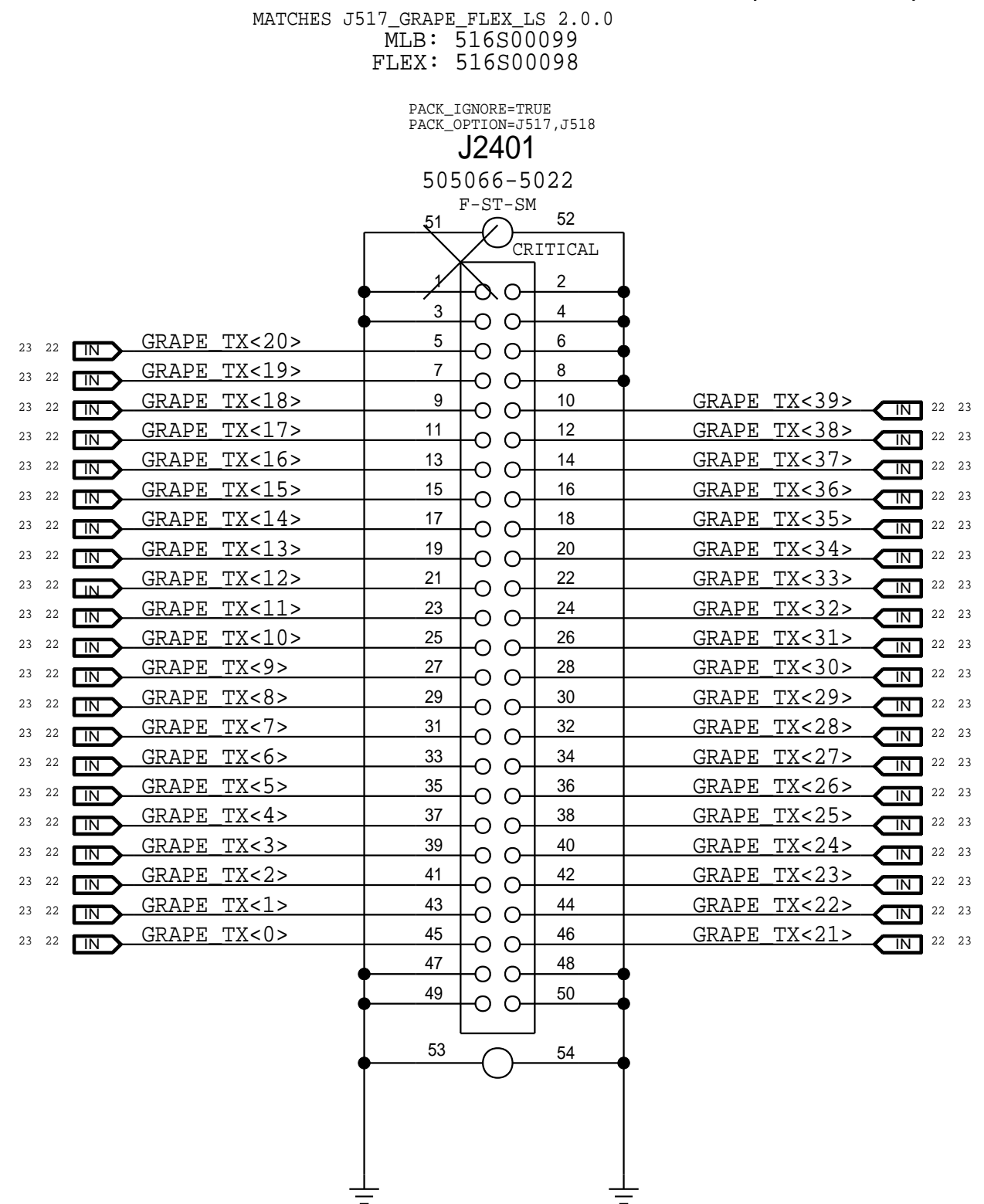
TOUCH: KONA SLAVE

REMOVED 1.2V EXT BUCK, USING LDO14

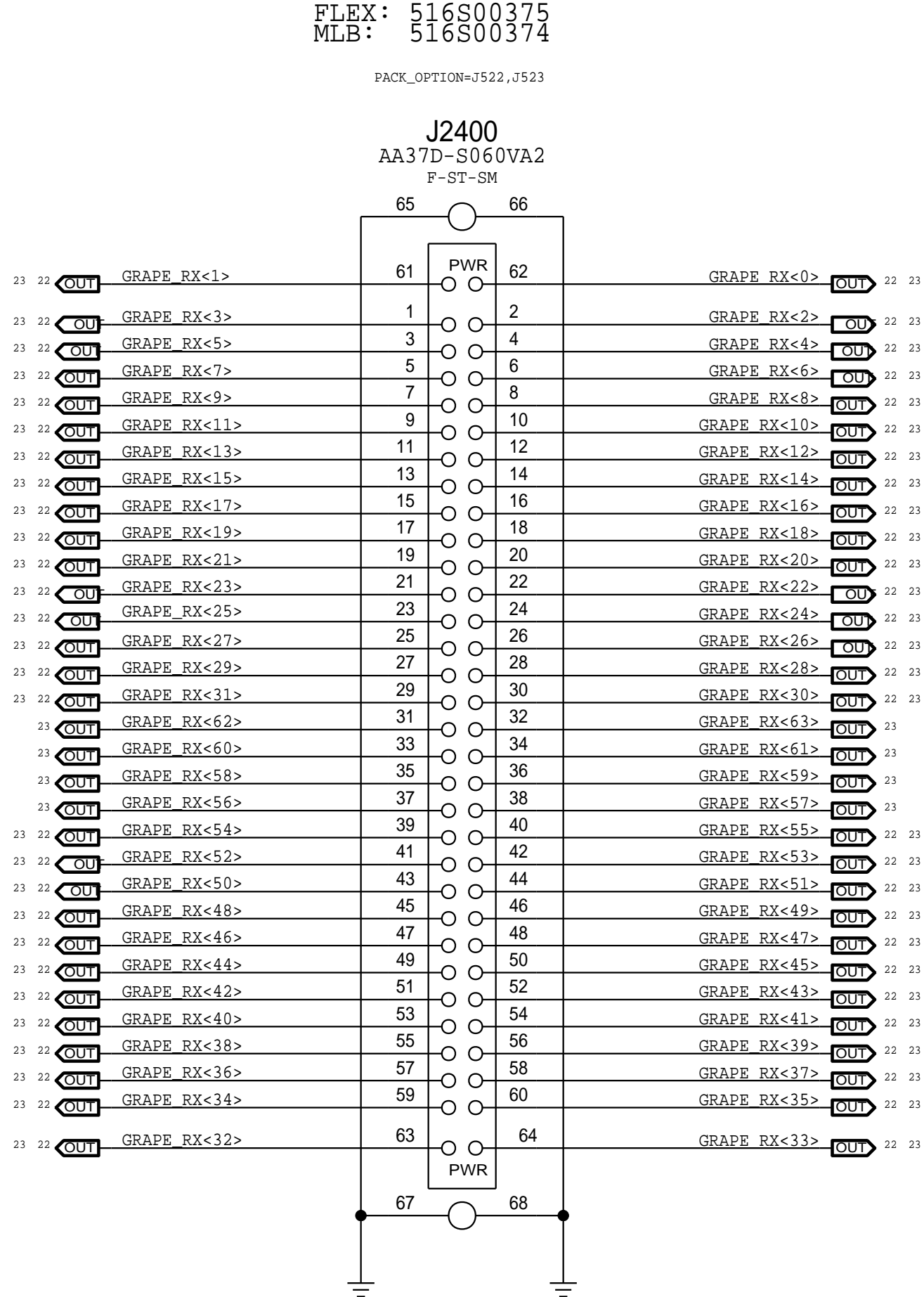
J517 TOUCH FLEX CONNECTOR (SENSE)



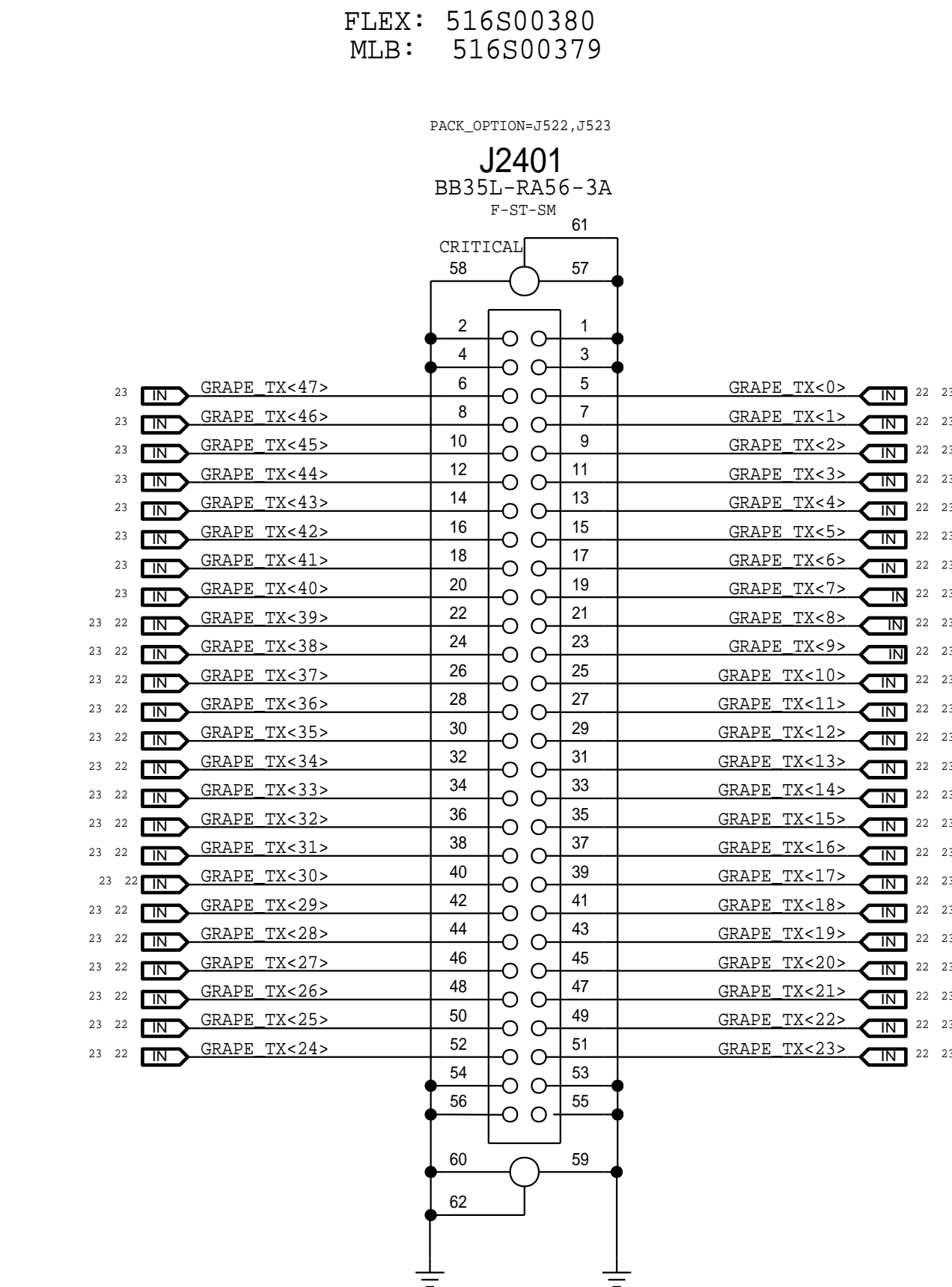
J517 TOUCH FLEX CONNECTOR (DRIVE)



J522 TOUCH FLEX CONNECTOR (SENSE)



J522 TOUCH FLEX CONNECTOR (DRIVE)



D

C

D

C

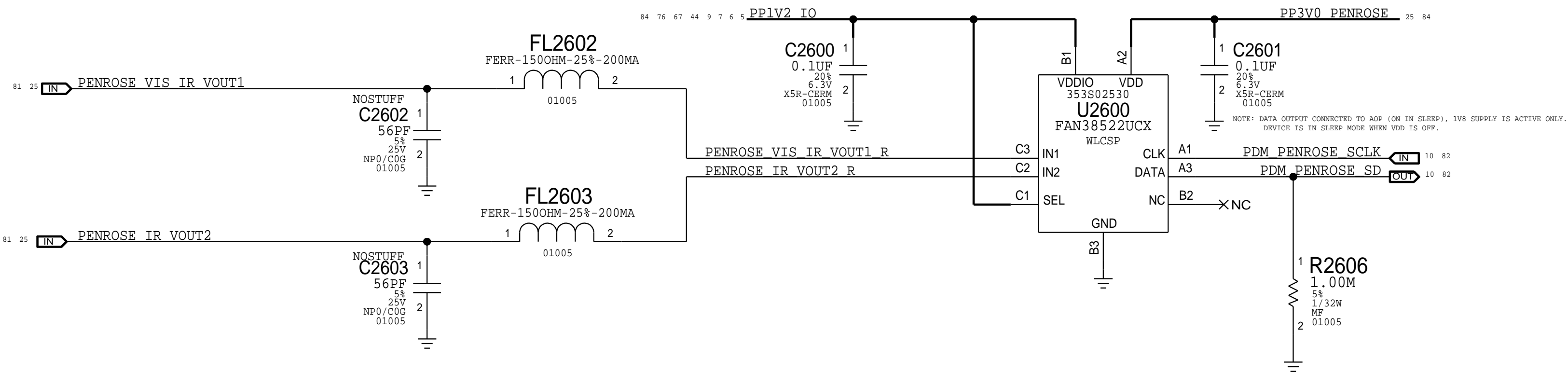
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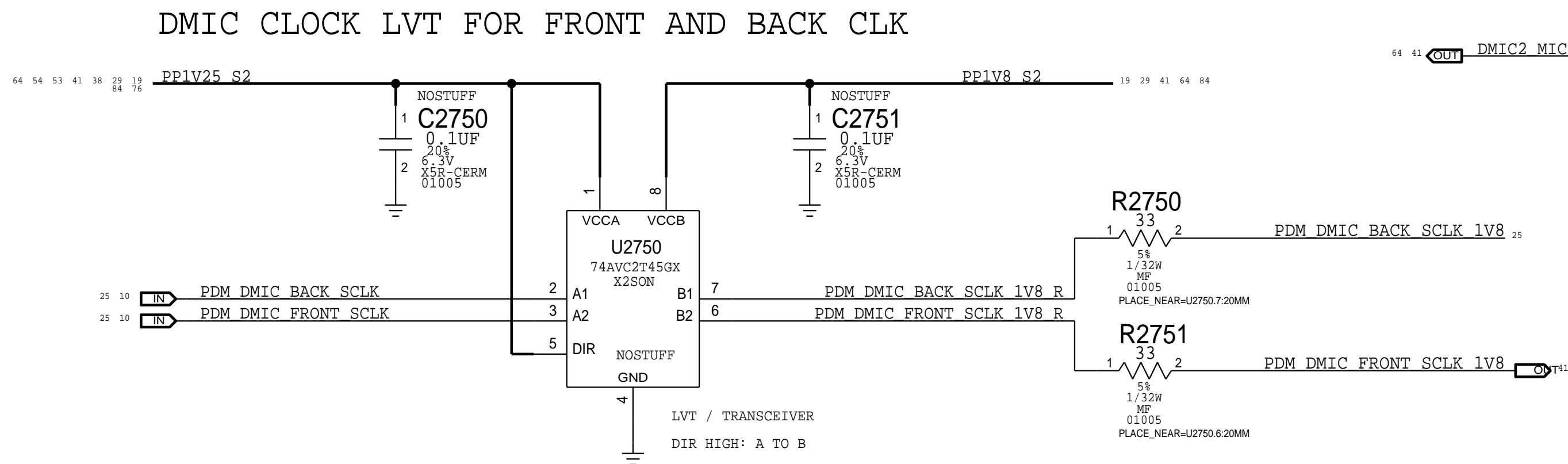
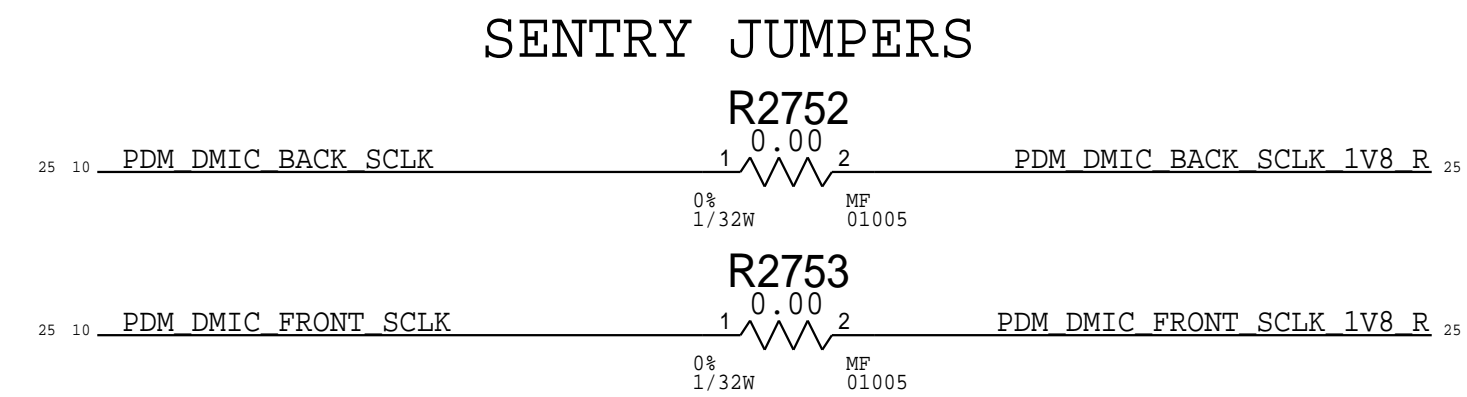
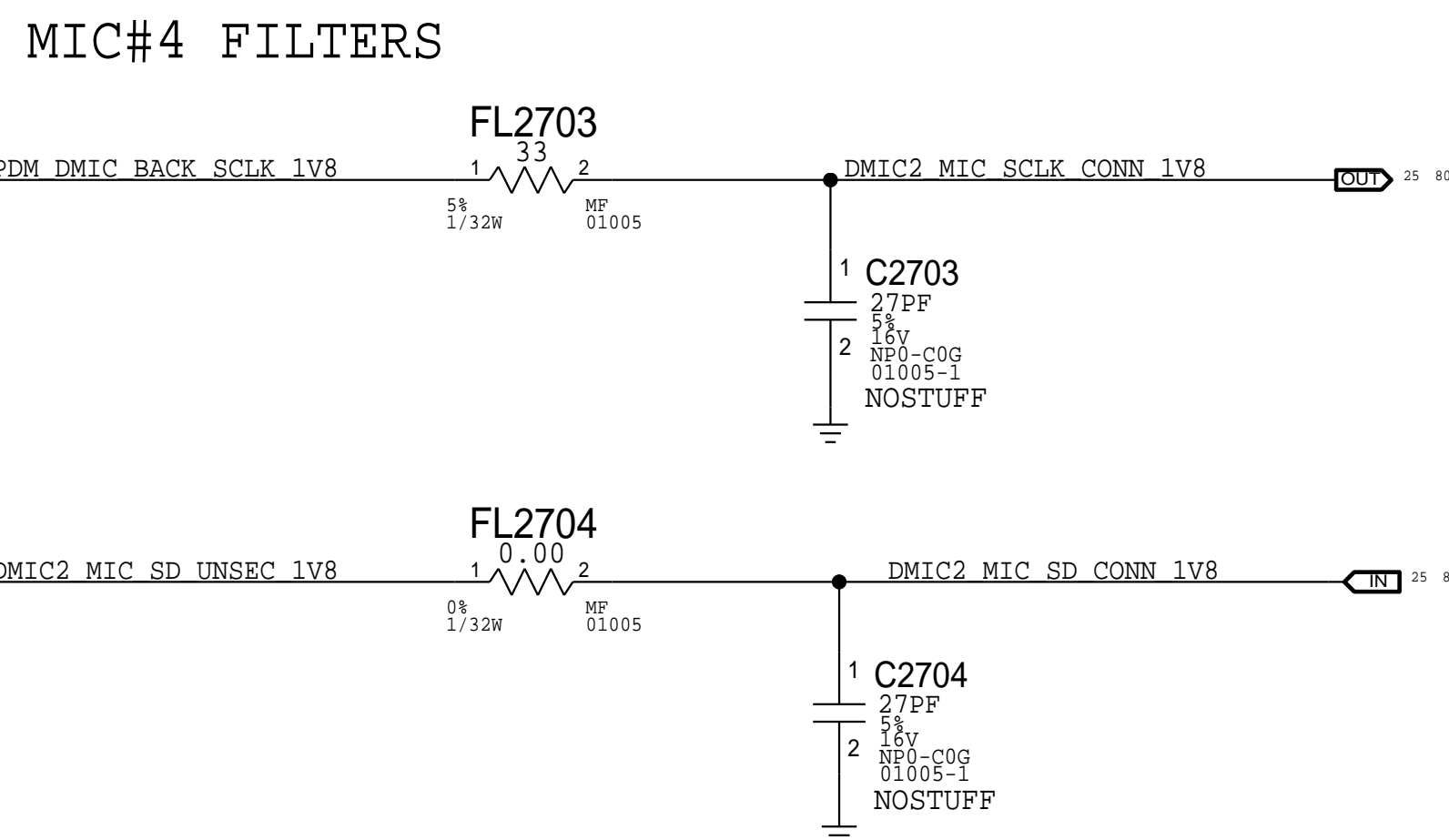
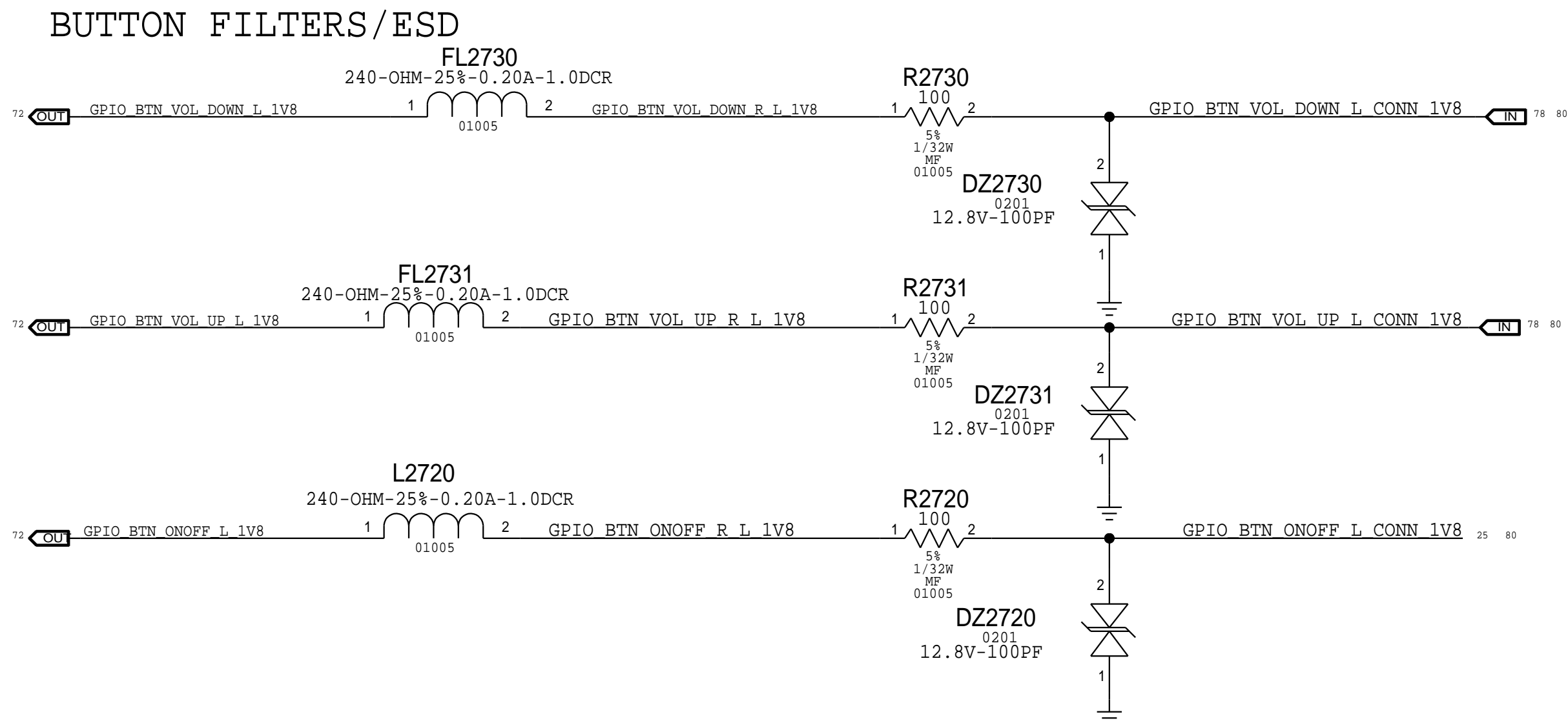
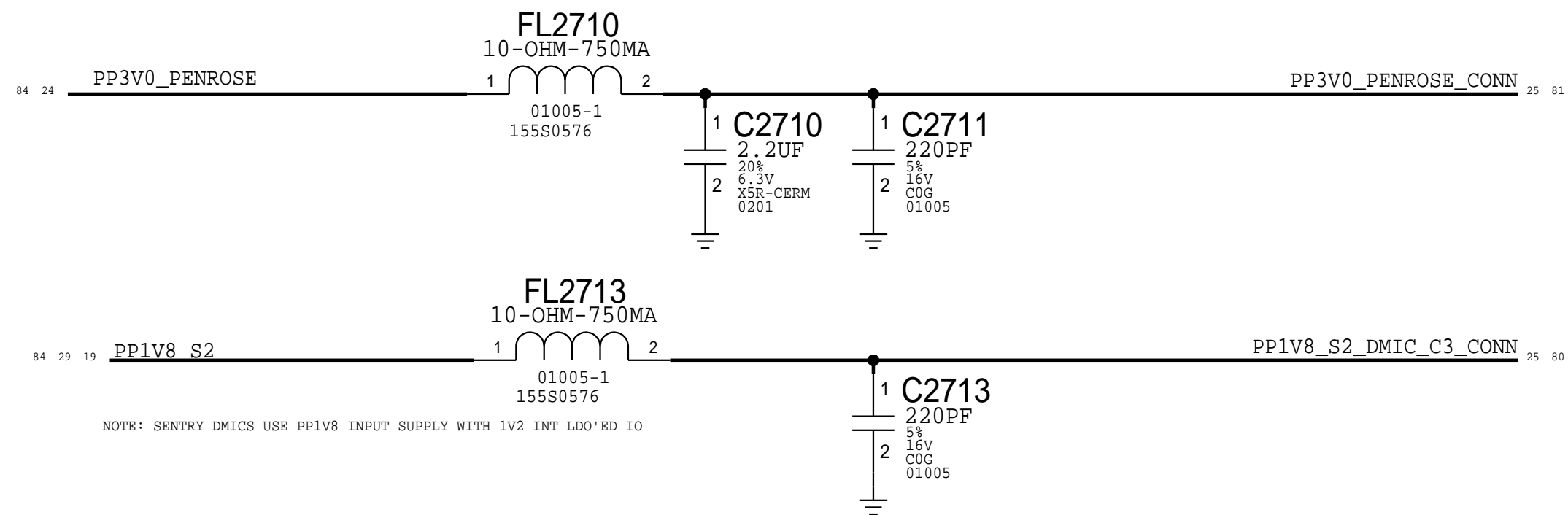
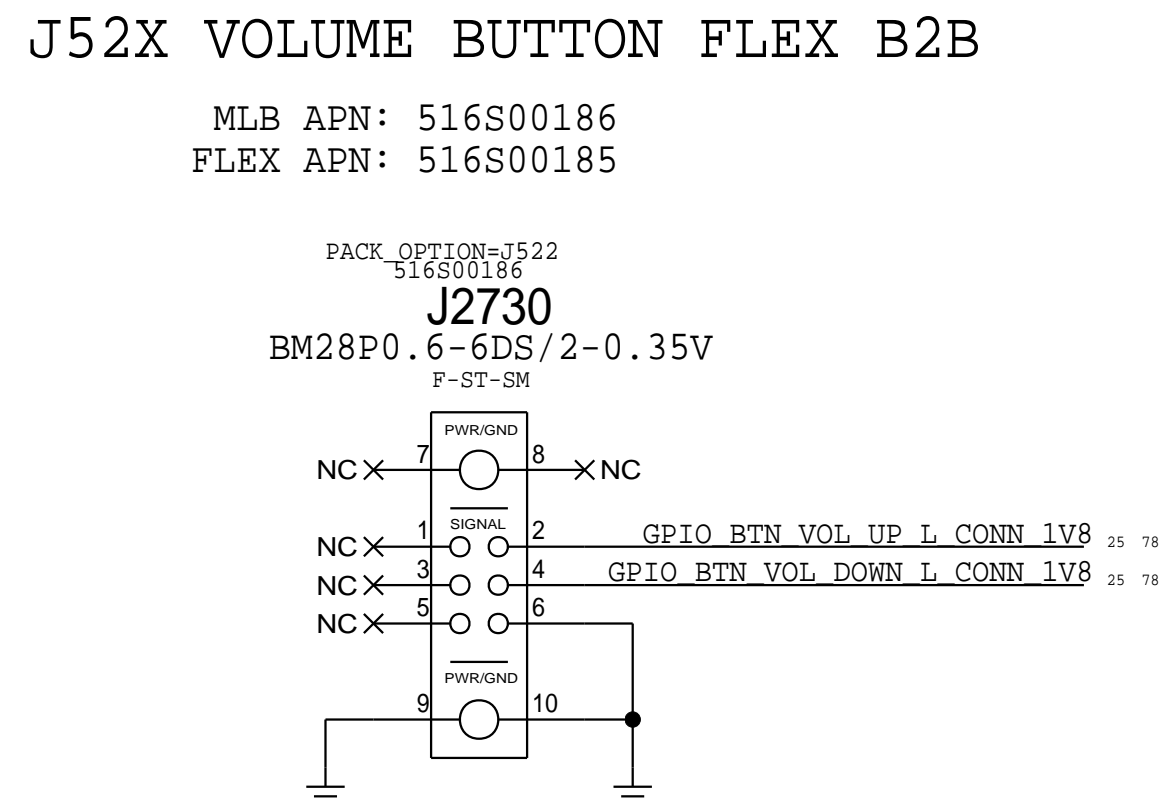
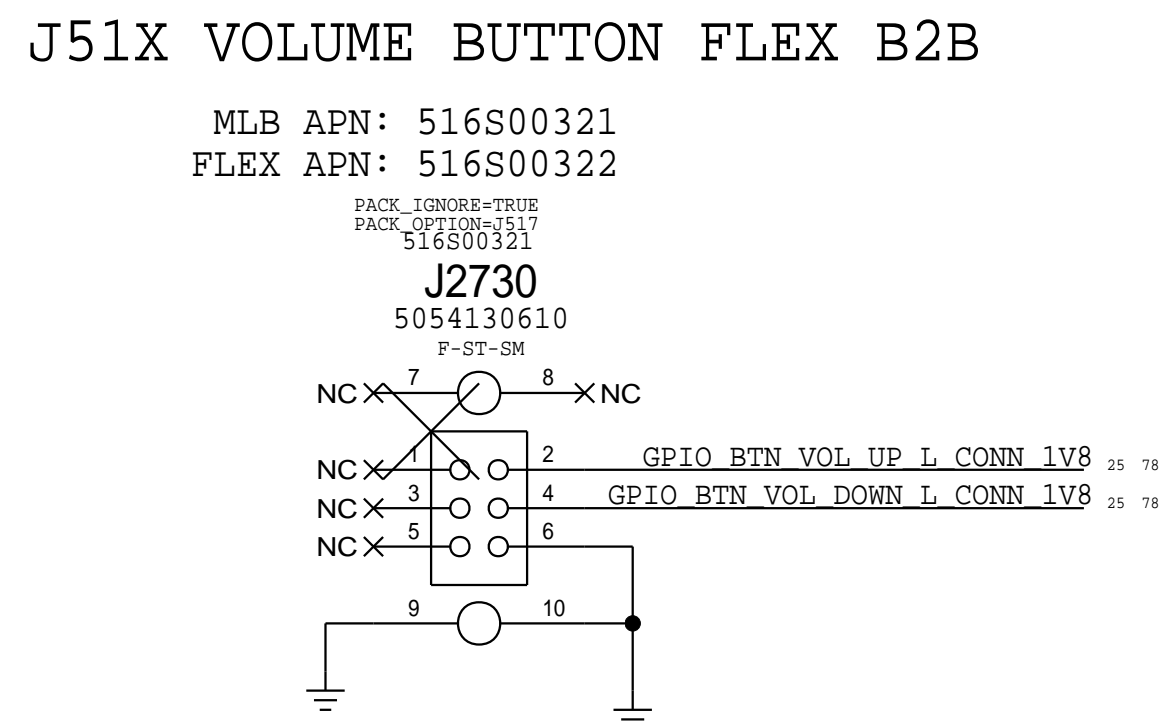
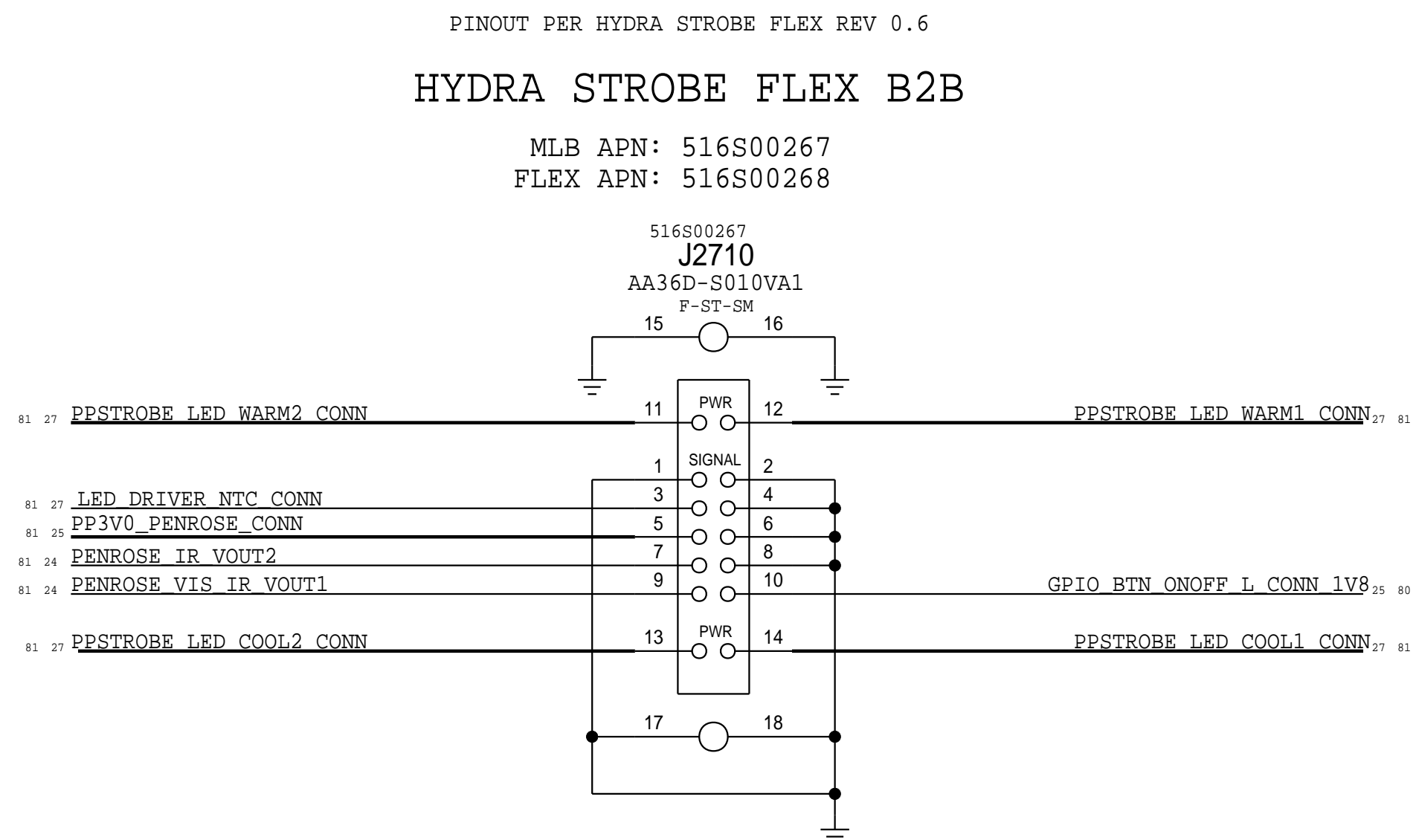
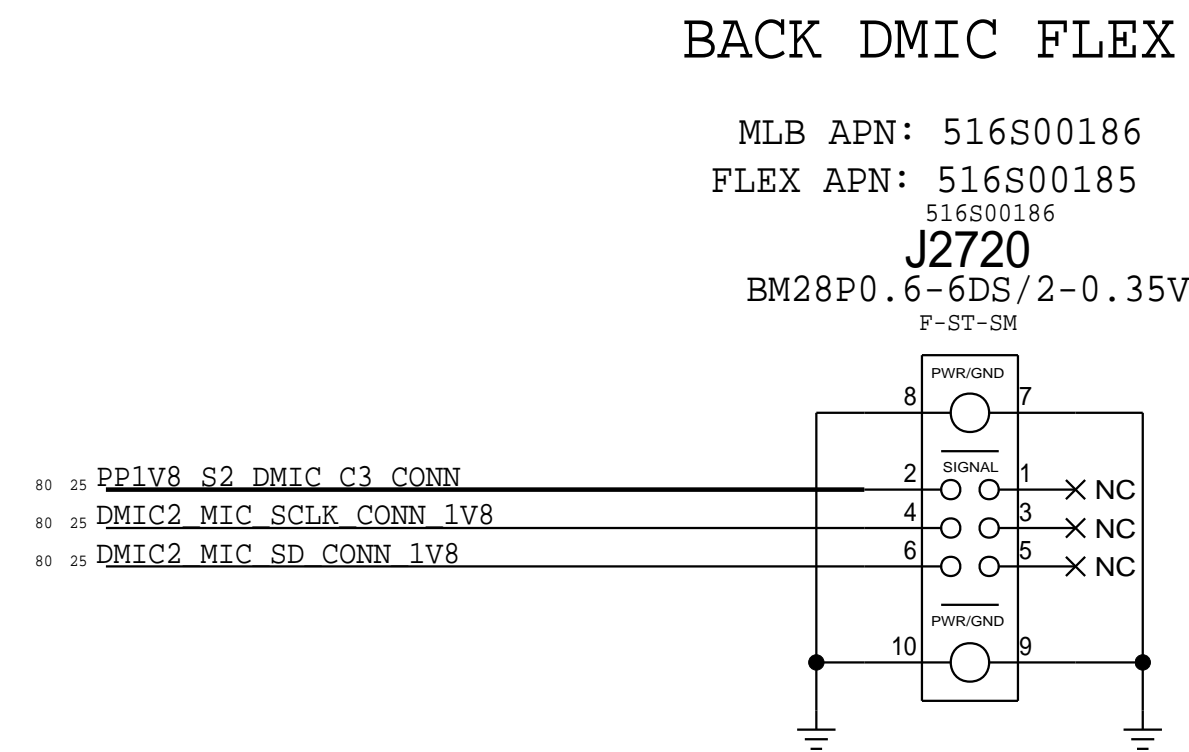
D

C

PENROSE ADC (FAN)



PAGE TITLE	
CAMERA: PENROSE ADC	



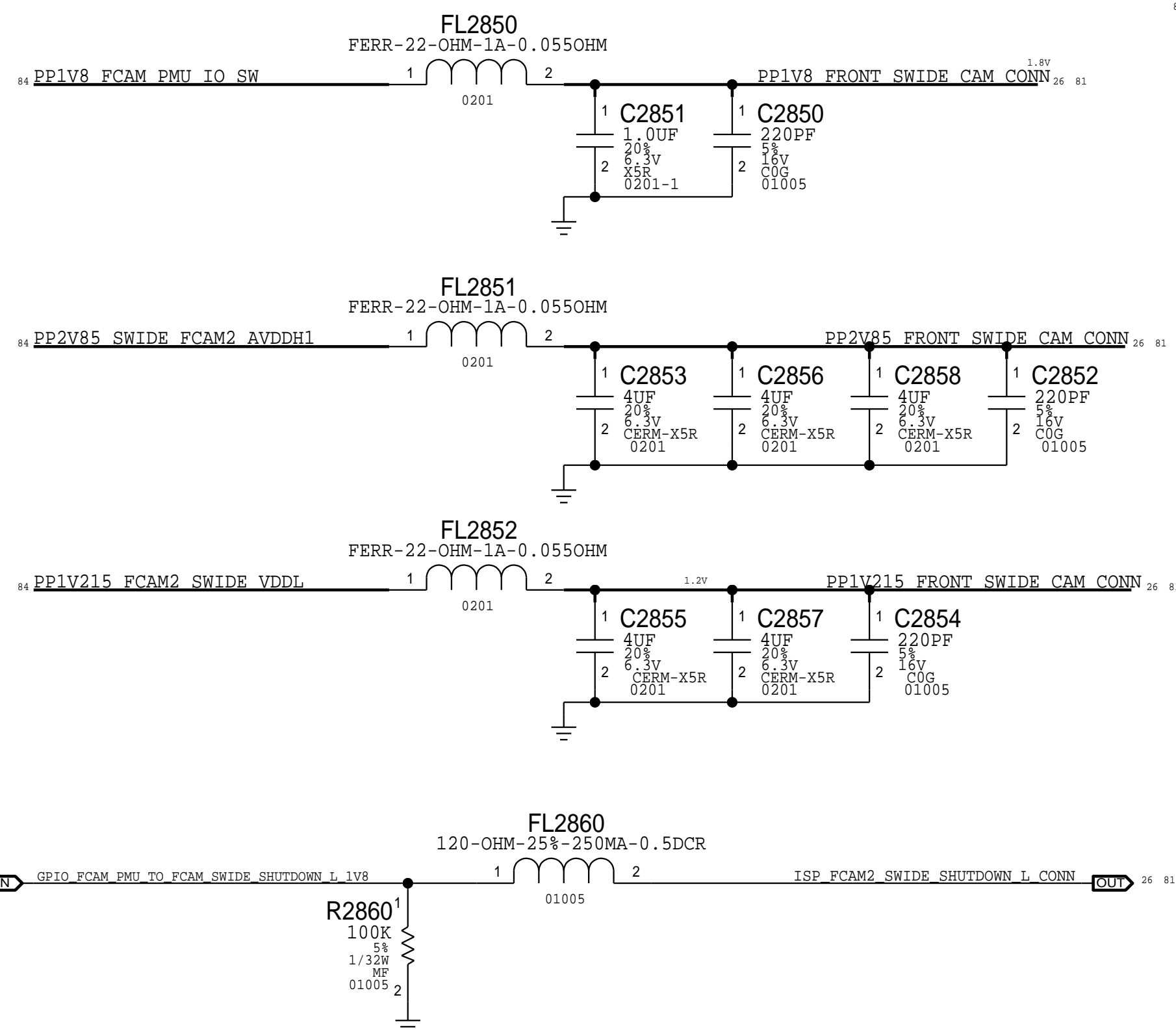
PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
155S00097	155S00018	FL2723, FL2725	FERR 80OHM 500MA 0.18DCR 0201	
155S0664	155S00018	FL2723, FL2725	FERR 80OHM 500MA 0.18DCR 0201	

PAGE TITLE	
CAMERA: B2B STROBE & MISC	

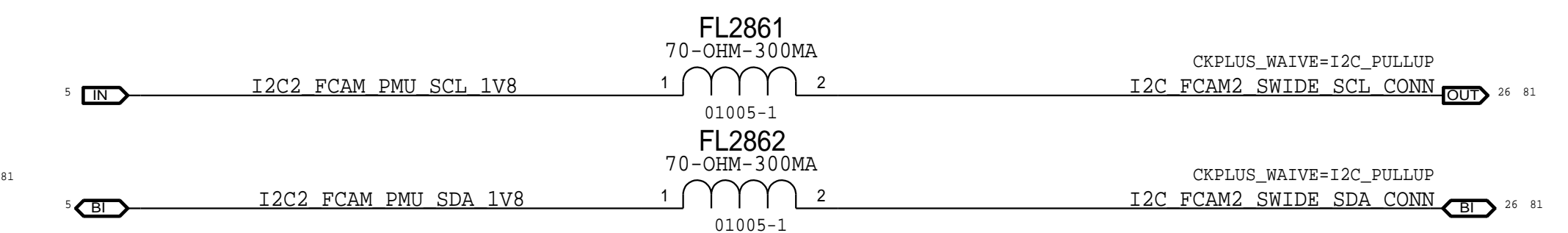
FRONT SWIDE CAMERA

LPDP AC COUPLING CAPS

POWER FILTERS

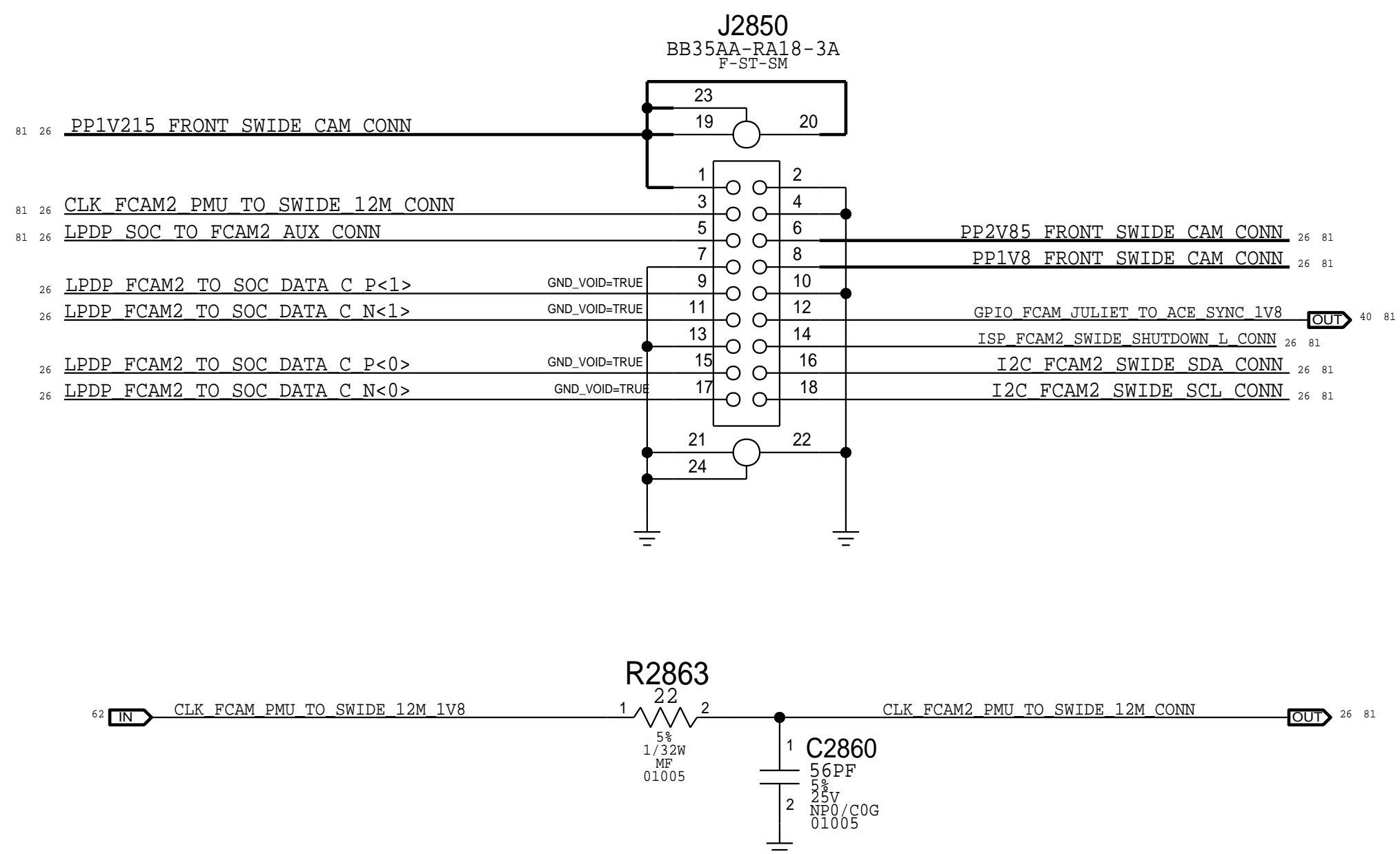


IO FILTERS



FRONT SWIDE CAM CONN

FLEX SIDE: 516S00396
MLB SIDE: 516S00395



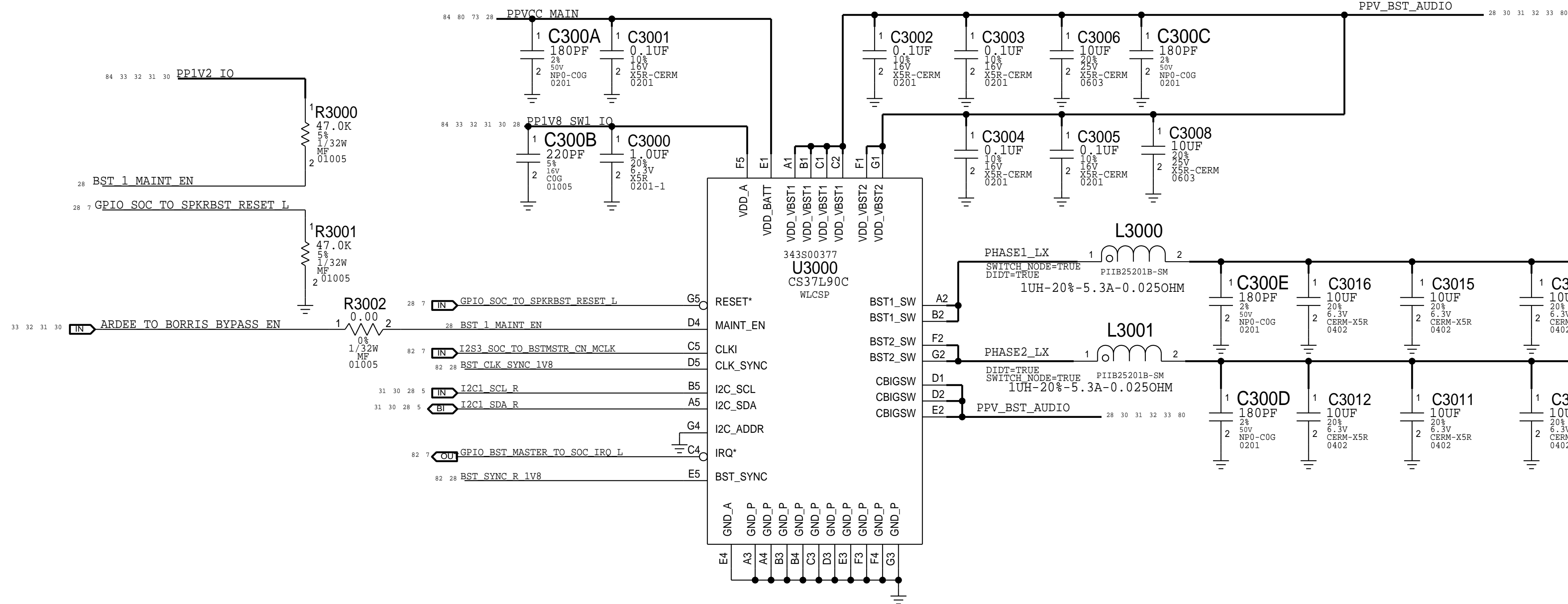
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PAGE TITLE

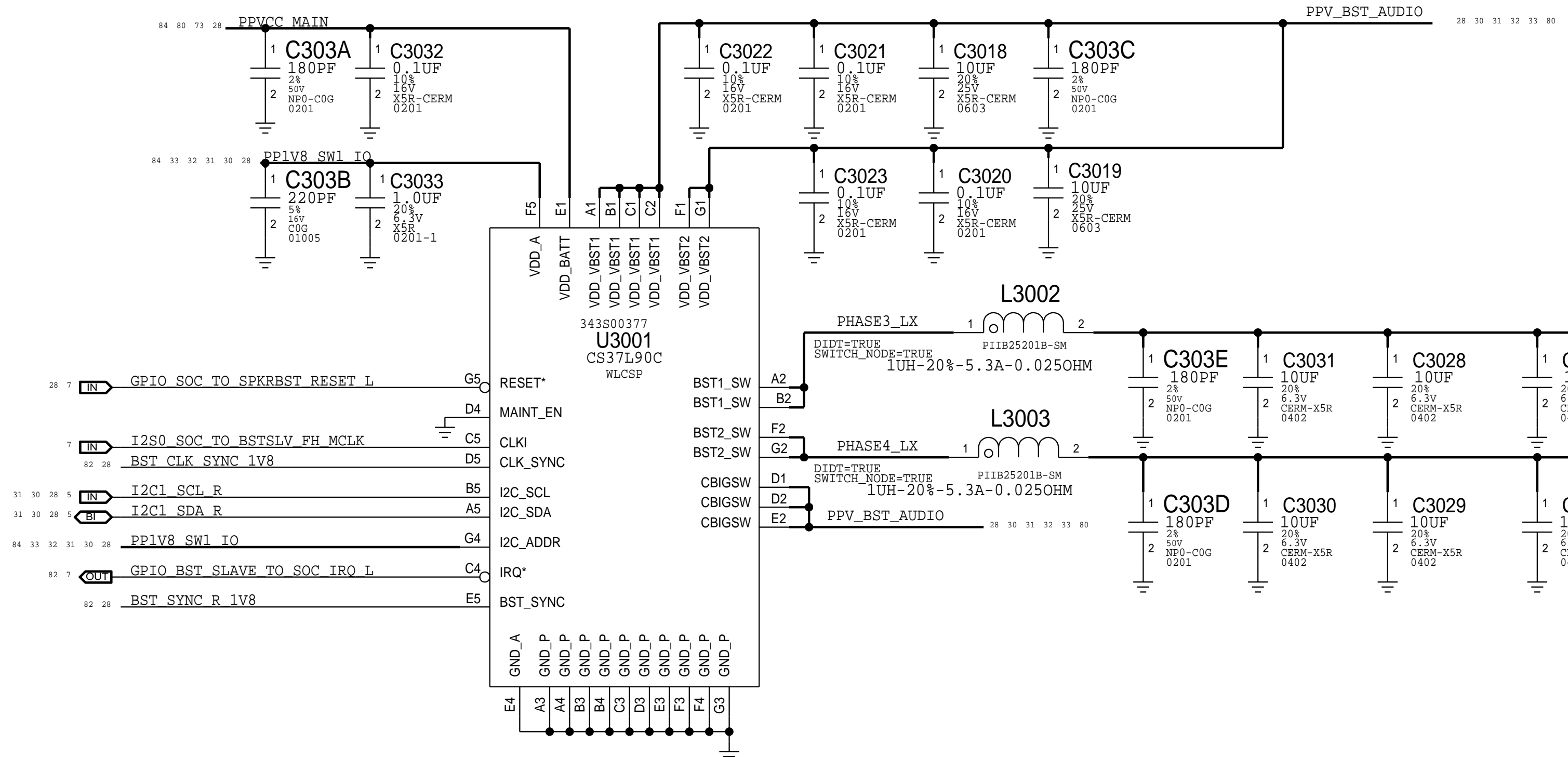
CAMERA: B2B FRONT

BORRIS BOOST

BOOST MASTER

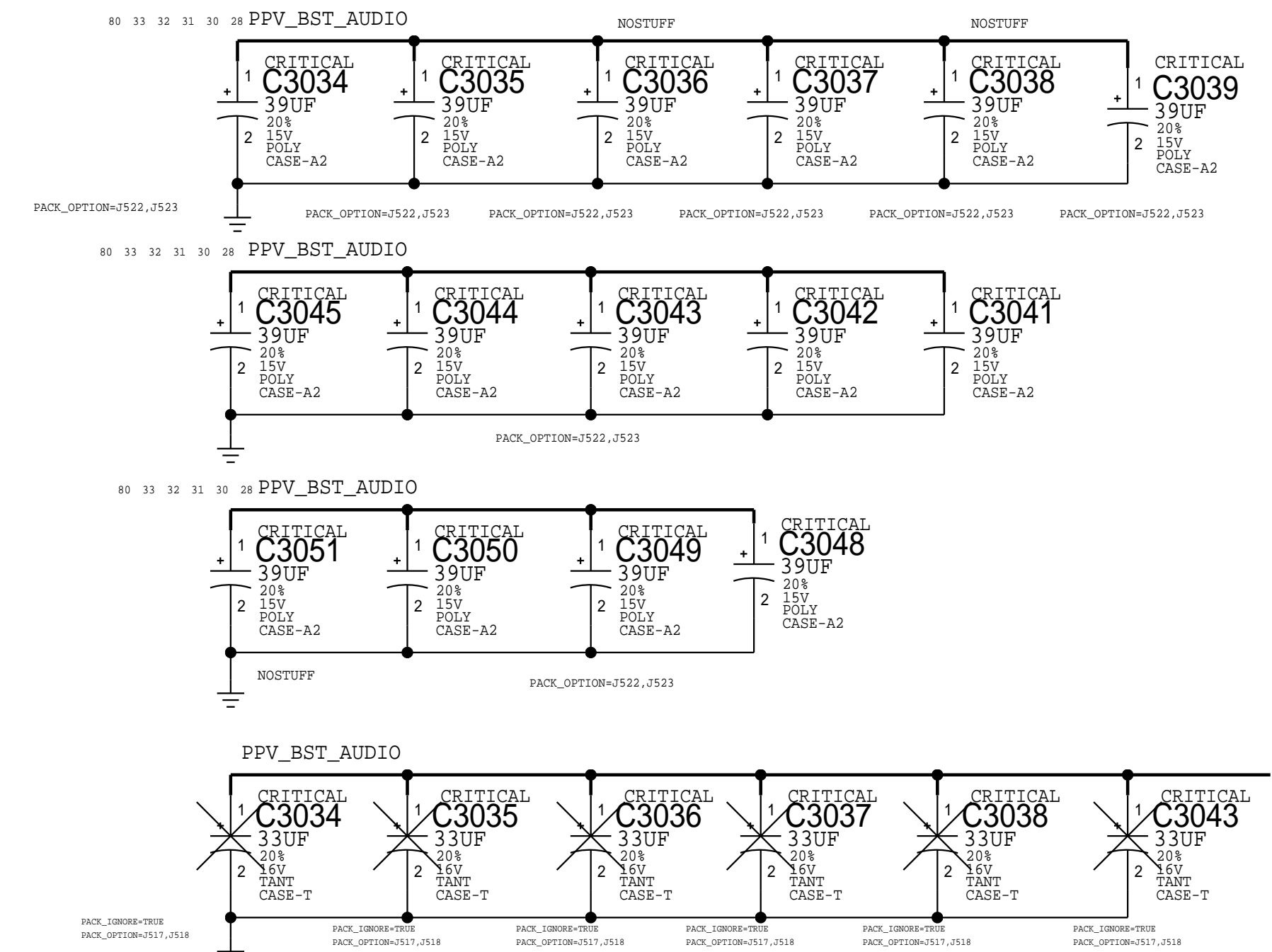


BOOST SLAVE



CS35L91 (ARDEE)				
ADDR	PIN	PULL	RESISTOR	I2C ADDRESS
	GND		0K	0X70 AMP1 FHRT
	VDD		0K	0X72 AMP2 FHRW
	GND		4.99K	0X74 AMP3 FHLT
	VDD		4.99K	0X76 AMP4 FHLW
	GND		20K	0X78 AMP5 CNRT
	VDD		20K	0X7A AMP6 CNRW
	GND		100K	0X7C AMP7 CNLT
	VDD		100K	0X7E AMP8 CNLW
CS37L90 (BORRIS)				
ADDR	PIN	PULL	RESISTOR	I2C ADDRESS
	GND		0K	0X60 MASTER
	DVDD		0K	0X62 SLAVE

CAP RESERVOIR



BOM_COST_GROUP=AUDIO	
PDF GENERATED BY: BOM_C 3.0	PDF GENERATED BY: BOM_C 3.0
PAGE TITLE	
AUDIO: BORRIS BOOST	

DMIC CONN AND FILTERS

PINOUT PER MIC FH FLEX REV 0.3

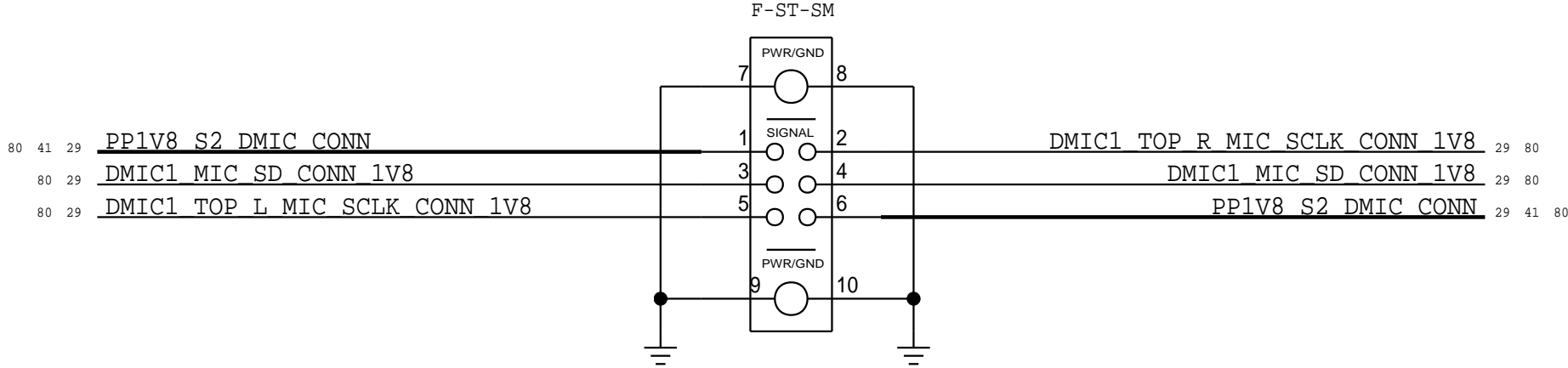
MIC FLEX B2B

MLB APN: 516S00186

FLEX APN: 516S00185

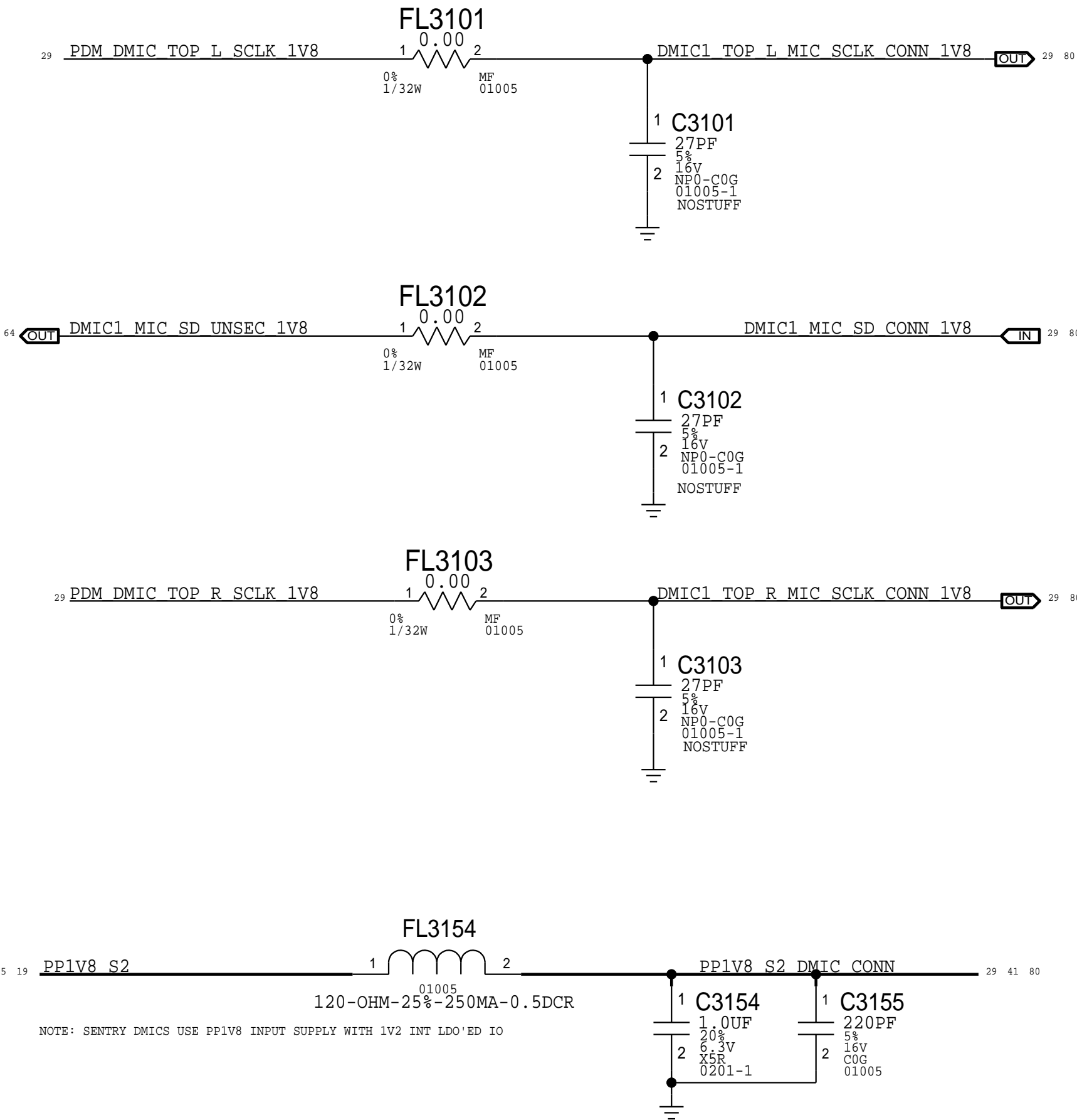
J3100

BM28P0.6-6DS/2-0.35V

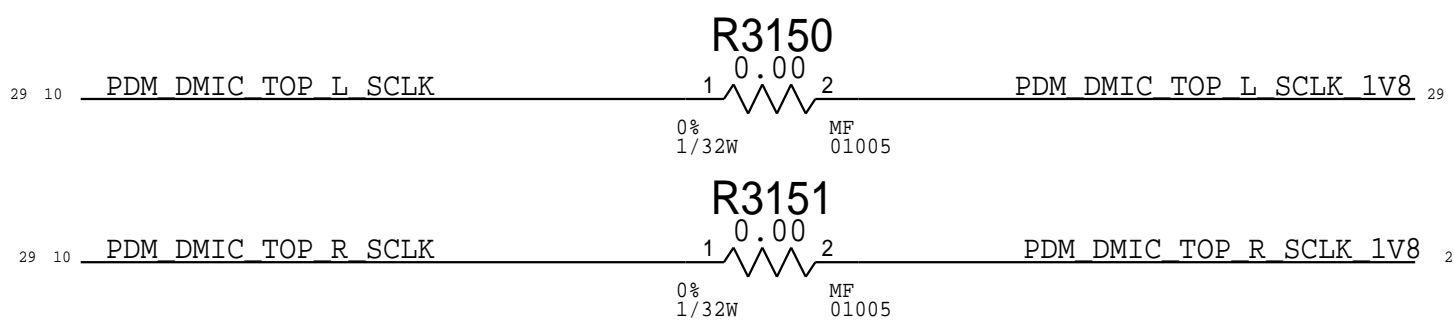


ROUTING	BUS	SELECT	LOCATION	DATA ASSERTS ON	DATA LATCHED ON
MIC#1	PDM0	HIGH	LEFT	CLK RISING EDGE	CLK FALLING EDGE
MIC#2	PDM0	LOW	RIGHT	CLK FALLING EDGE	CLK RISING EDGE
MIC#3	PDM1	HIGH	FRONT(ON TM)	CLK RISING EDGE	CLK FALLING EDGE
MIC#4	PDM1	LOW	REAR(C3)	CLK FALLING EDGE	CLK RISING EDGE
MIC#5	PDM2	HIGH	LANDSCAPE	CLK RISING EDGE	CLK FALLING EDGE

DMIC2 FILTERS



SENTRY JUMPERS

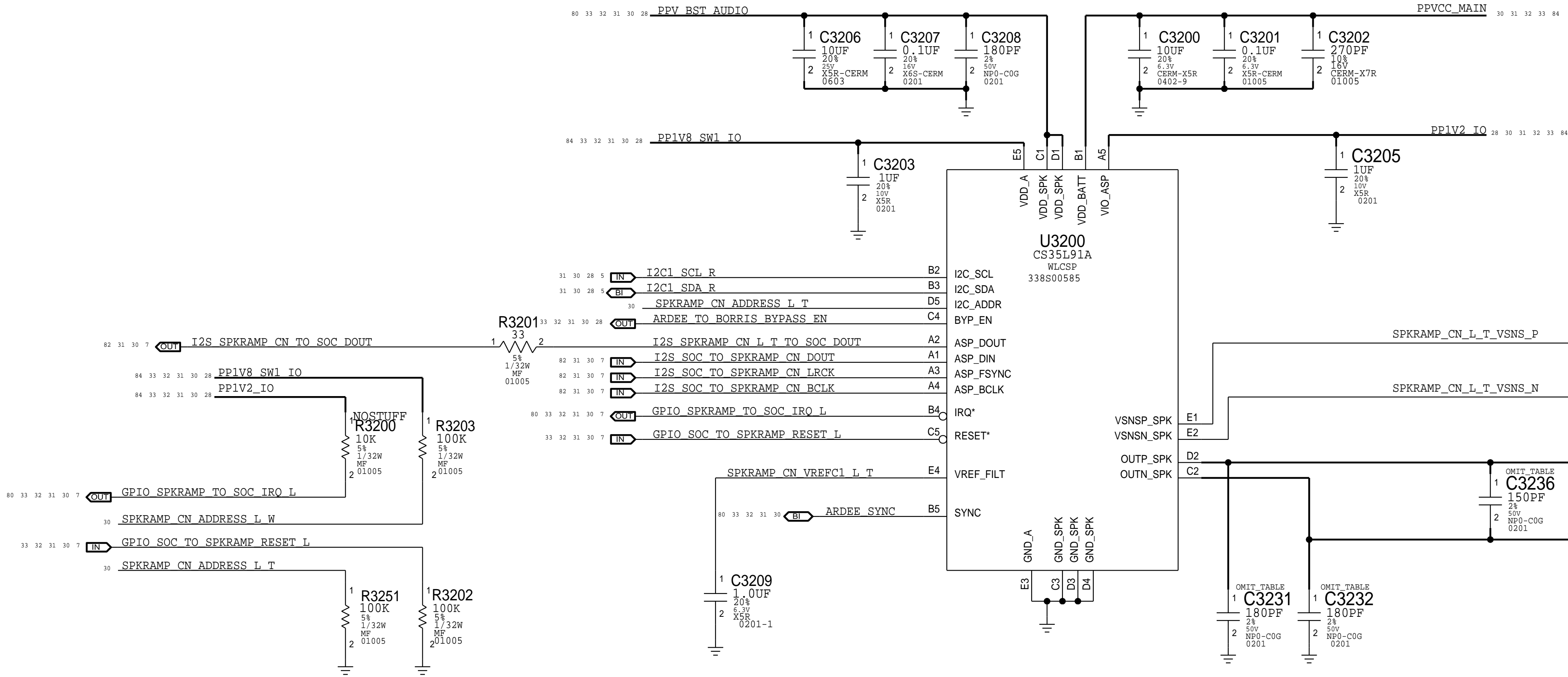


AUDIO: DMIC B2B & FILTERS

CN L TWEETER SPEAKER AMP

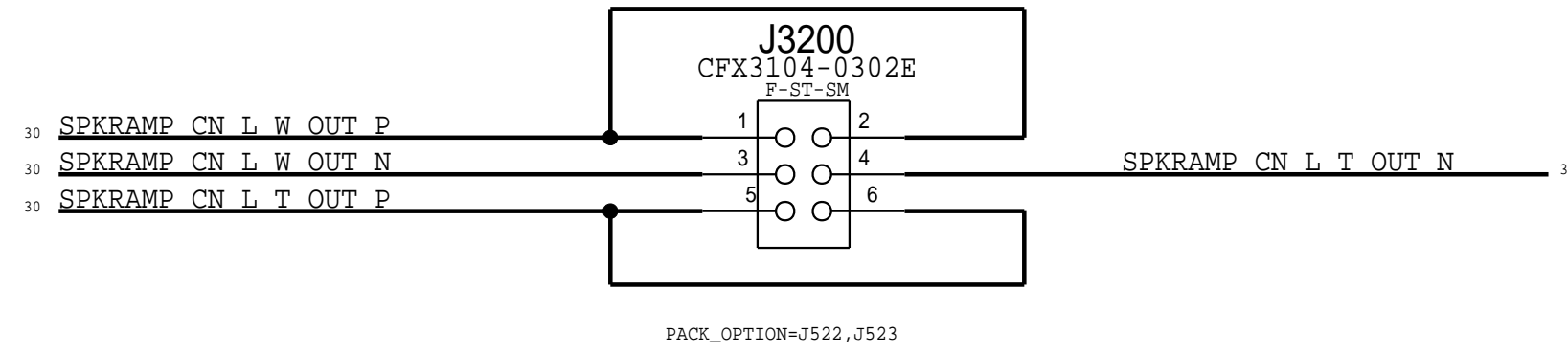
CN-L-T DESENSE CAP CONFIG

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					
131S0731	2	100PF 0201 DESENSE CAP	C3233,C3234	CRITICAL	J517&J518
131S00117	2	120PF 0201 DESENSE CAP	C3233,C3234	CRITICAL	J522&J523

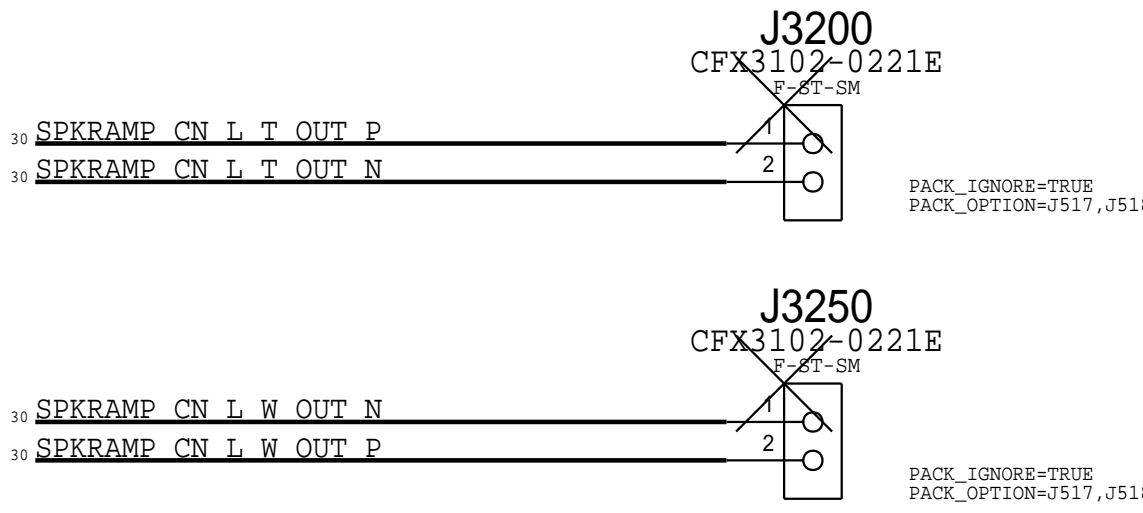


CN L WOOFER SPEAKER AMP

J522 CONNECTOR CONFIGURATION

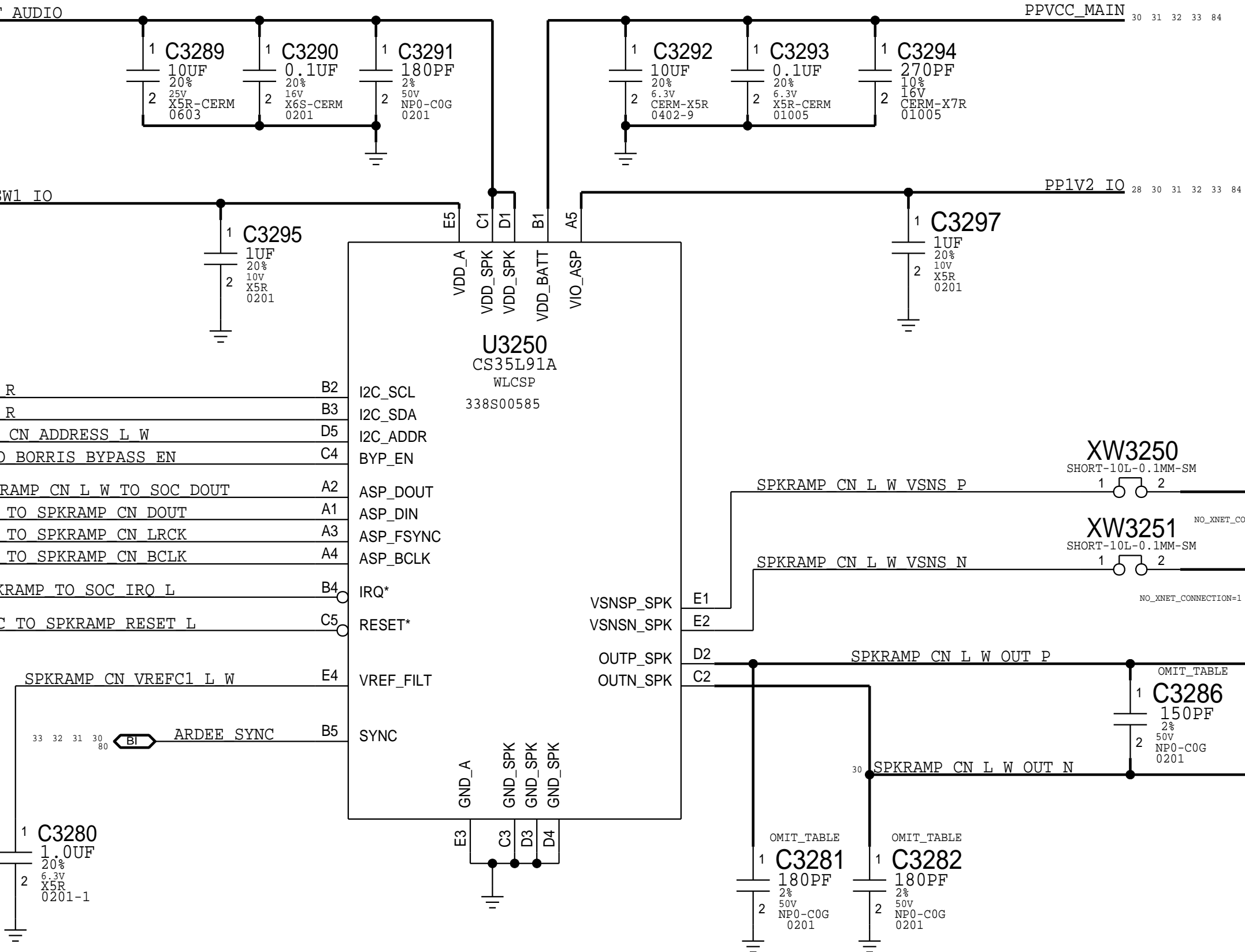


J517 CONNECTOR CONFIGURATION



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					
131S00118	2	180PF 0201 DESENSE CAP	C3283,C3284	CRITICAL	J517&J518
C3283 & C3284 NOSTUFF FOR J522&J523					



AUDIO: SPEAKER AMPS (CNL)

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

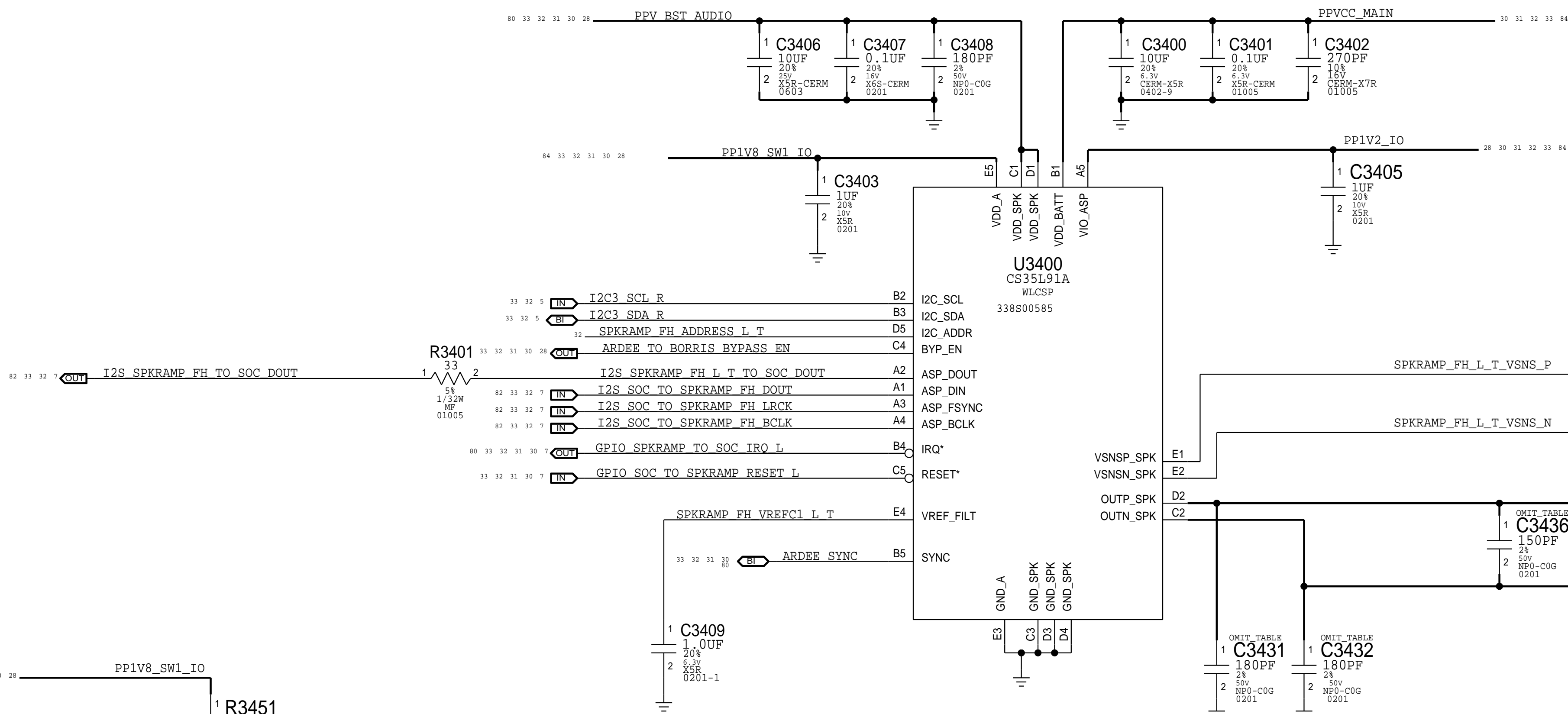
C3431 & C3432 NOSTUFF FOR J517&J518

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

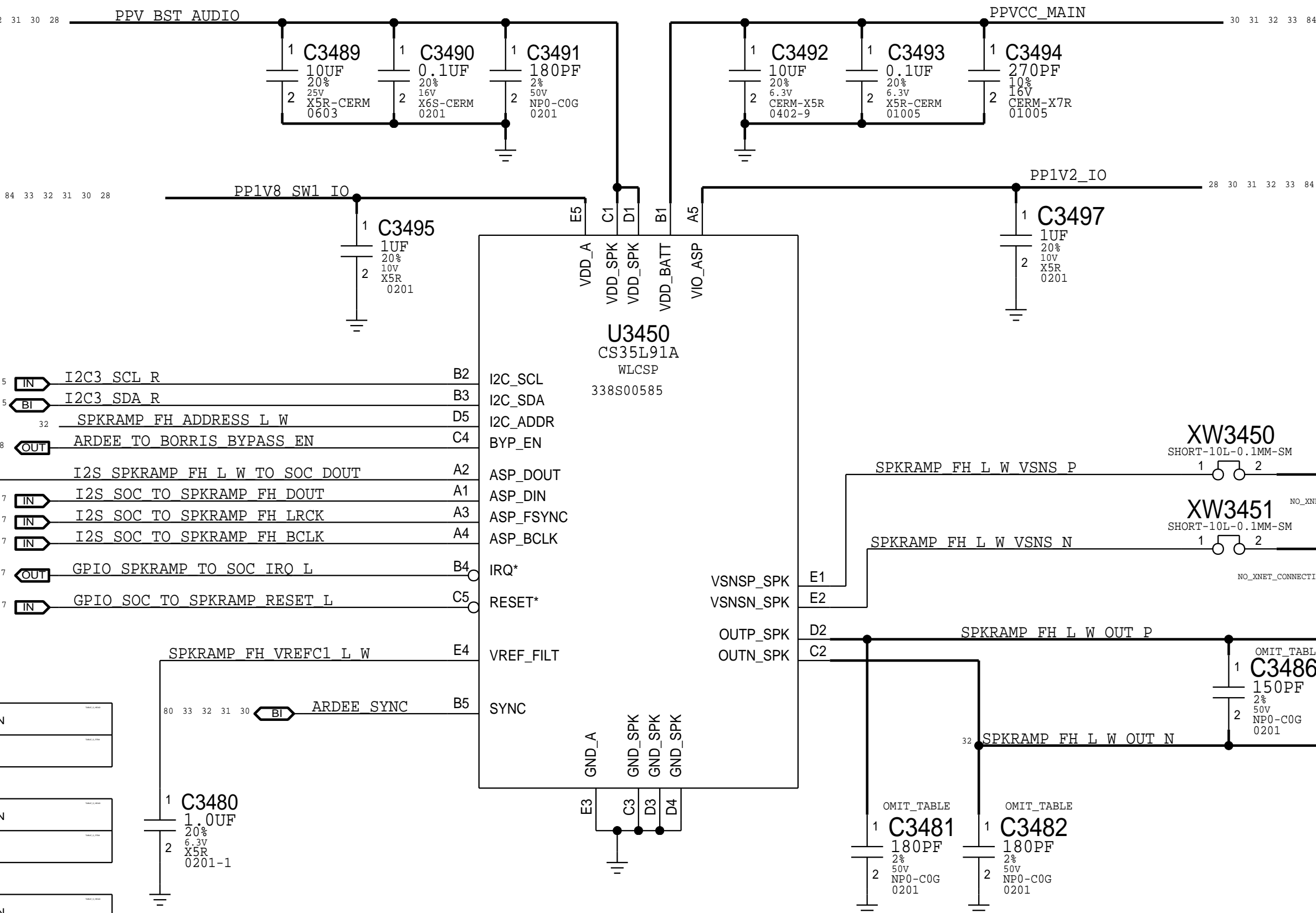
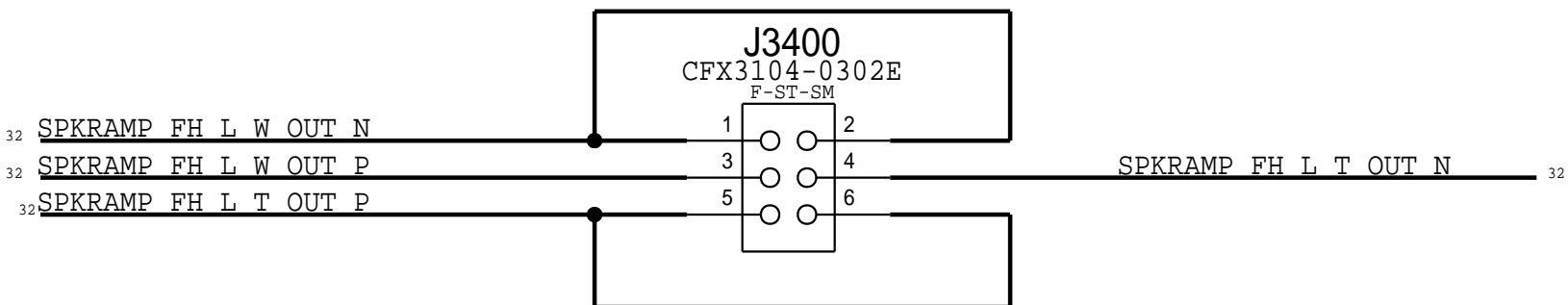
C3436 NOSTUFF FOR J522&J523

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&J523



FH L WOOFER SPEAKER AMP



FH-L-W DESENSE CAP CONFIG

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&J518

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 NOSTUFF FOR J522&J523

AUDIO: SPEAKER AMPS (FHL)

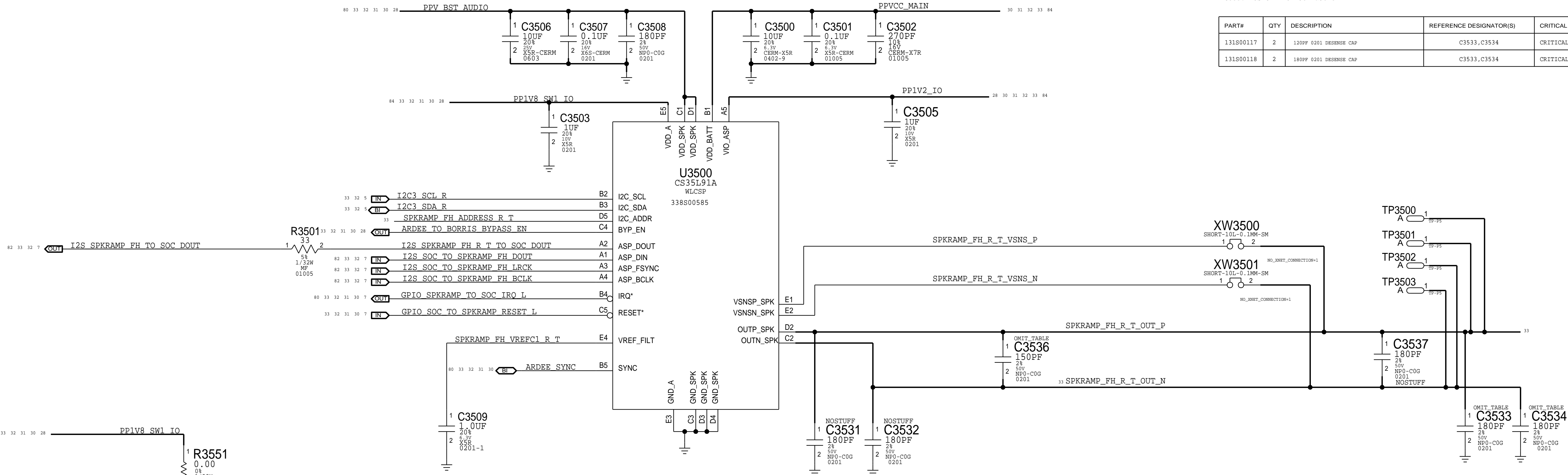
FH R TWEETER SPEAKER AMP

FH-R-T DESENSE CAP CONFIG

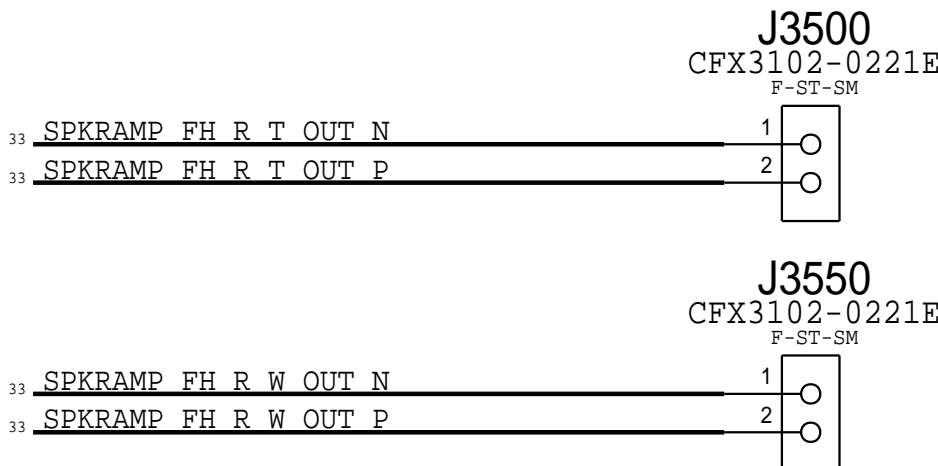
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3536	CRITICAL	J517&J518

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



FH-R-W DESENSE CAP CONFIG

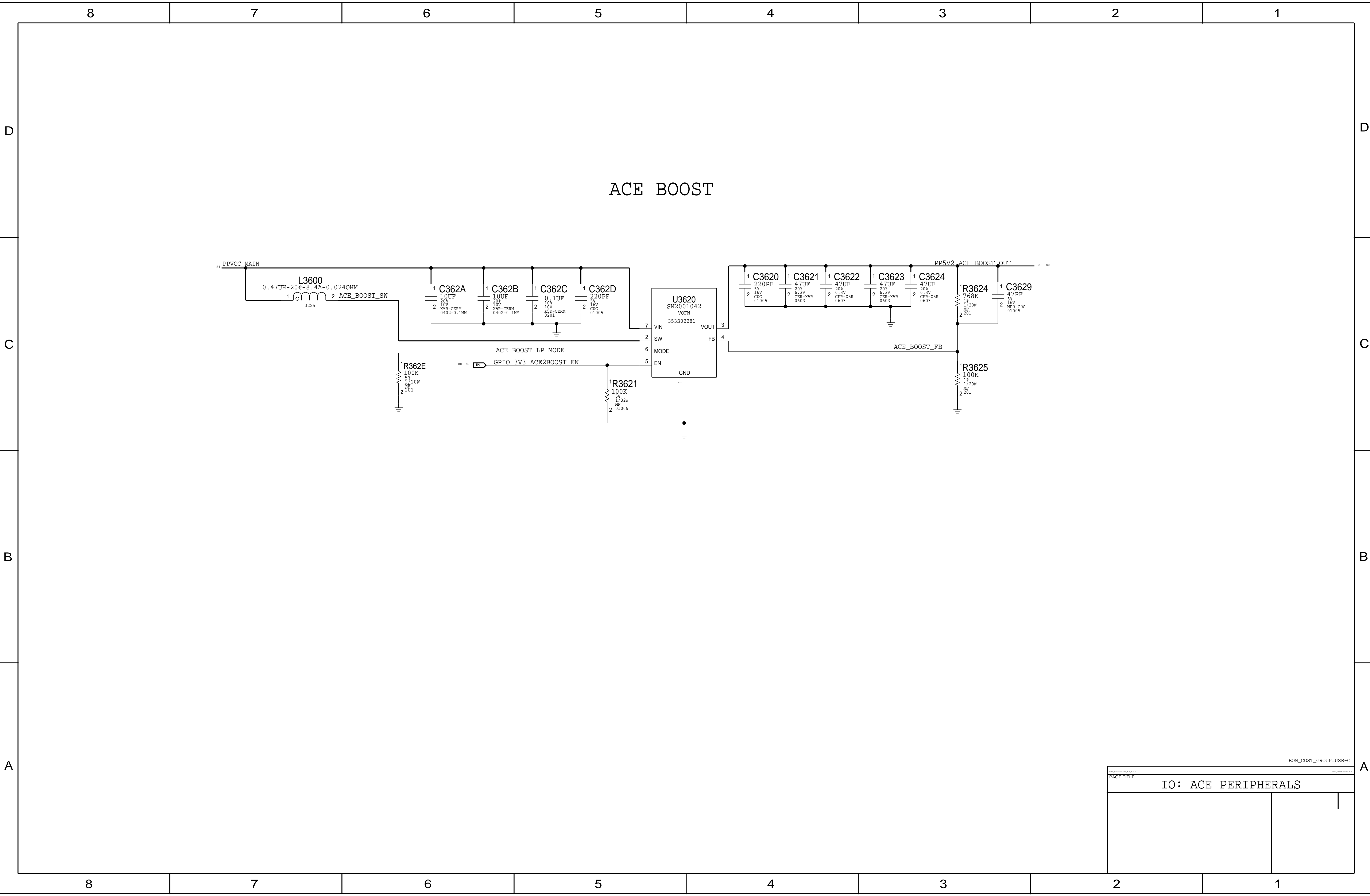
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S00019	1	150PF 0201 DESENSE CAP	C3586	CRITICAL	J517&J518

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

BOM_COST_GROUP=AUDIO

AUDIO: SPEAKER AMPS (FHR)



BOM_COST_GROUP=USB-C

PAGE TITLE	
IO: ACE PERIPHERALS	

PAGE TITLE	
IO: IOFLEX B2B & SIM B2B	

[illegible]

J3700
20875-028E-01
F-ST-SWM

Pin 1 PWR

Pin 2 ACE_CC1_CONN

Pin 3 GND_V0ID+TRUE

Pin 4 GND_V0ID+TRUE

Pin 5 GND_V0ID+TRUE

Pin 6 GND_V0ID+TRUE

Pin 7 GND_V0ID+TRUE

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Pin 28 GND_V0ID+TRUE

Pin 29 PWR

Pin 30 ACE_CC1_CONN

Pin 31 GND_V0ID+TRUE

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Pin 168 GND_V0ID+TRUE

Pin 169 GND_V0ID+TRUE

Pin 170 GND_V0ID+TRUE

Pin 171 GND

PPVBUS USB EMI

5V

C3780
0.022UF
10%
50V
X7R
0402

80 TRANS_DET_BASE

R3780
3.0K
1%
1/32W
WF
01005

Q3780
ZXTN3035CL
DFN10063

CRITICAL

The diagram shows four input lines on the left, each with a label and a pin number: ACE_SB1_CONN (pin 35), ACE_SB2_CONN (pin 36), ACE_CC1_CONN (pin 35), and ACE_CC2_CONN (pin 35). These lines are connected to a common ground line on the right, labeled GND_VOID-TRUE. Each input line has an ESD protection diode connected to ground. The diodes are labeled DZ3711, DZ3712, DZ3710, and DZ3713. Each diode is also labeled with its part number, 377S00060. The diodes are connected to ground through a common line labeled GND_VOID-TRUE.

PCB layout for USB EMI suppression. The layout shows two USB ports (TX1, TX2) with their respective CR, C, and N lines. The layout includes various components like capacitors (C37A7, C37A6, C37A8, C37A9), resistors (R37A5, R3761, R3760, R3763, R3762, R3791, R3790, R3793, R3792, R3796, R3797, R3799, R3798), and diodes (D3762, D3763, D3760, D3761, D3792, D3793, D3790, D3791). It also shows ground connections and signal traces for USB TX1, TX2, RX1, and RX2.

80 79 36 35

BI ACE_USB_BOT_CONN_P

80 79 36 35

BI ACE_USB_BOT_CONN_N

80 79 36 35

BI ACE_USB_TOP_CONN_P

80 79 36 35

BI ACE_USB_TOP_CONN_N

CRITICAL
GND, NOISE-FREE
D23714

2

5.5V-0.28PF
0201

APN 377S0184
0.28PF

1

CRITICAL
GND, NOISE-FREE
D23715

2

5.5V-0.28PF
0201

APN 377S0184
0.28PF

1

CRITICAL
GND, NOISE-FREE
D23716

2

5.5V-0.28PF
0201

CRITICAL
GND, NOISE-FREE
D23717

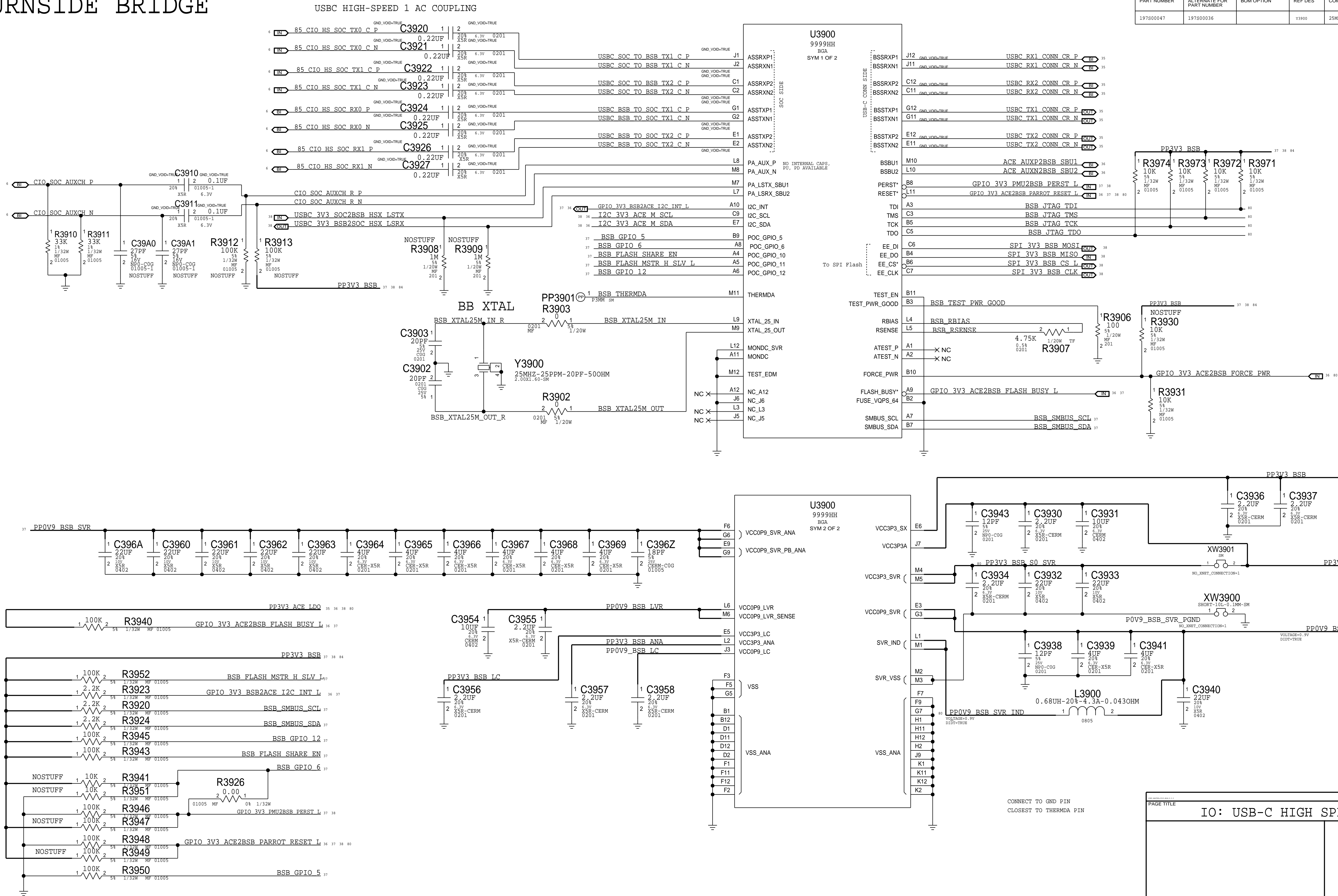
2

5.5V-0.28PF
0201

1

BURNSIDE BRIDGE

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197S00047	197S00036		Y3900	25MHZ XTAL KYO.

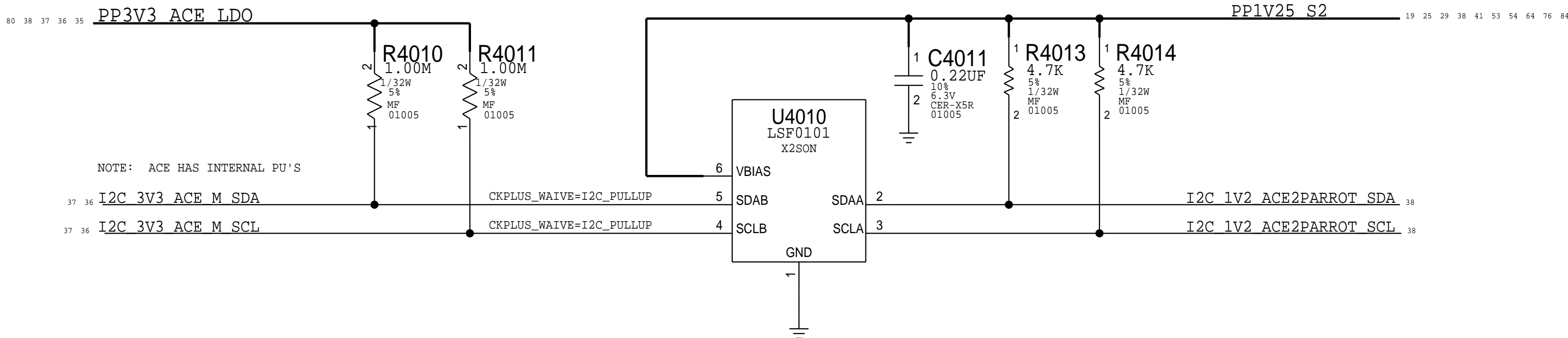


CONNECT TO GND PIN
CLOSEST TO THERMDA PIN

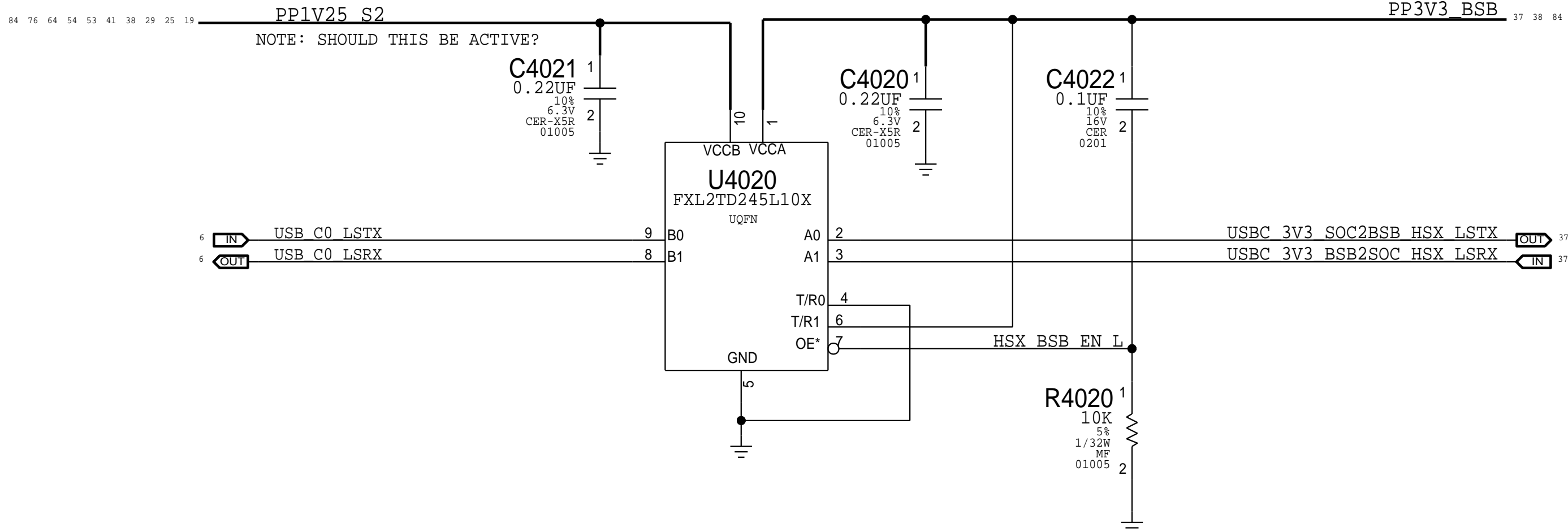
IO: USB-C HIGH SPEED

BOM_COST_GROUP=USB-C

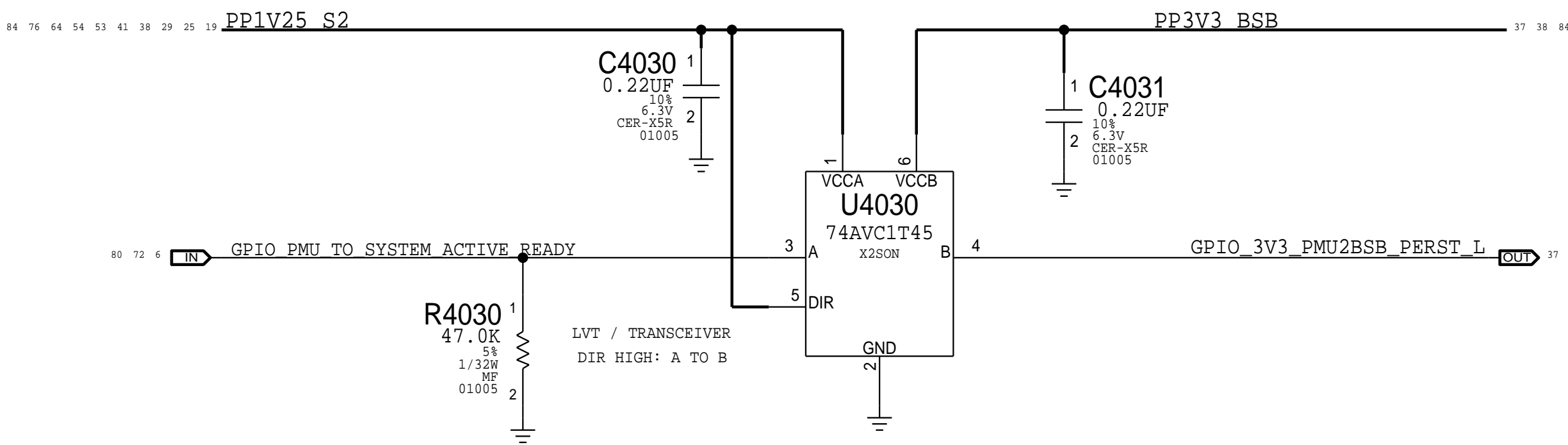
LEVEL SHIFTER FOR I2C ACE <-> PARROT



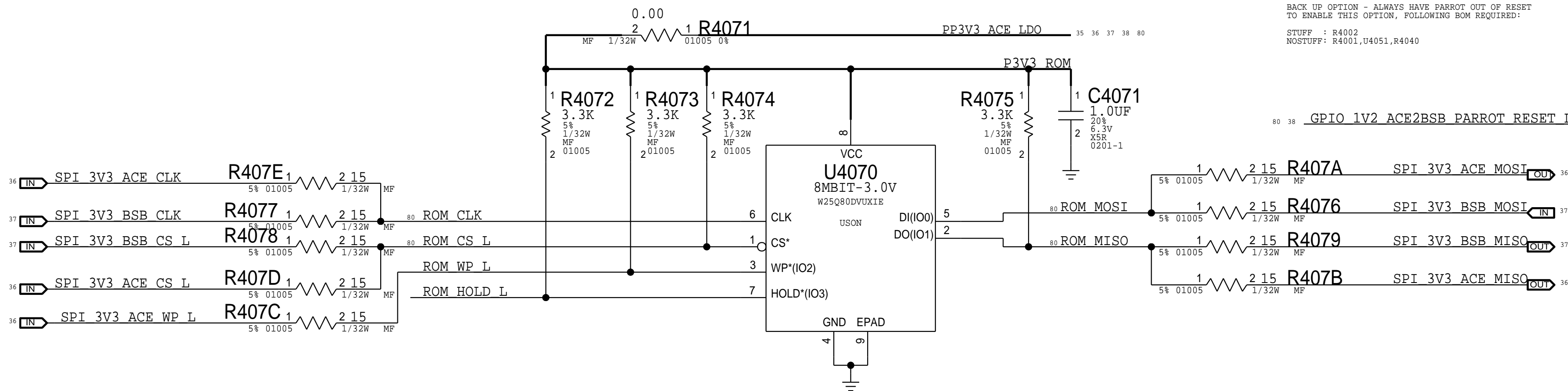
LEVEL SHIFTER FOR BSB <-> SOC LSRX/LSTX



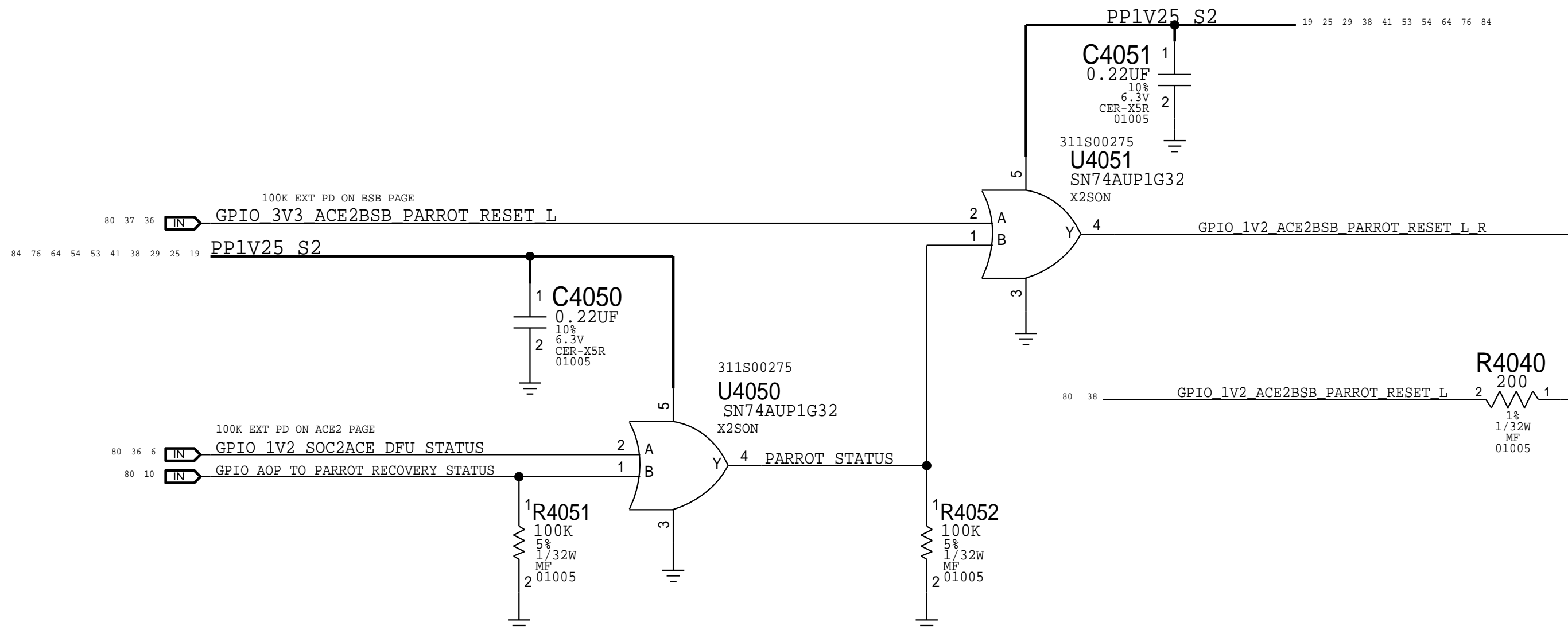
LEVEL SHIFTER FOR BSB <-> PMU ACTIVE RDY



ACE/BSB FLASH

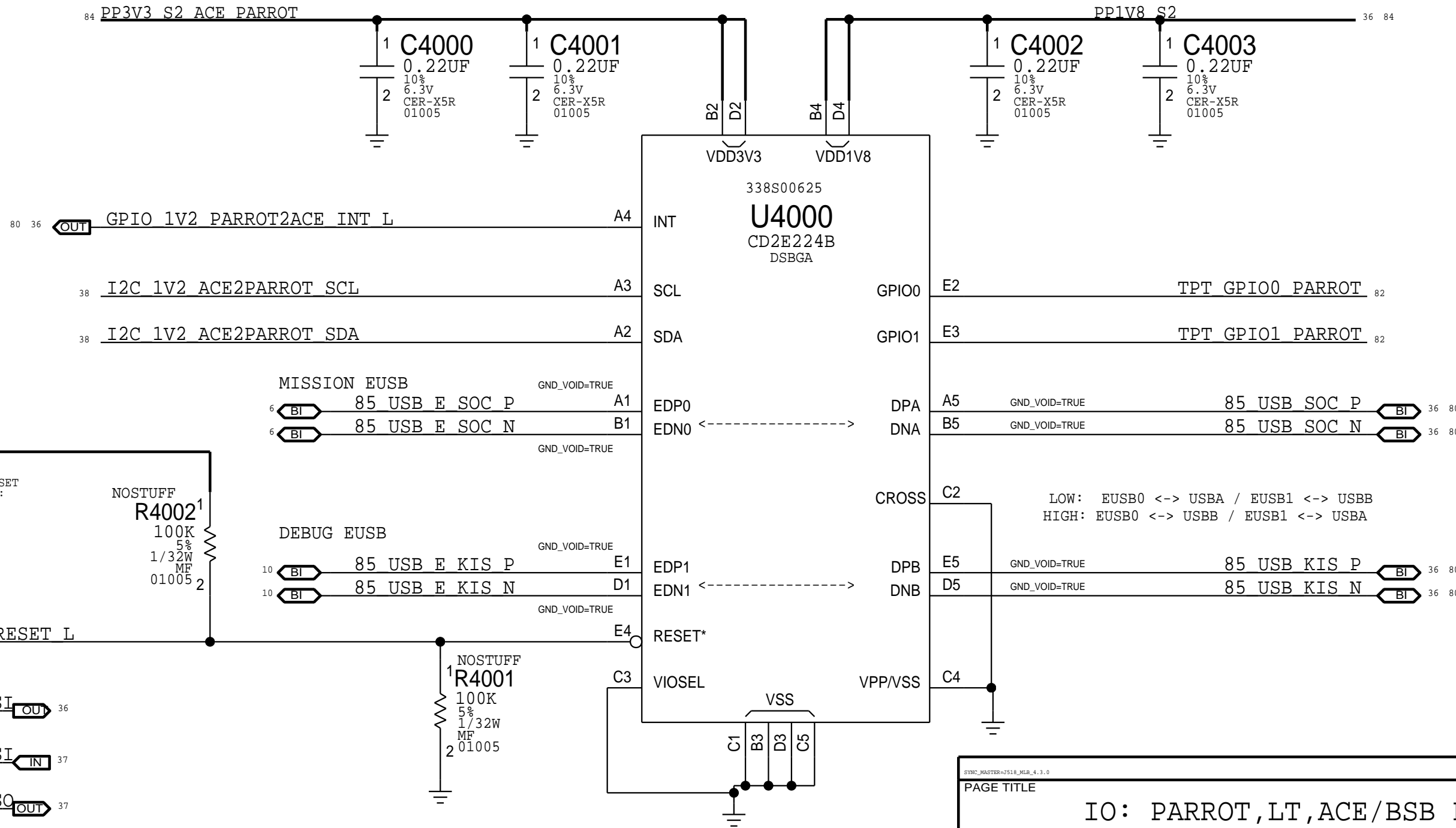


OR-GATE LEVEL SHIFTER FOR ACE <-> BSB RESET



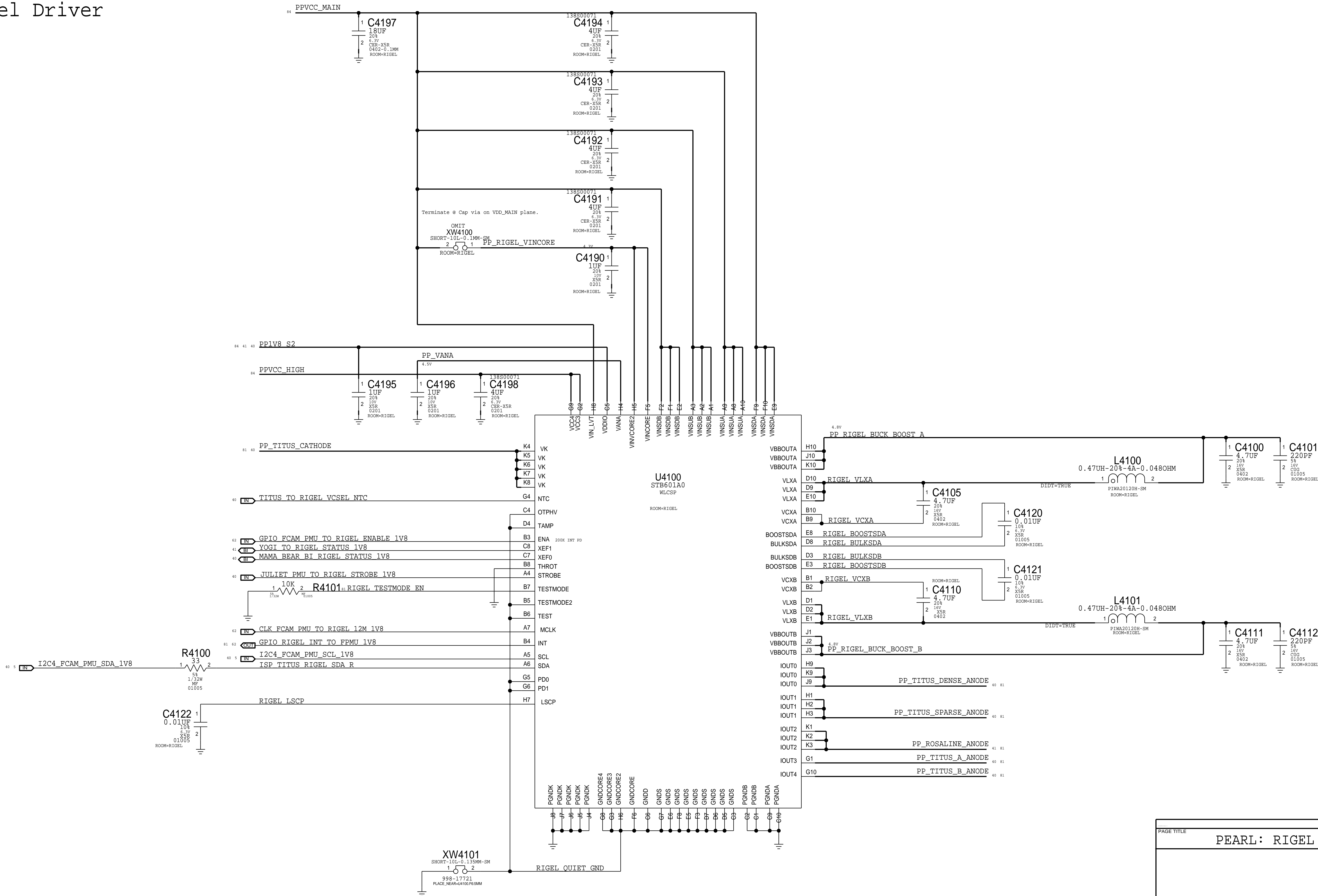
USB REPEATER
PARROT

PLACE PARROT NEAR SOC (<40MM)



IO: PARROT,LT,ACE/BSB FLASH

Rigel Driver



PAGE TITLE		
PEARL: RIGEL DRIVER		

8

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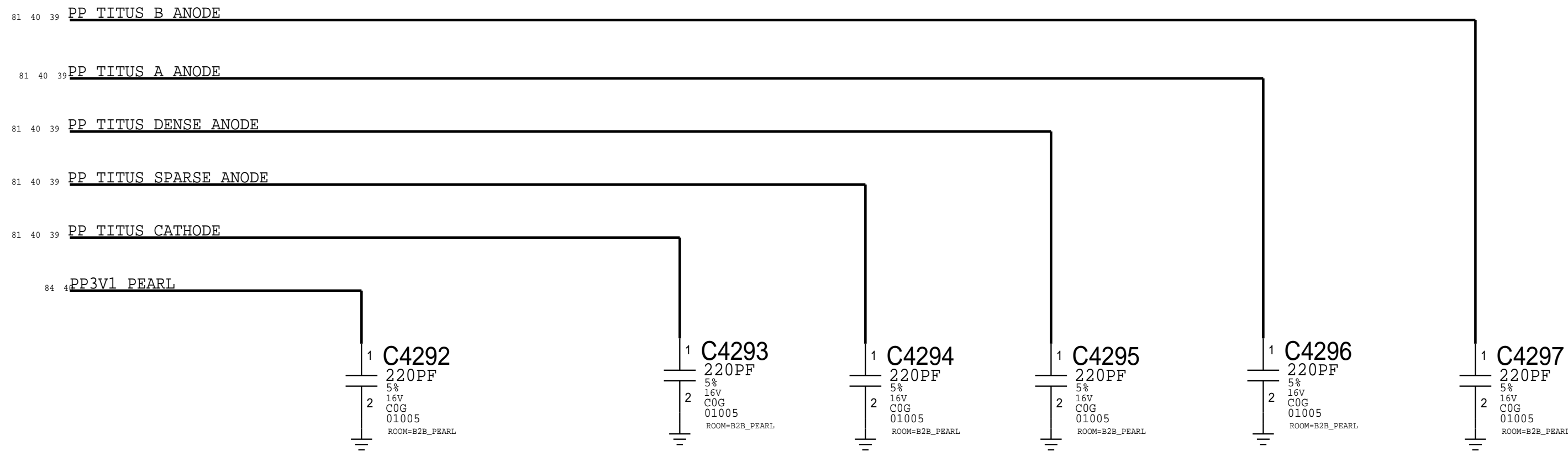
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3

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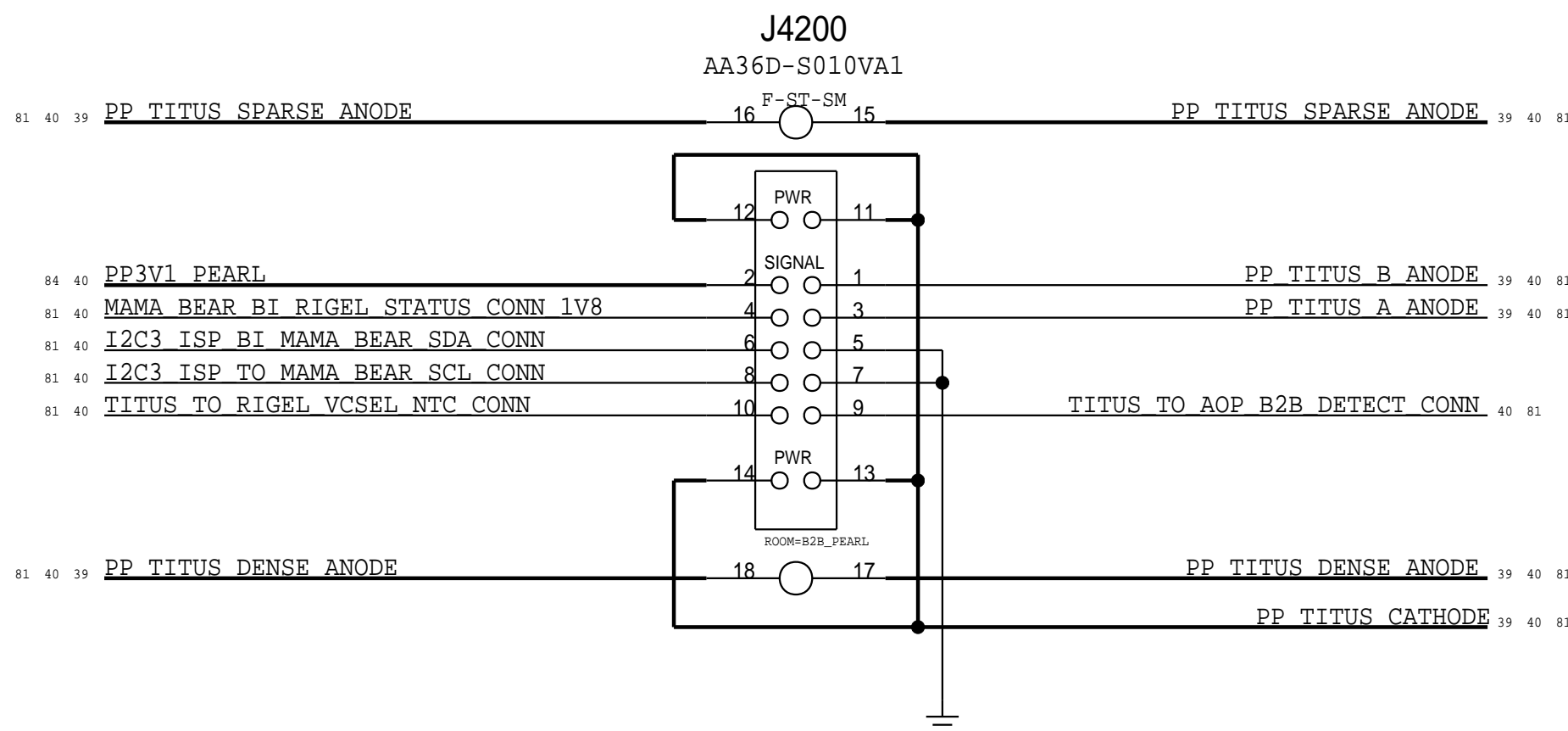
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TITUS POWER FILTERING

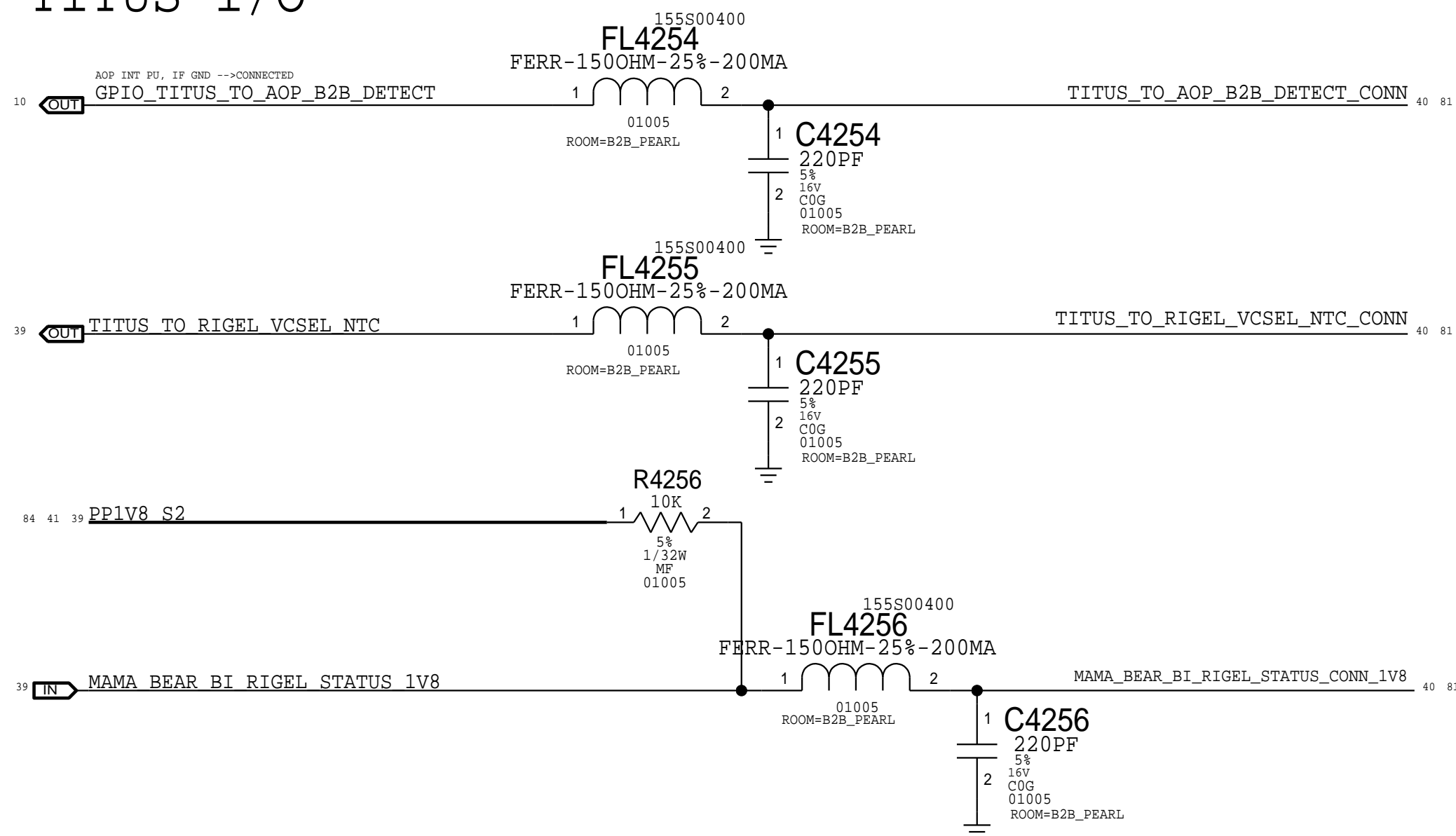


JEWEL CONNECTOR

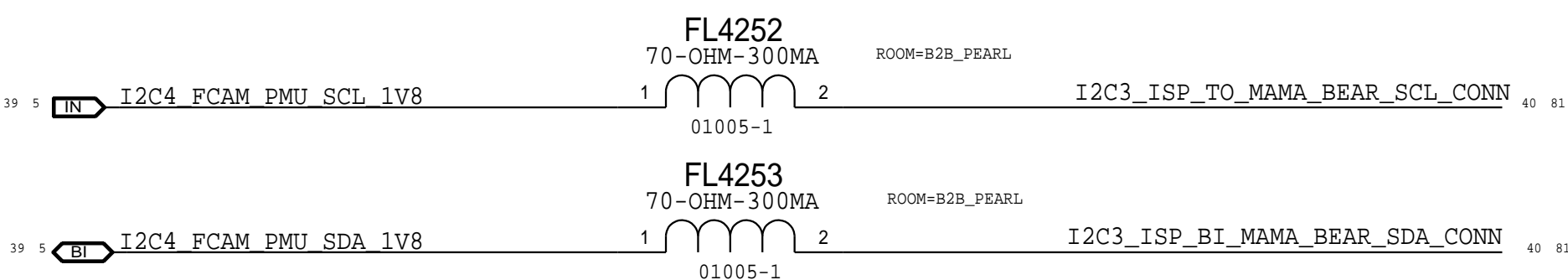
MLB: 516S00267
FLEX: 516S00268
MATCH J317_JEWEL_FLEX A.1.0



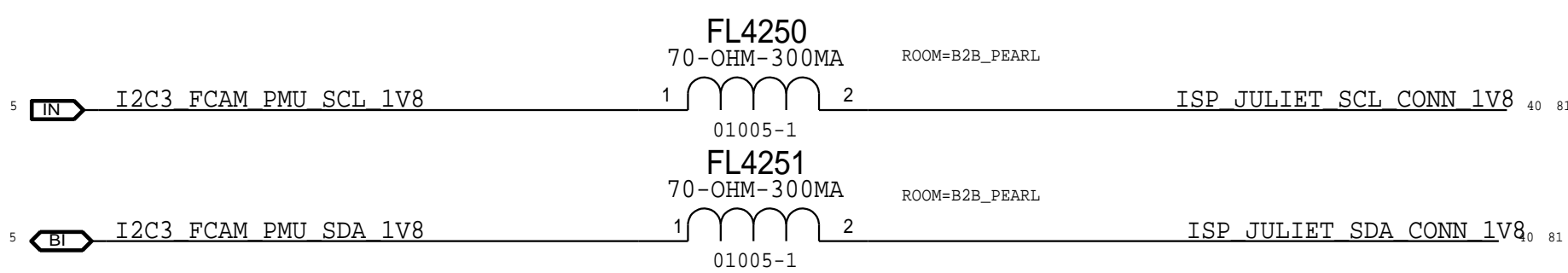
TITUS I/O



ISP TITUS_RIGEL I2C

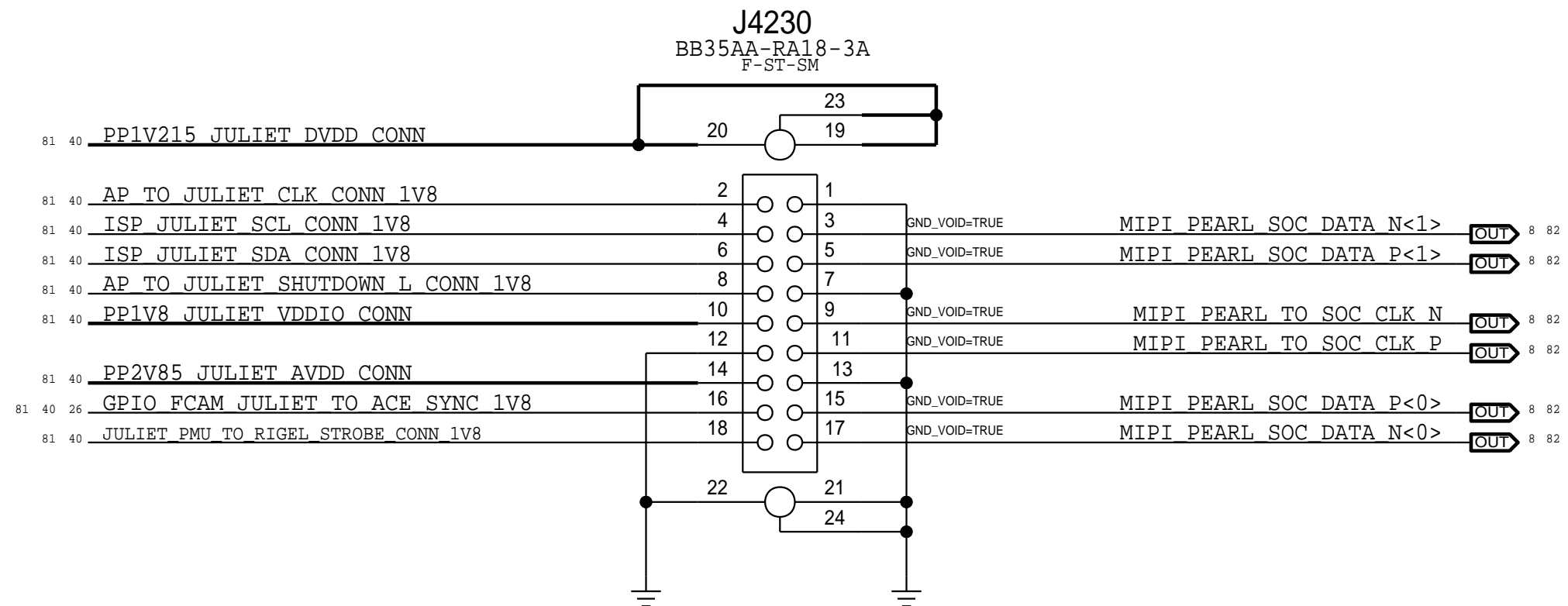


ISP JULIET I2C



JULIET CONNECTOR

FLEX SIDE: 516S00396
MLB SIDE: 516S00395
MATCH J317_JULIET_FLEX A.0.0



Juliet Power and I/O



PAGE TITLE	
PEARL: B2B TITUS + JULIET	

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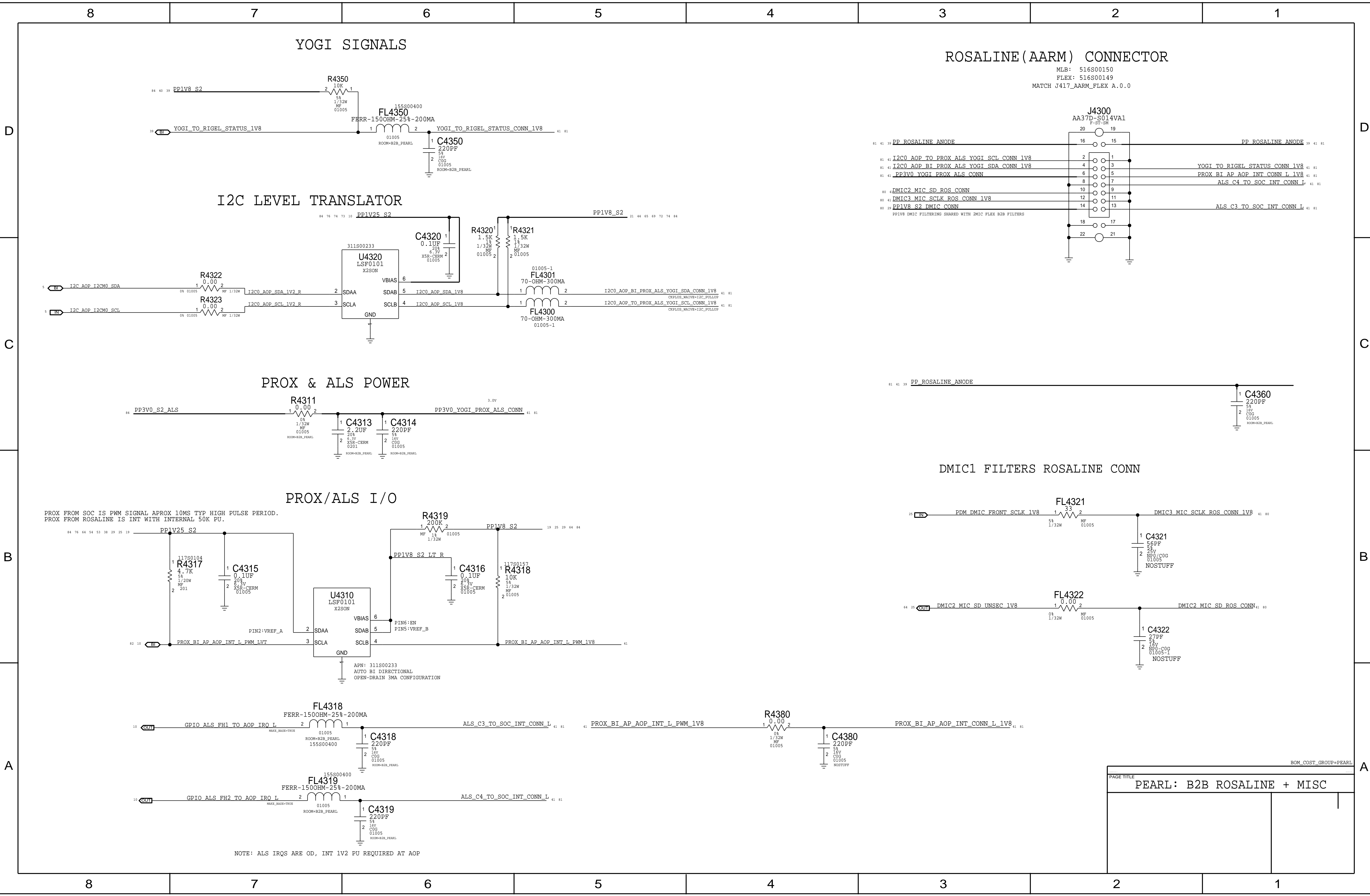
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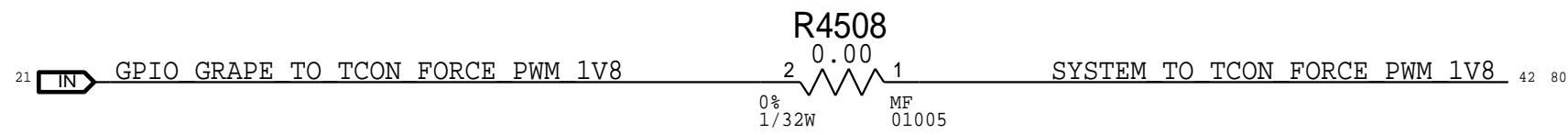
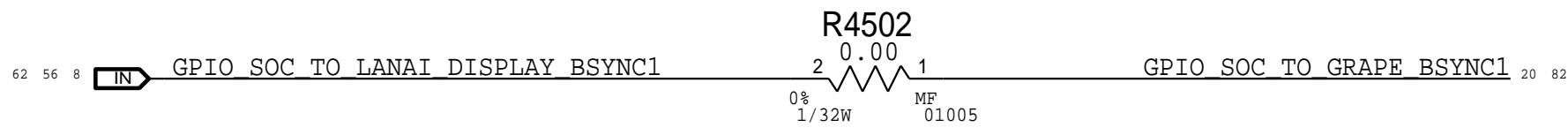
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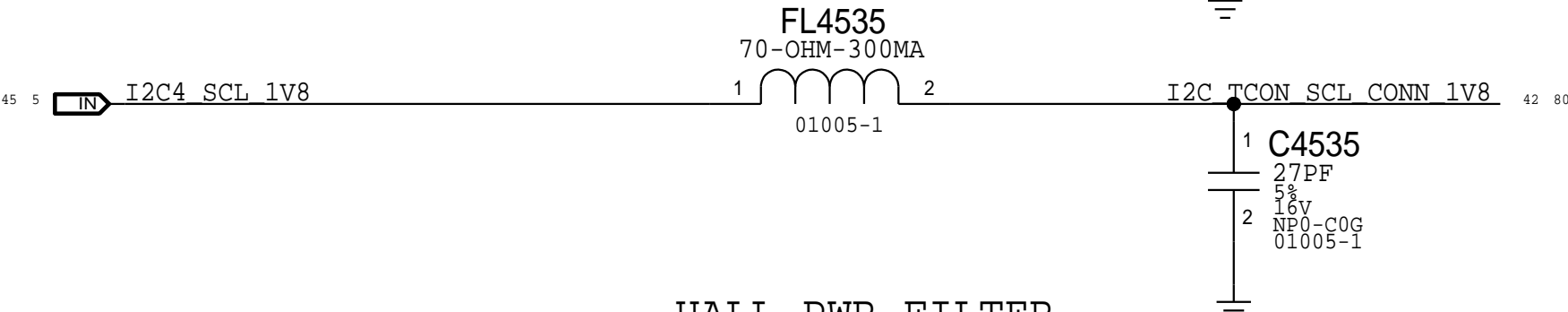
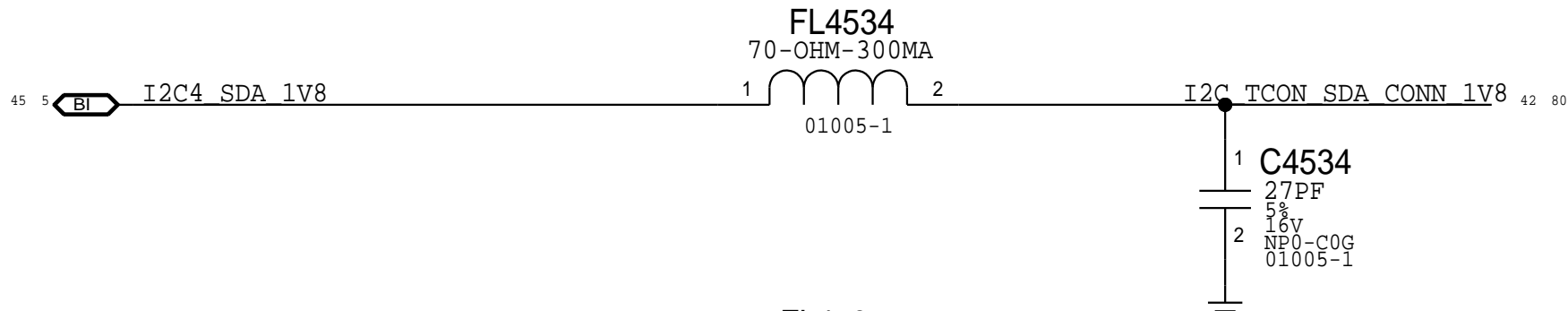
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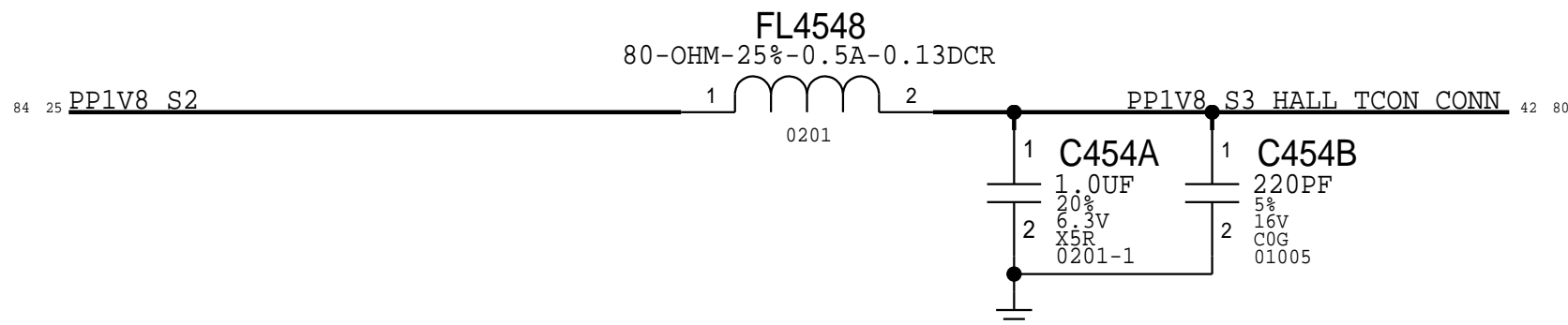
EDP FLEX FILTERS AND CONNECTORS



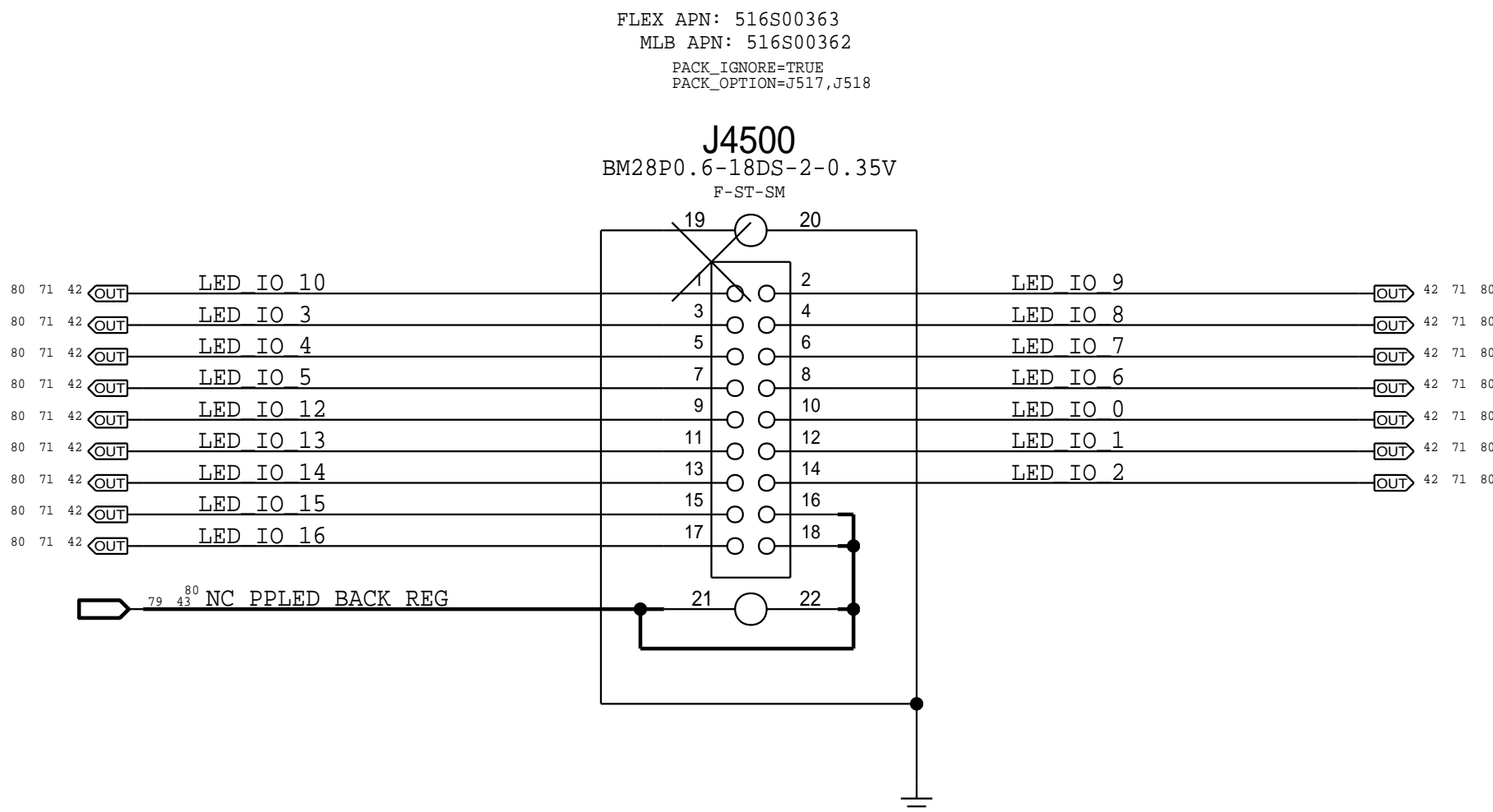
TCON I2C FILTERS



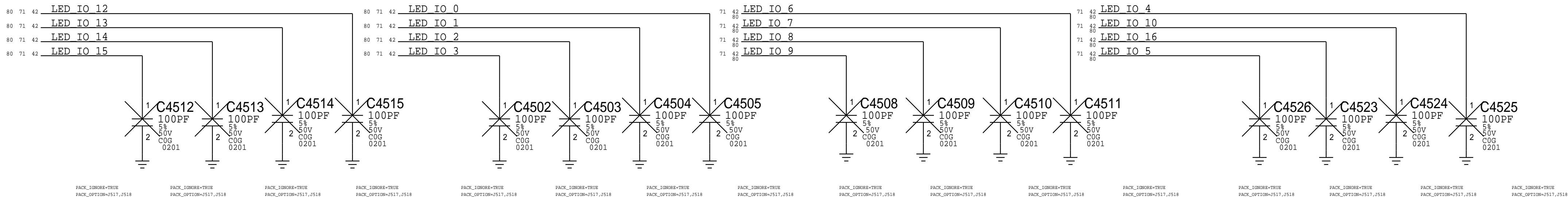
HALL PWR FILTER



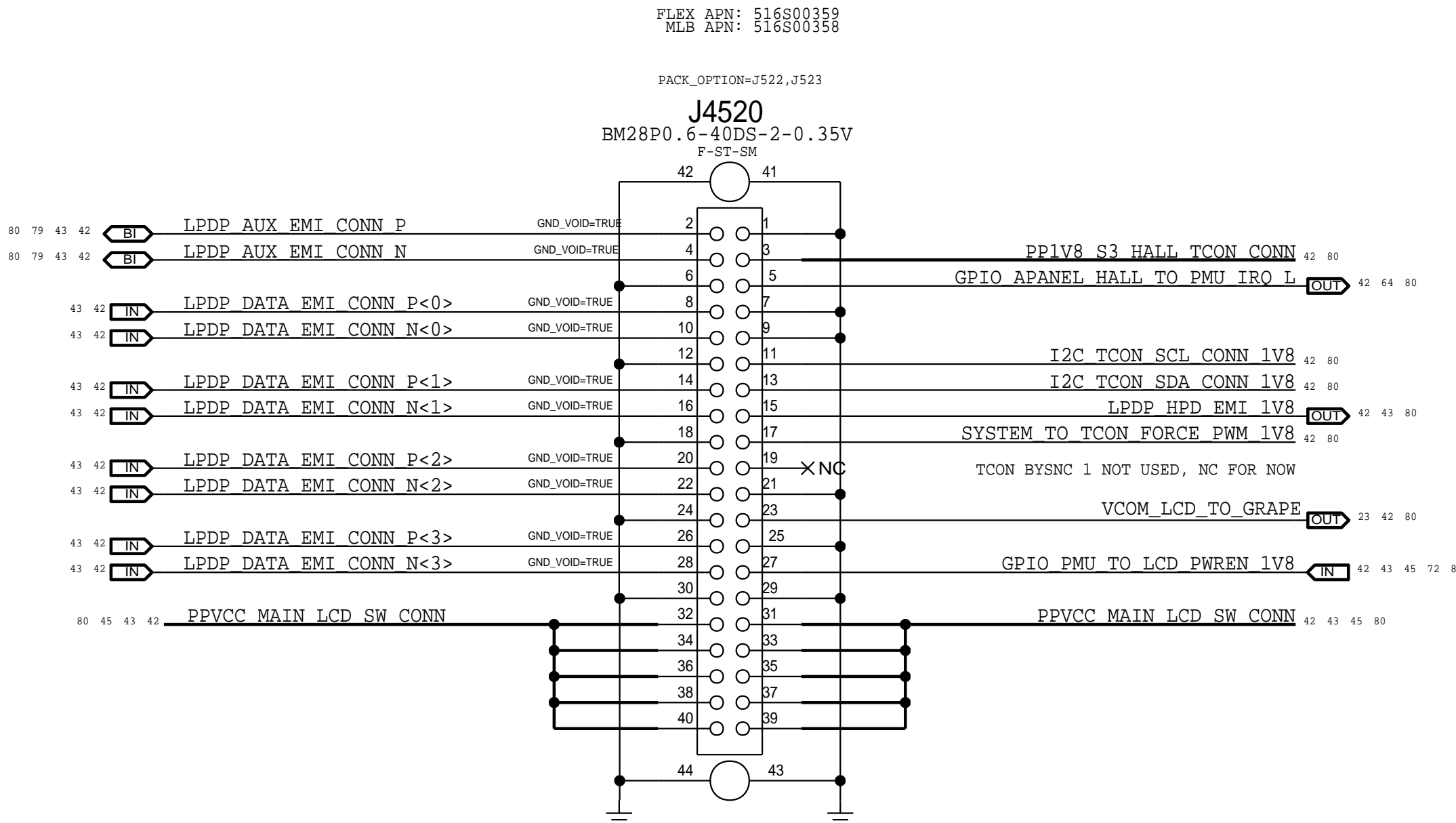
J517 BL CONN MLB SIDE 18+2 PIN B2B



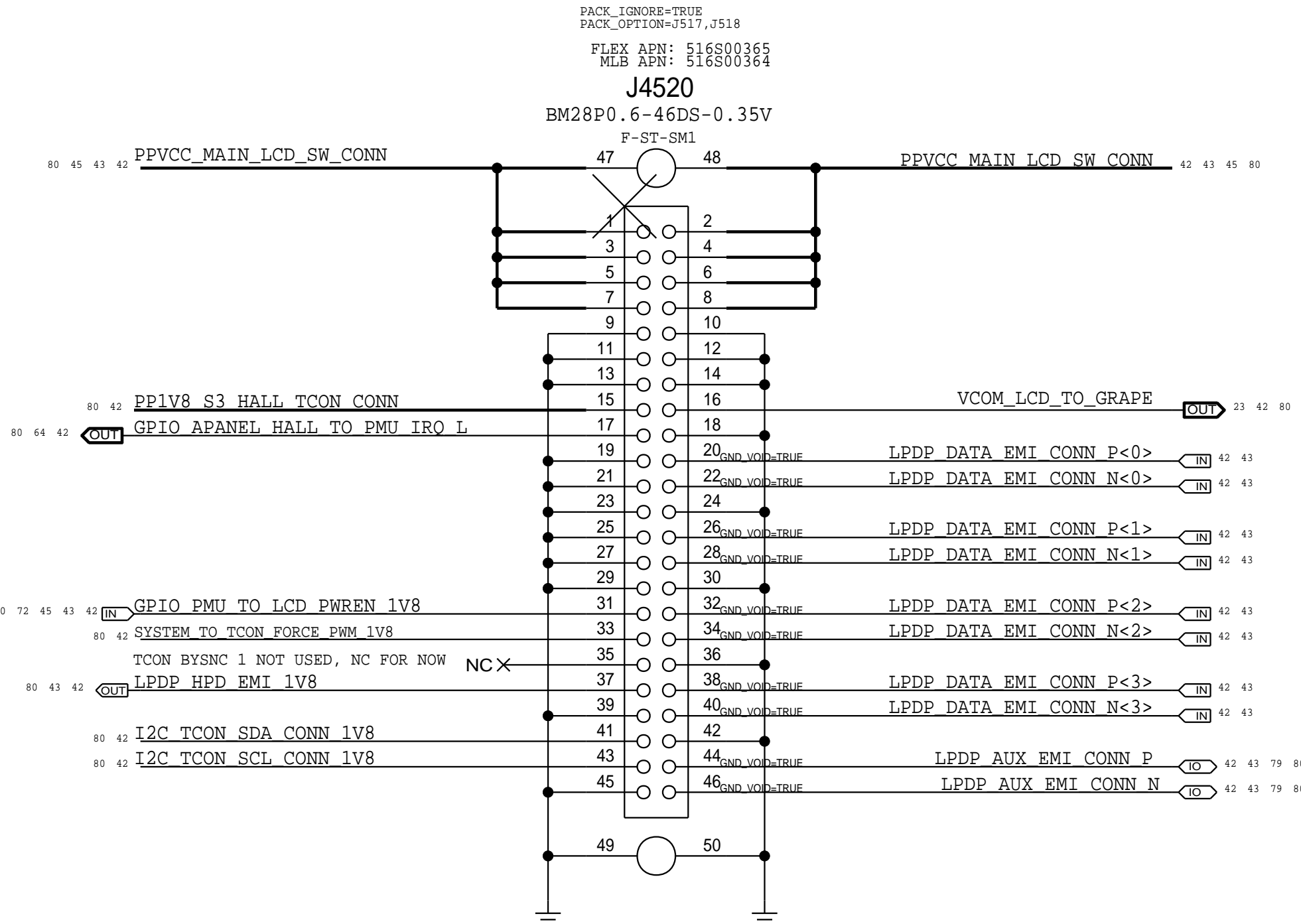
LED DRIVER FILTERS



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,SLG5AP1445,PMU SW,GREENPCT3,4A,T20PM	U4600	CRITICAL	J522&J523
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

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D

C

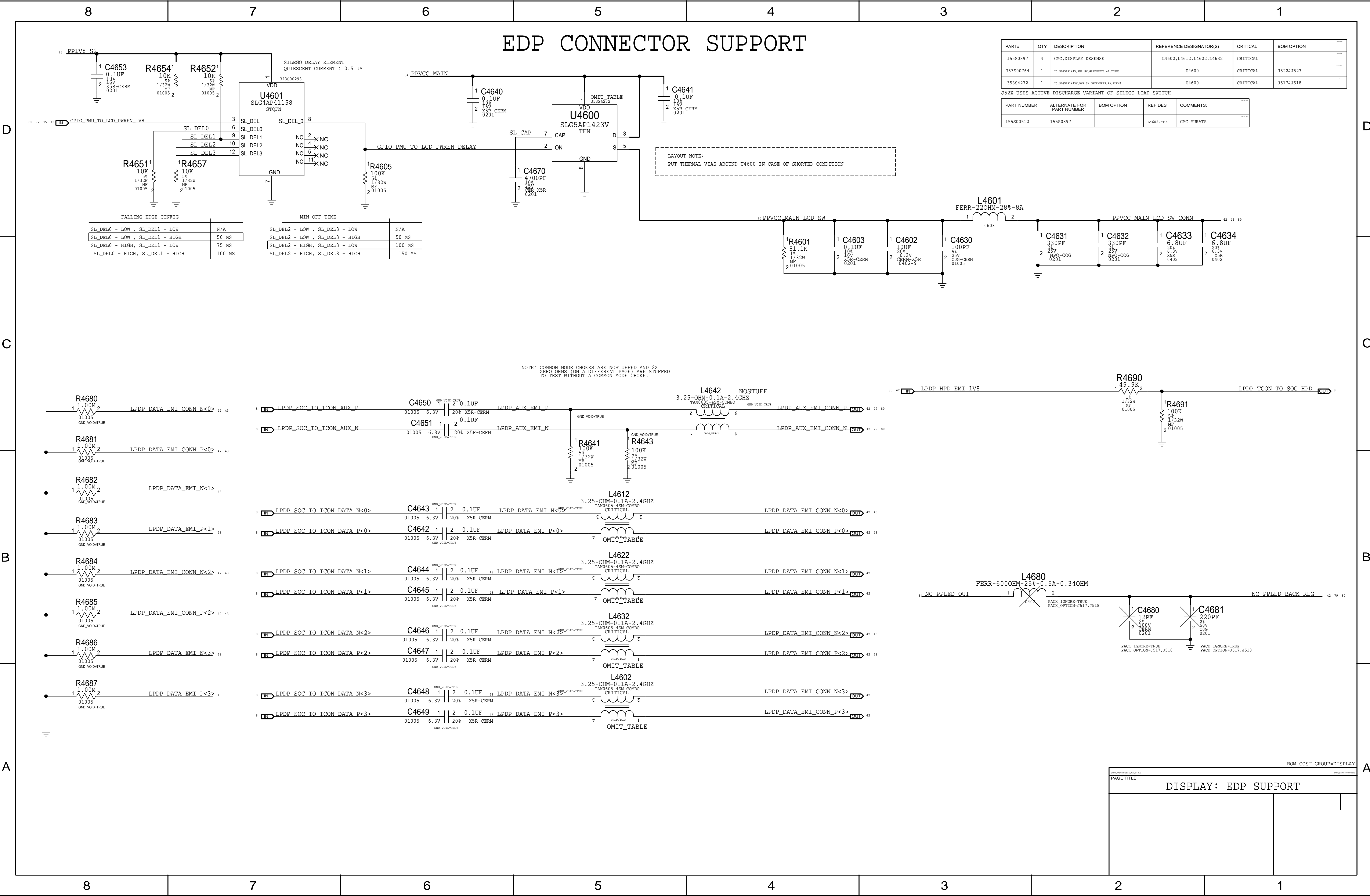
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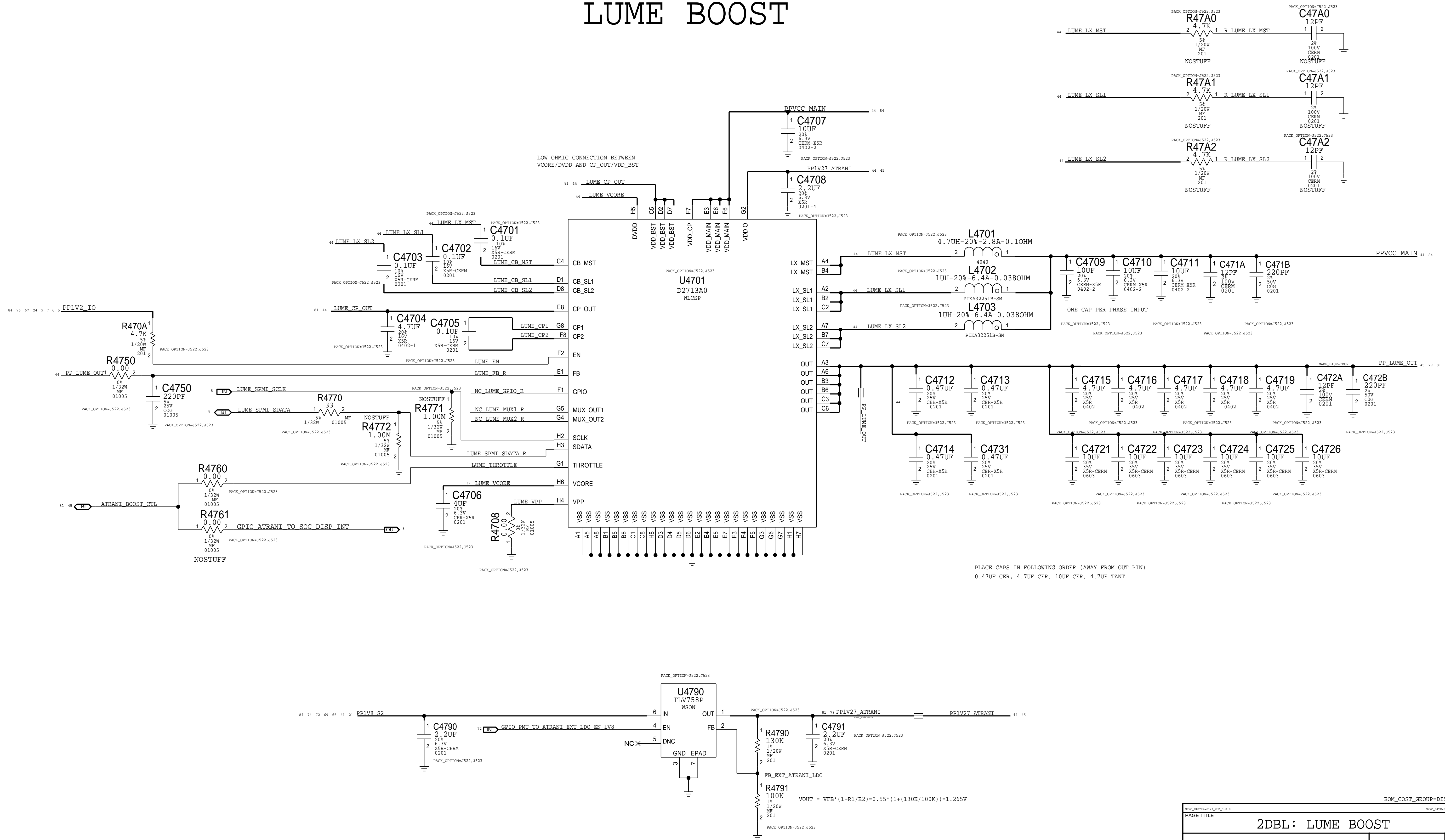
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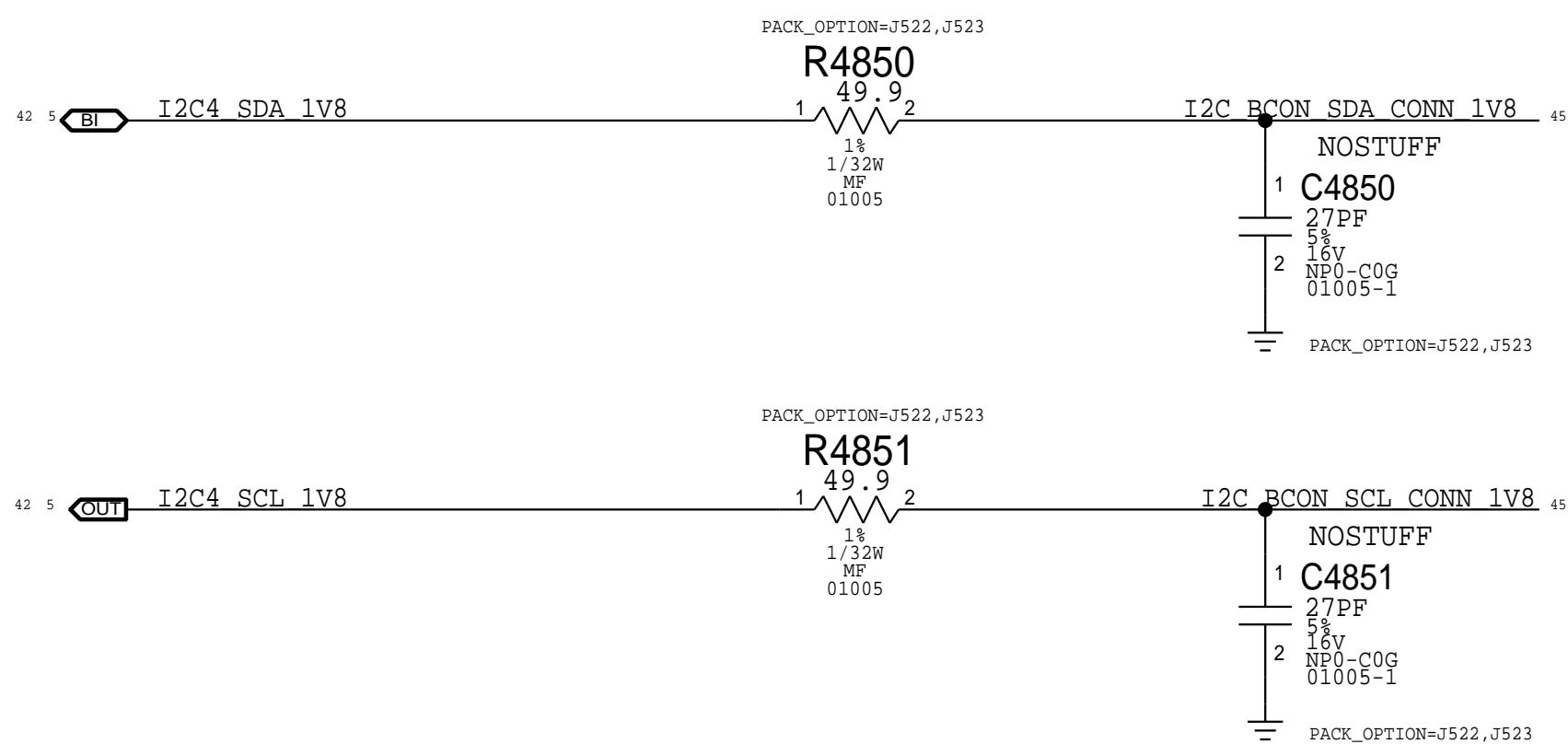
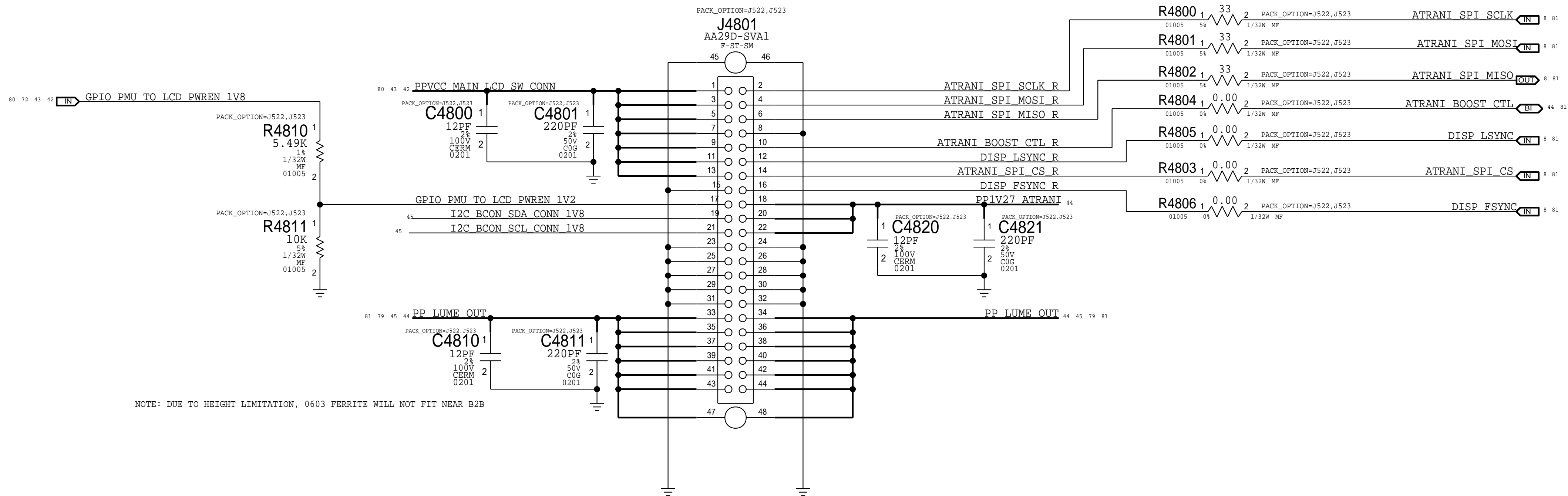


LUME BOOST



BCON B2B CONN

APN:516S00222
MATING APN: 516S00223



8		7		6		5		4		3		2		1																																																							
2G CORE0																																																																					
<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>131S0648</td><td>1</td><td>CAP,0.3PF,+/−0.05PF,16V,01005</td><td>C466_W</td><td>CRITICAL</td><td>J523</td></tr></table>																PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION	131S0648	1	CAP,0.3PF,+/−0.05PF,16V,01005	C466_W	CRITICAL	J523																																										
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION																																																																
131S0648	1	CAP,0.3PF,+/−0.05PF,16V,01005	C466_W	CRITICAL	J523																																																																
2G CORE1																																																																					
<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>152S01247</td><td>1</td><td>IND,FILM,1NH,+/−0.05NH,01005</td><td>R473_W</td><td>CRITICAL</td><td>J523</td></tr><tr><td>131S0648</td><td>1</td><td>CAP,0.3PF,+/−0.05PF,16V,01005</td><td>C476_W</td><td>CRITICAL</td><td>J523</td></tr><tr><td>117S0161</td><td>1</td><td>RES,MF,0 OHM,1/32W,01005</td><td>R473_W</td><td>CRITICAL</td><td>J522</td></tr></table>																PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION	152S01247	1	IND,FILM,1NH,+/−0.05NH,01005	R473_W	CRITICAL	J523	131S0648	1	CAP,0.3PF,+/−0.05PF,16V,01005	C476_W	CRITICAL	J523	117S0161	1	RES,MF,0 OHM,1/32W,01005	R473_W	CRITICAL	J522																														
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION																																																																
152S01247	1	IND,FILM,1NH,+/−0.05NH,01005	R473_W	CRITICAL	J523																																																																
131S0648	1	CAP,0.3PF,+/−0.05PF,16V,01005	C476_W	CRITICAL	J523																																																																
117S0161	1	RES,MF,0 OHM,1/32W,01005	R473_W	CRITICAL	J522																																																																
RFFE																																																																					
<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>117S0182</td><td>1</td><td>RES,MF,22 OHM,5%,1/32W,01005</td><td>R260_W</td><td>CRITICAL</td><td>J523</td></tr><tr><td>117S0182</td><td>1</td><td>RES,MF,22 OHM,5%,1/32W,01005</td><td>R261_W</td><td>CRITICAL</td><td>J523</td></tr><tr><td>117S0182</td><td>1</td><td>RES,MF,22 OHM,5%,1/32W,01005</td><td>R262_W</td><td>CRITICAL</td><td>J523</td></tr><tr><td>117S0182</td><td>1</td><td>RES,MF,22 OHM,5%,1/32W,01005</td><td>R263_W</td><td>CRITICAL</td><td>J523</td></tr><tr><td>117S0161</td><td>1</td><td>RES,MF,0 OHM,1/32W,01005</td><td>R260_W</td><td>CRITICAL</td><td>J522</td></tr><tr><td>117S0161</td><td>1</td><td>RES,MF,0 OHM,1/32W,01005</td><td>R261_W</td><td>CRITICAL</td><td>J522</td></tr><tr><td>117S0161</td><td>1</td><td>RES,MF,0 OHM,1/32W,01005</td><td>R262_W</td><td>CRITICAL</td><td>J522</td></tr><tr><td>117S0161</td><td>1</td><td>RES,MF,0 OHM,1/32W,01005</td><td>R263_W</td><td>CRITICAL</td><td>J522</td></tr></table>																PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION	117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R260_W	CRITICAL	J523	117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R261_W	CRITICAL	J523	117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R262_W	CRITICAL	J523	117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R263_W	CRITICAL	J523	117S0161	1	RES,MF,0 OHM,1/32W,01005	R260_W	CRITICAL	J522	117S0161	1	RES,MF,0 OHM,1/32W,01005	R261_W	CRITICAL	J522	117S0161	1	RES,MF,0 OHM,1/32W,01005	R262_W	CRITICAL	J522	117S0161	1	RES,MF,0 OHM,1/32W,01005	R263_W	CRITICAL	J522
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION																																																																
117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R260_W	CRITICAL	J523																																																																
117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R261_W	CRITICAL	J523																																																																
117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R262_W	CRITICAL	J523																																																																
117S0182	1	RES,MF,22 OHM,5%,1/32W,01005	R263_W	CRITICAL	J523																																																																
117S0161	1	RES,MF,0 OHM,1/32W,01005	R260_W	CRITICAL	J522																																																																
117S0161	1	RES,MF,0 OHM,1/32W,01005	R261_W	CRITICAL	J522																																																																
117S0161	1	RES,MF,0 OHM,1/32W,01005	R262_W	CRITICAL	J522																																																																
117S0161	1	RES,MF,0 OHM,1/32W,01005	R263_W	CRITICAL	J522																																																																
WiFi BOM Options																																																																					

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PAGE TITLE														
WiFi BOM Options														

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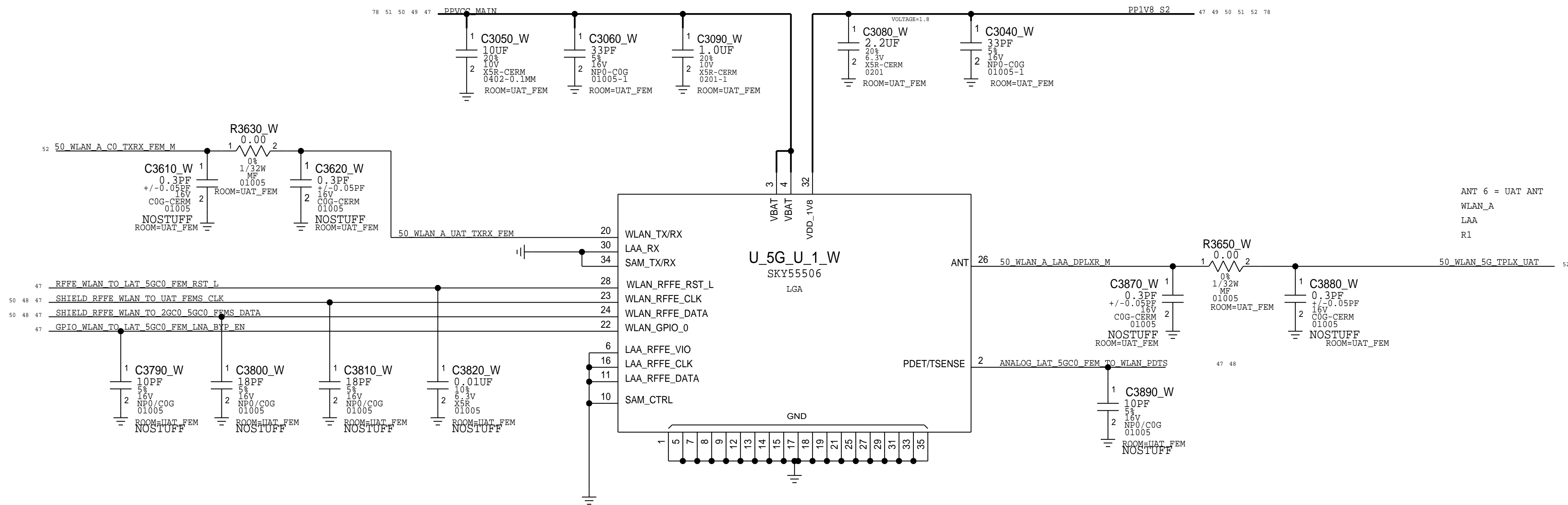
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J522 UAT 5GHZ RFEM



OMIT SH PP2090_W P2MM-NSM ROOM=WLAN 1 ANALOG_LAT_5GC0_FEM_TO_WLAN_PDTS 47 48

OMIT SH PP2180_W P2MM-NSM ROOM=WLAN 1 SHIELD_RFFE_WLAN_TO_UAT_FEMS_CLK 47 48 50

OMIT SH PP2190_W P2MM-NSM ROOM=WLAN 1 SHIELD_RFFE_WLAN_TO_2GC0_5GC0_FEMS_DATA 47 48 50

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J522 5G rFEM (UAT)

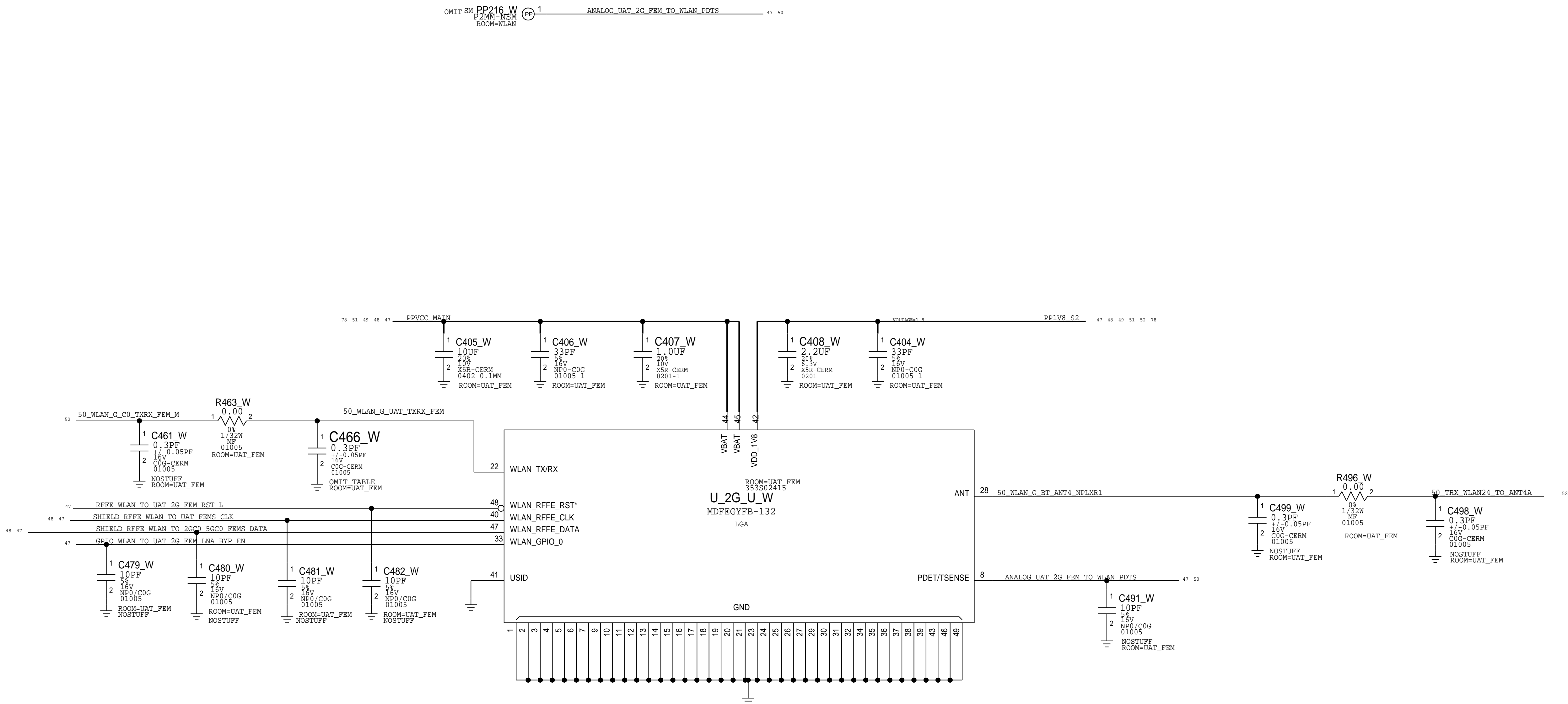
J522 LAT 5GHZ RFEM

OMIT S_{PP2080} W P2MM-NSM ROOM=WLAN 1 ANALOG UAT 5Gc1 FEM TO WLAN PDTS 47 49

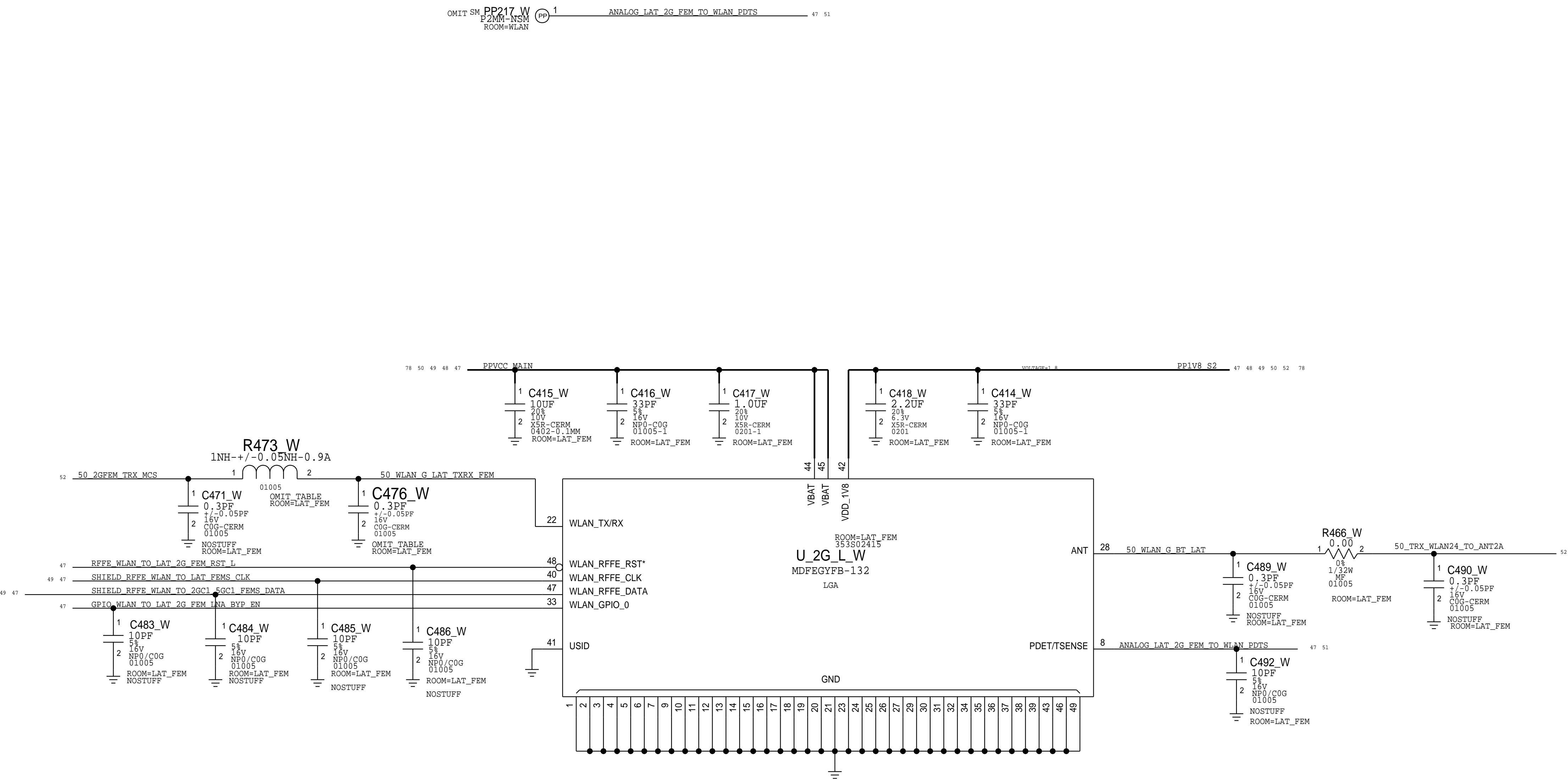
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OMIT S_{PP2210} W P2MM-NSM ROOM=WLAN 1 SHIELD RFFE WLAN TO 2Gc1 5Gc1 FEMS DATA 47 49 51

UAT 2.4 GHZ RFEM



LAT 2.4 GHZ RFEM



J522 FRONT END

D

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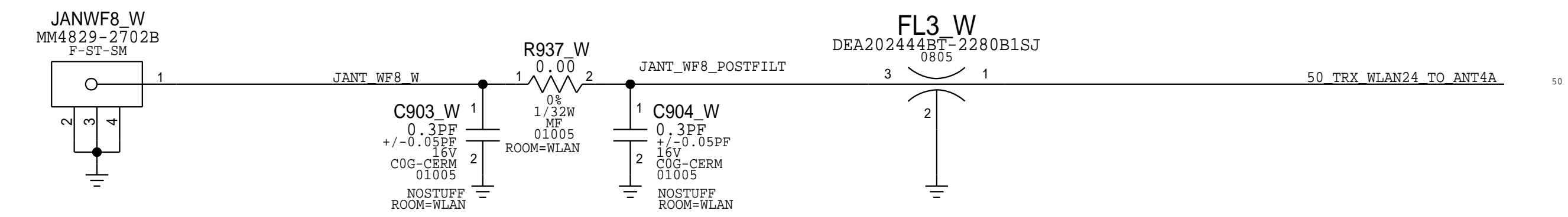
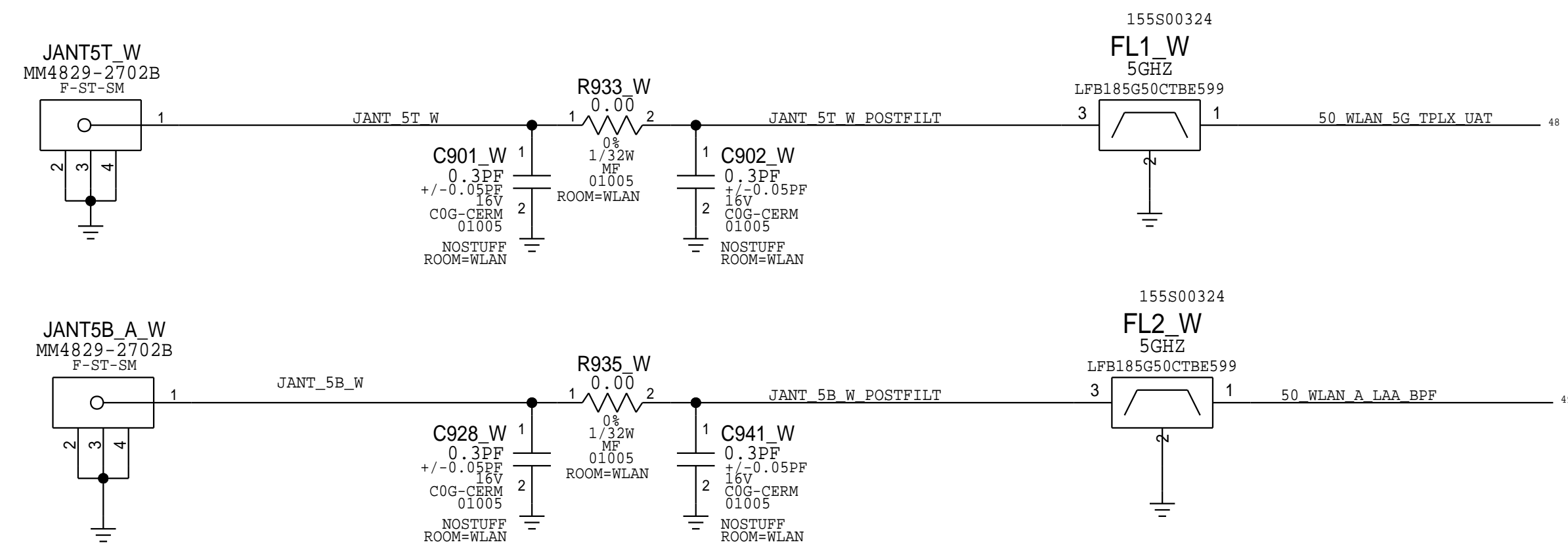
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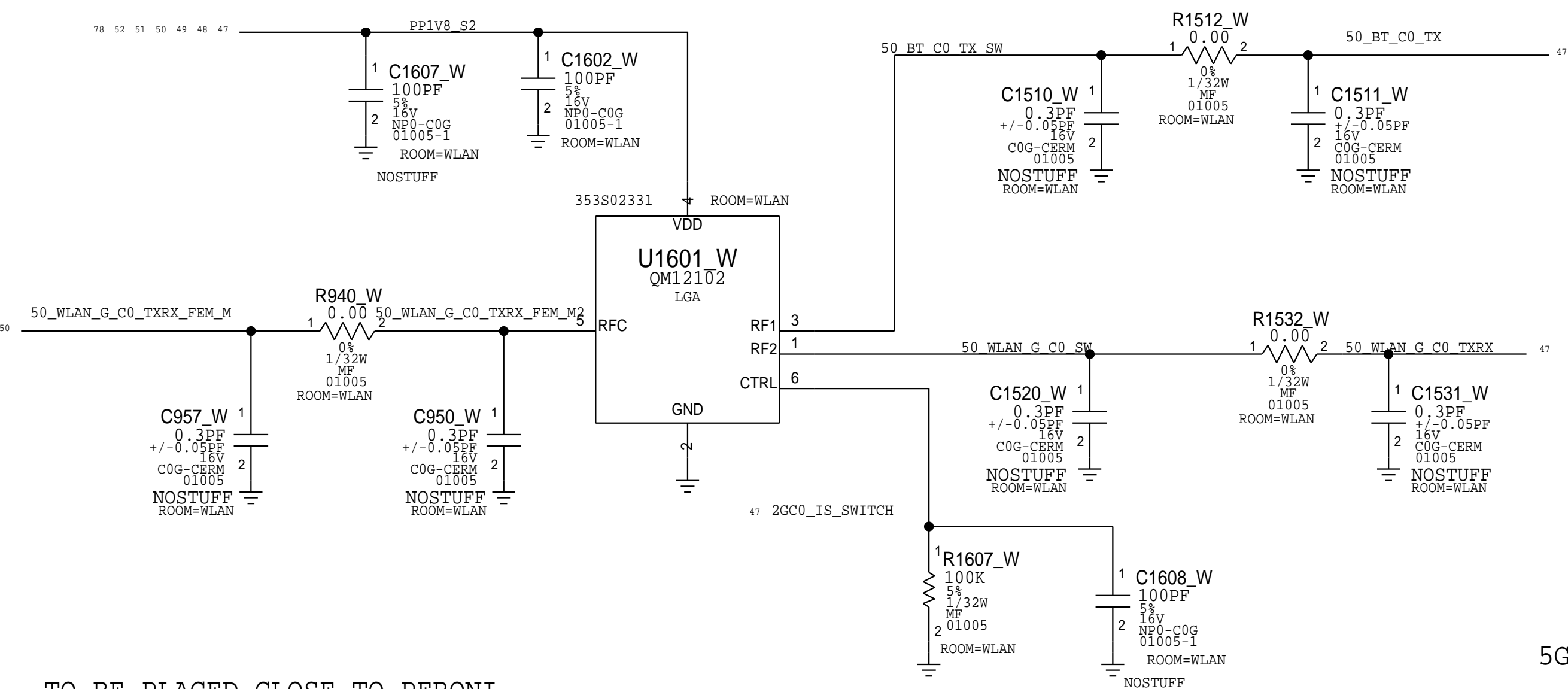
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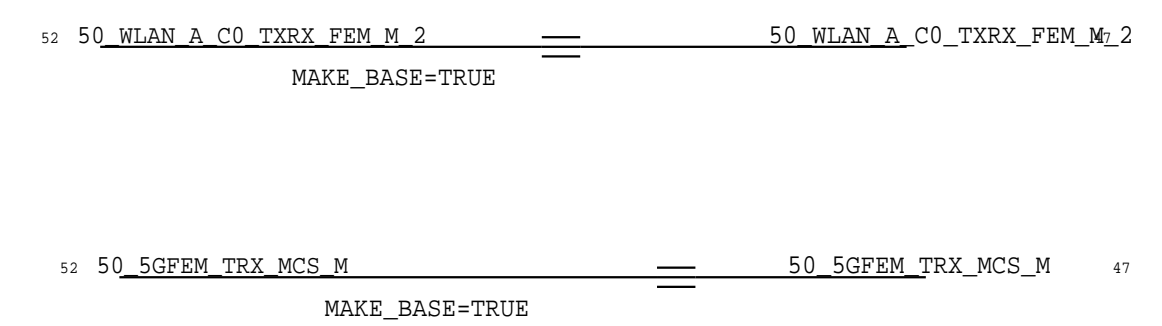
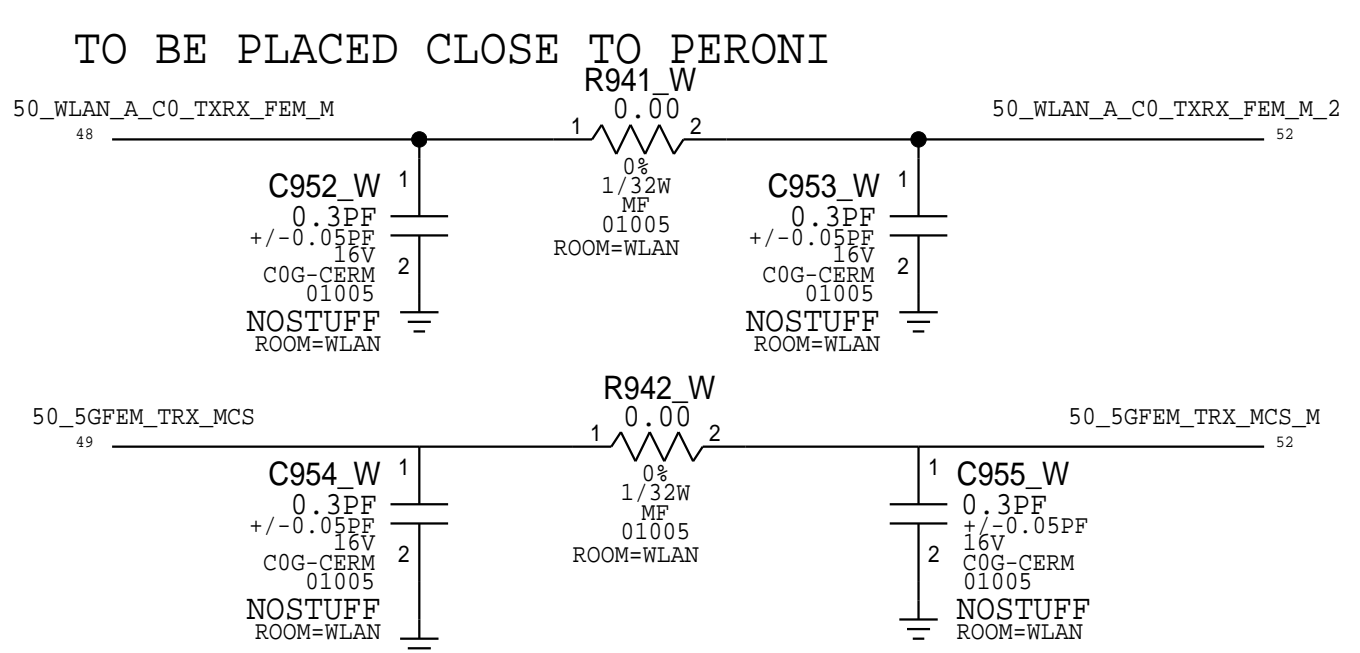
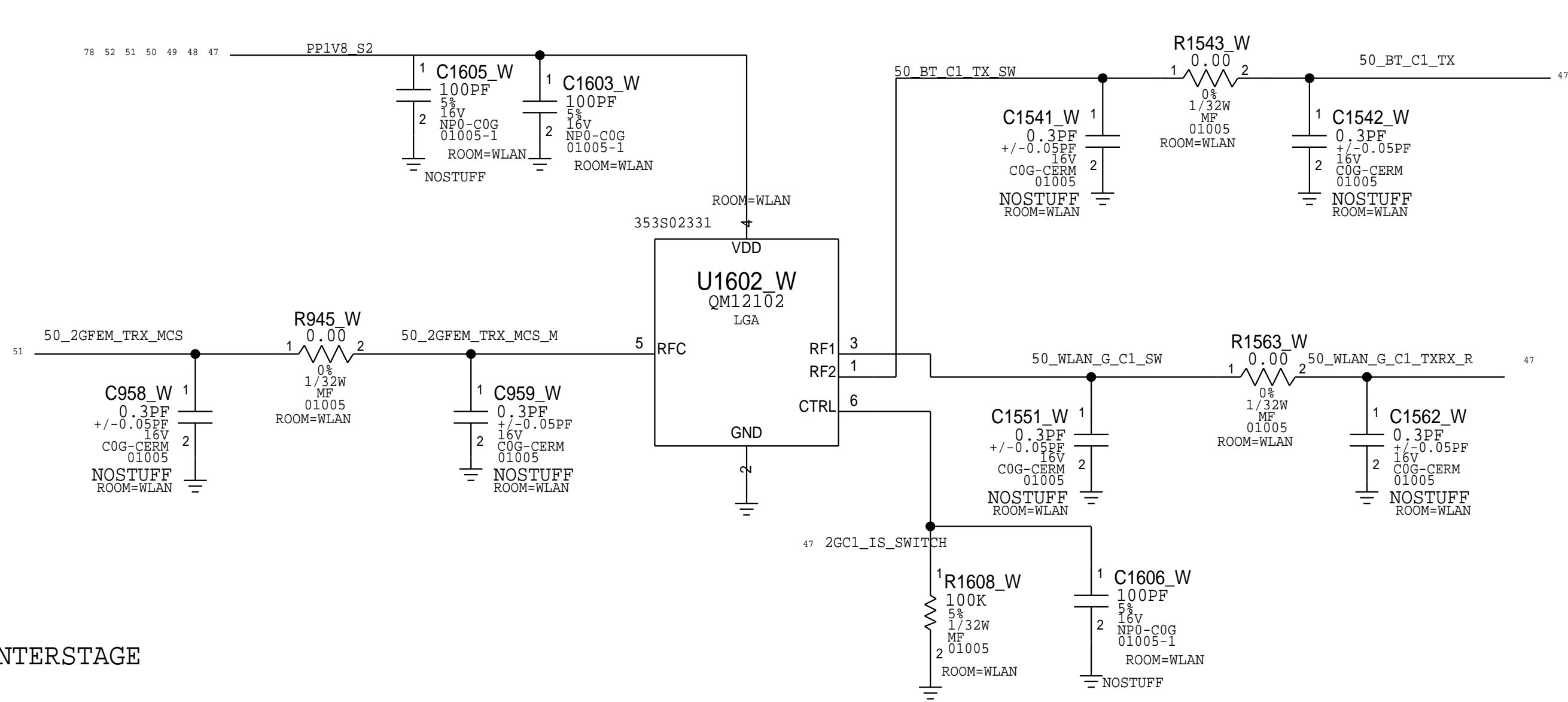


2G INTERSTAGE C0

2G INTERSTAGE C1

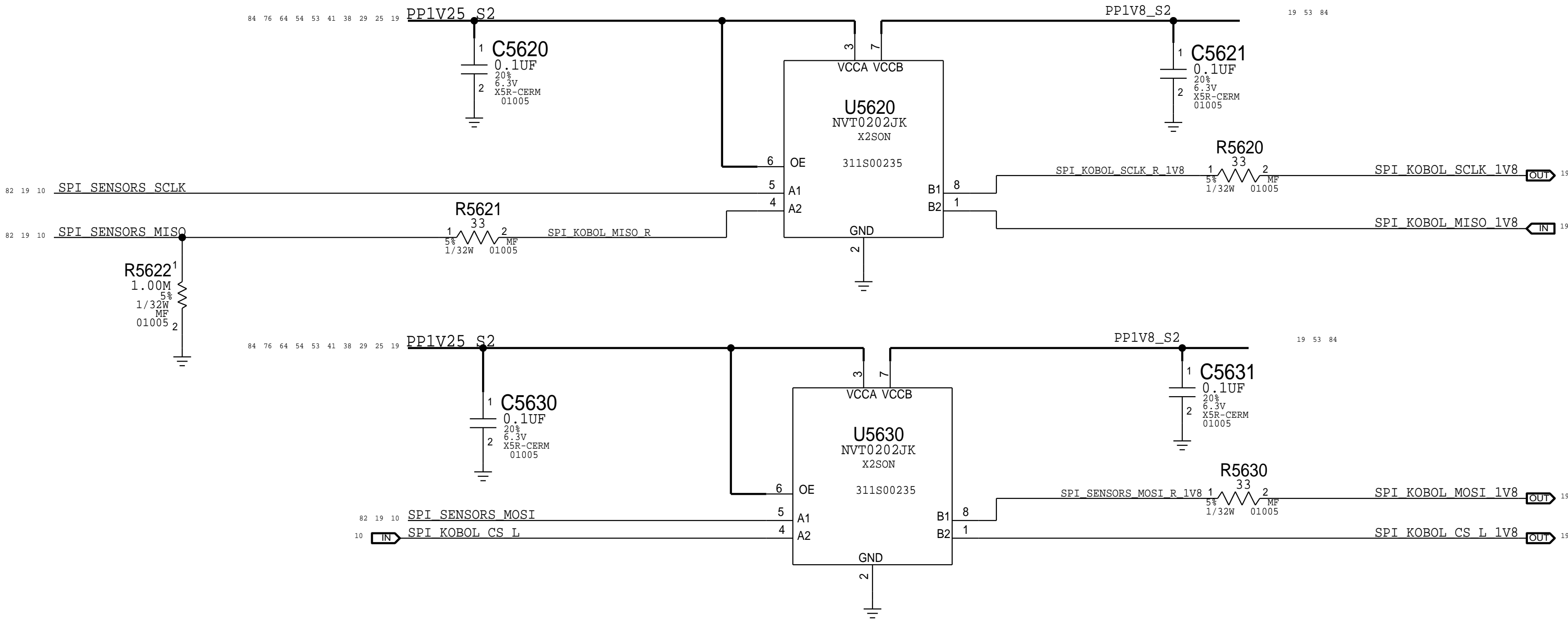


5G INTERSTAGE



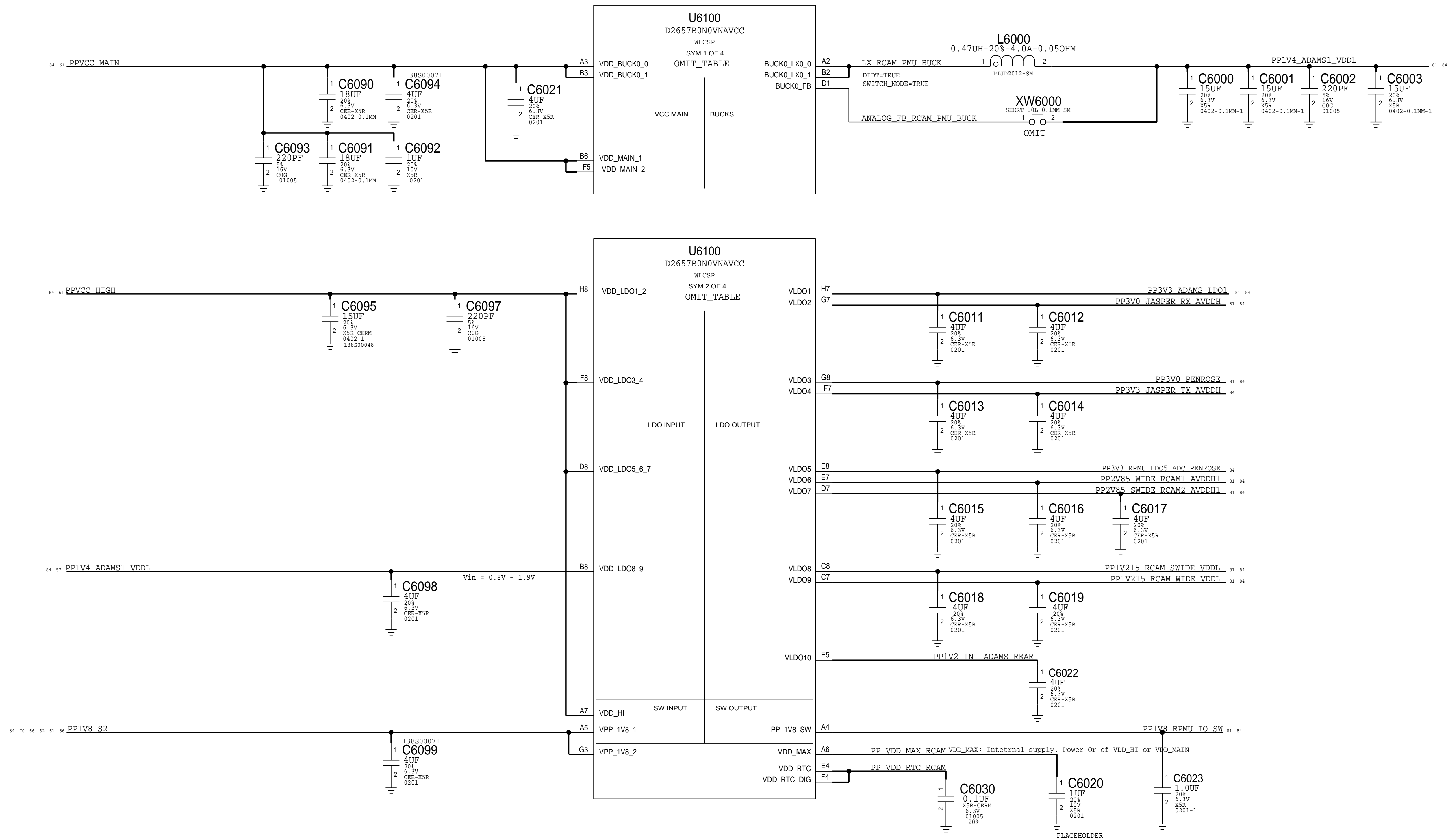
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J522 Front End			

KOBOL VOLTAGE TRANSLATION



PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
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RCAM ADAMS PMU

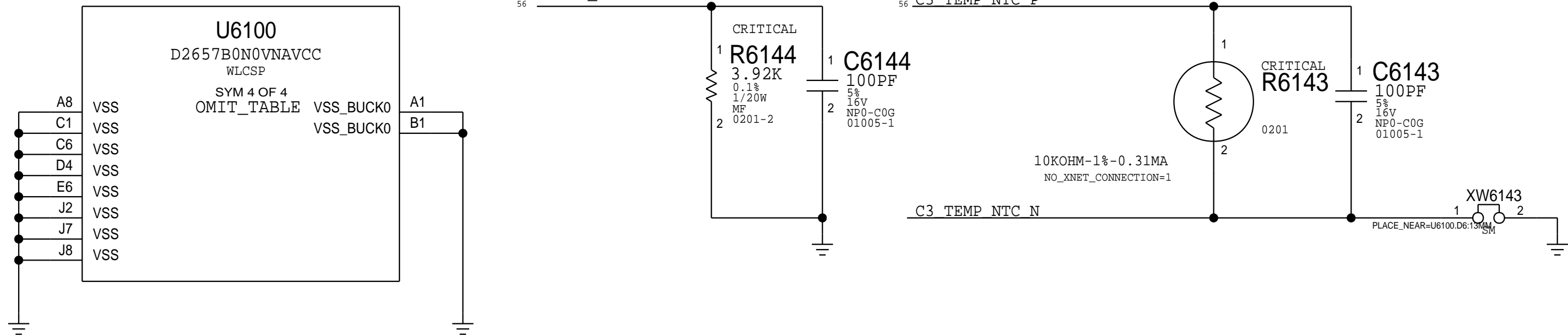
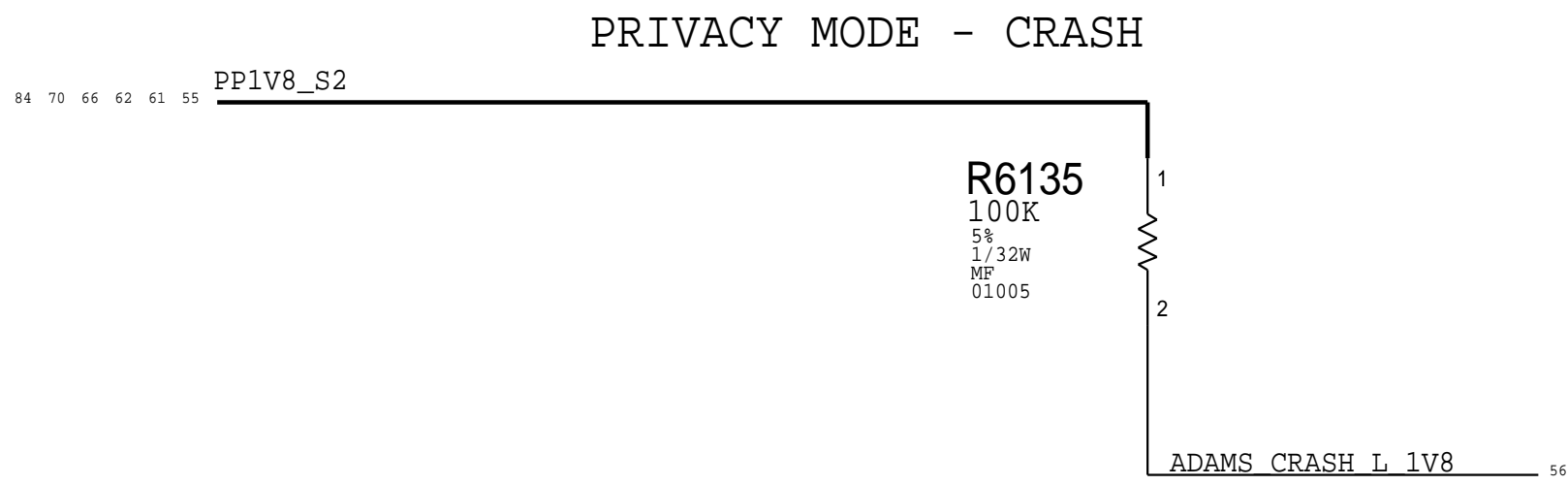
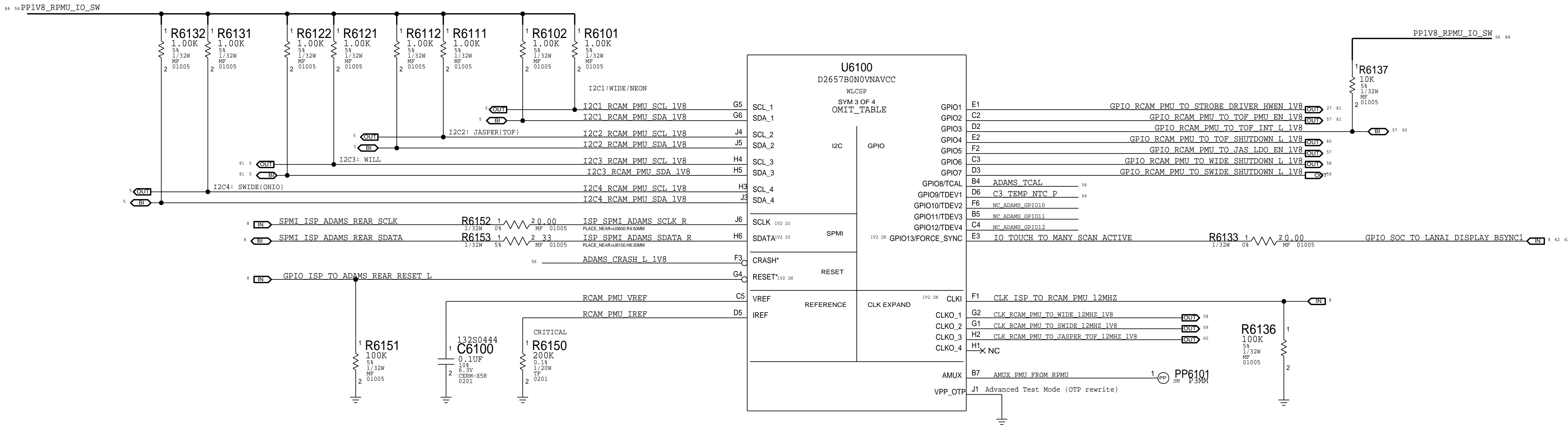


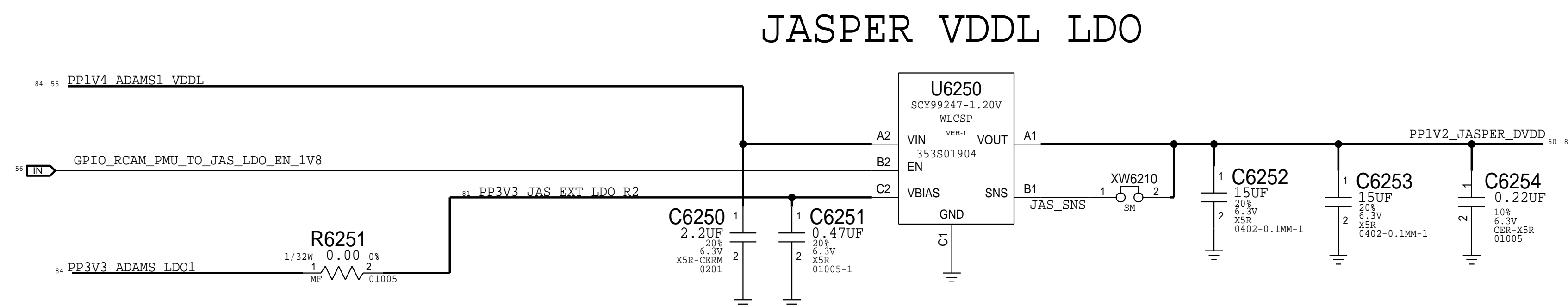
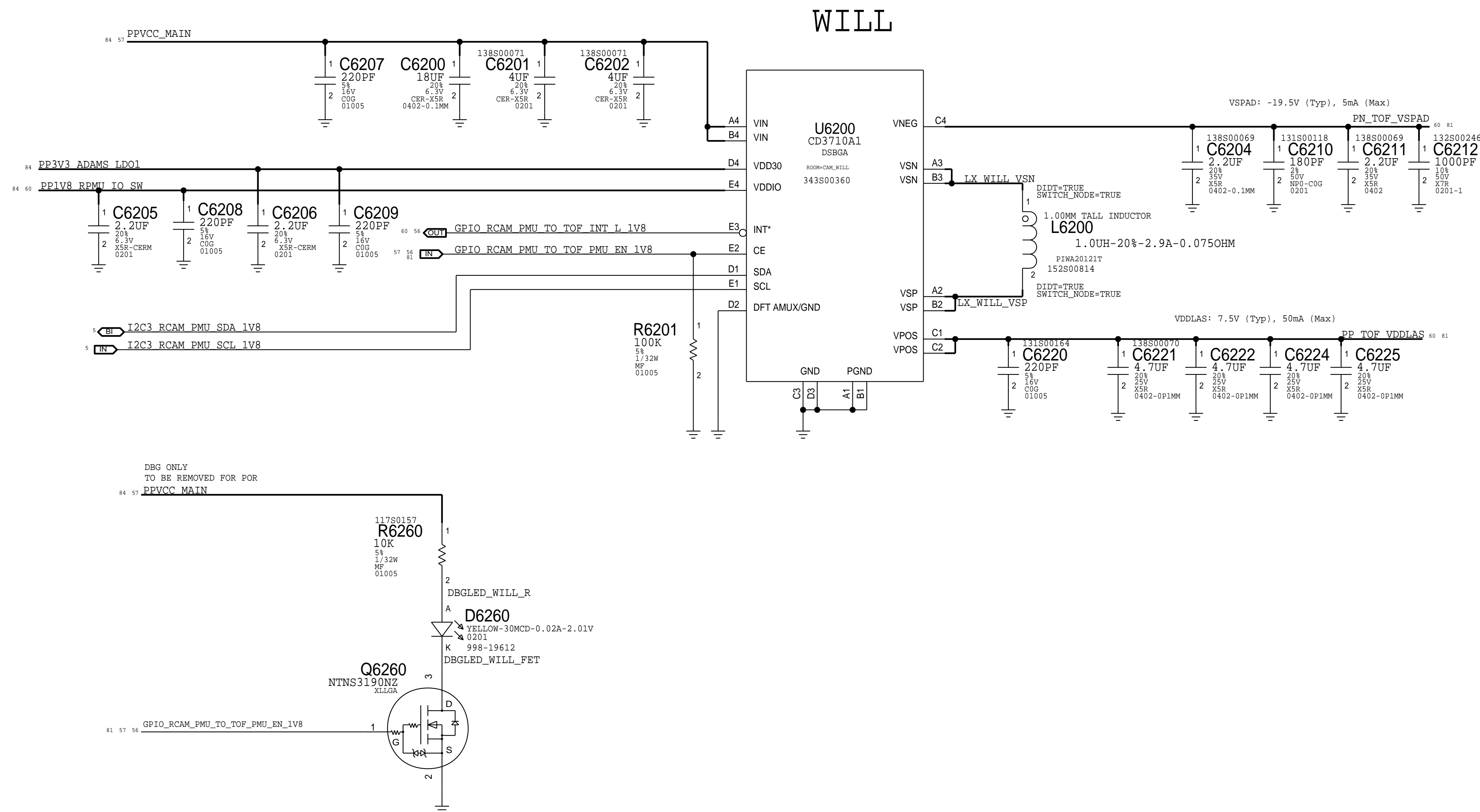
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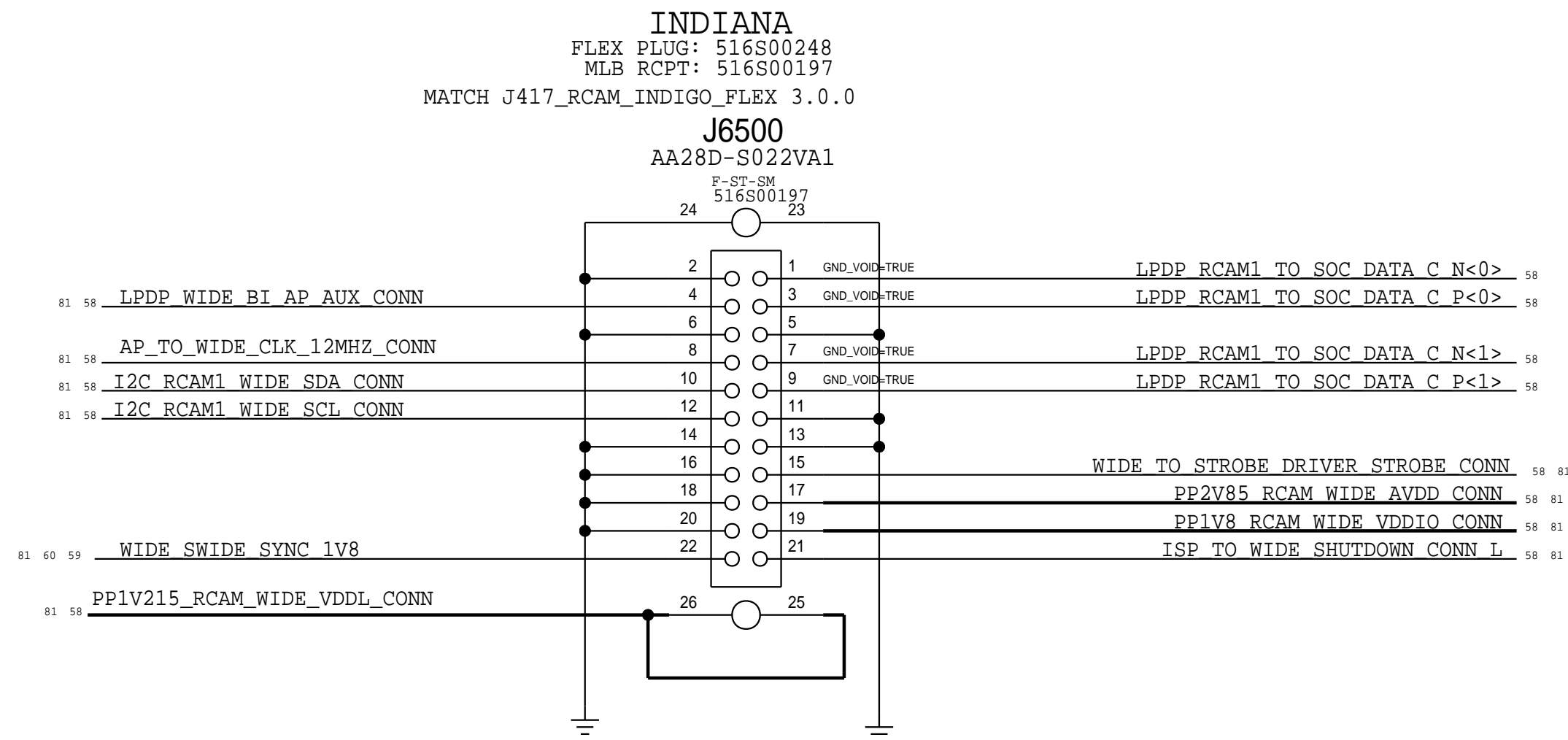
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CAMERA: ADAMS REAR POWER (1/2)

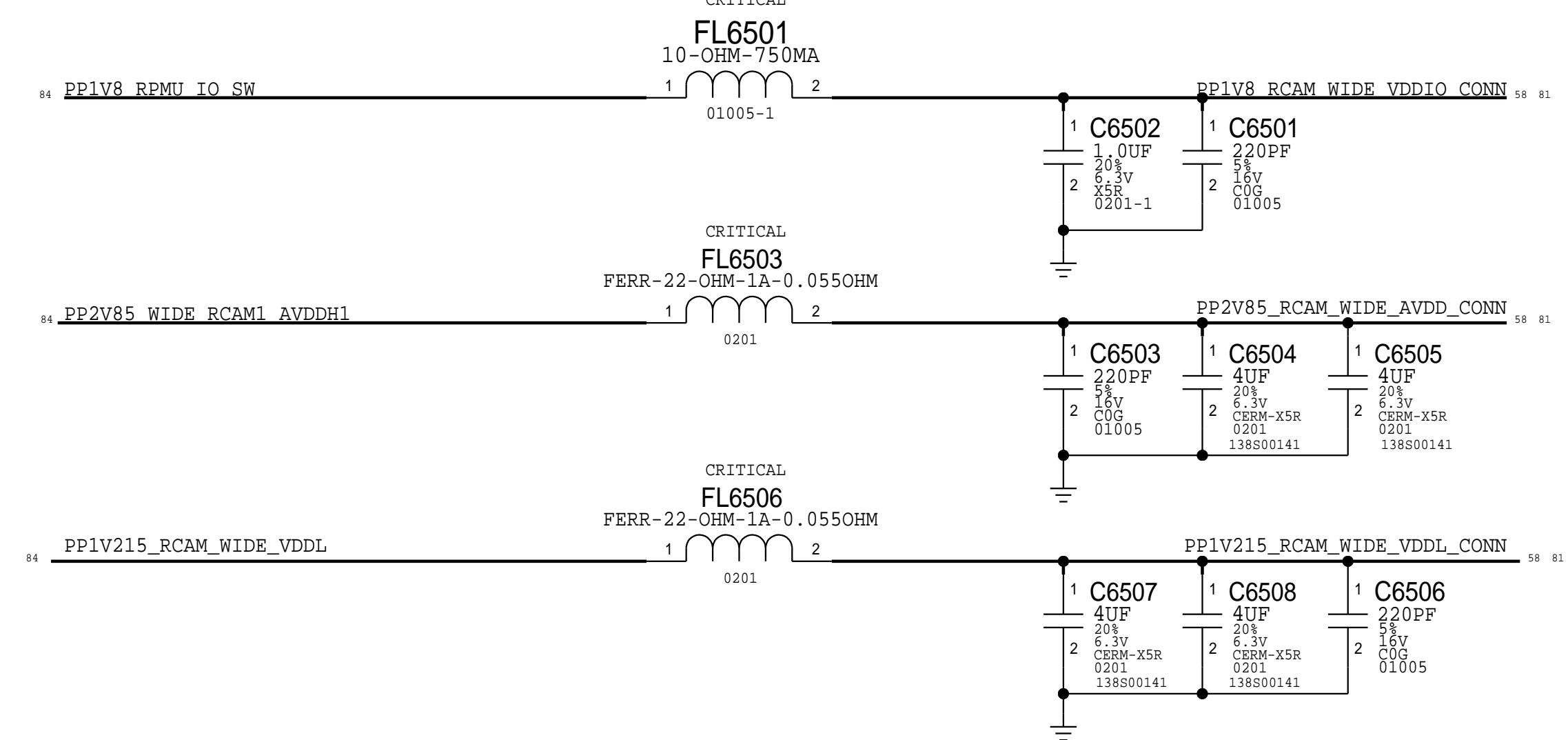
RCAM ADAMS PMU IO



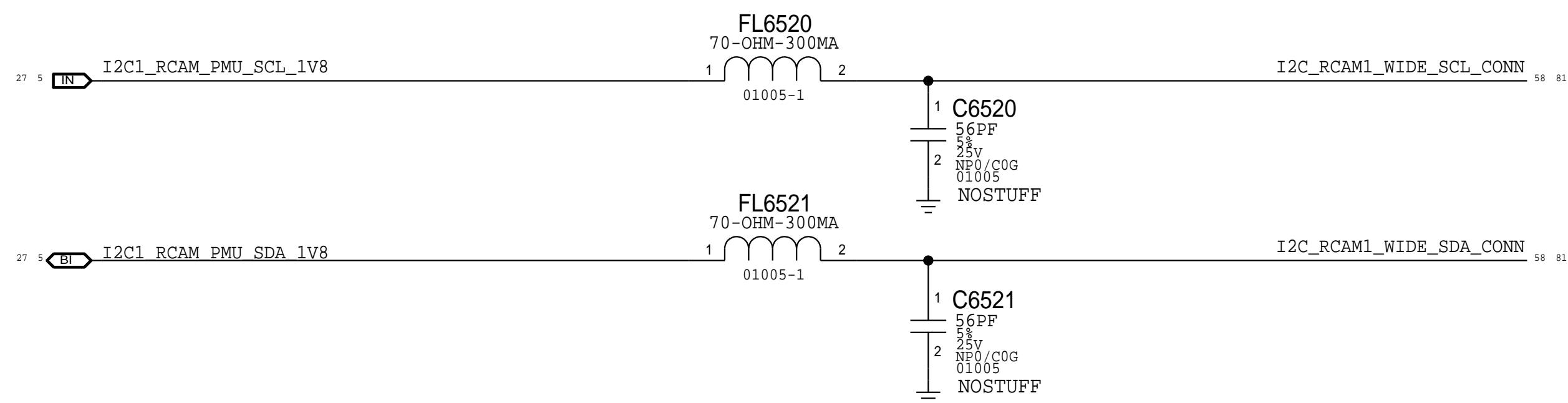




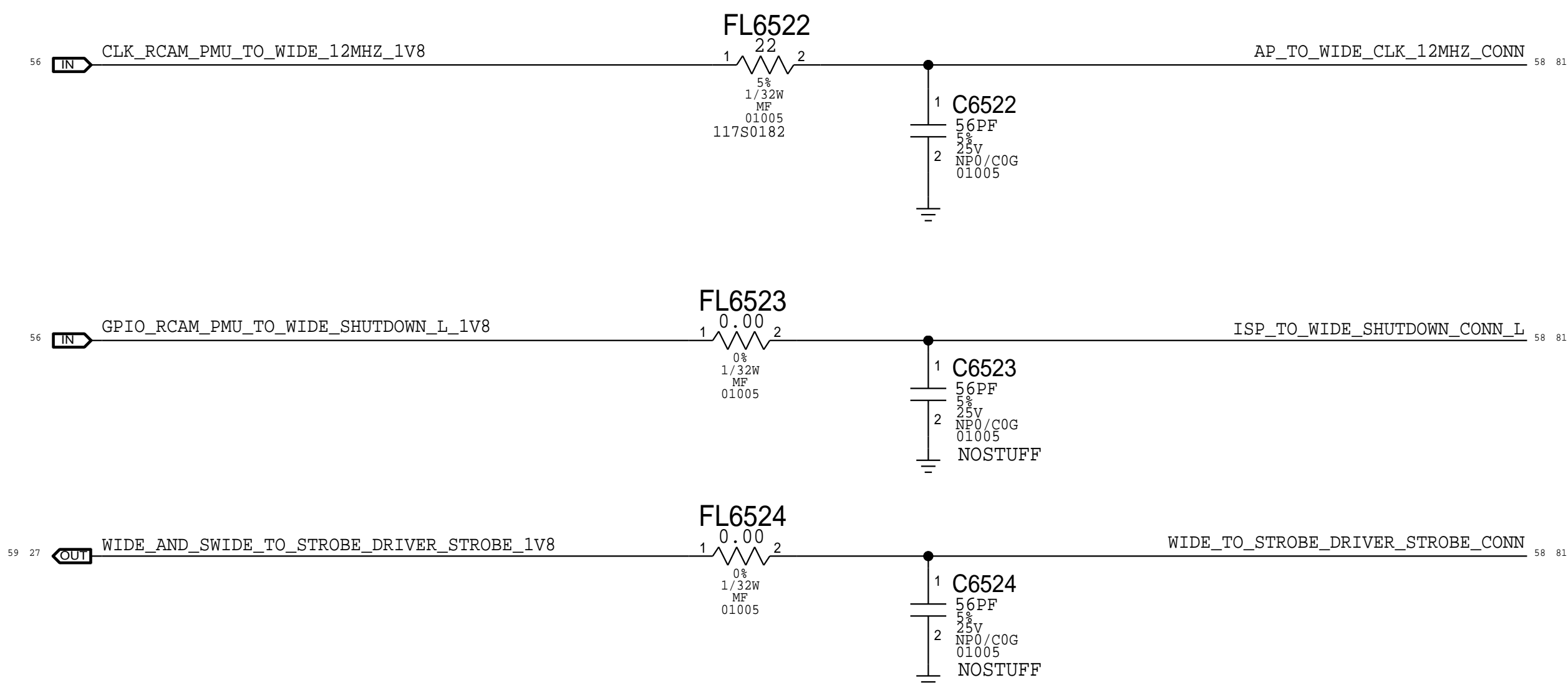
POWER FILTERING



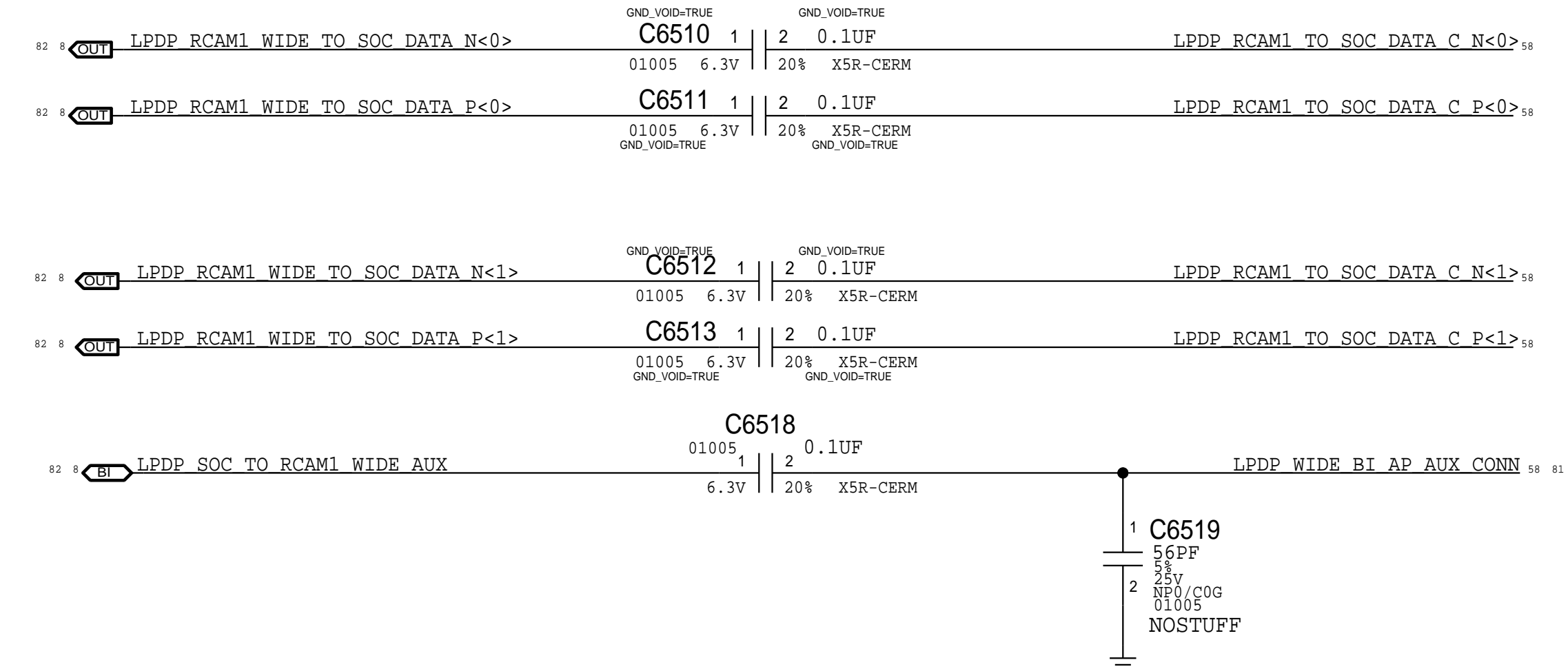
ISP I2C

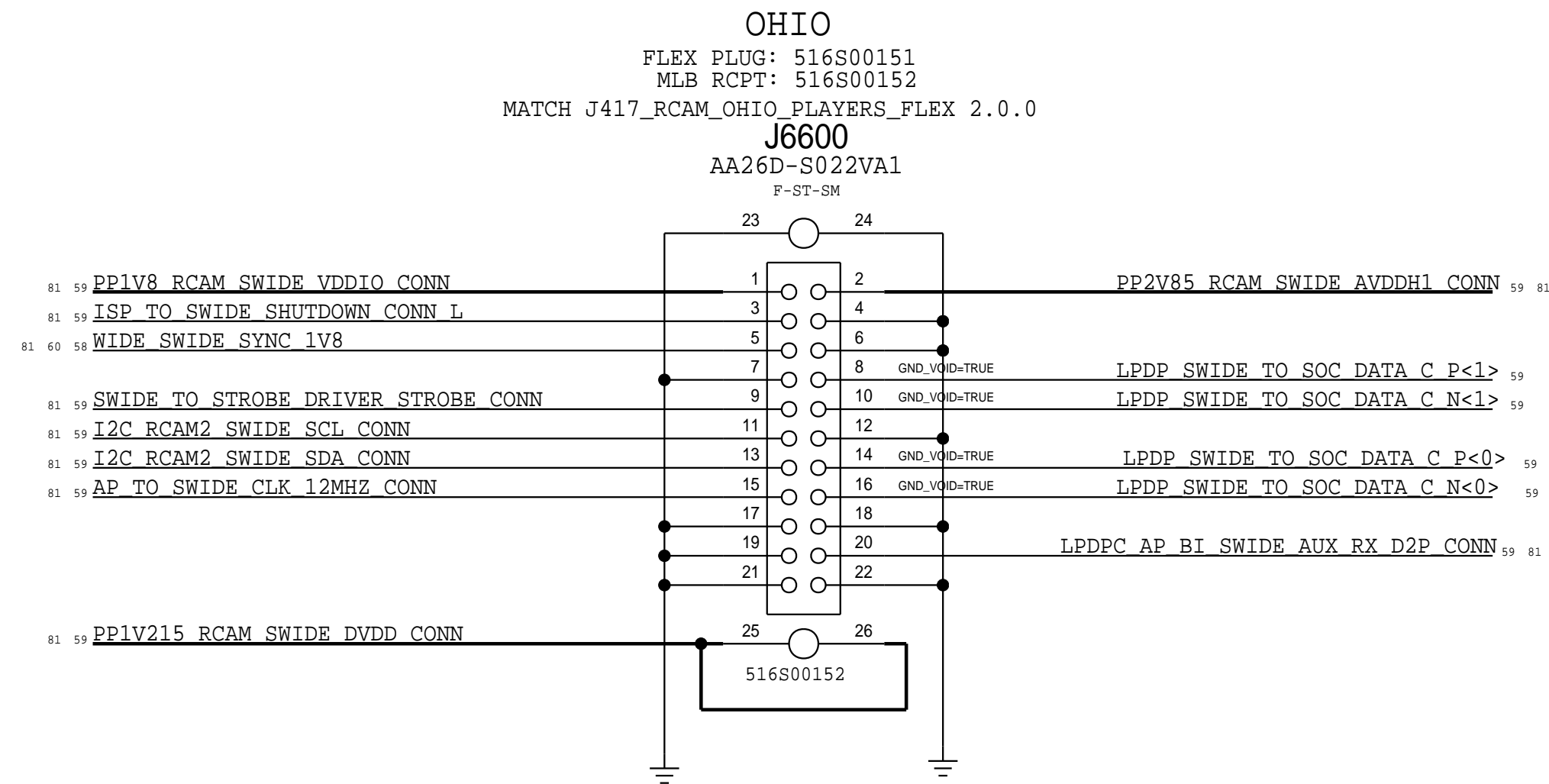


IO FILTERS

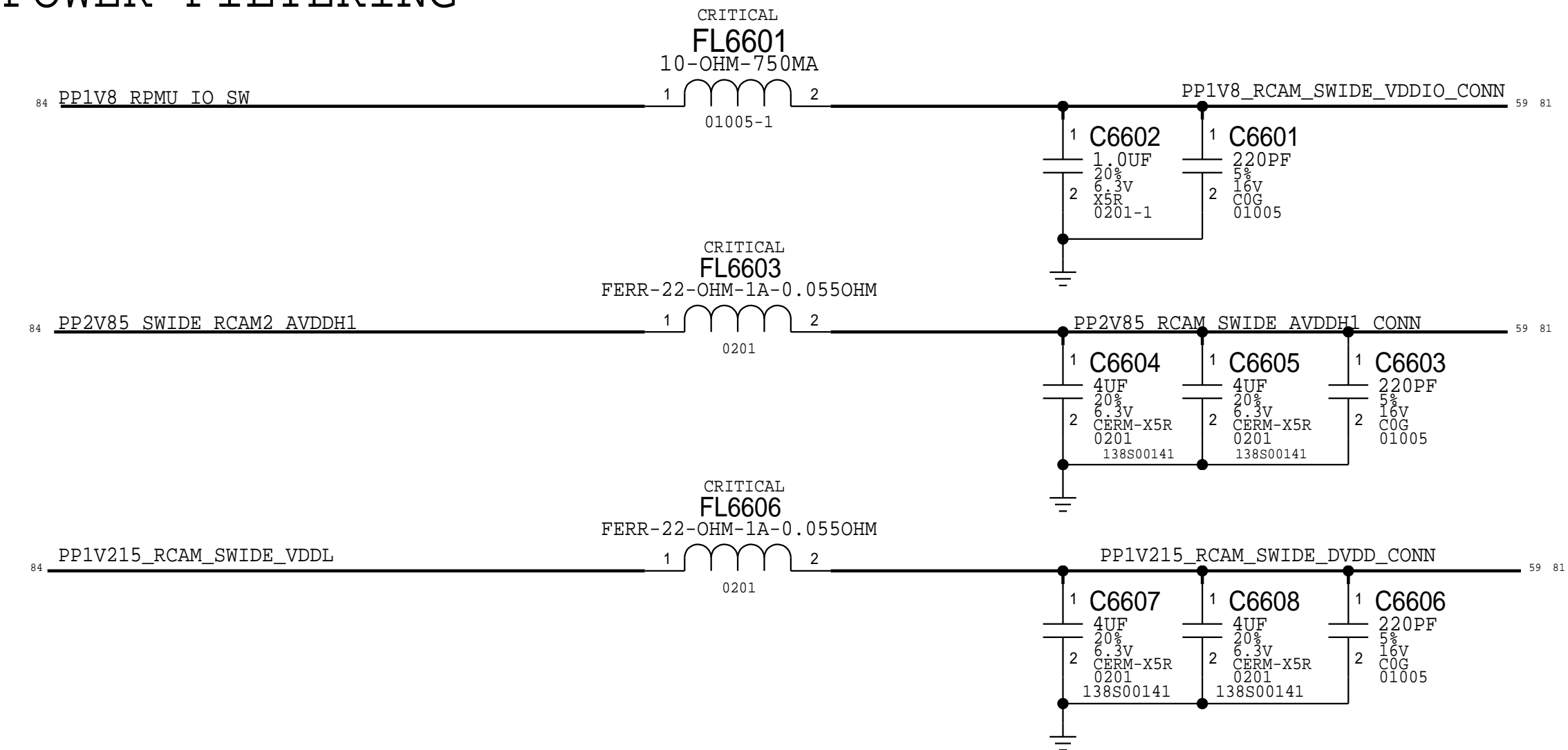


LPDP FILTERS

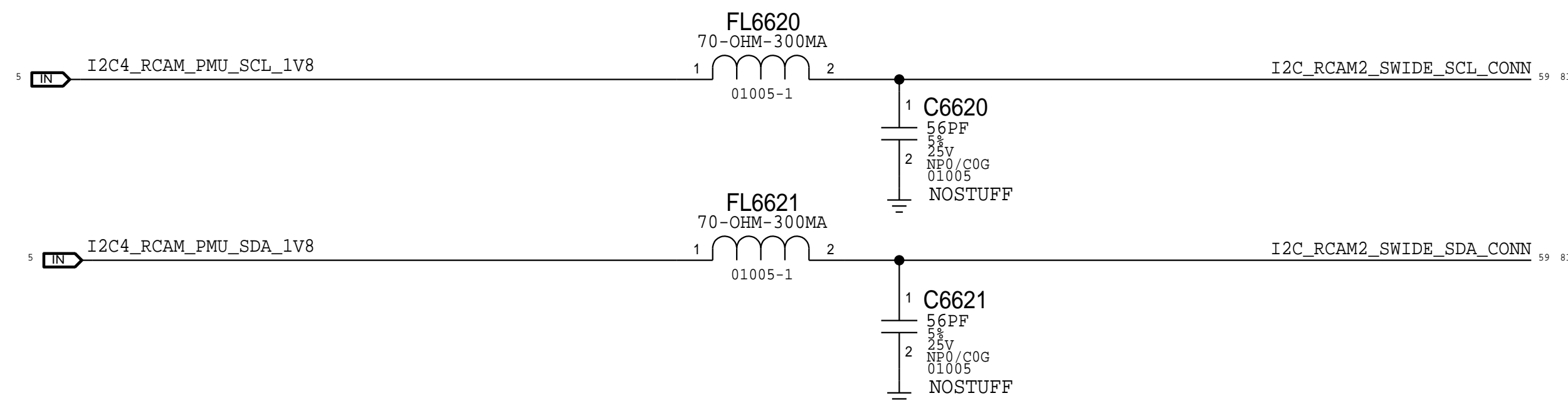




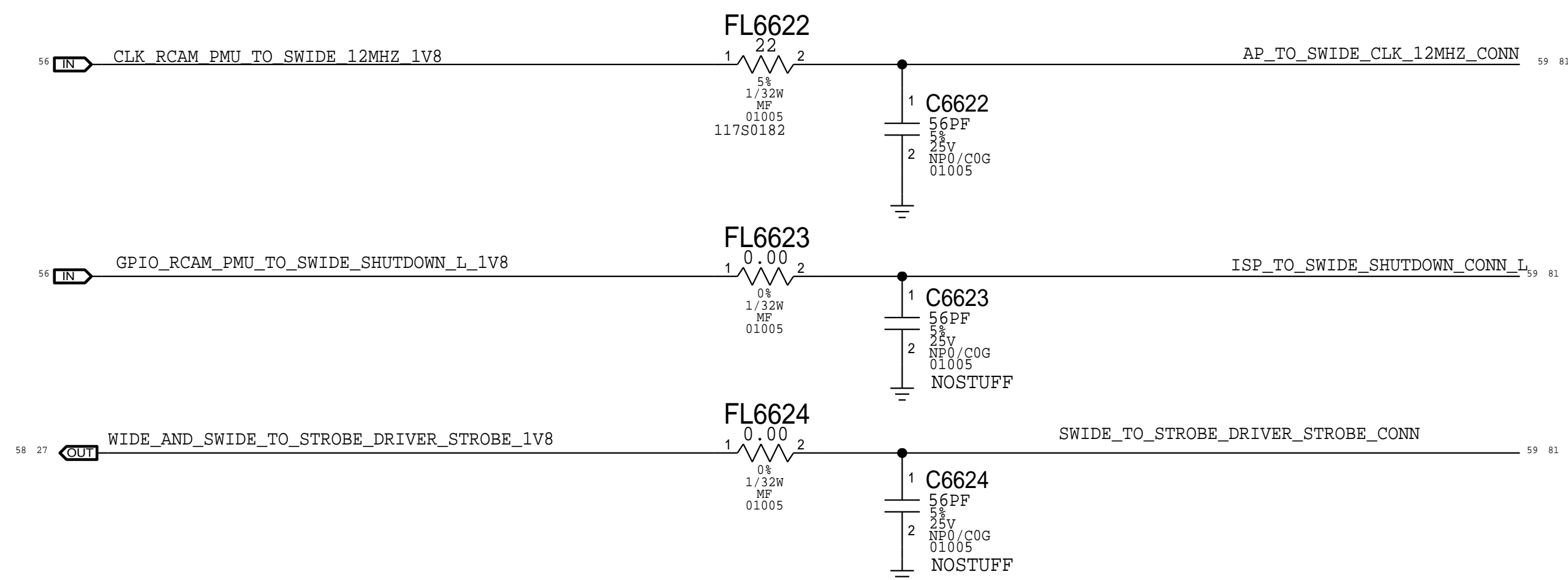
POWER FILTERING



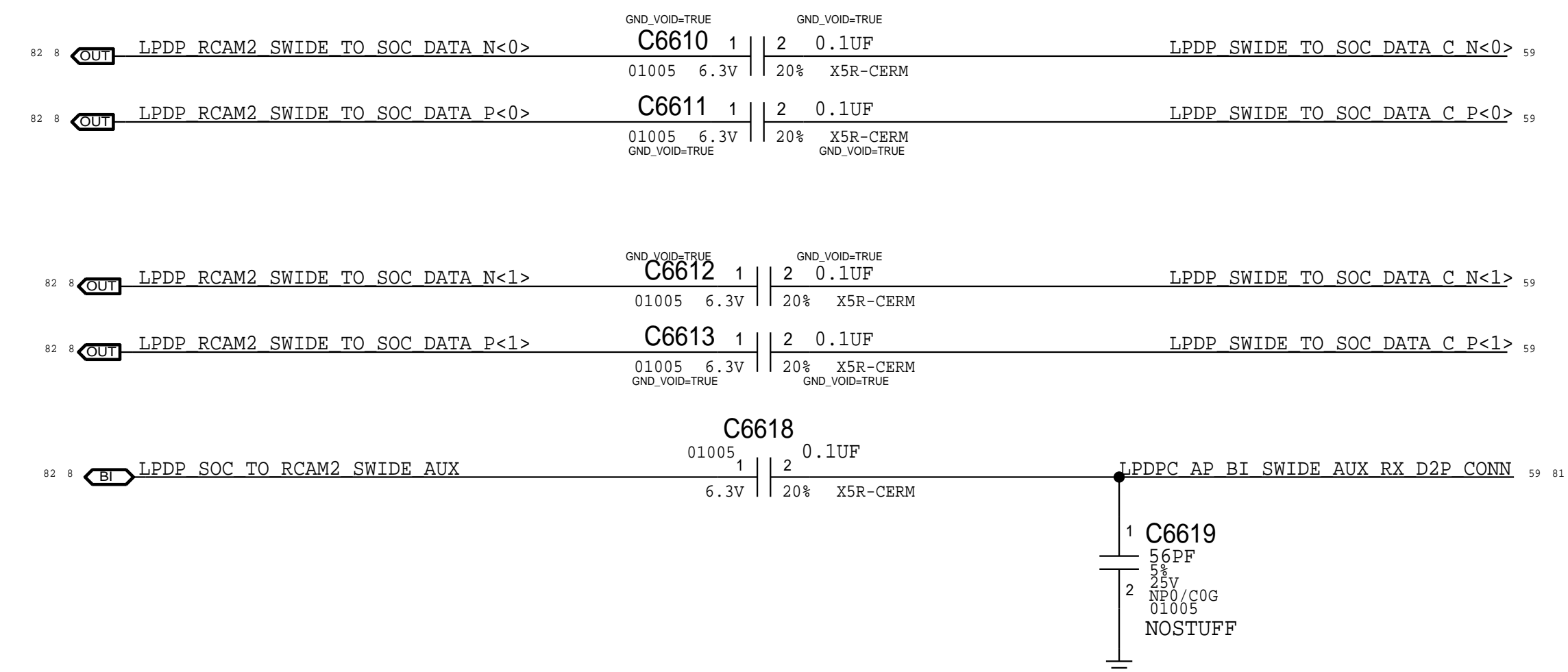
ISP I2C



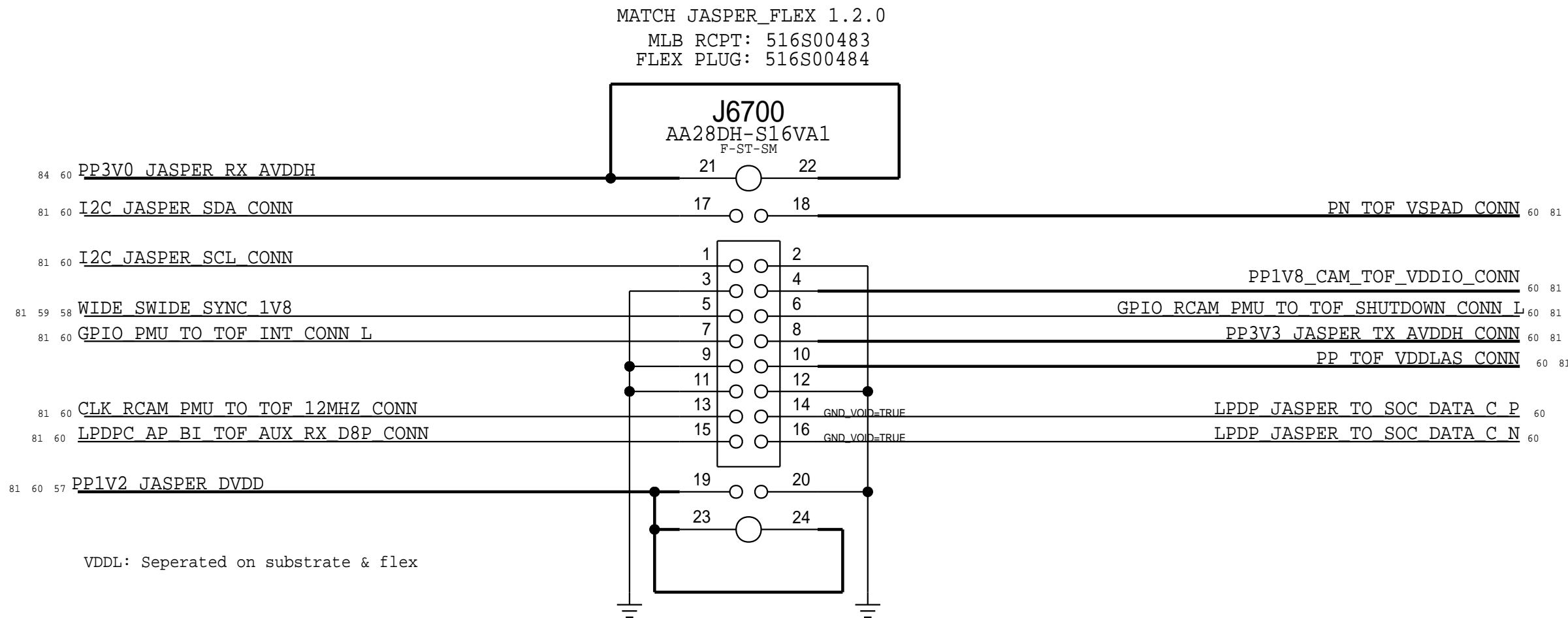
IO FILTERS



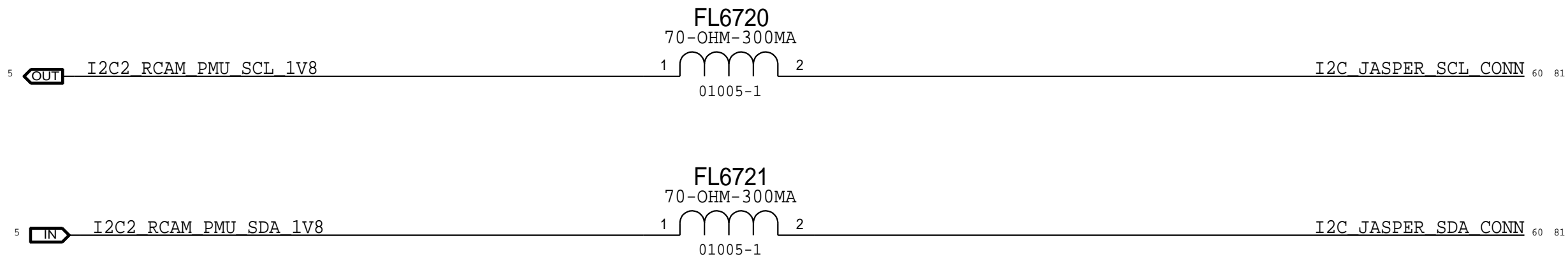
LPDP FILTERS



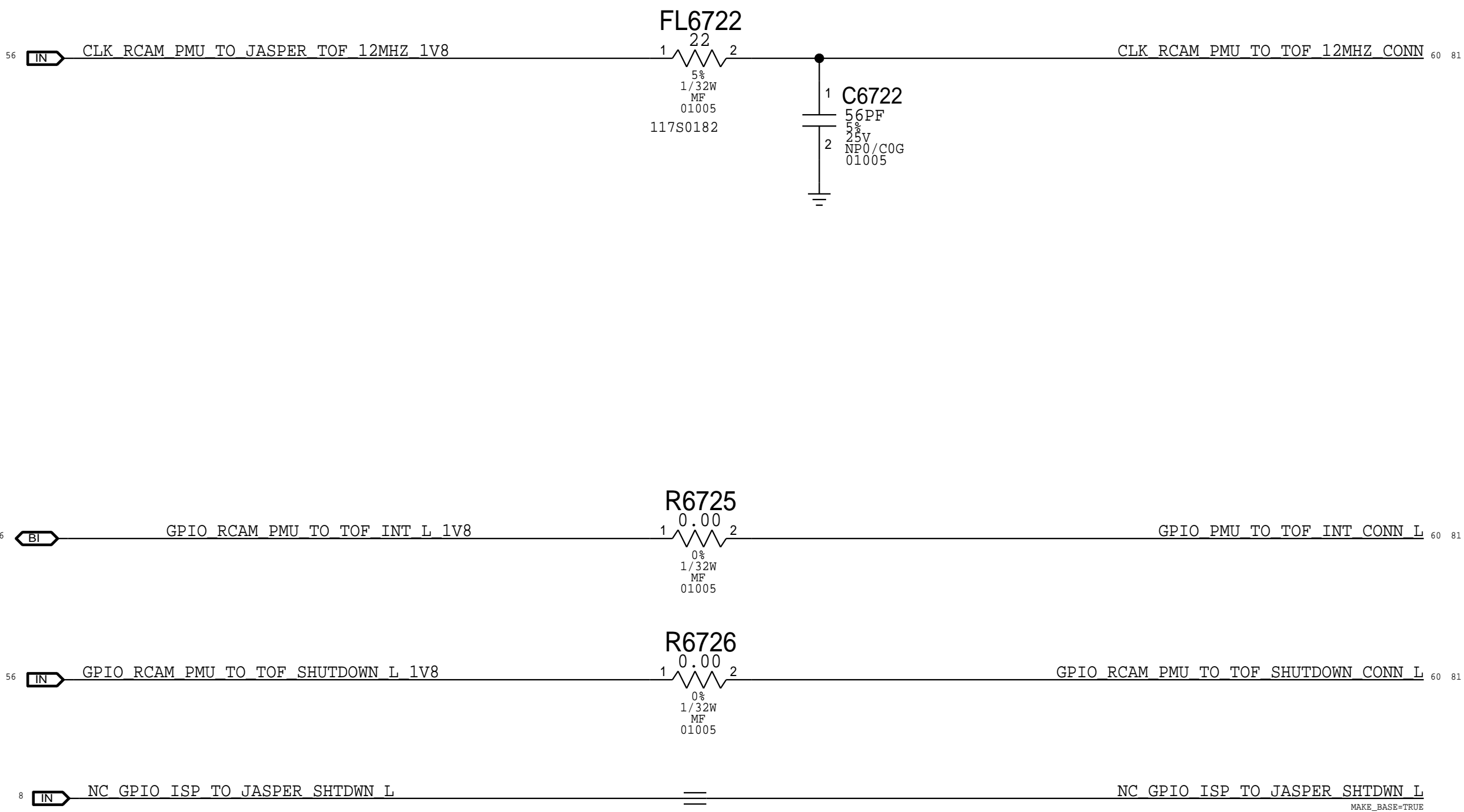
JASPER B2B



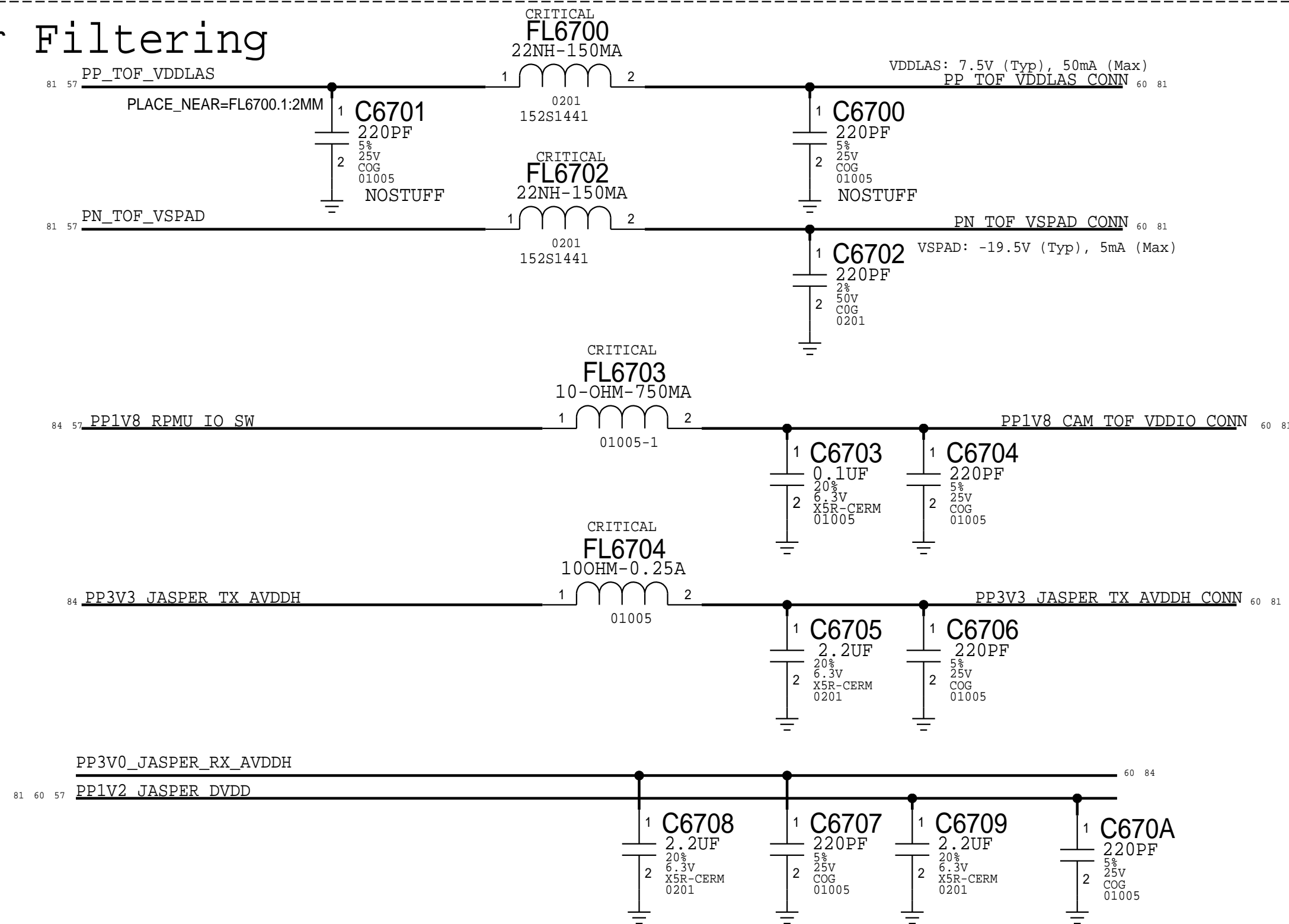
JASPER I2C



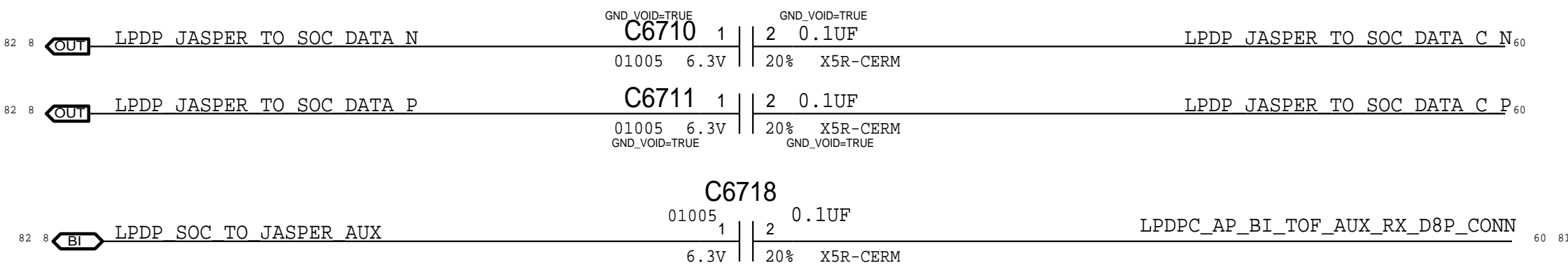
IO Filters



Power Filtering



LPDP Filters



CAMERA: B2B JASPER

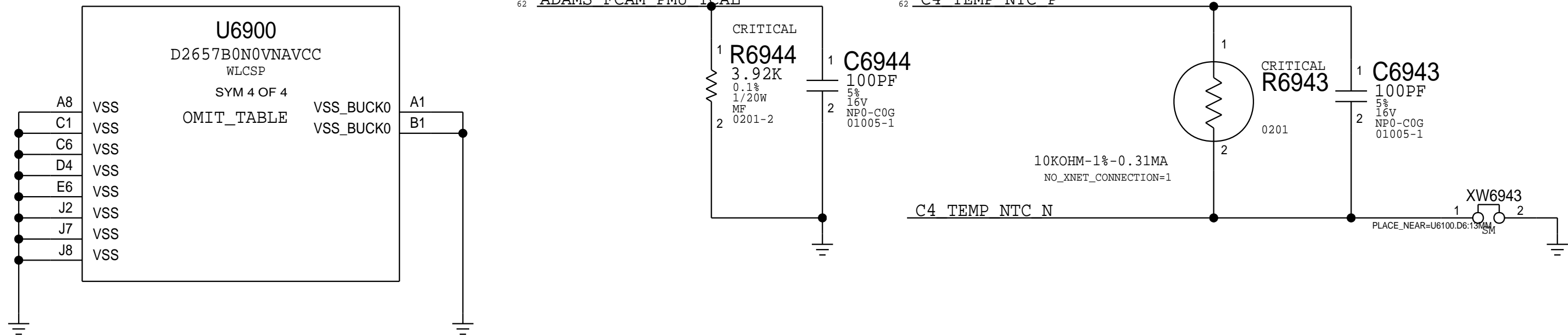
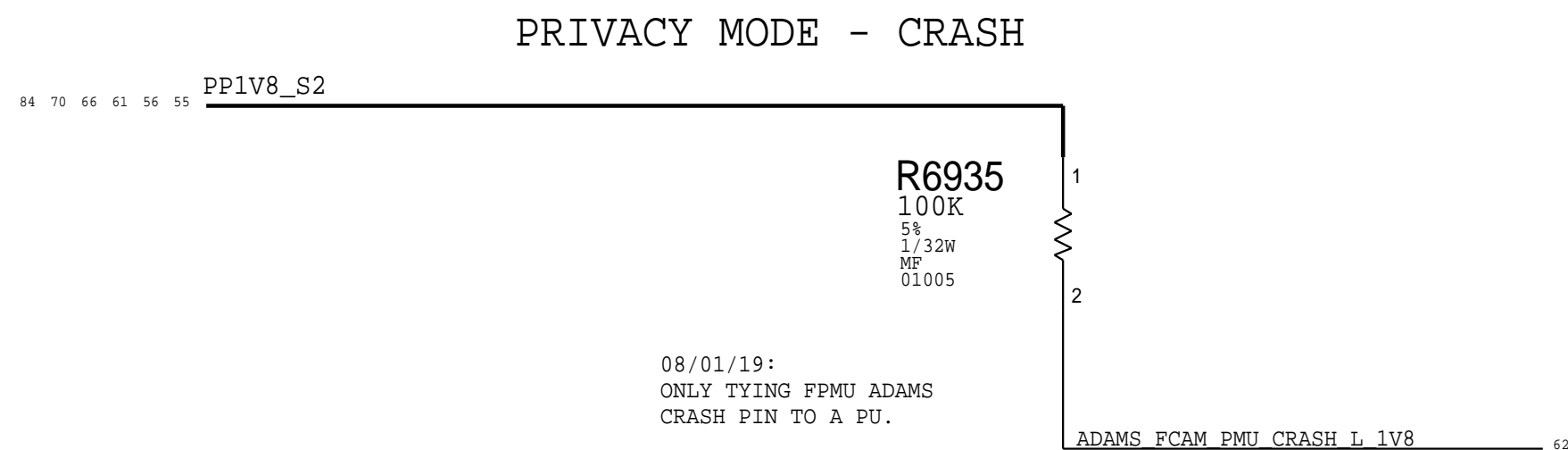
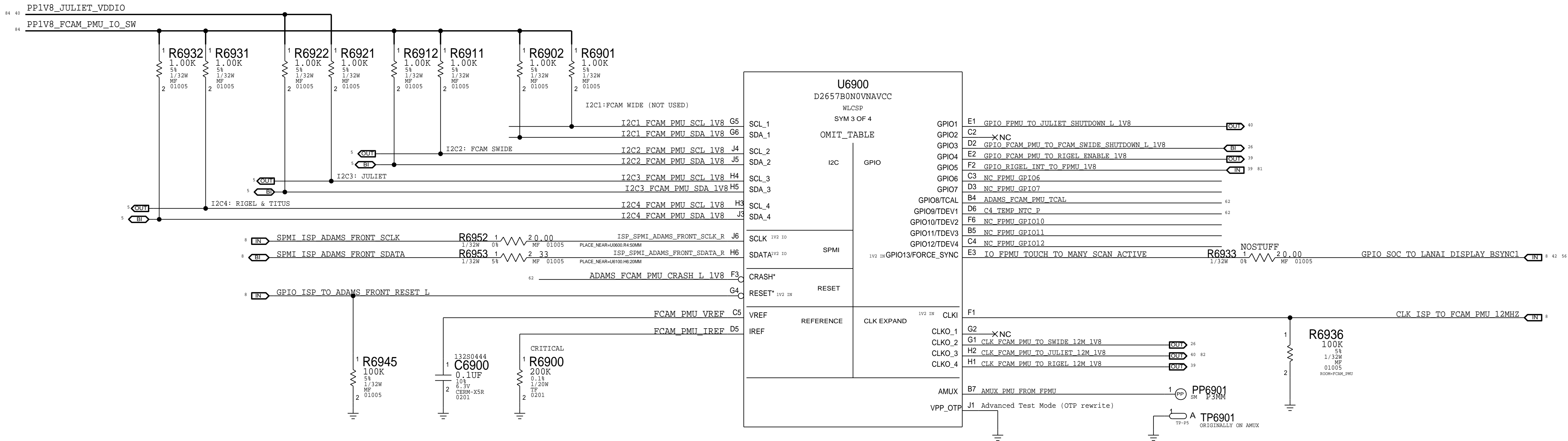
D



B

A

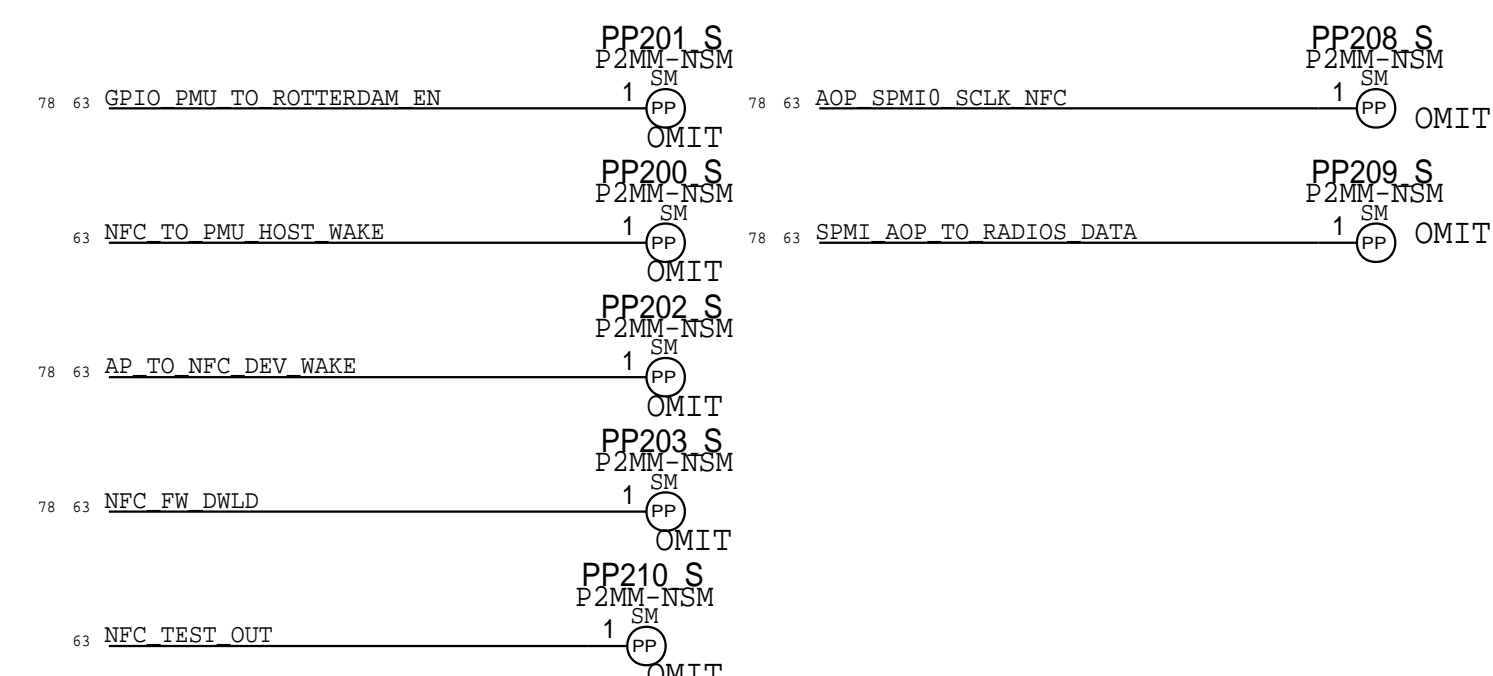
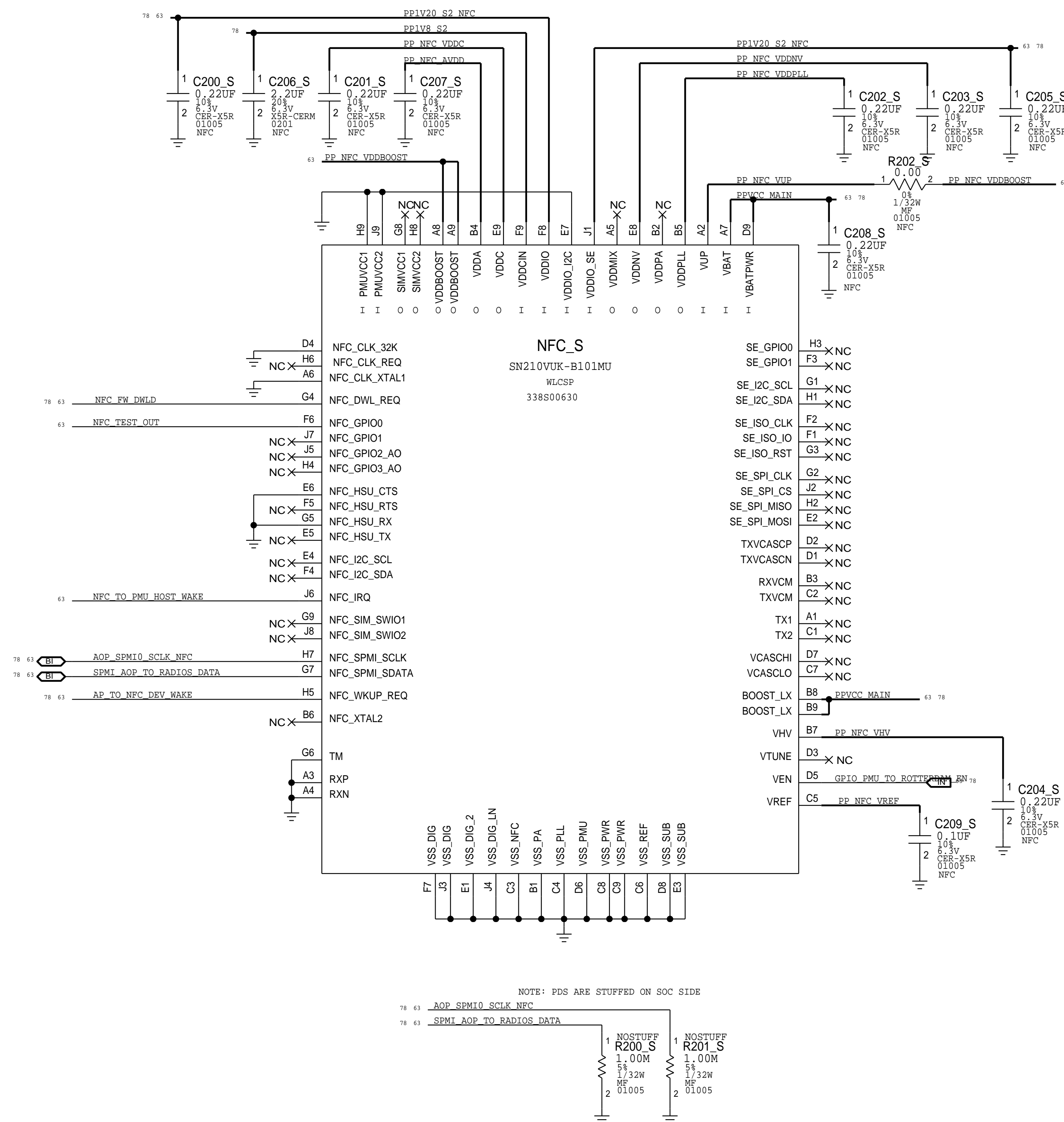
FCAM ADAMS PMU IO



STOCKHOLM

NFC CONTROLLER

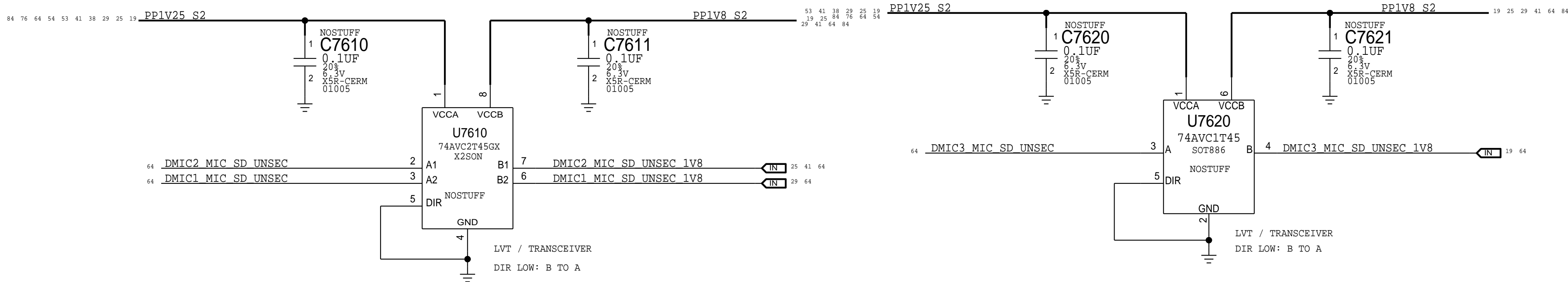
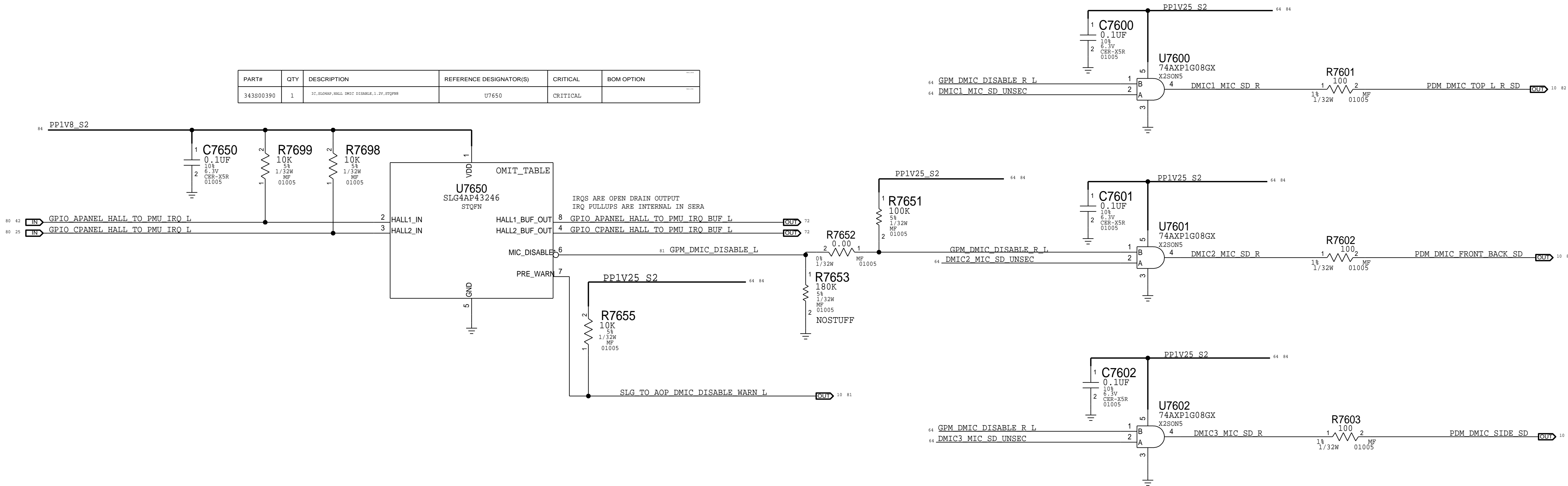
ID/NAME	NET RULE ASSIGNMENT	
	CONSTRAINT SET	COMMA SEPARATED NET NAMES (WILDCARD SUPPORT EX: DDR*)
PCP-25	P PWR_300UM	PP_NFC*



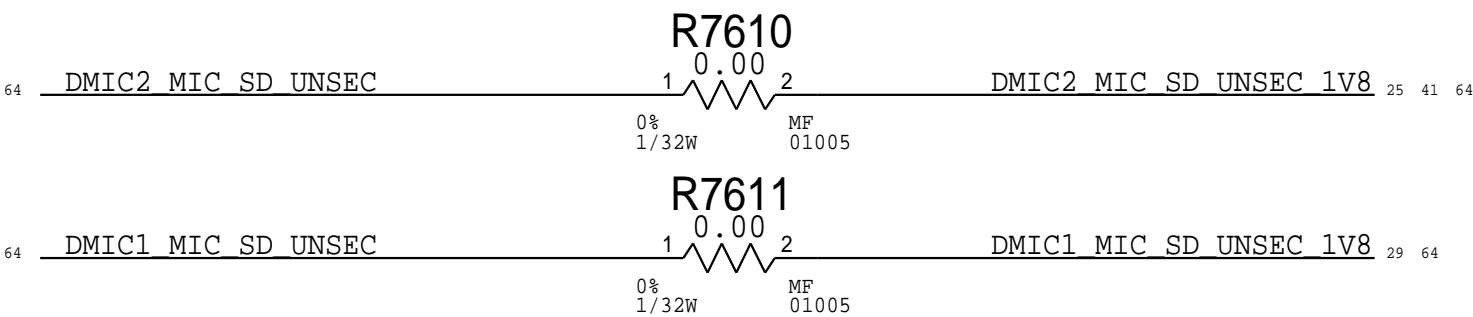
BOM_COST_GROUP=SECURE_ELEMENT	
PAGE TITLE	
NFC	

GPM: DMIC GATING

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



SENTRY JUMPERS



SENTRY JUMPER



PAGE TITLE	
GPM	

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	

D

C

B

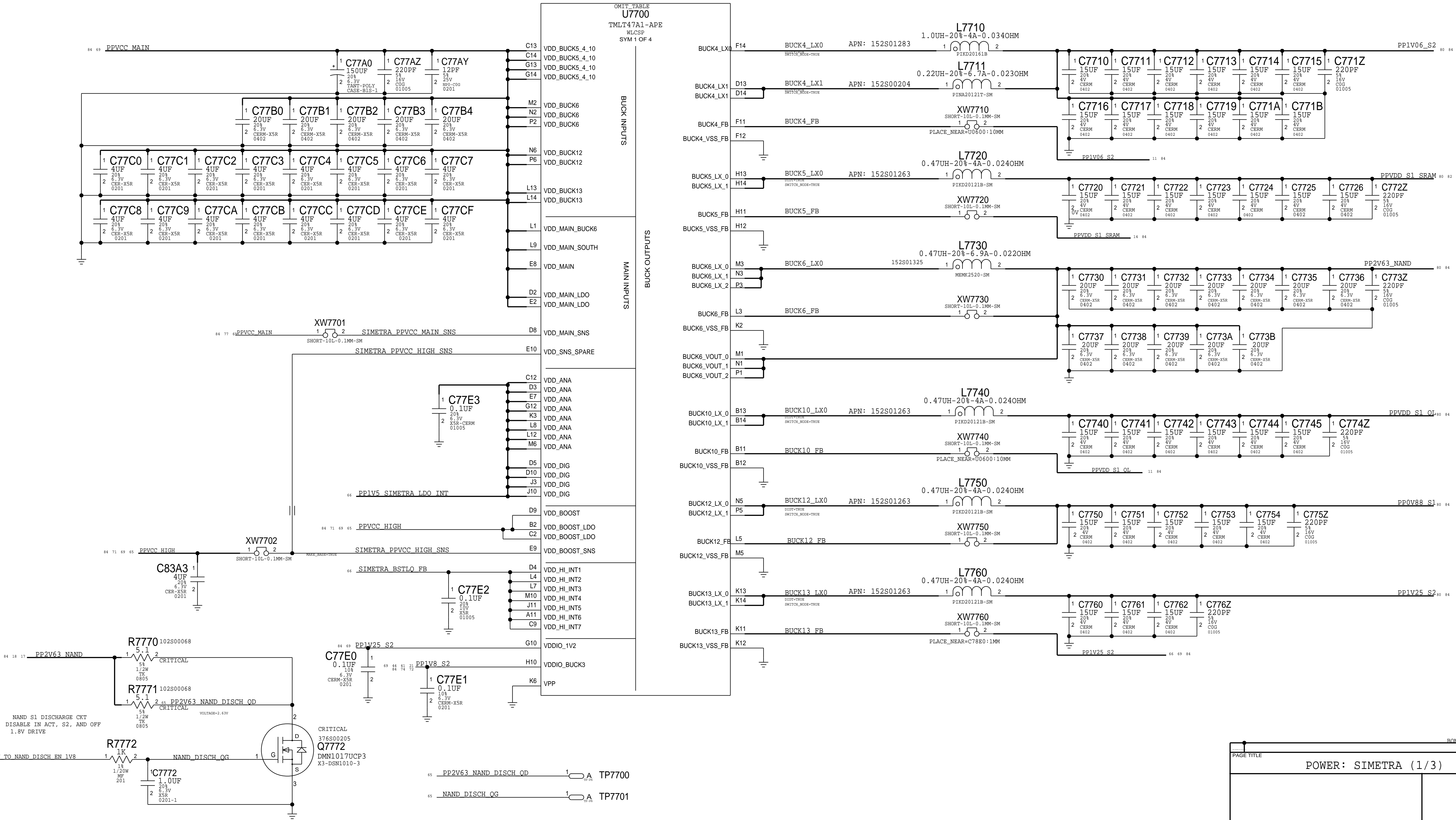
A

D

C

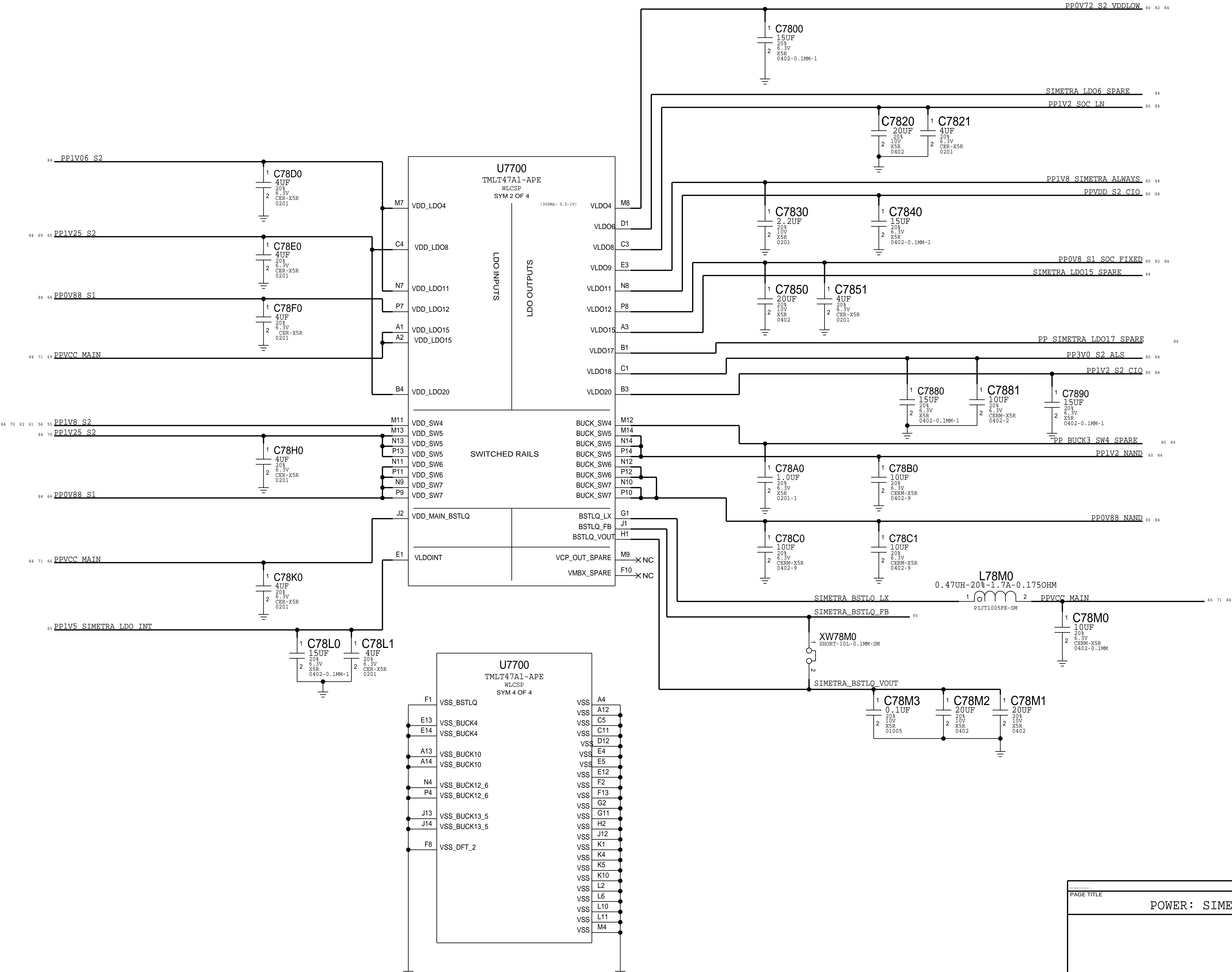
B

A

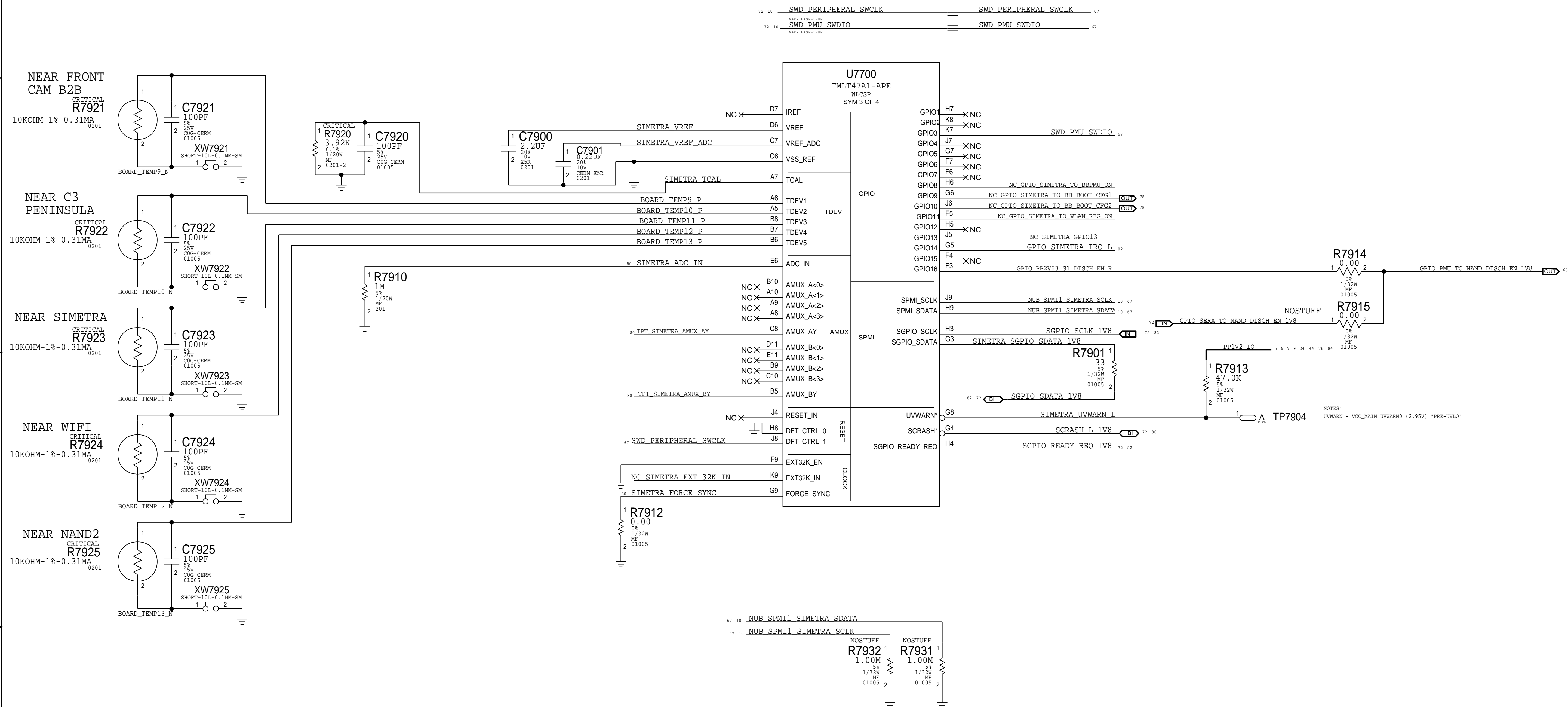


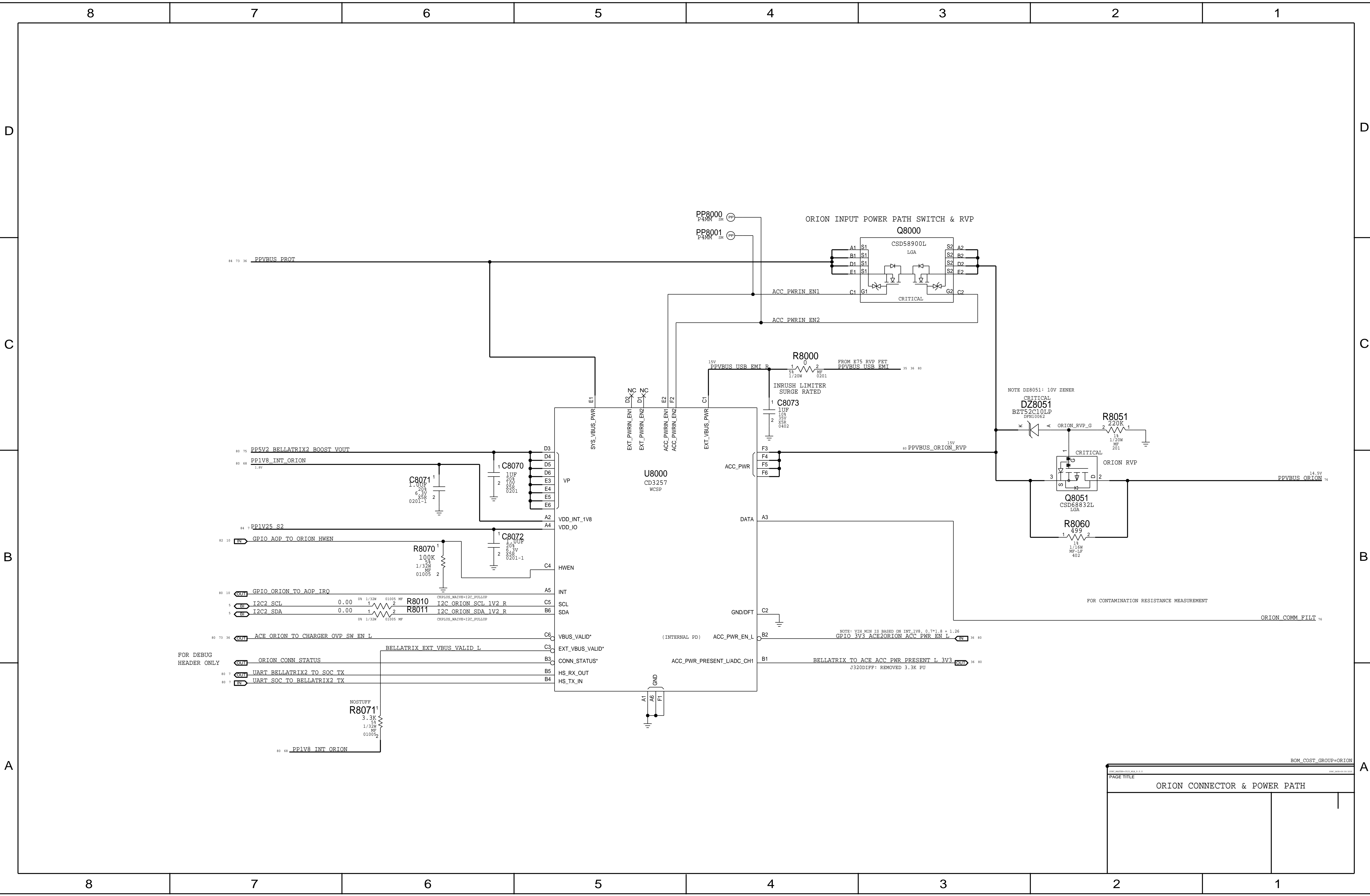
PAGE TITLE	
POWER: SIMETRA (1/3)	
BOM COST GROUP=POWER	

SIMETRA PMU (2/3)

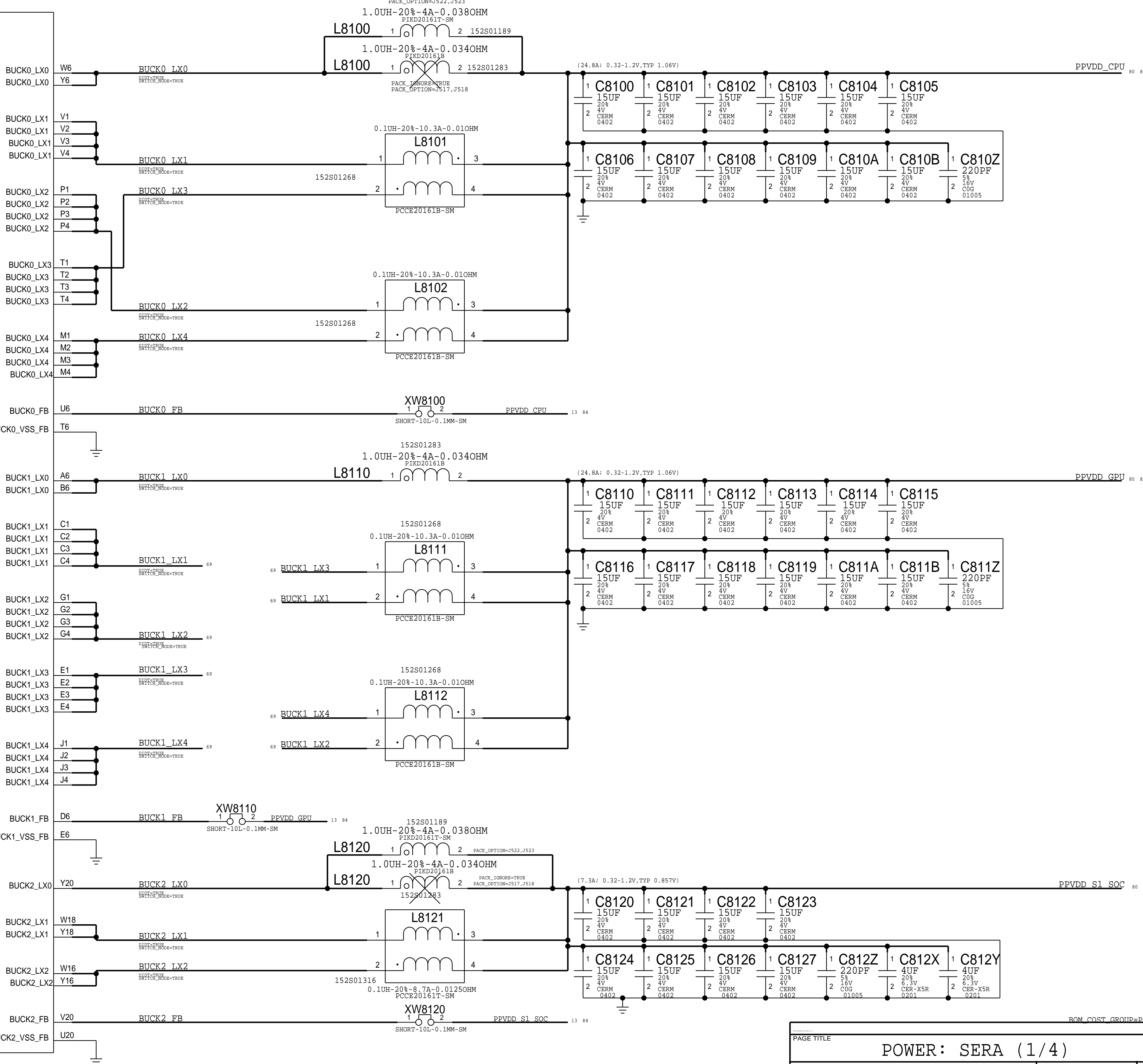


SIMETRA PMU (3/3)



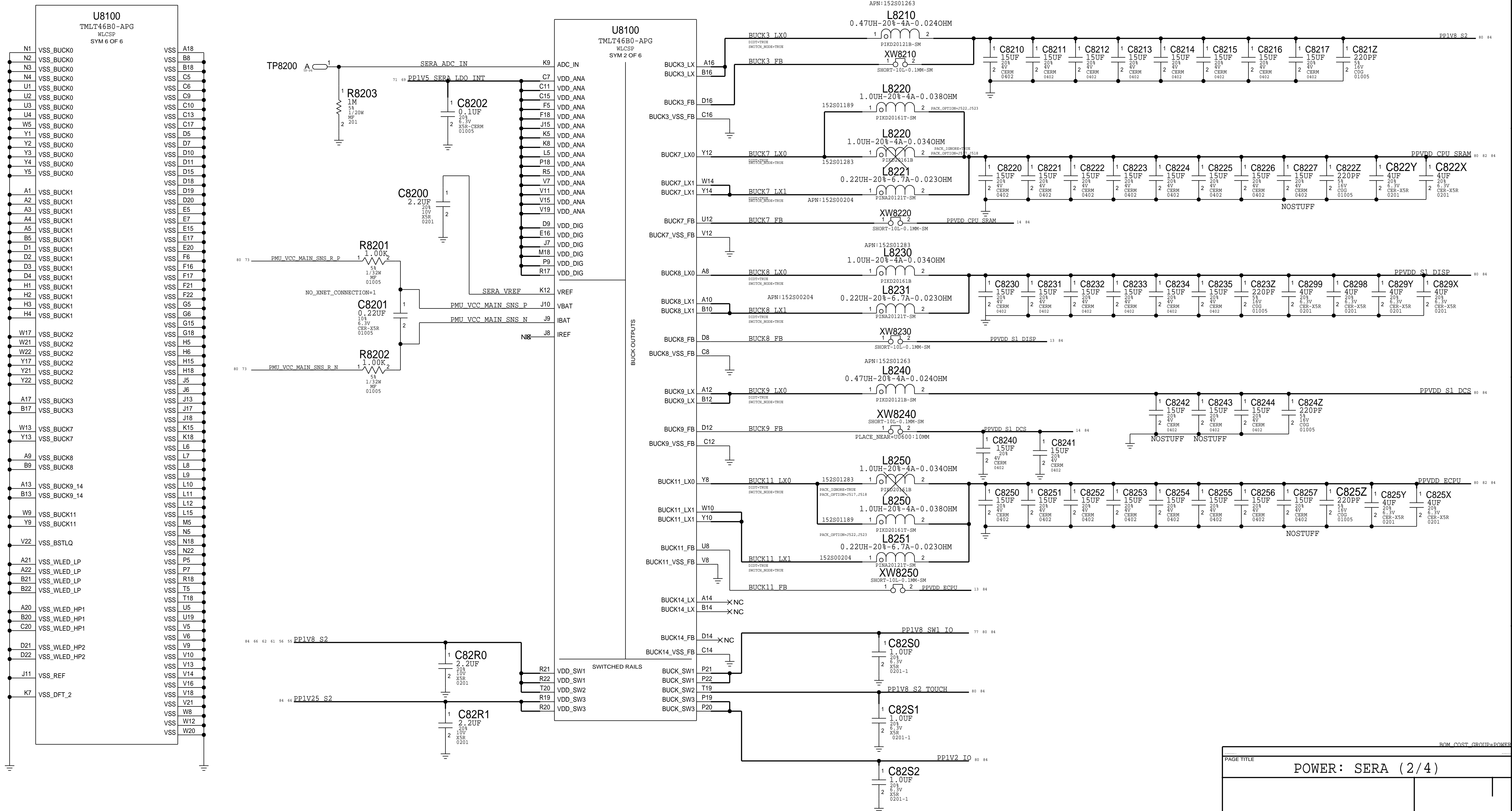


PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S01317	152S01268		LA101 ETC.	ALTERNATE IND

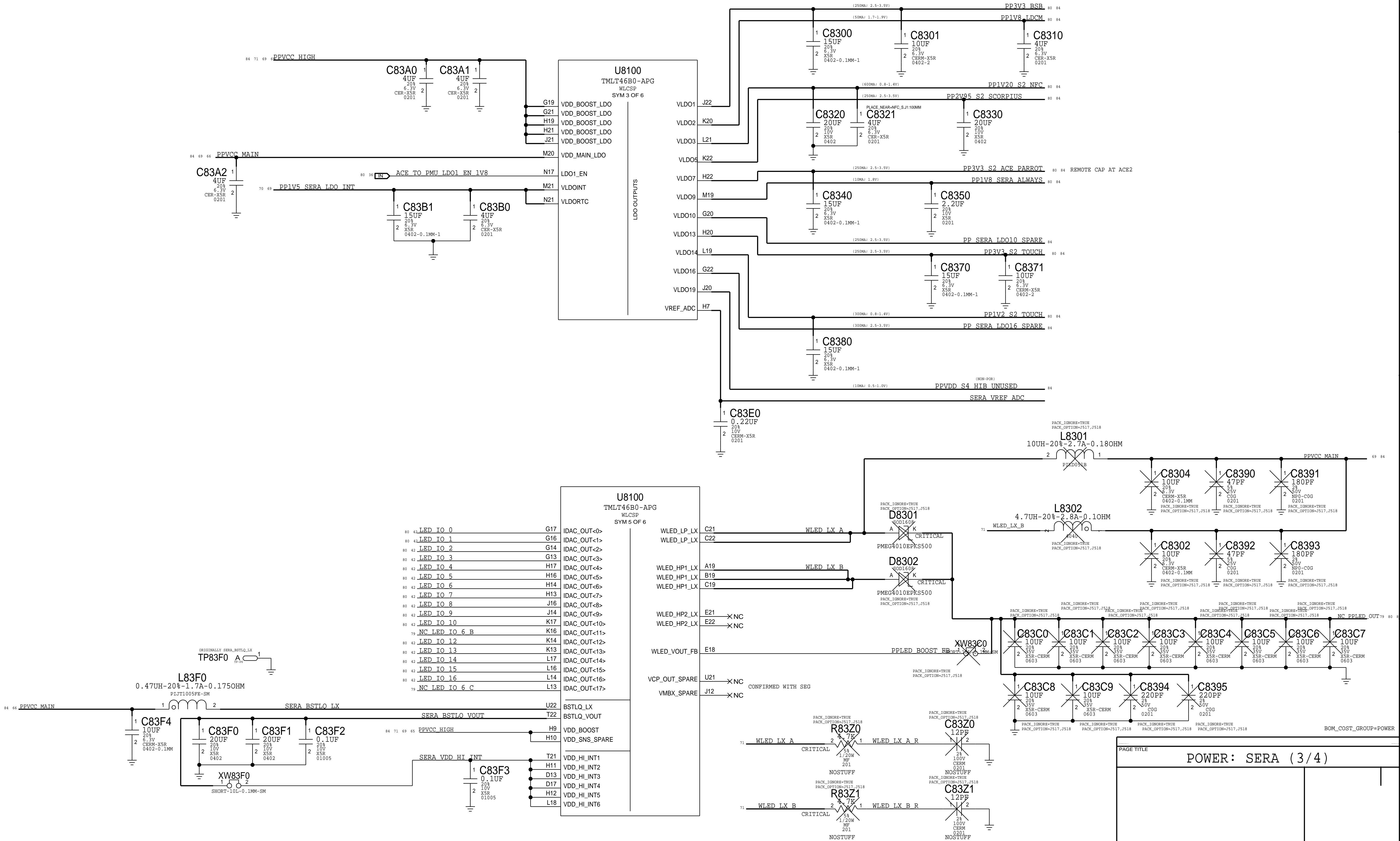


PAGE TITLE		POWER: SERA (1/4)	

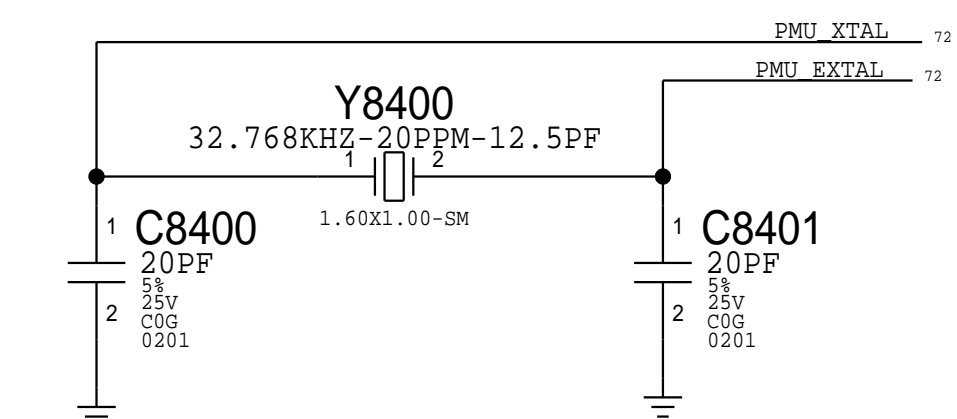
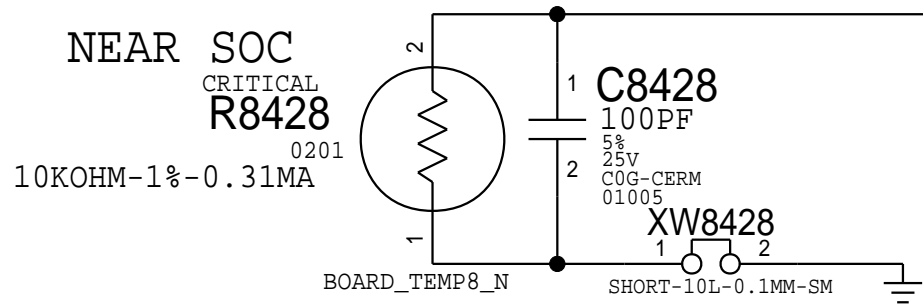
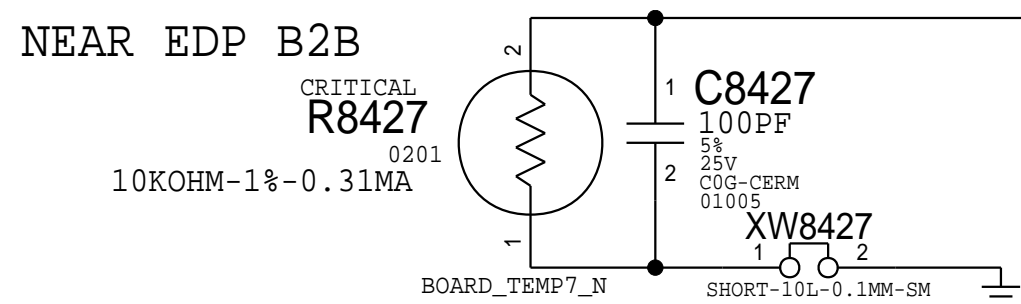
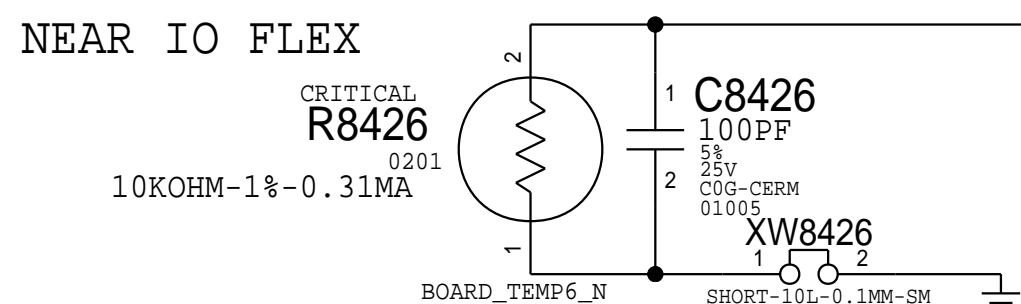
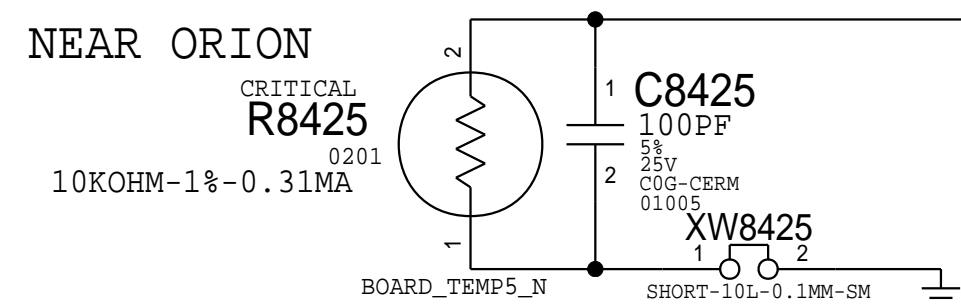
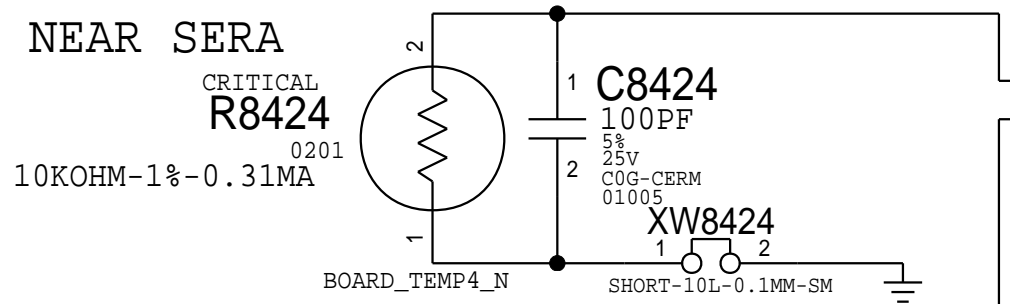
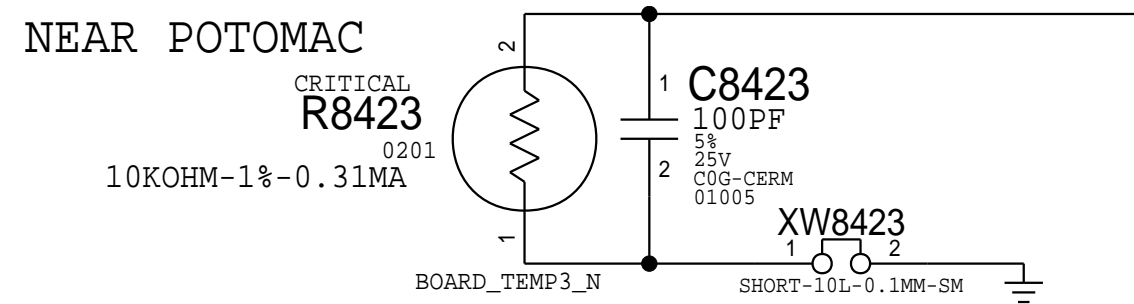
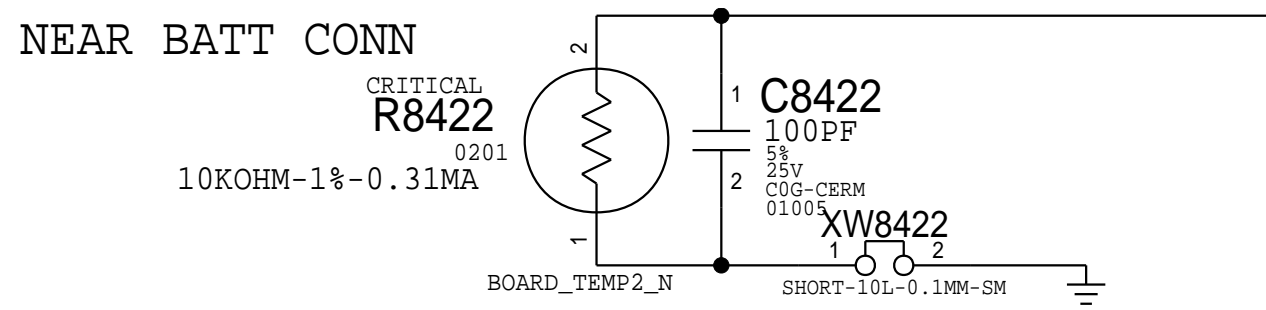
SERA BUCKS (2 / 4)



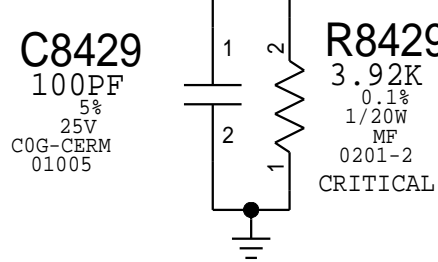
SERA LDO/WLED (3/4)



SERA GPIOs (4/4)



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



BOARD_TEMP2_P
BOARD_TEMP3_P
BOARD_TEMP4_P
BOARD_TEMP5_P
BOARD_TEMP6_P
BOARD_TEMP7_P
BOARD_TEMP8_P



GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_ONOFF_L_1V8
GPIO_BTN_VOL_UP_L_1V8
NC_GPIO_BTN_4

GPIO_SOC_TO_PMU_WDOG
GPIO_1V2_ACE2PMU_RESET
SOCHOT1_SOC_TO_PMU_L

NC
E9
E10

PMU_SHUTDOWN_1V8

PMU_XTAL
PMU_EXTAL

NC
F11
E12
NC
E11
NC
G12

TPT_SERA_AMUX_AY
DOMBRA_LDO_8V_PGOOD_FET

NC
F14
NC
F12
NC
F13
NC
G11

TPT_SERA_AMUX_BY

U8100
TMLT46B0-APG
WLOSP
SYM 4 OF 6

TDEV1
TDEV2
TDEV3
TDEV4
TDEV5
TDEV6
TDEV7
TDEV8

TCAL

TDEV

GPIO

BUTTON1
BUTTON2
BUTTON3
BUTTON4

RESET_IN1
RESET_IN2
RESET_IN3

VBUS_DET
BRICK_ID1
BRICK_ID2

SHDN

NXTAL_MEMS
XIN
XOUT

CRASH*
DFT_CTRL0
DFT_CTRL1

SYS_ALIVE

ACTIVE_READY

REQUEST_DFU

CPU_TRIGGER0*
CPU_TRIGGER1*
GPU_TRIGGER0*
GPU_TRIGGER1*
UVWARN*
VDD_BOOST_UVLO*

THROTTLE

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

SWD_PERIPHERAL_SWCLK

SWD_PMU_SWCLK

SWD_PMU_SWCLK

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

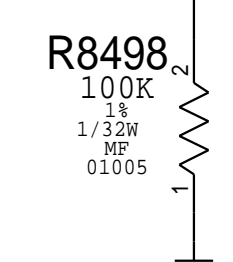
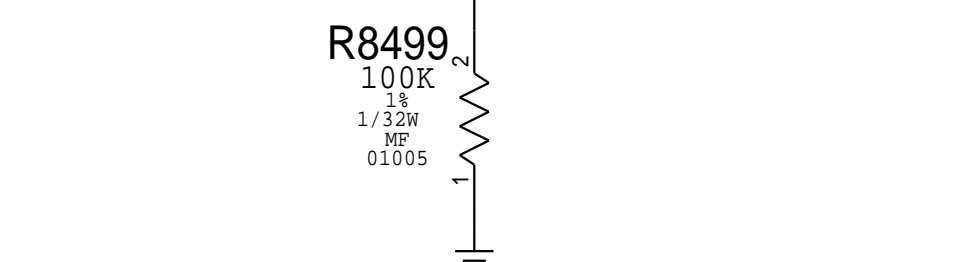
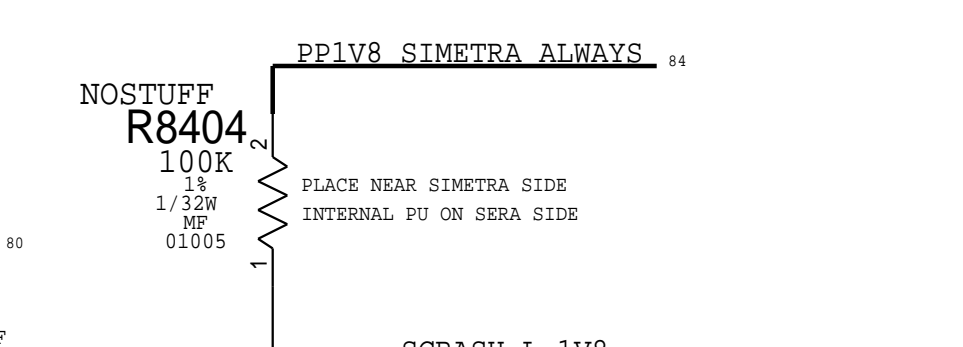
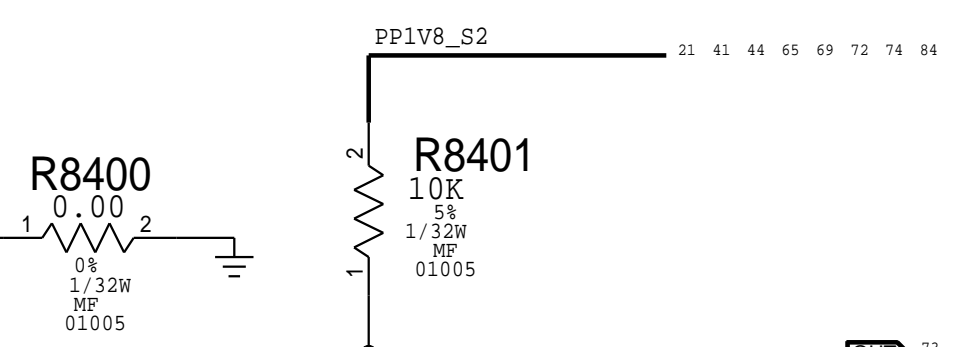
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

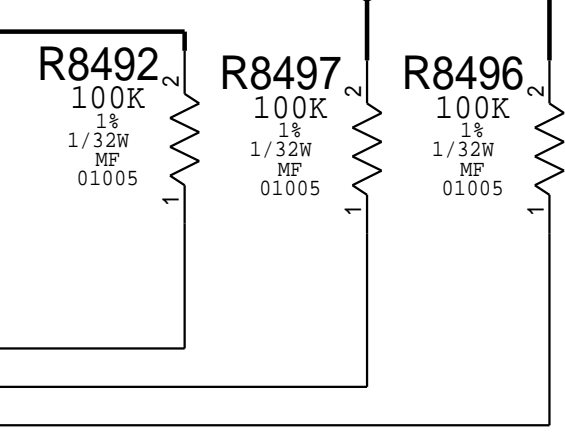
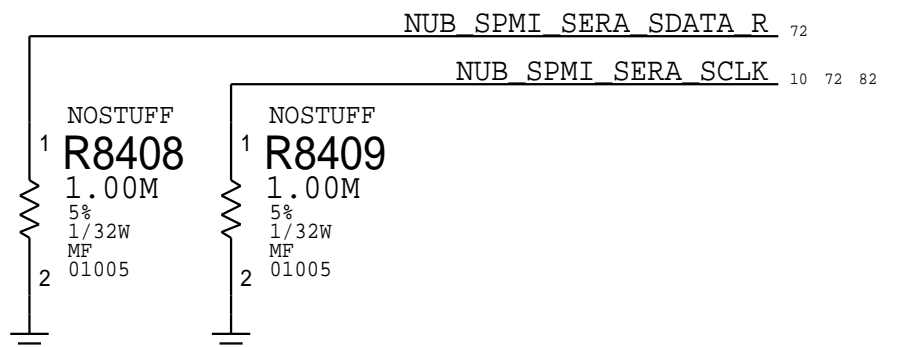
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8

GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_DOWN_L_1V8
GPIO_BTN_VOL_UP_L_1V8



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"



PAGE TITLE

POWER: SERA (4/4)

POTOMAC

D

C

B

A

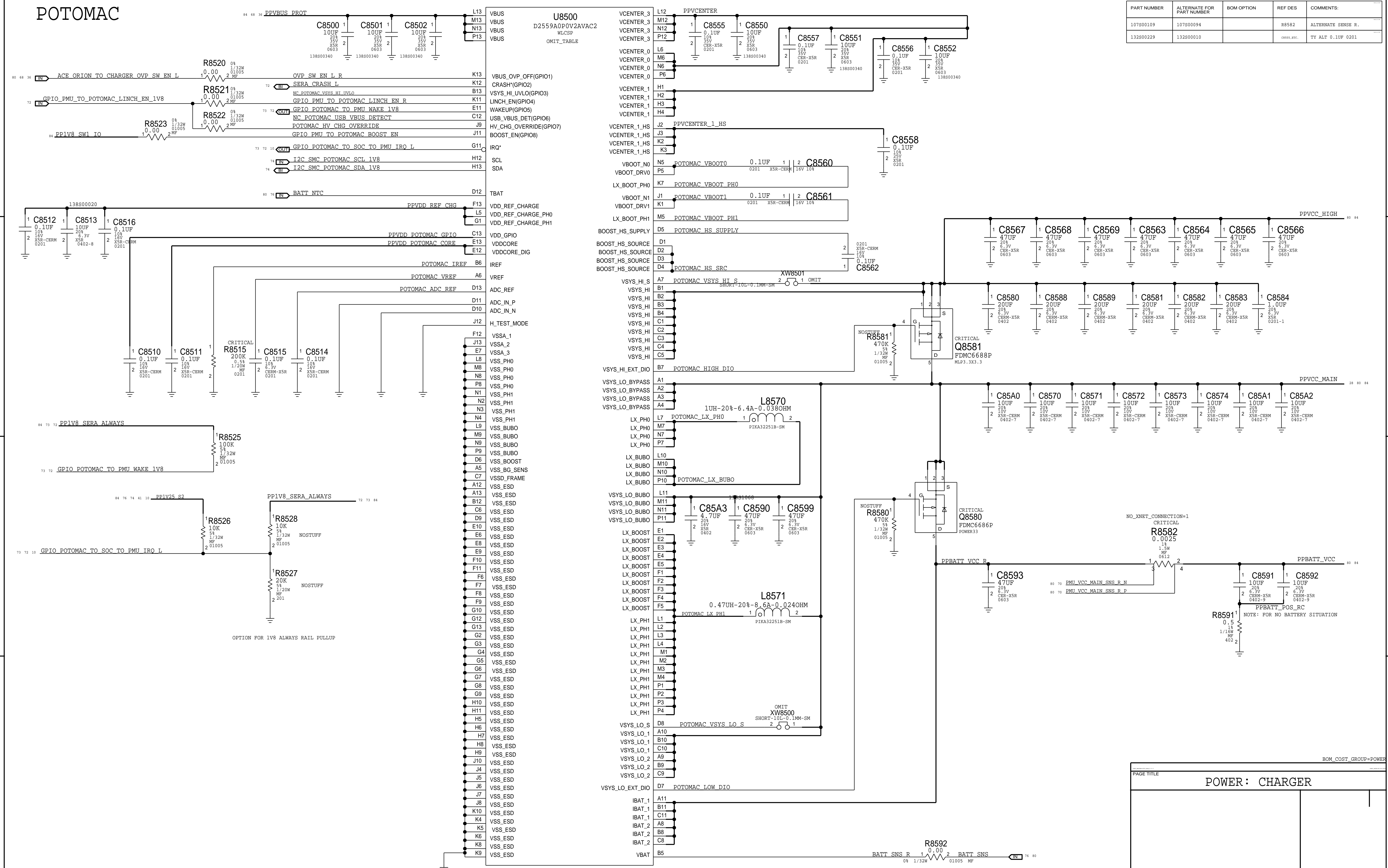
D

C

B

A

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
107800109	107800094		R8582	ALTERNATE SENSE R.
132800229	132800010		C8555, etc.	TY ALT 0.1UF 0201



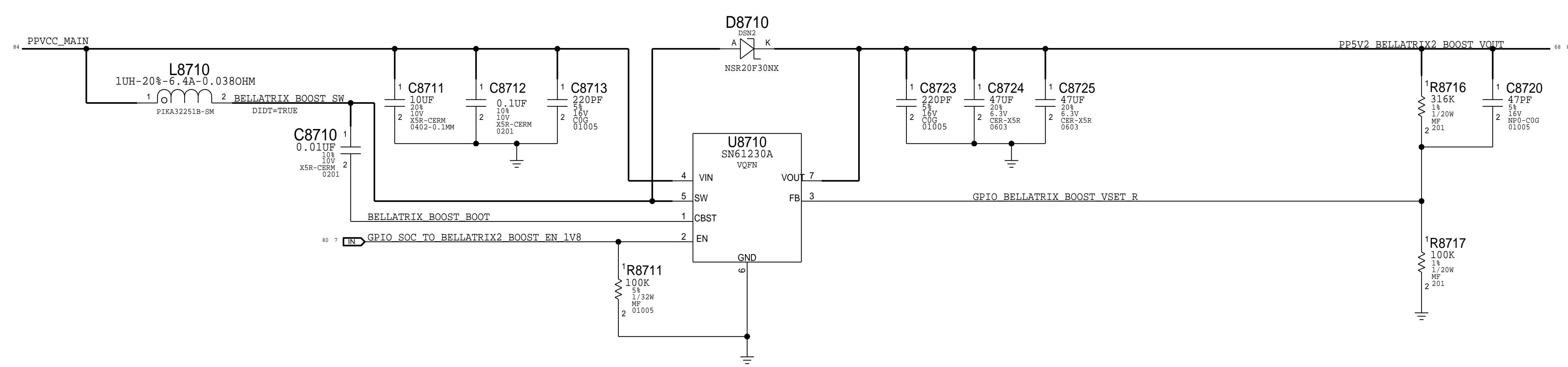
D



R

A

BELLATRIX BOOST

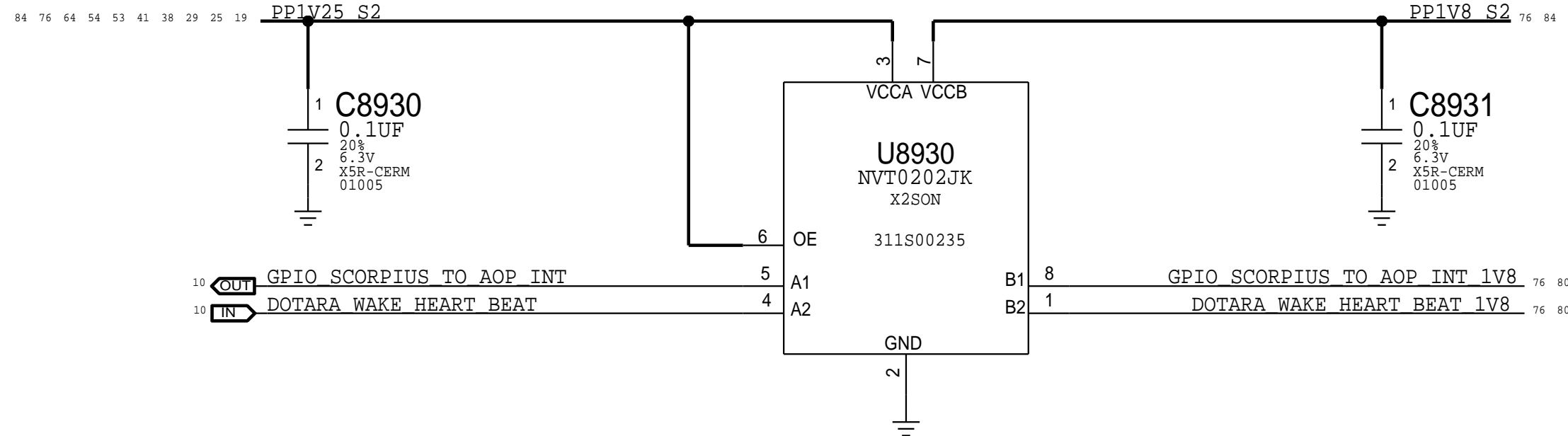


SCORPIUS BOOST MOVED TO SCORPIUS BOARD

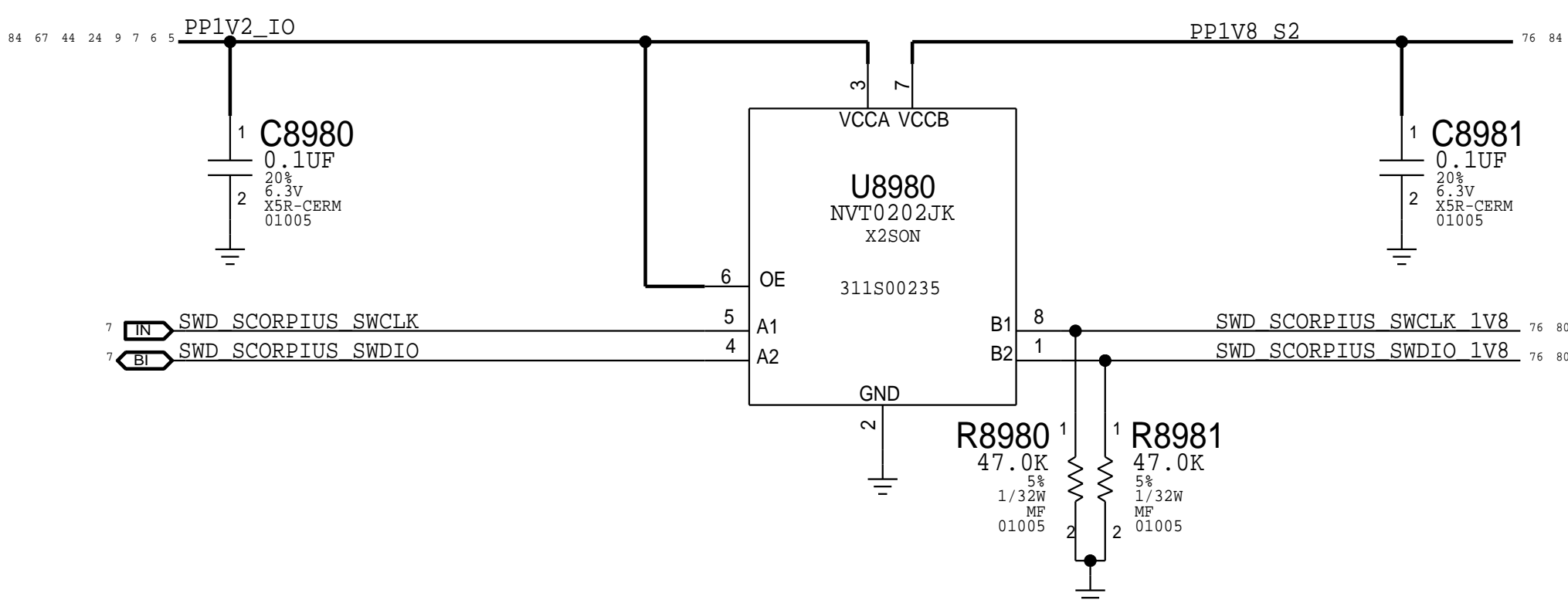
BOM_COST_GROUP=ORION	
PAGE TITLE	
POWER: BELLATRIX2 BOOSTS	

SCORPIUS THROTTLE MOVED TO SCORP. BOARD

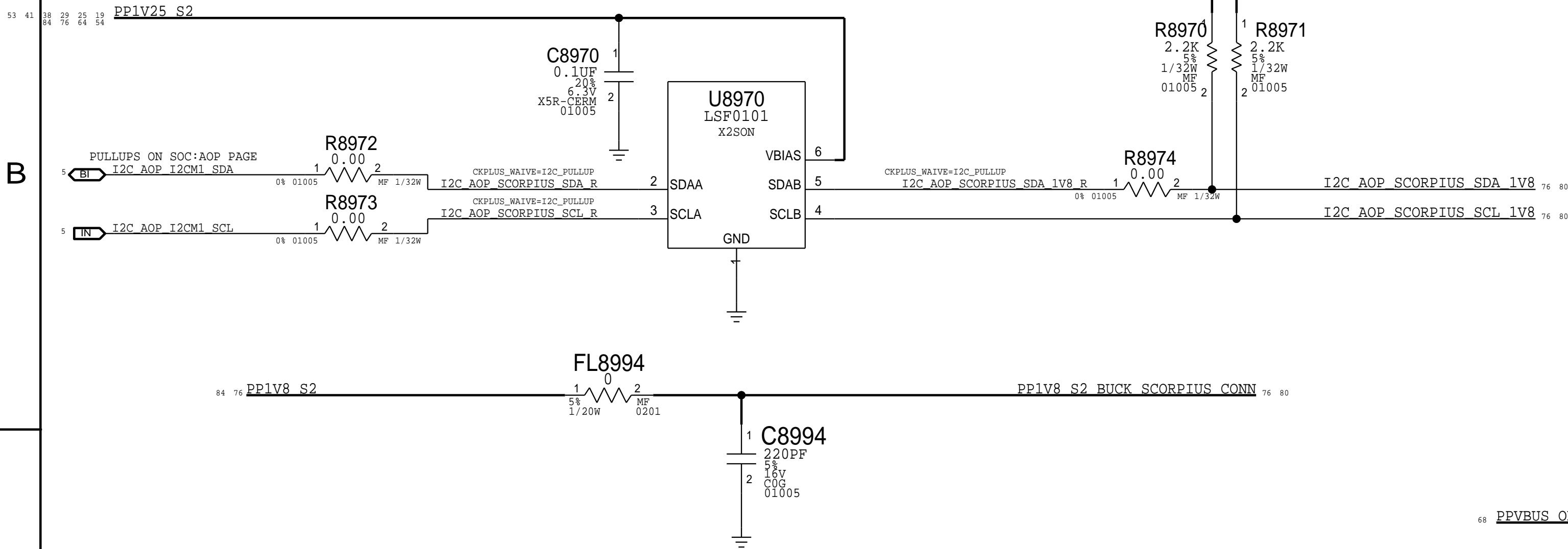
LEVEL TRANSLATOR



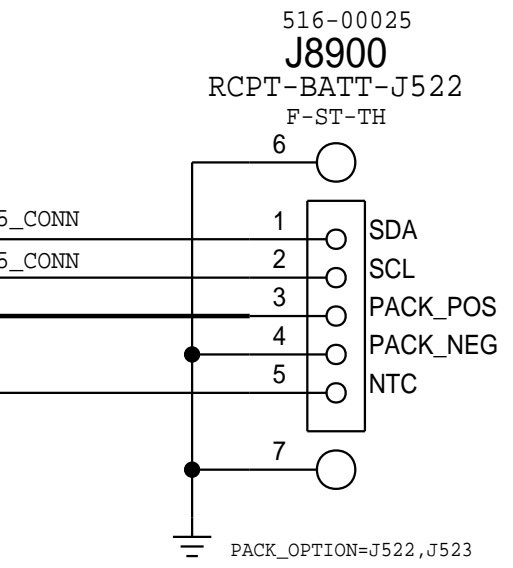
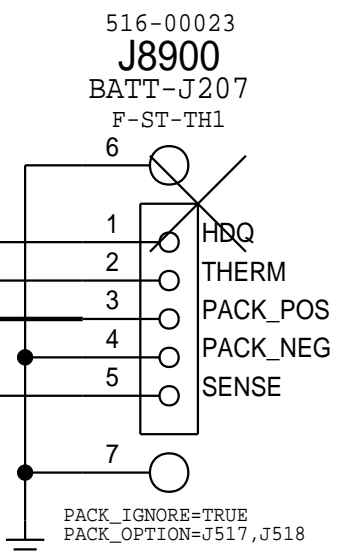
SWD LEVEL TRANSLATOR



I2C LEVEL TRANSLATOR



J517 BATTERY CONNECTOR

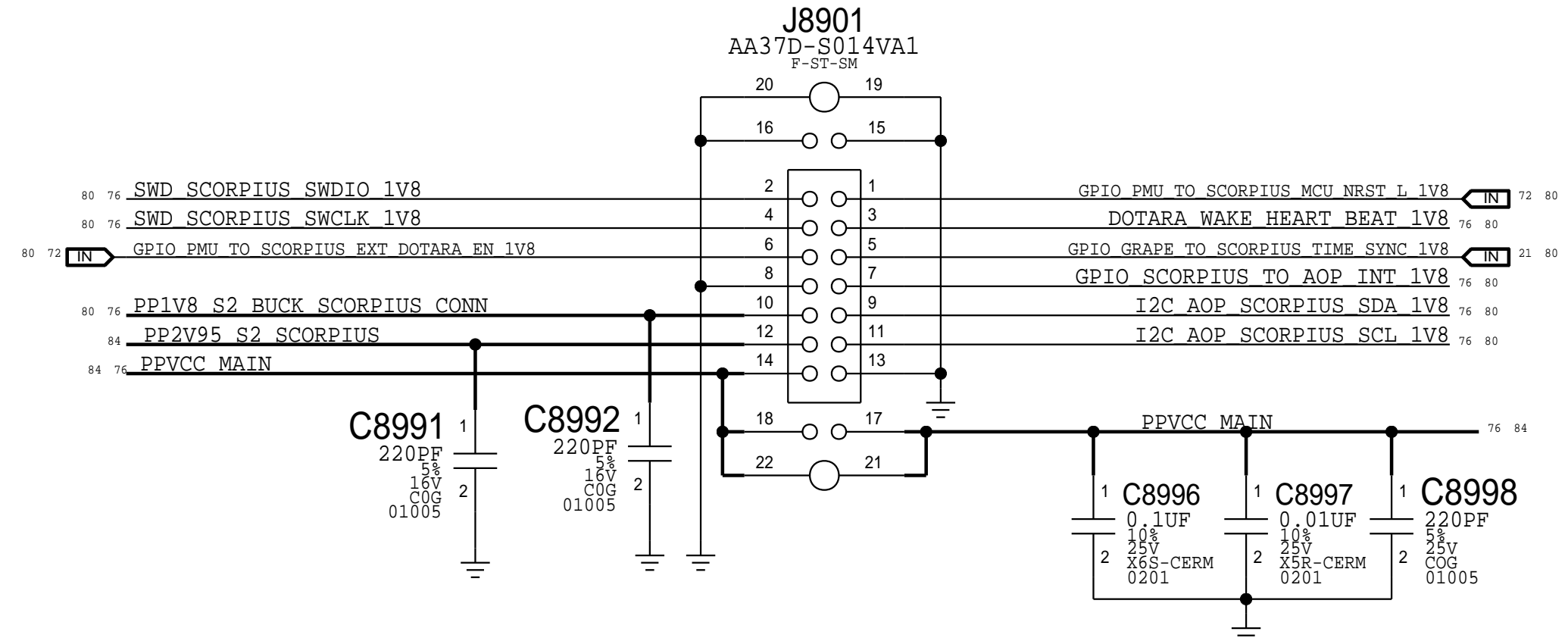


J522 BATTERY CONNECTOR

SCORPIUS FLEX CONNECTOR

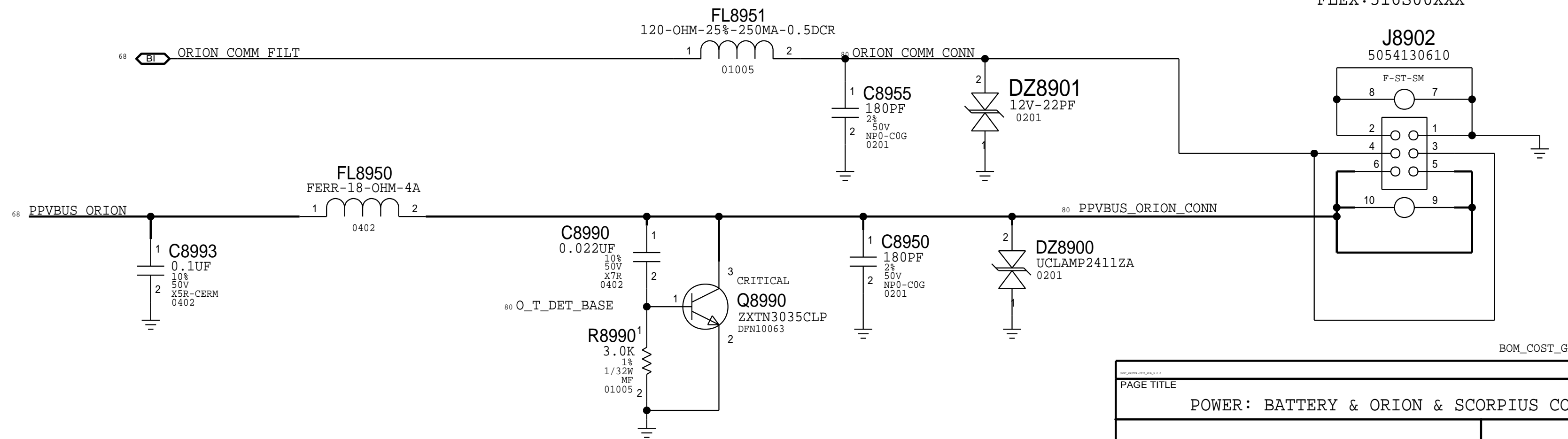
PINOUT FOLLOWS J522 SCORPIUS FLEX REV 0.8

MLB: 516S00150
FLEX: 516S00149



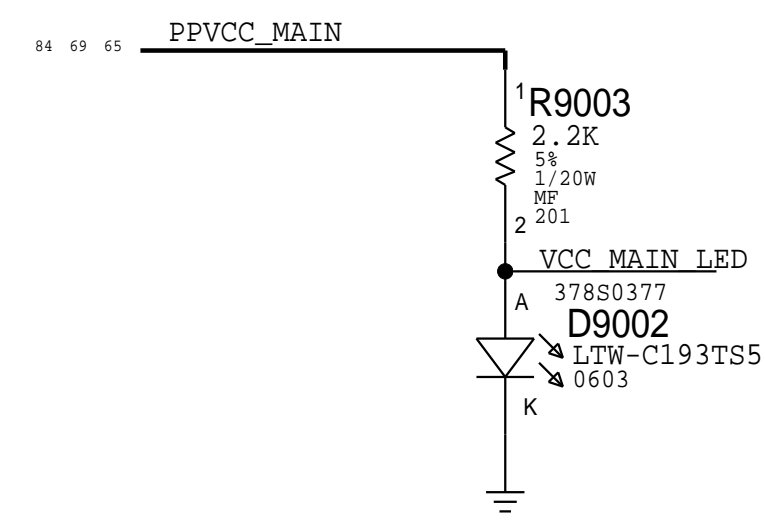
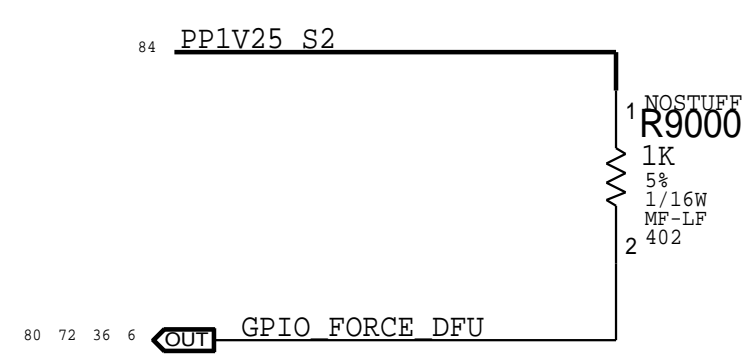
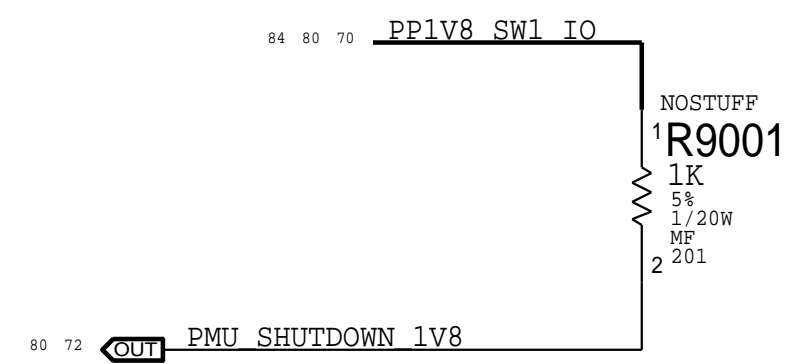
ORION FLEX CONNECTOR

MLB: 516S00321
FLEX: 516S00XXXX



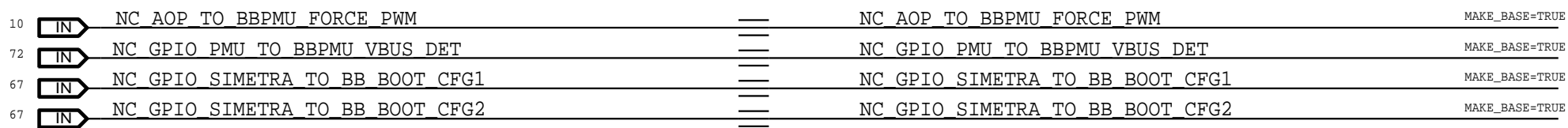
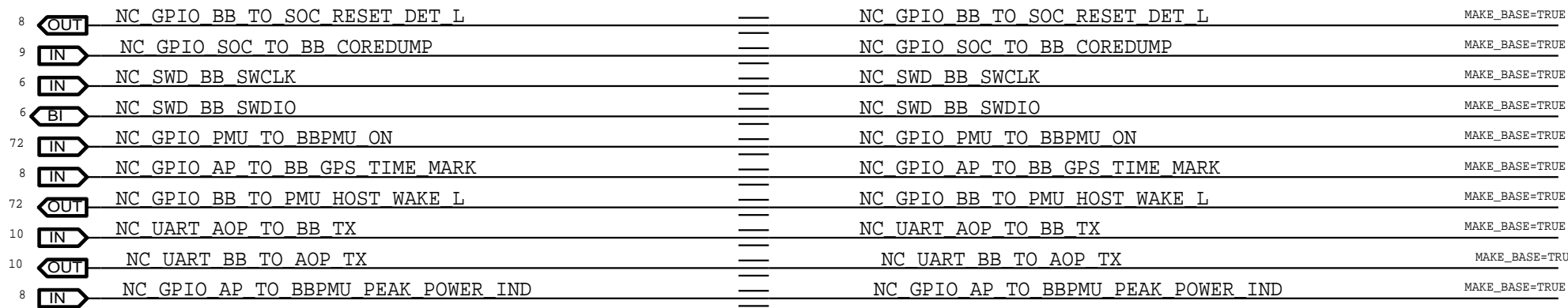
PAGE TITLE	
POWER: BATTERY & ORION & SCORPIUS CONN	

DEBUG RESET ACCESS

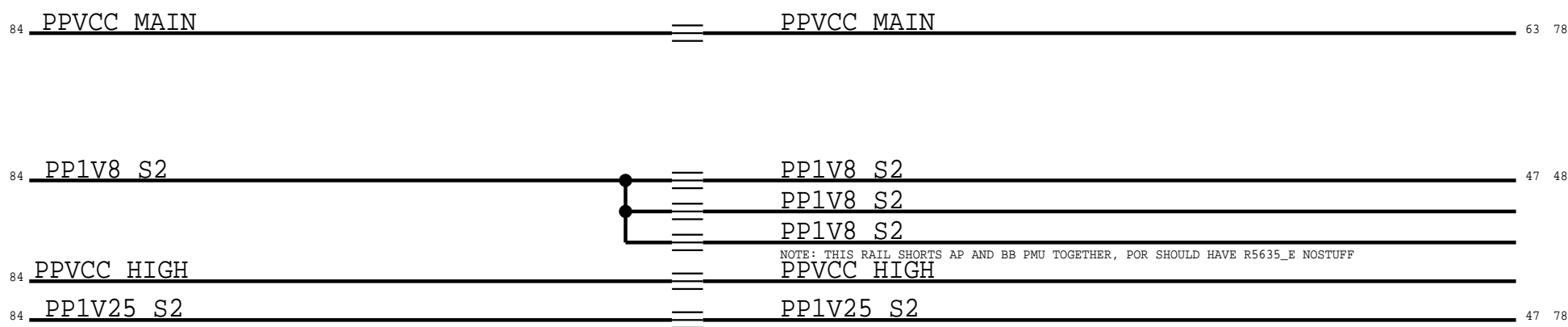


CELLULAR AND WLAN/BT ALIASES

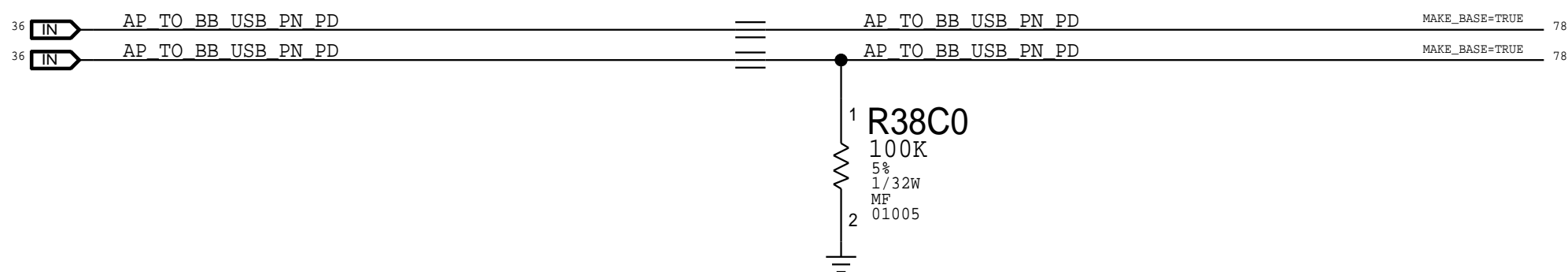
BASEBAND SOC/AOP/PMU GPIOs



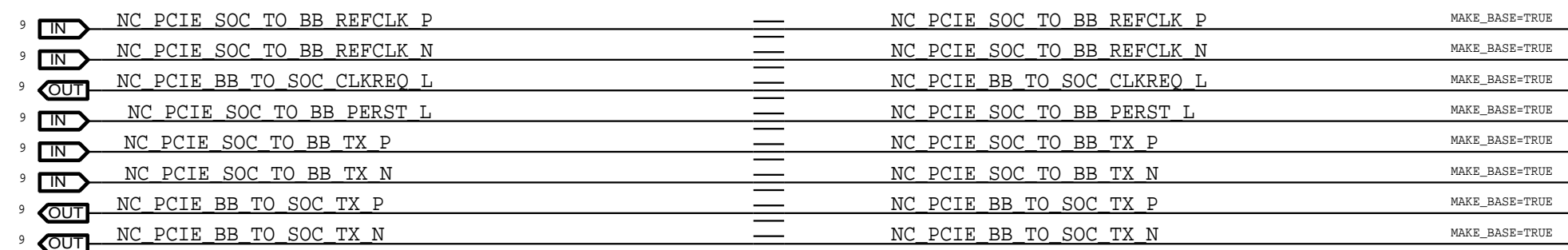
POWER



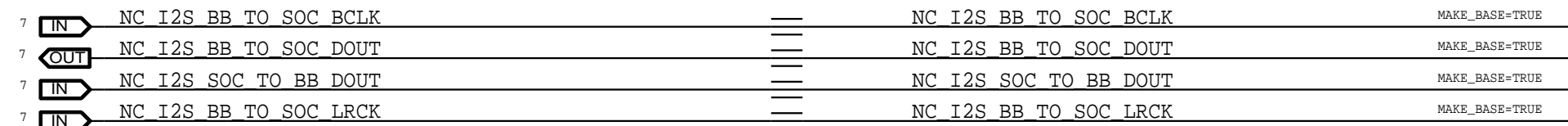
USB BB



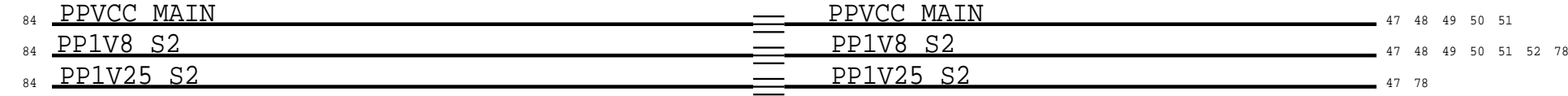
PCIE



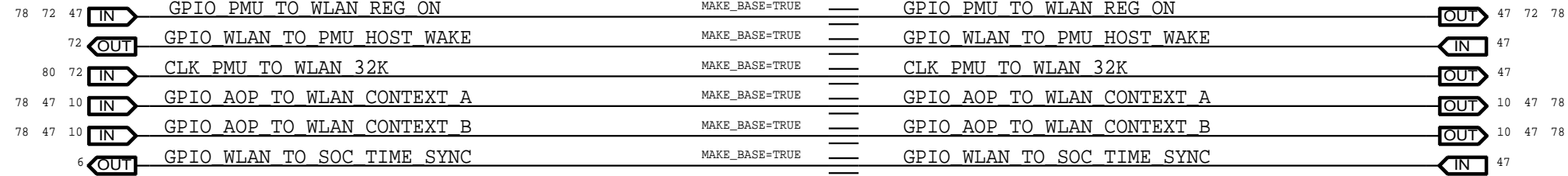
I2S



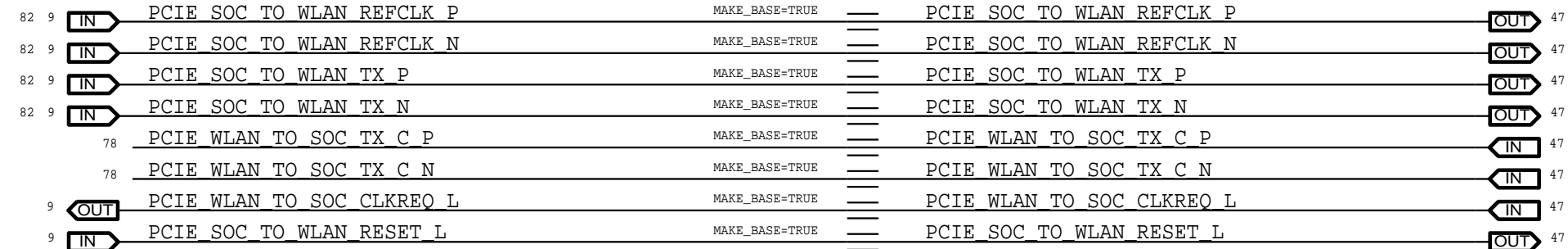
POWER



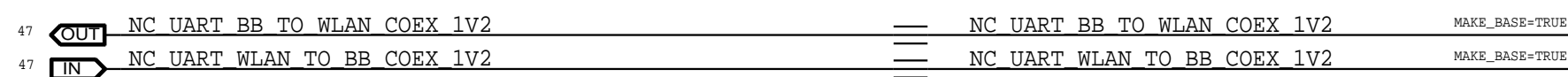
GPIOs



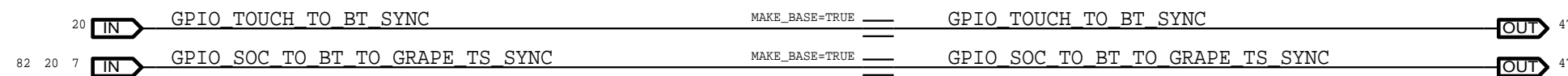
PCIE



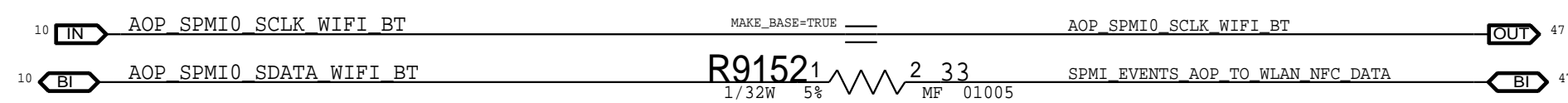
UART



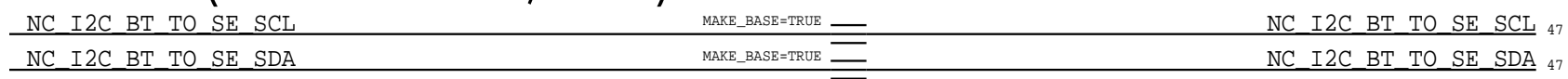
BLUETOOTH SOC GPIOs



WLAN/BT SPMI



I2C (TO WIFI/BT)

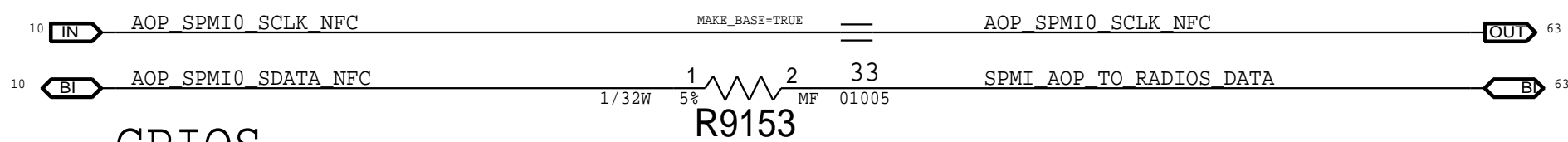


ROTTERDAM(CERES)

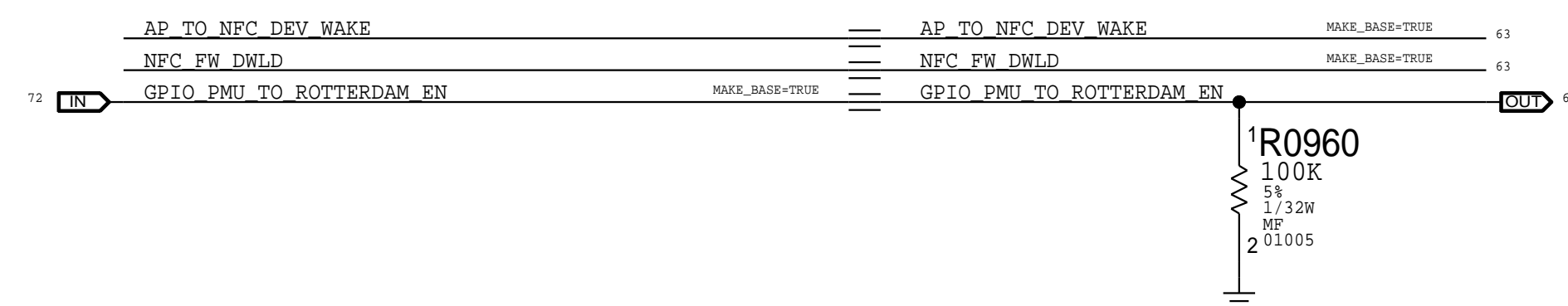
POWER



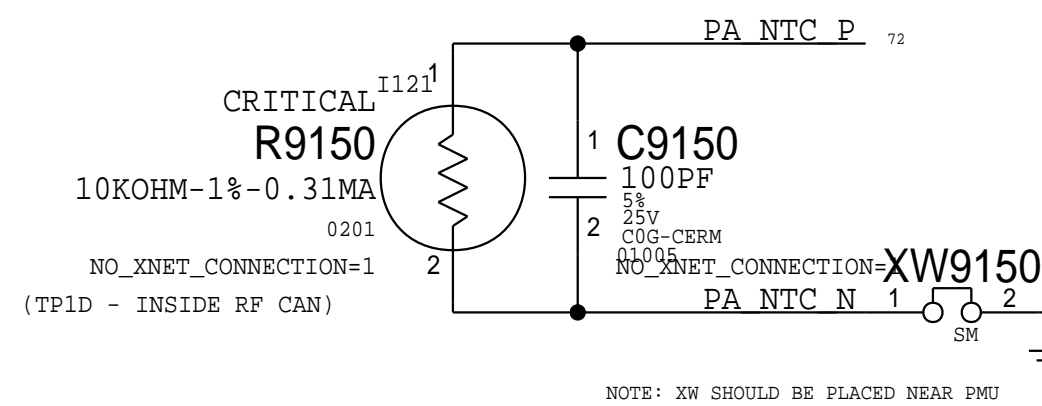
SPMI



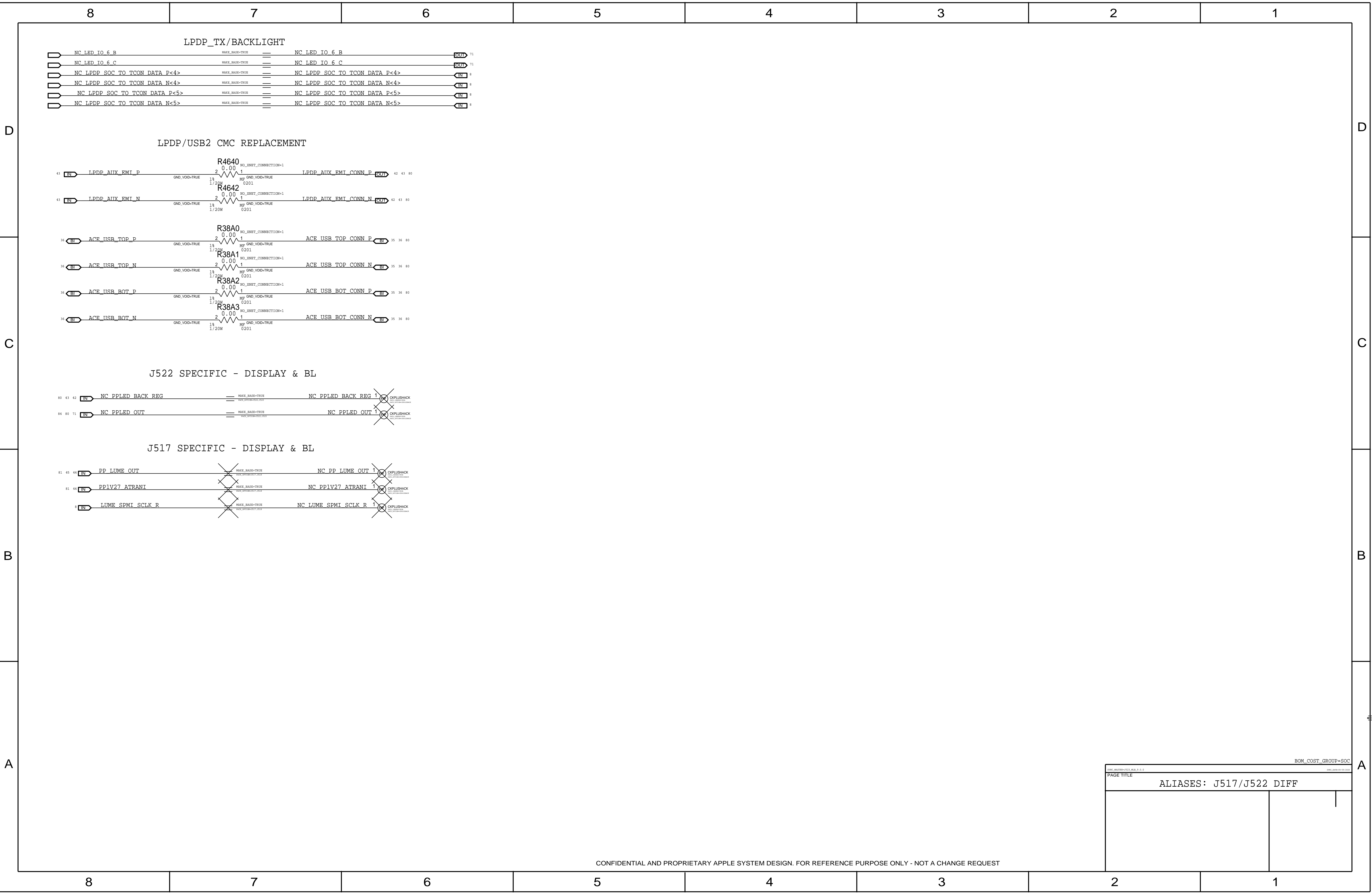
GPIOs



RF NTC

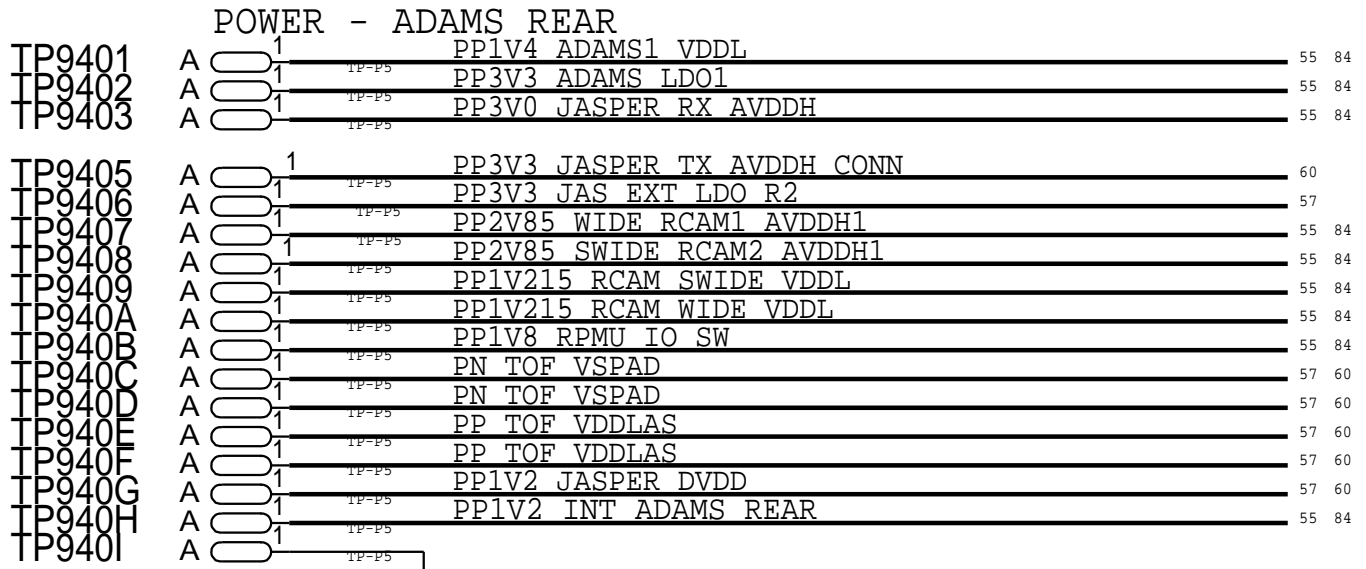


SYNOPSIS: ROTTERDAM, CERES, 2.0		PAGE TITLE	
ALIASES: BB/WLAN/BT			

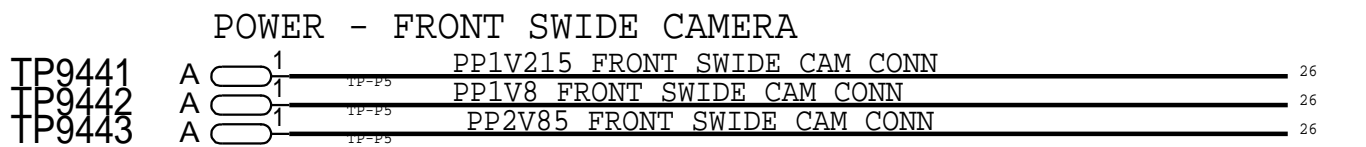


SMT TEST FIXTURE TP

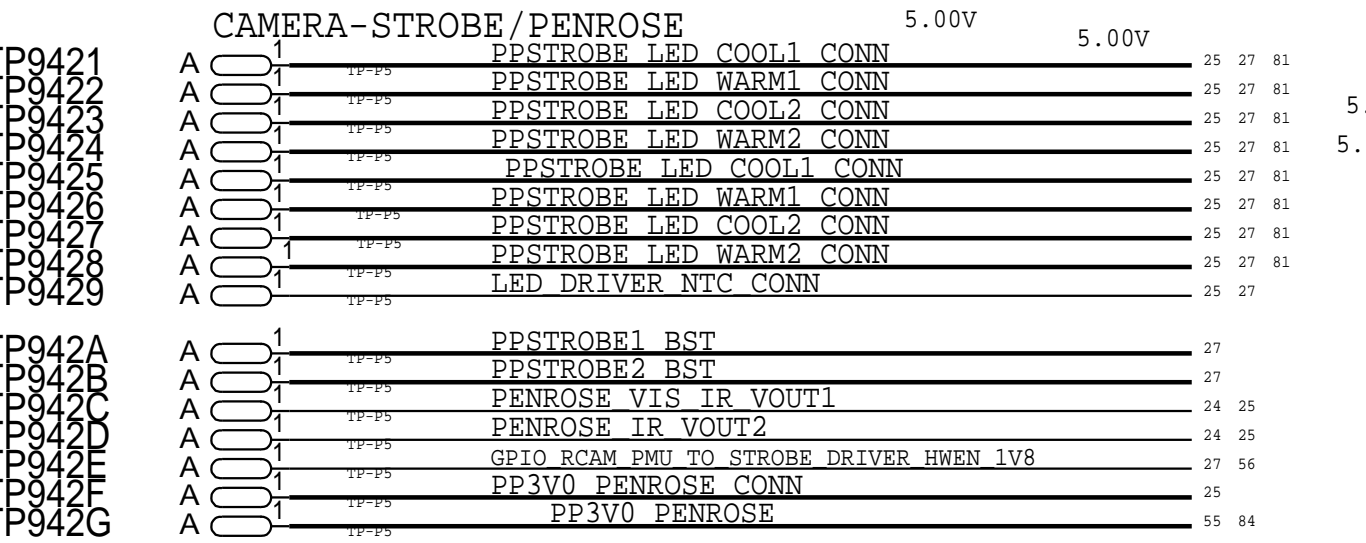
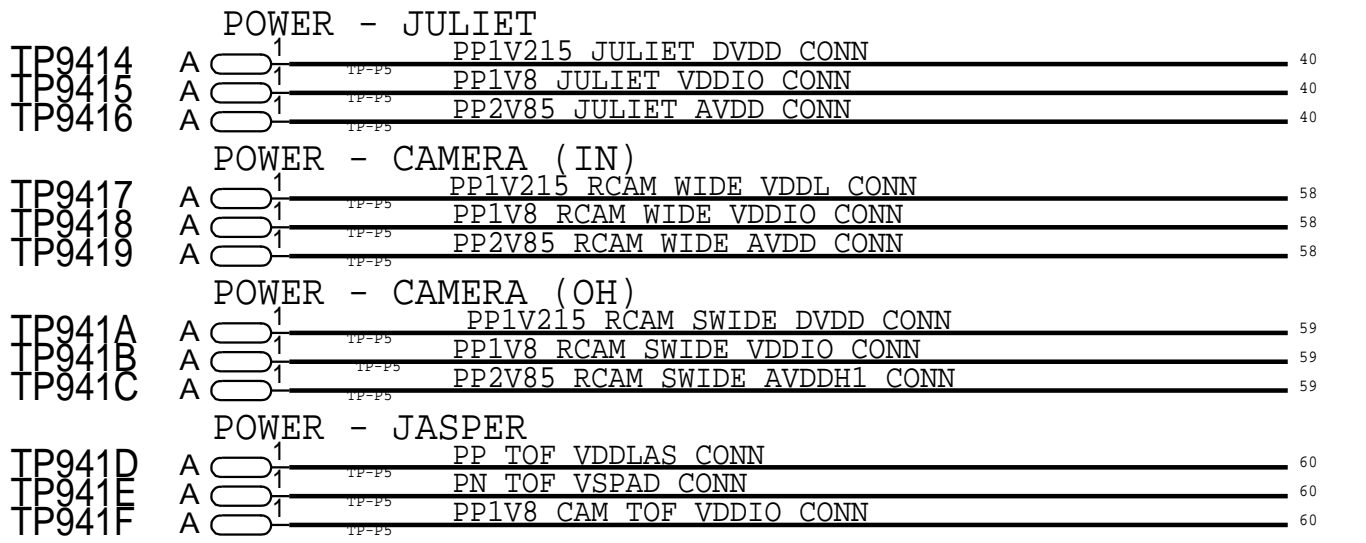
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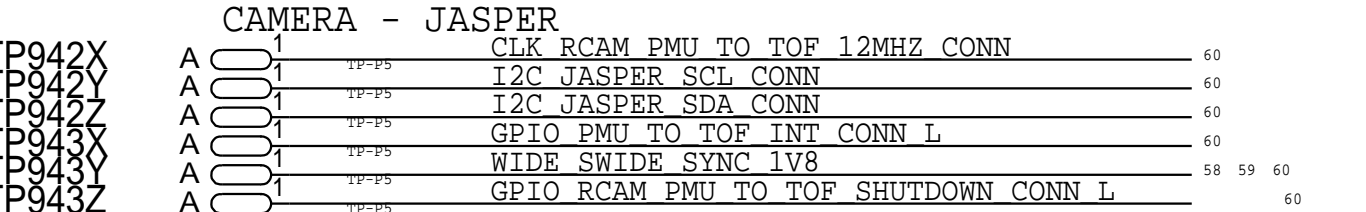
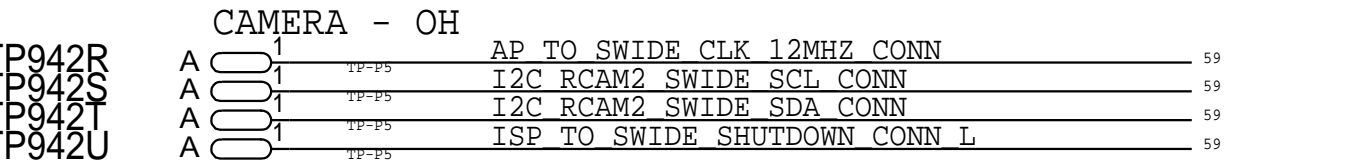
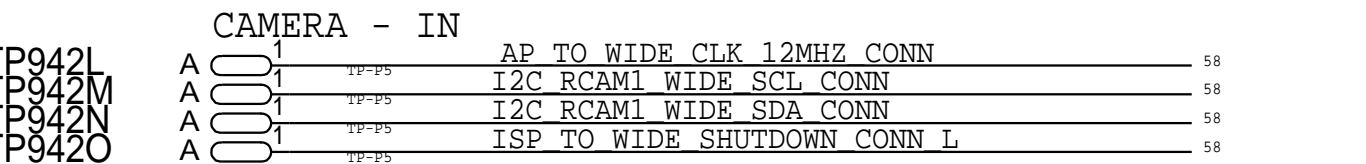
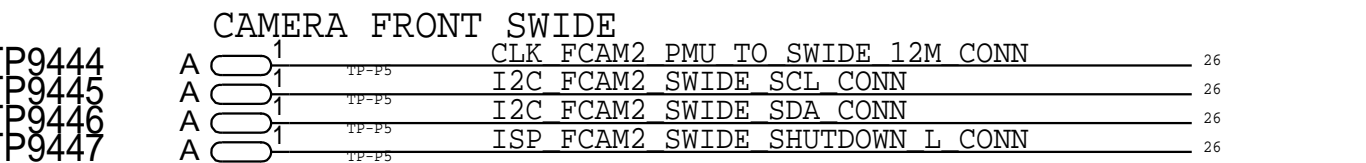
POWER - FRONT WIDE CAMERA



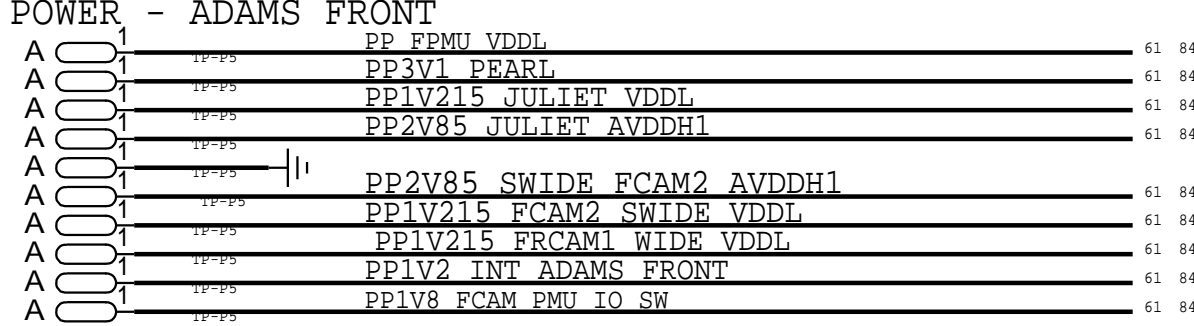
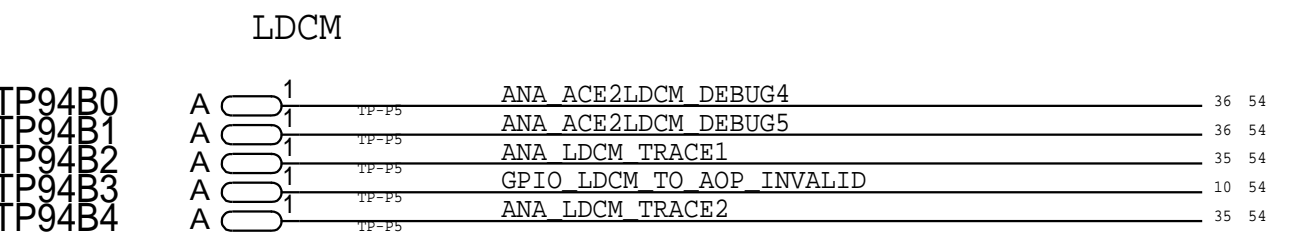
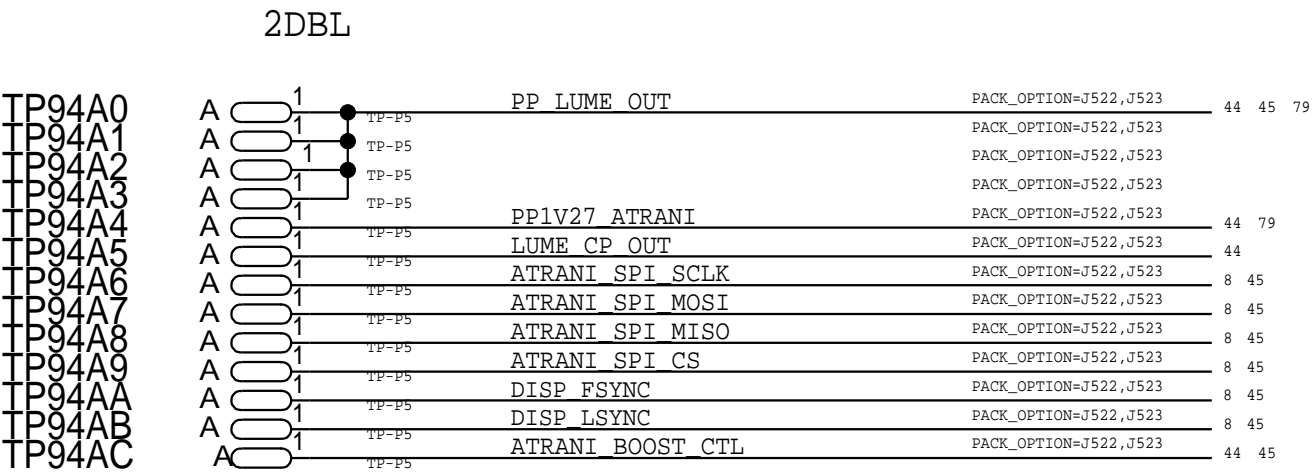
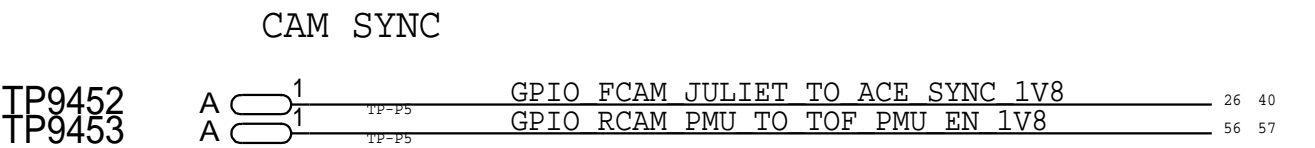
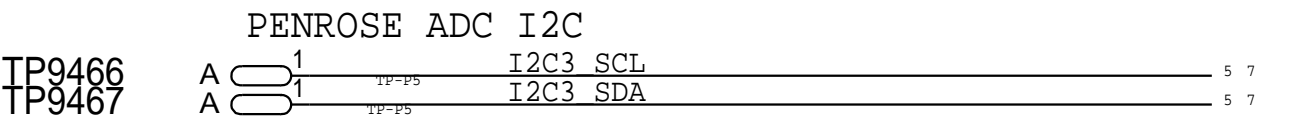
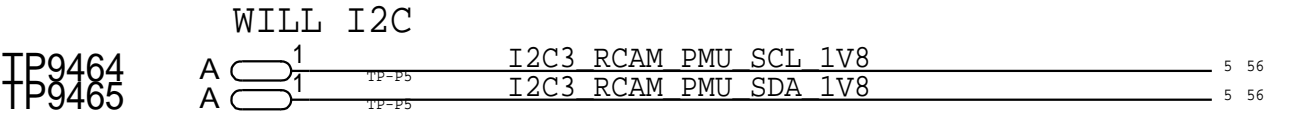
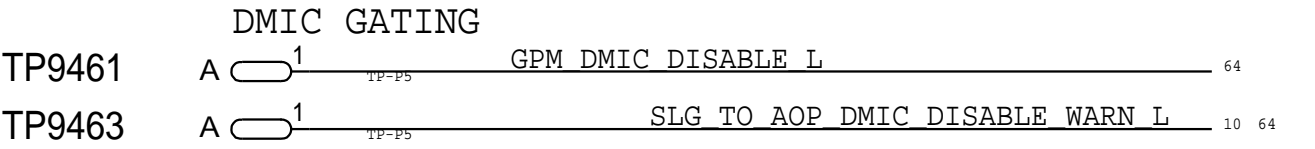
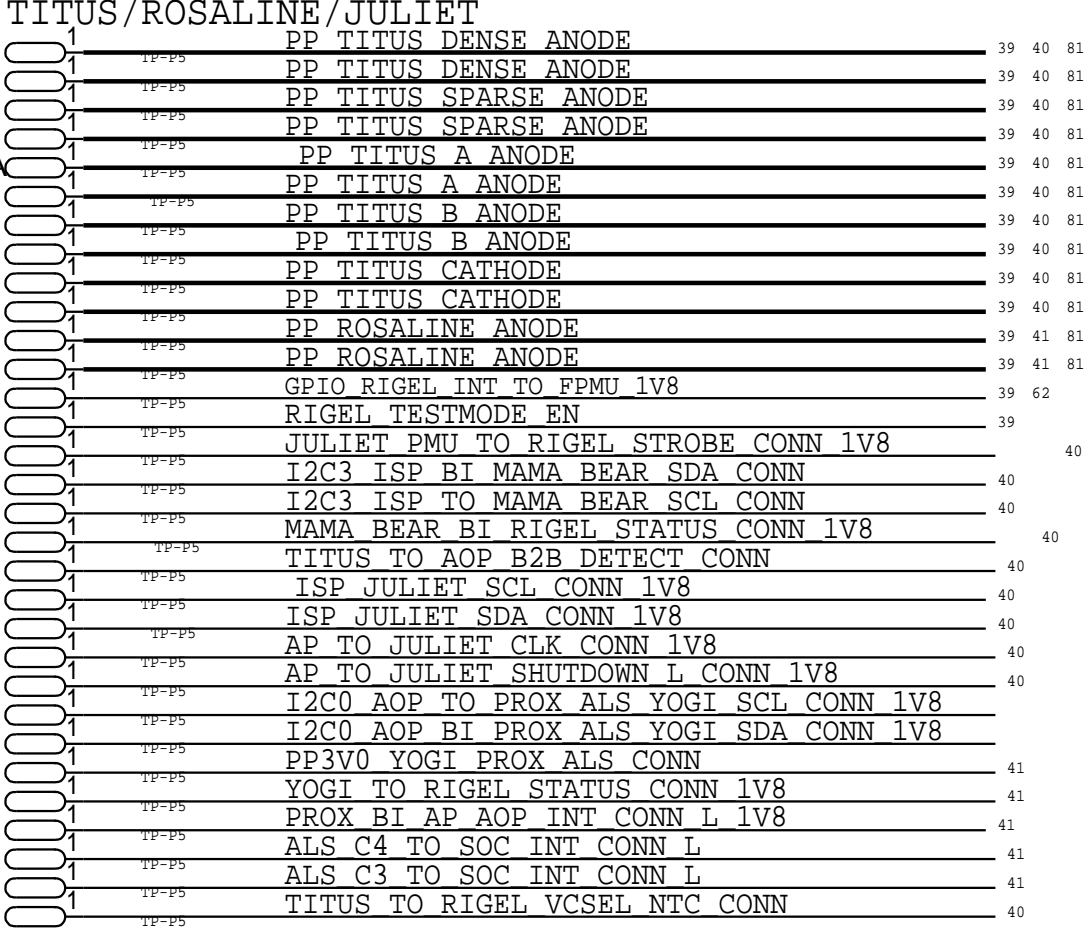
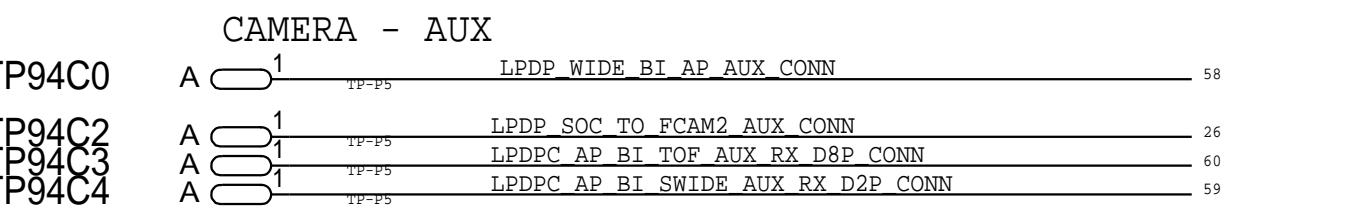
C



B



A



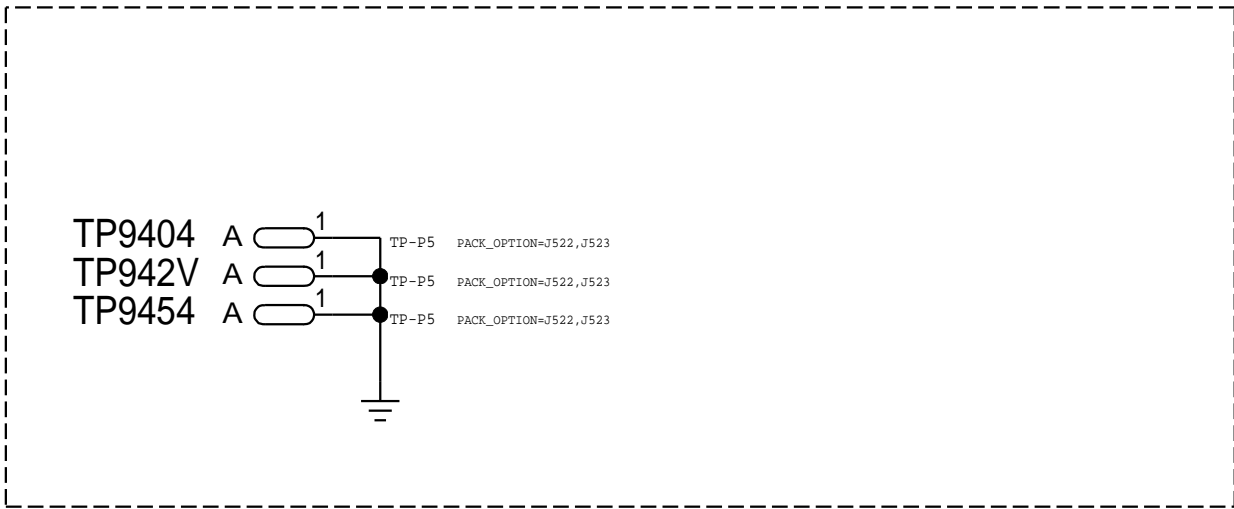
D

C

B

A

SPARES



BOM_COST_GROUP=NO_COST_ITEMS

PAGE TITLE

TEST: TPS ADDITIONAL

EE CHARACTERIZATION PROBE POINT

SOC

PP9570	P3MM SM	PP	1	TPT VDD SOC S1 SENSE	12
PP9571	P3MM SM	PP	1	TPT VSS SENSE1	12
PP9572	P3MM SM	PP	1	TPT VSS SENSE2	12
PP9573	P3MM SM	PP	1	TPT VDD2 S2 SENSE2	12
PP9574	P3MM SM	PP	1	TPT VDD S2 SENSE1	12
PP9575	P3MM SM	PP	1	TPT VDD EGPU SENSE	12
PP9576	P3MM SM	PP	1	TPT VDD GPU SENSE	12
PP9577	P3MM SM	PP	1	TPT VDD DISP S1 SENSE	12
PP9578	P3MM SM	PP	1	TPT VDD DCS SENSE	12
PP9579	P3MM SM	PP	1	TPT VDDQL SENSE	12
PP957A	P3MM SM	PP	1	TPT VSS DDR SENSE	12

FOR SEG

PP9503	P4MM SM	PP	1	PPVDD S1 SOC	69 80 84
PP950E	P4MM SM	PP	1	PP0V8 S1 SOC FIXED	66 80 84
PP950K	P4MM SM	PP	1	PPVDD EGPU	70 80 84
PP9505	P4MM SM	PP	1	PPVDD CPU	69 80 84
PP9506	P4MM SM	PP	1	PPVDD S1 SRAM	65 80 84
PP9507	P4MM SM	PP	1	PPVDD CPU SRAM	65 80 84
PP9508	P4MM SM	PP	1	PP0V72 S2 VDDLOW	66 80 84

ACE/REDRIVER

PP9510	P4MM SM	PP	1	ACE UART RX	36
PP9511	P4MM SM	PP	1	ACE UART TX	36

FH SPEAKER I2S

PP9521	P4MM SM	PP	1	I2S SOC TO SPKRAMP FH BCLK	PLACE_NEAR=U3460.A4:50MM 7 32 33 82
PP9522	P4MM SM	PP	1	I2S SOC TO SPKRAMP FH LRCK	PLACE_NEAR=U3460.A3:50MM 7 32 33 82
PP9523	P4MM SM	PP	1	I2S SOC TO SPKRAMP FH DOUT	PLACE_NEAR=U3460.A1:50MM 7 32 33 82
PP9524	P4MM SM	PP	1	I2S SPKRAMP FH TO SOC DOUT	PLACE_NEAR=U0600.U3:50MM 7 32 33

FH SPEAKER I2S - EXTRAS FOR U3400

PP952A	P4MM SM	PP	1	I2S SOC TO SPKRAMP FH BCLK	7 32 33 82
PP952B	P4MM SM	PP	1	I2S SOC TO SPKRAMP FH LRCK	7 32 33 82
PP952C	P4MM SM	PP	1	I2S SOC TO SPKRAMP FH DOUT	7 32 33 82

CN SPEAKER I2S

PP9525	P4MM SM	PP	1	I2S3 SOC TO BSTMSTR CN MCLK	PLACE_NEAR=U3000.C5:50MM 7 28
PP9526	P4MM SM	PP	1	I2S SOC TO SPKRAMP CN BCLK	PLACE_NEAR=U3250.A4:50MM 7 30 31
PP9527	P4MM SM	PP	1	I2S SOC TO SPKRAMP CN LRCK	PLACE_NEAR=U3250.A3:50MM 7 30 31
PP9528	P4MM SM	PP	1	I2S SOC TO SPKRAMP CN DOUT	PLACE_NEAR=U3250.A1:50MM 7 30 31
PP9529	P4MM SM	PP	1	I2S SPKRAMP CN TO SOC DOUT	PLACE_NEAR=U0600.BC32:50MM
PP952D	P4MM SM	PP	1	GPIO BST MASTER TO SOC IRQ L	7 28
PP952E	P4MM SM	PP	1	GPIO BST SLAVE TO SOC IRQ L	7 28
PP952F	P4MM NSM	PP	1	BST CLK SYNC 1V8	28
PP952G	P2MM NSM	PP	1	BST SYNC R 1V8	28

PENROSE

PP952J	P4MM SM	PP	1	PDM PENROSE SCLK	10 24
PP952K	P4MM SM	PP	1	PDM PENROSE SD	10 24

GRAPE

PP9580	P3MM SM	PP	1	SPI SOC TO GRAPE SCLK	7 20
PP9582	P3MM SM	PP	1	SPI SOC TO GRAPE MOSI	7 20
PP9583	P3MM SM	PP	1	SPI SOC TO GRAPE CS L	7 20
PP9584	P3MM SM	PP	1	GPIO SOC TO GRAPE RESET L	7 20 21
PP9585	P3MM SM	PP	1	GPIO GRAPE TO AOP IRQ L	10 20
PP9586	P3MM SM	PP	1	KONA S TO LANAI M RESET DET 1V8 L	20 21
PP9587	P3MM SM	PP	1	PSE SYNC 1V8	20 21
PP9588	P3MM SM	PP	1	KMSI MISO 1V8	20 21
PP9589	P3MM SM	PP	1	KMSI MOSI 1V8	20 21
PP958A	P3MM SM	PP	1	KMSI STRB IN 1V8	20 21
PP958B	P3MM SM	PP	1	KMSI STRB OUT 1V8	20 21
PP958C	P3MM SM	PP	1	LANAI BOOST ATEST	20
PP958D	P3MM SM	PP	1	TESTPOINT KONA S UART TX 1V8	21
PP958E	P3MM SM	PP	1	TESTPOINT KONA S UART RX 1V8	21

PP958H	P3MM SM	PP	1	TPT SWD KONA SWDIO 1V8	21
PP958I	P3MM SM	PP	1	TPT SWD KONA SWCLK 1V8	21
PP958J	P3MM SM	PP	1	GPIO12 KONA LDO ADJ 1V8	20 21
PP958K	P3MM SM	PP	1	GPIO13 KONA LDO EN 1V8	20 21
PP958L	P3MM SM	PP	1	GPIO SOC TO DISPLAY TOUCH EB	8 20

PP958N	P3MM SM	PP	1	GPIO SOC TO LANAI DISPLAY BSYNC0	8 20
PP958P	P3MM SM	PP	1	GPIO SOC TO GRAPE BSYNC1	20 42
PP958X	P3MM SM	PP	1	UART AOP TO GRAPE TX	10 20
PP958Y	P3MM SM	PP	1	UART GRAPE TO AOP TX	10 20
PP958Z	P3MM SM	PP	1	UART DEBUG TO GRAPE TX	20 36
PP958Q	P3MM SM	PP	1	SPI LANAI M TO KONA S MISO 1V8	20 21
PP958T	P3MM SM	PP	1	SPI LANAI M TO KONA S SCLK 1V8	20 21
PP958U	P3MM SM	PP	1	SPI LANAI M TO KONA S CS 1V8 L	20 21
PP958W	P3MM SM	PP	1	SPI LANAI M TO KONA S MOSI 1V8	20 21

PP95K0	P3MM SM	PP	1	SPI SOC TO KONA S SCLK 1V8	7 21
PP95K1	P3MM SM	PP	1	SPI SOC TO KONA S MOSI 1V8	7 21
PP95K2	P3MM SM	PP	1	SPI SOC TO KONA S CS 1V8 L	7 21
PP95K3	P3MM SM	PP	1	GPIO KONA S TO SOC IRQ 1V8 L	7 21

GRAPE POWER

PP958R	P3MM SM	PP	1	PP3V3 GRAPE FILT	20 21
PP958S	P3MM SM	PP	1	PP1V8 GRAPE XTAL FILT	20 21
PP958V	P3MM SM	PP	1	PP1V8 GRAPE AON RC	20 21

DMIC SECURED

PP9590	P3MM SM	PP	1	PDM DMIC TOP L R SD	10 64
PP9591	P3MM SM	PP	1	PDM DMIC FRONT BACK SD	10 64
PP9592	P3MM SM	PP	1	PDM DMIC SIDE SD	10 64

PMU

PP95A0	P2MM SM	PP	1	SGPIO READY REQ 1V8	67 72
PP95A1	P2MM SM	PP	1	SGPIO SCLK 1V8	67 72
PP95A2	P2MM SM	PP	1	SGPIO SDATA 1V8	67 72
PP95A3	P2MM SM	PP	1	GPIO SIMETRA IRQ L	67

WIFI(SEE MORE ON PAGE 49)

PP95BL	P4MM SM	PP	1	GPIO SOC TO BT TO GRAPE TS SYNC	7 20 78
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WLAN PCIE TPS

PP95E0	P2MM SM	PP	1	PLACE_NEAR=U0600.BF11:100MM	PCIE WLAN TO SOC TX P	9 78
PP95E1	P2MM SM	PP	1	PLACE_NEAR=U0600.BE11:100MM	PCIE WLAN TO SOC TX N	9 78
PP95E2	P2MM SM	PP	1	PLACE_NEAR=U1 WLAN.W.99:20MM	PCIE SOC TO WLAN TX P	9 78
PP95E3	P2MM SM	PP	1	PLACE_NEAR=U1 WLAN.W.30:20MM	PCIE SOC TO WLAN TX N	9 78
PP95E4	P2MM SM	PP	1	PLACE_NEAR=U1 WLAN.W.95:20MM	PCIE SOC TO WLAN REFCLK P	9 78
PP95E5	P2MM SM	PP	1	PLACE_NEAR=U1 WLAN.W.26:20MM	PCIE SOC TO WLAN REFCLK N	9 78

BB PCIE TPS

ORION

PP953B	P4MM SM	PP	1	GPIO AOP TO ORION HWEN	10 68
PP953C	P4MM SM	PP	1	ORION CONN STATUS	68

SENSOR SPI LINES

PP9544	P3MM SM	PP	1	SPI SENSORS SCLK	PLACE_NEAR=U2120.4:10MM	10 19 53
PP9545	P3MM SM	PP	1	SPI SENSORS MISO	PLACE_NEAR=U0600.AC3:10MM	10 19 53
PP9546	P3MM SM	PP	1	SPI SENSORS MOSI	PLACE_NEAR=U2120.3:10MM	10 19 53
PP9547	P3MM SM	PP	1	SPI MOLY SCLK	PLACE_NEAR=R2102.1:10MM	19
PP9549	P3MM SM	PP	1	SPI MOLY MOSI	PLACE_NEAR=R2103.1:10MM	19

PMU/CHARGER

PP95G7	P4MM SM	PP	1	EUSB VBUS DETECT	6
PP95G4	P4MM SM	PP	1	NUB SPMI SERA SCLK	10 72
PP95G5	P4MM SM	PP	1	NUB SPMI SERA SDATA	10 72
PP9539	P4MM SM	PP	1	SYS ALIVE	17 18 72

PP95G0	P4MM SM	PP	1	PROX BI AP AOP INT L PWM LVT	10 41
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PARROT

PP95H0	P3MM SM	PP	1	TPT GPIO0 PARROT	38
PP95H1	P3MM SM	PP	1	TPT GPIO1 PARROT	38

NAND

PP95D0	P3MM SM	PP	1	TPT NAND1 DROOP L	17
PP95D1	P3MM SM	PP	1	TPT NAND2 DROOP L	18
PP95D2	P3MM SM	PP	1	GPIO PMU TO NAND LOW BATT L	17 18 72
PP95D6	P3MM SM	PP	1	PCIE SOC TO NAND PERST L	9 17 18

PP95DE	P3MM SM	PP	1	PLACE_NEAR=U1800.A4:50MM	NAND1 ANI1 VREF	17
PP95DF	P3MM SM	PP	1	PLACE_NEAR=U1800.G12:50MM	NAND1 ANIO VREF	17
PP95DG	P3MM SM	PP	1	PLACE_NEAR=U1800.A4:50MM	NAND2 ANI1 VREF	18
PP95DH	P3MM SM	PP	1	PLACE_NEAR=U1800.G12:50MM	NAND2 ANIO VREF	18
PP95DI	P3MM SM	PP	1	PLACE_NEAR=U1800.C4:50MM	GPIO_SOC_TO_NAND_FW_STRAP	7 17 18
PP95DJ	P3MM SM	PP	1	PLACE_NEAR=U1800.L4:50MM	GPIO_SOC_TO_NAND_RESET_L	7 17 18

IR CAMERA - JULIET

PP9550	P2MM SM	PP	1	MIPI PEARL TO SOC CLK P	8 40
PP9551	P2MM SM	PP	1	MIPI PEARL TO SOC CLK N	8 40
PP9552	P2MM SM	PP	1	MIPI PEARL SOC DATA P<0>	8 40
PP9553	P2MM SM	PP	1	MIPI PEARL SOC DATA N<0>	8 40
PP9554	P2MM SM	PP	1	MIPI PEARL SOC DATA P<1>	8 40
PP9555	P2MM SM	PP	1	MIPI PEARL SOC DATA N<1>	8 40
PP9556	P2MM SM	PP	1	CLK FCAM PMU TO JULIET 12M 1V8	40 62

CAMERA - FRONT WIDE

CAMERA - FRONT SWIDE

PP9566	P2MM SM	PP	1	LPDP SOC TO FCAM2 SWIDE_AUX	8 26
PP9567	P2MM SM	PP	1	LPDP FCAM2 SWIDE TO SOC DATA P<0>	8 26
PP9568	P2MM SM	PP	1	LPDP FCAM2 SWIDE TO SOC DATA N<0>	8 26
PP9569	P2MM SM	PP	1	LPDP FCAM2 SWIDE TO SOC DATA P<1>	8 26
PP956A	P2MM SM	PP	1	LPDP FCAM2 SWIDE TO SOC DATA N<1>	8 26

LPDPRX TPS

PP95F0	P2MM SM	PP	1	LPDP RCAM1 WIDE TO SOC DATA P<0>	8 58
PP95F1	P2MM SM	PP	1	LPDP RCAM1 WIDE TO SOC DATA N<0>	8 58
PP95F2	P2MM SM	PP	1	LPDP RCAM1 WIDE TO SOC DATA P<1>	8 58
PP95F3	P2MM SM	PP	1	LPDP RCAM1 WIDE TO SOC DATA N<1>	8 58
PP95F4	P2MM SM	PP	1	LPDP SOC TO RCAM1 WIDE_AUX	8 58
PP95F5	P2MM SM	PP	1	LPDP RCAM2 SWIDE TO SOC DATA P<0>	8 59
PP95F6	P2MM SM	PP	1	LPDP RCAM2 SWIDE TO SOC DATA N<0>	8 59
PP95F7	P2MM SM	PP	1	LPDP RCAM2 SWIDE TO SOC DATA P<1>	8 59
PP95F8	P2MM SM	PP	1	LPDP RCAM2 SWIDE TO SOC DATA N<1>	8 59
PP95F9	P2MM SM	PP	1	LPDP SOC TO RCAM2 SWIDE_AUX	8 59
PP95FA	P2MM SM	PP	1	LPDP JASPER TO SOC DATA P	8 60
PP95FB	P2MM SM	PP	1	LPDP JASPER TO SOC DATA N	8 60
PP95FC	P2MM SM	PP	1	LPDP SOC TO JASPER_AUX	8 60

BOM_COST_GROUP=NO_COST_ITEMS

PP95-202501-001-001

PP95-202501-001-001

PP95-202501-001-001

TEST: EE TP/PP

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SERA_BUCK1_LX1_DCR	U3800.G2	U8500.L13	?	?	PPVBUS_FROT FROM ACE TO POTOMAC DCR	Q8000.A1	U8500.L13	?	?	PPVBUS_FROT FROM BELLATRIX B2B FET TO POTOMAC DCR	Q8000.A2	Q8051.3	?	?	PPVBUS_ORION_RVP FROM BELLATRIX B2B FET TO ORION RVP FET DCR	Q8051.2	FL8950.1	?	?	PPVBUS_ORION FROM ORION RVP FET TO FERRITE DCR	FL8950.2	J8902.10	?	?	PPVBUS_ORION_CONN FROM FERRITE TO ORION B2B DCR	U3800.G6	J3700.29	?	?	PPVBUS_ORION_CONN FROM FERRITE TO ORION B2B DCR	J8900.3	R8582.2	?	?	PPBATT_VCC FROM BATT_CONN TO SENSE RES DCR	R8582.1	Q8580.5	?	?	PPBATT_VCC_R FROM SENSE RES TO VBAT1/VCCMAIN FET DCR	Q8580.1	U8500.A1	?	?	PPVCC_MAIN FROM SENSE RES TO POTOMAC DCR	U3500.D2	J3500.2	?	?	SPKRAMP_FIL_R_T_OUT_P FROM SPKRAMP TO B2B DCR	U3500.C2	J3500.1	?	?	SPKRAMP_FIL_R_T_OUT_M FROM SPKRAMP TO B2B DCR	Q8581.1	U6100.D8	?	?	PPVCC_HIGH FROM Q8581 TO ADAMS REAR DCR	Q8581.1	U6900.D8	?	?	PPVCC_HIGH FROM Q8581 TO ADAMS FRONT DCR	Q8580.1	U6100.A3	?	?	PPVCC_MAIN FROM Q8581 TO ADAMS REAR DCR	Q8580.1	U6900.A3	?	?	PPVCC_MAIN FROM Q8581 TO ADAMS FRONT DCR	U6900.D7	FL2851.1	?	?	PP2V85_SWIDE_FCM FROM FRONT ADAMS TO FERRITE DCR	U6100.D7	FL6603.1	?	?	PP2V85_SWIDE_RCM FROM REAR ADAMS TO FERRITE DCR	U6100.E7	FL6503.1	?	?	PP2V85_WIDE_RCM FROM REAR ADAMS TO FERRITE DCR	U4000.B5	R38B1.1	?	?	R5_USB_SOC_M DCR	U4000.A5	R38B0.1	?	?	R5_USB_SOC_P DCR	R38B1.2	U3800.H21	?	?	R5_USB_SOC_M_N DCR	R38B0.2	U3800.H19	?	?	R5_USB_SOC_P_N DCR	R38A3.1	J3700.17	?	?	ACE_USB_ROT_CONN_M DCR	R38A2.1	J3700.15	?	?	ACE_USB_ROT_CONN_P DCR	U3800.J22	R38A3.2	?	?	ACE_USB_ROT_M DCR	U3800.J20	R38A2.2	?	?	ACE_USB_ROT_P DCR	R38A1.1	J3700.9	?	?	ACE_USB_TOP_CONN_M DCR	R38A0.1	J3700.11	?	?	ACE_USB_TOP_CONN_P DCR	U3800.K21	R38A1.2	?	?	ACE_USB_TOP_M DCR	U3800.K19	R38A0.2	?	?	ACE_USB_TOP_P DCR	U4701.A3	J4801.47	?	?	PP_LUNE_OUT FROM LUNE TO BOON B2B DCR
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BOM_COST_GROUP=NO_COST_ITEMS	
PAGE TITLE	TEST: DCR TABLE

POWER CONNECTIONS

