

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
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X260 MLB - CBB															
LAST_MODIFICATION=Thu Sep 10 15:22:41 2015															
PAGE		<CSA>	CONTENTS		SYNC		DATE		PAGE		<CSA>	CONTENTS		SYNC DATE	
1		1	page1		MASTER		MASTER		46		76	page78		DEVMLB 05/13/2015	
2		2	page2		J43_MLB		10/24/2012		47		78	page79		DEVMLB 05/11/2015	
3		3	page3		J43_MLB		10/24/2012		48		79	page80		DEVMLB 05/11/2015	
4		4	page4		J43_MLB		10/24/2012		49		80	page81		DEVMLB 05/11/2015	
5		5	page5		DEVMLB		05/11/2015		50		81	page82		DEVMLB 04/30/2015	
6		6	page6		DEVMLB		05/11/2015		51		82	page83		DEVMLB 05/06/2015	
7		7	page7		DEVMLB		04/14/2015		52		83	page84		DEVMLB 05/11/2015	
8		8	page8		DEVMLB		05/11/2015		53		84	page85		DEVMLB 03/16/2015	
9		9	page9		DEVMLB		05/11/2015		54		85	page86		DEVMLB 05/11/2015	
10		10	page10		DEVMLB		04/14/2015		55		86	page87		DEVMLB 05/13/2015	
11		11	page11		DEVMLB		04/14/2015		56		87	page88		DEVMLB 05/11/2015	
12		12	page12		DEVMLB		05/06/2015		57		88	page90		DEVMLB 05/11/2015	
13		13	page13		DEVMLB		05/11/2015		58		90	page91		DEVMLB 05/11/2015	
14		14	page14		DEVMLB		05/11/2015		59		91	page93		DEVMLB 05/13/2015	
15		15	page15		DEVMLB		05/11/2015		60		93	page96		DEVMLB 05/13/2015	
16		16	page16		DEVMLB		05/11/2015		61		96	page100		DEVMLB 03/16/2015	
17		17	page17		DEVMLB		05/11/2015		62		100	page102		J43_MLB 10/24/2012	
18		19	page19		DEVMLB		05/11/2015		63		102	page103		DEVMLB 04/30/2015	
19		20	page20		DEVMLB		05/04/2015		64		103	page104		J92_DEVMLB 07/08/2014	
20		22	page22		DEVMLB		04/14/2015		65		104	page105		J92_DEVMLB 07/08/2014	
21		23	page23		DEVMLB		04/14/2015		66		105	page120		J41_MLB 10/24/2012	
22		25	page25		DEVMLB		04/14/2015		67		120	page130		J92_LAYOUT_STUDY_MLB 05/18/2015	
23		30	page30		DEVMLB		04/09/2015				130	MASTER		MASTER	
24		31	page31		DEVMLB		05/11/2015				<CSA_PAGE69>	<SYNC_MASTER69>		<SYNC_DATE69>	
25		37	page37		J72_MLB		05/13/2015				<CSA_PAGE70>	<SYNC_MASTER70>		<SYNC_DATE70>	
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35		55	page55		DEVMLB		03/16/2015				<CSA_PAGE80>	<SYNC_MASTER80>		<SYNC_DATE80>	
36		61	page61		J92_DEVMLB		07/23/2013				<CSA_PAGE81>	<SYNC_MASTER81>		<SYNC_DATE81>	
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42		70	page71		DEVMLB		05/11/2015				<CSA_PAGE87>	<SYNC_MASTER87>		<SYNC_DATE87>	
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45		74	page76		DEVMLB		05/11/2015				<CSA_PAGE90>	<SYNC_MASTER90>		<SYNC_DATE90>	
ALIASES RESOLVED															
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Schematic / PCB #'s															
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									BRANCH		<BRANCH>				
									PAGE		1 OF 130				
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	Alternate Parts																																																																				
C	BOM Groups																																																																				
	<table><tr><td>BOM GROUP</td><td>BOM OPTIONS</td></tr><tr><td>MLB_COMMON</td><td>ALTERNATE,COMMON,MLB_MISC,MLB_DEBUG:ENG,MLB_PROGPARTS,BUILD:CBB</td></tr><tr><td>MLB_MISC</td><td>CAM_FREQ:24M,CAM_XTAL:NO,SSDRAM:4GBIT,S3X:B0,UPC:A1,PCH24M:SUS,EQ:4CH,PMIC:A0D,BSSB_GP10</td></tr><tr><td>MLB_DEBUG:ENG</td><td>DEBUGLED</td></tr></table>		BOM GROUP	BOM OPTIONS	MLB_COMMON	ALTERNATE,COMMON,MLB_MISC,MLB_DEBUG:ENG,MLB_PROGPARTS,BUILD:CBB	MLB_MISC	CAM_FREQ:24M,CAM_XTAL:NO,SSDRAM:4GBIT,S3X:B0,UPC:A1,PCH24M:SUS,EQ:4CH,PMIC:A0D,BSSB_GP10	MLB_DEBUG:ENG	DEBUGLED																																																											
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B	CPU DRAM SPD Straps																																																																				
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A	Programmable Parts																																																																				
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	<table><tr><td>PART NUMBER</td><td>QTY</td><td>DESCRIPTION</td><td>REFERENCE DES</td><td>CRITICAL</td><td>BOM OPTION</td></tr><tr><td>337S00175</td><td>1</td><td>IC,S3-X,B0</td><td>U8600</td><td>CRITICAL</td><td>S3X:B0</td></tr><tr><td>333S00017</td><td>1</td><td>IC,LPODR3-1600,128MX8,1.8V,25NM,276 POP</td><td>U8600_POP_DRAM</td><td>CRITICAL</td><td>SSDRAM:4GBIT</td></tr><tr><td>335S1030</td><td>2</td><td>NAND,T0G DDR2,2CH,64GB,1YNM,3.3V,LGA60</td><td>U9100,U9120</td><td>CRITICAL</td><td>NAND:64GB</td></tr><tr><td>335S00050</td><td>2</td><td>NAND,T0G DDR2,2CH,128GB,1YNM,3.3V,LGA60</td><td>U9100,U9120</td><td>CRITICAL</td><td>NAND:128GB</td></tr><tr><td>335S00051</td><td>2</td><td>NAND,T0G DDR2,2CH,256GB,1YNM,3.3V,LGA60</td><td>U9100,U9120</td><td>CRITICAL</td><td>NAND:256GB</td></tr><tr><td>335S00121</td><td>2</td><td>NAND,T0G DDR2,2CH,128GB,1YNM,3.3V,LGA60</td><td>U9100,U9120</td><td>CRITICAL</td><td>NAND:128GB_SAND</td></tr><tr><td>335S00122</td><td>2</td><td>NAND,T0G DDR2,2CH,256GB,1YNM,3.3V,LGA60</td><td>U9100,U9120</td><td>CRITICAL</td><td>NAND:256GB_SAND</td></tr></table>		PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION	337S00175	1	IC,S3-X,B0	U8600	CRITICAL	S3X:B0	333S00017	1	IC,LPODR3-1600,128MX8,1.8V,25NM,276 POP	U8600_POP_DRAM	CRITICAL	SSDRAM:4GBIT	335S1030	2	NAND,T0G DDR2,2CH,64GB,1YNM,3.3V,LGA60	U9100,U9120	CRITICAL	NAND:64GB	335S00050	2	NAND,T0G DDR2,2CH,128GB,1YNM,3.3V,LGA60	U9100,U9120	CRITICAL	NAND:128GB	335S00051	2	NAND,T0G DDR2,2CH,256GB,1YNM,3.3V,LGA60	U9100,U9120	CRITICAL	NAND:256GB	335S00121	2	NAND,T0G DDR2,2CH,128GB,1YNM,3.3V,LGA60	U9100,U9120	CRITICAL	NAND:128GB_SAND	335S00122	2	NAND,T0G DDR2,2CH,256GB,1YNM,3.3V,LGA60	U9100,U9120	CRITICAL	NAND:256GB_SAND																			
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8GB,TOSH 128G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.1GHZ,DRAM:HYN_8GB,SSD:128GB,WIFI:FCC</td></tr><tr><td>639-6671</td><td>PCBA,MLB,1.2GHZ,EL 8GB,TOSH 256G,WIFI ETSI,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:ELP_8GB,SSD:256GB,WIFI:ETSI</td></tr><tr><td>639-6672</td><td>PCBA,MLB,1.2GHZ,SA 8GB,TOSH 512G,WIFI APAC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:512GB,WIFI:APAC</td></tr><tr><td>639-6673</td><td>PCBA,MLB,1.2GHZ,EL 8GB,SAND 256G,WIFI ETSI,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:ELP_8GB,SSD:256GB_SAND,WIFI:ETSI</td></tr><tr><td>639-6674</td><td>PCBA,MLB,1.3GHZ,EL 8GB,SAND 256G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:ELP_8GB,SSD:256GB_SAND,WIFI:FCC</td></tr><tr><td>639-6675</td><td>PCBA,MLB,1.3GHZ,SA 8GB,SAND 512G,WIFI APAC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:APAC</td></tr><tr><td>639-6676</td><td>PCBA,MLB,1.2GHZ,EL 8GB,SAND 256G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:ELP_8GB,SSD:256GB_SAND,WIFI:FCC</td></tr><tr><td>639-6677</td><td>PCBA,MLB,1.3GHZ,SA 8GB,SAND 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC</td></tr><tr><td>639-6678</td><td>PCBA,MLB,1.3GHZ,HY 8GB,SAND 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:HYN_8GB,SSD:512GB_SAND,WIFI:FCC</td></tr><tr><td>639-6679</td><td>PCBA,MLB,1.2GHZ,HY 8GB,SAND 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:HYN_8GB,SSD:512GB_SAND,WIFI:FCC</td></tr><tr><td>639-6680</td><td>PCBA,MLB,1.1GHZ,HY 8GB,TOSH 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.1GHZ,DRAM:HYN_8GB,SSD:512GB,WIFI:FCC</td></tr><tr><td>639-6681</td><td>PCBA,MLB,1.2GHZ,HY 8GB,TOSH 256G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:HYN_8GB,SSD:256GB,WIFI:FCC</td></tr><tr><td rowspan="13">C</td><td>639-6682</td><td>PCBA,MLB,1.2GHZ,SA 8GB,SAND 256G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:FCC</td></tr><tr><td>639-6683</td><td>PCBA,MLB,1.3GHZ,SA 8GB,SAND 256G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:FCC</td></tr><tr><td>639-6684</td><td>PCBA,MLB,1.1GHZ,SA 8GB,SAND 512G,WIFI ETSI,X260</td><td>ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:ETSI</td></tr><tr><td>639-6685</td><td>PCBA,MLB,1.2GHZ,SA 8GB,SAND 256G,WIFI IND,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:IND</td></tr><tr><td>639-6686</td><td>PCBA,MLB,1.3GHZ,HY 8GB,TOSH 128G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:HYN_8GB,SSD:128GB,WIFI:FCC</td></tr><tr><td>639-6687</td><td>PCBA,MLB,1.1GHZ,SA 8GB,TOSH 128G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:128GB,WIFI:FCC</td></tr><tr><td>639-6688</td><td>PCBA,MLB,1.1GHZ,HY 8GB,TOSH 256G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.1GHZ,DRAM:HYN_8GB,SSD:256GB,WIFI:FCC</td></tr><tr><td>639-6689</td><td>PCBA,MLB,1.1GHZ,SA 8GB,SAND 256G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:FCC</td></tr><tr><td>639-6690</td><td>PCBA,MLB,1.1GHZ,SA 8GB,SAND 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC</td></tr><tr><td>639-6691</td><td>PCBA,MLB,1.2GHZ,HY 8GB,TOSH 128G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:HYN_8GB,SSD:128GB,WIFI:FCC</td></tr><tr><td>639-6692</td><td>PCBA,MLB,1.2GHZ,SA 8GB,TOSH 128G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:128GB,WIFI:FCC</td></tr><tr><td>639-6693</td><td>PCBA,MLB,1.2GHZ,SA 8GB,TOSH 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC</td></tr><tr><td>639-6694</td><td>PCBA,MLB,1.3GHZ,SA 8GB,TOSH 128G,WIFI FCC,X260</td><td>ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:128GB,WIFI:FCC</td></tr><tr><td rowspan="20">B</td><td 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FCC,X260</td><td>ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC</td></tr><tr><td>939-01880</td><td>PCBA,MLB,NO CPU,SA 8GB,SAND 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC</td></tr></table></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td colspan="14"></td></tr><tr><td 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FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:HYN_8GB,SSD:512GB,WIFI:FCC	639-6668	PCBA,MLB,1.3GHZ,SA 8GB,TOSH 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:256GB,WIFI:FCC	639-6669	PCBA,MLB,1.3GHZ,SA 8GB,TOSH 512G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC	639-6670	PCBA,MLB,1.1GHZ,HY 8GB,TOSH 128G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.1GHZ,DRAM:HYN_8GB,SSD:128GB,WIFI:FCC	639-6671	PCBA,MLB,1.2GHZ,EL 8GB,TOSH 256G,WIFI ETSI,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:ELP_8GB,SSD:256GB,WIFI:ETSI	639-6672	PCBA,MLB,1.2GHZ,SA 8GB,TOSH 512G,WIFI APAC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:512GB,WIFI:APAC	639-6673	PCBA,MLB,1.2GHZ,EL 8GB,SAND 256G,WIFI ETSI,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:ELP_8GB,SSD:256GB_SAND,WIFI:ETSI	639-6674	PCBA,MLB,1.3GHZ,EL 8GB,SAND 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:ELP_8GB,SSD:256GB_SAND,WIFI:FCC	639-6675	PCBA,MLB,1.3GHZ,SA 8GB,SAND 512G,WIFI APAC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:APAC	639-6676	PCBA,MLB,1.2GHZ,EL 8GB,SAND 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:ELP_8GB,SSD:256GB_SAND,WIFI:FCC	639-6677	PCBA,MLB,1.3GHZ,SA 8GB,SAND 512G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC	639-6678	PCBA,MLB,1.3GHZ,HY 8GB,SAND 512G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:HYN_8GB,SSD:512GB_SAND,WIFI:FCC	639-6679	PCBA,MLB,1.2GHZ,HY 8GB,SAND 512G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:HYN_8GB,SSD:512GB_SAND,WIFI:FCC	639-6680	PCBA,MLB,1.1GHZ,HY 8GB,TOSH 512G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.1GHZ,DRAM:HYN_8GB,SSD:512GB,WIFI:FCC	639-6681	PCBA,MLB,1.2GHZ,HY 8GB,TOSH 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:HYN_8GB,SSD:256GB,WIFI:FCC	C	639-6682	PCBA,MLB,1.2GHZ,SA 8GB,SAND 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:FCC	639-6683	PCBA,MLB,1.3GHZ,SA 8GB,SAND 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:FCC	639-6684	PCBA,MLB,1.1GHZ,SA 8GB,SAND 512G,WIFI ETSI,X260	ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:ETSI	639-6685	PCBA,MLB,1.2GHZ,SA 8GB,SAND 256G,WIFI IND,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:IND	639-6686	PCBA,MLB,1.3GHZ,HY 8GB,TOSH 128G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:HYN_8GB,SSD:128GB,WIFI:FCC	639-6687	PCBA,MLB,1.1GHZ,SA 8GB,TOSH 128G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:128GB,WIFI:FCC	639-6688	PCBA,MLB,1.1GHZ,HY 8GB,TOSH 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.1GHZ,DRAM:HYN_8GB,SSD:256GB,WIFI:FCC	639-6689	PCBA,MLB,1.1GHZ,SA 8GB,SAND 256G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:256GB_SAND,WIFI:FCC	639-6690	PCBA,MLB,1.1GHZ,SA 8GB,SAND 512G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.1GHZ,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC	639-6691	PCBA,MLB,1.2GHZ,HY 8GB,TOSH 128G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:HYN_8GB,SSD:128GB,WIFI:FCC	639-6692	PCBA,MLB,1.2GHZ,SA 8GB,TOSH 128G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:128GB,WIFI:FCC	639-6693	PCBA,MLB,1.2GHZ,SA 8GB,TOSH 512G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.2GHZ,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC	639-6694	PCBA,MLB,1.3GHZ,SA 8GB,TOSH 128G,WIFI FCC,X260	ALTERNATE,CMN,CPU:1.3GHZ,DRAM:SAM_8GB,SSD:128GB,WIFI:FCC	B															B																																																																																																																																																																																																																																															A	Partial & development BOMs														A	<table><tr><th>BOM NUMBER</th><th>BOM NAME</th><th>BOM OPTIONS</th></tr><tr><td>685-00073</td><td>CMN PTS,PCBA,MLB,X260</td><td>MLB_COMMON</td></tr><tr><td>939-01879</td><td>PCBA,MLB,NO CPU,SA 8GB,TOSH 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC</td></tr><tr><td>939-01880</td><td>PCBA,MLB,NO CPU,SA 8GB,SAND 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC</td></tr></table>														BOM NUMBER	BOM NAME	BOM OPTIONS	685-00073	CMN PTS,PCBA,MLB,X260	MLB_COMMON	939-01879	PCBA,MLB,NO CPU,SA 8GB,TOSH 512G,WIFI FCC,X260	ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC	939-01880	PCBA,MLB,NO CPU,SA 8GB,SAND 512G,WIFI FCC,X260	ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</													
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		<table><tr><th>BOM NUMBER</th><th>BOM NAME</th><th>BOM OPTIONS</th></tr><tr><td>685-00073</td><td>CMN PTS,PCBA,MLB,X260</td><td>MLB_COMMON</td></tr><tr><td>939-01879</td><td>PCBA,MLB,NO CPU,SA 8GB,TOSH 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC</td></tr><tr><td>939-01880</td><td>PCBA,MLB,NO CPU,SA 8GB,SAND 512G,WIFI FCC,X260</td><td>ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC</td></tr></table>															BOM NUMBER	BOM NAME	BOM OPTIONS	685-00073	CMN PTS,PCBA,MLB,X260	MLB_COMMON	939-01879	PCBA,MLB,NO CPU,SA 8GB,TOSH 512G,WIFI FCC,X260	ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB,WIFI:FCC	939-01880	PCBA,MLB,NO CPU,SA 8GB,SAND 512G,WIFI FCC,X260	ALTERNATE,CMN,DRAM:SAM_8GB,SSD:512GB_SAND,WIFI:FCC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION																												
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PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION																												
806-00889	1	FENCE,EMI,SSD,TOP,X261	SH0403	CRITICAL																													
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PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION																												
806-05622	1	FENCE,EMI,SSD,BTM,X260	SH0404	CRITICAL																													
870-01557	1	TAPE,CONDUCTIVE,SSD,REEL,X260	SSD_TAPE_BTM	CRITICAL																													
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PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION																												
870-00998	CRITICAL	MYLAR,SHIM,MLB,X261	MYLAR_SHIM																														
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SYNC DATE=10/24/2012

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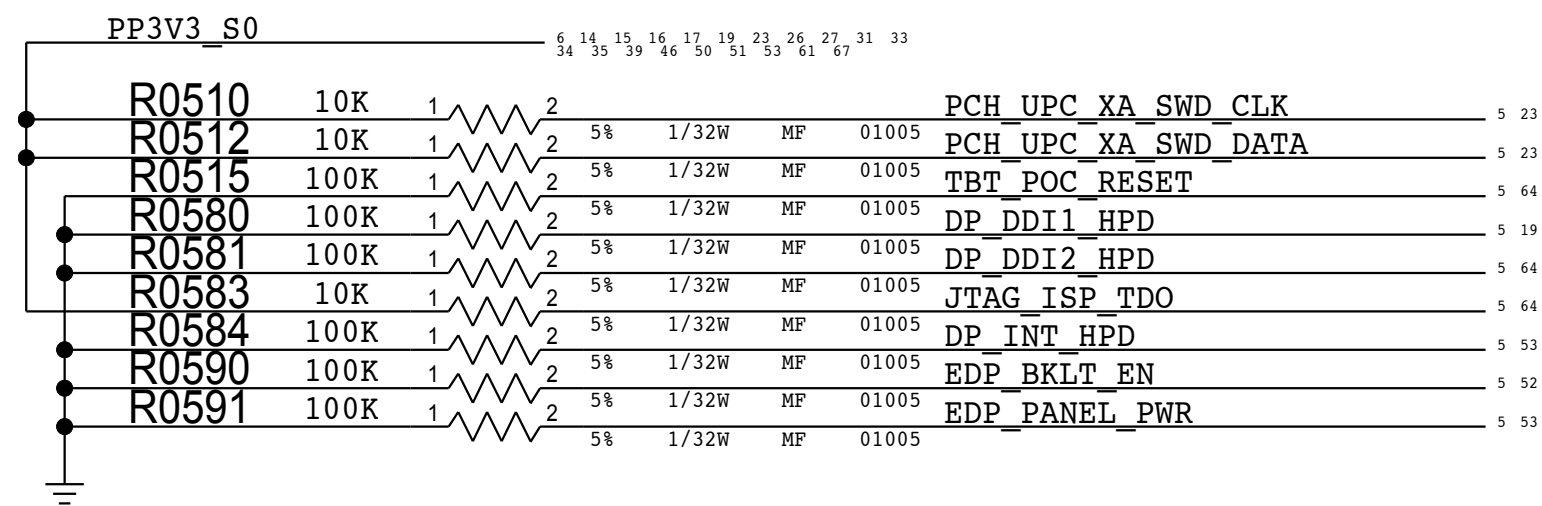
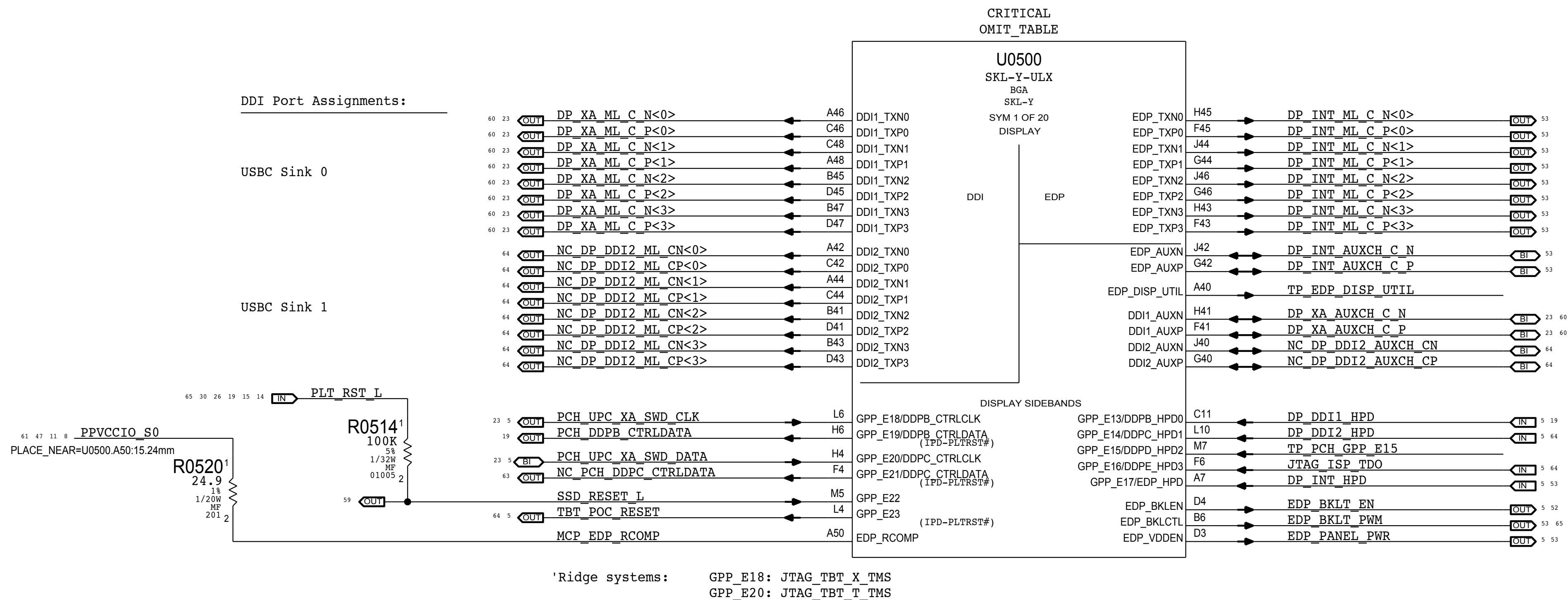
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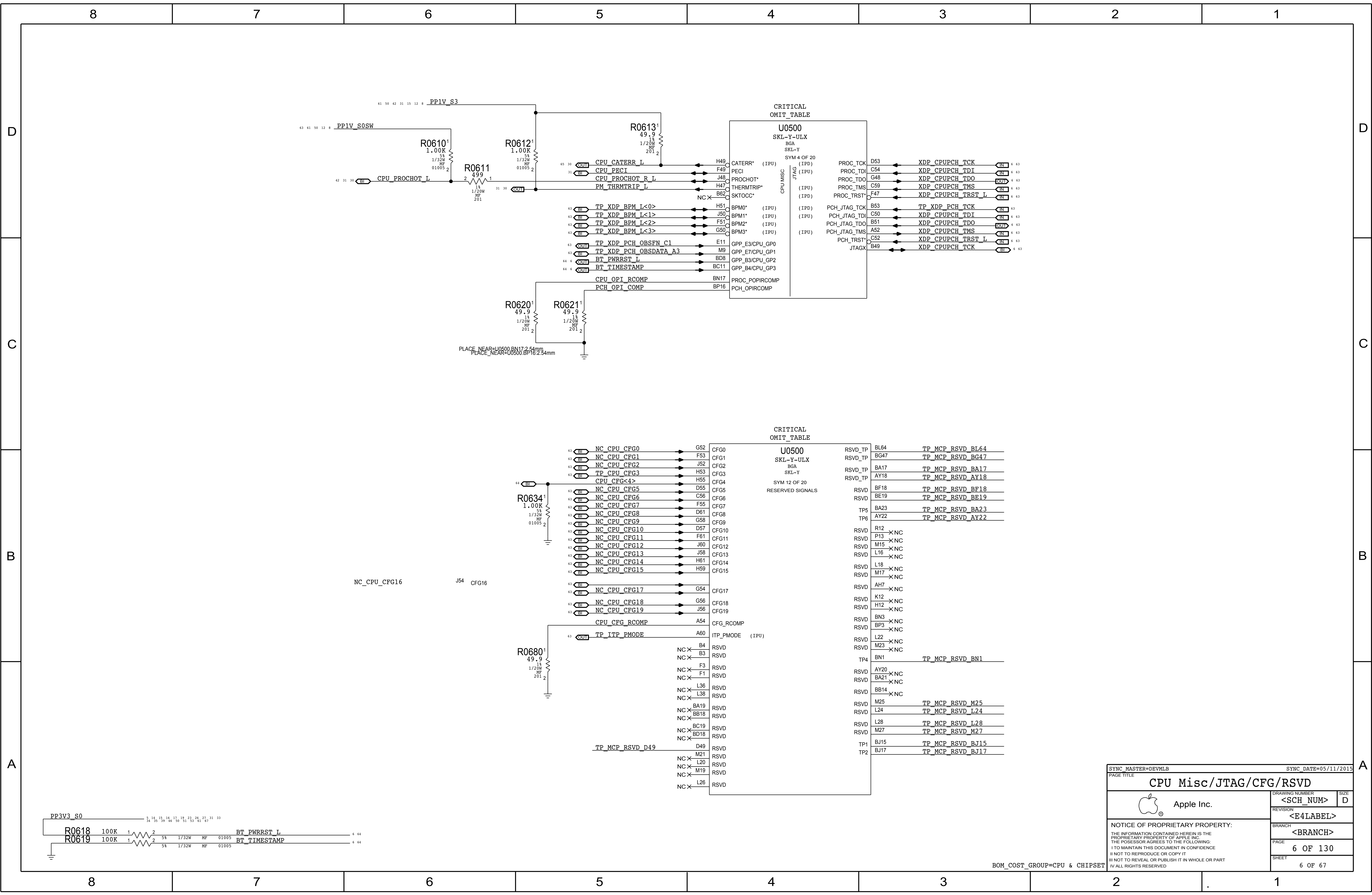
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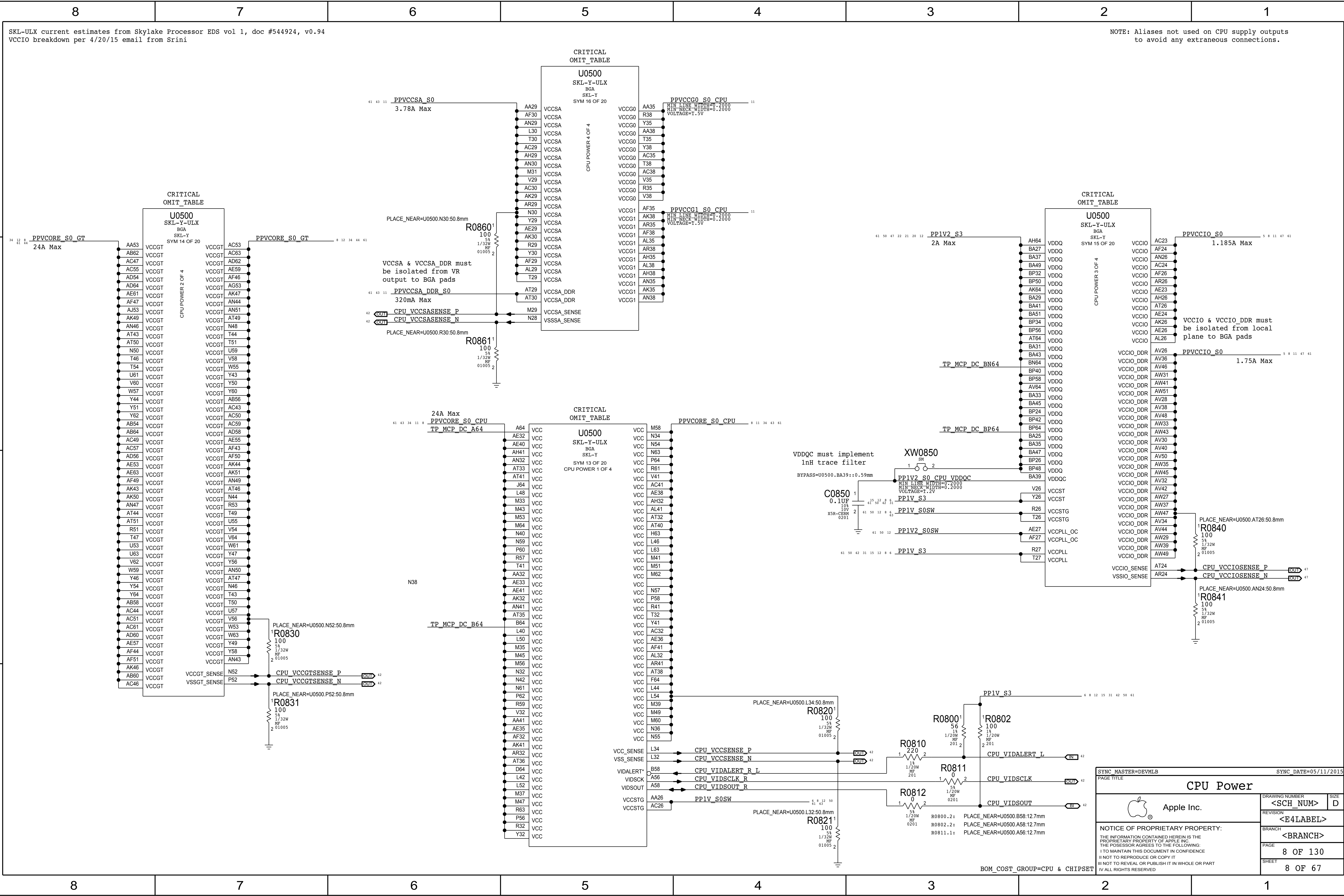
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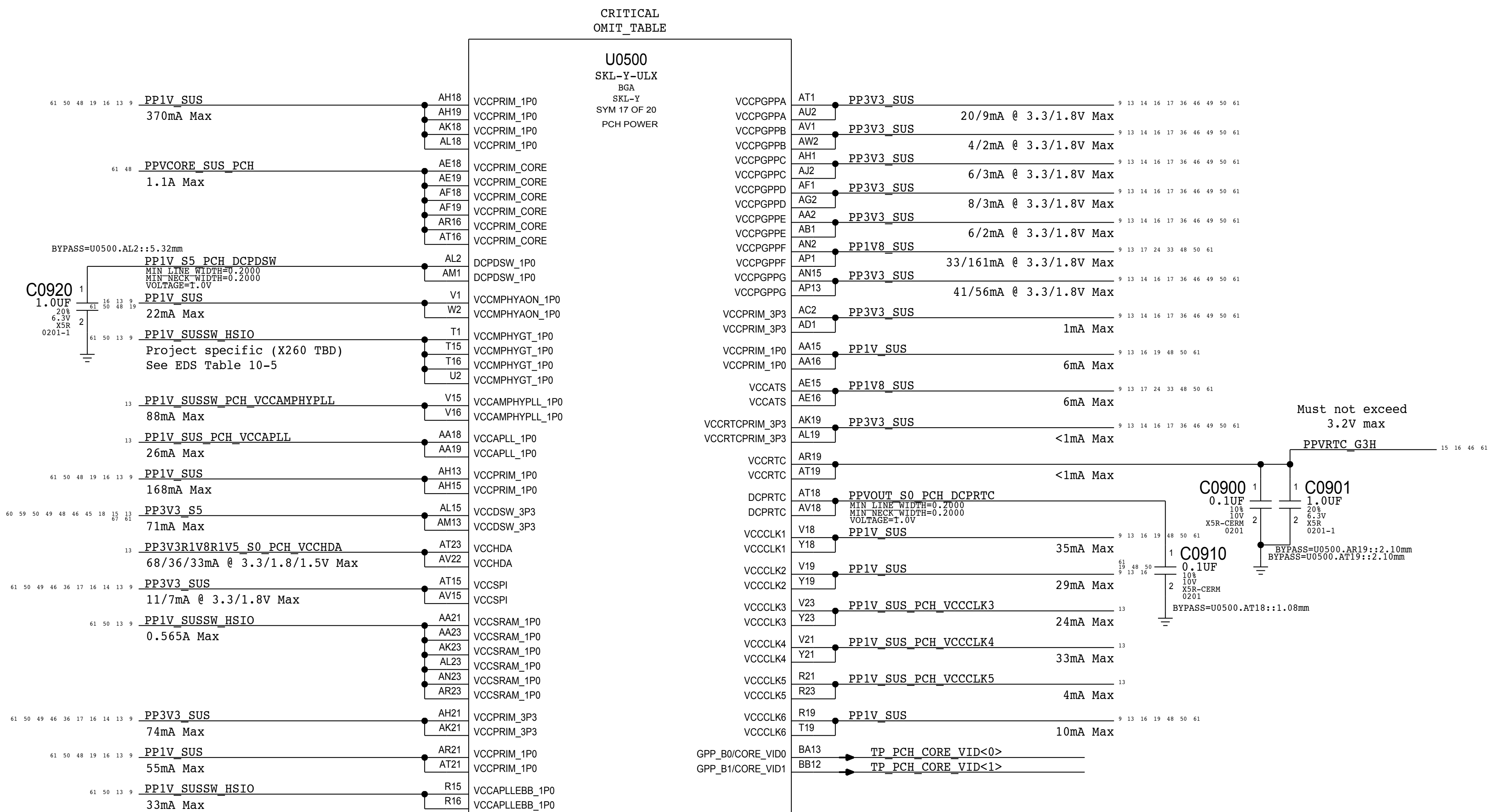
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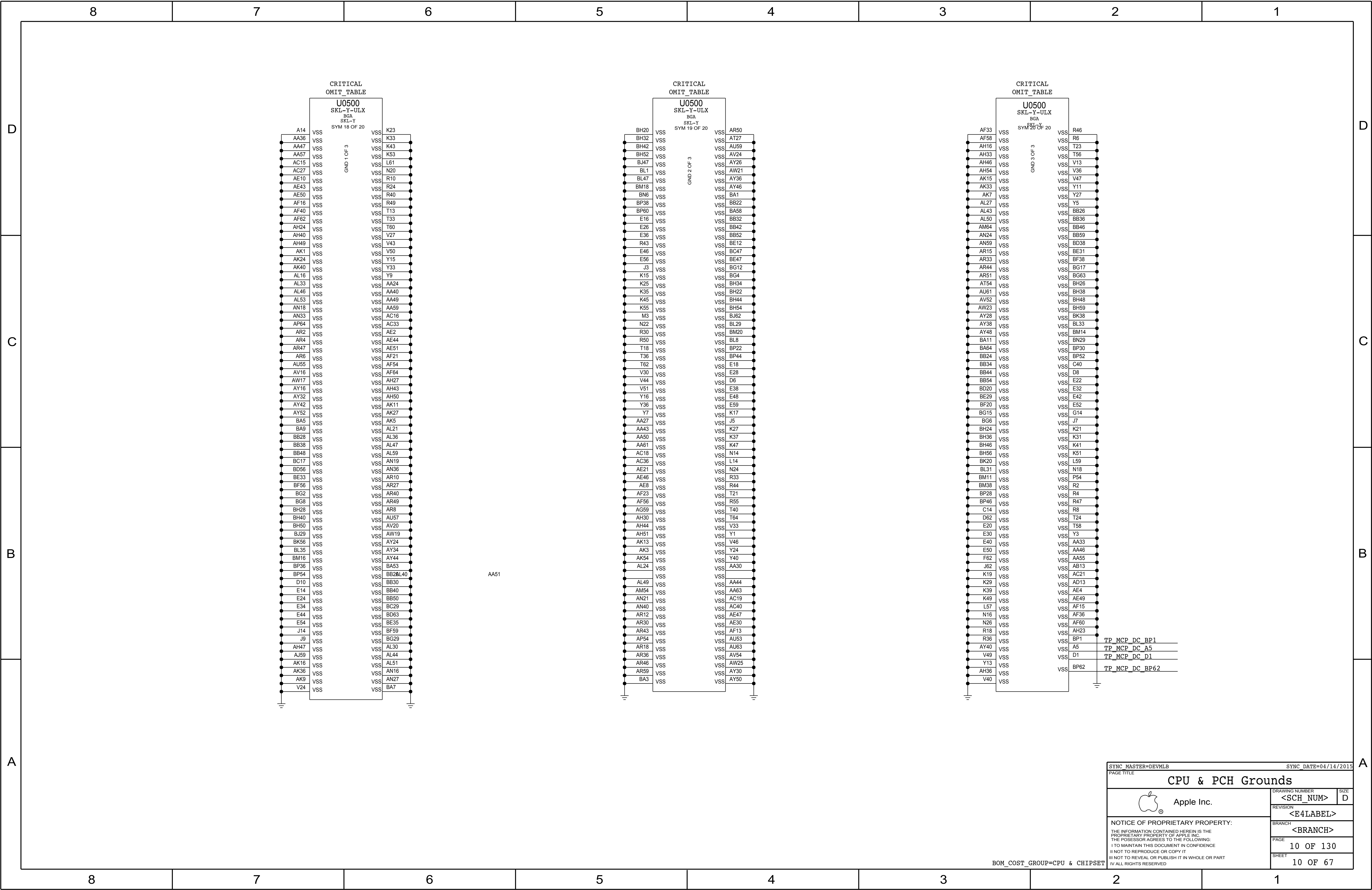




SPT-LP current estimates from Sunrise Point-LP PCH EDS vol 1, doc #545659, v1.2.
VCCAMPHYPLL 1P0 and VCCPRIM 1P0 / VCCPRIM 3P3 breakdowns from Srini email 4/13/15

NOTE: Aliases not used on CPU supply outputs
to avoid any extraneous connections.

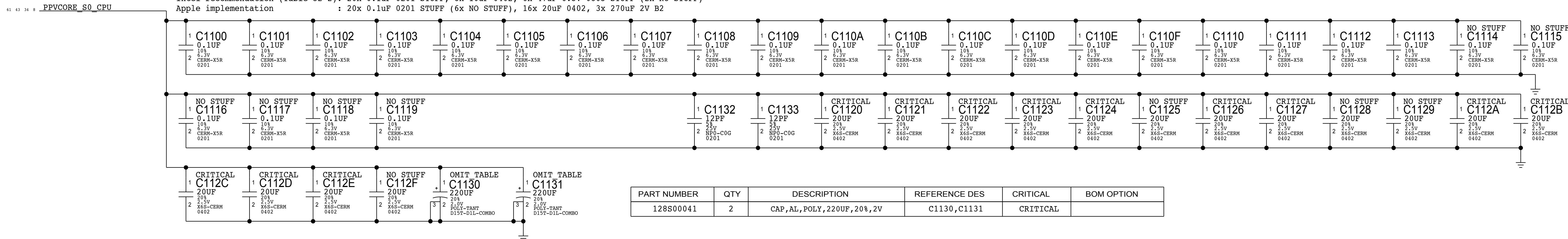




All Intel recommendations from Intel doc #543016 Skylake U and Y Platform Design Guide Rev 1.3 unless stated otherwise
Intel's placeholders are no longer required per 4/20/15 email from Srini

CPU VCORE Decoupling

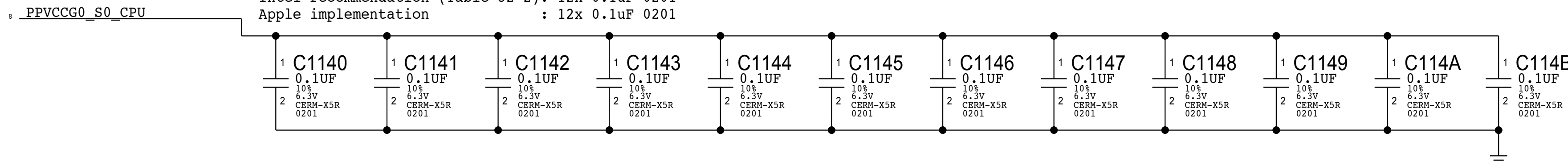
Intel recommendation (Table 52-2): 20x 0.1uF 0201 STUFF, 8x 10uF 0402, 6x 47uF 6.3V 0805 STUFF (2x NO STUFF)
Apple implementation : 20x 0.1uF 0201 STUFF (6x NO STUFF), 16x 20uF 0402, 3x 270uF 2V B2



PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
128S00041	2	CAP,AL,POLY,220UF,20%,2V	C1130,C1131	CRITICAL	

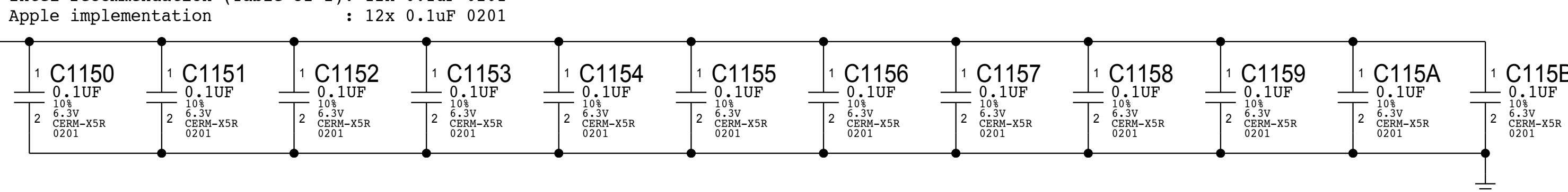
CPU VCORE G0 Decoupling

Intel recommendation (Table 52-2): 12x 0.1uF 0201
Apple implementation : 12x 0.1uF 0201



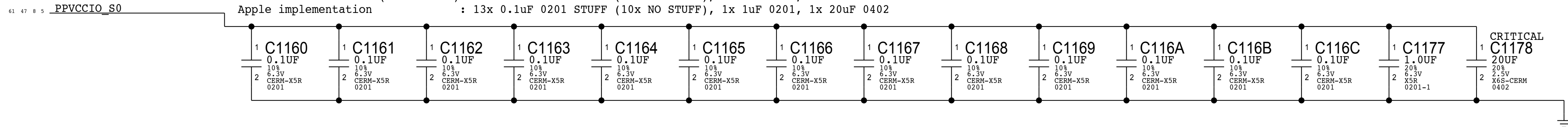
CPU VCORE G1 Decoupling

Intel recommendation (Table 52-2): 12x 0.1uF 0201
Apple implementation : 12x 0.1uF 0201



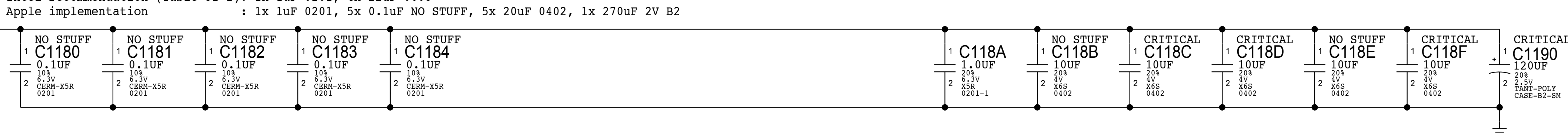
CPU VCCIO Decoupling

Intel recommendation (Table 52-2):	13X 0.1uF 0201 STUFF (10x NO STUFF), 1x 1uF 0402, 1x 22uF 0805
Apple implementation	: 13x 0.1uF 0201 STUFF (10x NO STUFF), 1x 1uF 0201, 1x 20uF 0402



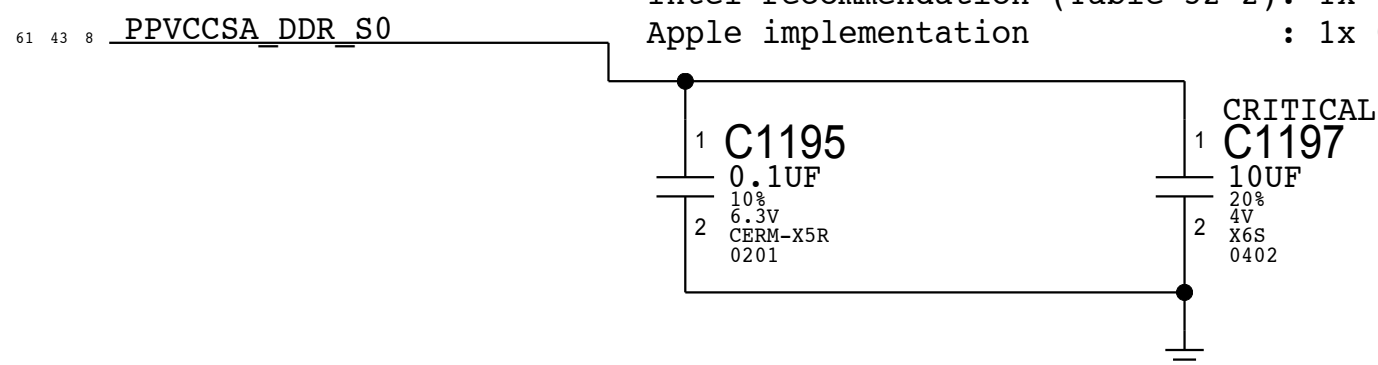
CPU VCCSA Decoupling

Intel recommendation (Table 52-2): 1x 1uF 0201, 4x 22uF 0603
Apple implementation : 1x 1uF 0201, 5x 0.1uF NO STUFF, 5x 20uF 0402, 1x 270uF 2V B2

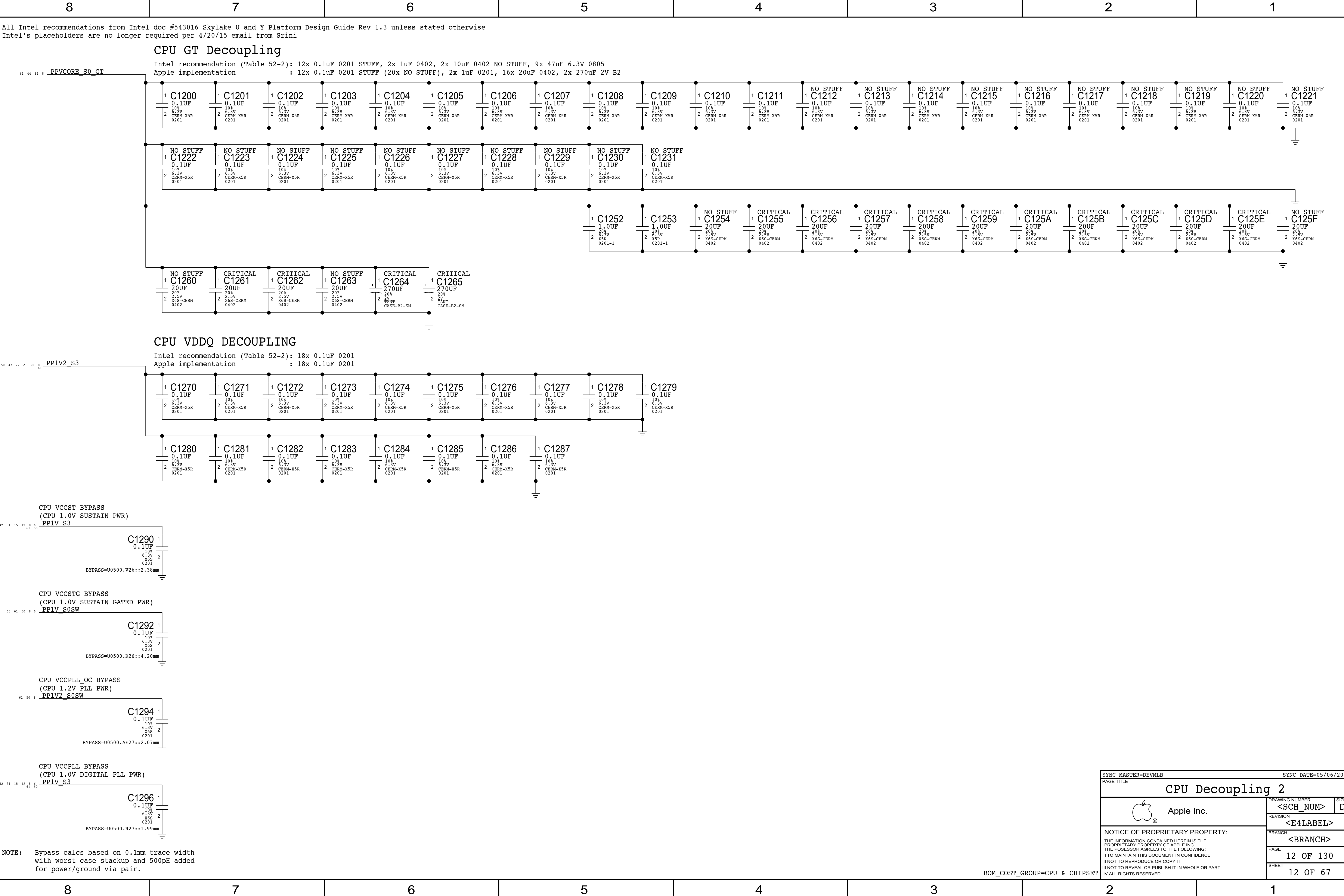


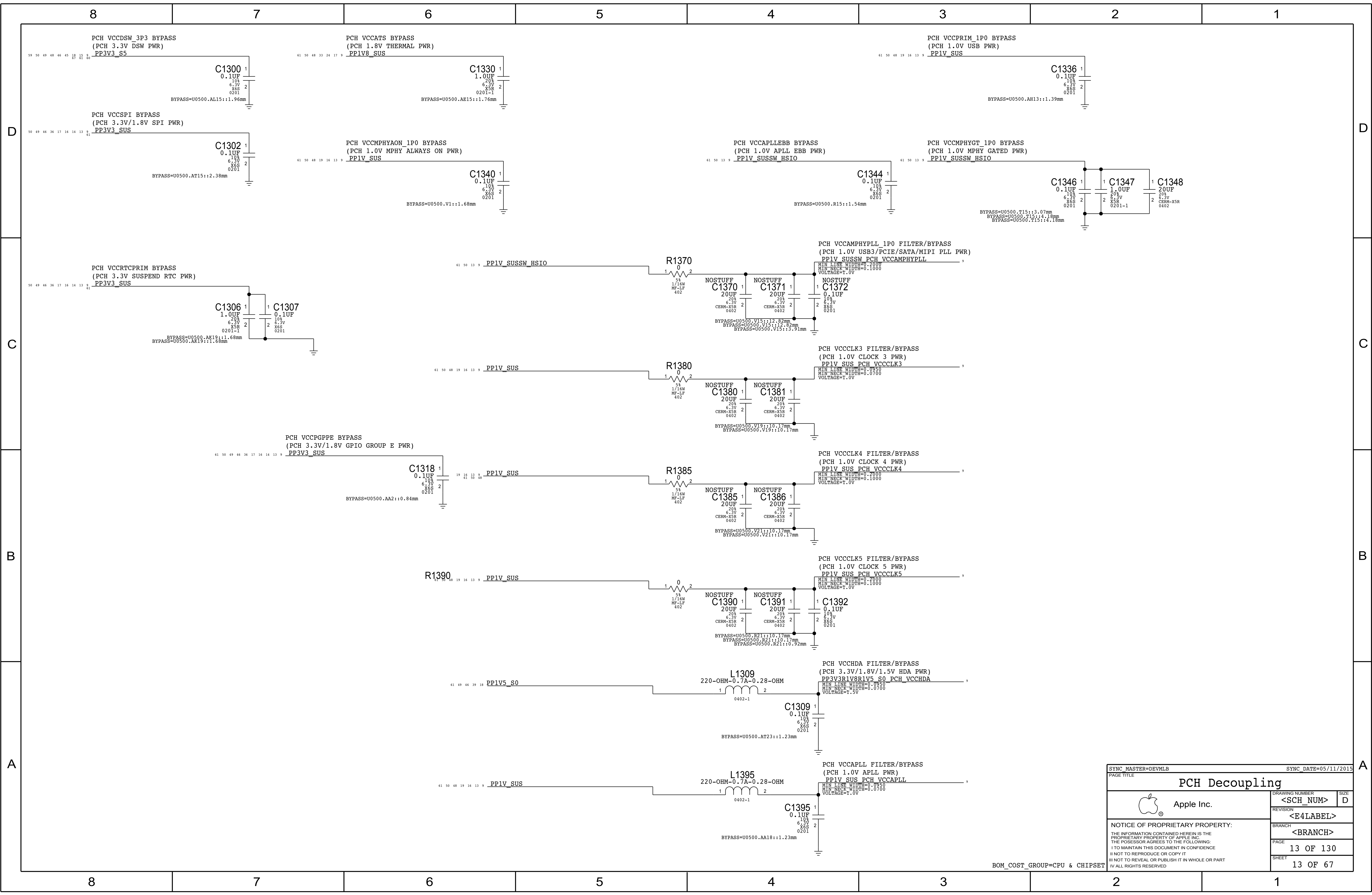
CPU VCCSA DDR Decoupling

Intel recommendation (Table 52-2): 1x 0.1uF 0201 STUFF, 1x 22uF 0603
Apple implementation : 1x 0.1uF 0201 STUFF, 1x 20uF 0402



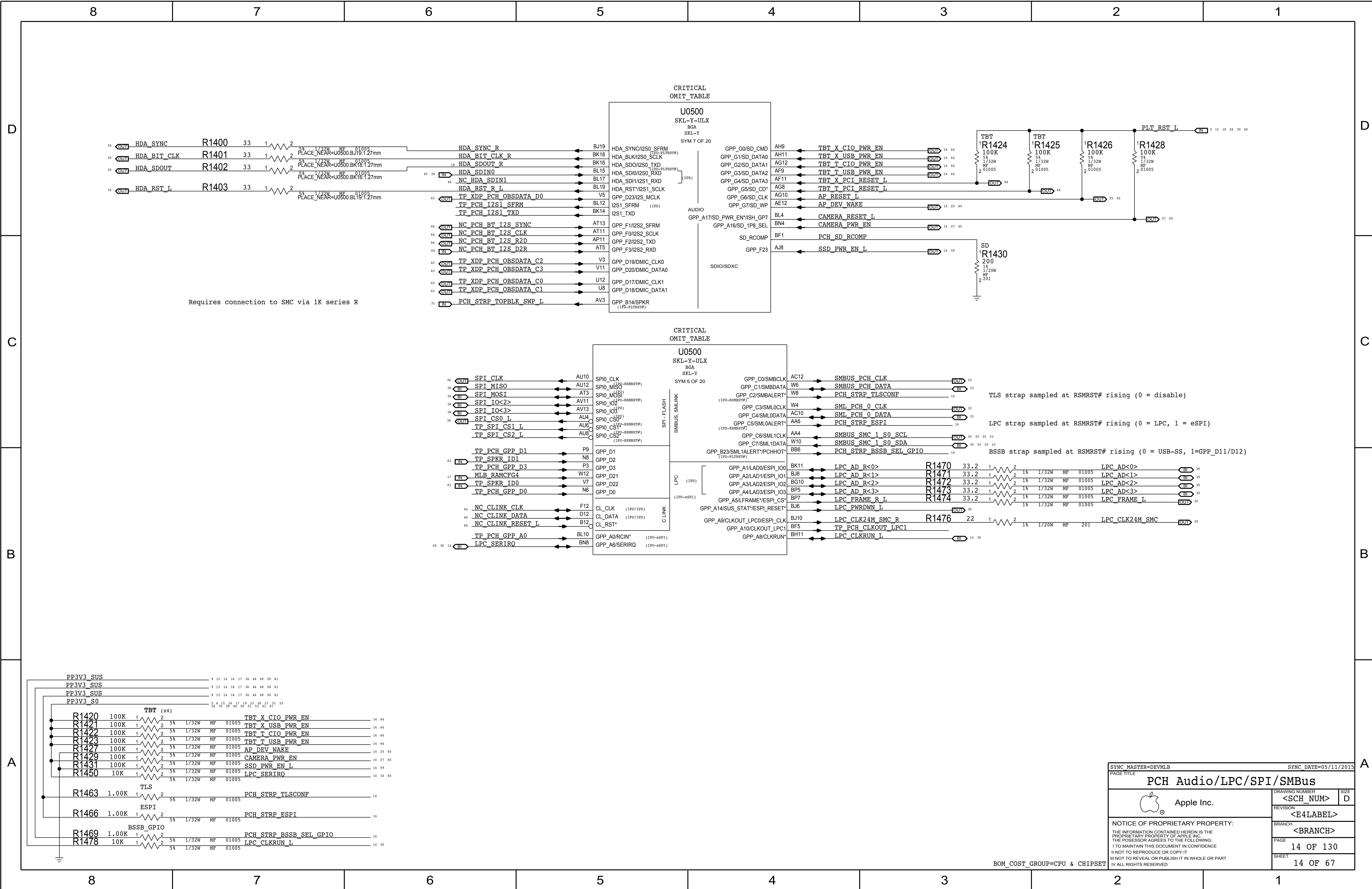
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		PAGE	11 OF 130
		SHEET	11 OF 67





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SHEET			
13 OF 67			

BOM_COST_GROUP=CPU & CHIPSET



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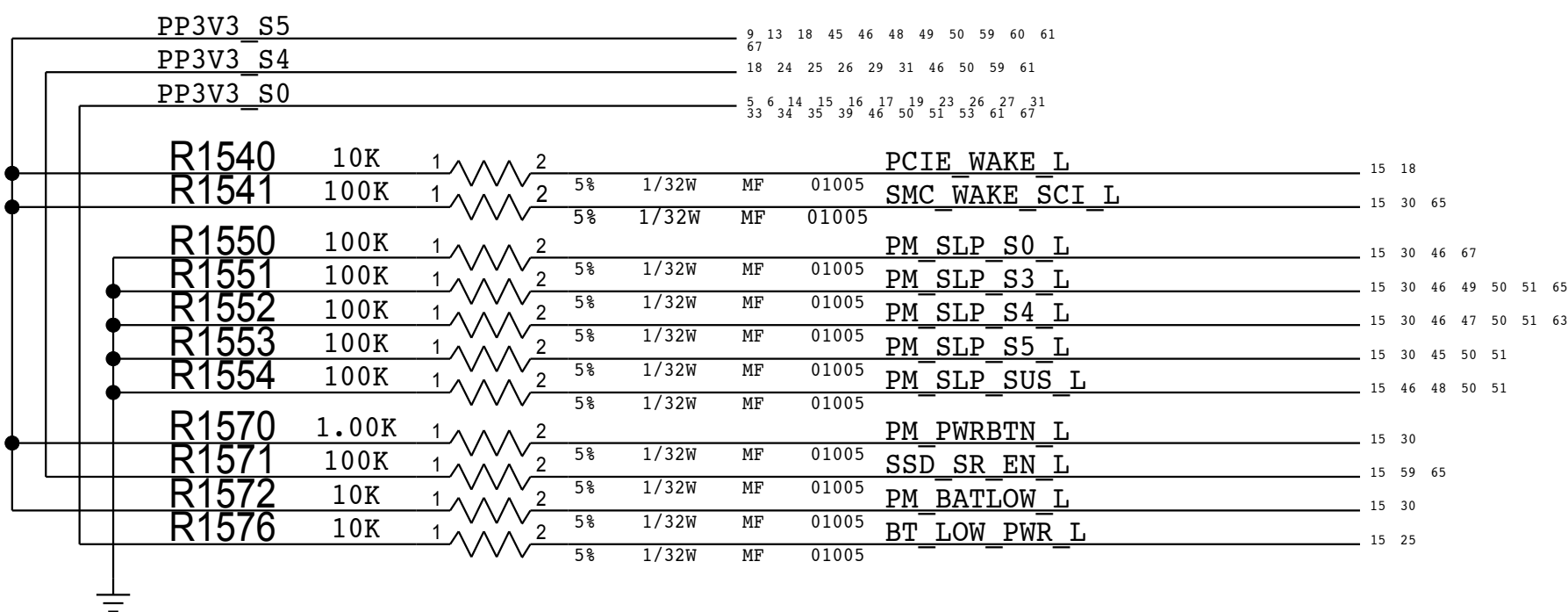
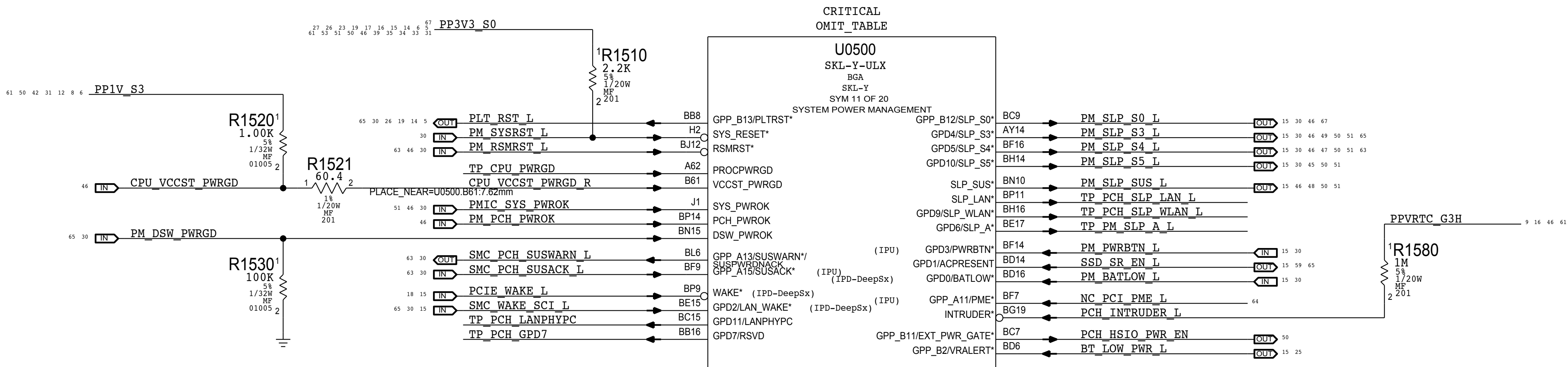
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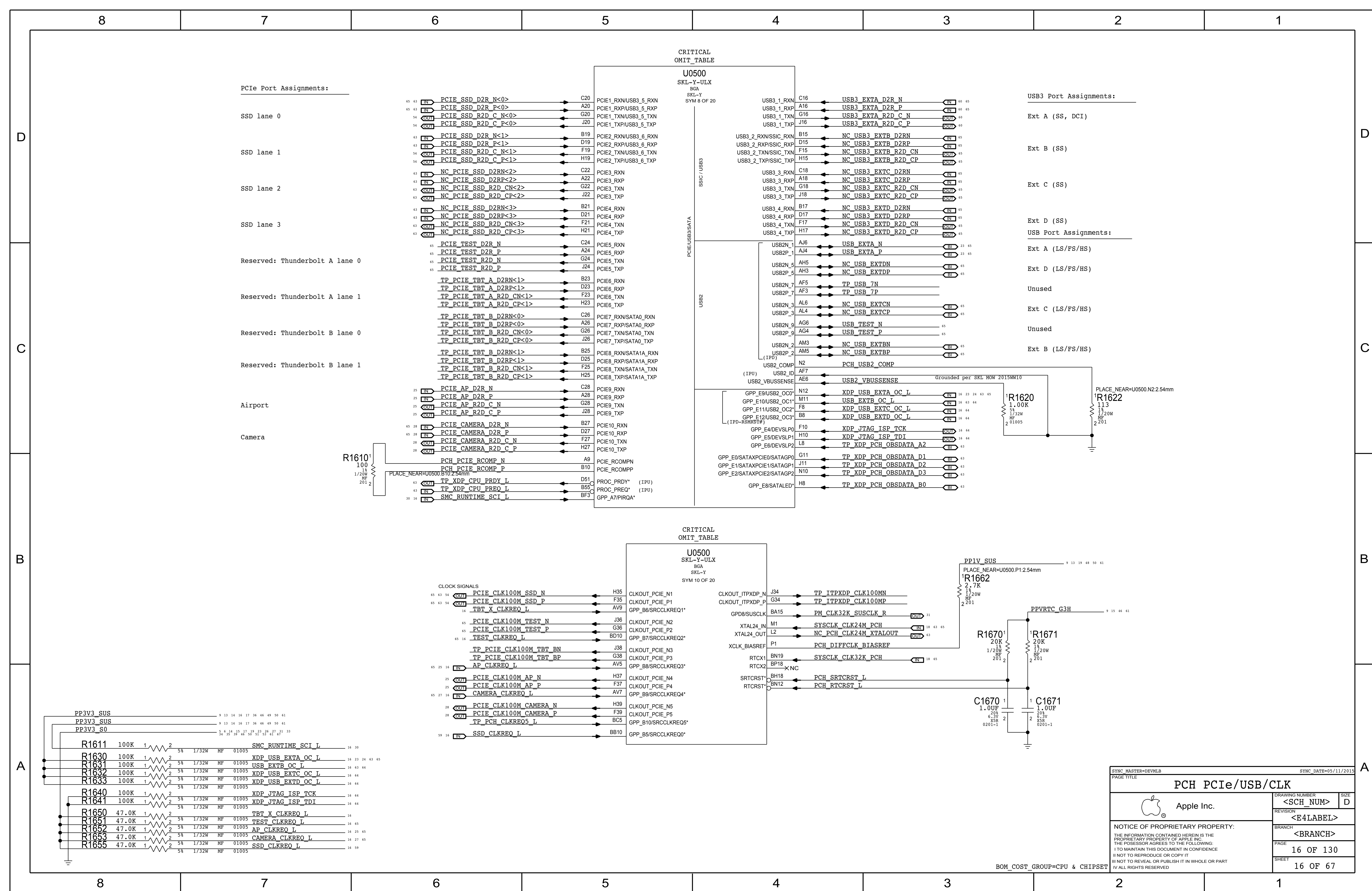
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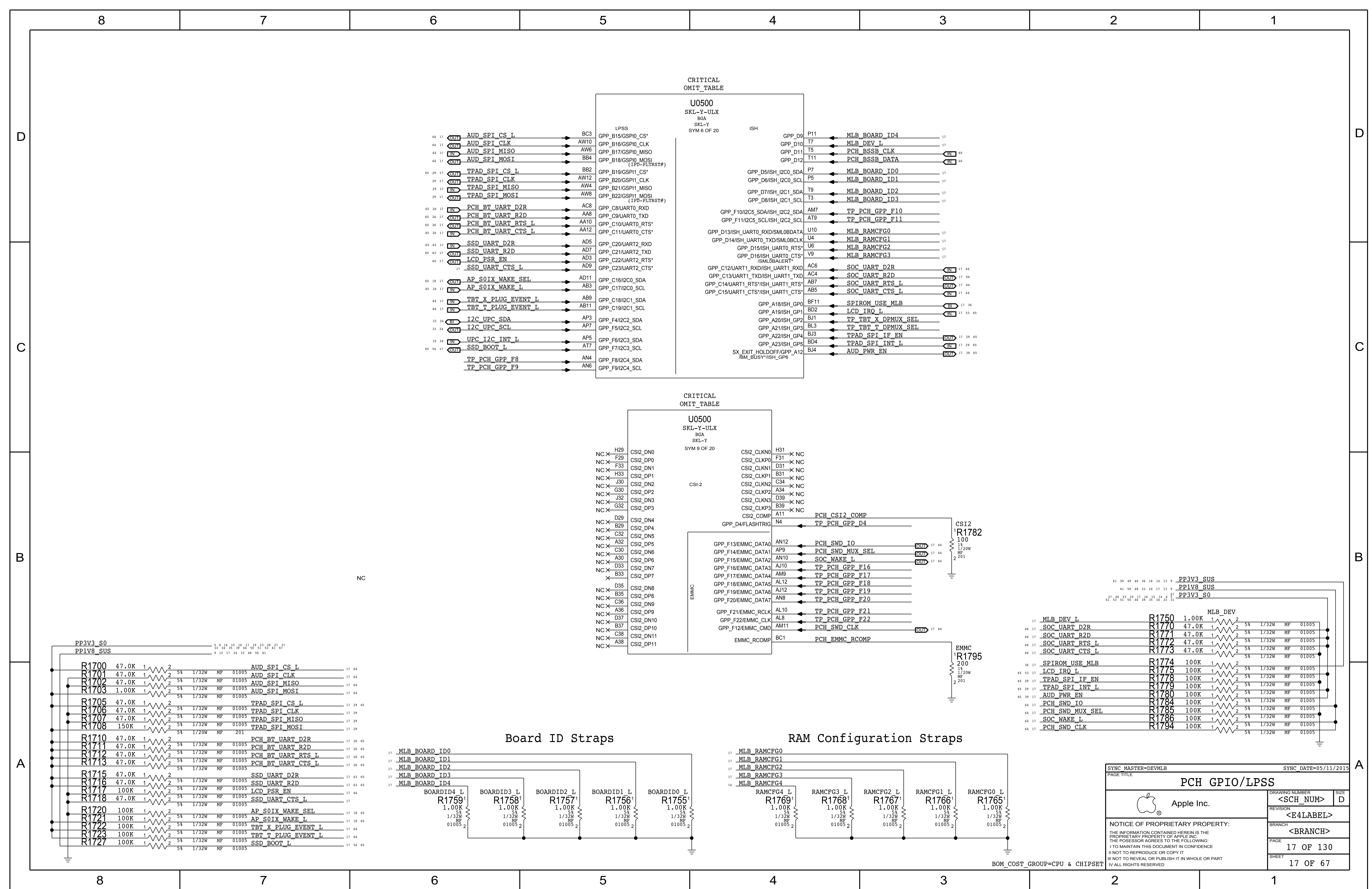
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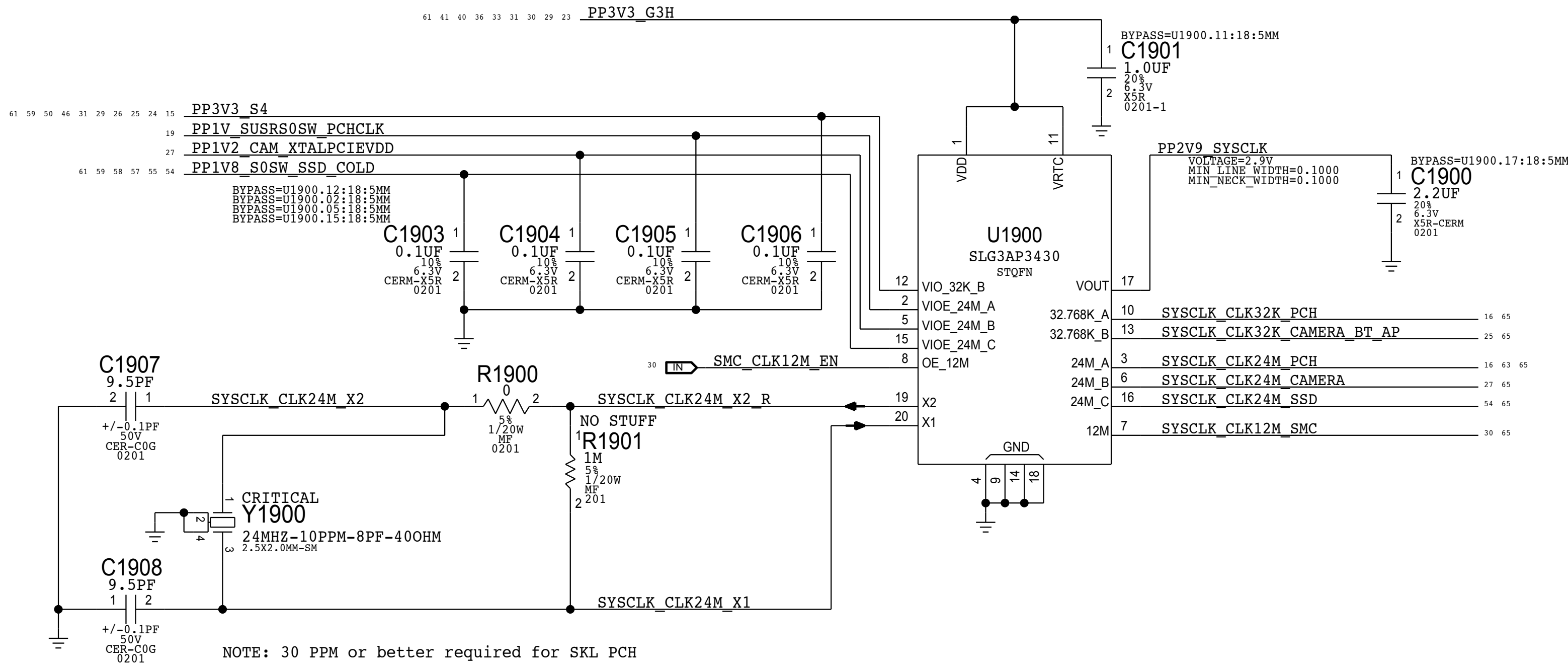
BOM_COST_GROUP=CPU & CHIPSET

SYNC_MASTER=X260_ERIC		SYNC_DATE=06/04/2015	
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PCH Power Management			
 Apple Inc.	DRAWING NUMBER		SIZE
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SHEET			
15 OF 67			

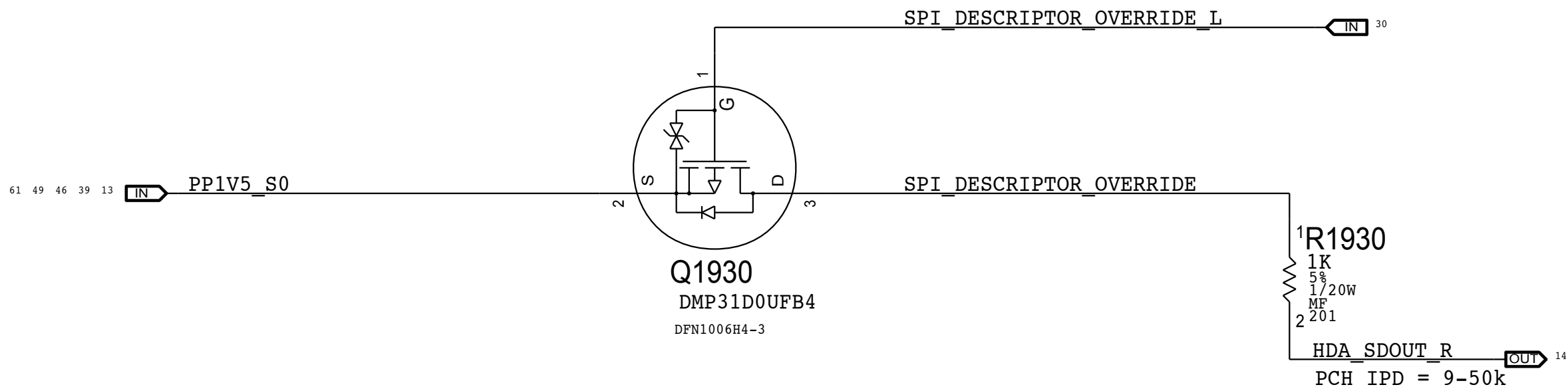




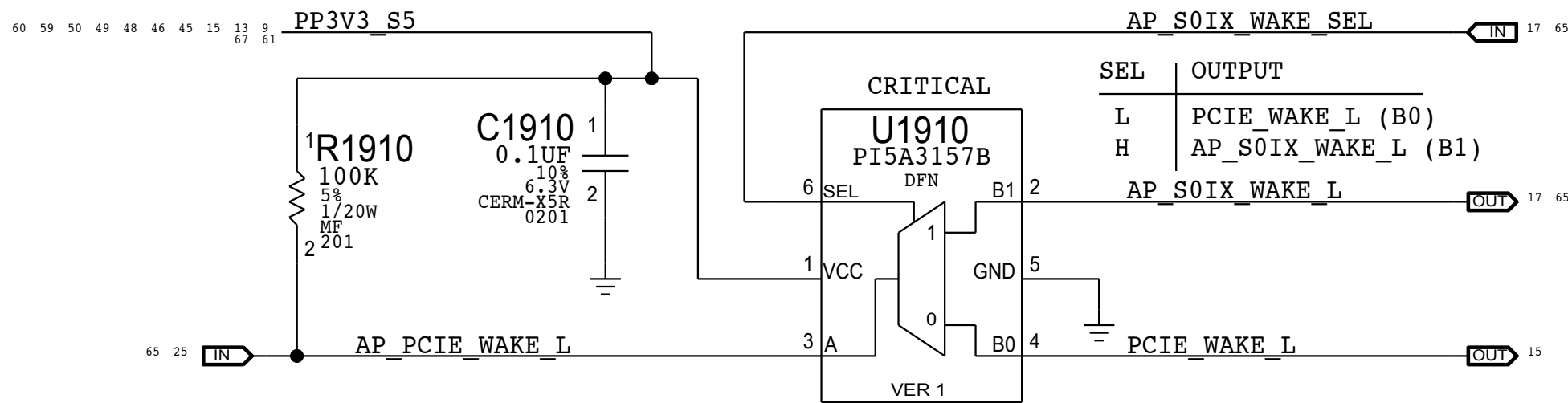
System 32kHz / 12MHz / 24MHz Clock Generator



PCH ME Disable Strap



PCIe Wake Muxing



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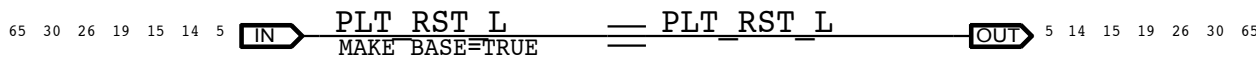
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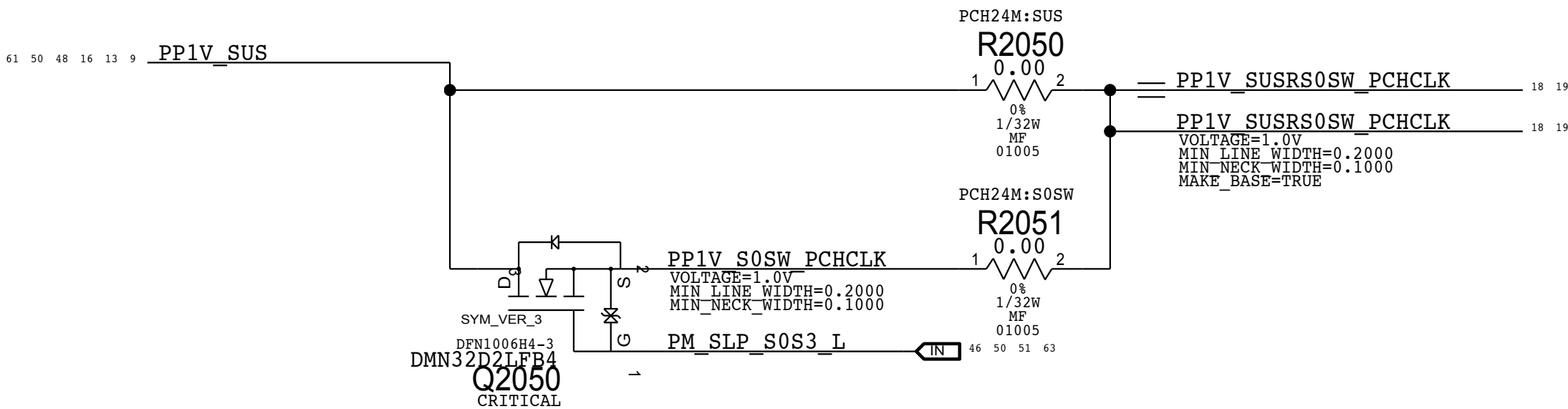
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Platform Reset Connections

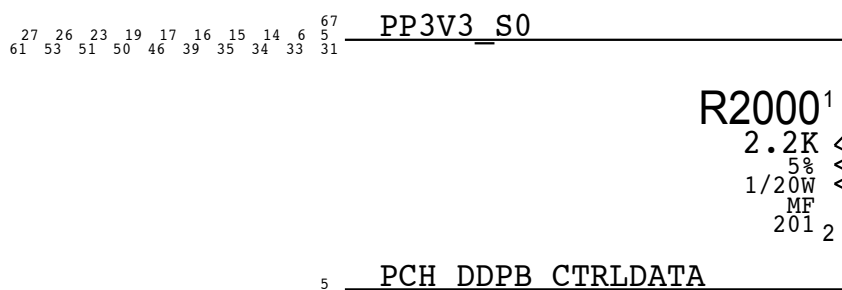
Unbuffered



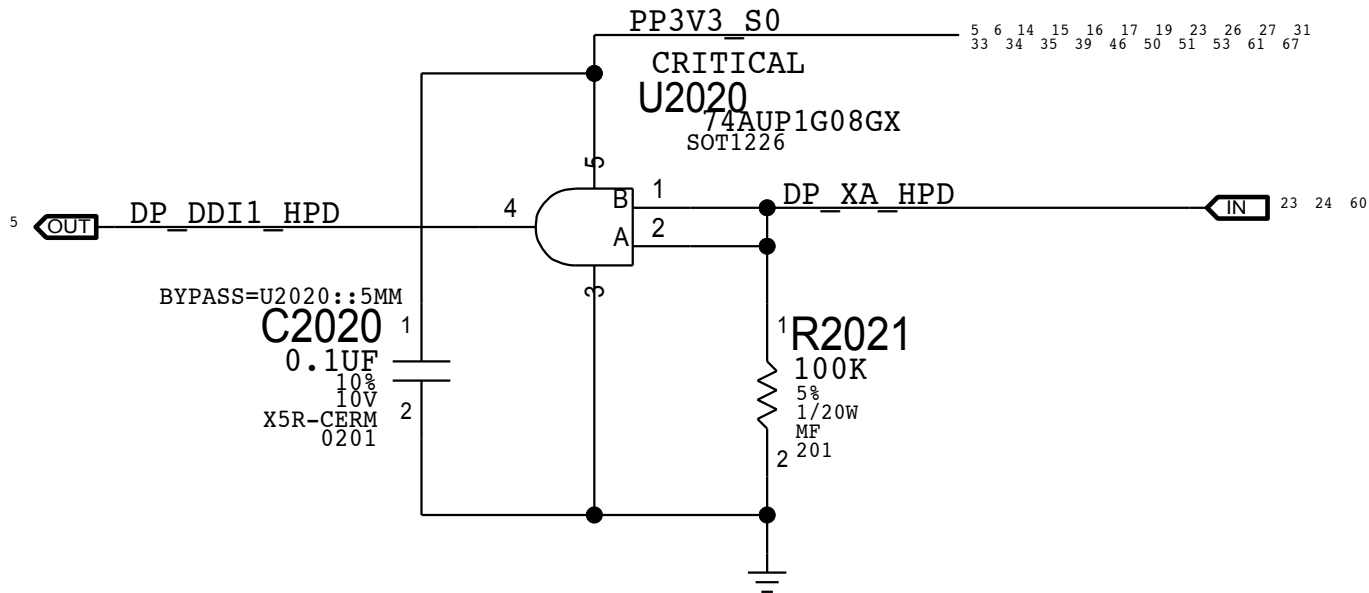
PCH 24MHz VIOE Options



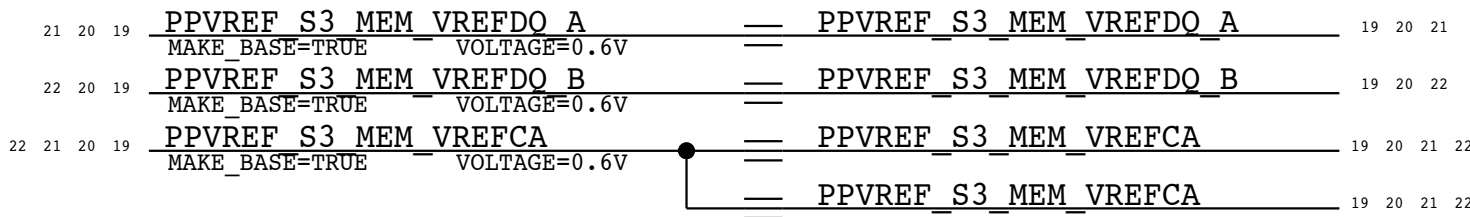
DP DDP Straps



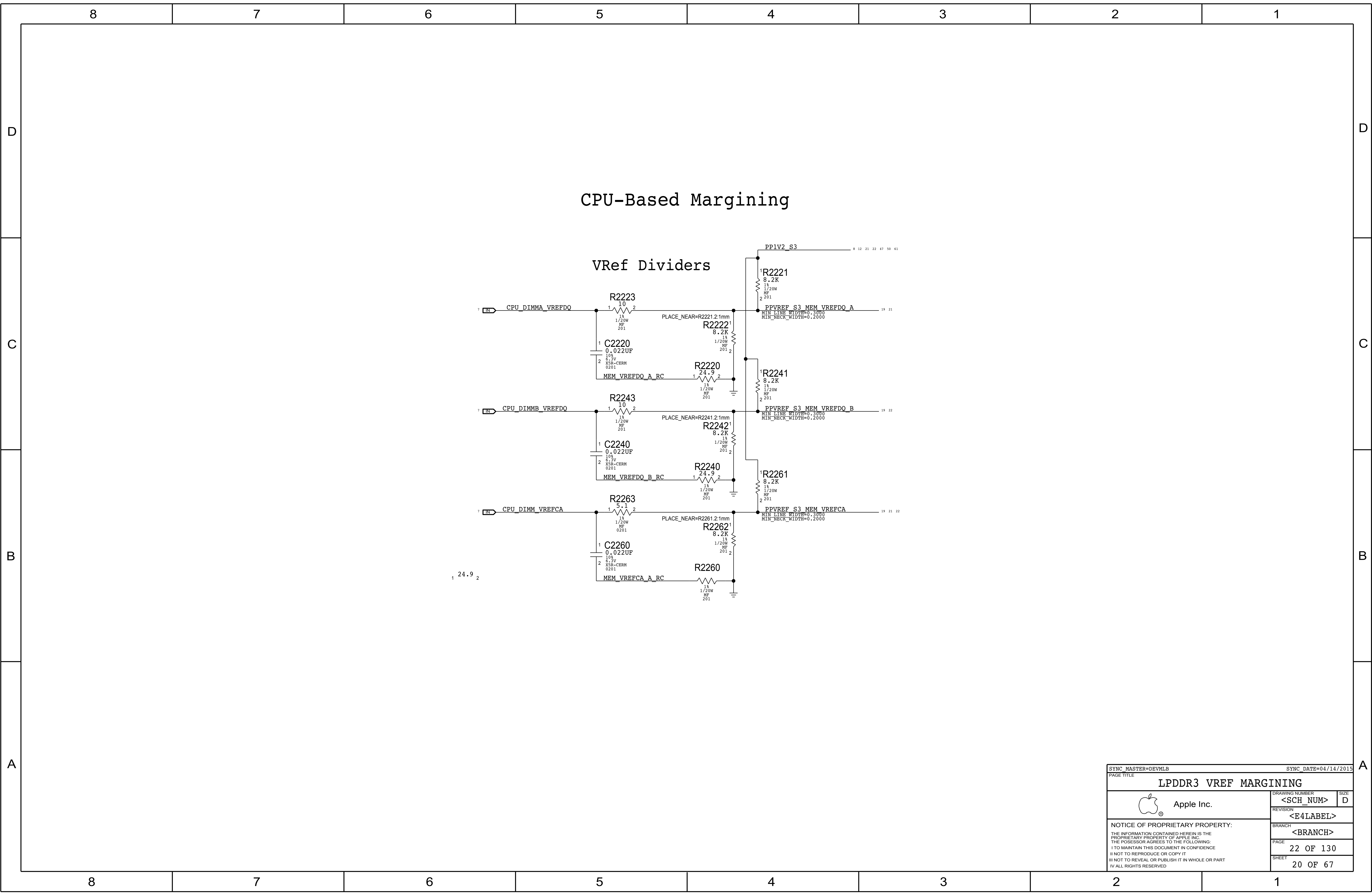
HPD S0 Isolation

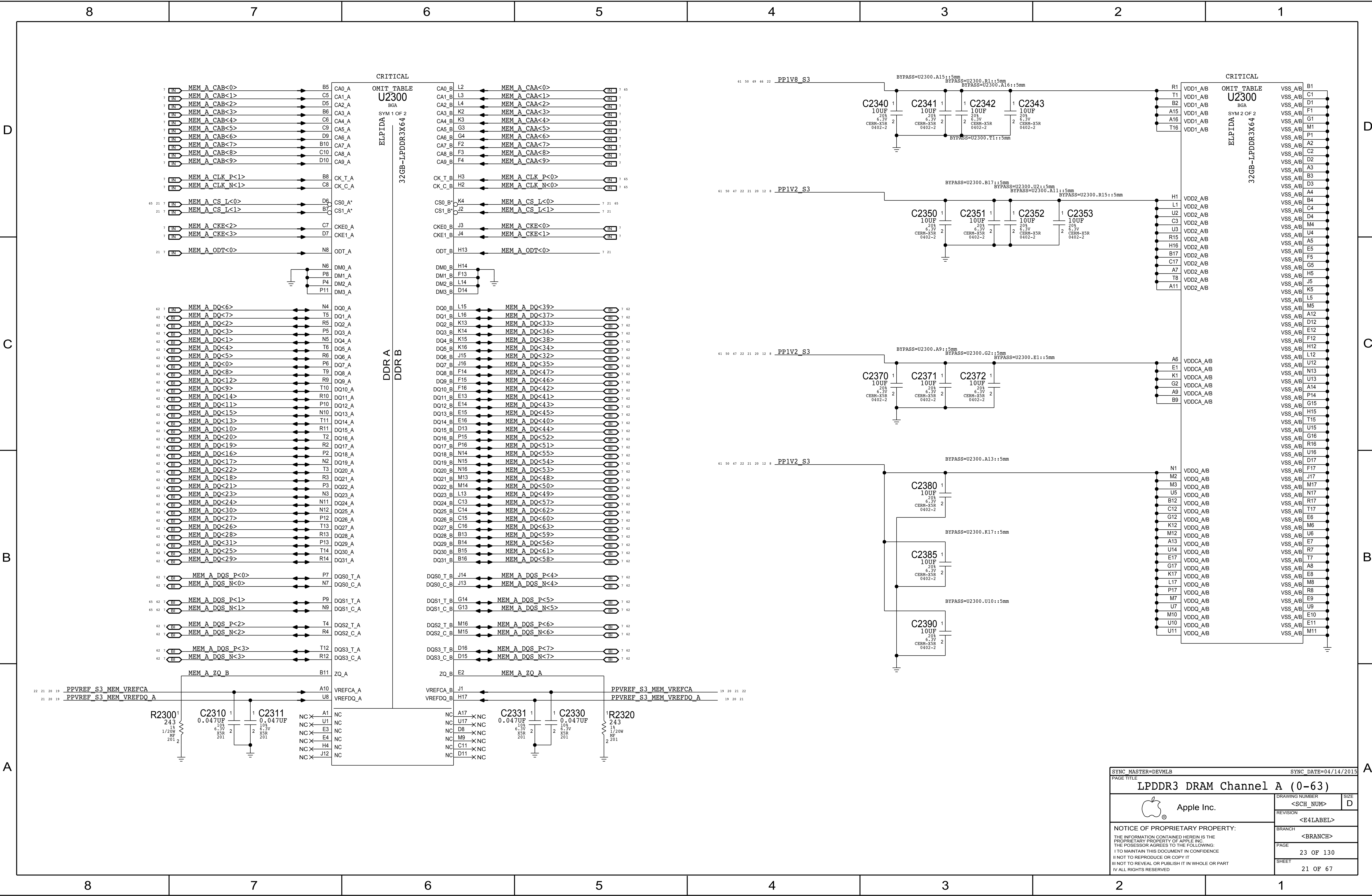


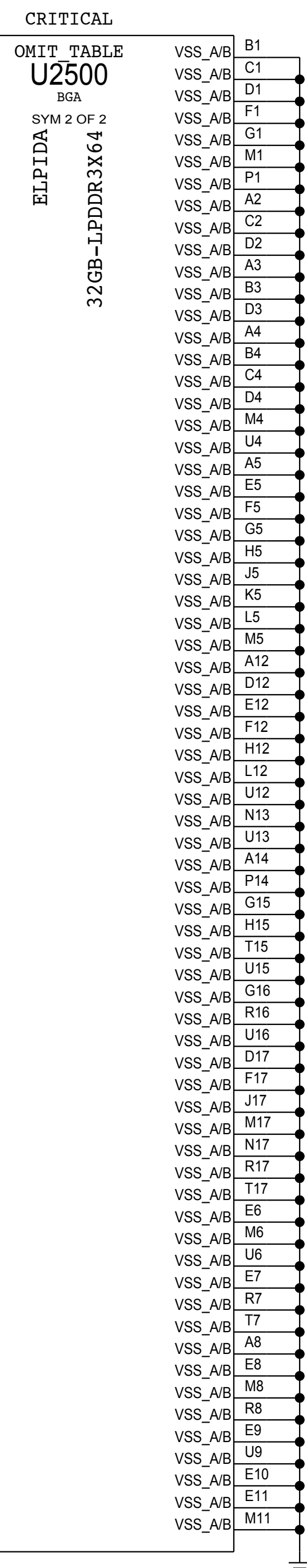
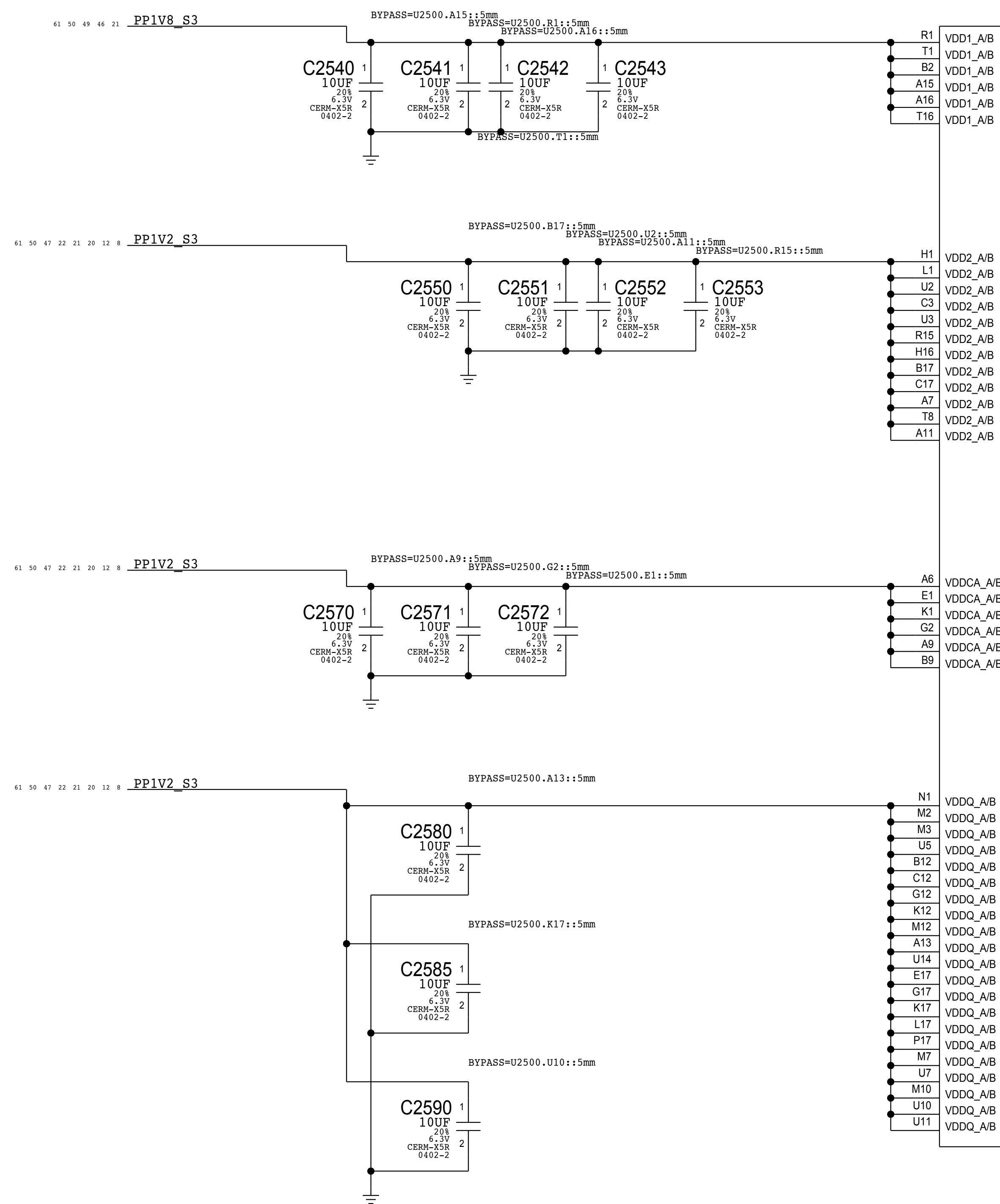
LPDDR3 Alias Support



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		SHEET	
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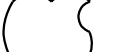






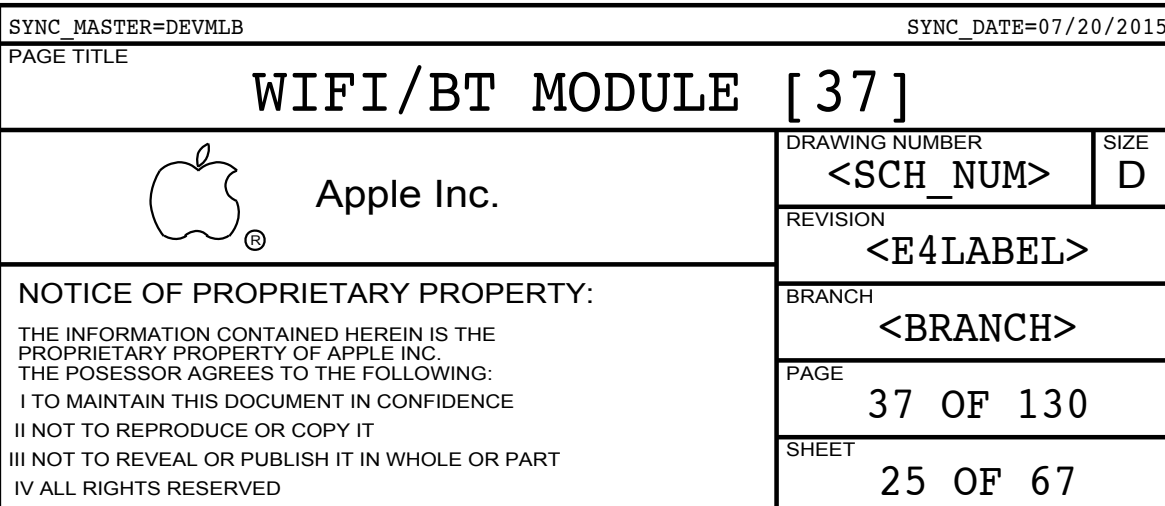
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		PAGE 31 OF 130	
		SHEET 24 OF 67	

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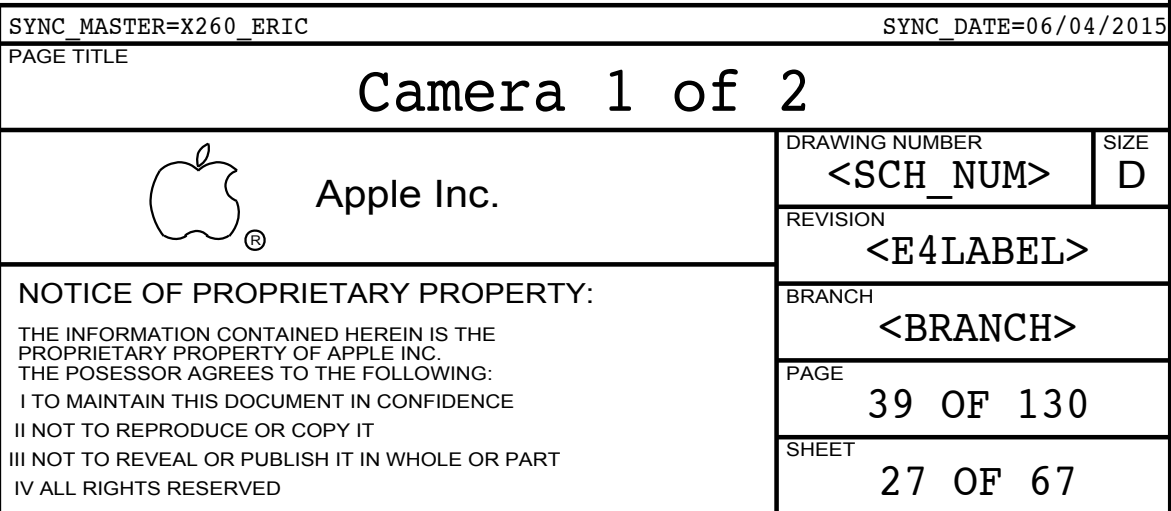
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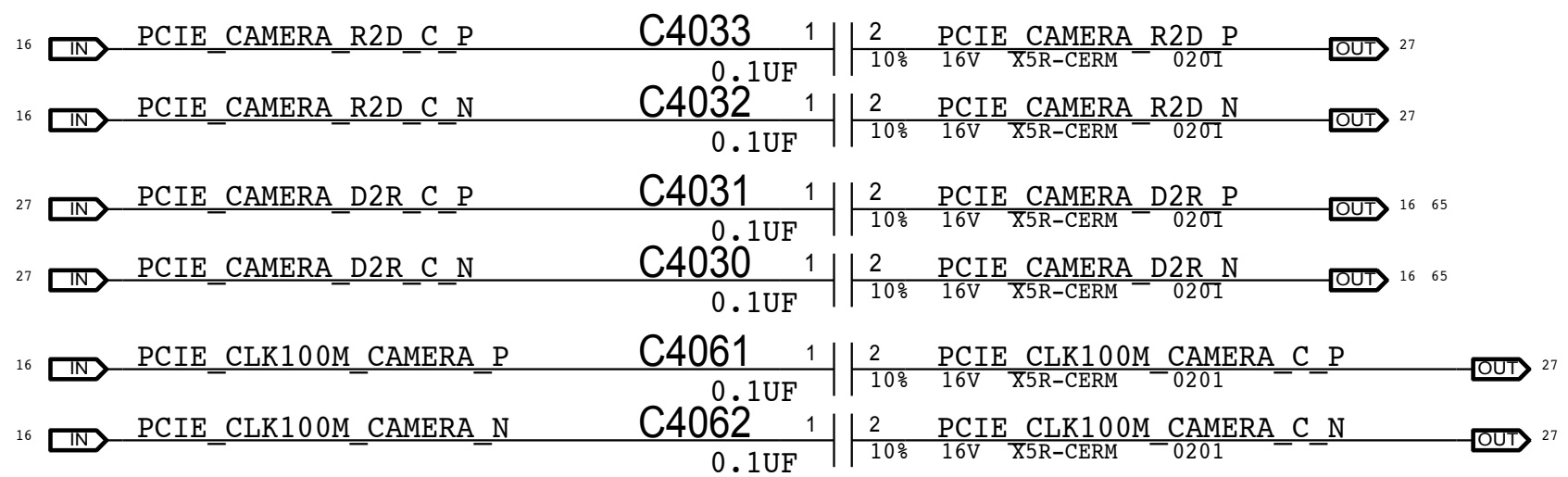
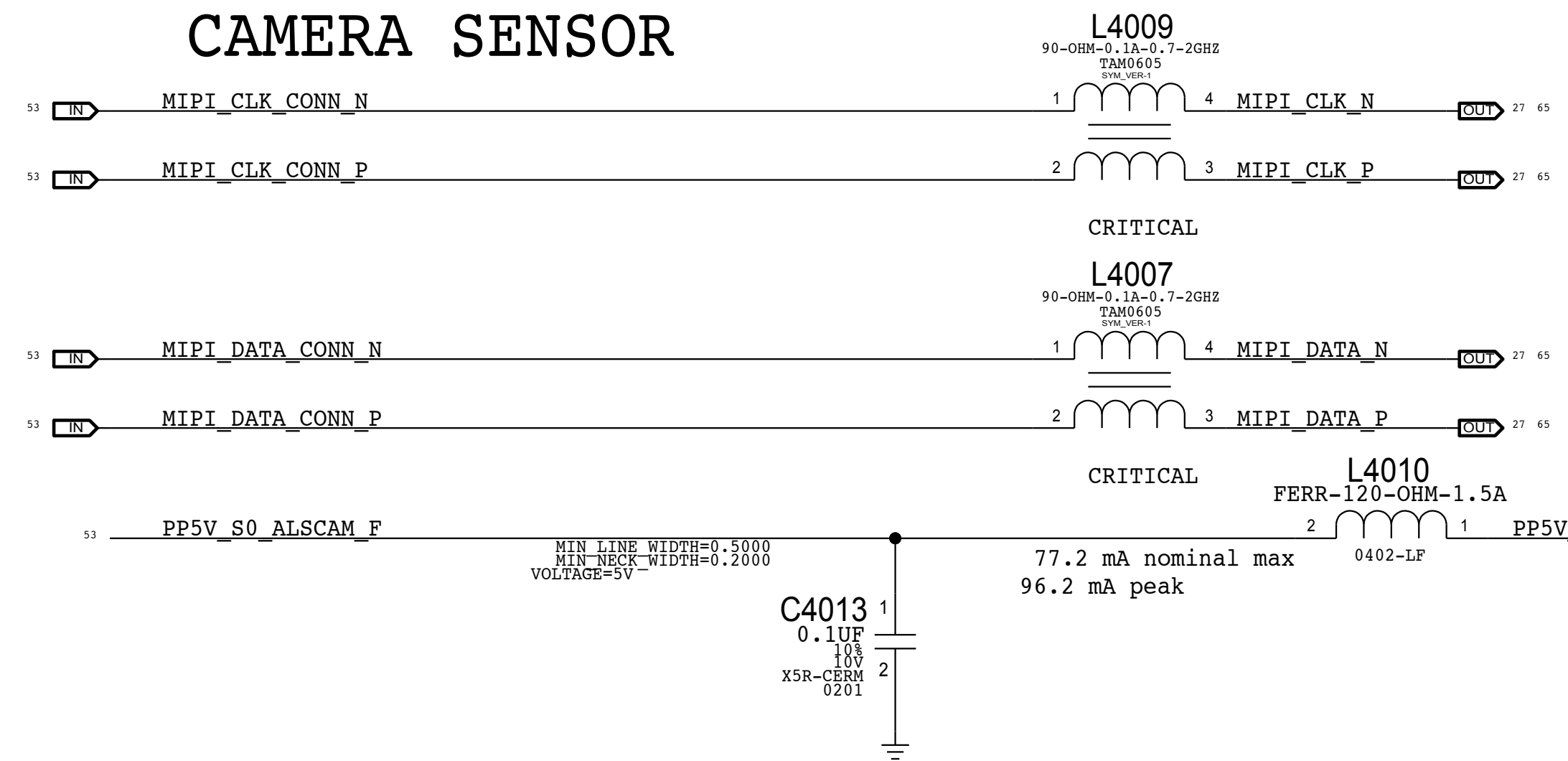
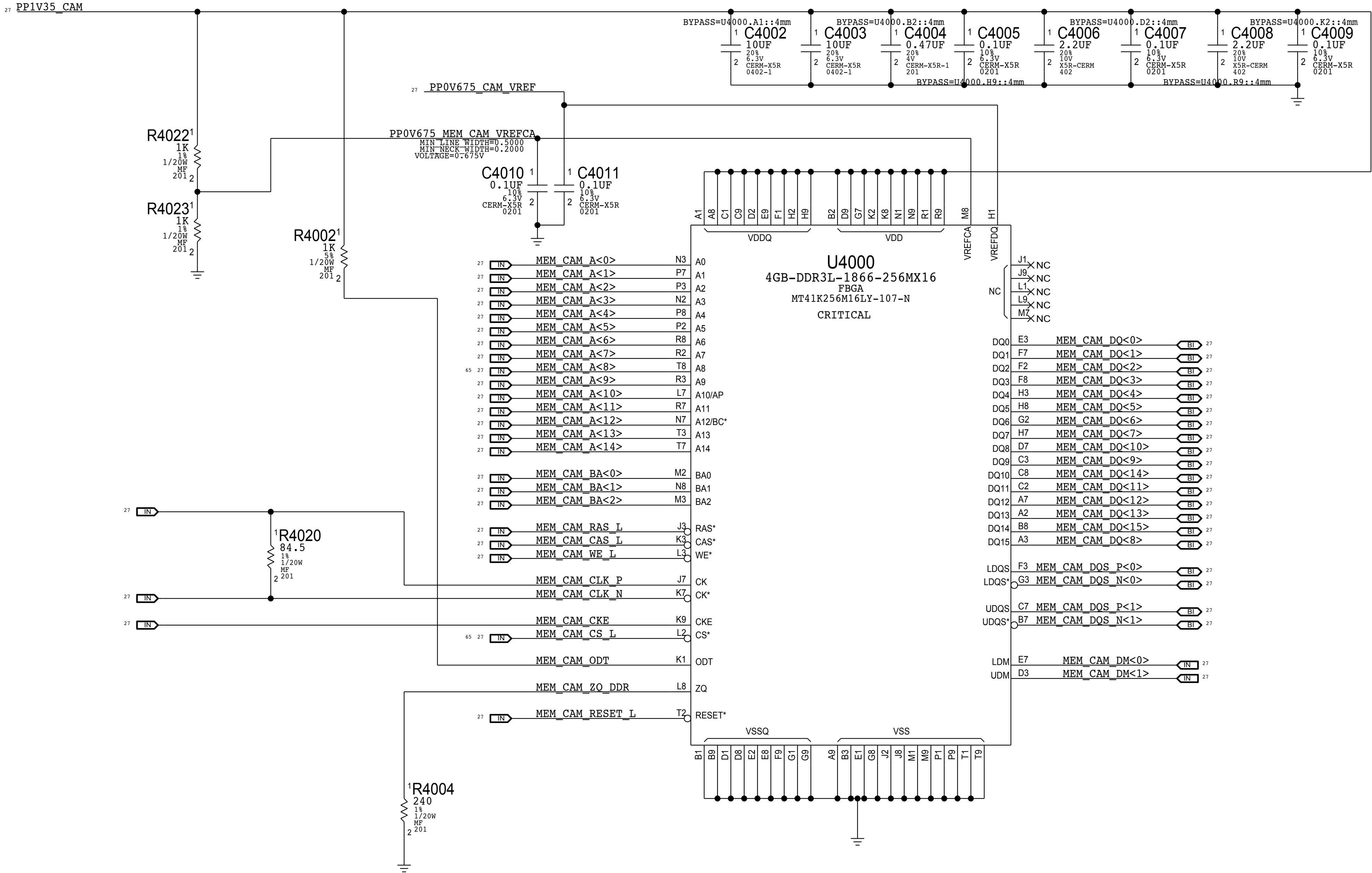
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		PAGE	40 OF 130
		SHEET	28 OF 67

SMC AVREF Supply

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PROCHOT/THRMTRIP Support

PECI Support

Top-Block Swap

SYNC_MASTER=X260_ERIC

SYNC_DATE=06/04/2015

SMC Shared Support

 Apple Inc.

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SIZE

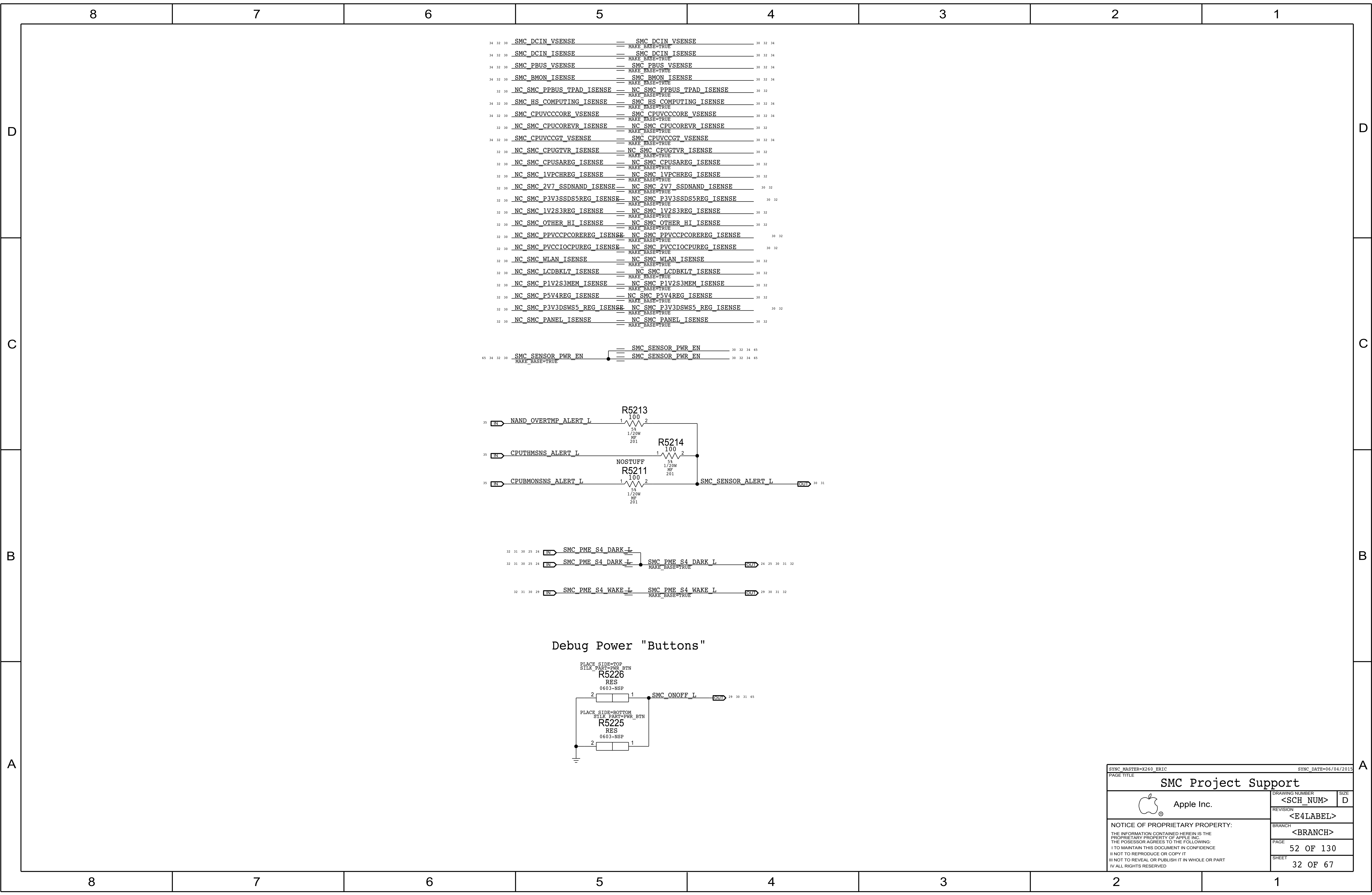
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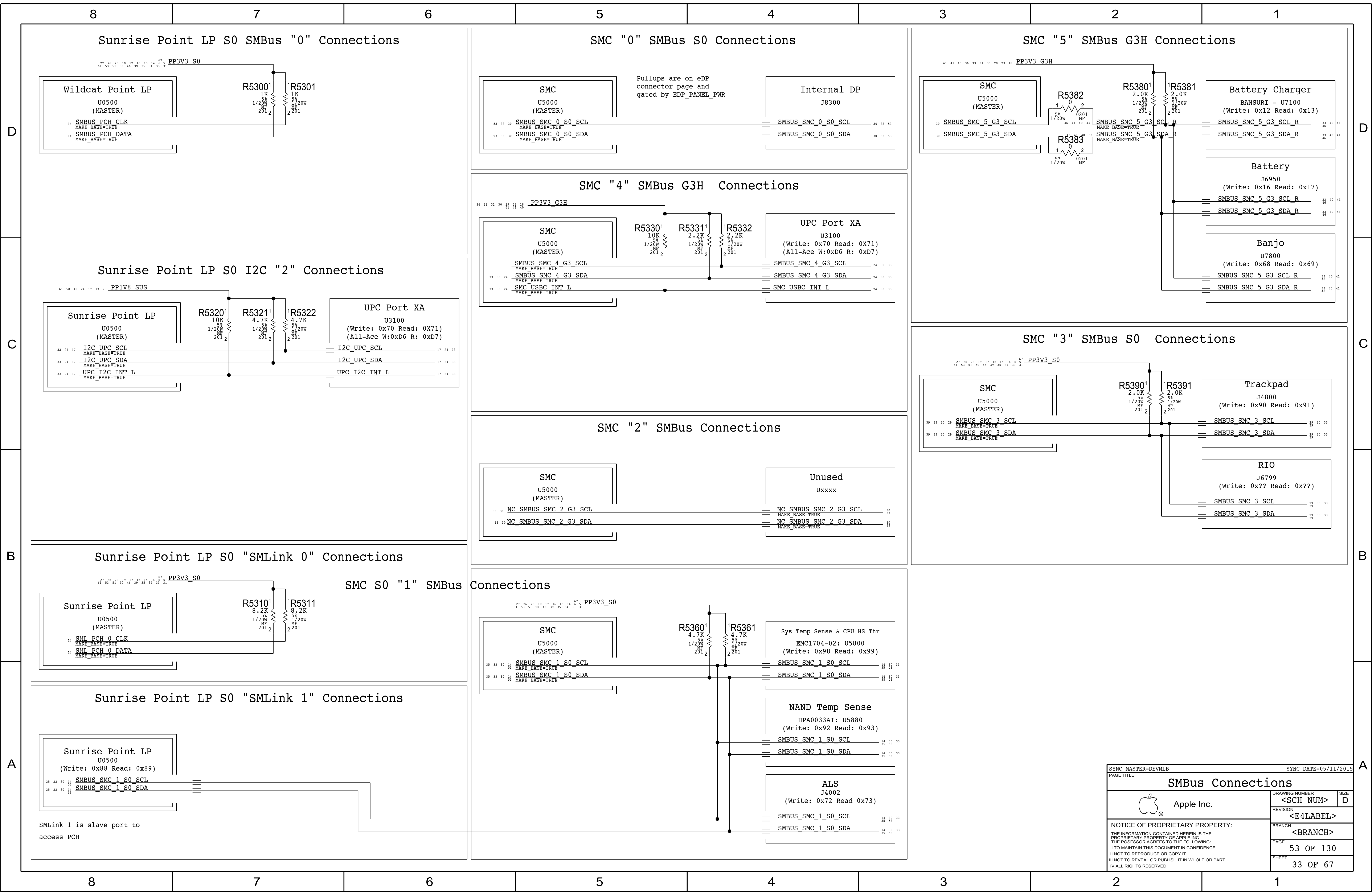
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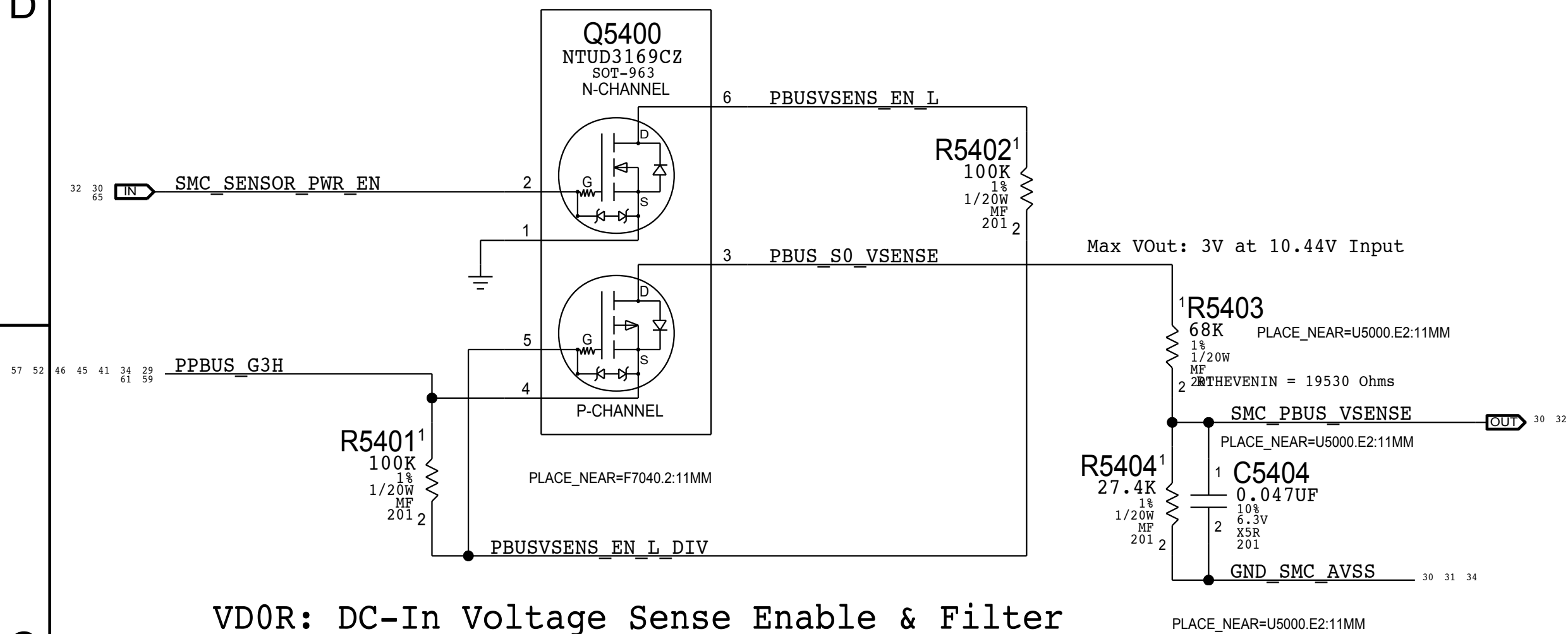
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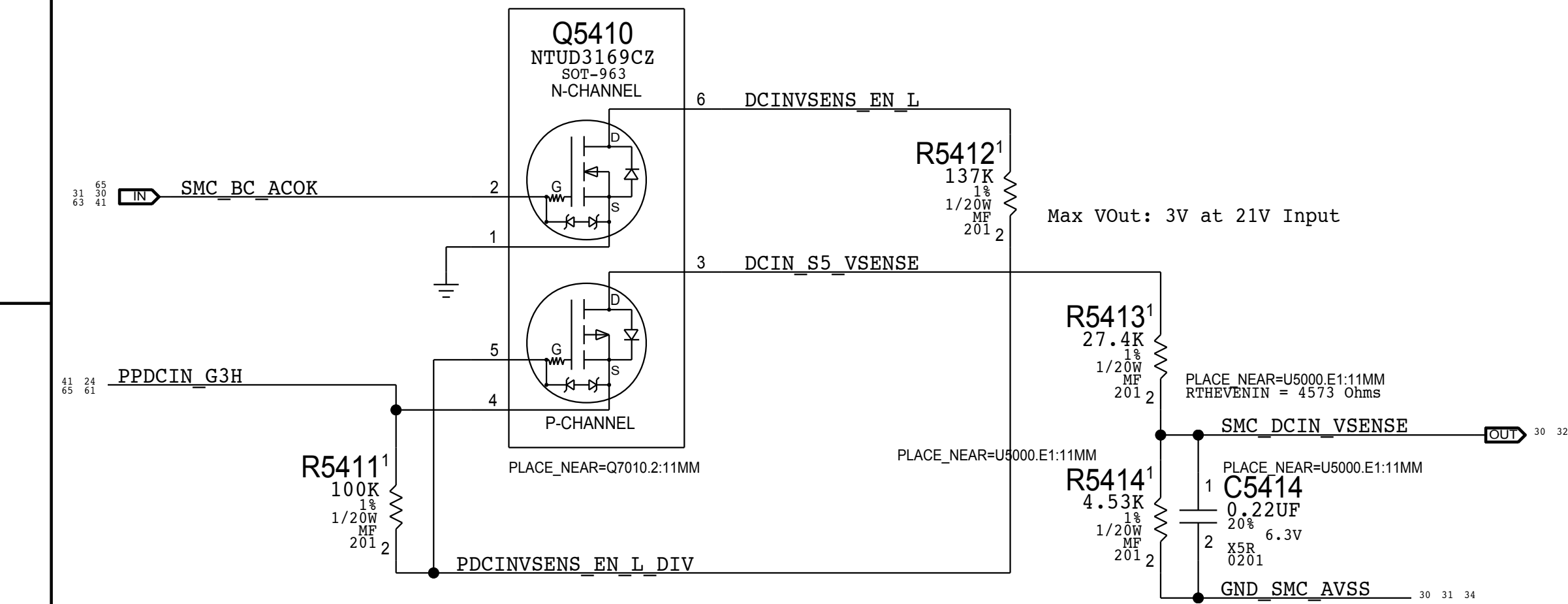


POR VOLTAGE / CURRENT SENSORS : TO BE USED IN PRODUCTION

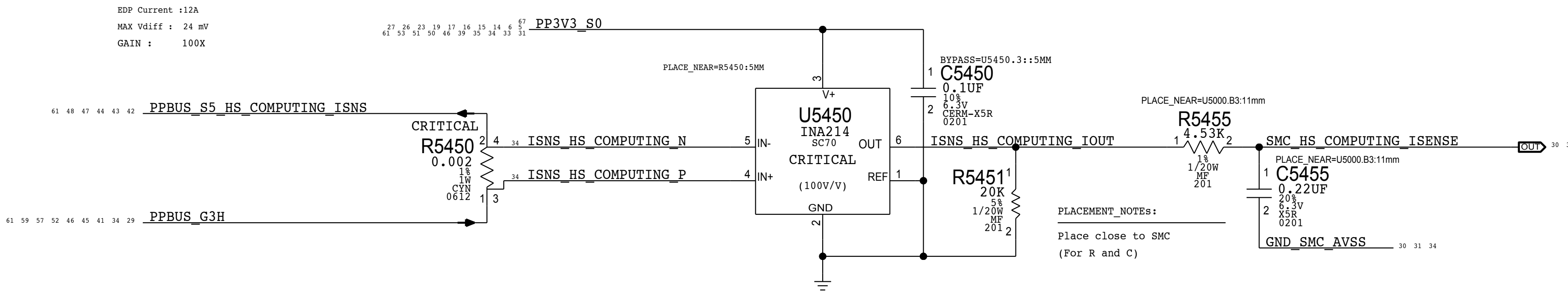
VP0R: PBUS Voltage Sense Enable & Filter



VD0R: DC-In Voltage Sense Enable & Filter

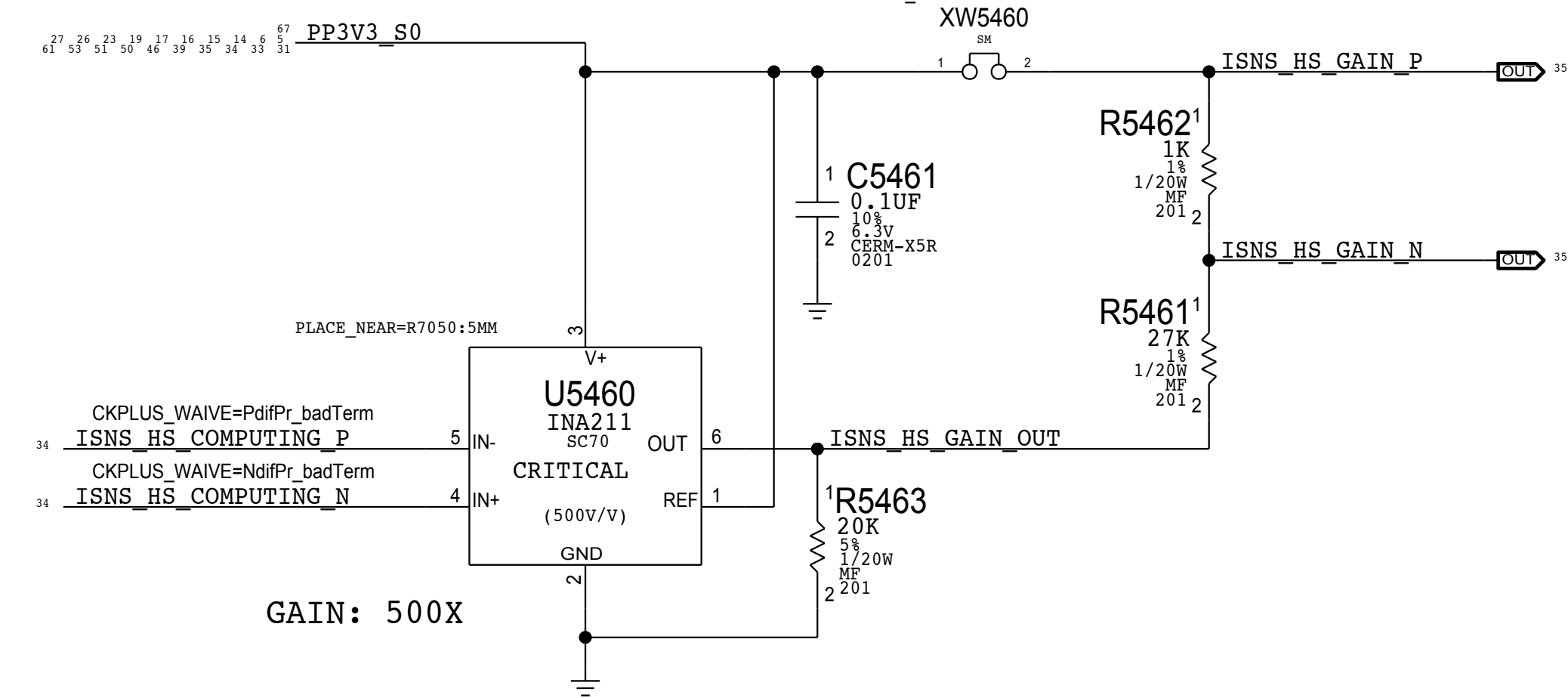


IC0R : COMPUTING High Side Current Sense

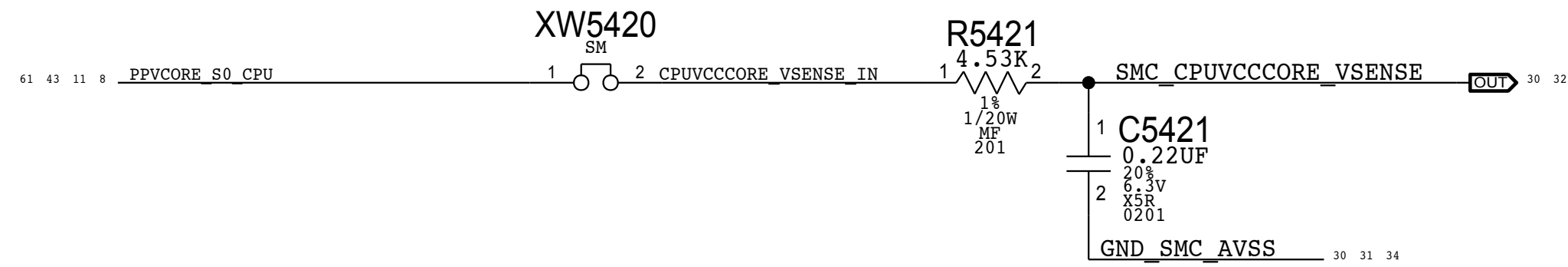


Need to set gains for ULX

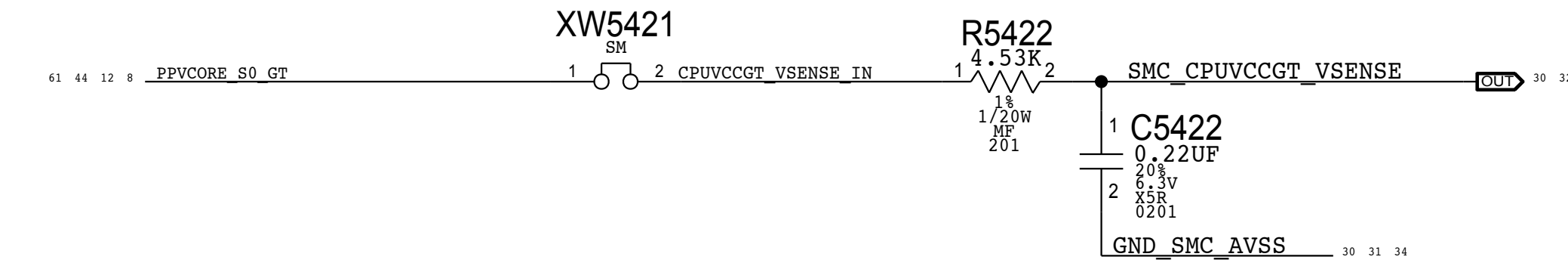
EMC1704 Computing High Side Gain Stage



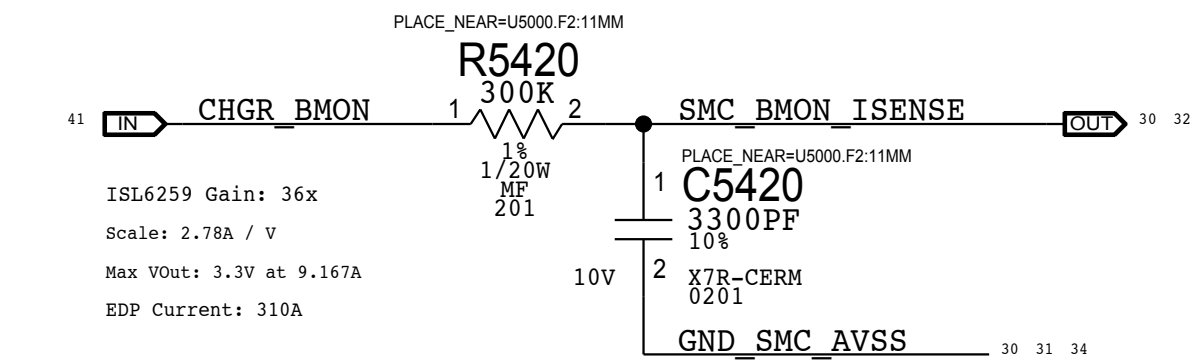
VC0C : CPU VCC CORE Voltage Sense



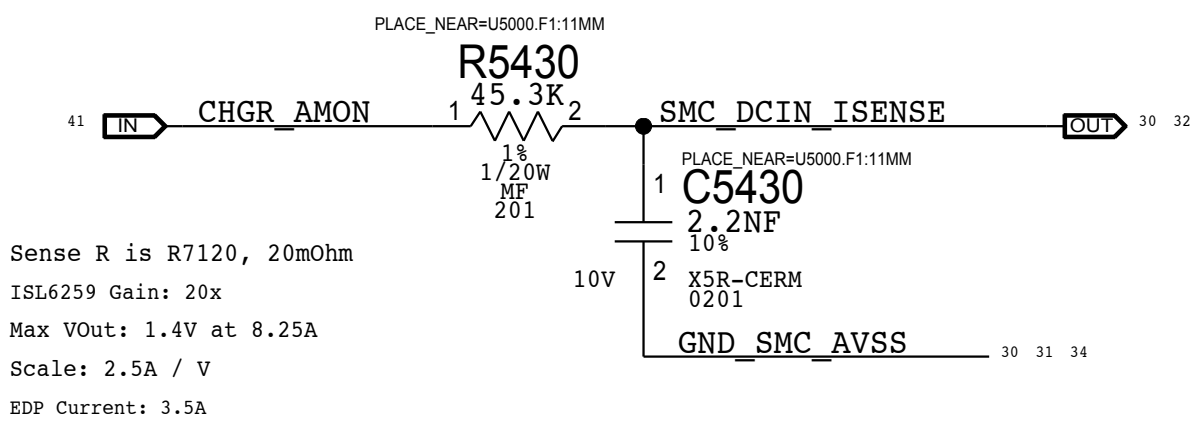
VC0G : CPU VCCGT Voltage Sense



CHARGER BMON High Side Current Sense



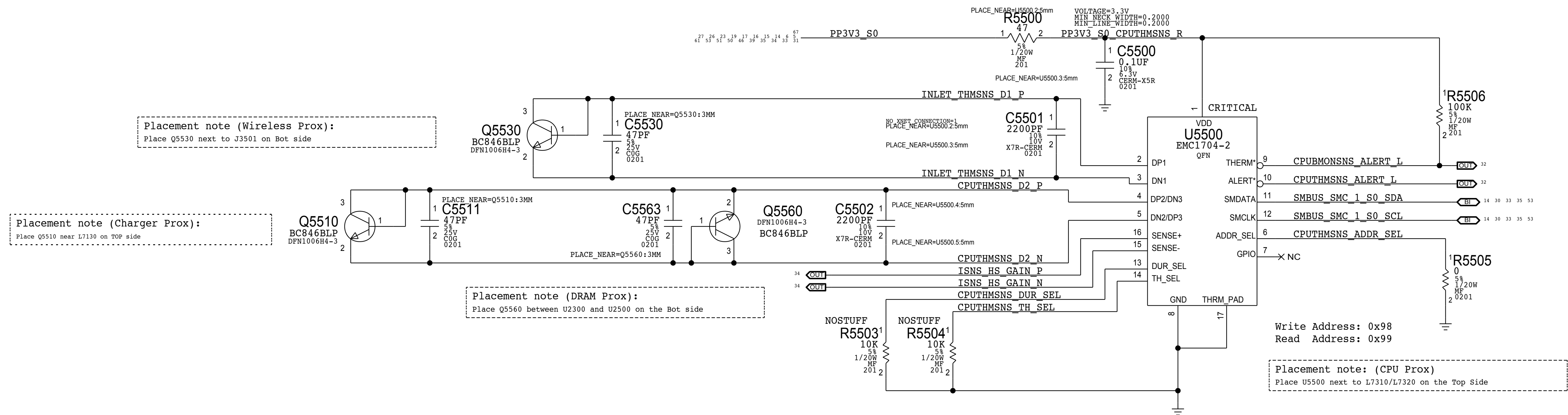
DC-IN (AMON) Current Sense



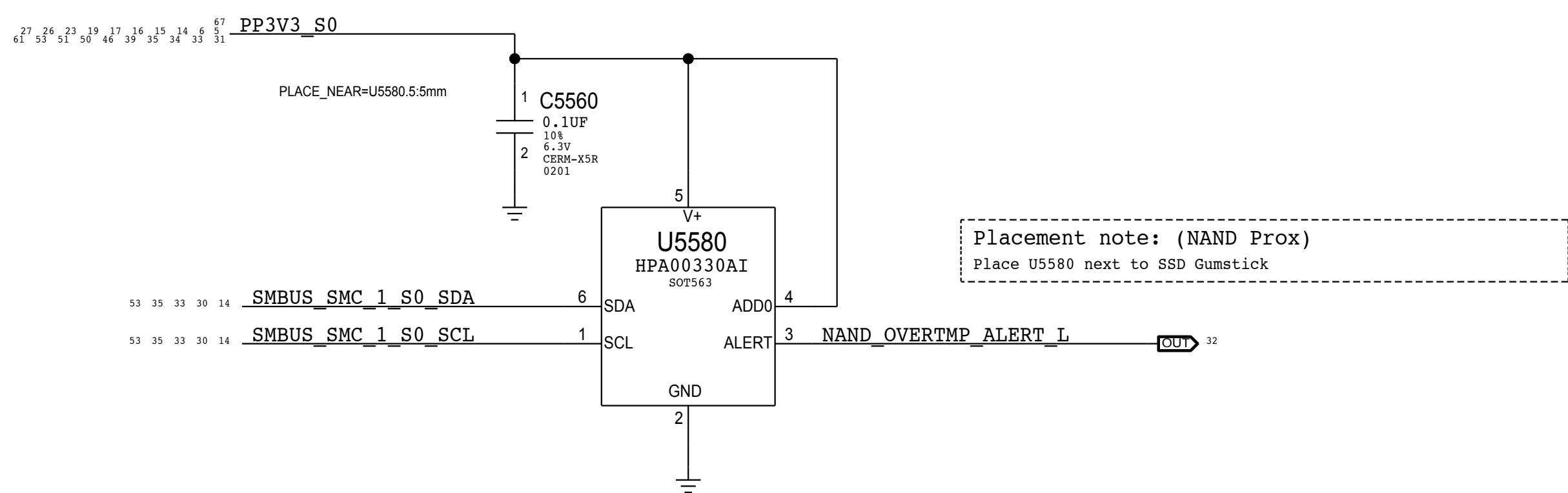
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	PAGE 54 OF 130		
	SHEET 34 OF 67		

POR THERMAL SENSORS : TO BE USED IN PRODUCTION

CPU Proximity, Inlet ,DDR and BMON THR Sensor



NAND Temp Sensor



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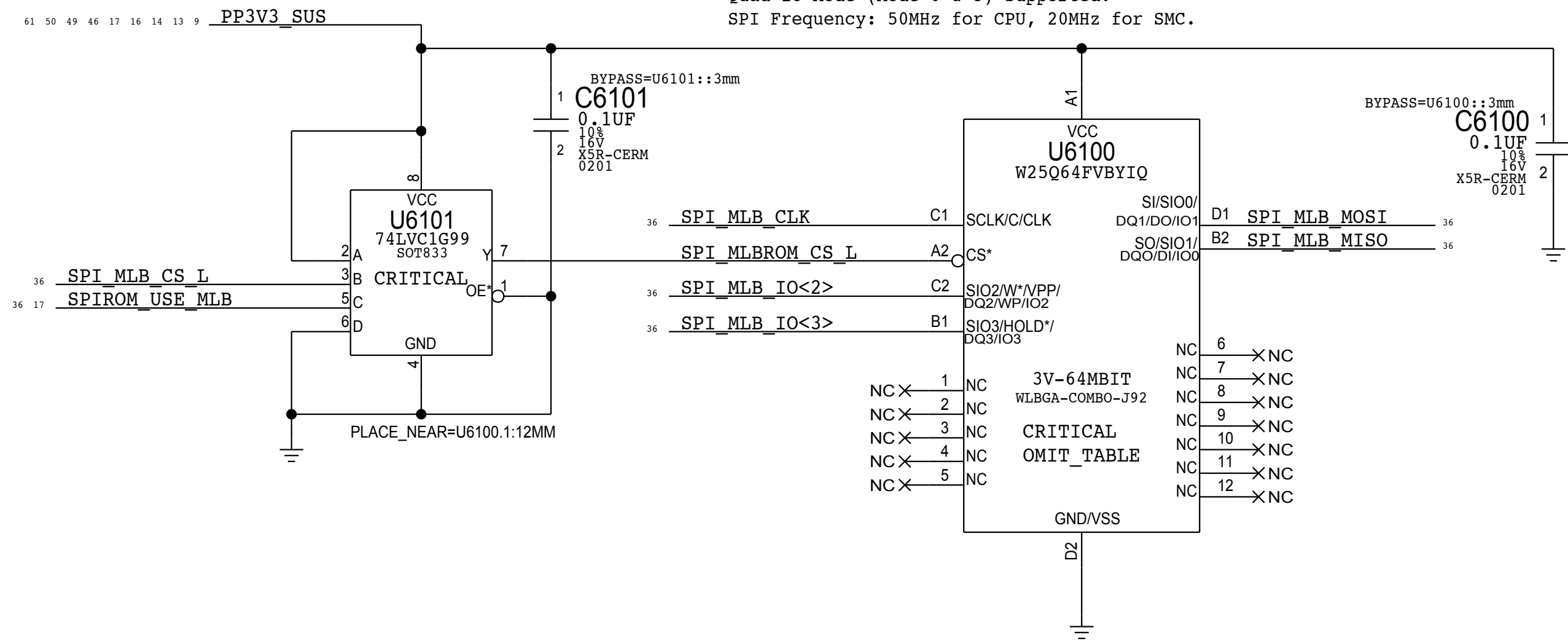
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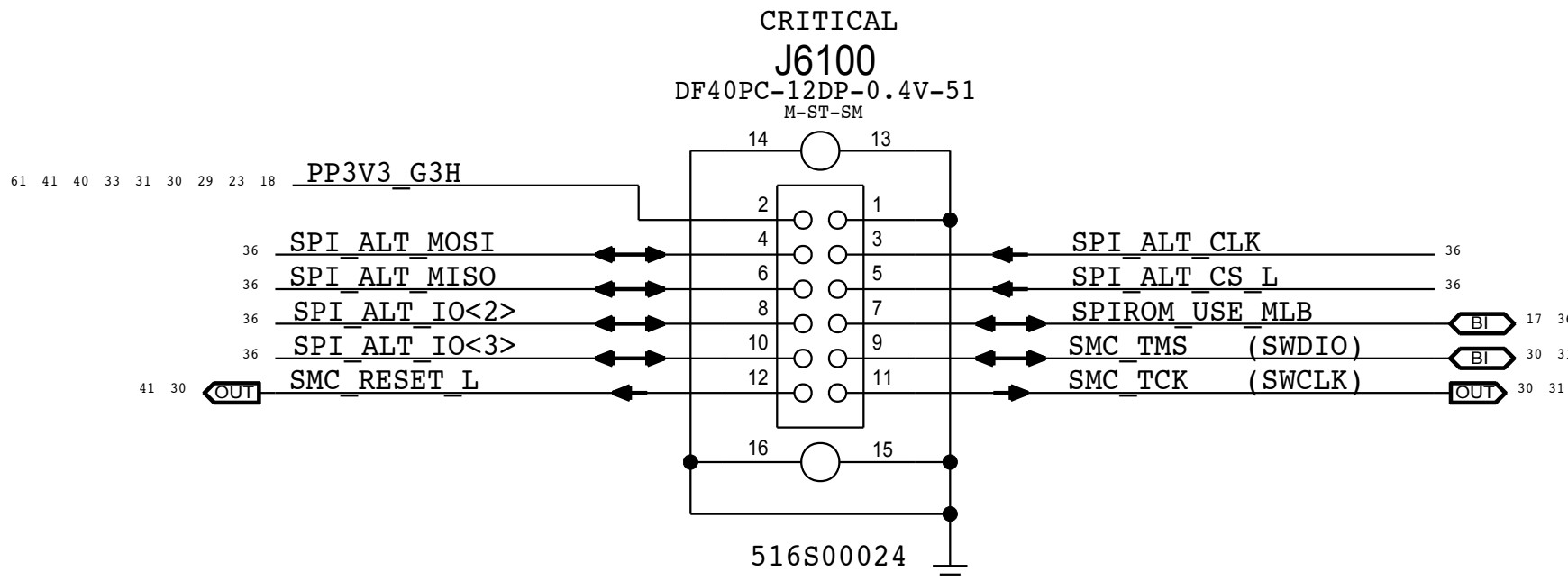
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SPI ROM - Combo BGA Footprint (3 vendors)

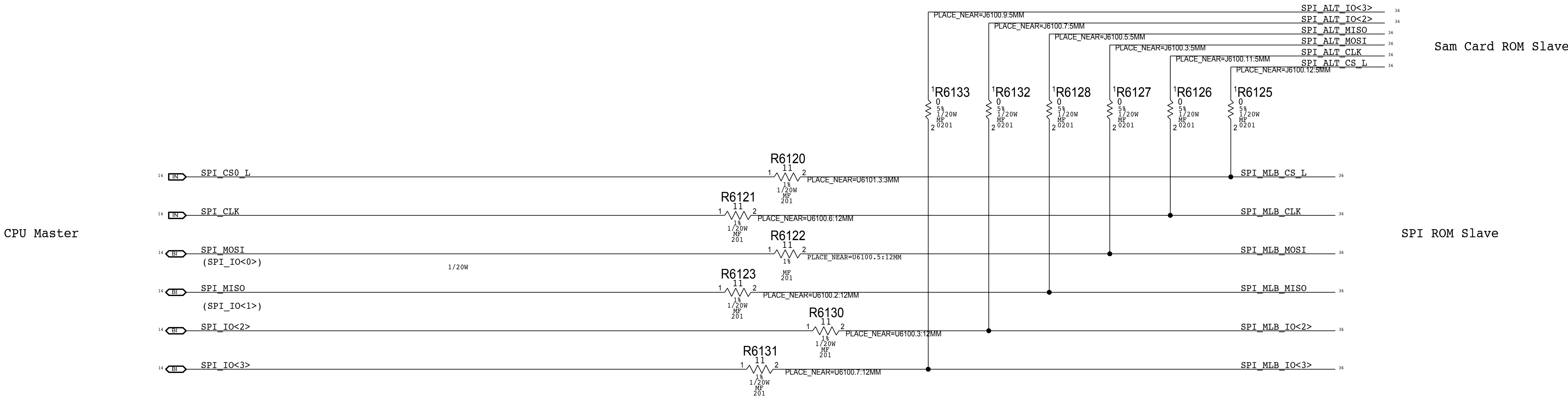
Quad-I/O Mode (Mode 0 & 3) supported.
SPI Frequency: 50MHz for CPU, 20MHz for SMC.



SPI+SWD SAM Connector

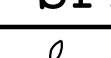


BootROM SPI Bus Series Termination



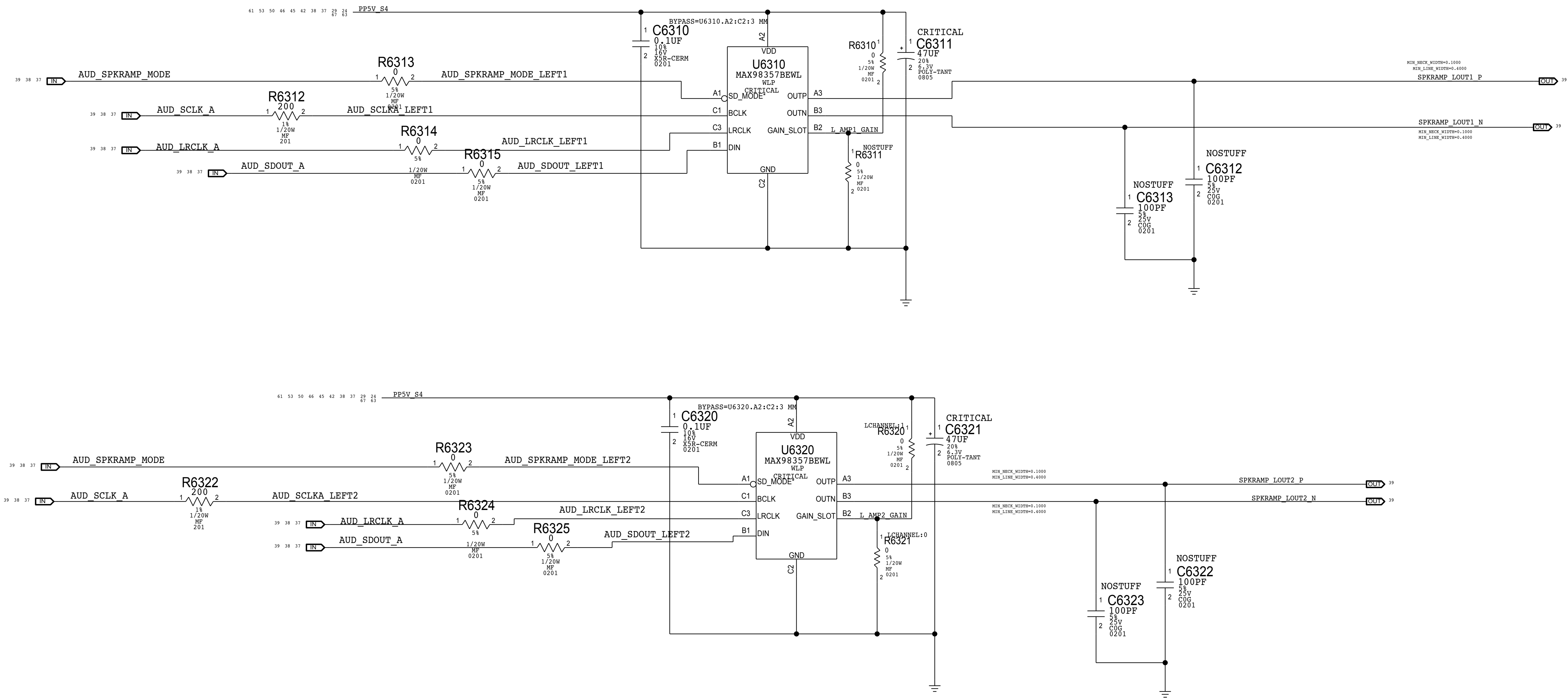
Sam Card ROM Slave

SPI ROM Slave

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SPI+SWD Debug Connector			
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	PAGE	61 OF 130	
	SHEET	36 OF 67	

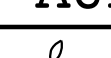
Left Speaker Amps

APPLE P/N 353S4265

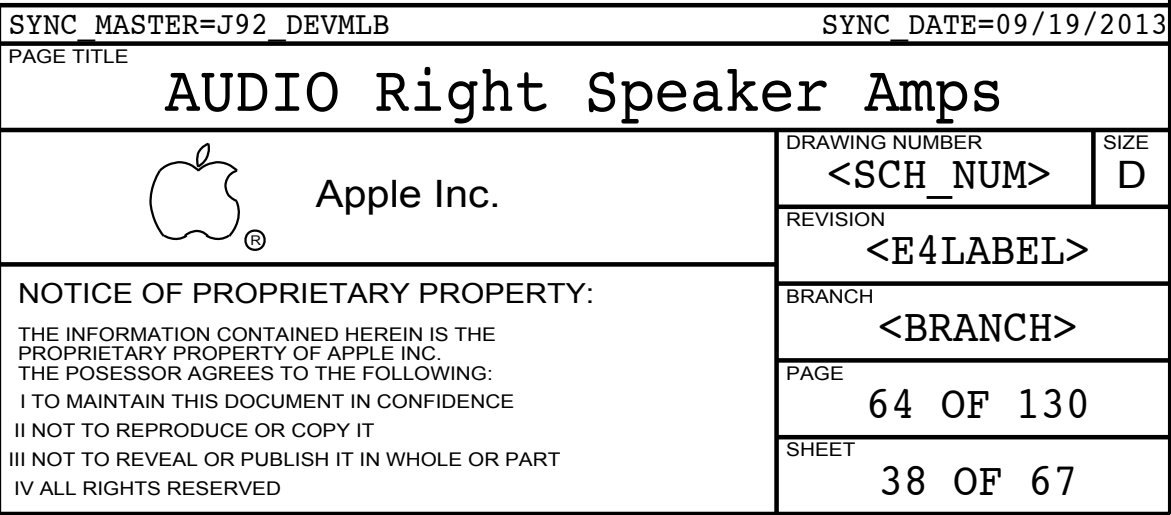


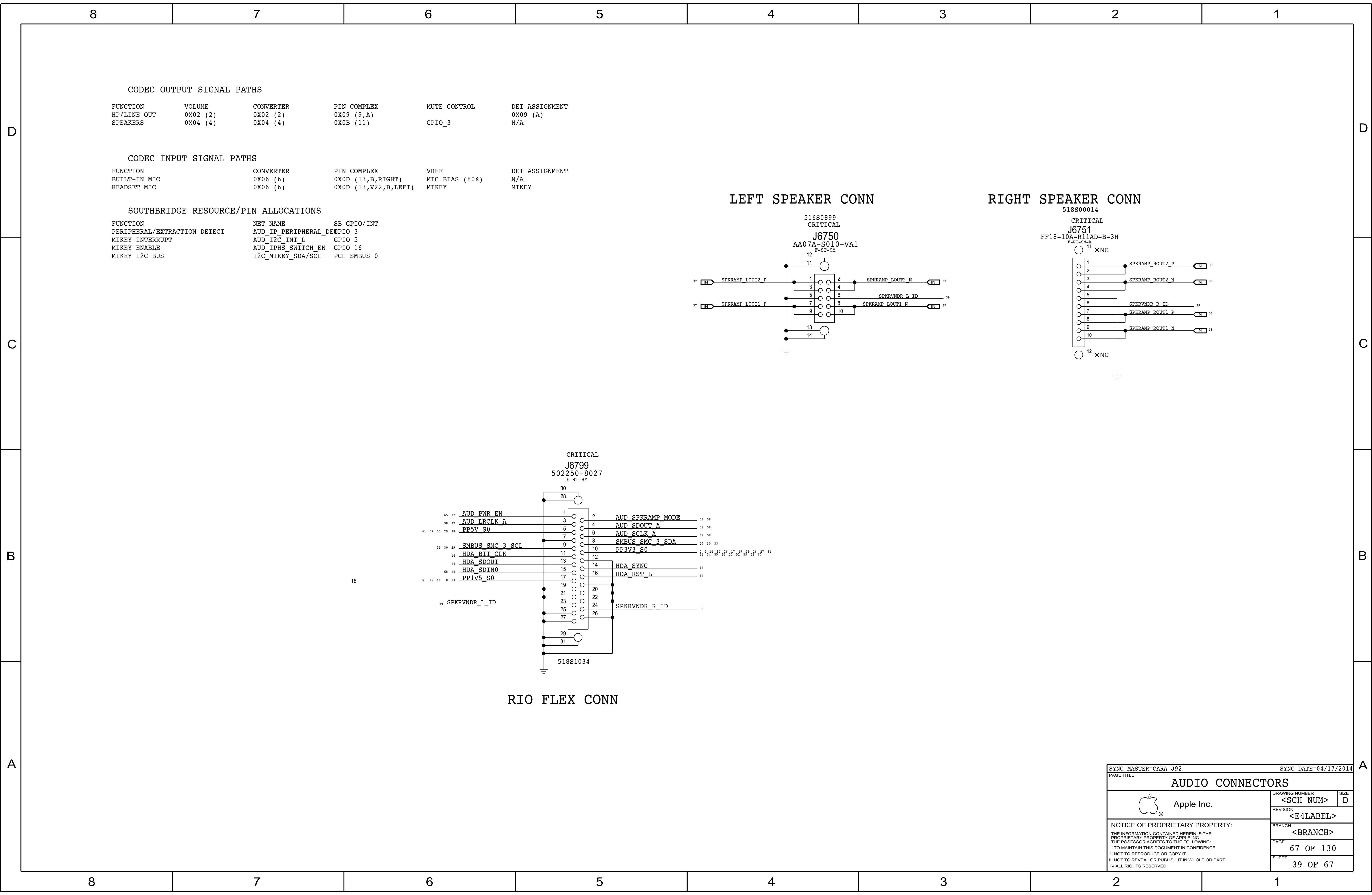
SPEAKER CONFIGS

BOM GROUP	BOM OPTIONS
EQ:2CH	LCHANNEL:1,RCHANNEL:3
EQ:4CH	LCHANNEL:0,RCHANNEL:4

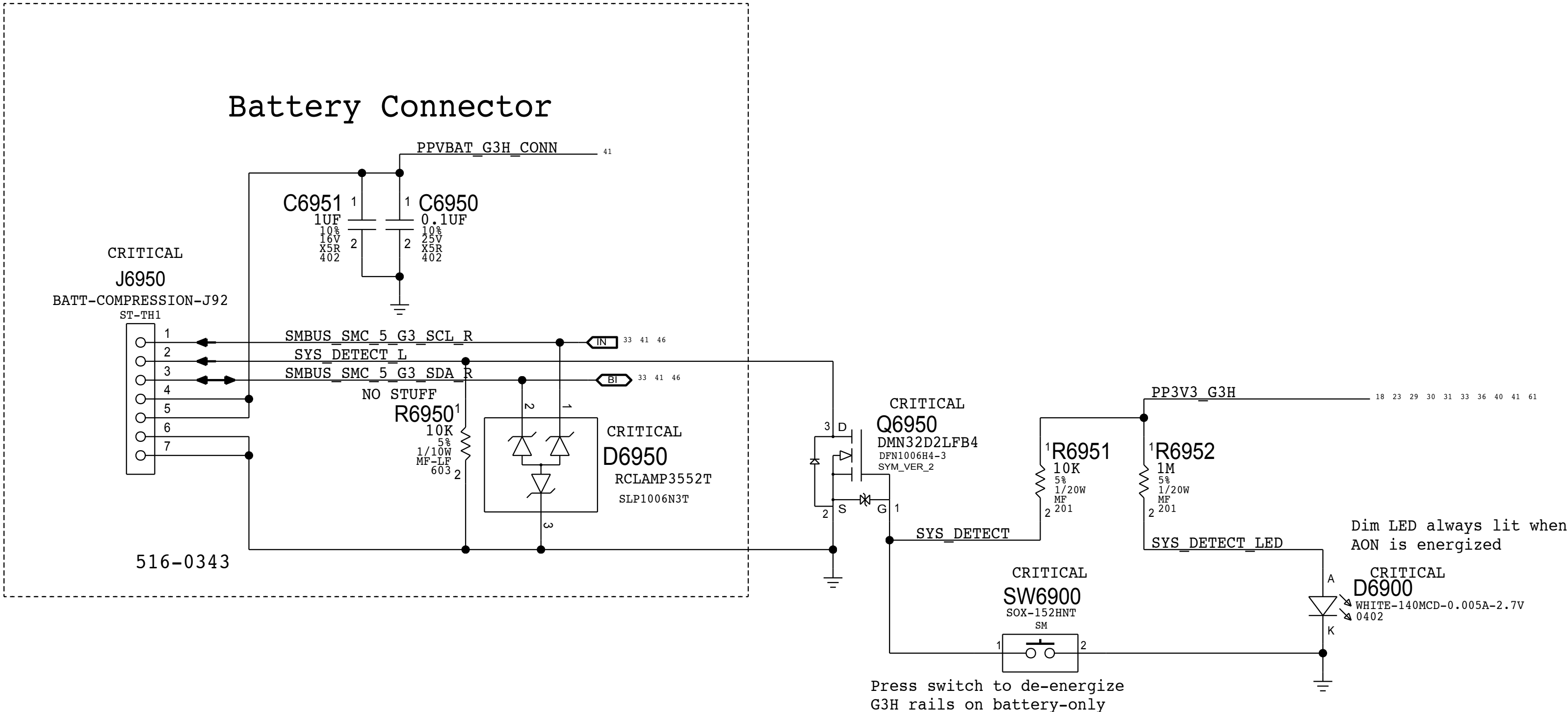
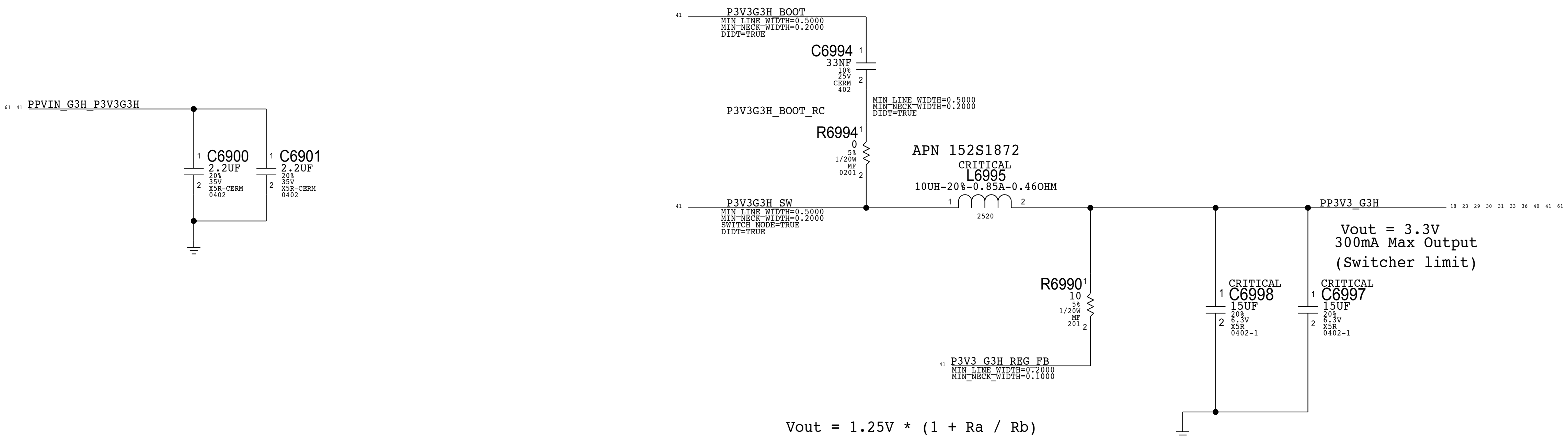
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AUDIO Left Speaker Amps			
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APPLE P/N 353S4265



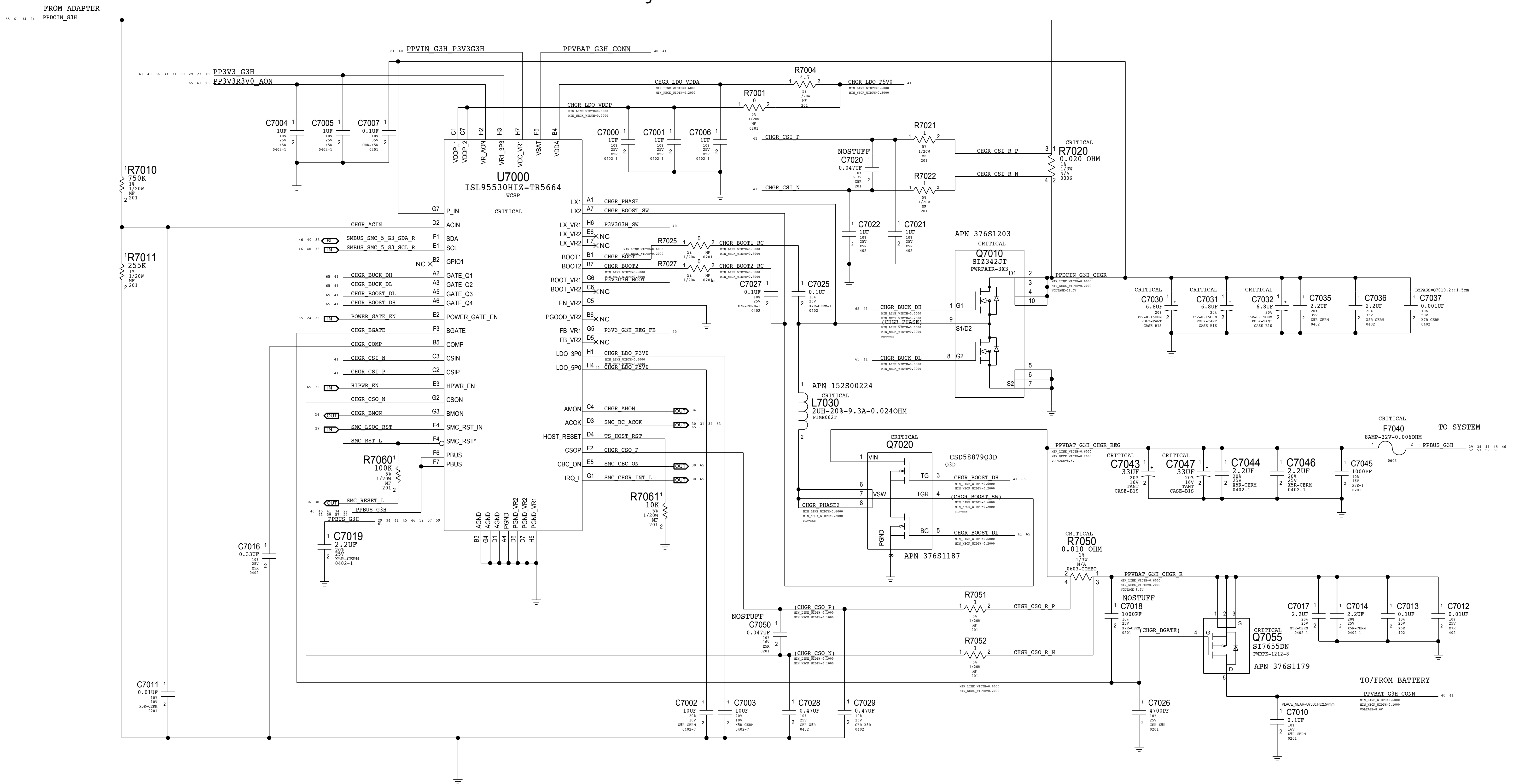


3.3V G3H VR - Bansuri

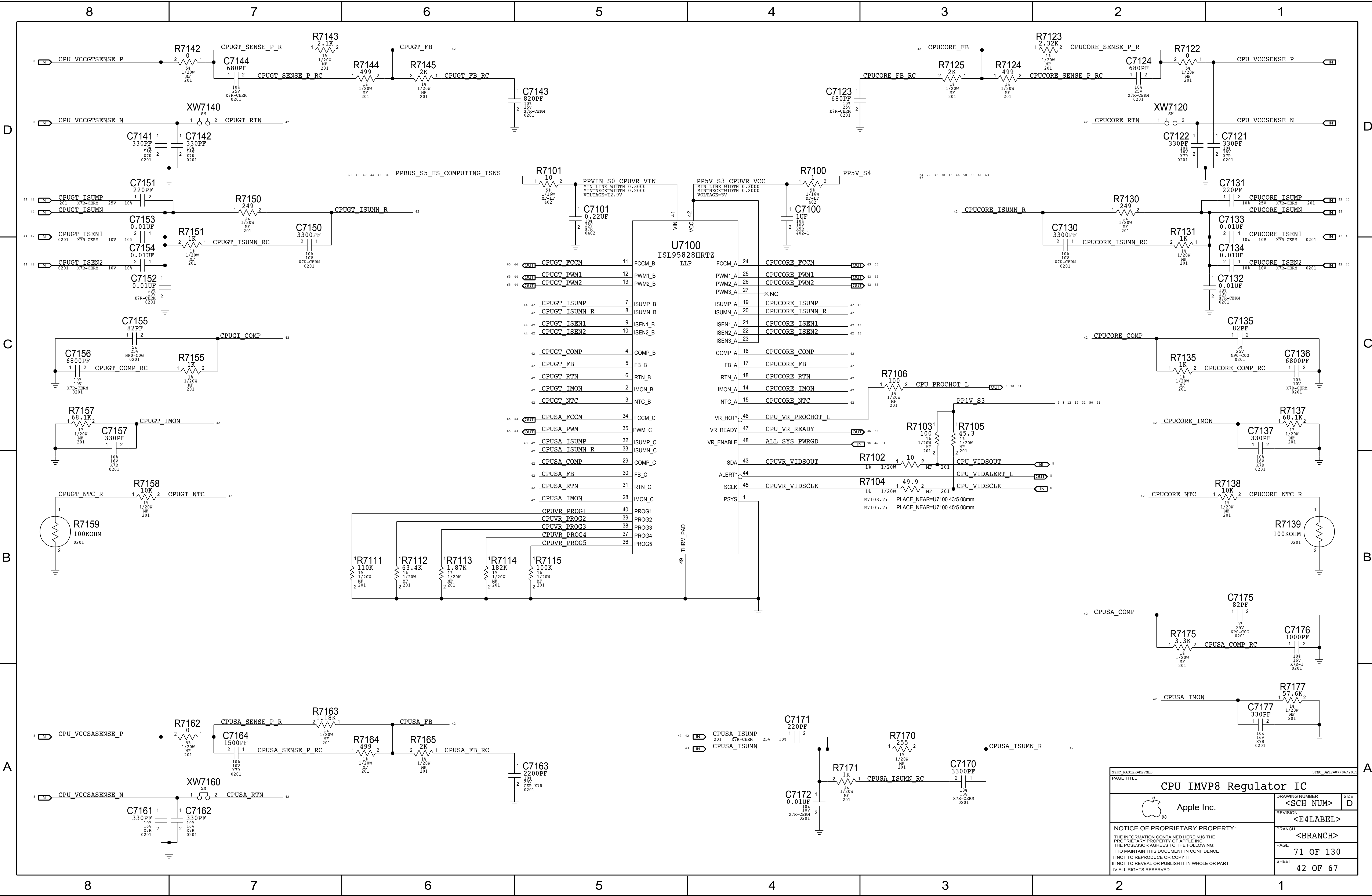


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Battery Connector & 3.3V G3Hot			
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		PAGE	69 OF 130
		SHEET	40 OF 67

Charger PMIC - Bansuri

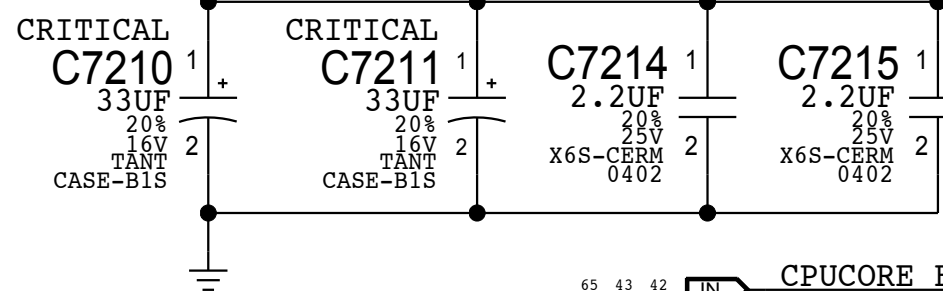


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PBus Supply & Battery Charger			
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		PAGE	70 OF 130
		SHEET	41 OF 67



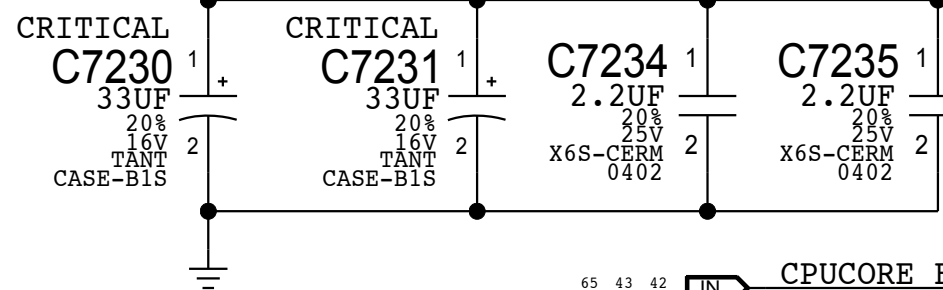
Note:Vcore design requires 4x POSCAPs
3x shared from other VRs

Phase 1

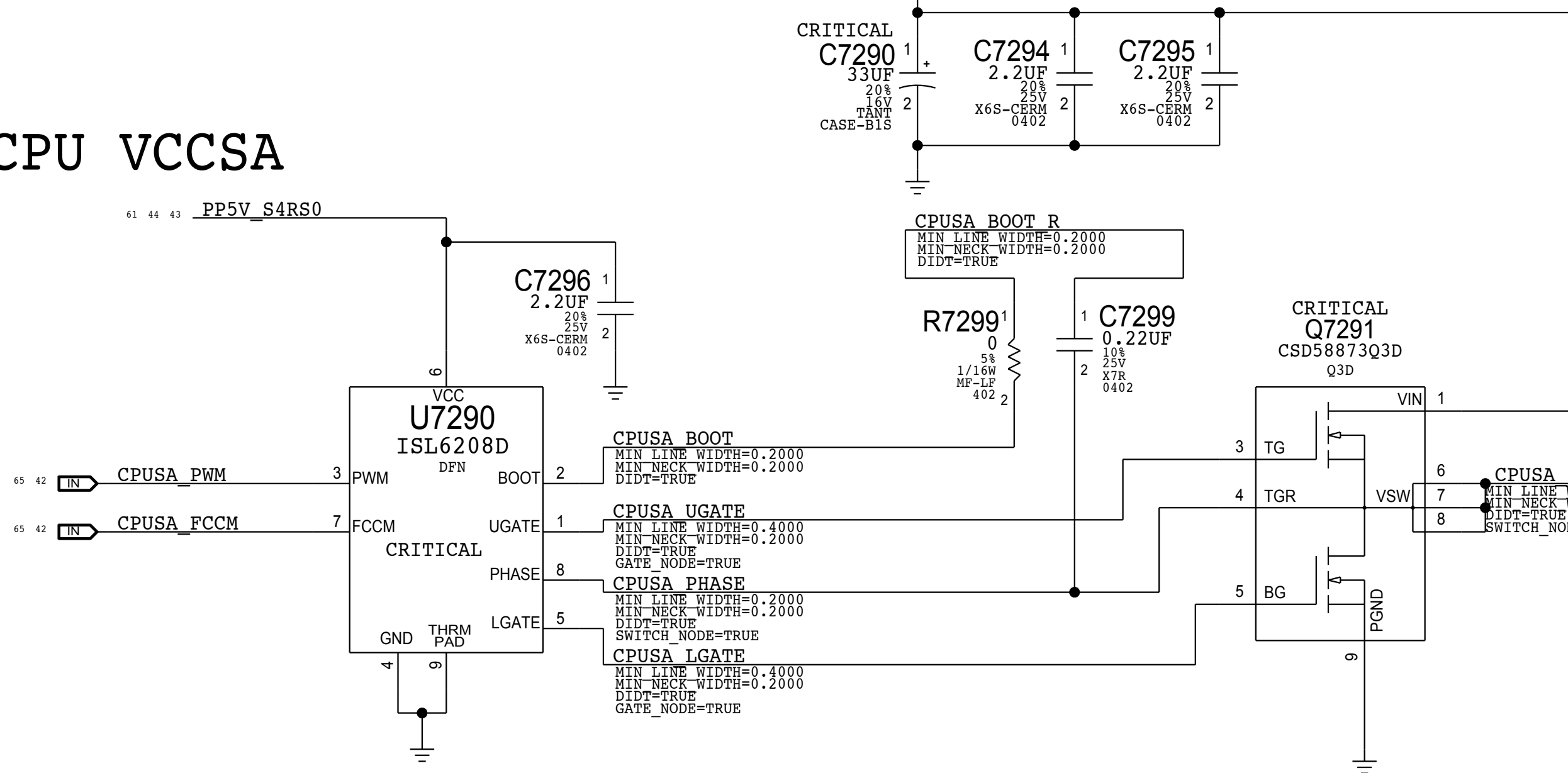


CPU VCORE

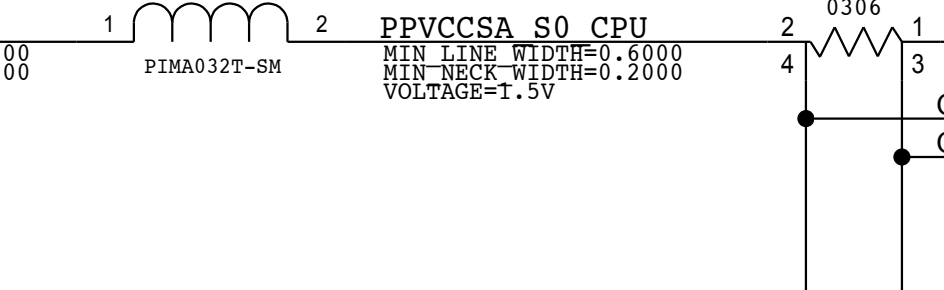
Phase 2



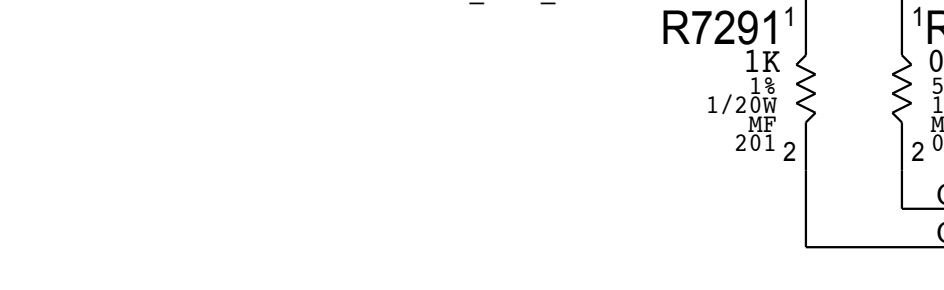
CPU VCCSA



Phase 1



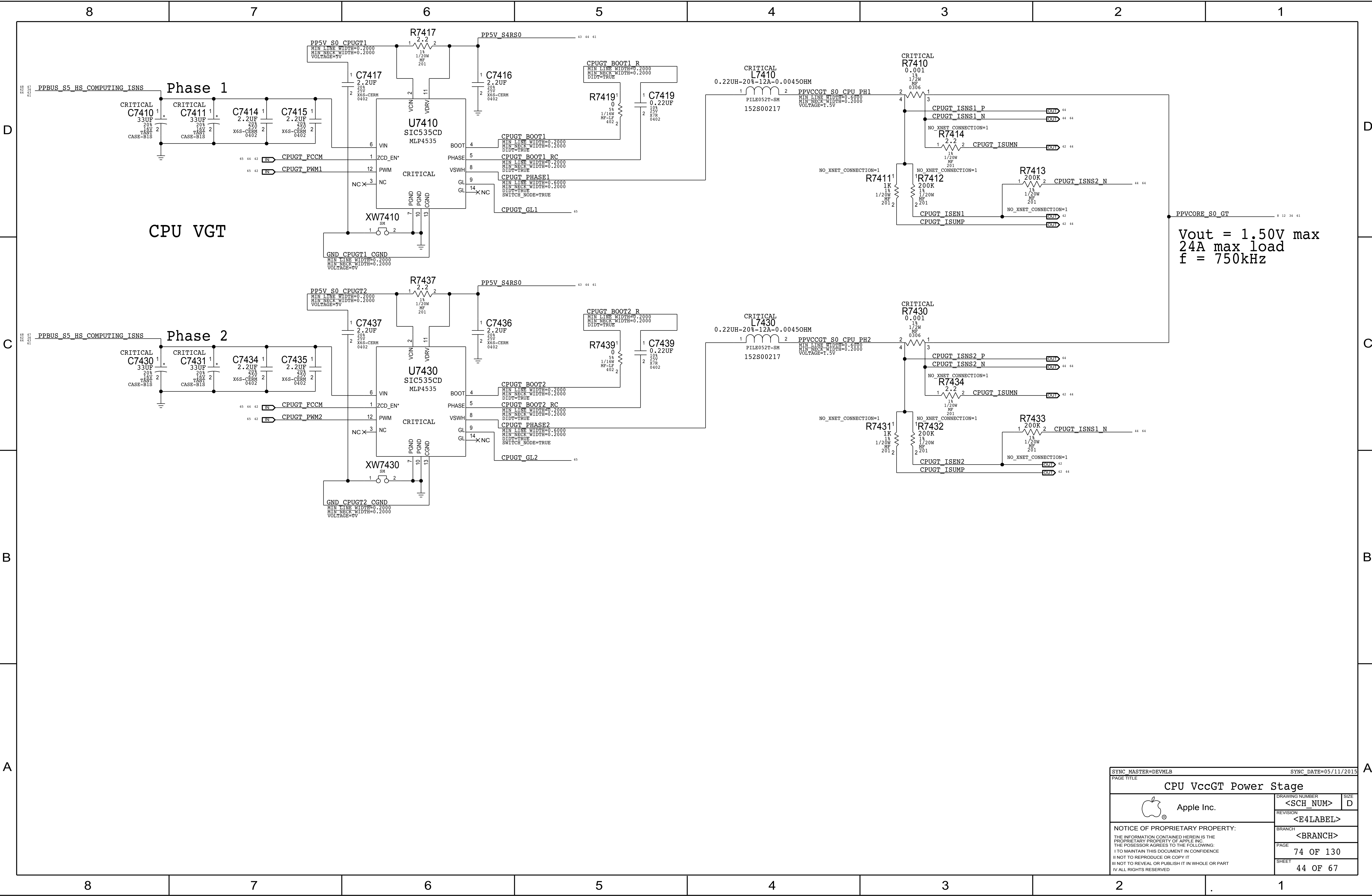
Phase 2



Vout = 1.05V max
4.1A max load
f = 750kHz

Vout = 1.50V max
24A max load
f = 750kHz

SYNC_MASTER=DEVMLB		SYNC_DATE=05/19/2015	
PAGE TITLE			
CPU VCore/VccSA Power Stage			
 Apple Inc.	DRAWING NUMBER		SIZE
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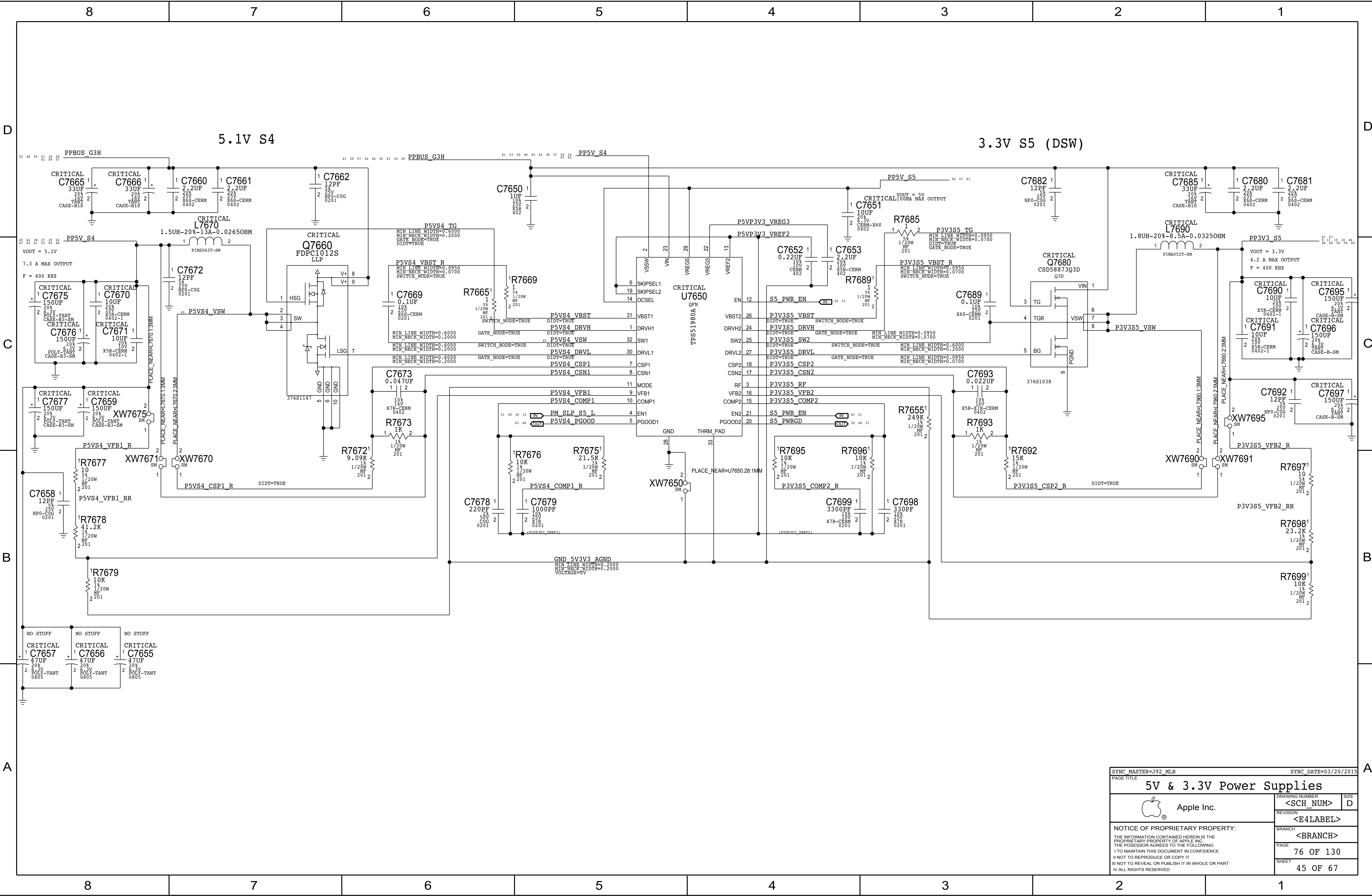


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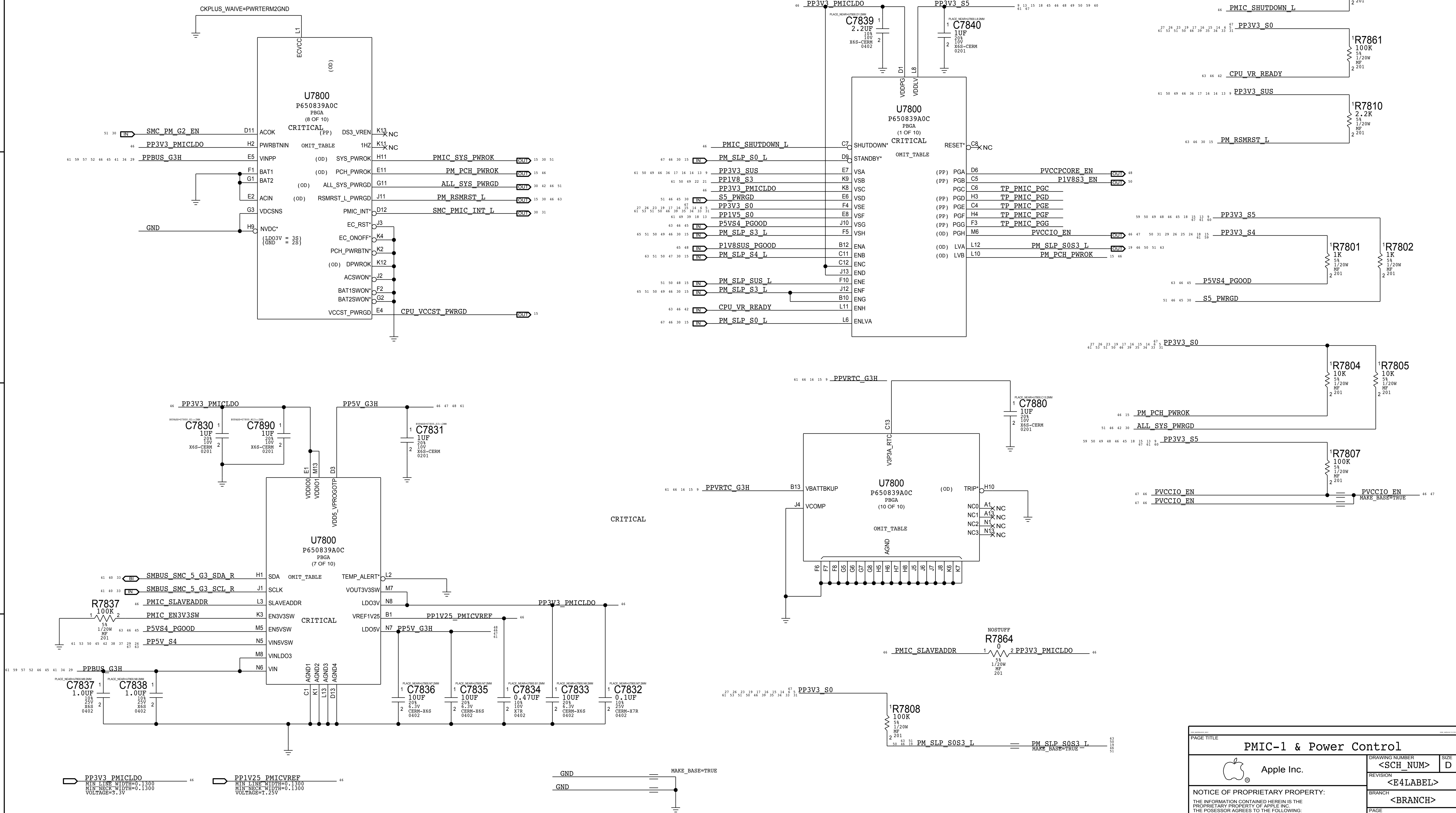
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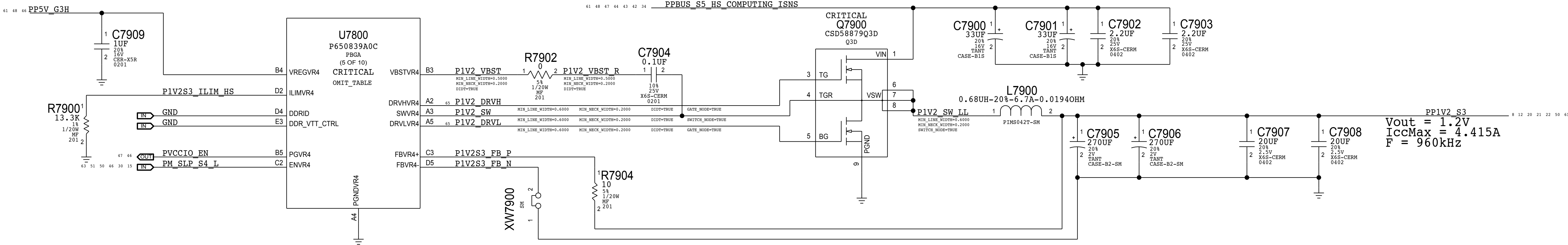
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5V & 3.3V Power Supplies			
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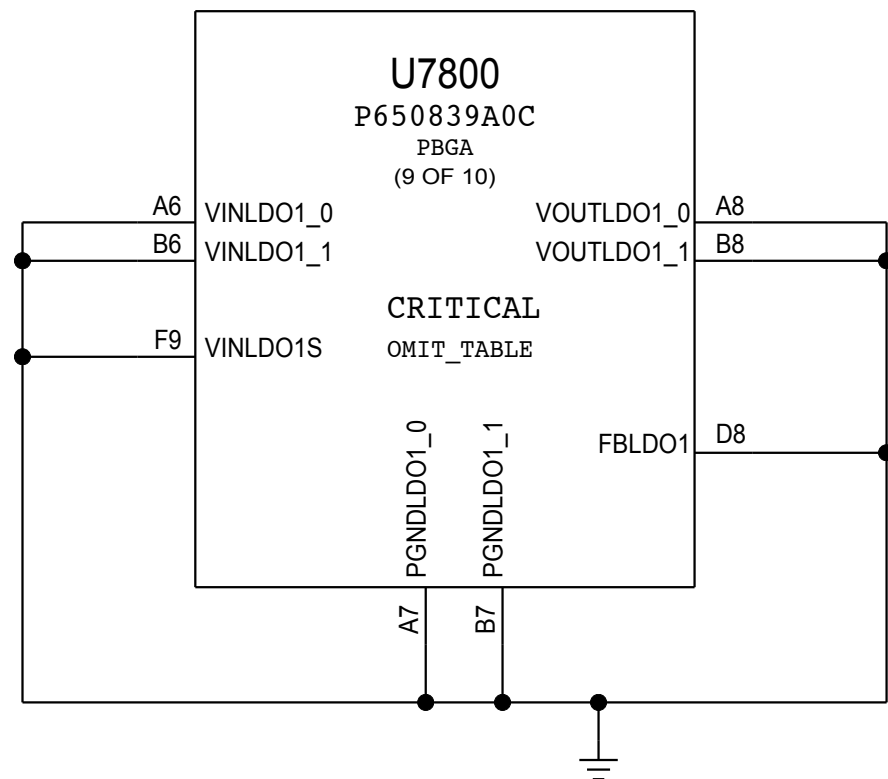
BANJO - PMIC Control



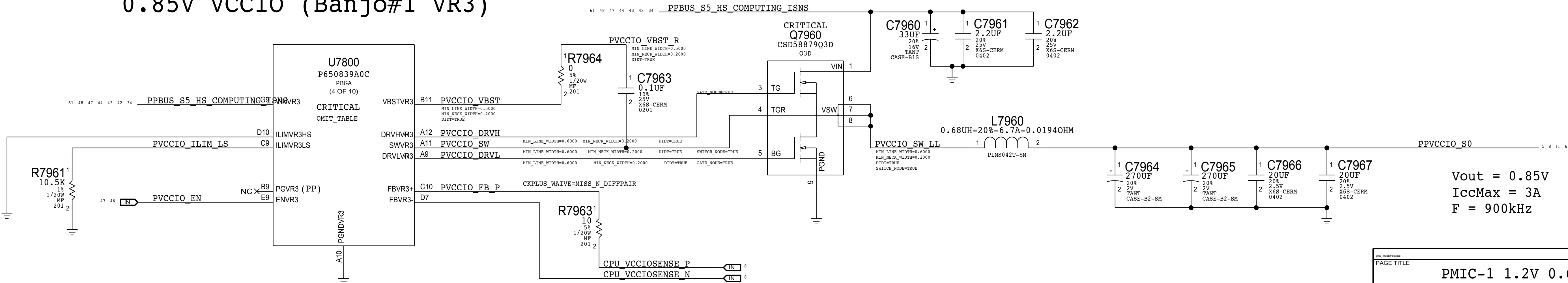
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0.6V VTT (Banjo#1 LDO1)

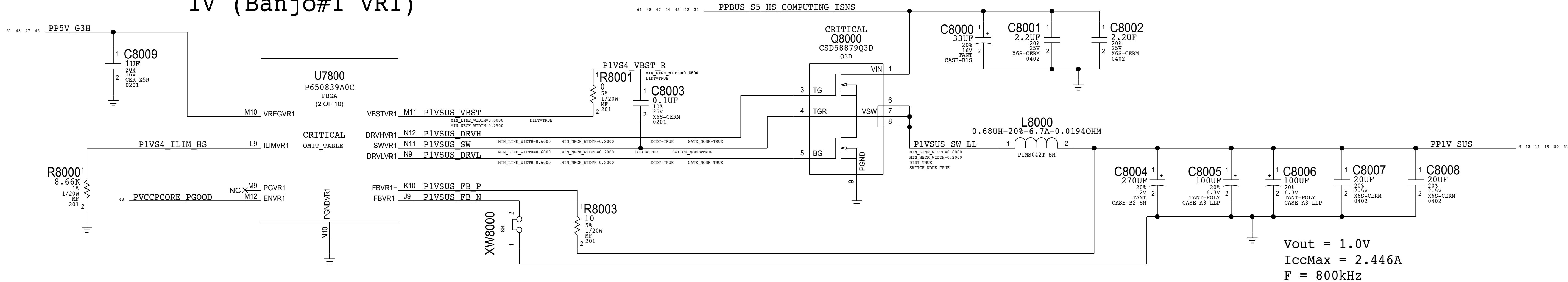


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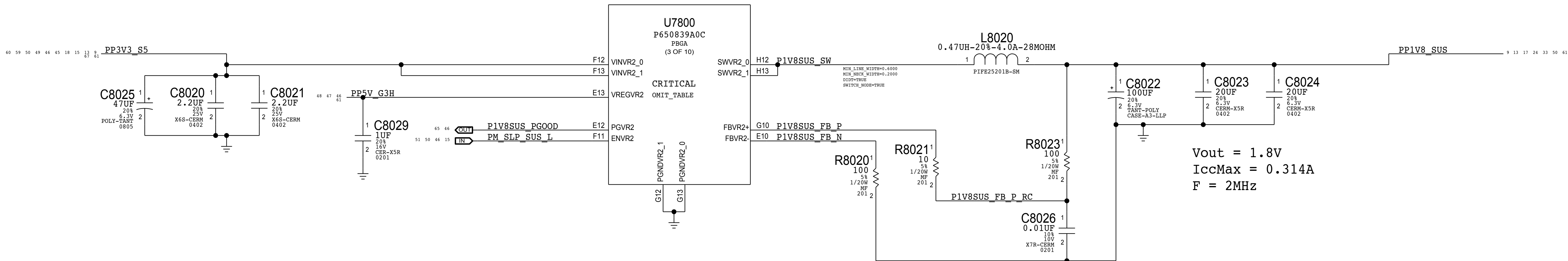


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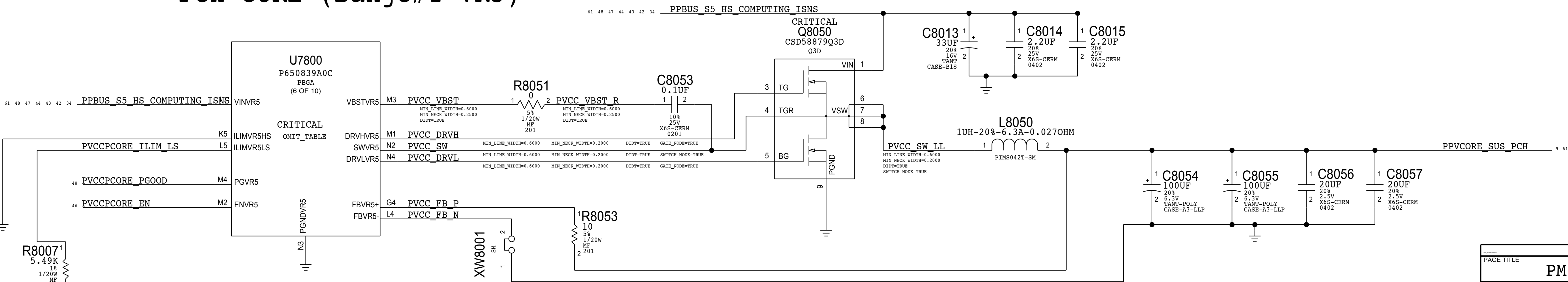
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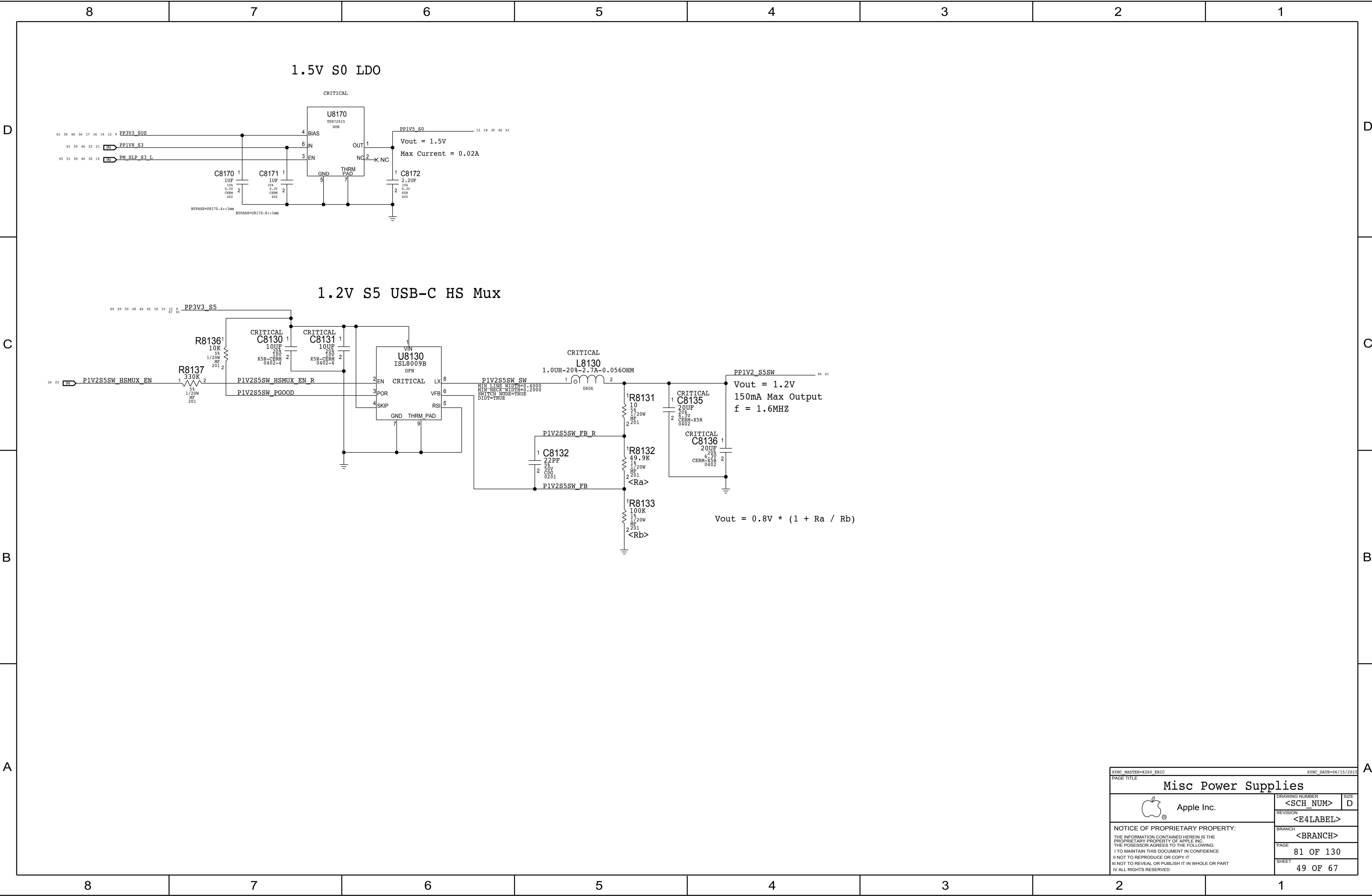
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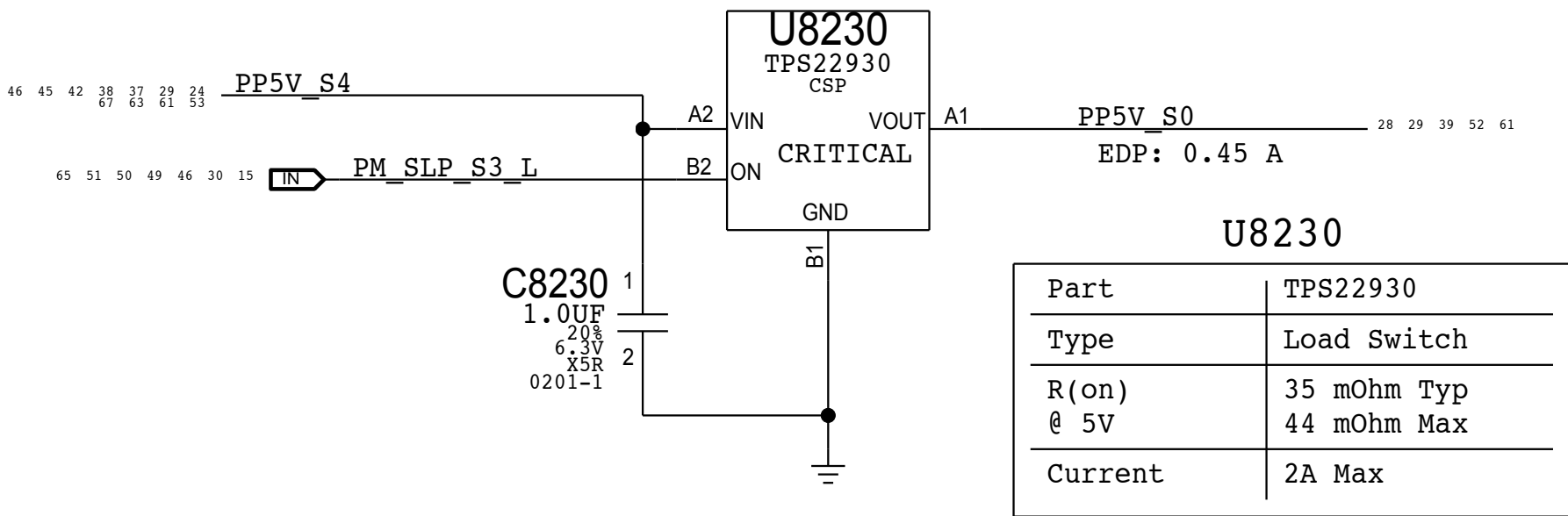
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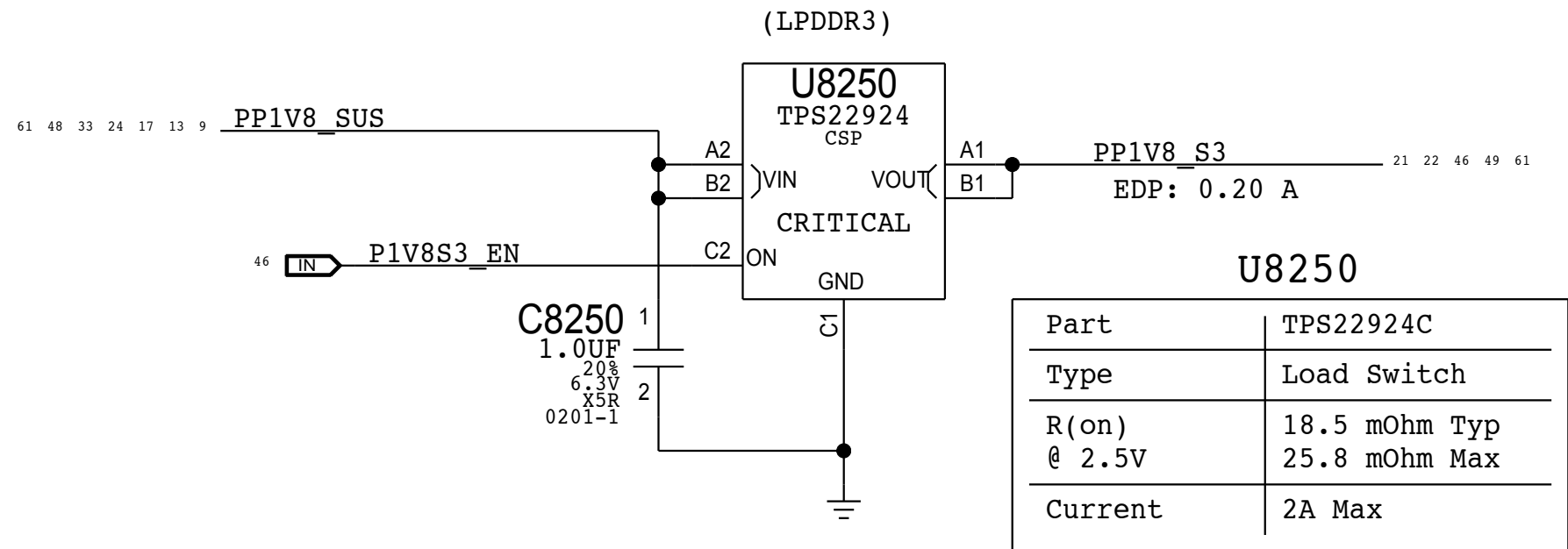
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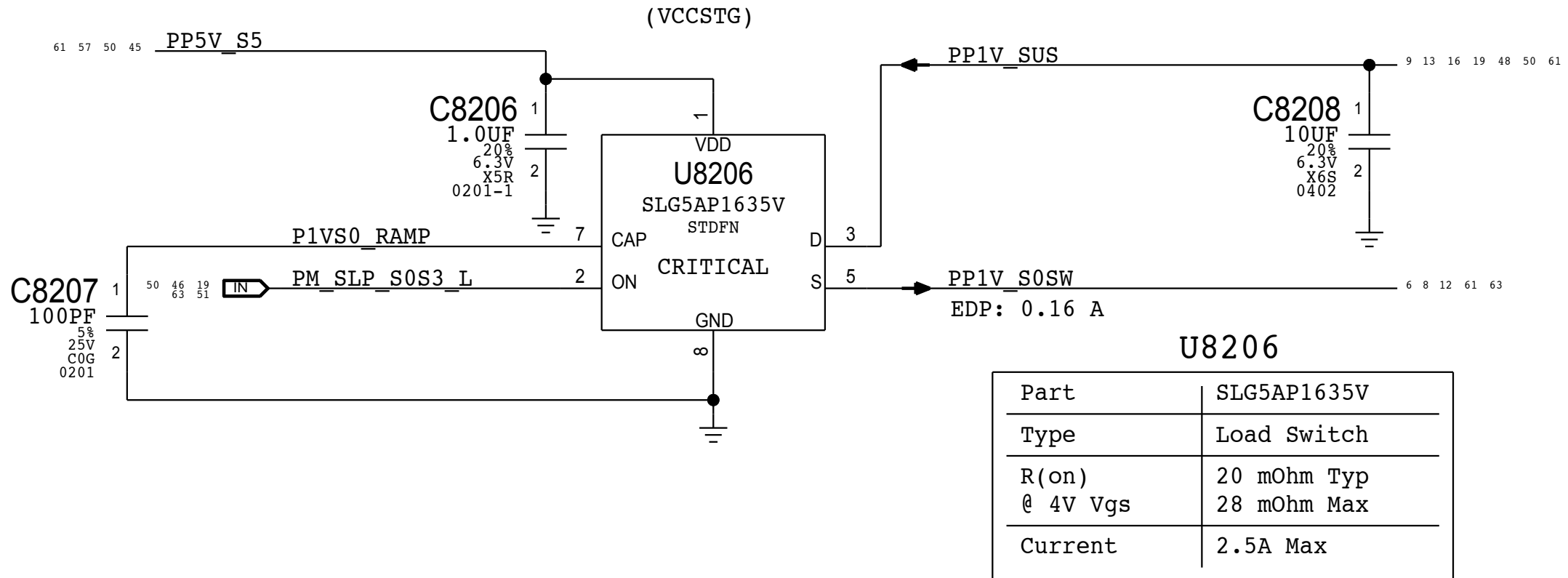
5V S0 Switch



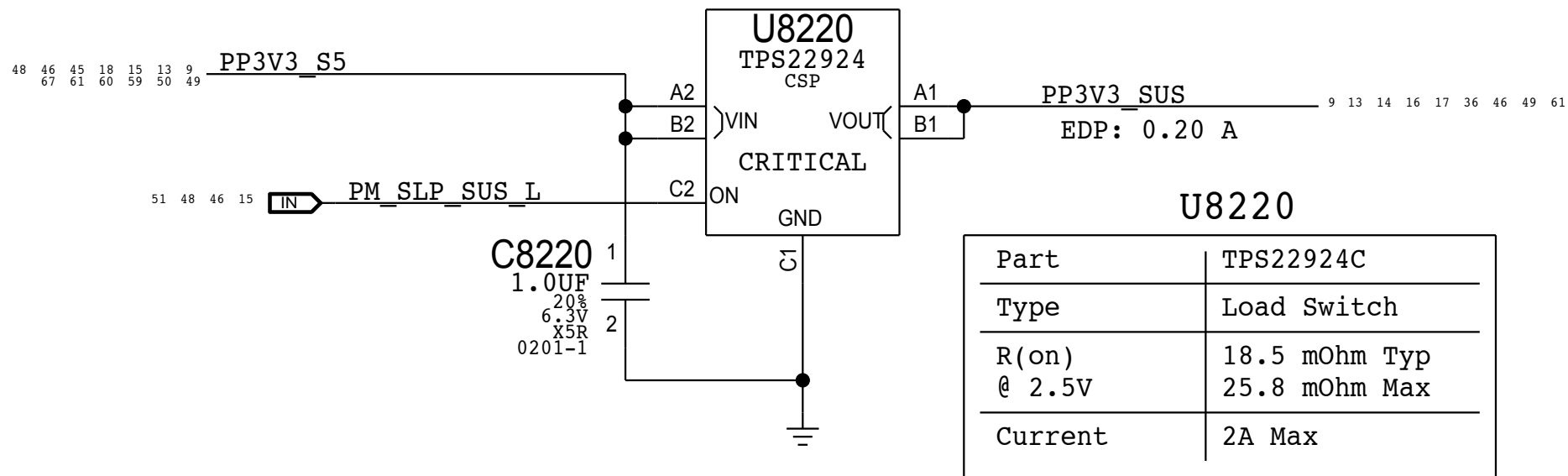
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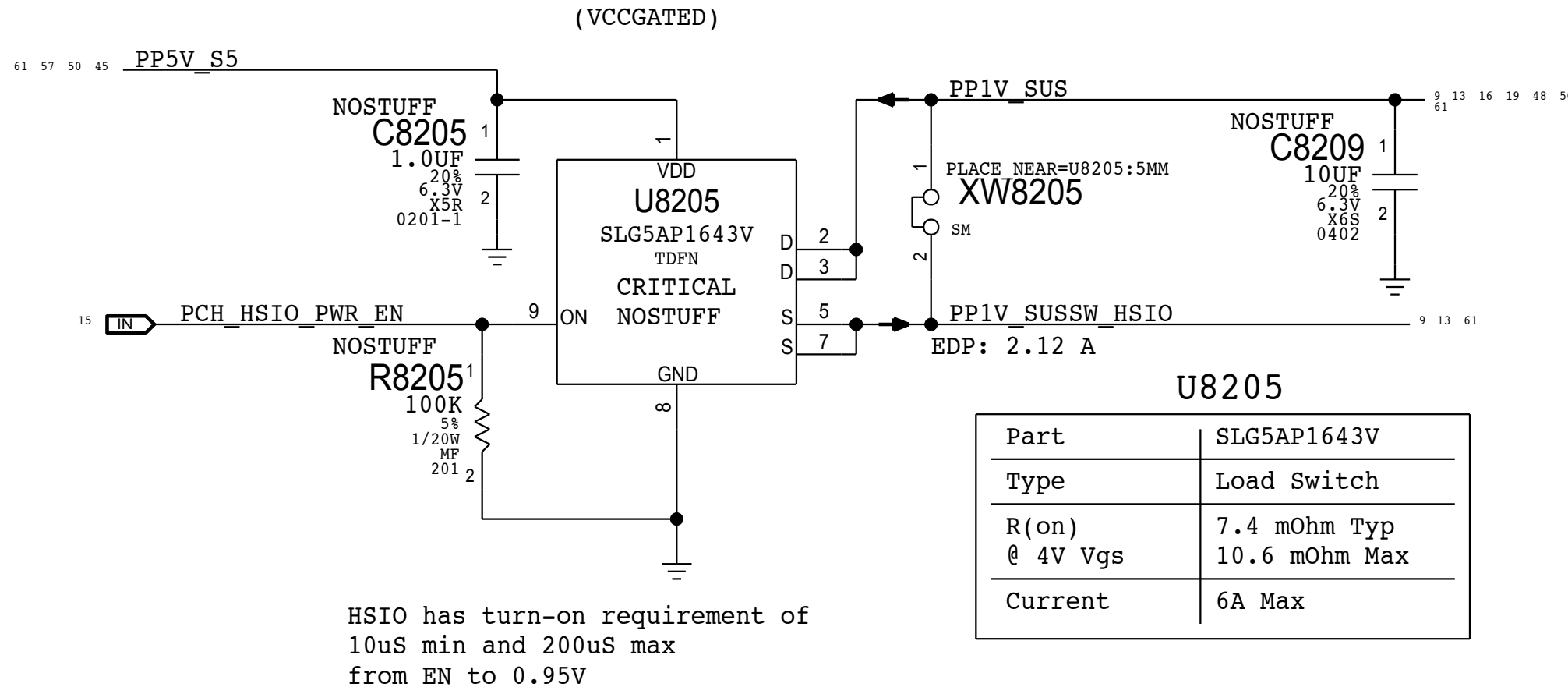
1.0V S0SW Switch



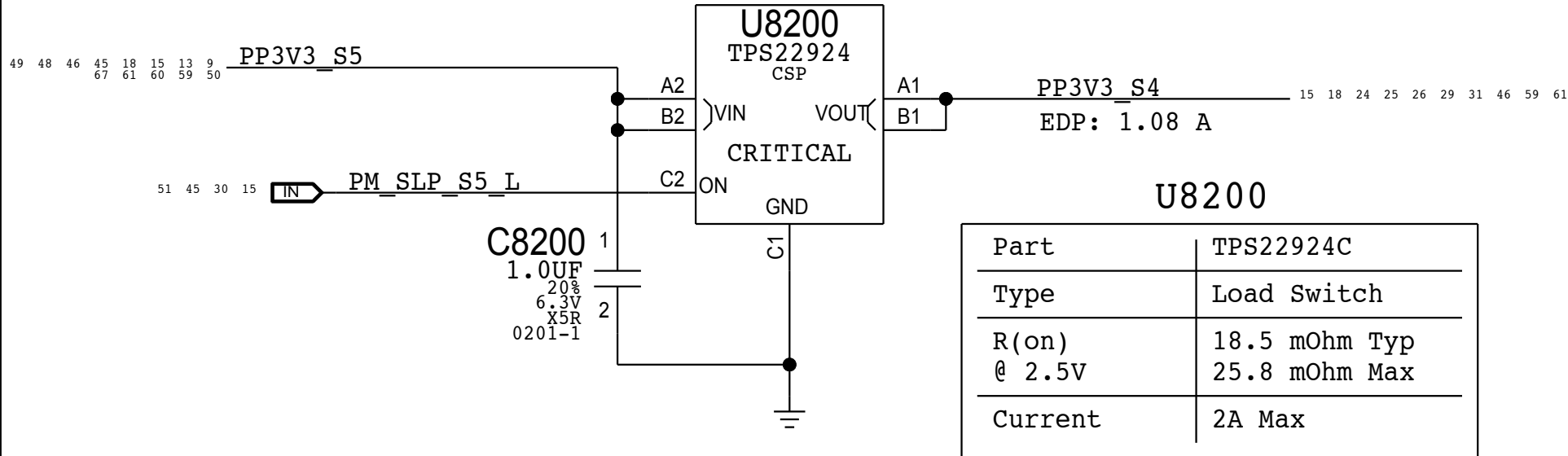
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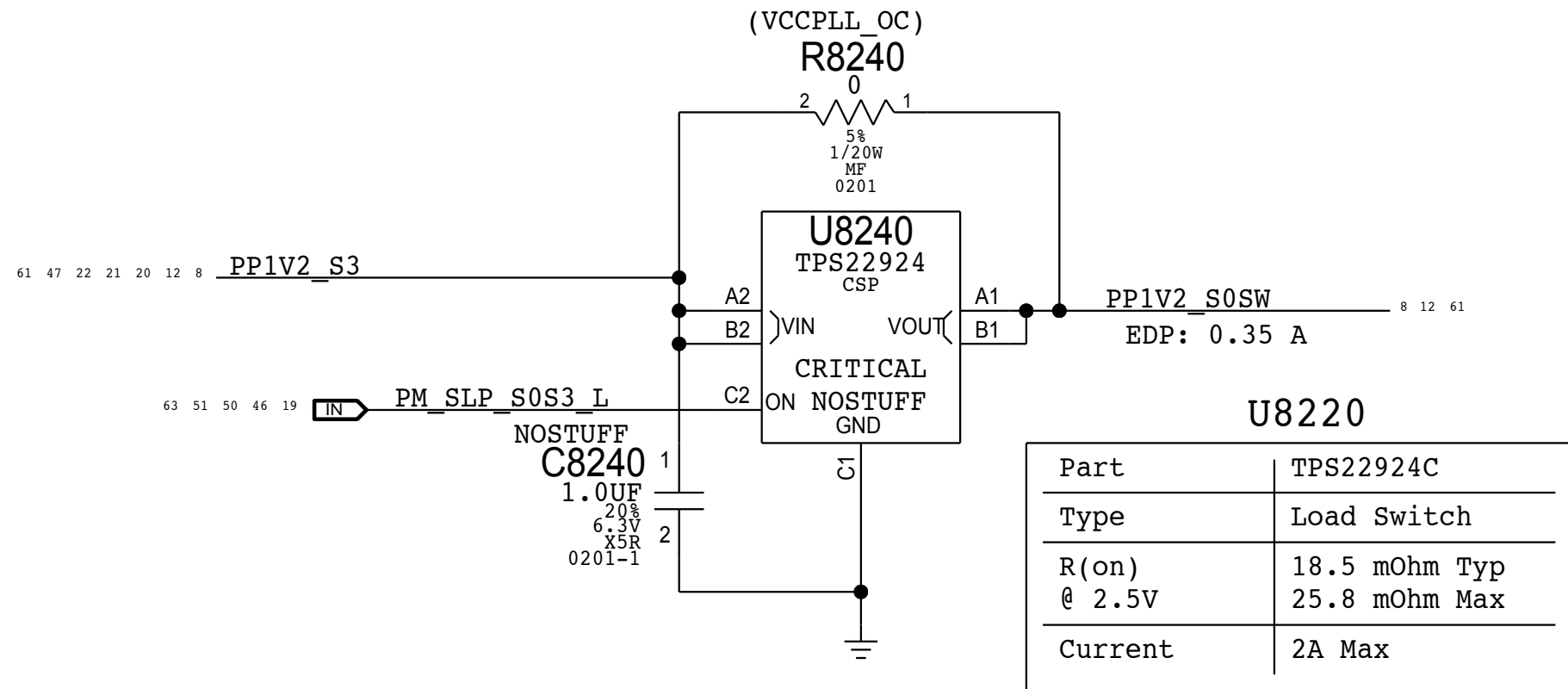
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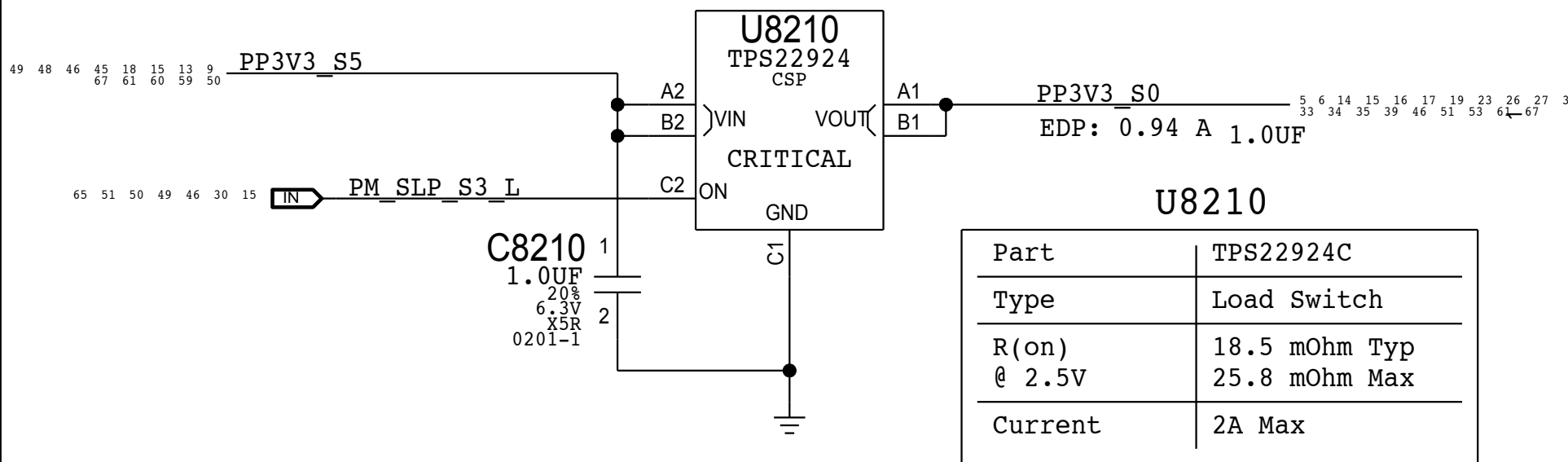
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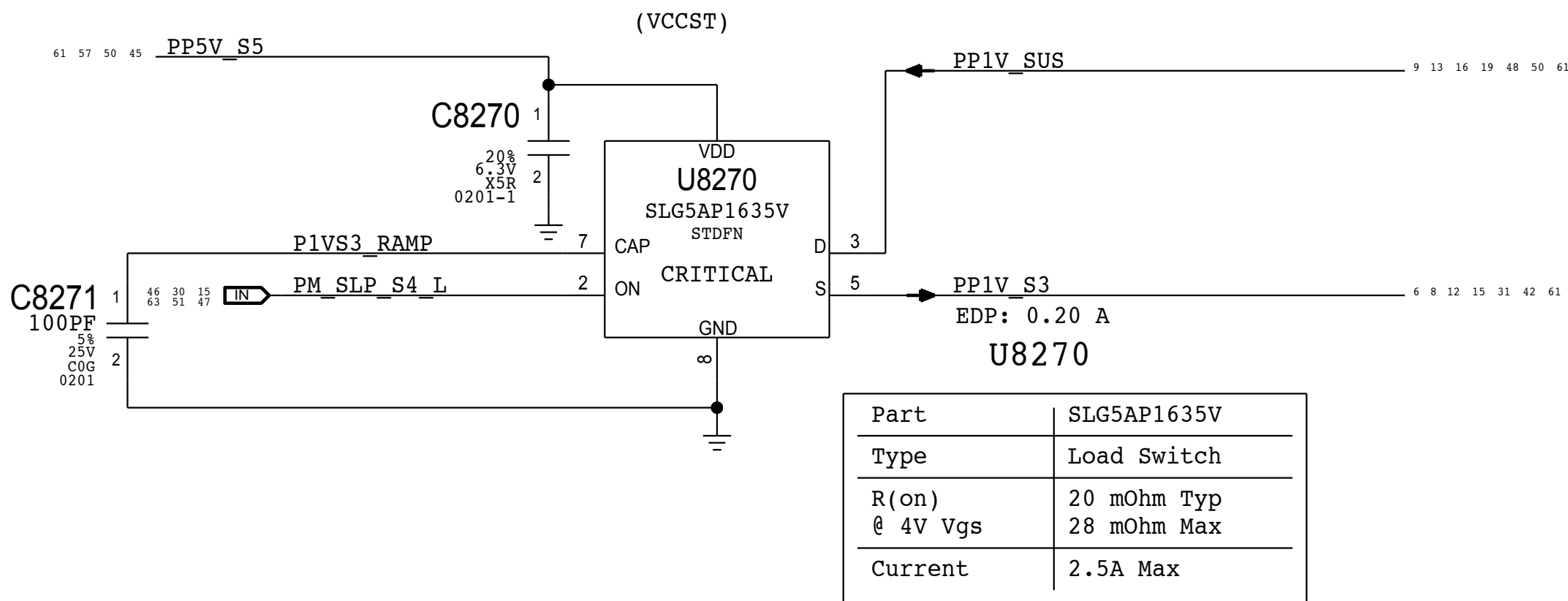
1.2V S0SW Switch



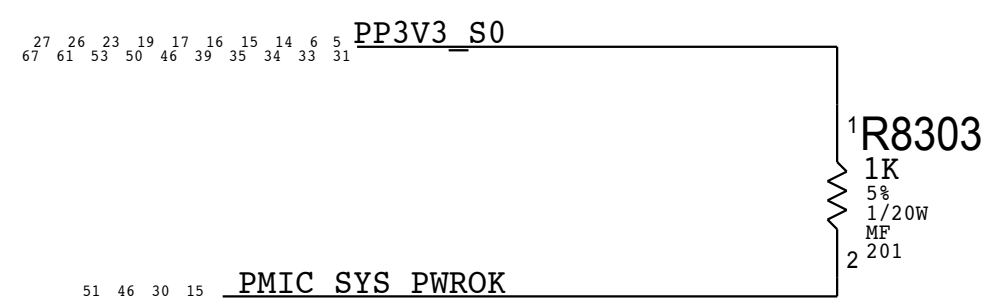
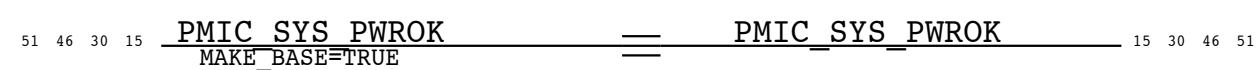
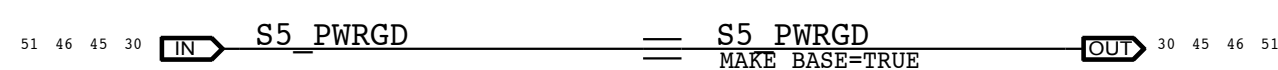
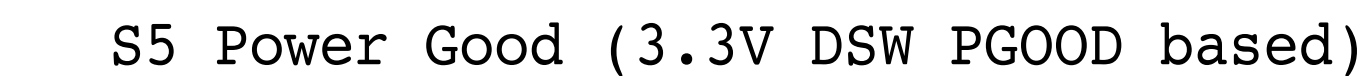
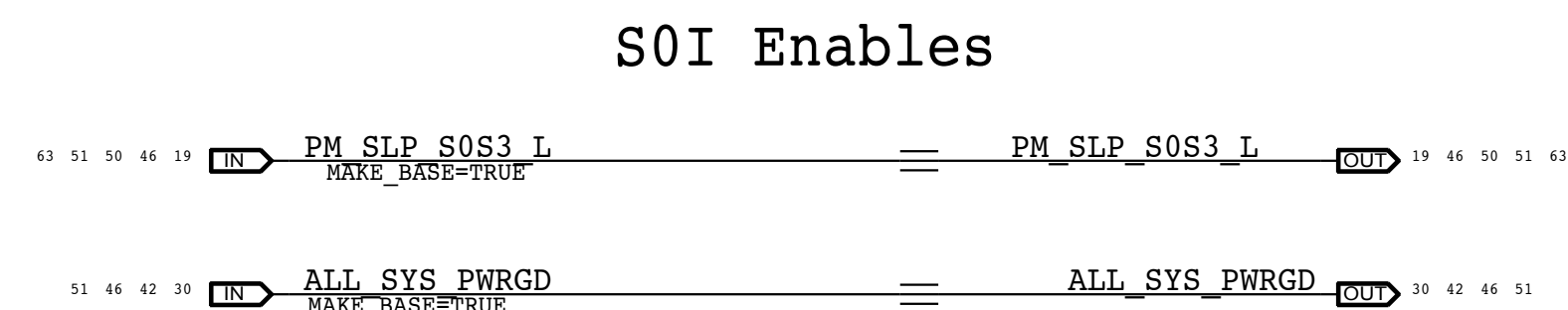
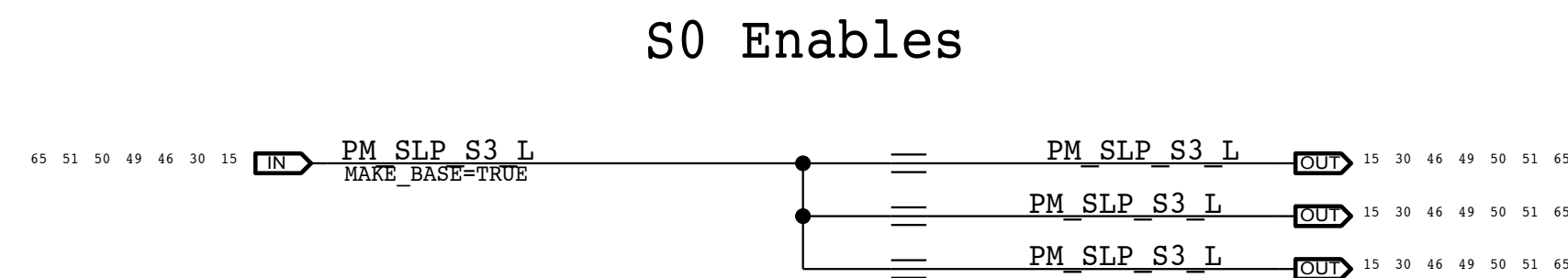
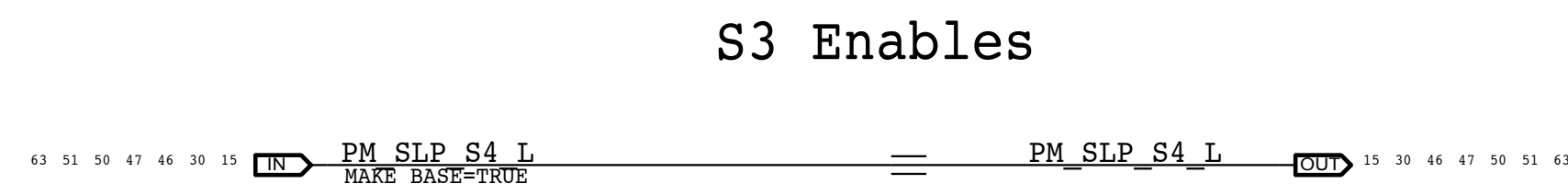
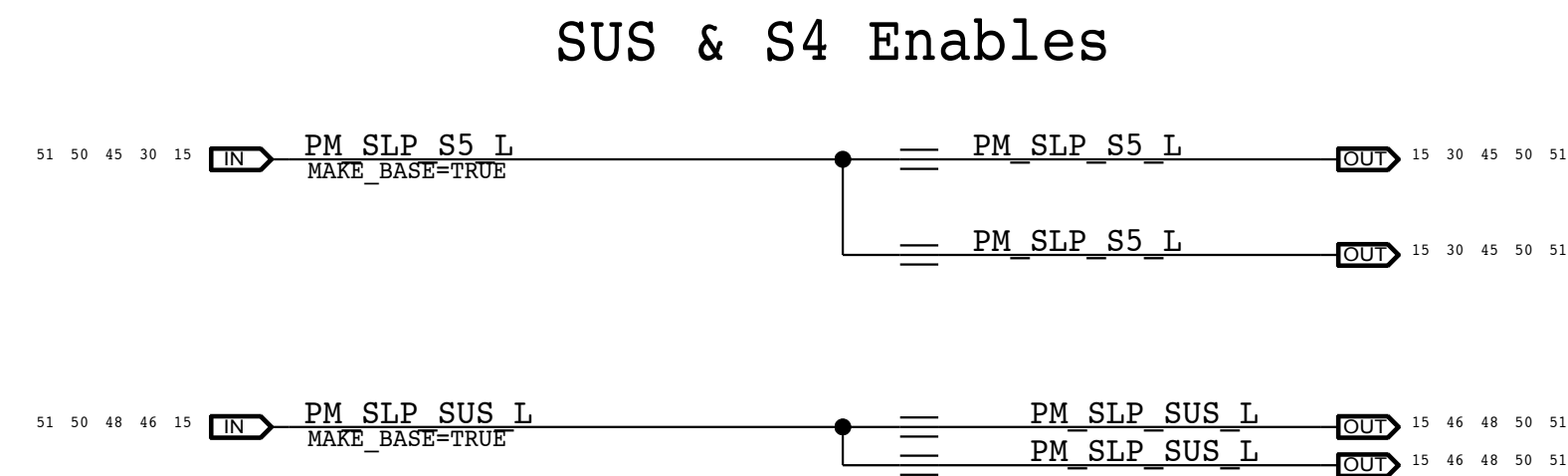
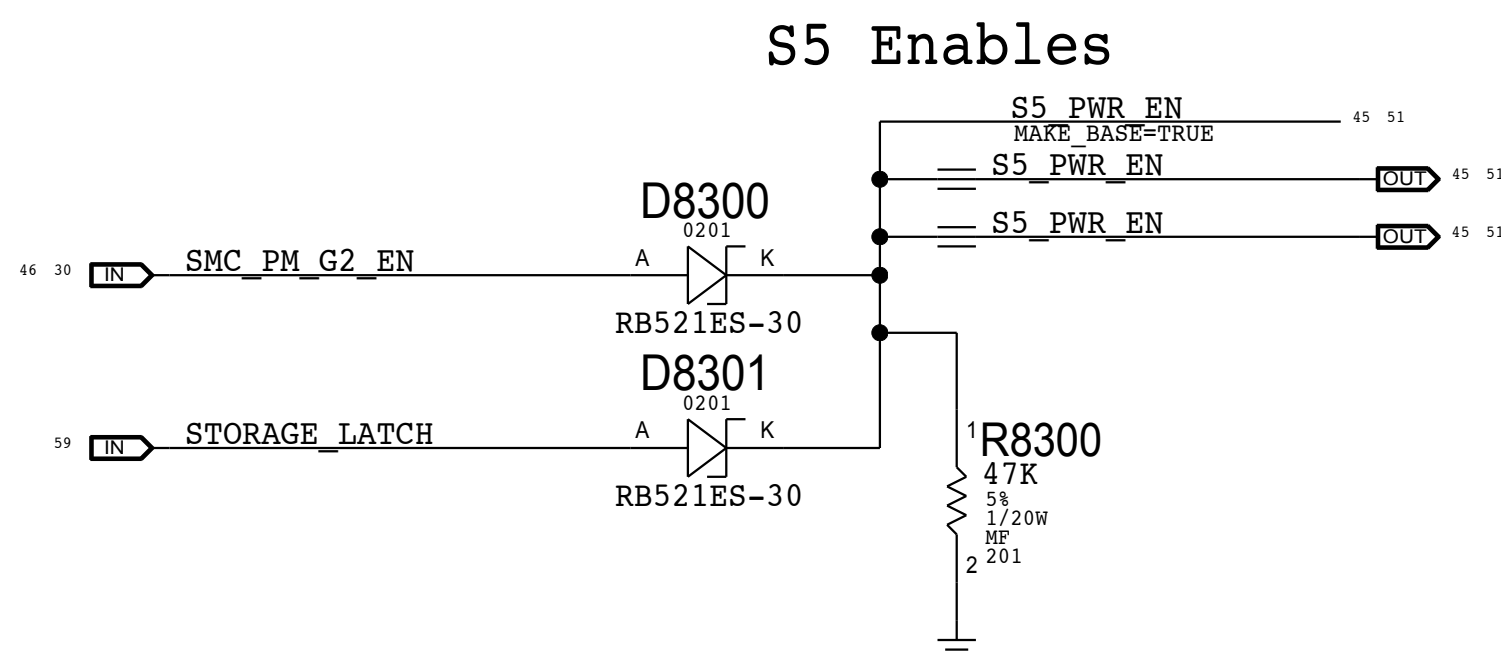
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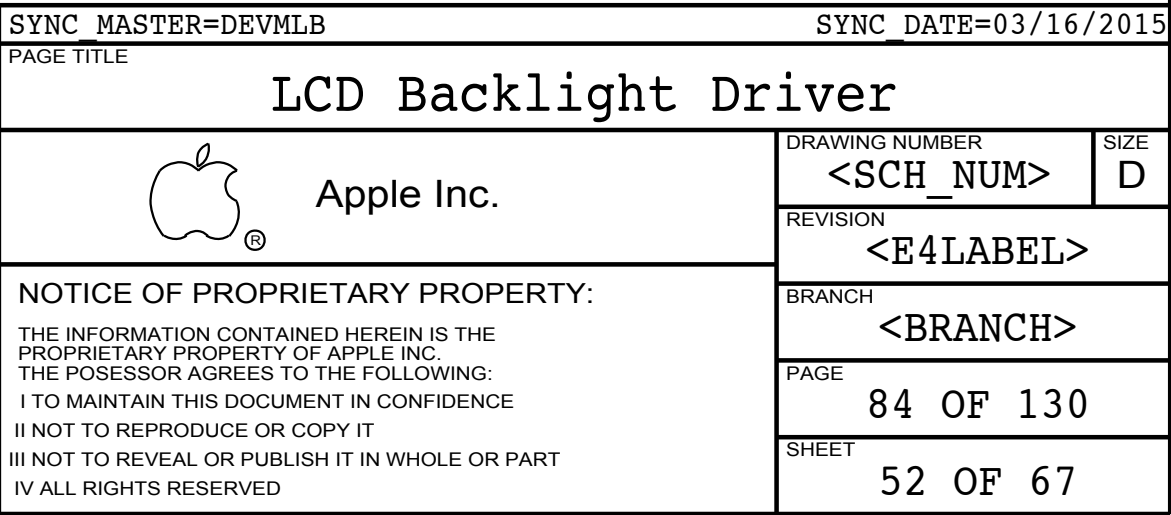


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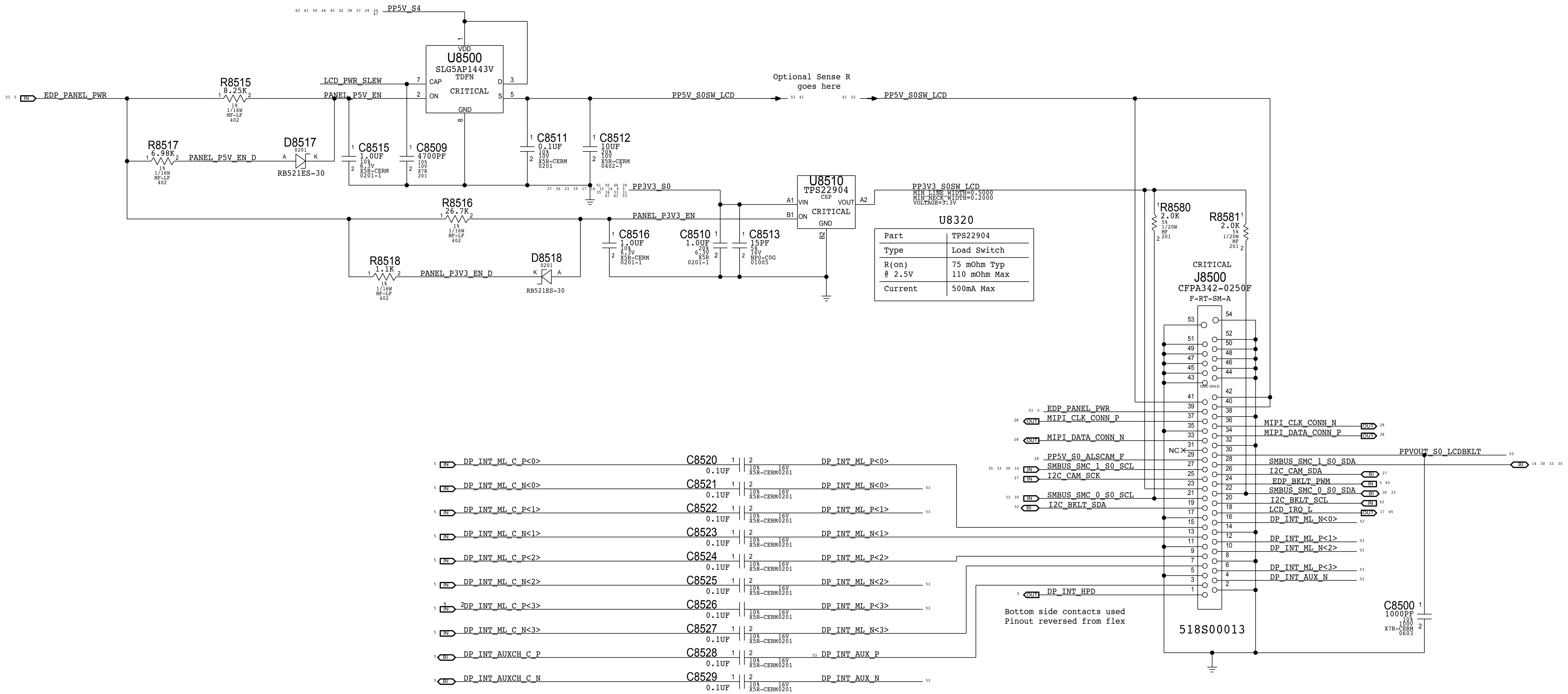


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Run (S0)	X	1	1	1	1	1
Sleep (S1AC)	1	1	1	1	1	0
Sleep (S3)	0	1	1	1	1	0
Deep Sleep (S4)	0	1	0	1	0	0
Deep Sleep (S5)	0	1	0	0	0	0
Battery Off (G3HotAC)	toggle 3Hz	0	0	0	0	0
Battery Off (G3Hot)	1	0	0	0	0	0

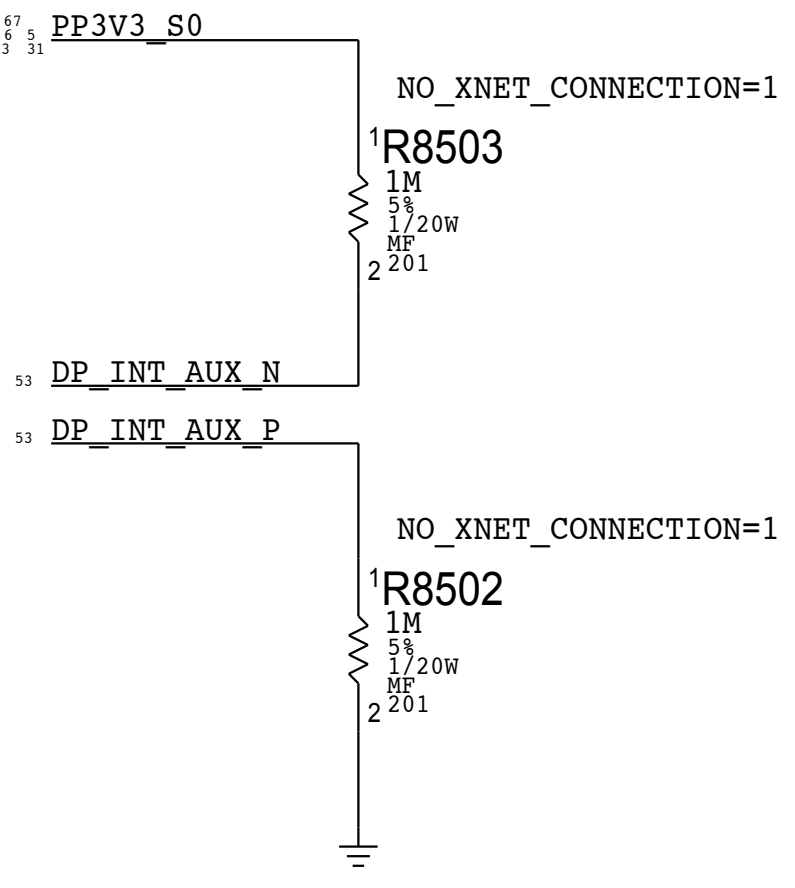




LCD PANEL INTERFACE (eDP) + Camera (MIPI)



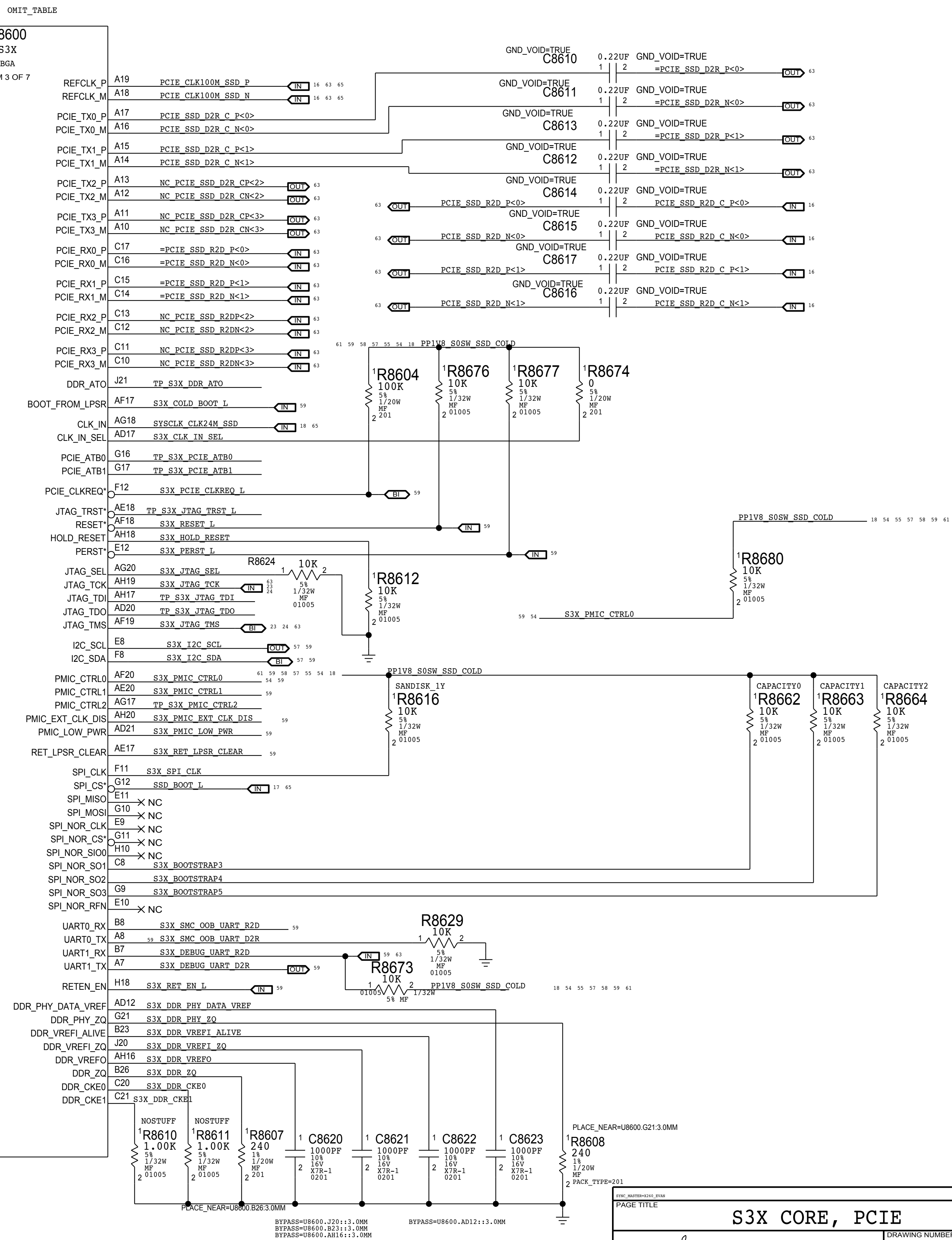
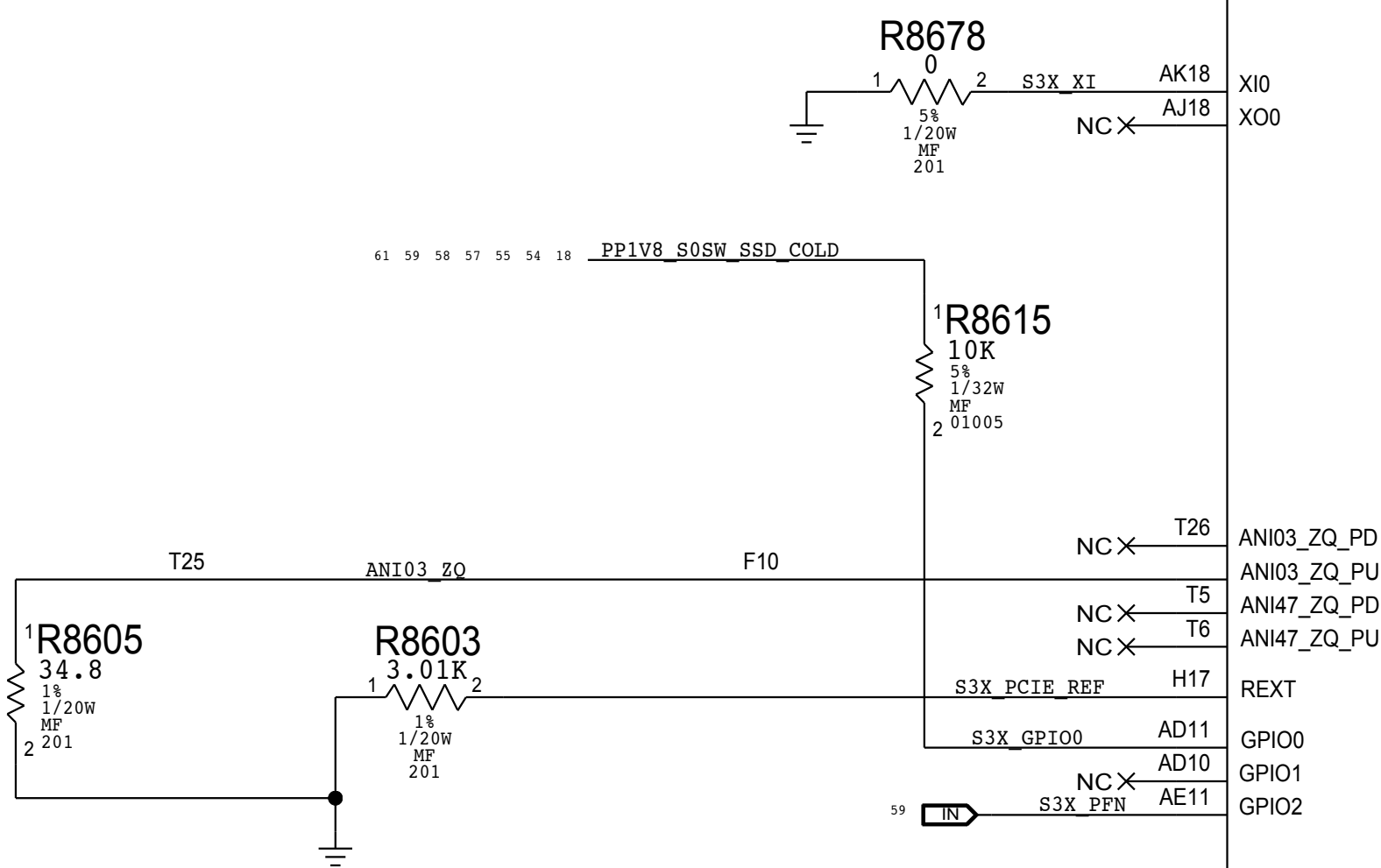
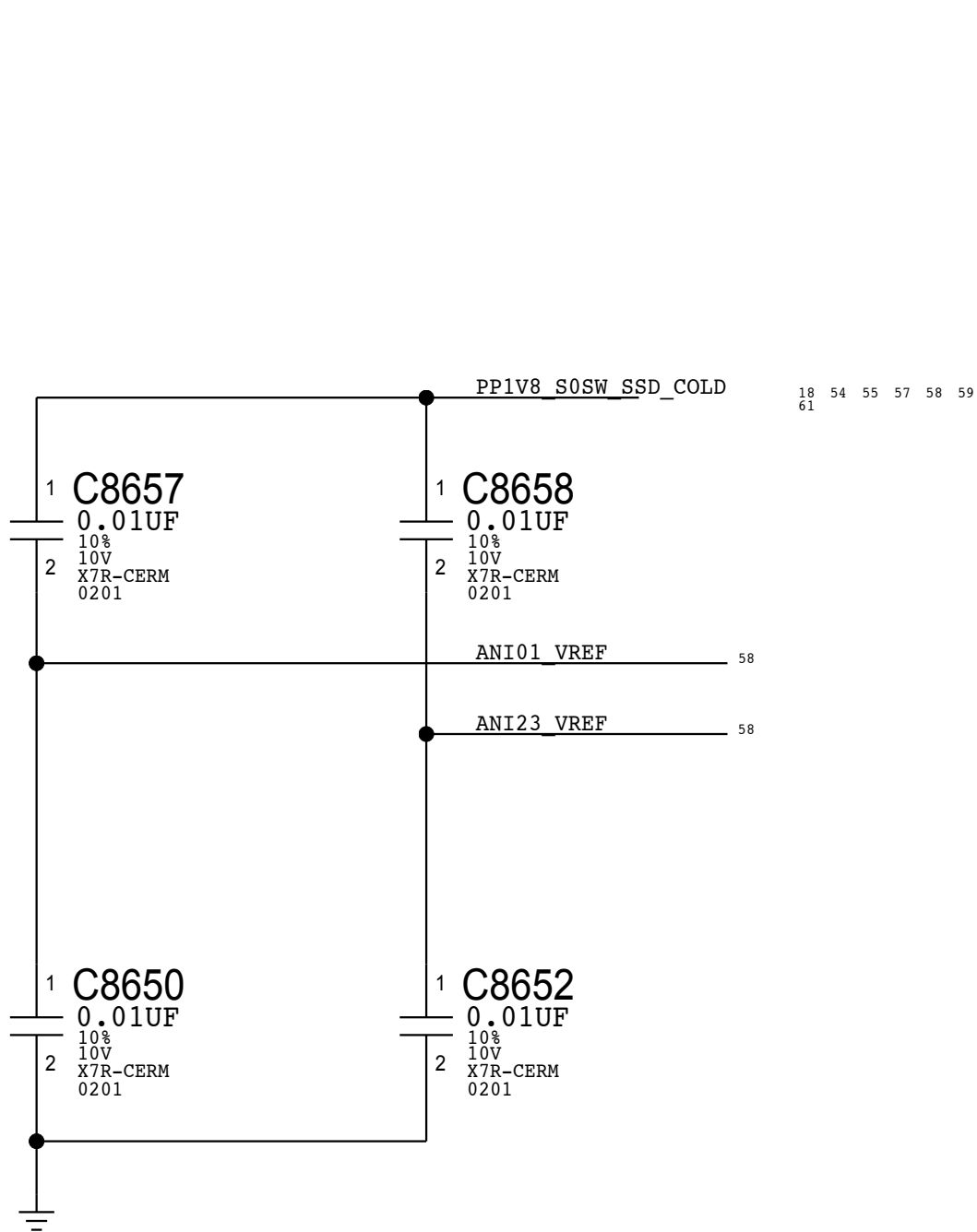
LCD Panel HPD & AUX strapping



8	7	6	5	4	3	2	1
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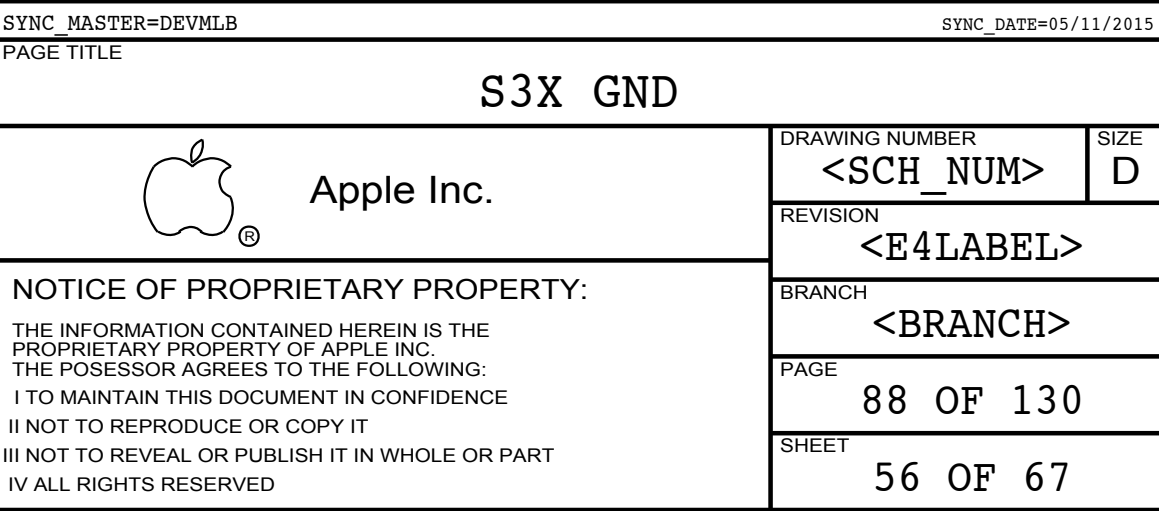
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CONFIG	CAPACITY2 R0864	CAPACITY1 R0863	CAPACITY0 R0862
000 - 32GB	NOSTUFF	NOSTUFF	NOSTUFF
001 - 64GB	NOSTUFF	NOSTUFF	ASSEMBLE
010 - 128GB	NOSTUFF	ASSEMBLE	NOSTUFF
011 - 256GB	NOSTUFF	ASSEMBLE	ASSEMBLE
100 - 512GB	ASSEMBLE	NOSTUFF	NOSTUFF
101 - 1024GB	ASSEMBLE	NOSTUFF	ASSEMBLE
110 - 2048GB	ASSEMBLE	ASSEMBLE	NOSTUFF
111 - RESERVED	ASSEMBLE	ASSEMBLE	ASSEMBLE

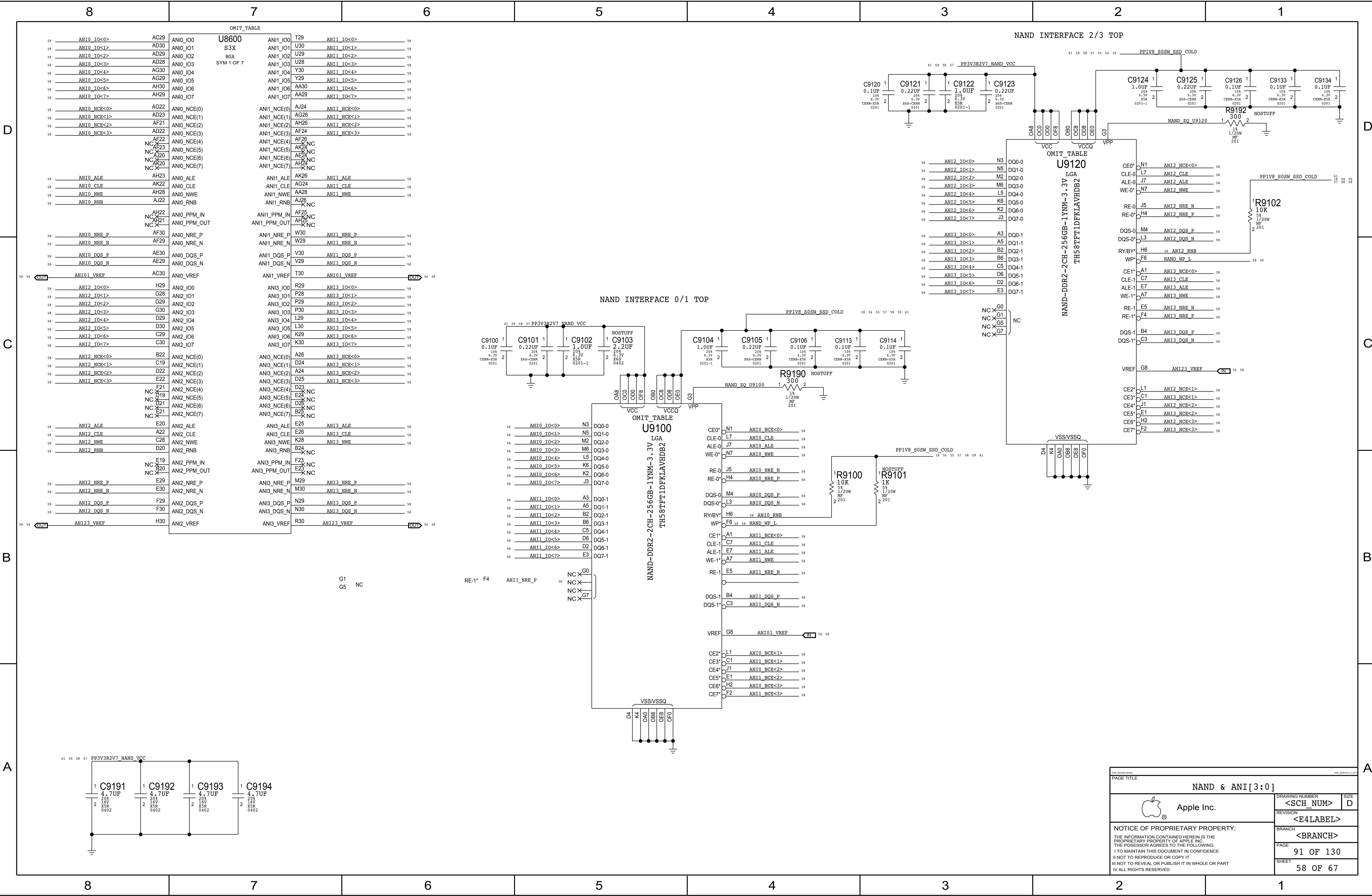
OPERATION MODE (ODT, CLK FREQ, ETC)			
CONFIG	OP_MODE2 R6614	OP_MODE1 R6615	OP_MODE0 R6680
000 - TEABERRY	NOSTUFF	NOSTUFF	NOSTUFF
001 - XB56 GS	NOSTUFF	NOSTUFF	ASSEMBLE
010 - RESERVED	NOSTUFF	ASSEMBLE	NOSTUFF
111 - X260	NOSTUFF	ASSEMBLE	ASSEMBLE
000 - RESERVED	ASSEMBLE	NOSTUFF	NOSTUFF
101 - RESERVED	ASSEMBLE	NOSTUFF	ASSEMBLE
110 - RESERVED	ASSEMBLE	ASSEMBLE	NOSTUFF
111 - RESERVED	ASSEMBLE	ASSEMBLE	ASSEMBLE

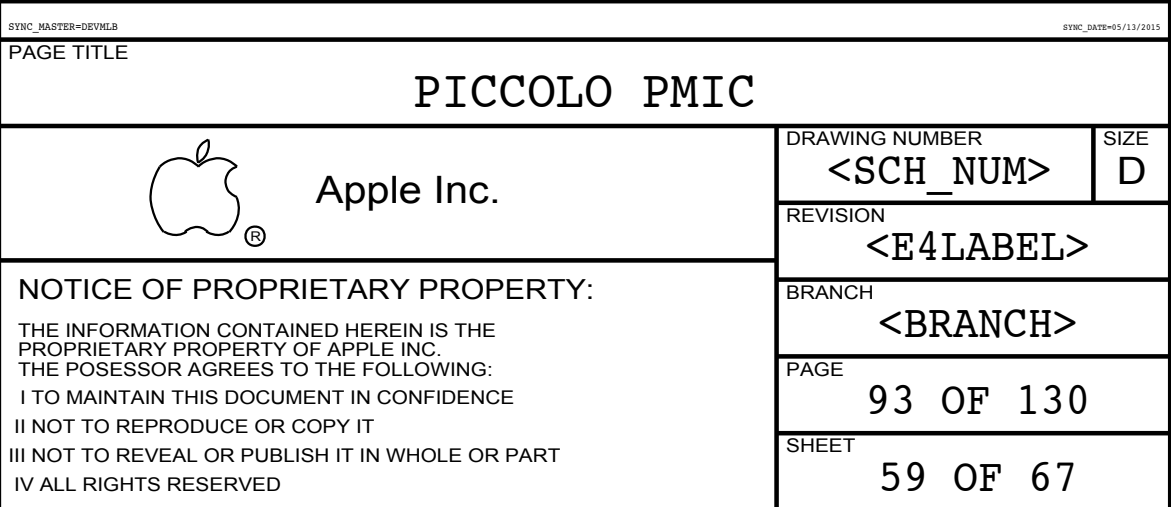


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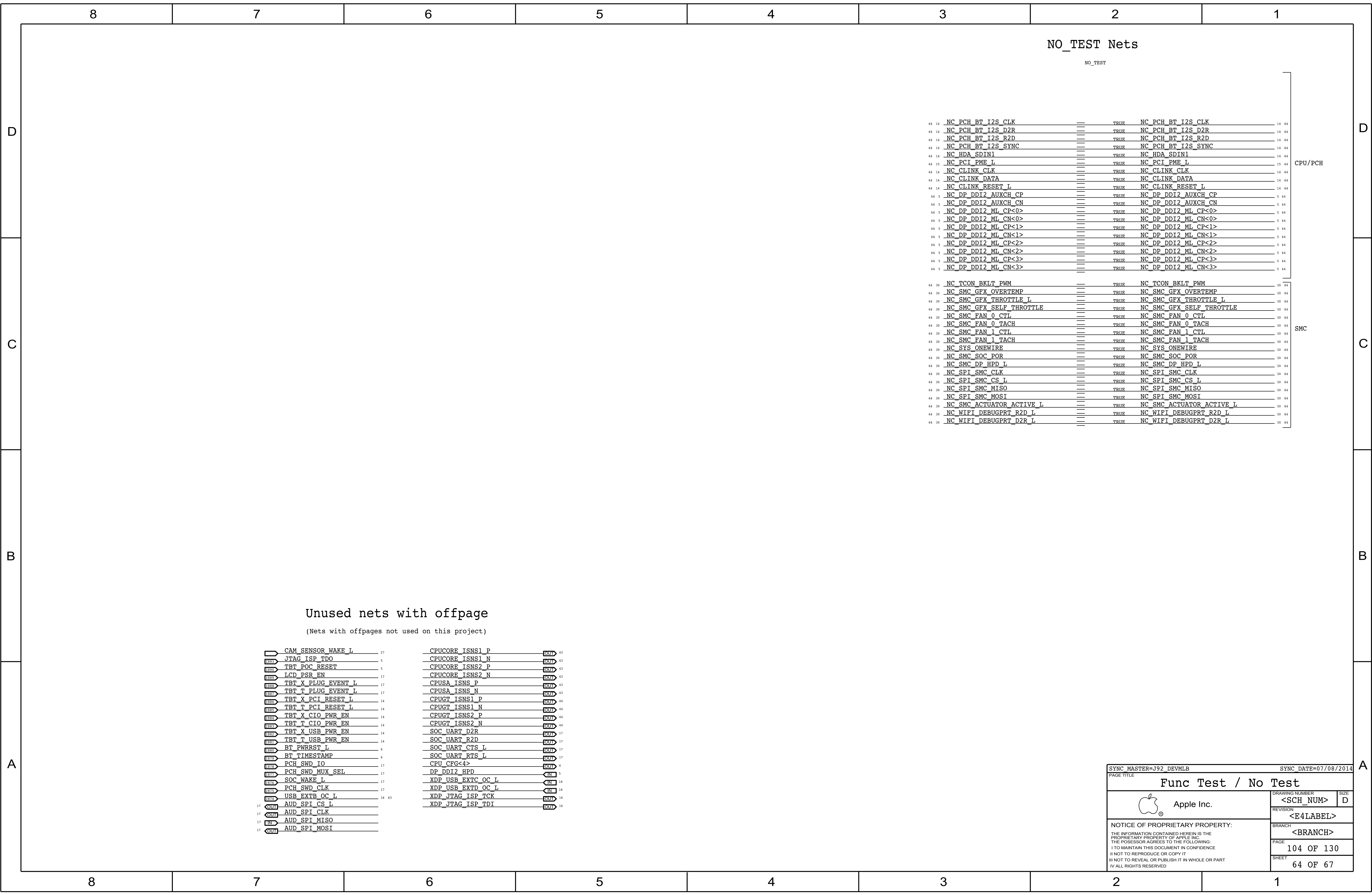






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8

7

6

5

4

3

2

1

Func Test / No Test

SYNC_MASTER=J92_DEVMLB

SYNC_DATE=07/08/2014

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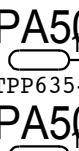
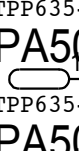
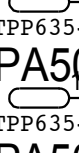
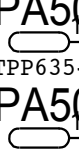
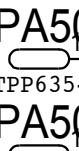
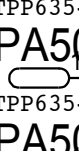
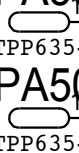
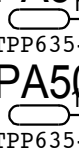
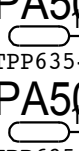
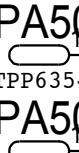
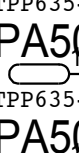
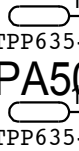
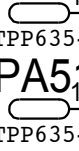
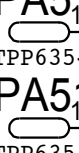
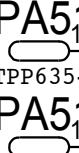
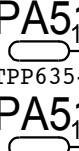
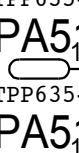
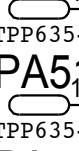
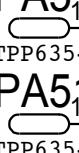
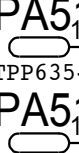
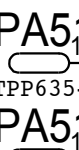
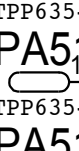
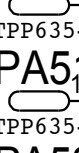
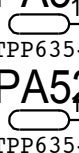
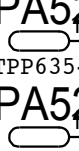
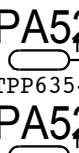
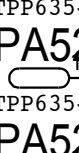
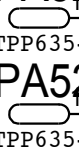
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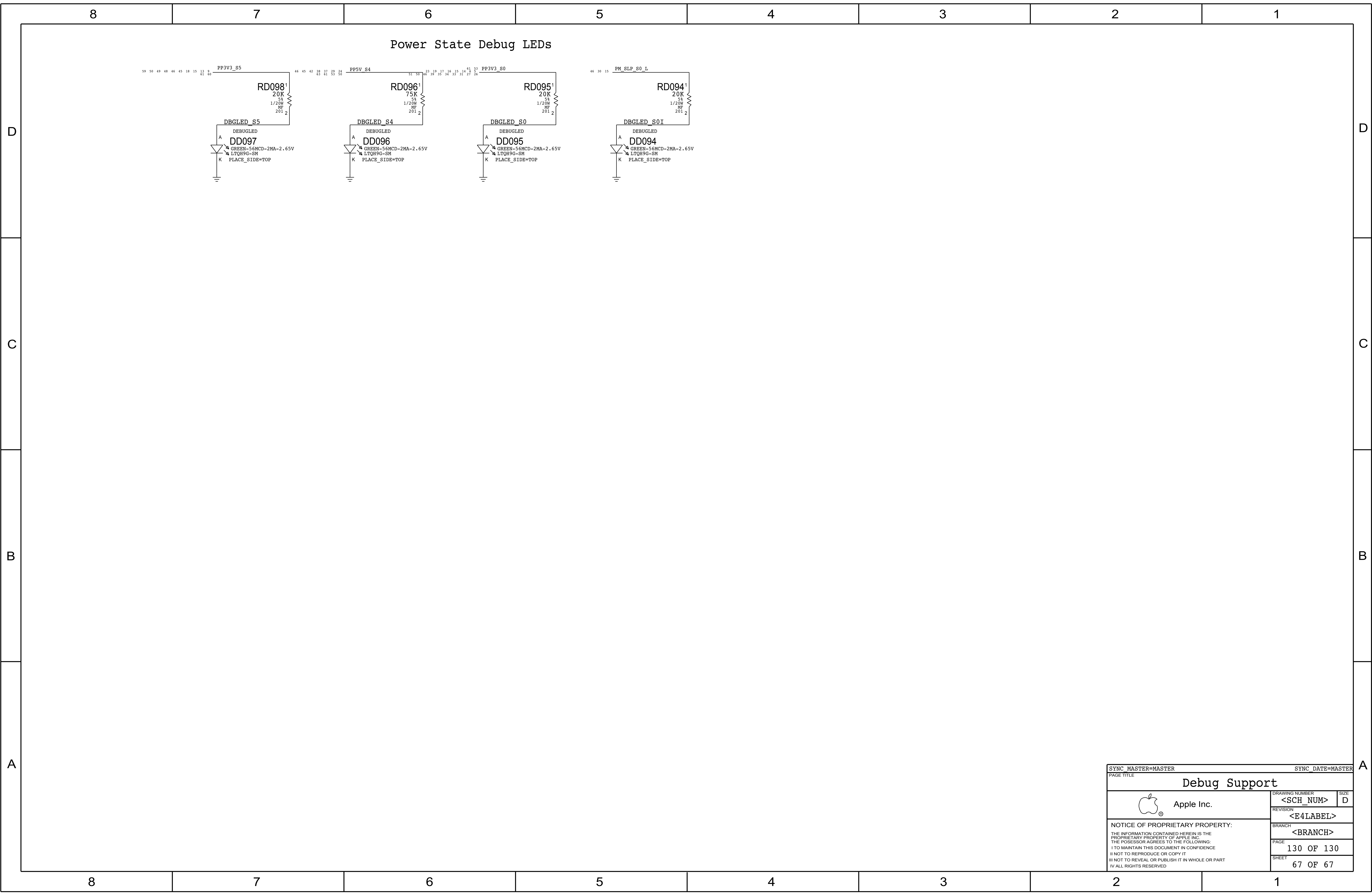
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EE Chaz Probe Points																						
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	PPA505		SMC_CHGR_INT_L	30	41	PPA578		USB3_EXT_A_D2R_P	16	60												
	PPA506		MEM_A_CAA<0>	7	21	PPA579		CPU_CATERR_L	6	30												
	PPA507		MEM_A_CLK_P<0>	7	21	PPA581		MEM_B_CS_L<1>	7	22												
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	PPA509		MEM_A_CS_L<0>	7	21	PPA583		MEM_B_CAB<1>	7	22												
	PPA510		MEM_B_DQ<12>	7	22 62	PPA584		MEM_B_CAA<2>	7	22												
	PPA511		MEM_A_DQS_P<1>	7	21 62	PPA587		MEM_B_CAA<3>	7	22												
	PPA512		MEM_A_DQS_N<1>	7	21 62	PPA594		XDP_USB_EXT_A_OC_L	16	23 24 63												
	PPA513		AP_DEV_WAKE	14	25	PPA596		USB_EXT_A_P	16	23												
C	PPA514		AP_S0IX_WAKE_L	17	18	PPA597		USB_EXT_A_N	16	23	NO_TEST Nets					C						
	PPA515		AP_S0IX_WAKE_SEL	17	18	PPA598		PM_DSW_PWRGD	15	30												
	PPA517		MIPI_CLK_P	27	28	PPA500		AP_CLKREQ_L	16	25												
	PPA518		MIPI_DATA_P	27	28	PPA501		AP_RESET_L	14	25												
	PPA519		PCH_BT_UART_D2R	17	26	PPA502		CAMERA_CLKREQ_L	16	27												
	PPA520		PCH_BT_UART_RTS_L	17	26	PPA503		CAMERA_RESET_L	14	27												
	PPA522		PCIE_CAMERA_D2R_P	16	28	PPA521		CHGR_BOOST_DH	41													
	PPA523		PCIE_CLK100M_SSD_P	16	54 63	PPA586		CHGR_BOOST_DL	41													
	PPA529		AUD_PWR_EN	17	39	PPA524		CHGR_BUCK_DH	41													
	PPA530		BT_UART_RTS_L	25	26	PPA525		CHGR_BUCK_DL	41													
B	PPA531		CAMERA_PWR_EN	14	27	PPA526		CPUCORE_FCCM	42	43	CPU/PCH					B						
	PPA533		EDP_BKLT_PWM	5	53	PPA527		CPUGT_FCCM	42	44												
	PPA534		HDA_SDIN0	14	39	PPA528		CPUSA_FCCM	42	43												
	PPA537		LCD_IRQ_L	17	53	PPA532		CPUCORE_PWM1	42	43												
	PPA538		MEM_CAM_A<8>	27	28	PPA535		CPUCORE_PWM2	42	43												
	PPA539		MEM_CAM_CS_L	27	28	PPA536		CPUGT_PWM1	42	44												
	PPA543		MIPI_CLK_N	27	28	PPA540		CPUGT_PWM2	42	44												
	PPA544		MIPI_DATA_N	27	28	PPA541		CPUSA_PWM	42	43												
	PPA545		PCH_BT_UART_CTS_L	17	26	PPA542		P1V2_DRVH	47													
	PPA546		PCH_BT_UART_R2D	17	26	PPA547		P1V2_DRVL	47													
A	PPA548		PCIE_CAMERA_D2R_N	16	28	PPA589		PVCCIO_DRVH	47		Apple Inc.					A						
	PPA549		PCIE_CLK100M_SSD_N	16	54 63	PPA588		PVCCIO_DRVL	47													
	PPA551		PCIE_SSD_D2R_N<0>	16	63	PPA550		P1VSUS_DRVH	48													
	PPA552		PCIE_SSD_D2R_P<0>	16	63	PPA590		P1VSUS_DRVL	48													
	PPA560		SMC_BT_PWR_EN	25	30	PPA553		LPC_SERIRQ	14	30												
	PPA562		SMC_OOB1_R2D_L	30	59	PPA554		SMC_CLK32K	30	31												
	PPA563		SMC_PROCHOT	30	31	PPA555		SYSCLK_CLK32K_PCH	16	18												
	PPA564		SMC_SENSOR_PWR_EN	30	32 34	PPA556		SYSCLK_CLK32K_CAMERA_BT_AP	18 25													
	PPA565		SMC_WAKE_SCI_L	15	30	PPA557		SYSCLK_CLK24M_PCH	16 18 63													
	PPA566		SMC_WIFI_PWR_EN	25	30	PPA558		TPAD_SPI_IF_EN	17 29													
A	PPA567		AP_PCIE_WAKE_L	18 25		PPA559		CPUCORE_GL1	43		Project FCT/NC/Aliases					A						
	PPA569		SSD_SR_EN_L	15 59		PPA561		CPUCORE_GL2	43													
	PPA570		SYSCLK_CLK12M_SMC	18 30		PPA568		CPUGT_GL1	44													
	PPA571		SYSCLK_CLK24M_SSD	18 54		PPA573		CPUGT_GL2	44													
	PPA572		SYSCLK_CLK24M_CAMERA	18 27 65		PPA574		SMC_BC_ACOK	30 31 34 41 63													
	PPA575		TPAD_SPI_CS_L	17 29		PPA580		P2V7NAND_DRVL	57													
	PPA576		TPAD_SPI_INT_L	17 29		PPA585		P1V8SUS_PGOOD	46 48													
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SSD & WiFi Chamber Test Points

TPA500		PPDCIN_G3H	24	34 41 61 65
SM-TTP635-TOP				
TPA501		PPDCIN_G3H	24	34 41 61 65
SM-TTP635-TOP				
TPA502		PPDCIN_G3H	24	34 41 61 65
SM-TTP635-TOP				
TPA503		PPDCIN_G3H	24	34 41 61 65
SM-TTP635-TOP				
TPA504		GND		
SM-TTP635-TOP				
TPA505		GND		
SM-TTP635-TOP				
TPA506		SMC_ONOFF_L	29	30 31 32
SM-TTP635-TOP				
TPA507		SSD_BOOT_L	17	54
SM-TTP635-TOP				
TPA508		SMC_DEV_SUPPLY_L	30	
SM-TTP635-TOP				
TPA509		GND		
SM-TTP635-TOP				
TPA510		SMC_DEBUGPRT_TX_L	30	31 65
SM-TTP635-TOP				
TPA511		SMC_DEBUGPRT_RX_L	30	31 65
SM-TTP635-TOP				
TPA512		SSD_UART_R2D	17	63
SM-TTP635-TOP				
TPA513		SSD_UART_D2R	17	63
SM-TTP635-TOP				
TPA514		PCIE_TEST_D2R_P	==	PCIE_TEST_D2R_P 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA515		PCIE_TEST_D2R_N	==	PCIE_TEST_D2R_N 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA516		PCIE_TEST_R2D_P	==	PCIE_TEST_R2D_P 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA517		PCIE_TEST_R2D_N	==	PCIE_TEST_R2D_N 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA518		PCIE_CLK100M_TEST_P	==	PCIE_CLK100M_TEST_P 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA519		PCIE_CLK100M_TEST_N	==	PCIE_CLK100M_TEST_N 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA520		TEST_CLKREQ_L	==	TEST_CLKREQ_L 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA521		PLT_RST_L	5	14 15 19 26 30
SM-TTP635-TOP				
TPA522		USB_TEST_P	==	USB_TEST_P 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA523		USB_TEST_N	==	USB_TEST_N 16 65
SM-TTP635-TOP		MAKE_BASE=TRUE		
TPA524		GND		
SM-TTP635-TOP				
TPA525		GND		
SM-TTP635-TOP				
TPA526		POWER_GATE_EN	23	24 41
SM-TTP635-TOP				
TPA527		PP3V3R3V0_AON	23	41 61
SM-TTP635-TOP				
TPA528		HIPWR_EN	23	41
SM-TTP635-TOP				
TPA529		PM_SLP_S3_L	15	30 46 49 50 51
SM-TTP635-TOP				

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