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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.

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MLB B - PVT

LAST_MODIFIED=Mon Sep 29 18:09:18 2014

RADIO_MLB SYNC VER 0.109.0
WIFI_DEV SYNC VER 0.68.0
ROTTERDAM SYNC VER 0.11.0

PDF	CSA	CONTENTS	SYNC MASTER	DATE
1	1	TABLE OF CONTENTS	N/A	N/A
2	2	BLOCK DIAGRAM: SYSTEM	N/A	N/A
3	4	BOM TABLES	N/A	N/A
4	5	SOC: MISC & ALIASES	N/A	N/A
5	6	SOC: MAIN	N/A	N/A
6	7	SOC: I/OS	N/A	N/A
7	8	SOC: NAND	N/A	N/A
8	9	SOC: MIPI, ISP	N/A	N/A
9	10	SOC: EDP, PCIE	N/A	N/A
10	11	SOC: DDR	N/A	N/A
11	12	SOC: IO POWER	N/A	N/A
12	13	SOC: SOC POWER AND GND	N/A	N/A
13	14	SOC: CPU, GPU, SRAM POWER	N/A	N/A
14	16	DDR: CHANNEL 0 AND 1	N/A	N/A
15	17	DDR: CHANNEL 2 AND 3	N/A	N/A
16	18	NAND	N/A	N/A
17	20	SENSOR: OSCAR	N/A	N/A
18	21	SENSOR: CARBON, PHOS+, MAGN	N/A	N/A
19	22	SENSOR: HALL EFFECT	N/A	N/A
20	27	CAMERA: CAM CONNS	N/A	N/A
21	28	CAMERA: CAM SUPPORT	N/A	N/A
22	30	AUDIO: L81 CODEC	N/A	N/A
23	31	AUDIO: HP/DMIC FLEX CONNS	N/A	N/A
24	32	AUDIO: SPEAKER AMPS	N/A	N/A
25	35	IO: TRISTAR	N/A	N/A


PDF	CSA	CONTENTS	SYNC MASTER	DATE
26	36	IO: FILTERS	N/A	N/A
27	37	IO: HOTBAR PADS	N/C	N/A
28	39	IO: BUTTON FLEX CONN	N/A	N/A
29	40	GRAPE: STINGER & CONN	N/A	N/A
30	41	GRAPE: CUMULUS	N/A	N/A
31	45	DISPLAY: CONNECTOR	N/A	N/A
32	46	DISPLAY: EDP SUPPORT	N/A	N/A
33	47	MESA: SUPPORT	N/A	N/A
34	48	ROTTERDAM	ROTTERDAM	05/13/2014
35	50	CELL: PROBE PTS & DEBUG CONN	RADIO	09/29/2014
36	51	CELL: BB PMU (1/2)	RADIO	09/29/2014
37	52	CELL: BB PMU (2/2)	RADIO	09/29/2014
38	53	CELL: BASEBAND (1/2)	RADIO	09/29/2014
39	54	CELL: BASEBAND (2/2)	RADIO	09/29/2014
40	55	CELL: BASEBAND (3/3)	RADIO	09/29/2014
41	56	CELL: RF TXCVR (1/3)	RADIO	09/29/2014
42	57	CELL: RF TXCVR (2/3)	RADIO	09/29/2014
43	58	CELL: RF TXCVR (3/3)	RADIO	09/29/2014
44	59	CELL: QFE DCDC	RADIO	09/29/2014
45	60	CELL: 2G PA	RADIO	09/29/2014
46	61	CELL: VLB PAD	RADIO	09/29/2014
47	62	CELL: LB PAD	RADIO	09/29/2014
48	63	CELL: MB PAD	RADIO	09/29/2014
49	64	CELL: HB PAD	RADIO	09/29/2014
50	65	CELL: ANTENNA SWITCH	RADIO	09/29/2014

PDF	CSA	CONTENTS	SYNC MASTER	DATE
51	66	CELL: HB SWITCH	RADIO	09/29/2014
52	67	CELL: RX DIV (1/2)	RADIO	09/29/2014
53	68	CELL: RX DIV (2/2)	RADIO	09/29/2014
54	69	CELL: GPS	RADIO	09/29/2014
55	70	CELL: ANT FEEDS & GPS (J82)	RADIO	09/29/2014
56	74	WIFI/BT: J82 ANT INTERFACE	WIFI	09/29/2014
57	75	WIFI/BT: WIFI/BT MODULE	WIFI	09/29/2014
58	78	SENSOR: HAMMERHEAD	N/A	N/A
59	79	CELL: SIM AND ANT SW FILT	N/A	N/A
60	81	PMU: ARABELA (1/3)	N/A	N/A
61	82	PMU: ARABELA (2/3)	N/A	N/A
62	83	PMU: ARABELA (3/3)	N/A	N/A
63	84	POWER: J82 SPECIFIC	N/A	N/A
64	86	POWER: EXTERNAL SWITCHES	N/A	N/A
65	88	PMU: CHARGER BUCK	N/A	N/A
66	89	POWER: BATTERY CONN	N/A	N/A
67	90	SOC: DEBUG	N/A	N/A
68	91	ALIASES: BB/WLAN/BT	N/A	N/A
69	93	TEST: TPS/HOLES/FIDUCUALS	N/A	N/A
70	95	TEST: EE TP/PP	N/A	N/A
71	96	TEST: CELL EE TP/PP	N/A	N/A
72	121	POWER: ALIASES	N/A	N/A
73	155	BB/WLAN VOLTAGE ATTRIBUTES	N/A	N/A

DRAWING

SCH AND BOARD P/N

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-0301	1	SCH,MLB-B,J82	SCH1	CRITICAL	
050-362	1	BBF,MLB-B,J82	BBF1	CRITICAL	

DRAWING TITLE		
SCHEM,MLB-B,X190		
 Apple Inc.	DRAWING NUMBER	051-0301
	SIZE	D
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	BRANCH	
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Page Notes

Power aliases required by this page: (NONE)
Signal aliases required by this page: (NONE)
BOM options provided by this page:

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343S00016	1	IC,CAPRI,A1,PROD,ASE	U0600	CRITICAL	
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
343S00021	343S00016		U0600	IC,CAPRI,A1,PROD,SCK	

PMU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
343S0675	1	IC,PMU,ARABELA,D2207A0,TOP-AC,FCBGA380	U8100	CRITICAL	

SDRAM

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
333S0803	2	IC,CAPRI,DRAM,10X10MM,FBGA261	U1600,U1700	CRITICAL	
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
333S0804	333S0803		U1600,U1700	ELPIDA DRAM	
333S00014	333S0803		U1600,U1700	SAMSUNG DRAM	

NAND

16GB FLASH CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0972	1	TOSHIBA 16GB MLC 1YNM PPN1.5	U1800	CRITICAL	16GB_PROD
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
335S1035	335S0972	16GB_PROD	U1800	HYNIX 16GB MLC 1YNM PPN1.5	

64GB FLASH CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00011	1	SANDISK 64GB TLC 1YNM PPN1.5	U1800	CRITICAL	64GB_PROD
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
335S00017	335S00011	64GB_PROD	U1800	TOSHIBA 64GB TLC 1YNM PPN	

128GB FLASH CONFIGURATIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00012	1	SANDISK 128GB TLC 1YNM PPN1.5	U1800	CRITICAL	128GB_PROD
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
335S00018	335S00012	128GB_PROD	U1800	TOSHIBA 128GB TLC 1YNM PPN	

MECHANICAL PARTS


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
806-7118	1	RADIO FENCE X190	PD_FENCE_RADIO	CRITICAL	MLB_B
806-00001	1	AP FENCE X190	PD_FENCE_AP	CRITICAL	
806-6353	1	GRAPE FENCE X190	PD_FENCE_GRAPE	CRITICAL	

BARCODE LABEL/EEEE CODES

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-00067	1	EEEE FOR 639-5813 (MLB A 16GB)	EEEE_FQJ3	CRITICAL	EEEE_MLB_A_16GB
825-00067	1	EEEE FOR 639-5814 (MLB A 32GB)	EEEE_FQJ0	CRITICAL	EEEE_MLB_A_32GB
825-00067	1	EEEE FOR 639-5815 (MLB A 64GB)	EEEE_FQJ1	CRITICAL	EEEE_MLB_A_64GB
825-00067	1	EEEE FOR 639-5816 (MLB A 128GB)	EEEE_FQJ2	CRITICAL	EEEE_MLB_A_128GB
825-00067	1	EEEE FOR 639-4747 (MLB B 16GB)	EEEE_FH54	CRITICAL	EEEE_MLB_B_16GB
825-00067	1	EEEE FOR 639-5809 (MLB B 32GB)	EEEE_FQHY	CRITICAL	EEEE_MLB_B_32GB
825-00067	1	EEEE FOR 639-5810 (MLB B 64GB)	EEEE_FQHW	CRITICAL	EEEE_MLB_B_64GB
825-00067	1	EEEE FOR 639-5811 (MLB B 128GB)	EEEE_FQHV	CRITICAL	EEEE_MLB_B_128GB

CKPLUS WAIVE TABLE

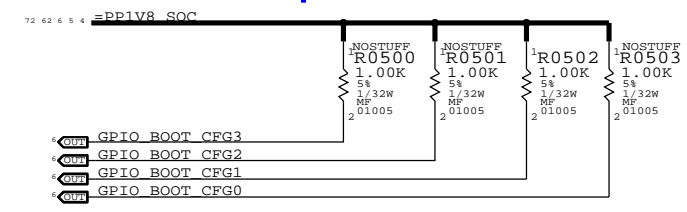
CKPLUS RULE EXCEPTIONS	REQUIRED
SCHEMATIC DEFINED CONSTRAINTS (YES/NO)	NO

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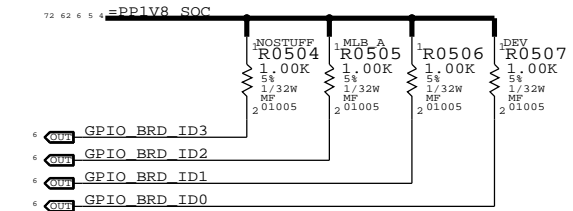
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BOOT CONFIG ID



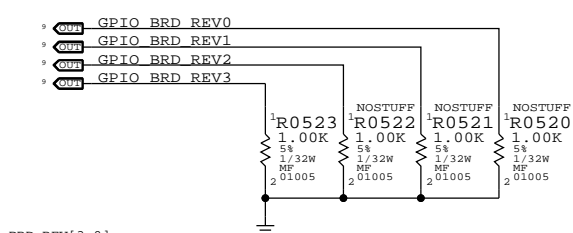
BOOT_CFG[3:0]	MODE	S/W READ FLOW
0000	SPI	1. SET GPIO AS INPUT
0001	SPI W/TEST	2. DISABLE PU AND ENABLE PD
0010	NAND	3. READ
0011	NAND W/TEST	

BOARD ID

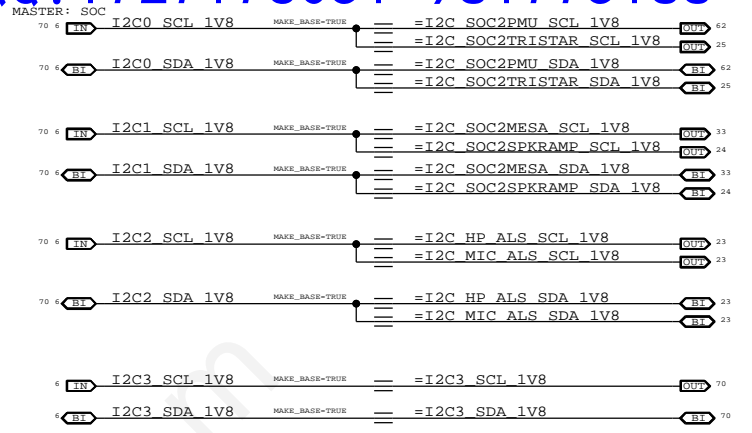
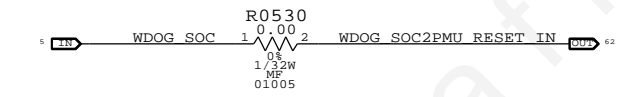
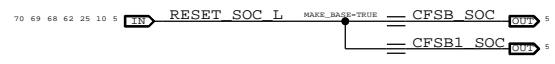
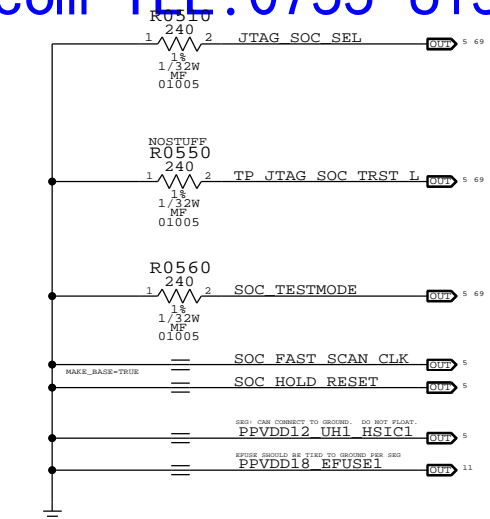


BRD_ID[3-0]	S/W READ FLOW
0000	RESERVED
0001	RESERVED
0010	MLB_B AP
0011	MLB_B DEV
0100	RESERVED
0101	RESERVED
0110	MLB_A AP
0111	MLB_A DEV
1000	UNUSED
1001	UNUSED
1010	UNUSED
1011	UNUSED
1100	RESERVED
1101	RESERVED

BOARD REVISION



BRD_REV[3-0]	S/W READ FLOW
0000	RESERVED
0001	RESERVED
0010	PROTO 1 (BRING UP)
0011	PROTO 1 (LOCAL/CHINA)
0100	PROTO 2
0101	PRE-EVT
0110	EVT
0111	DVT & PVT
1000	UNUSED



TO:
ARABELA ADDR: 0B0111100X
TRISTAR ADDR: 0B0011010X

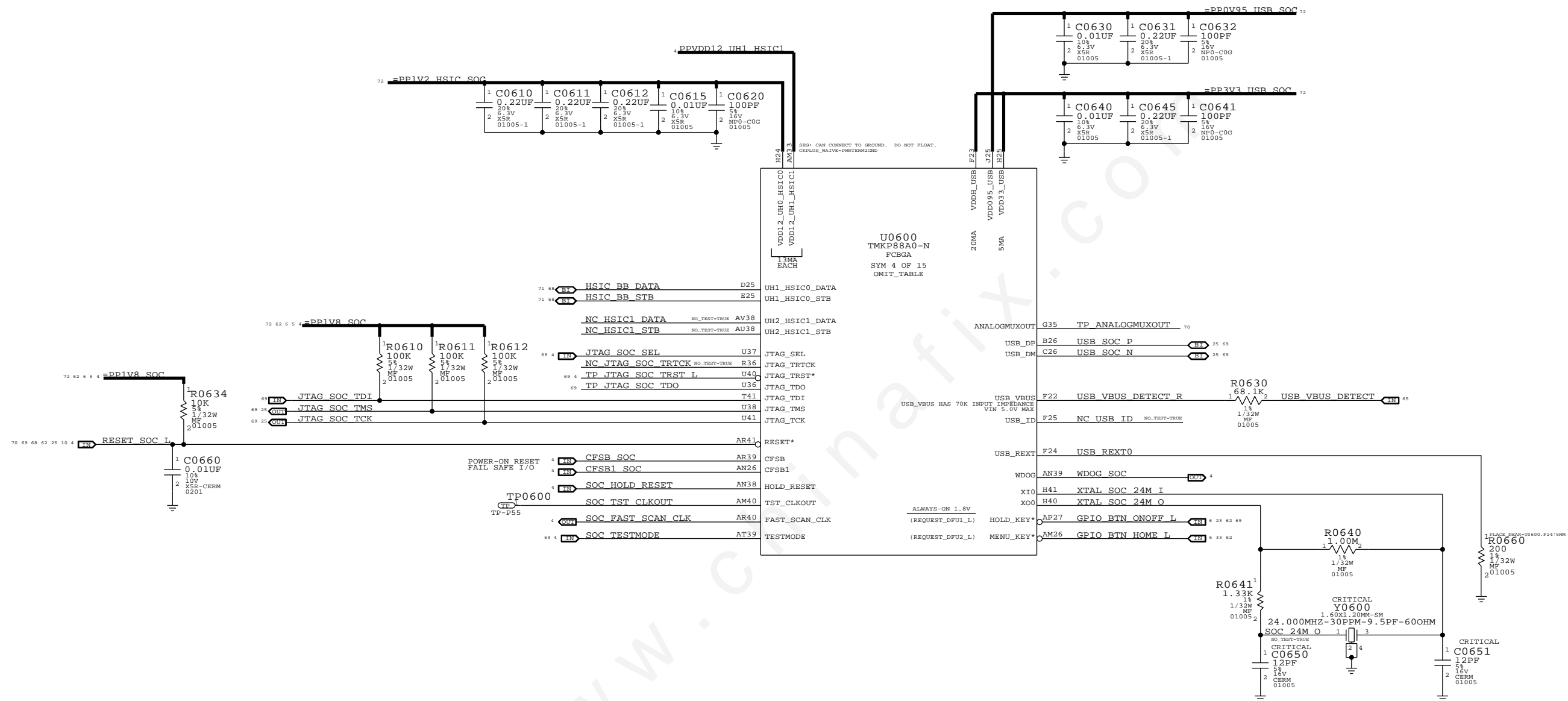
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MESA EEPROM (MEM) ADDR: 0B1010000X
MESA EEPROM (ID) ADDR: 0B1011000X
SPEAKER AMP LEFT ADDR: 0B0110001X
SPEAKER AMP RIGHT ADDR: 0B0110101X

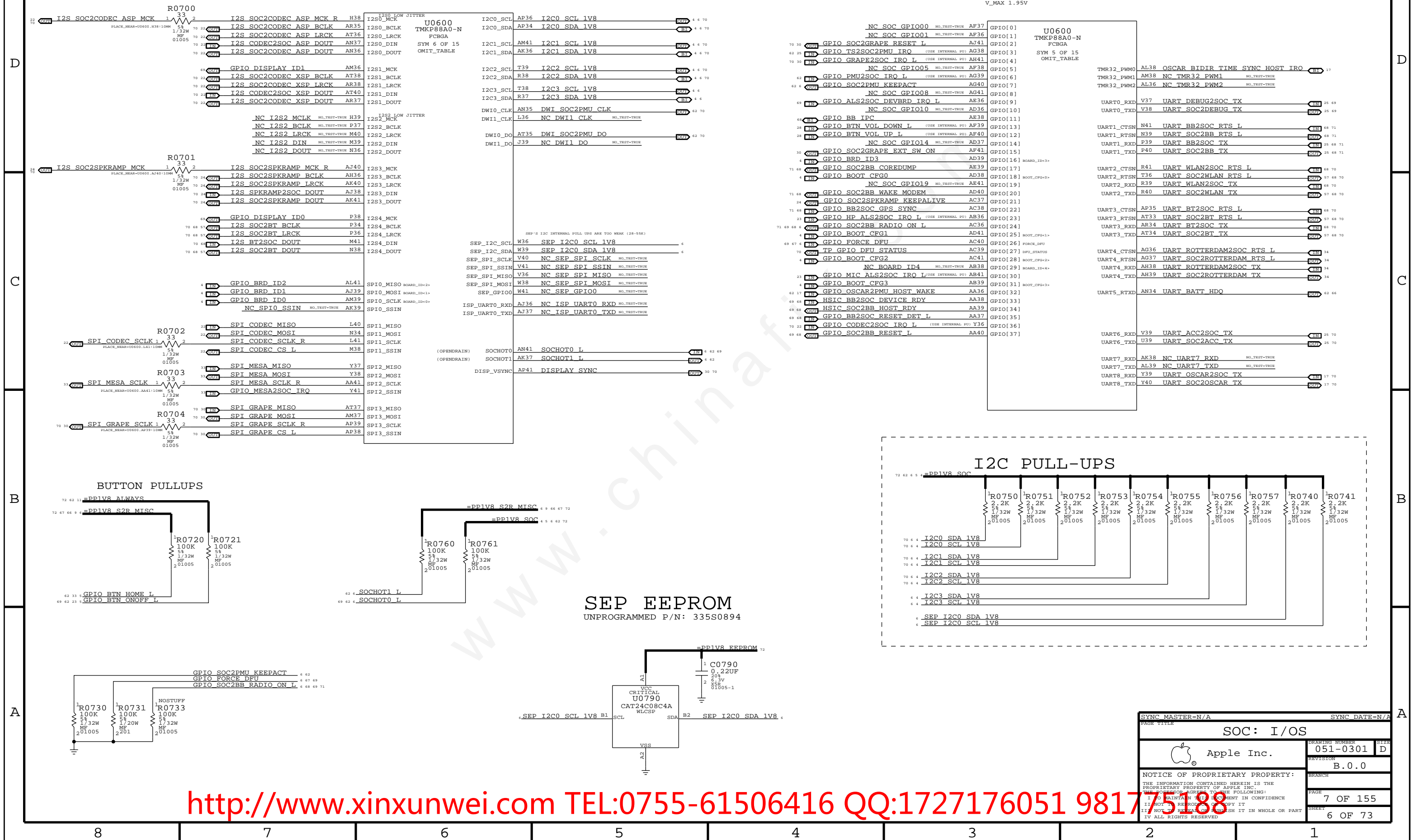
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ALS(MIC) ADDR: 0B0101001X
ALS(HF) ADDR: 0B1001001X

TO:
PROBE POINTS

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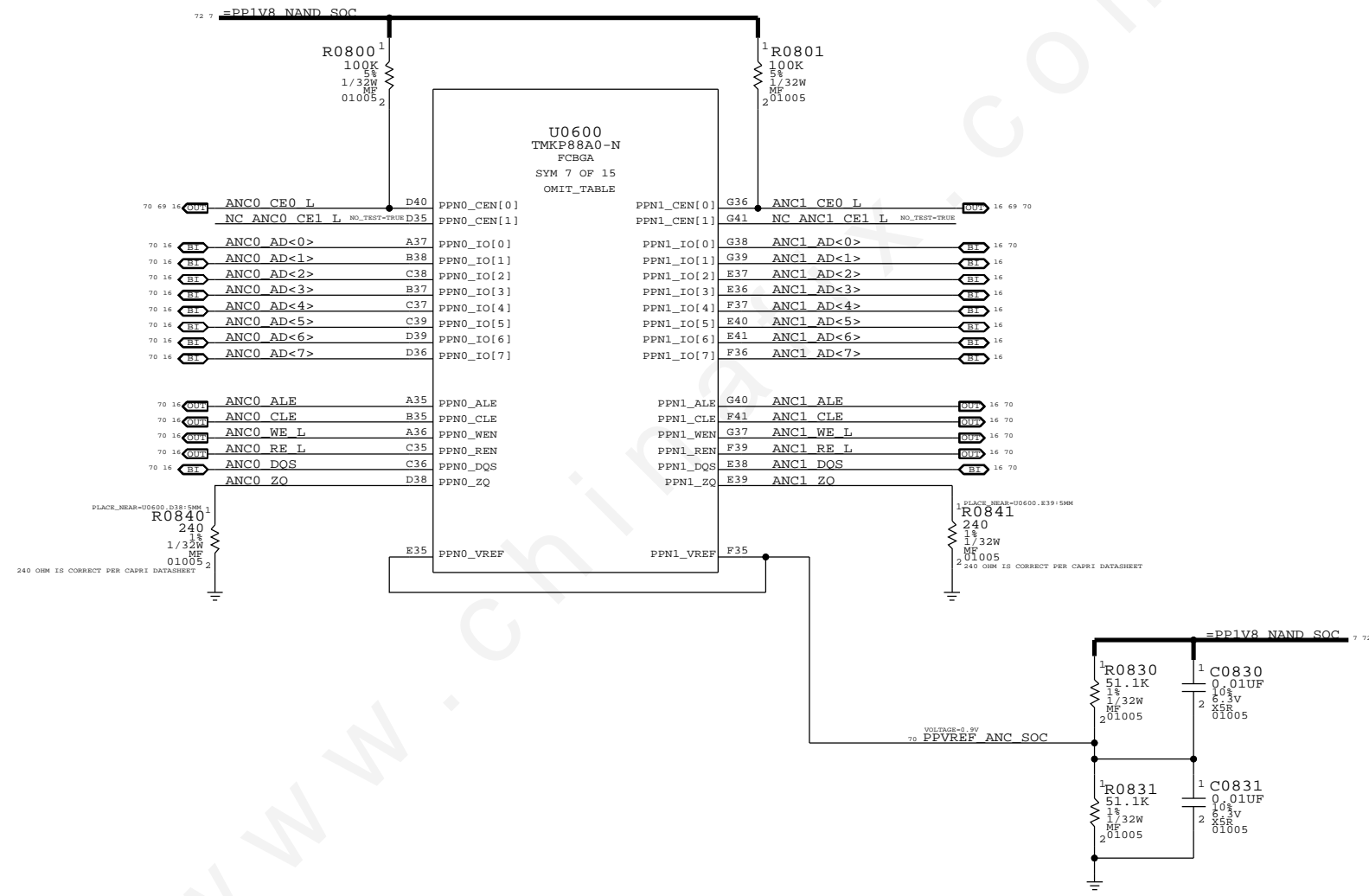
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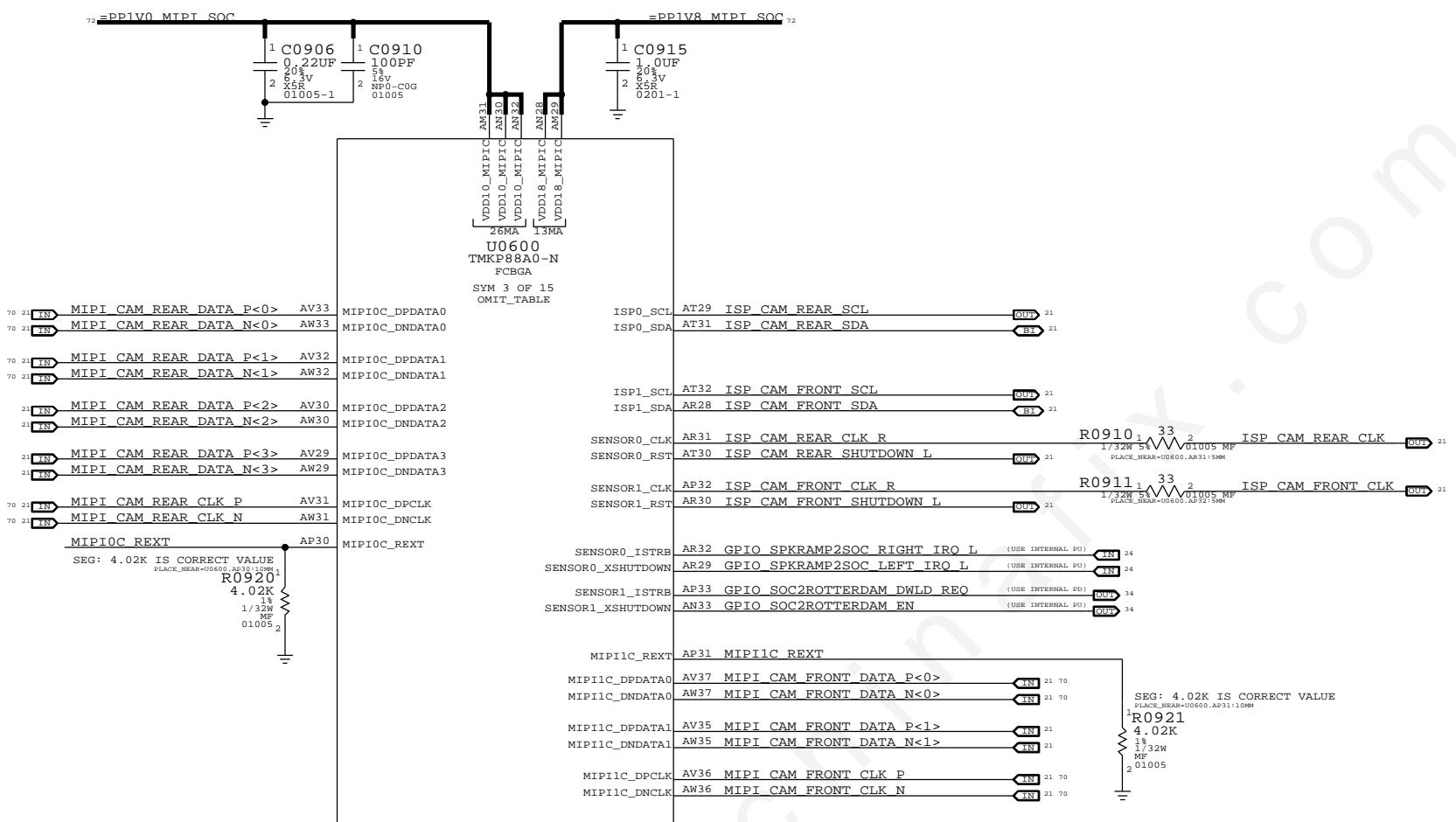


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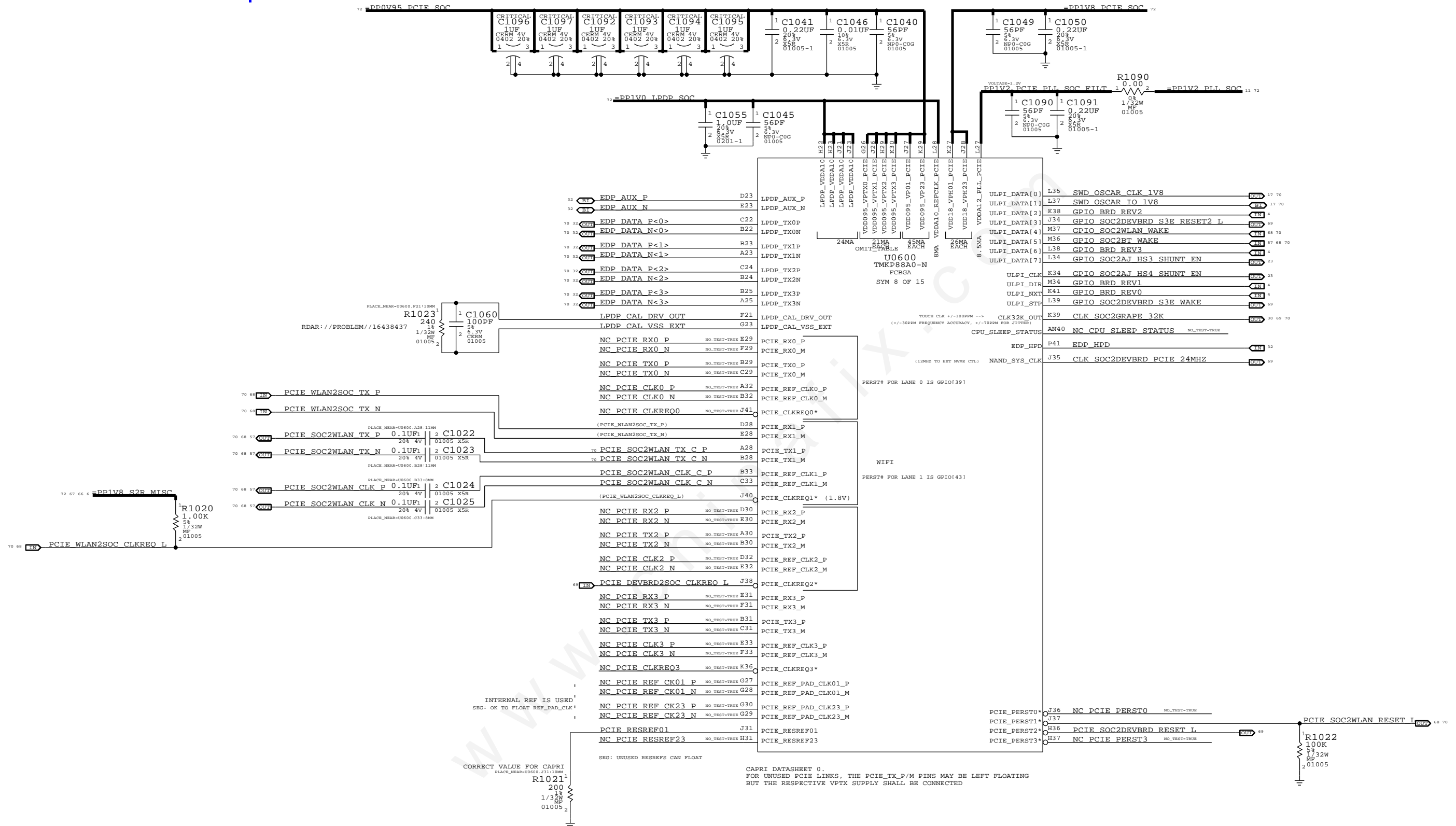


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PAGE TITLE		PAGE TITLE	
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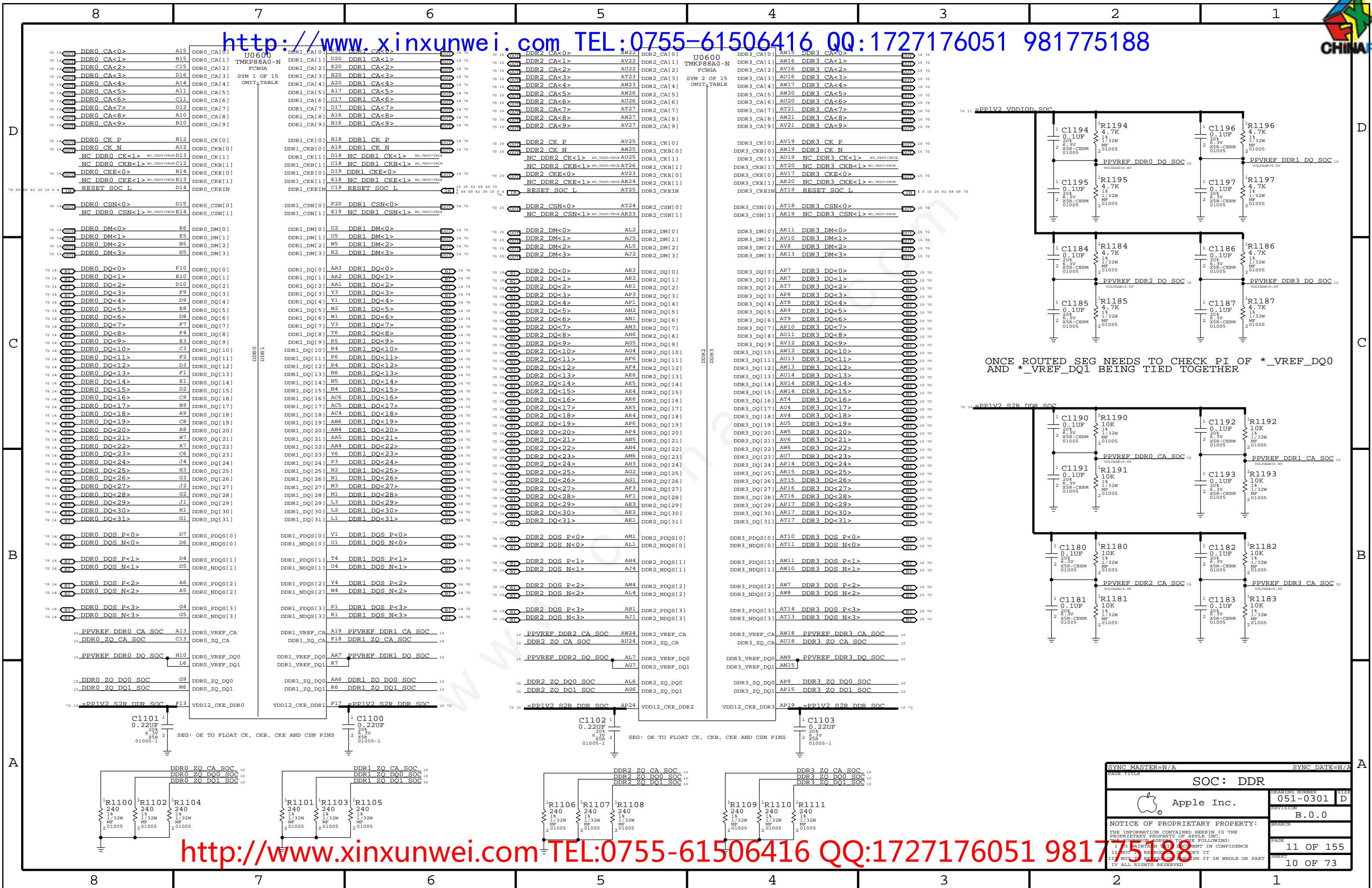
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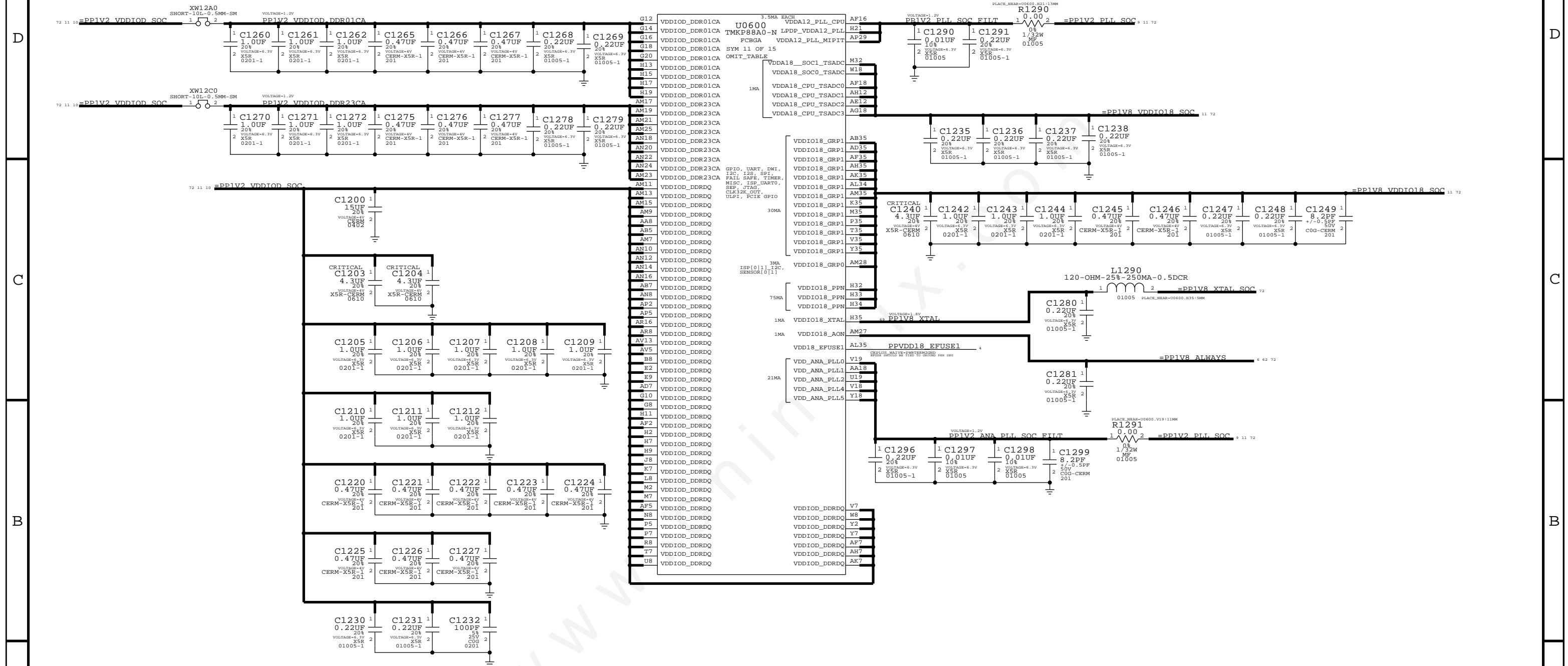
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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0702	138S0657			QTY 22 EDAR:///PROBLEM/8837828
138S0702	138S0657			QTY 22 EDAR:///PROBLEM/8837828

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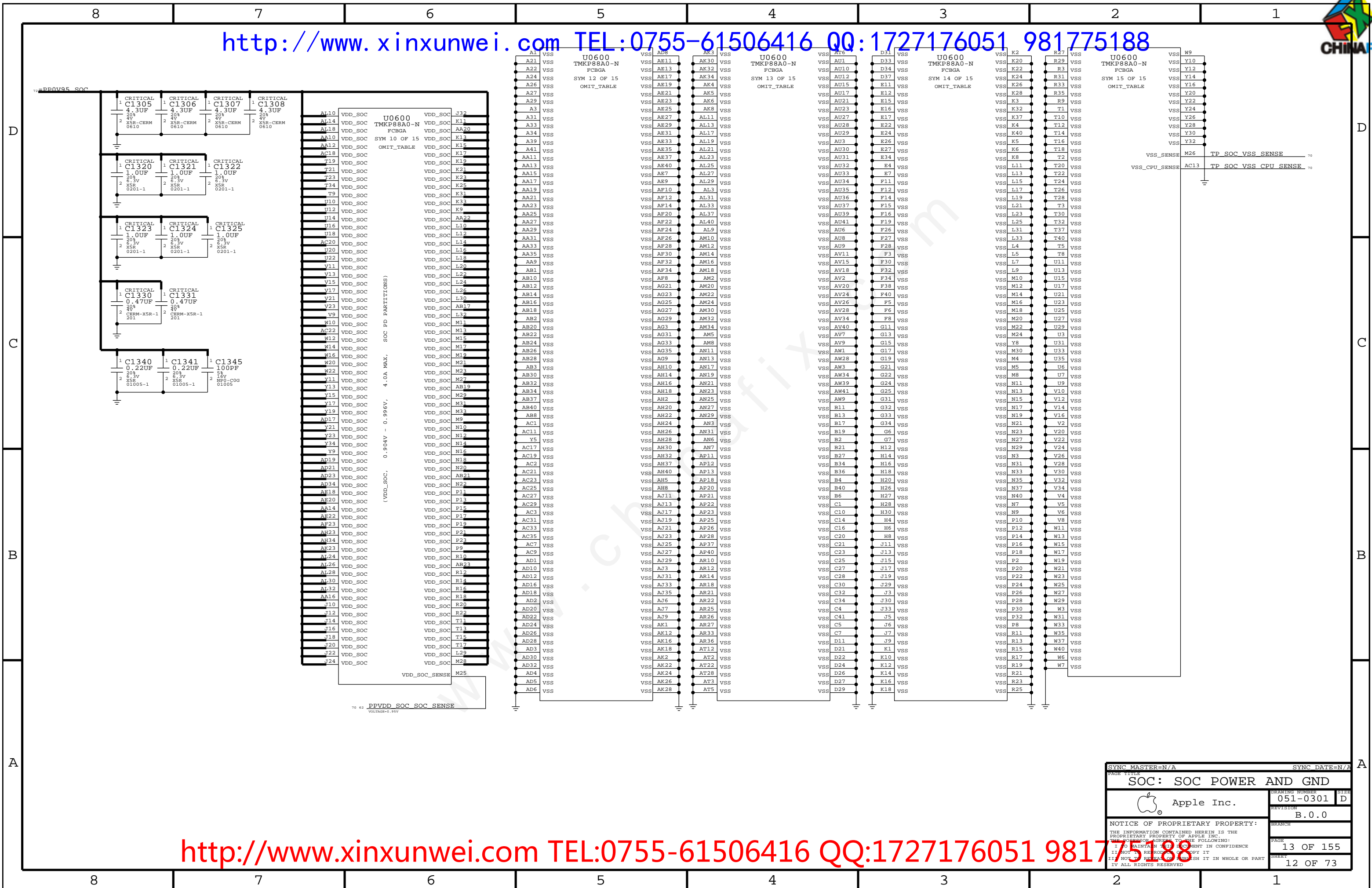
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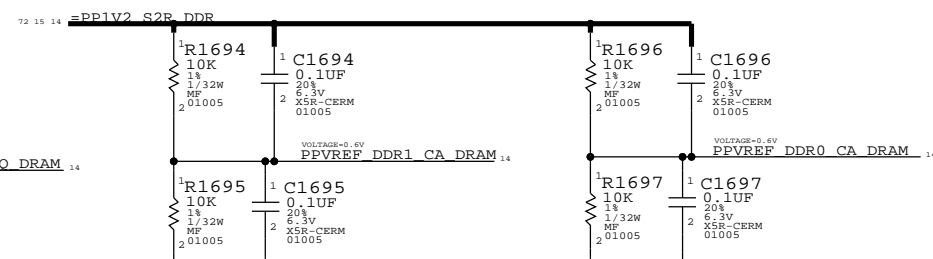
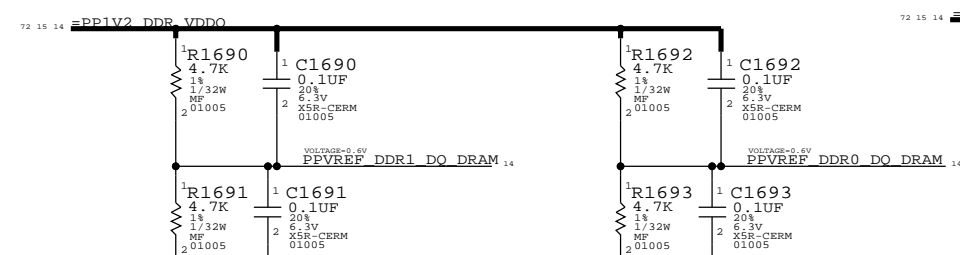
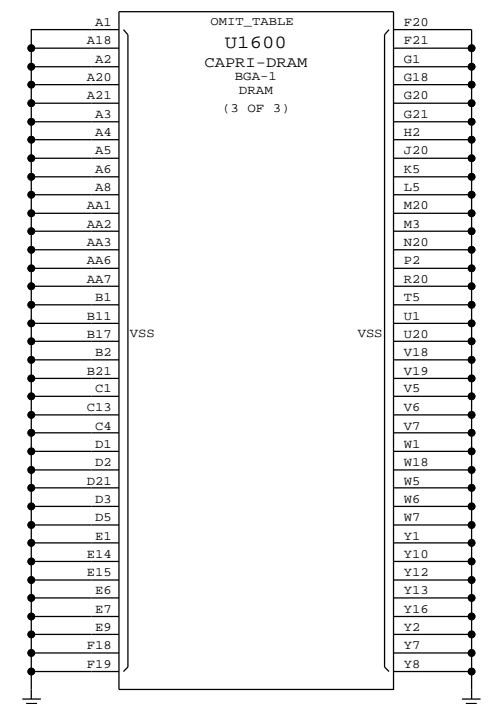
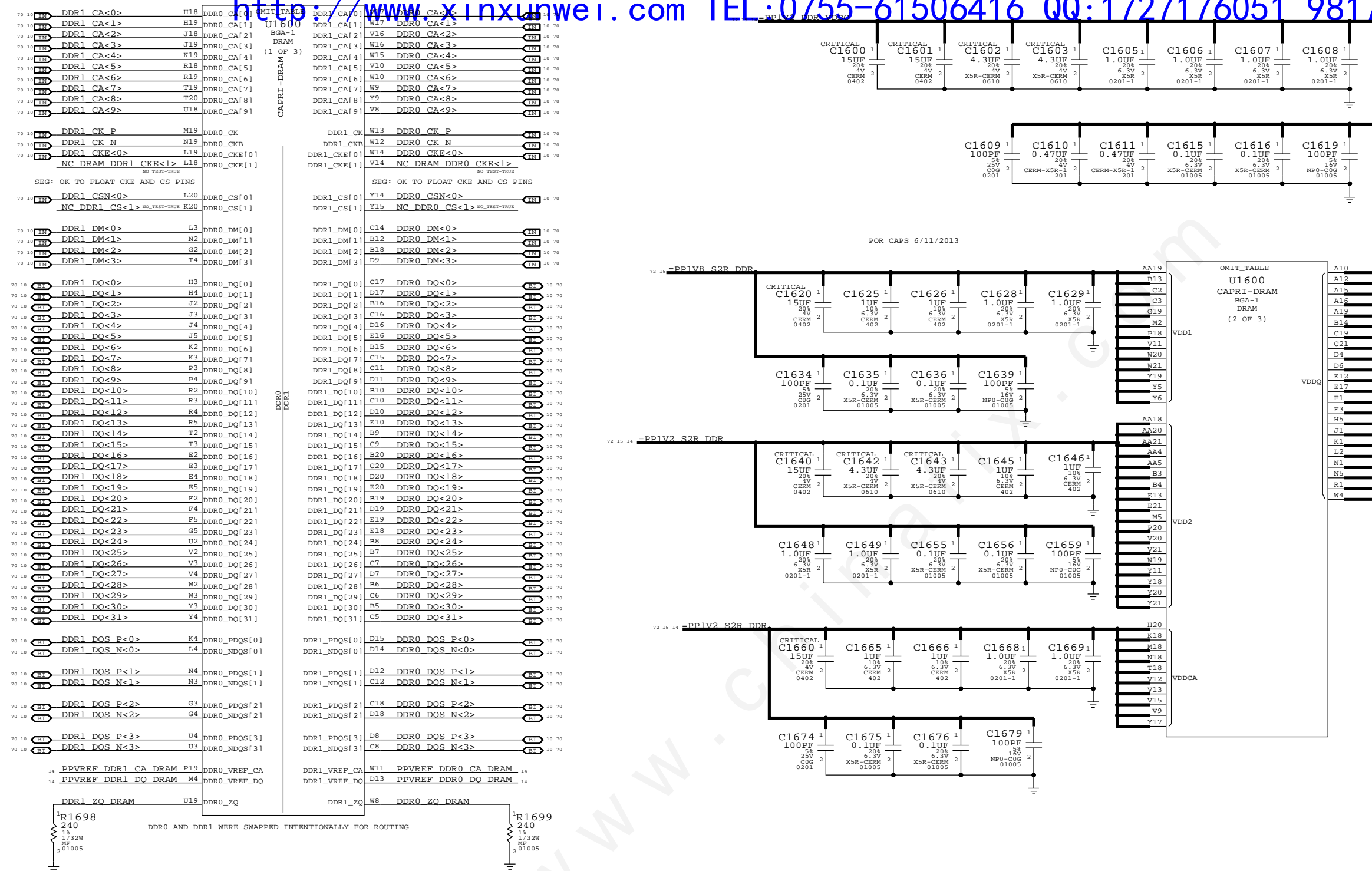
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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
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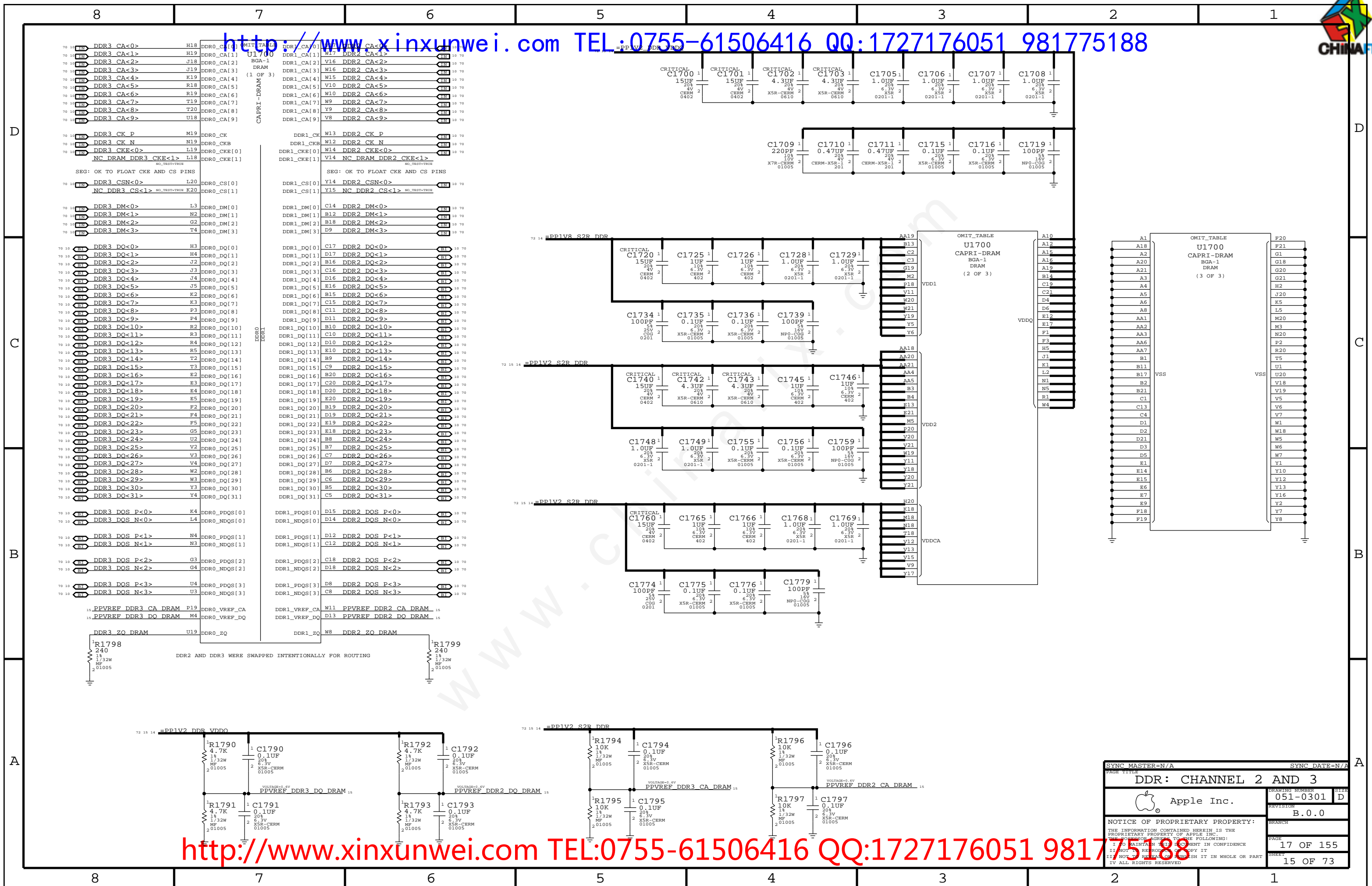
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PAGE TITLE			
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		14	OF 73

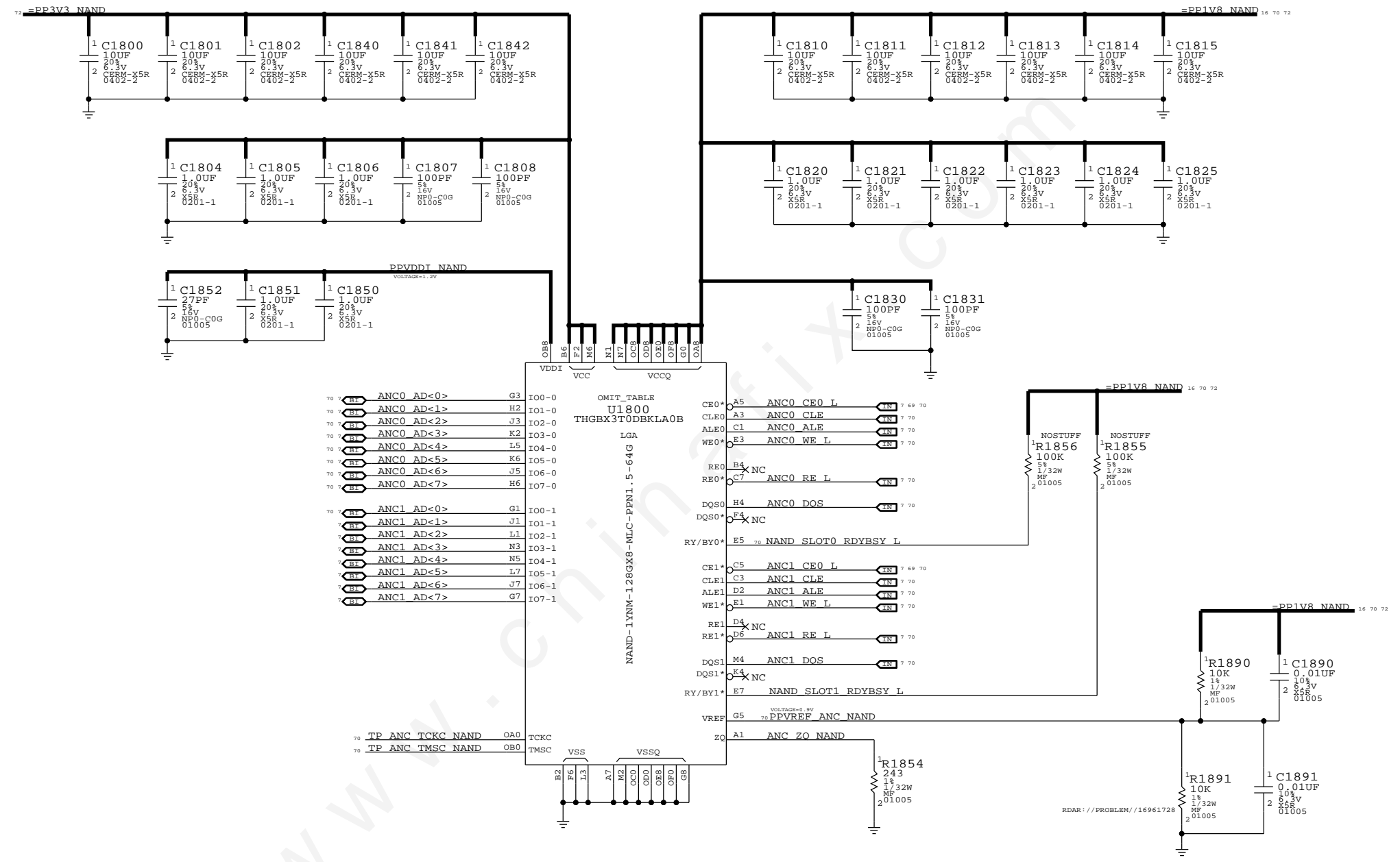



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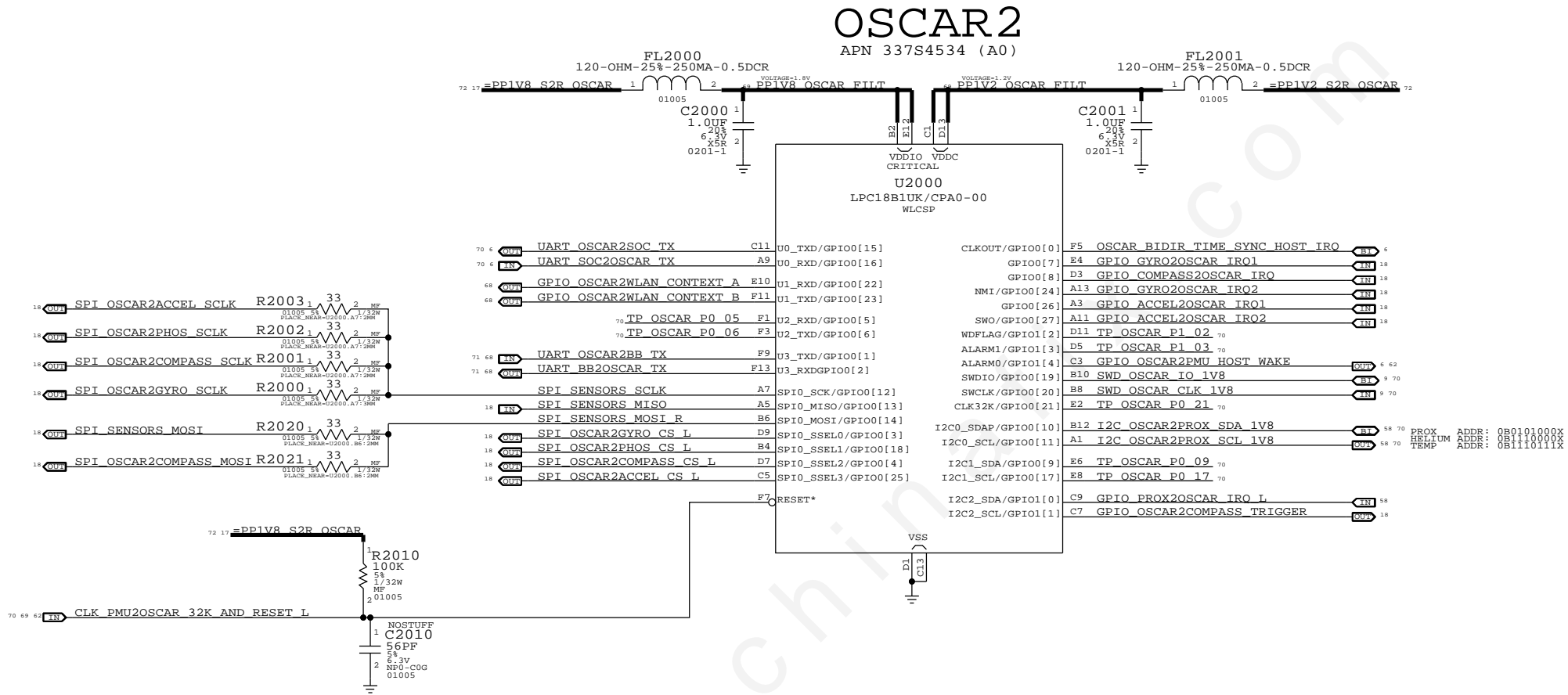
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OSCAR

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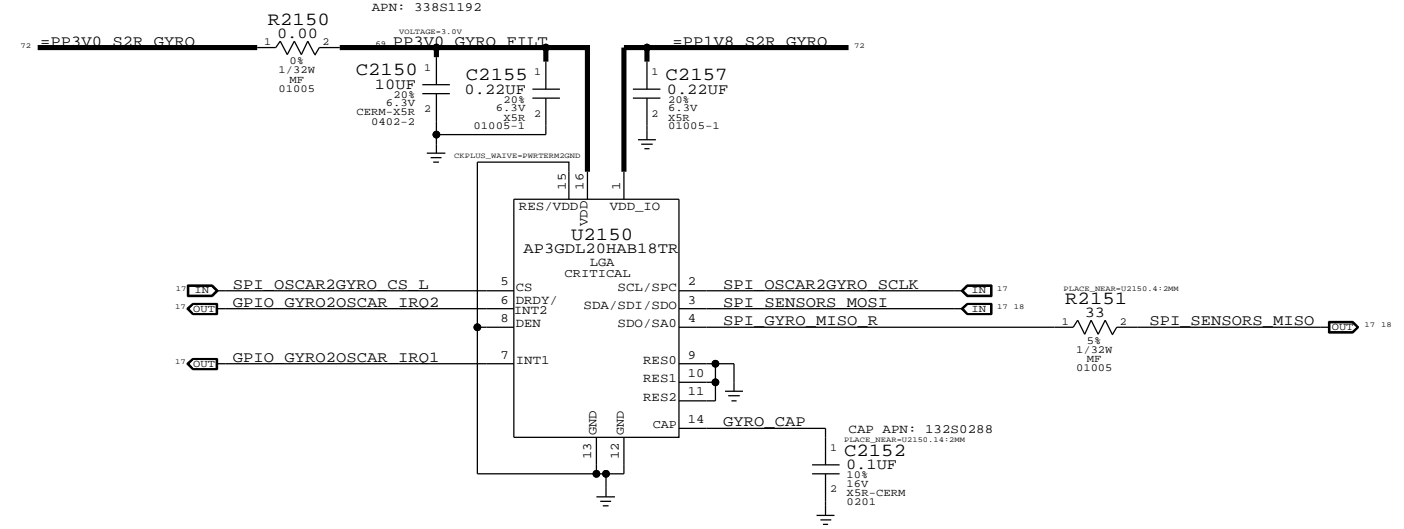


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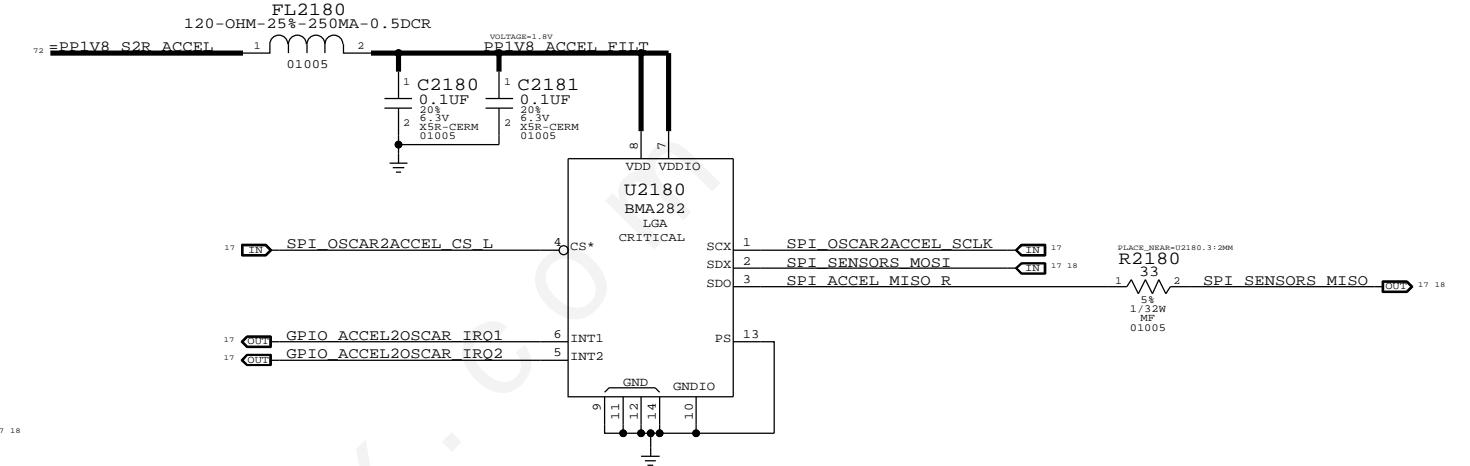
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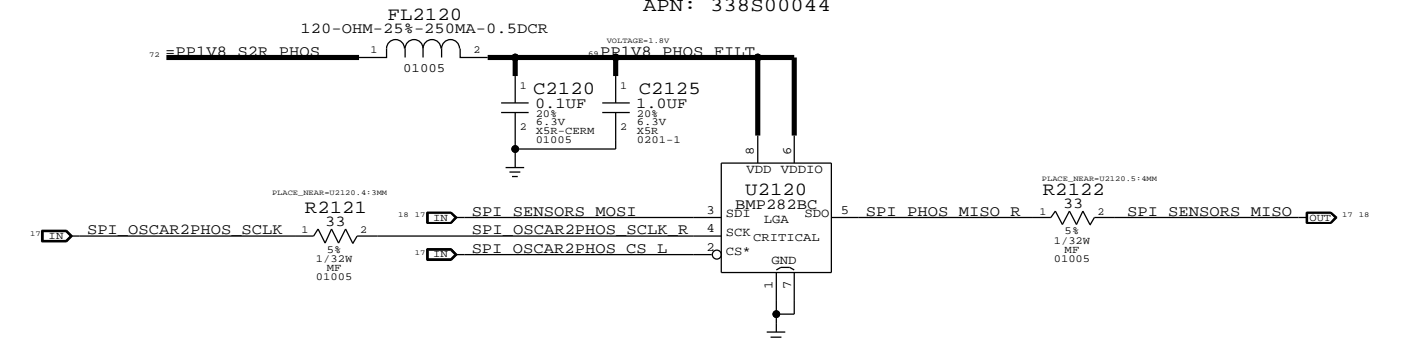
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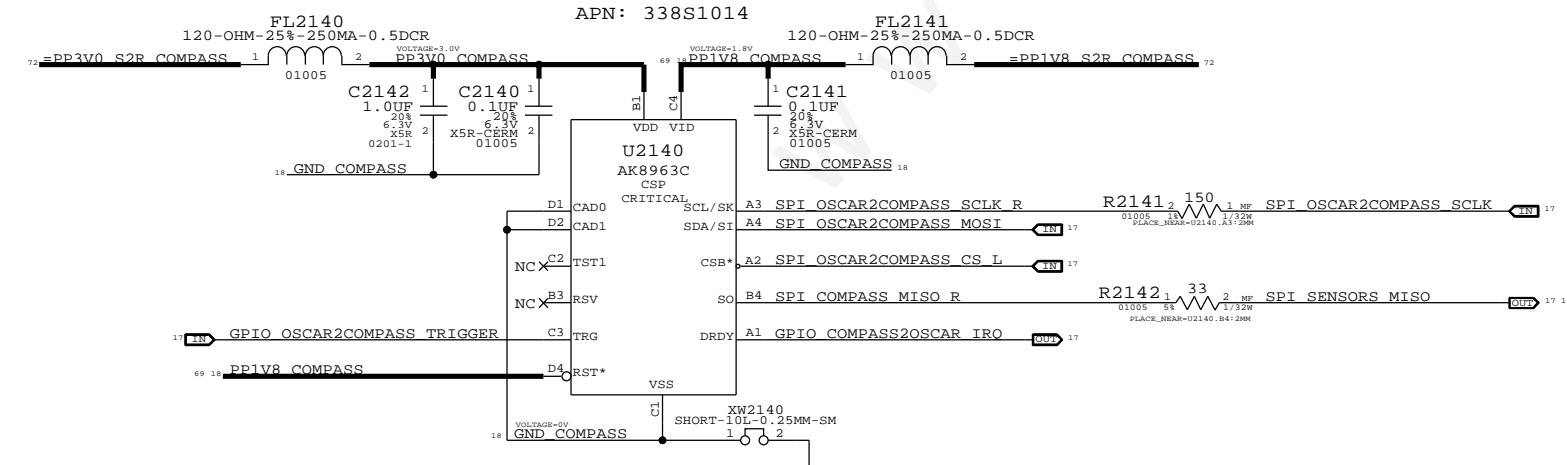
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COMPASS



PAGE TITLE		PAGE NUMBER	
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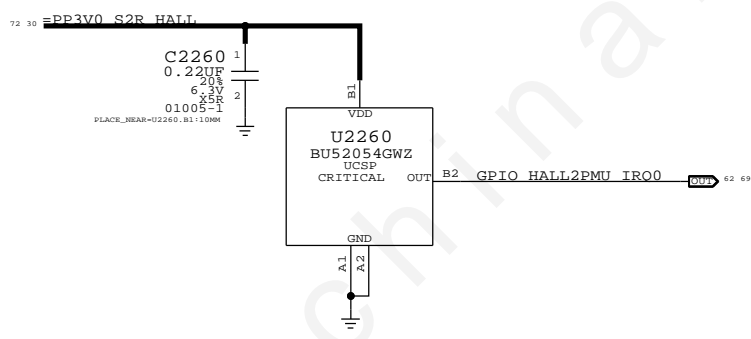


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HALL EFFECT

HALL EFFECT

APN 353S3687



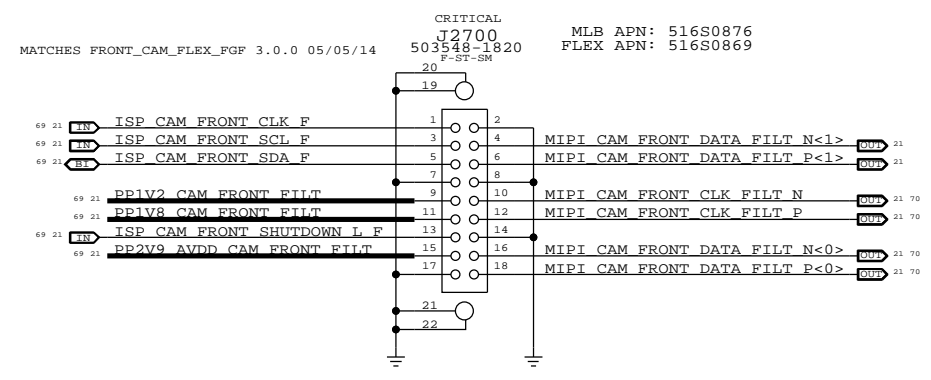
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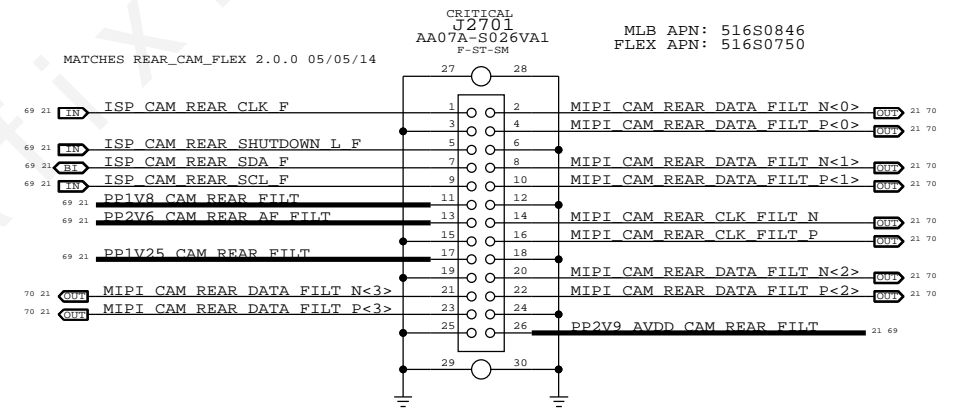



FRONT & REAR CAMERA CONNECTORS

FRONT CAMERA CONNECTOR



REAR CAMERA CONNECTOR



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FRONT CAMERA SUPPORT

PART#	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
15580018	7 PER SITE, 800MHZ, 25%, 500MA, 0.18DCR	FL2802, FL2800, FL2803, FL2805, FL2801	CRITICAL	
15580667	8 COMMON MODE CHOKE, 90OHM, 10DMA	L2810, L2811, L2812, L2805, L2801	CRITICAL	

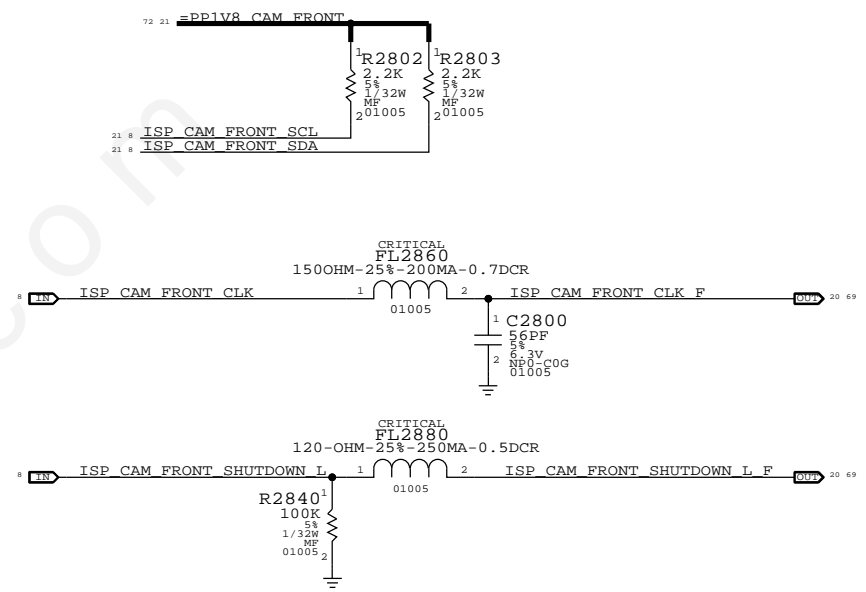
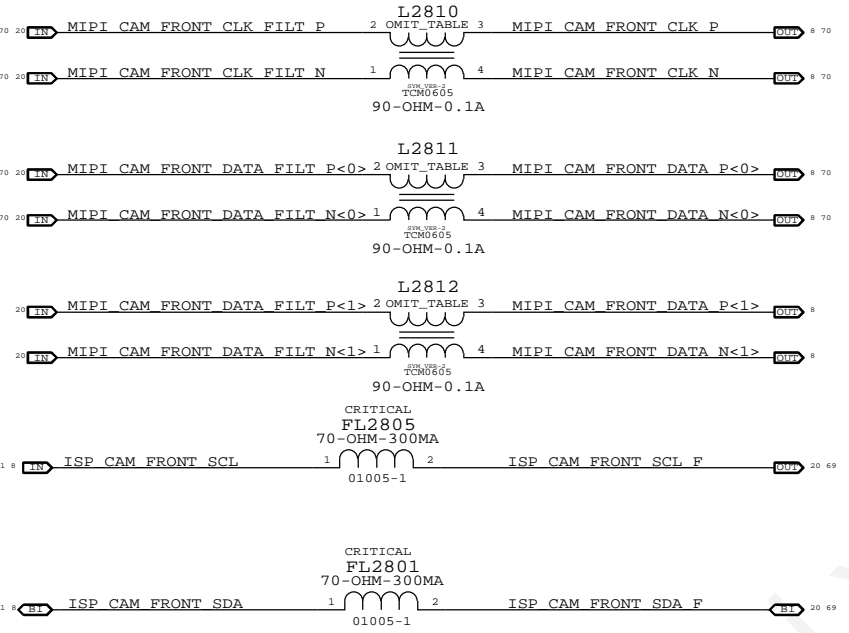
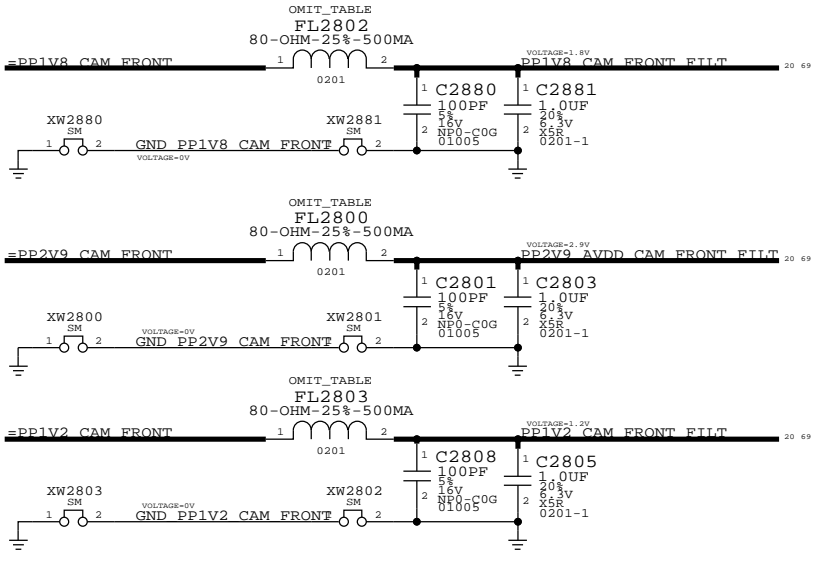
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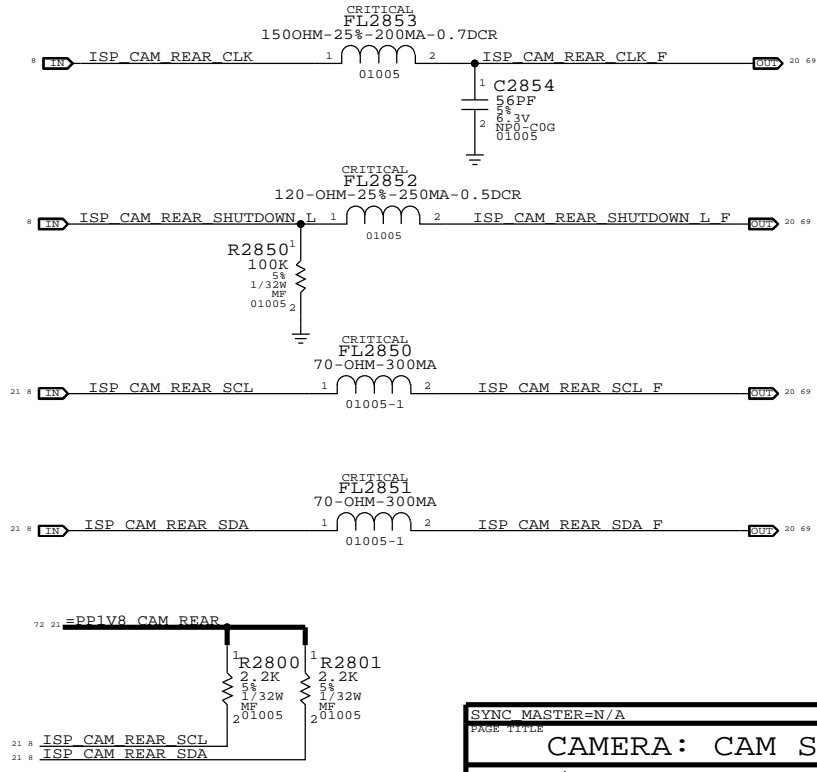
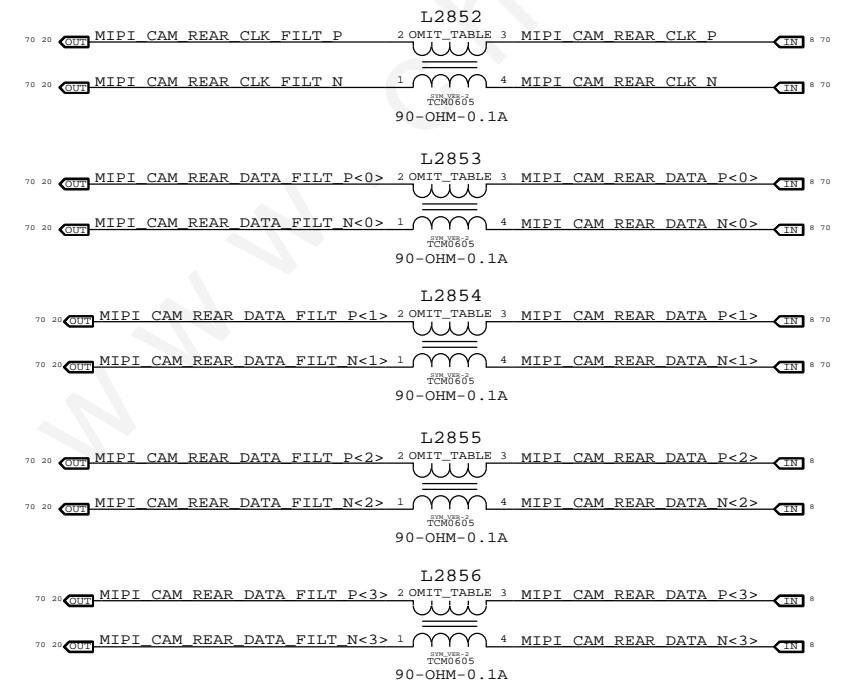
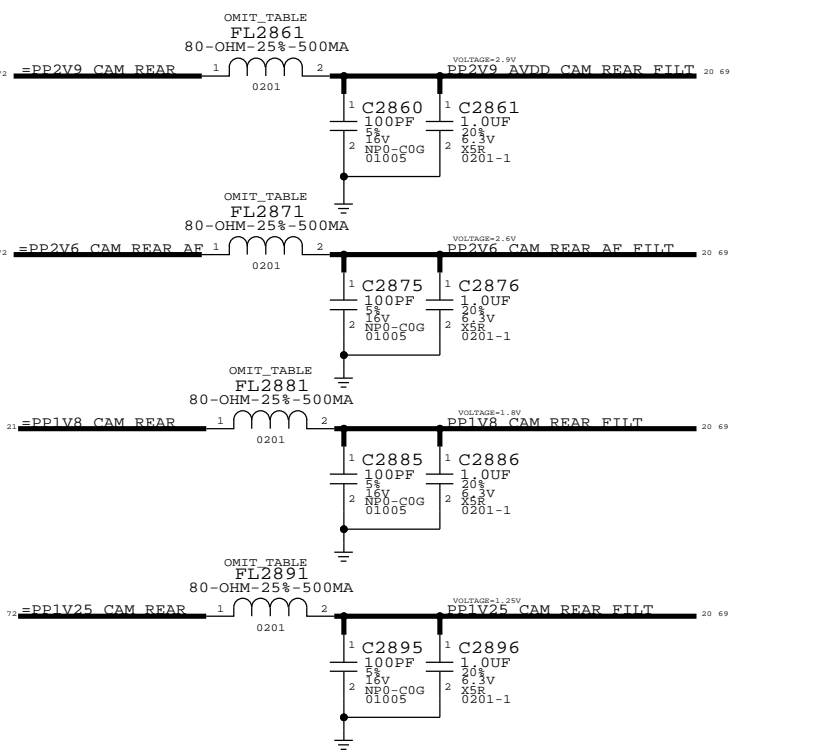
REAR CAMERA SUPPORT

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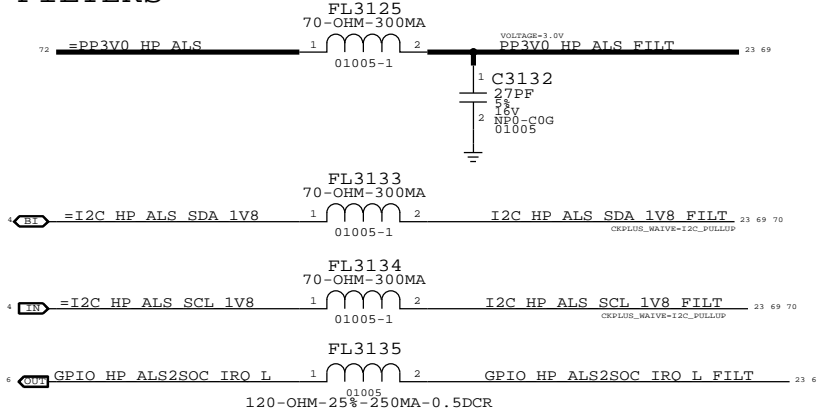




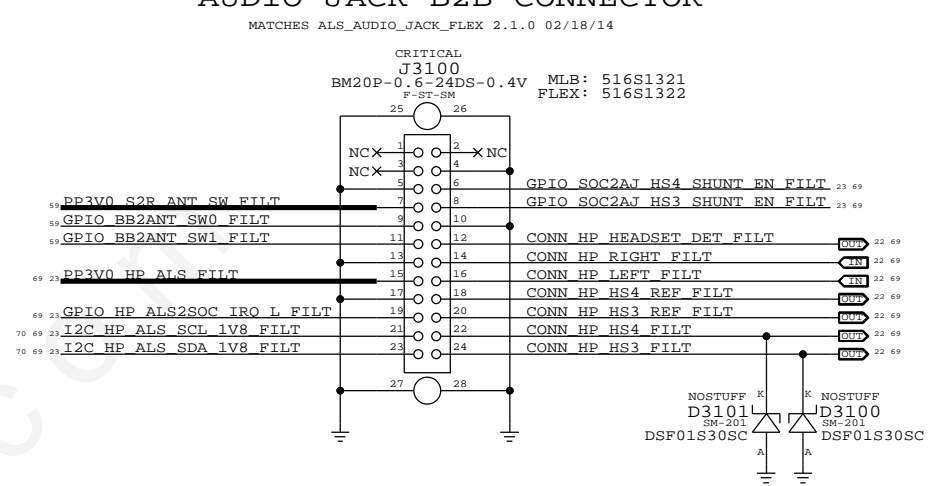
AUDIO JACK AND DMIC CONN

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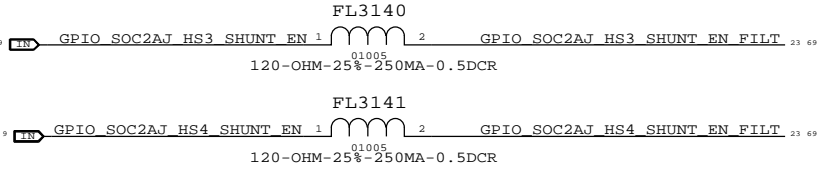
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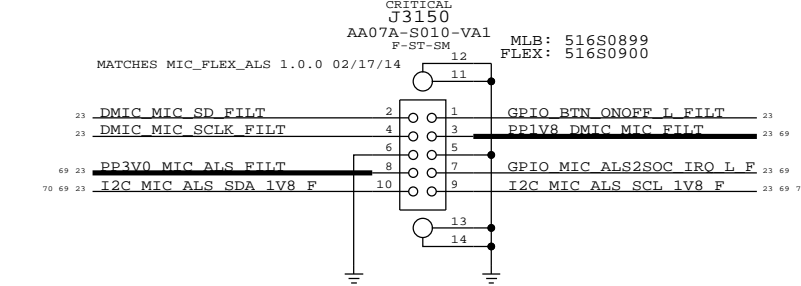
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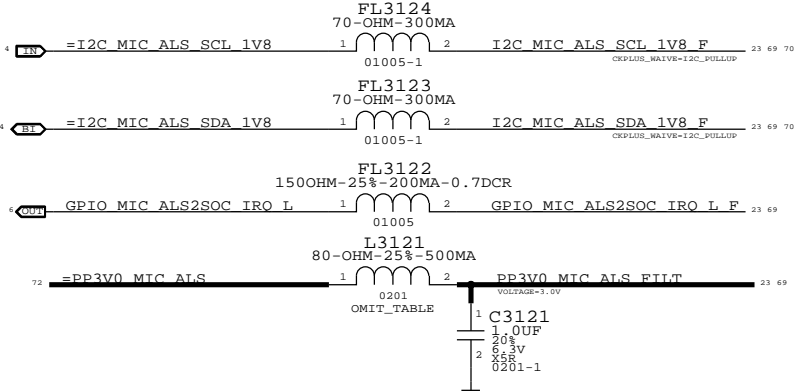
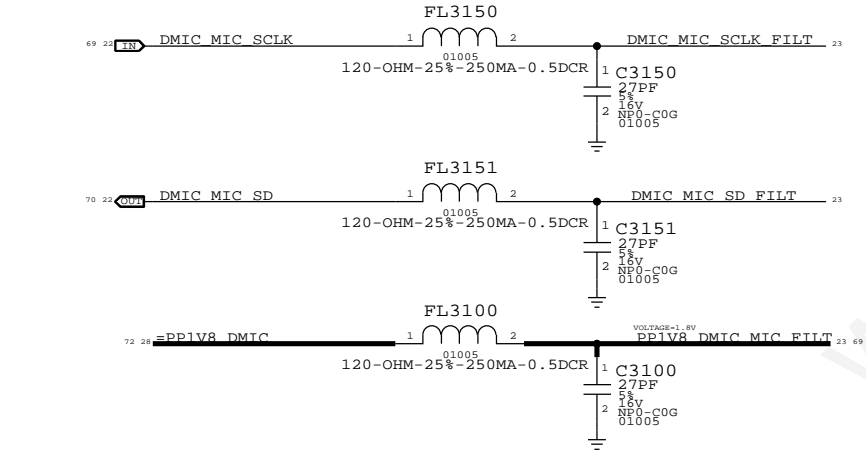
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MIC FLEX CONNECTOR



DMIC FILTERS



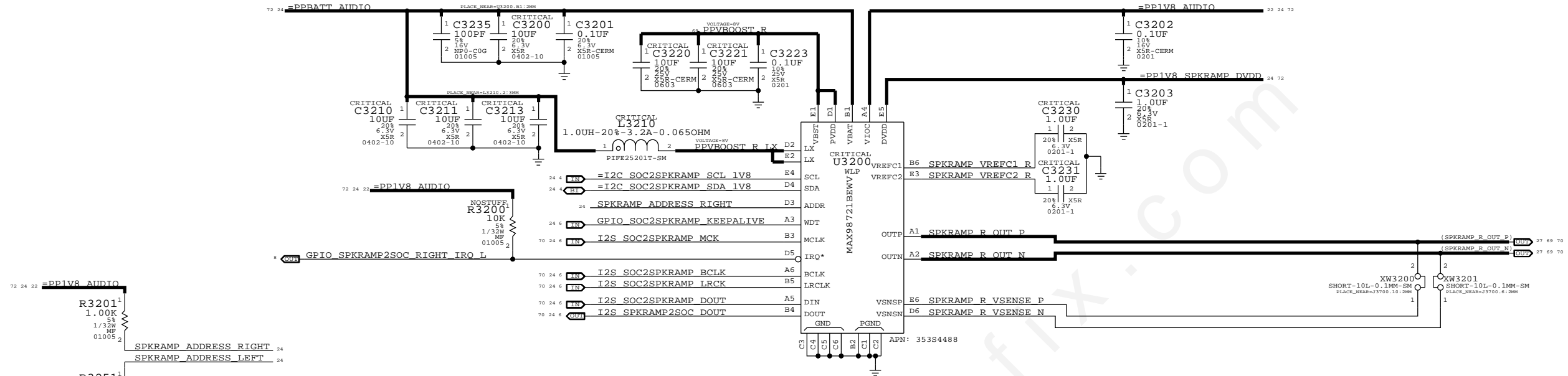
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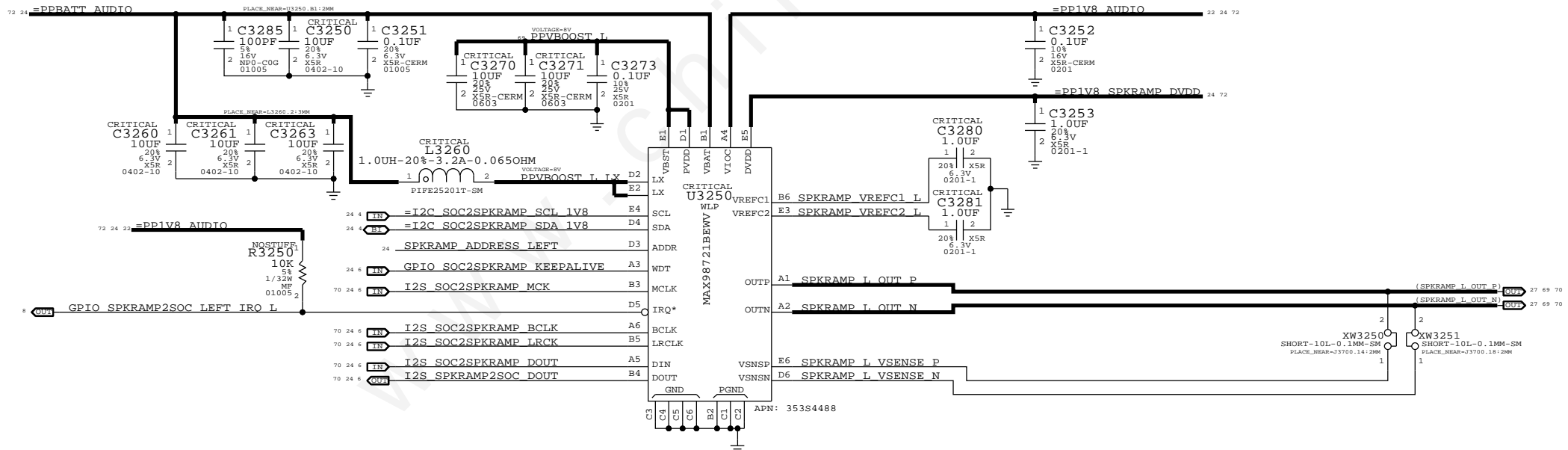
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RIGHT SPEAKER AMP



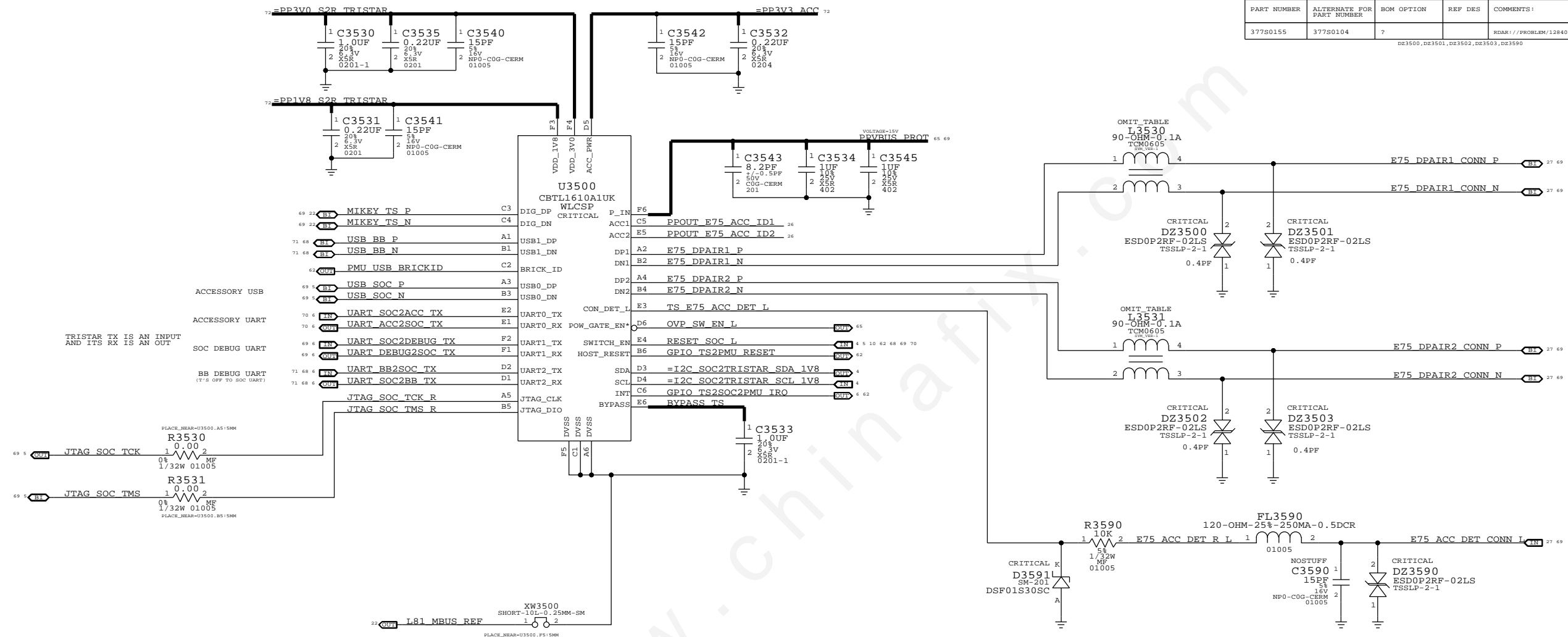
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PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
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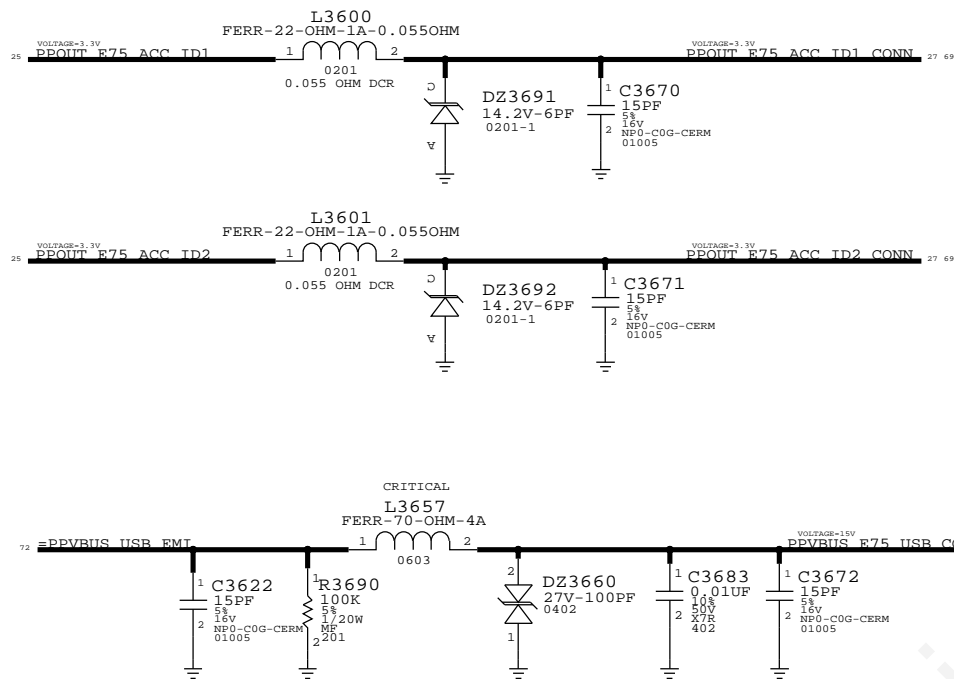
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
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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
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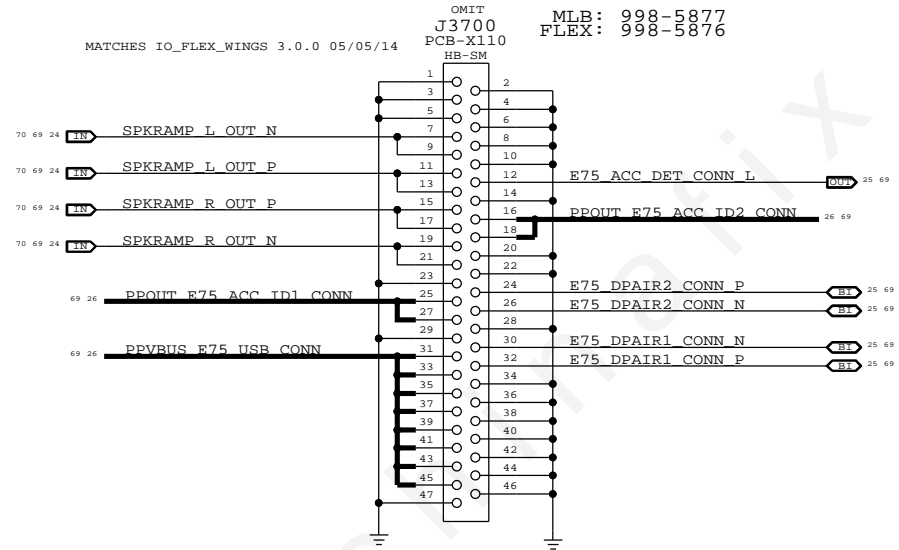
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IO FLEX HOTBAR PADS



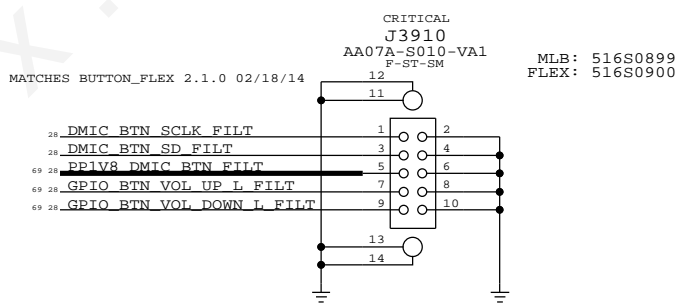
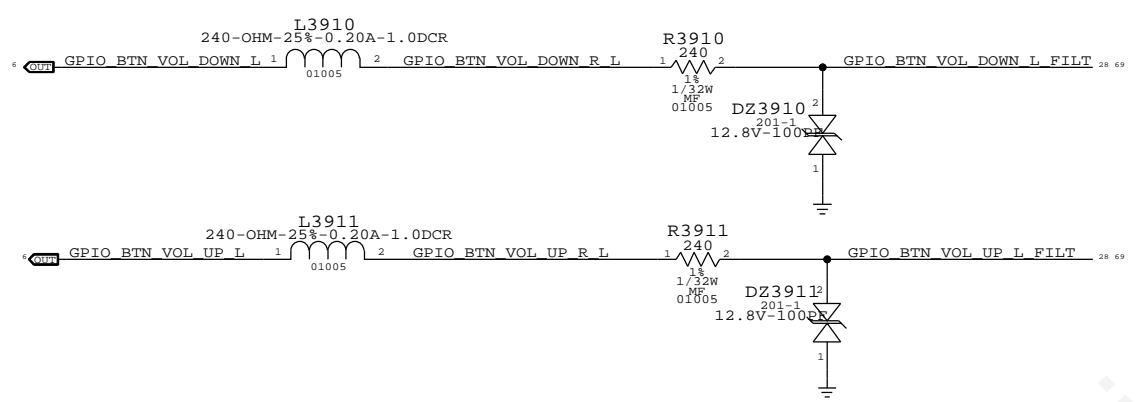
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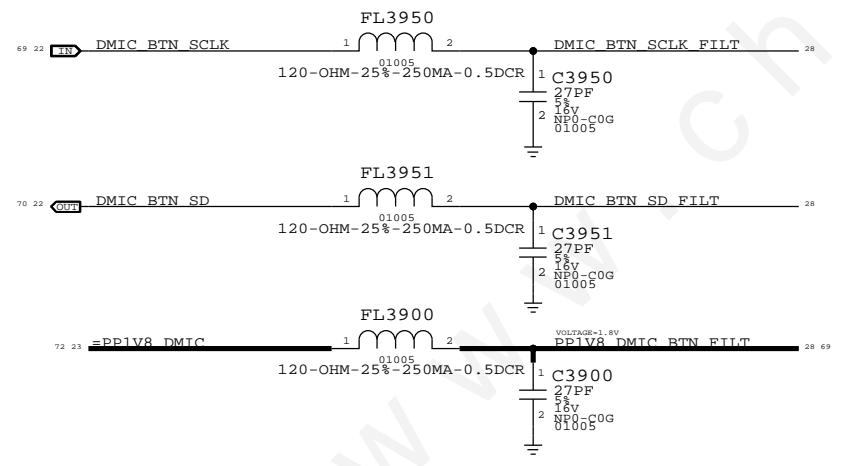



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BUTTON CONNECTOR



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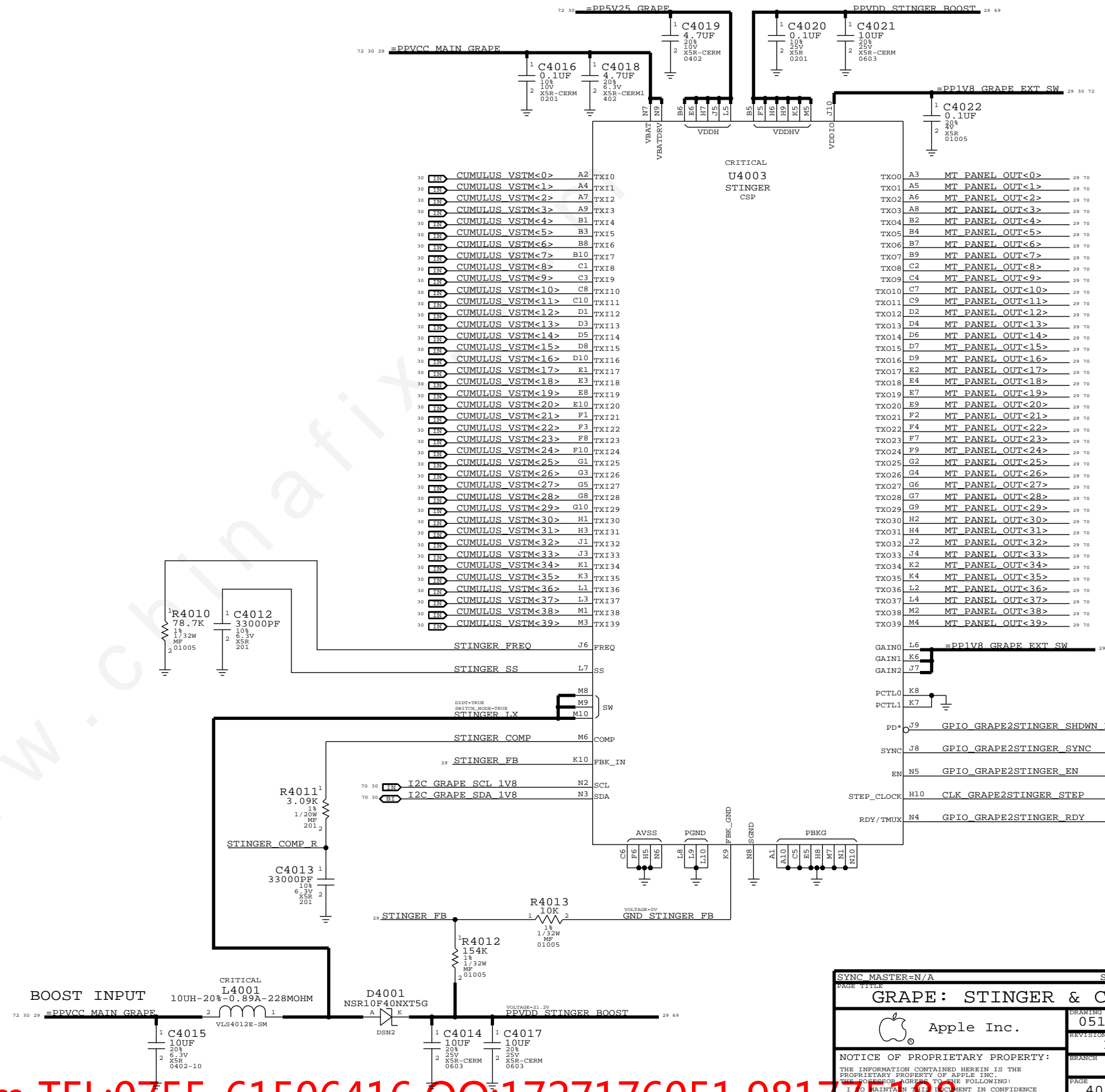
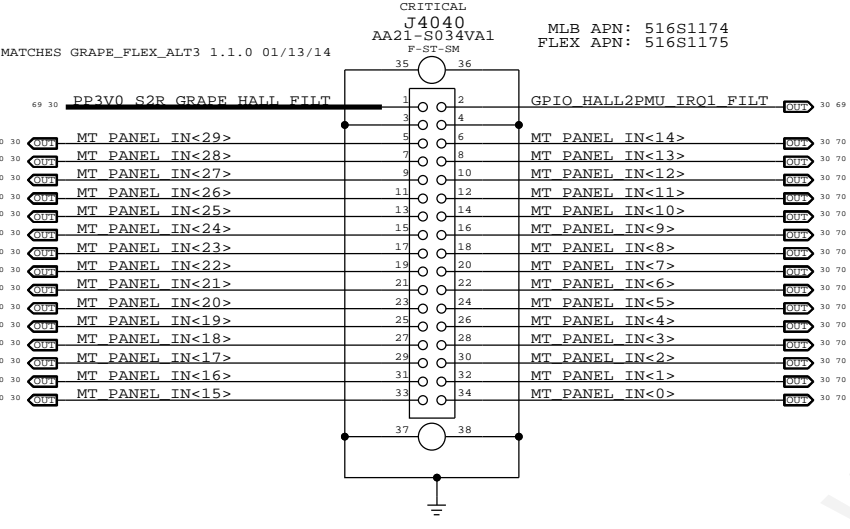
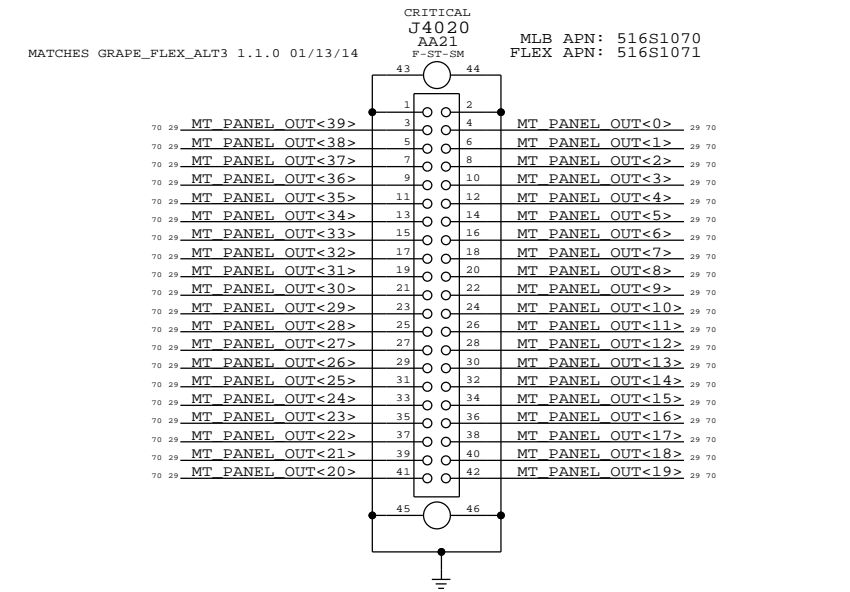
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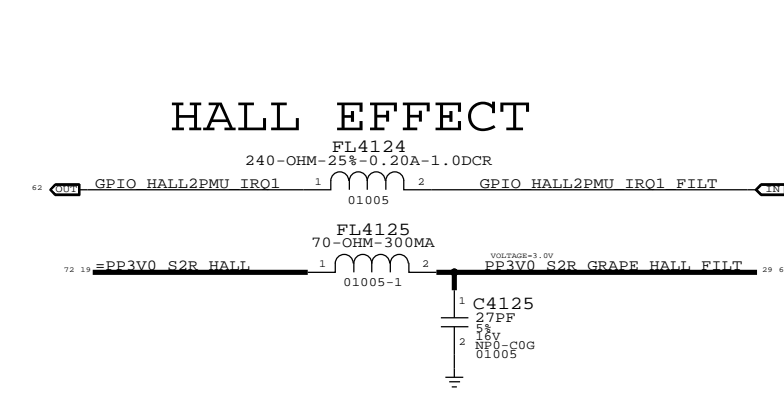
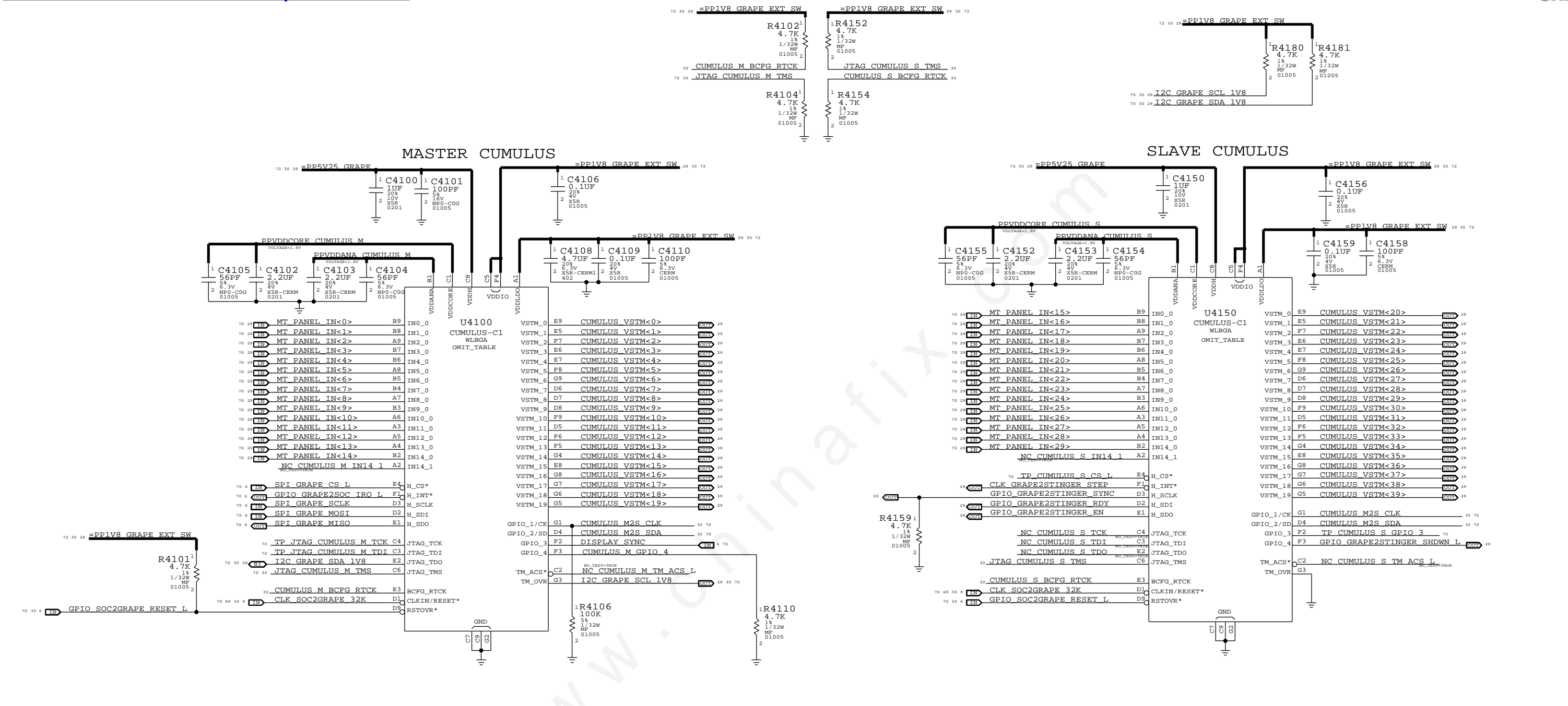
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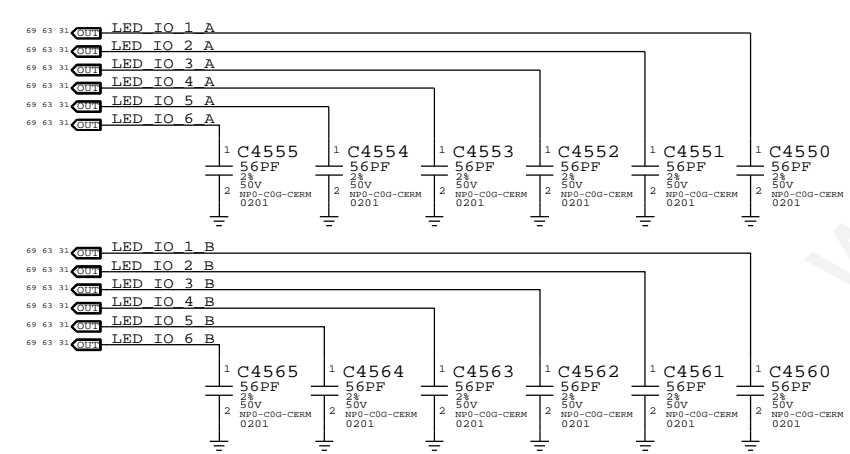
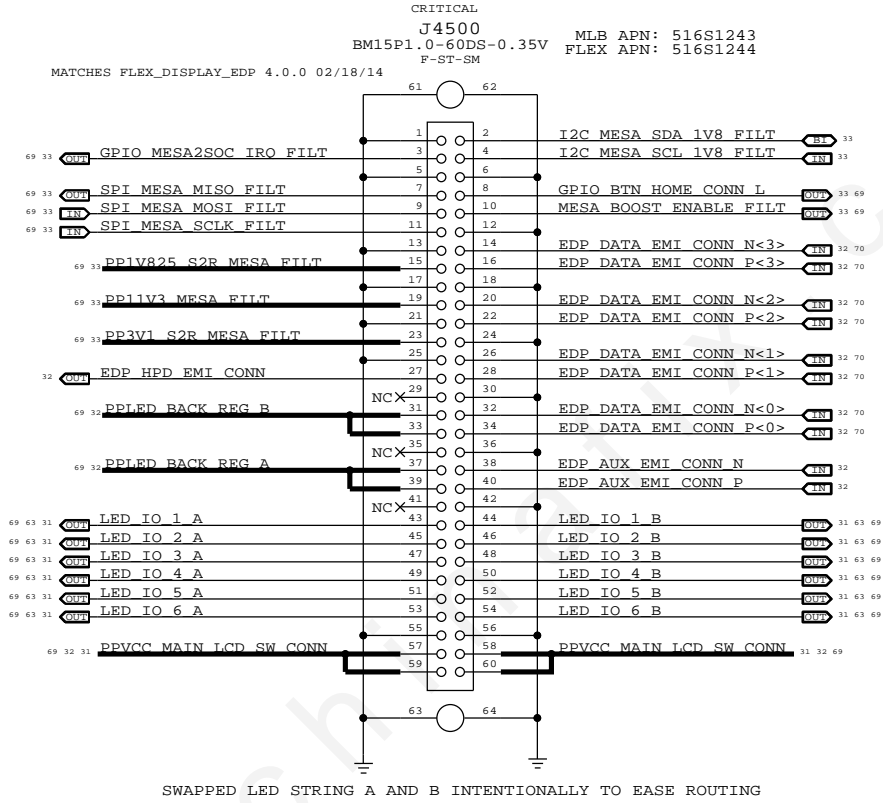
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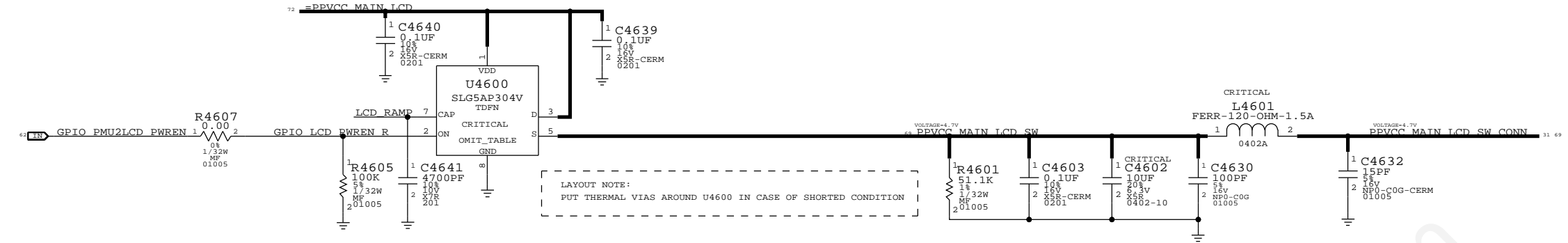


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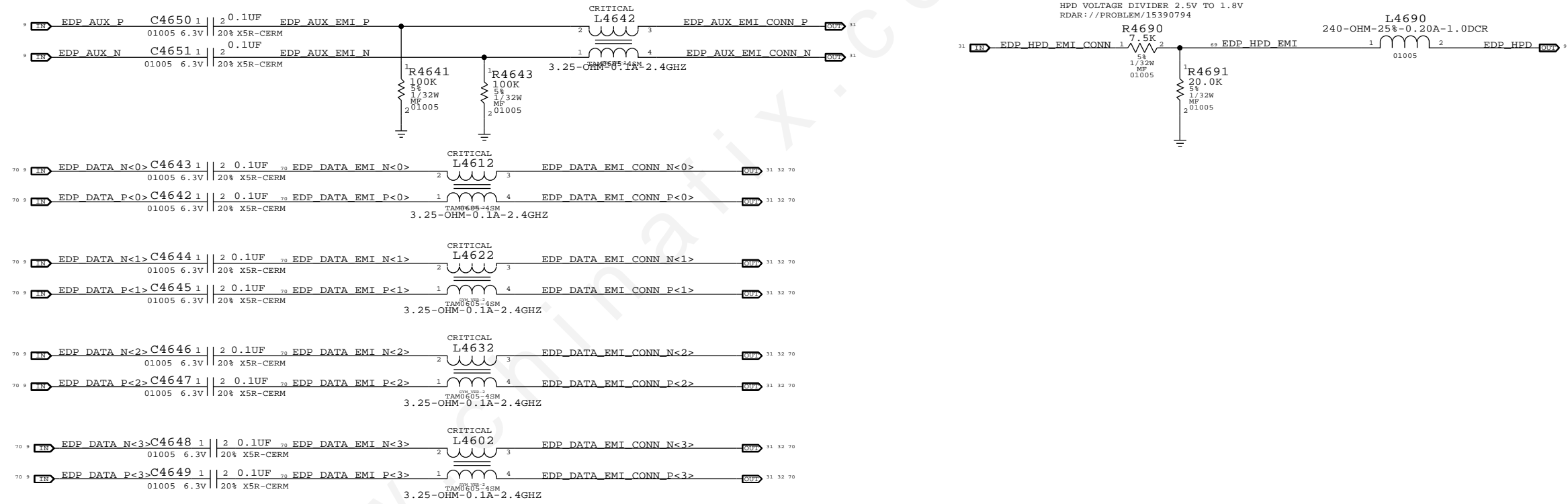
D



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353S4272	1	IC,SLG5AP1423V	U4600	CRITICAL	?

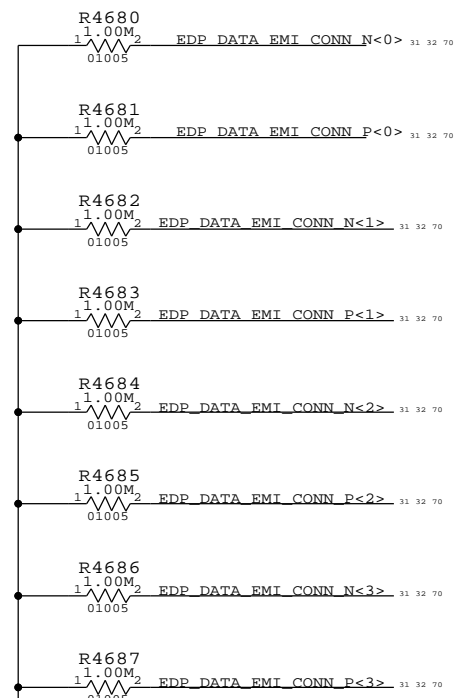
C

C



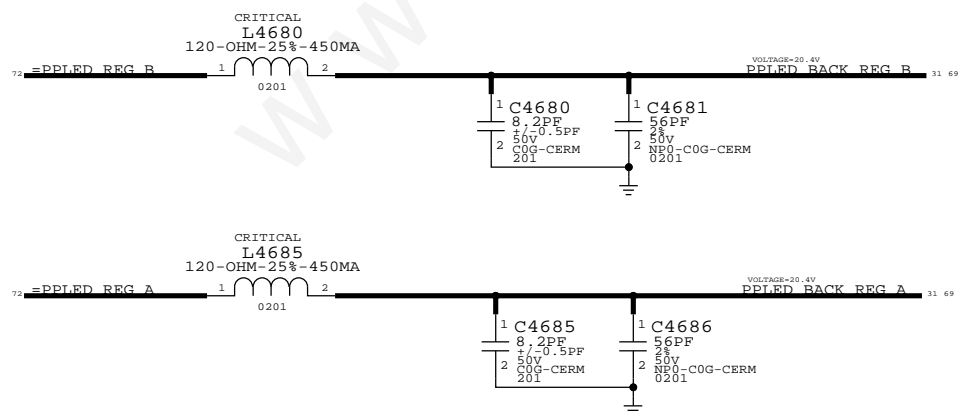
B

B




A

A



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SYNC MASTER=N/A		SYNC DATE=N/A	
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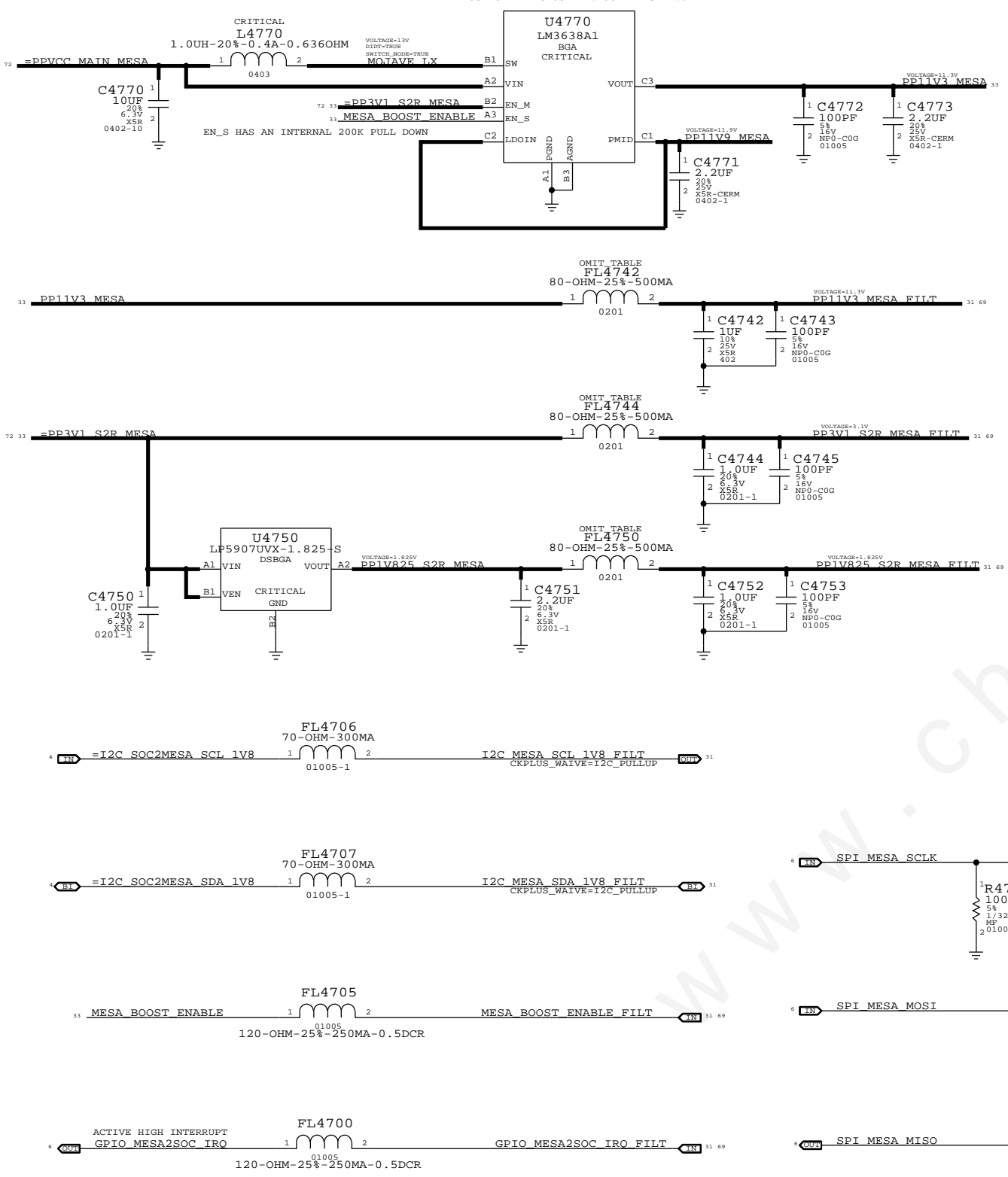


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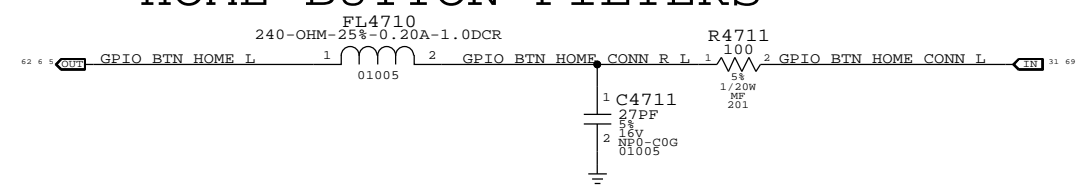
MESA & HOME BUTTON

MOJAVE

USING A1 BECAUSE NAVAJO NEEDS 11V3



HOME BUTTON FILTERS




PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S00017	155S0755			RDAR://PROBLEM/15807137

FL3910, FL3911, FL4124, L4690, FL4710

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S00018	155S0664			RDAR://PROBLEM/15796569

FL2800, FL2802, FL2803, FL2861, FL2871, FL2881, FL2891, FL4742, FL4744, FL4750, FL7900

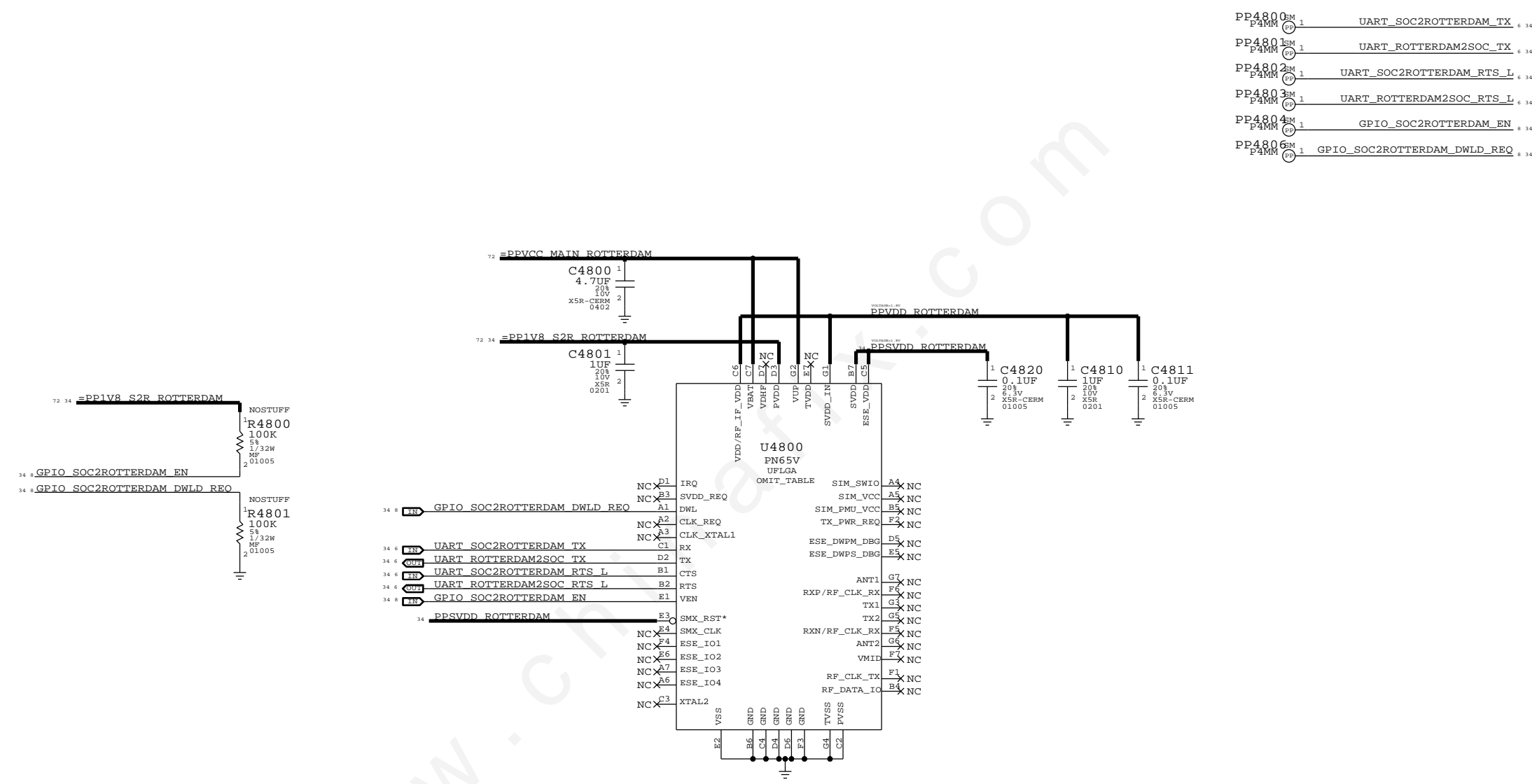
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		BRANCH	
		PAGE	47 OF 155
		SHEET	33 OF 73

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J82 - ROTTERDAM

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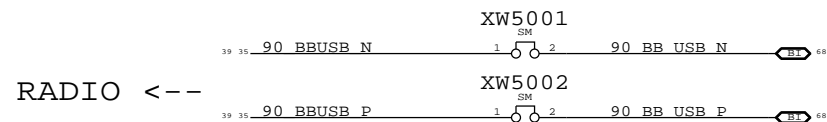


AP INTERFACE & DEBUG CONNECTOR

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TEST POINTS

TP5000 A 1 50_BB_HSIC_STROBE TP-PS	TP5009 A 1 BB_JTAG_RST_L TP-PS
TP5001 A 1 50_BB_HSIC_DATA TP-PS	TP5010 A 1 BB_JTAG_TCK TP-PS
TP5002 A 1 BB_DEBUG_ERROR TP-PS	TP5011 A 1 BB_JTAG_TMS TP-PS
TP5003 A 1 PS_HOLD_PMIC TP-PS	TP5012 A 1 BB_JTAG_TDO TP-PS
TP5004 A 1 PMIC_RESOUT_L TP-PS	TP5013 A 1 BB_JTAG_TDI TP-PS
TP5005 A 1 MDM_CLK TP-PS	TP5014 A 1 BB_JTAG_TRST_L TP-PS
TP5006 A 1 PP_LD011 TP-PS	TP5015 A 1 BB_DEBUG_STATUS TP-PS
TP5007 A 1 SPMI_DATA TP-PS	TP5016 A 1 BOOT_HSIC TP-PS
TP5008 A 1 SPMI_CLK TP-PS	TP5017 A 1 RFFE1_CLK TP-PS
TP5025 A 1 BOUNDARY_SCAN_EN TP-PS	TP5018 A 1 RFFE1_DATA TP-PS
TP5021 A 1 PP_BATT_VCC TP-PS	TP5019 A 1 RFFE2_CLK TP-PS
TP5028 A 1 TP-PS	TP5020 A 1 RFFE2_DATA TP-PS
TP5026 A 1 TP-PS	TP5031 A 1 90_BBUSB_N TP-PS
TP5027 A 1 TP-PS	TP5030 A 1 90_BBUSB_P TP-PS



PROBE POINTS

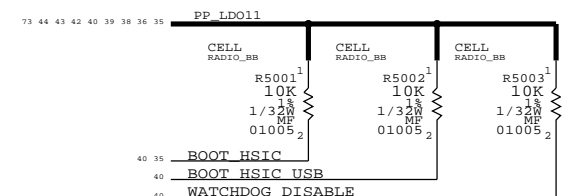
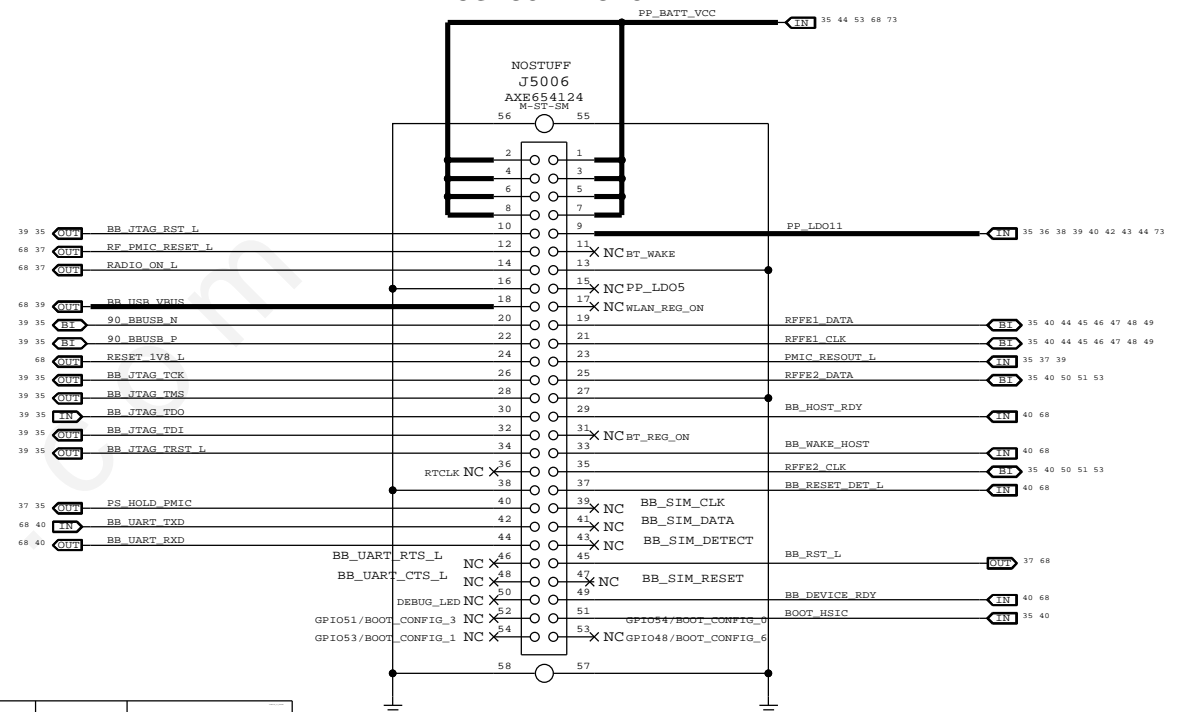
PP5000 P 4MM SM 1 SLEEP_CLK_32K PP	PP5001 P 4MM SM 1 BB_EEPROM_SCL PP
PP5002 P 4MM SM 1 BB_EEPROM_SDA PP	PP5003 P 4MM SM 1 ET_DAC_P PP
PP5004 P 4MM SM 1 ET_DAC_N PP	TP5029 A 1 PP_LD06 TP-PS

CONFIG_RF BOM OPTIONS

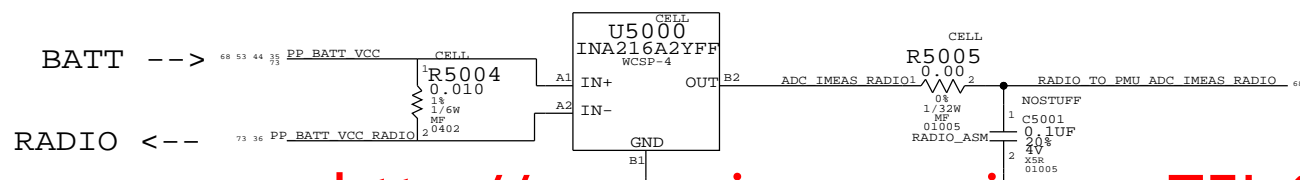
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131S0273	1	0.8PF 0201	C6001	CRITICAL	X137_RF
131S0273	1	0.8PF 0201	C6001	CRITICAL	X202_RF
131S0431	1	0.2PF 0201	C6013	CRITICAL	X190_RF
131S0273	1	0.8PF 0201	C6013	CRITICAL	X137_RF
131S0273	1	0.8PF 0201	C6013	CRITICAL	X202_RF
152S2020	1	3.6NH +/-0.1NH 400MA 0201	L6001	CRITICAL	X190_RF
152S2022	1	4.3NH 3% 500MA 0201	L6001	CRITICAL	X137_RF
152S2022	1	4.3NH 3% 500MA 0201	L6001	CRITICAL	X202_RF
131S0323	1	1.1PF 0201	C6421	CRITICAL	X190_RF
152S1217	1	1.0NH +/-0.1NH 750MA 0201	L6402	CRITICAL	X190_RF
152S2042	1	1.8NH +/-0.1NH 800MA 0201	L6402	CRITICAL	X137_RF
152S2042	1	1.8NH +/-0.1NH 800MA 0201	L6402	CRITICAL	X202_RF
152S1994	1	6.8NH 3% 210MA 01005	C6202	CRITICAL	X190_RF
152S1977	1	10.0NH 3% 170MA 01005	C6202	CRITICAL	X137_RF
152S1994	1	6.8NH 3% 210MA 01005	C6202	CRITICAL	X202_RF
152S00028	1	22NH 3% 120MA 01005	L6720	CRITICAL	X190_RF
152S1979	1	18NH 1% 140MA 01005	L6720	CRITICAL	X137_RF
152S1979	1	18NH 1% 140MA 01005	L6720	CRITICAL	X202_RF
138S0831	5	MURATA 2.2UF CAPACITOR	CS101,CS121,CS122,C6010,C6011	CRITICAL	CELL

REPLACES 138S0917, 138S0917, CAN ONLY BE USED ON RAILS WITH 3V OR LESS

DEBUG CONNECTOR




PP_VCC_MAIN CURRENT SENSE



BOM ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S1850	152S1721		L6001, L6103, L6104	MURATA IN, 2.2UM, 2016
152S2050	152S1857		L5902	TAIYO IND, 2.2UM, 2012

REVISION DATE: 9/29/2014

SYNC MASTER=RADIO		SYNC DATE=09/29/2014	
PRGR: 1004			
CELL: PROBE PTS & DEBUG CONN			
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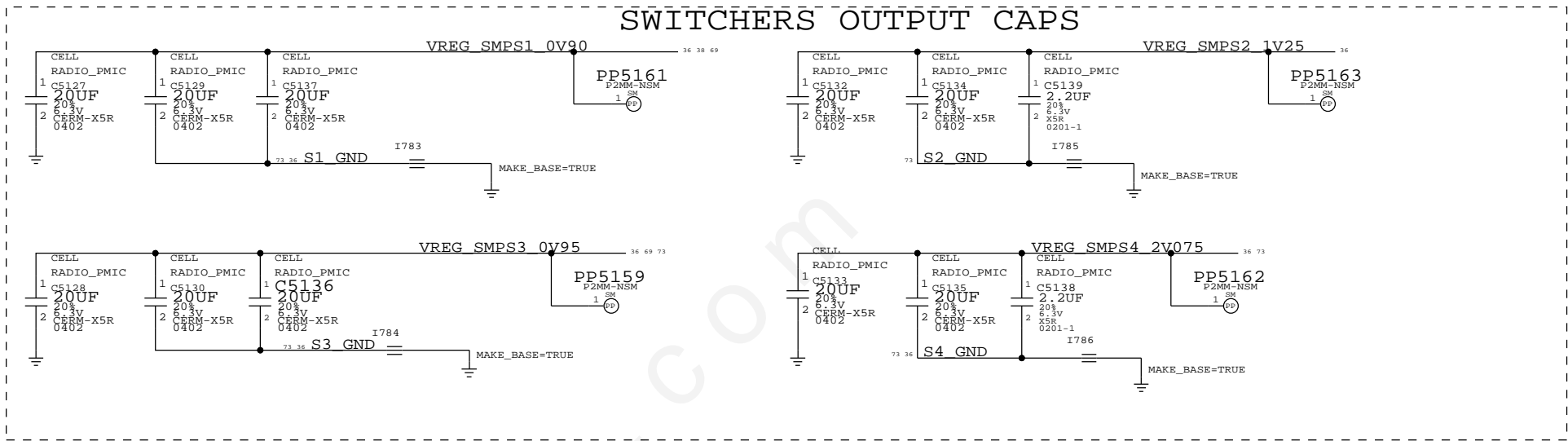
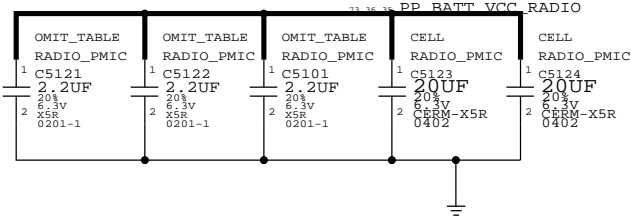
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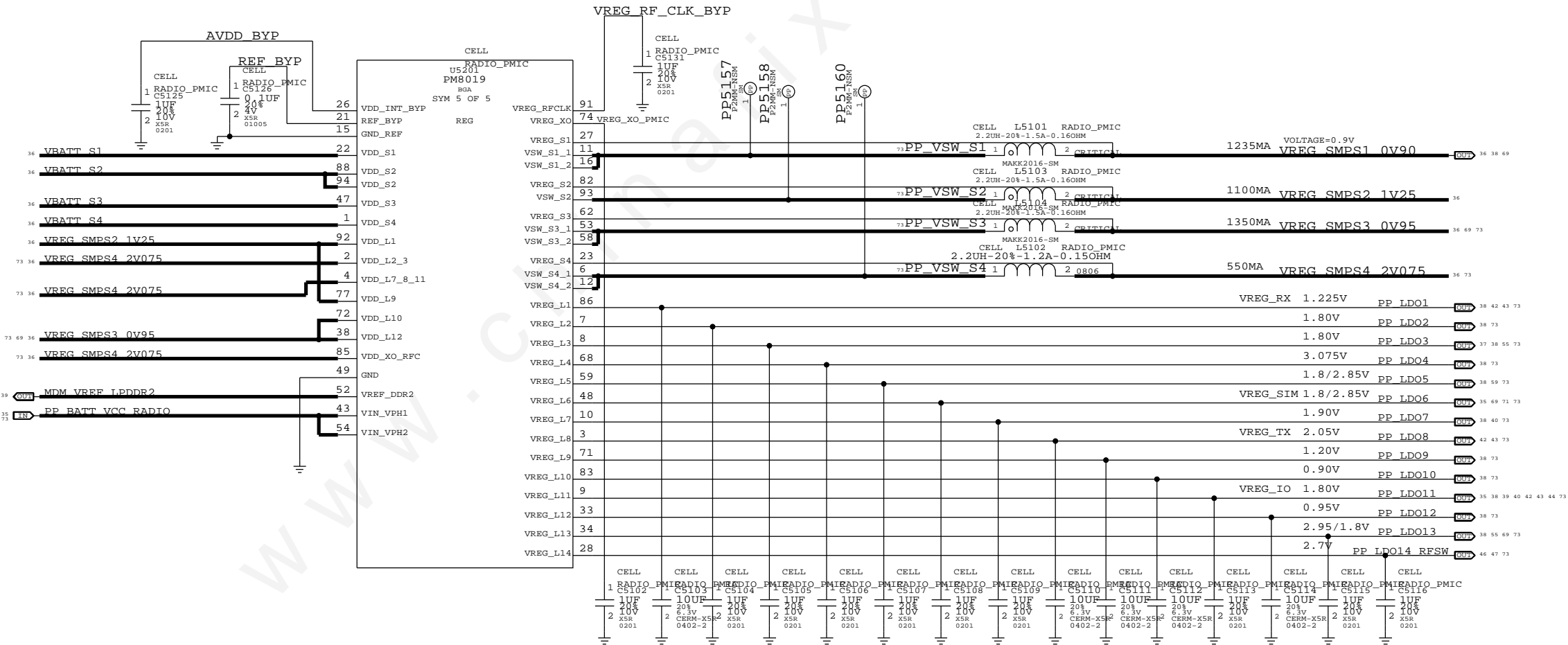
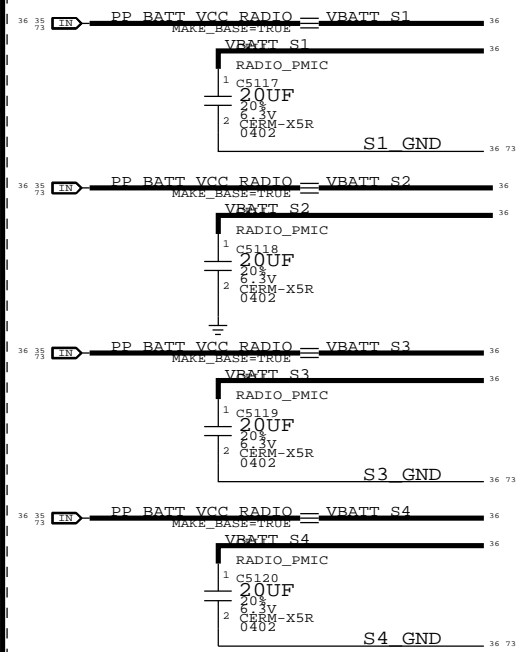
BASEBAND PMU (1 OF 2)

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C332
R302
L304
U301



SWITCHERS BULK CAPS




CELL: BB PMU (1/2)		
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	Branch	
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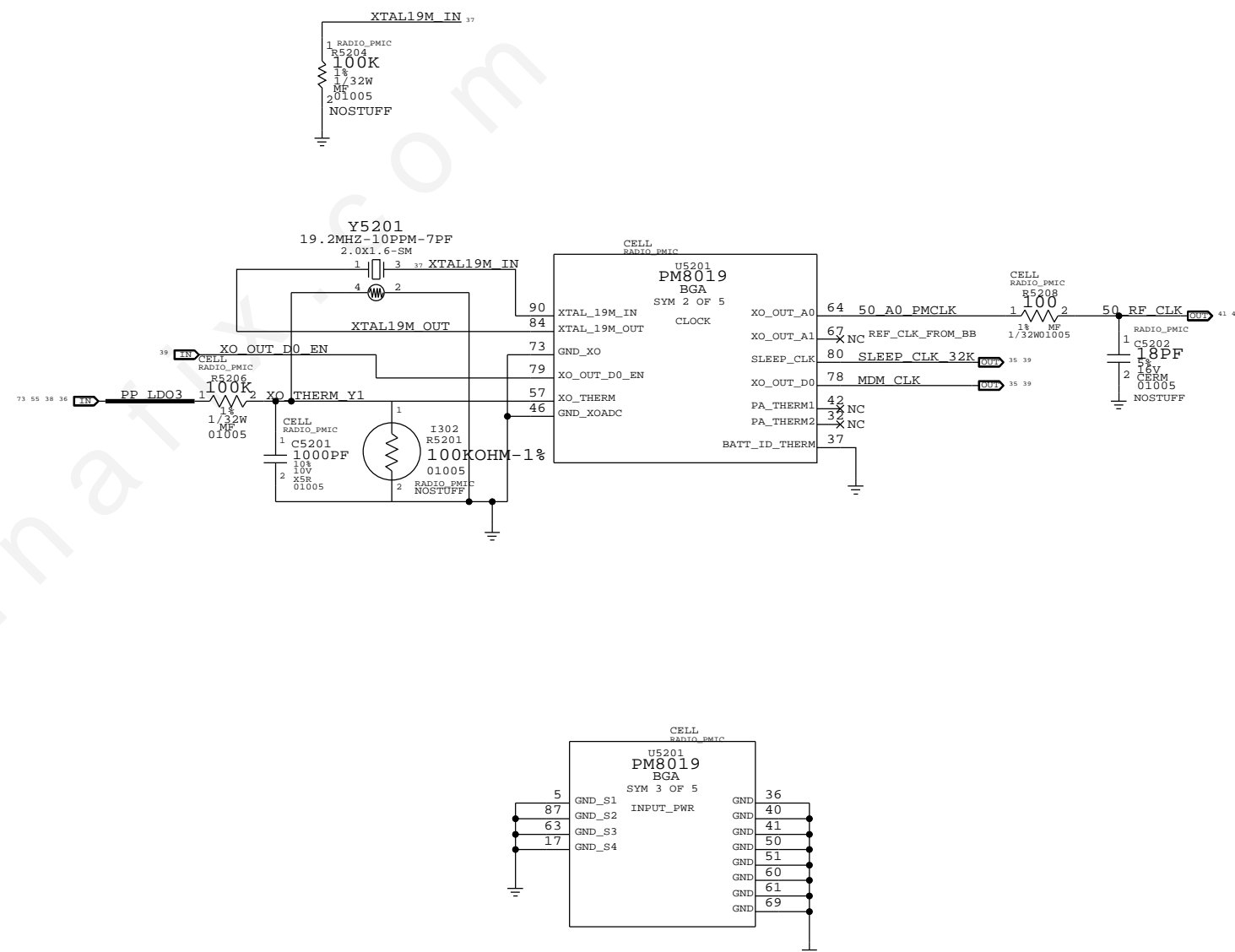
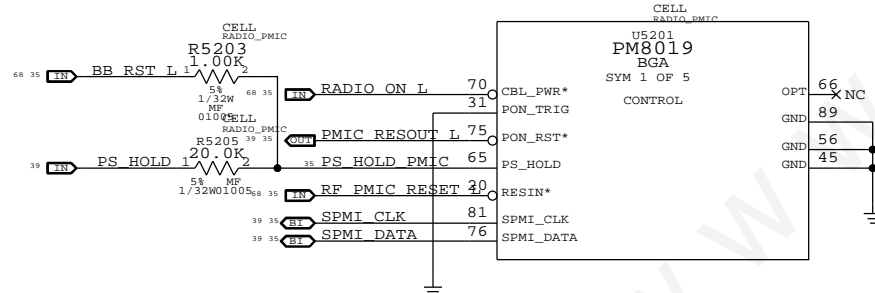
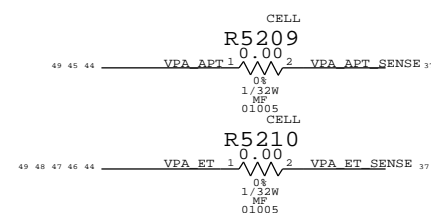
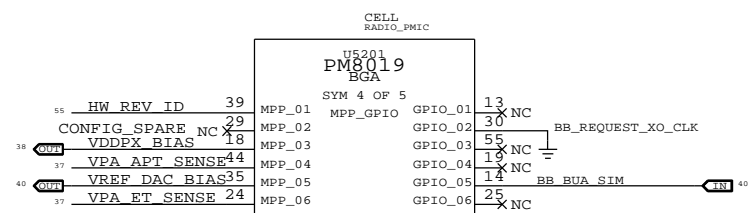
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C401	
R411	
L400	
U404	

HW_REV_ID	R5202	R5207	J82 REV	J97 REV	J99 REV
0.10V	887K	51.1K	N/A	PROTO0	N/A
0.20V	422K	51.1K	PROTO0	PROTO0B	PROTO0
0.30V	255K	51.1K	PROTO1	PROTO1	PROTO1
0.40V	178K	51.1K	PROTO2		
0.50V	255K	100K	EVT		
0.60V	102K	51.1K	DVT		
0.70V	82.5K	51.1K	PVT		



BASEBAND (1 OF 3)

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C538
R500
L500
U502



D

C

B

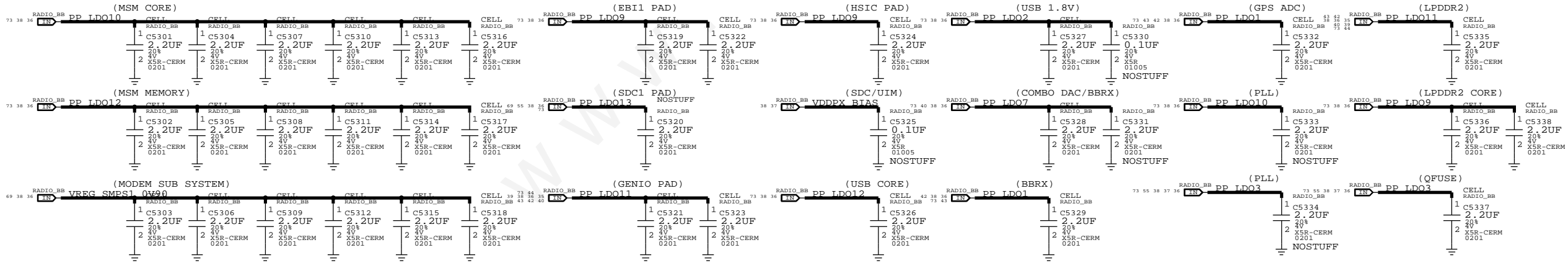
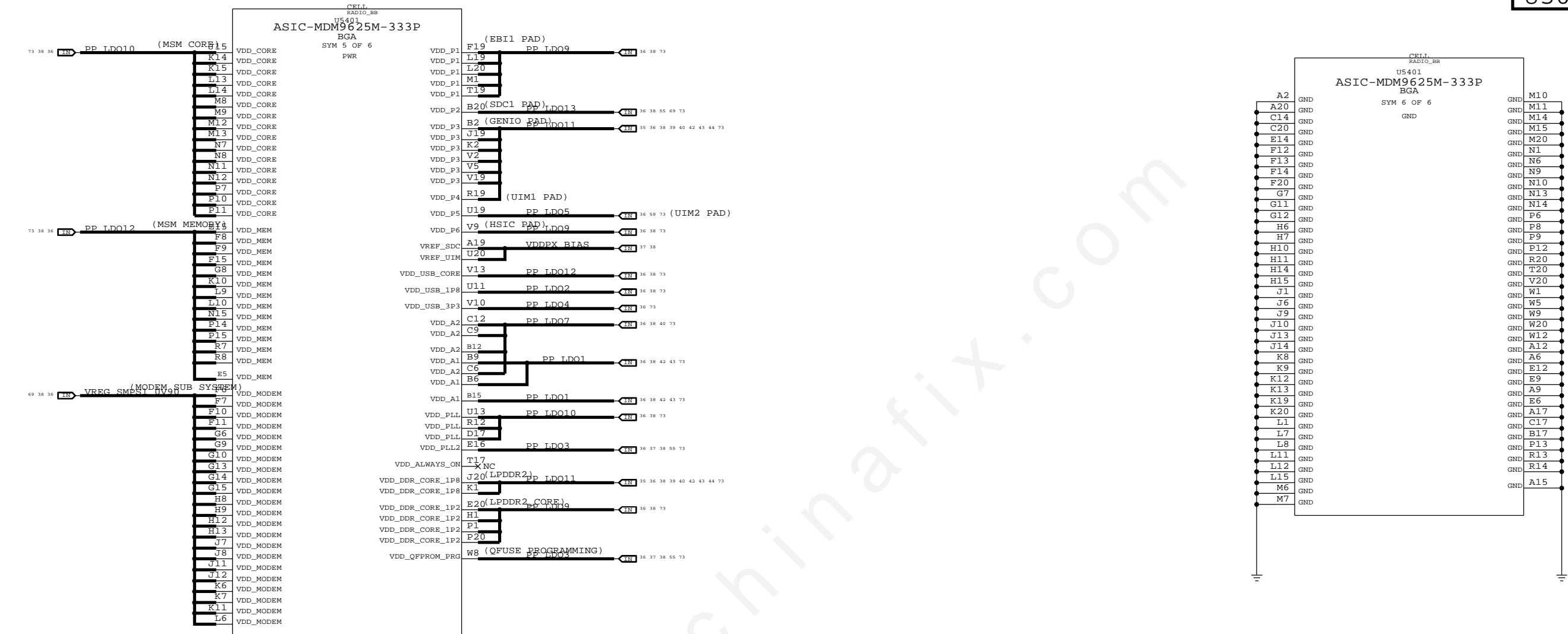
A


D

C

B

A



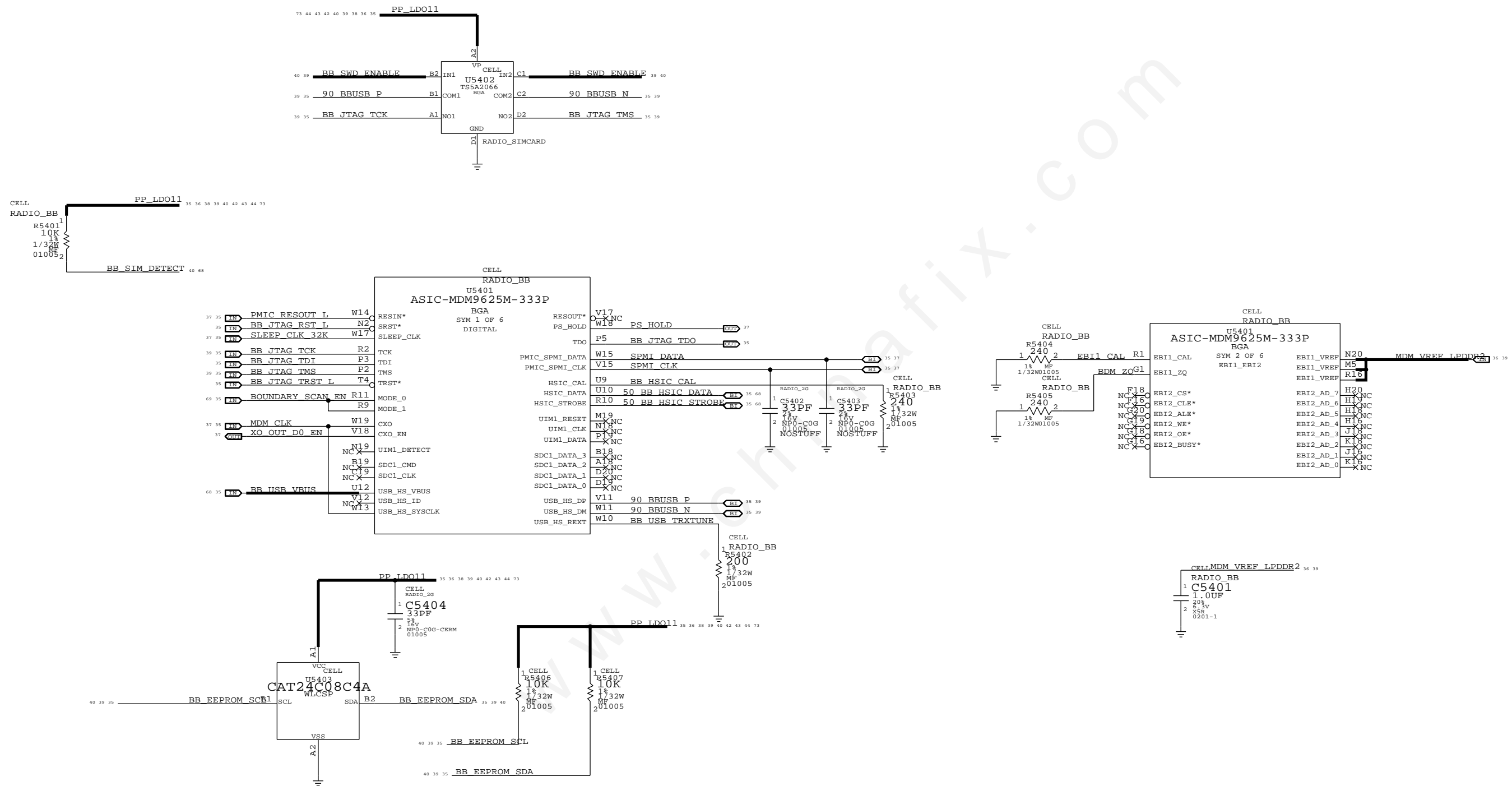
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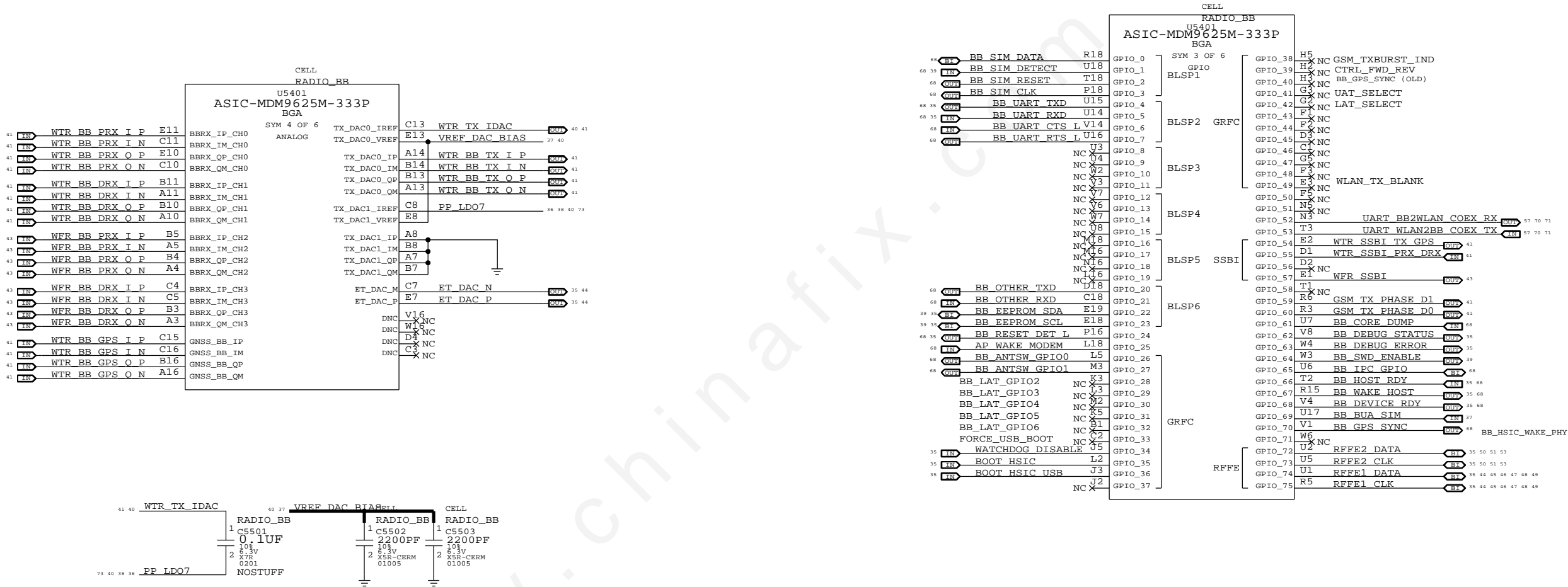
C600
R606
L600
U602



BASEBAND (3 OF 3)

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C704
R700
L700
U702



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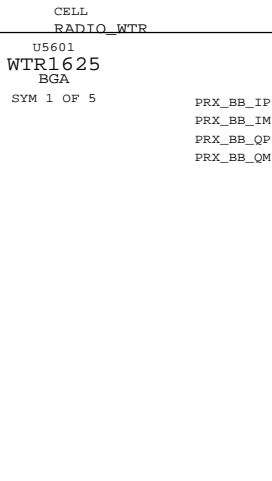
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C802
R802
L800
U803



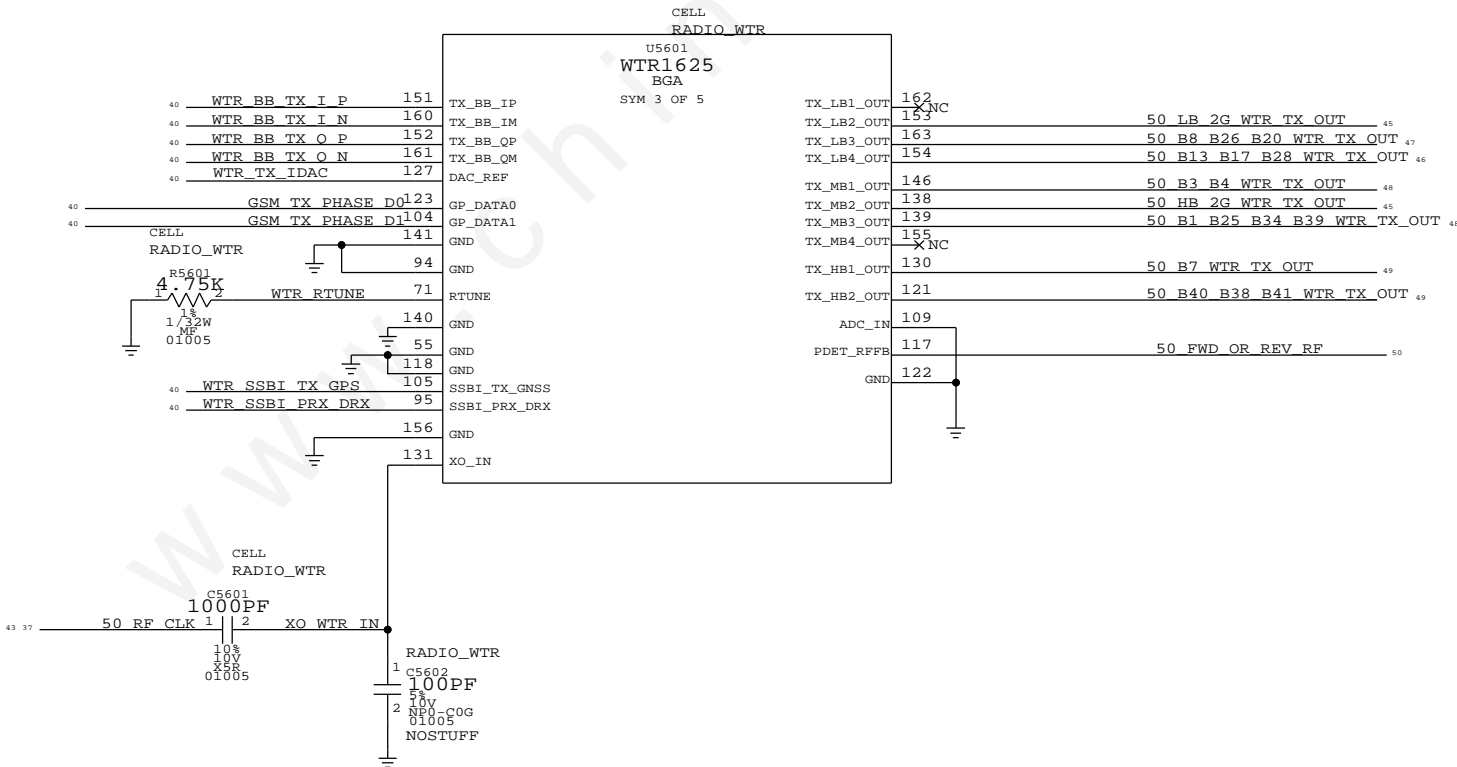
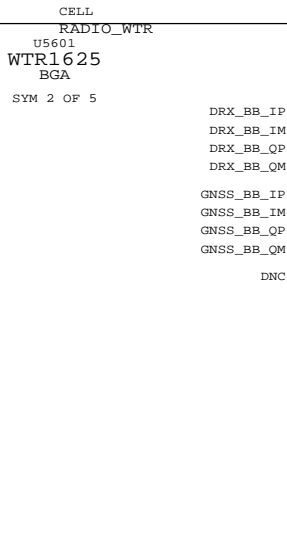
LB1	DC
LB2	DC
LB3	DC
LB4	DC
MB1	NO DC
MB2	DC
MB3	DC
HB1	NO DC
HB2	DC
HB3	DC
HMB4	NO DC

47	50 B8 PRX WTR IN	102	PRX_LB1_IN
47	50 B20 PRX WTR IN	92	PRX_LB2_IN
47	50 B26 PRX WTR IN	73	PRX_LB3_IN
46	50 B13 B17 B28 B29 PRX WTR IN	67	PRX_LB4_IN
43	50 WFR PRX LB CA IN	91	PRX_LB_CA_OUT
43	50 WFR PRX MB CA OUT	50	PRX_MB_CA_IN
50	50 B34 B39 PRX WTR IN	51	PRX_MB1_IN
52	50 DCS WTR IN	43	PRX_MB2_IN
52	50 PCS WTR IN	27	PRX_MB3_IN
51	50 B40A PRX WTR IN	19	PRX_HMB4_IN
51	50 B40B B38X PRX WTR IN	9	PRX_HB1_IN
51	50 B41A PRX WTR IN	17	PRX_HB2_IN
49	50 B7 PRX WTR IN	18	PRX_HB3_IN
		33	PRX_HB_CA_OUT
			NC




LB1	DC
LB2	DC
LB3	DC
LB4	DC
MB1	NO DC
MB2	DC
MB3	DC
HB1	NO DC
HB2	DC
HB3	DC
HMB4	NO DC

52	50 B8 B28B DRX WTR IN	5	DRX_LB1_IN
52	50 B13 B17 DRX WTR IN	15	DRX_LB2_IN
52	50 B26 B28A DRX WTR IN	16	DRX_LB3_IN
52	50 B20 B29 DRX WTR IN	7	DRX_LB4_IN
43	50 WFR DRX LB CA IN	32	DRX_LB_CA_OUT
43	50 WFR DRX MB CA OUT	29	DRX_MB_CA_IN
52	50 B34 DRX WTR IN	28	DRX_MB1_IN
52	50 B39 DRX WTR IN	20	DRX_MB2_IN
	NC	1	DRX_MB3_IN
52	50 B40 DRX WTR IN	2	DRX_HMB4_IN
52	50 B38X DRX WTR IN	4	DRX_HB1_IN
52	50 B41A DRX WTR IN	12	DRX_HB2_IN
52	50 B7 DRX WTR IN	13	DRX_HB3_IN
	NC	30	DRX_HB_CA_OUT
54	100 GPS WTR IN P	36	GNSS_RF_INP
54	100 GPS WTR IN N	44	GNSS_RF_INM



RF_CLK IS SHARED BETWEEN WTR AND WFR. LENGTH DIFFERENCE BETWEEN THE TWO SHOULD BE < 5MM.

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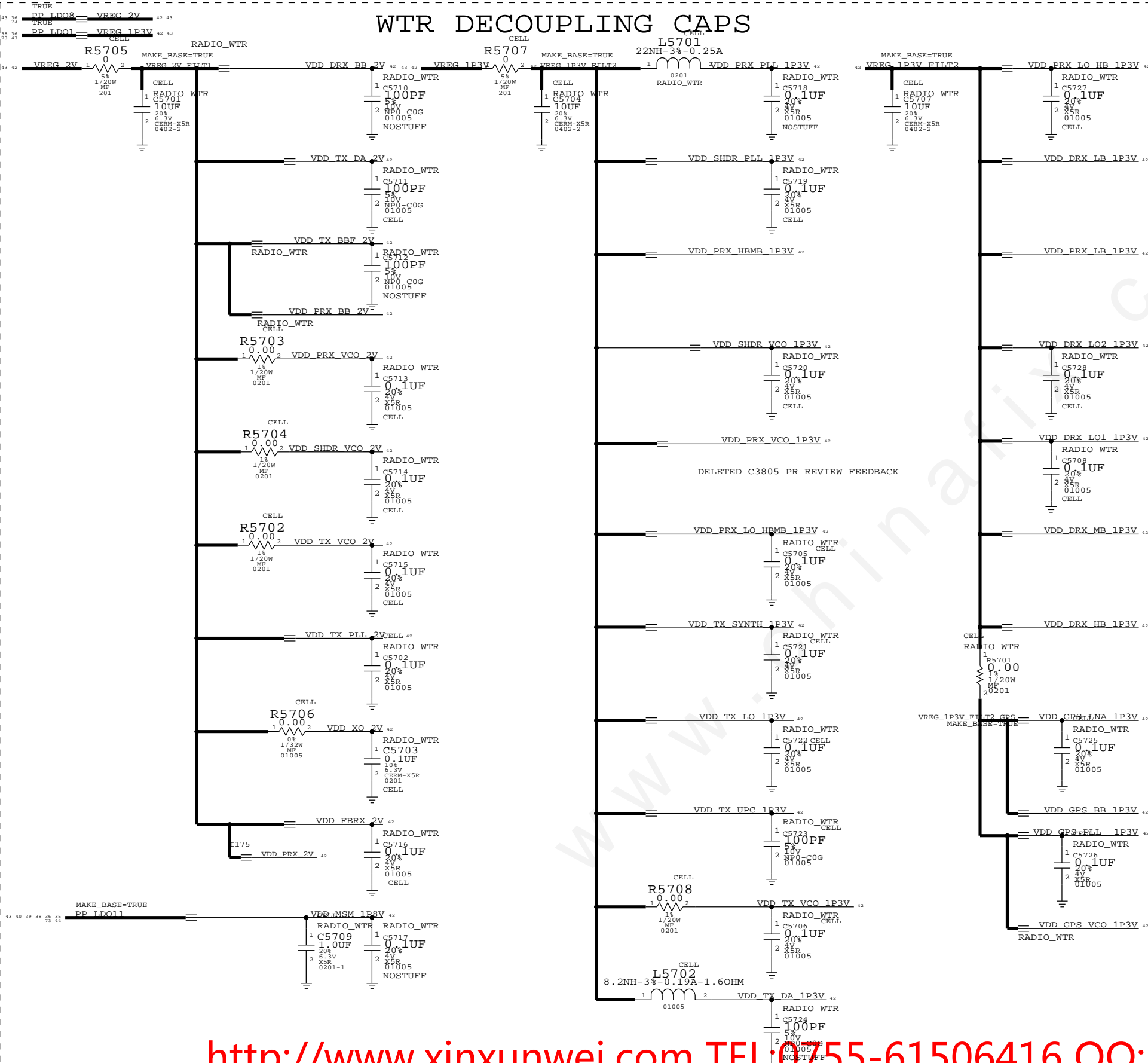
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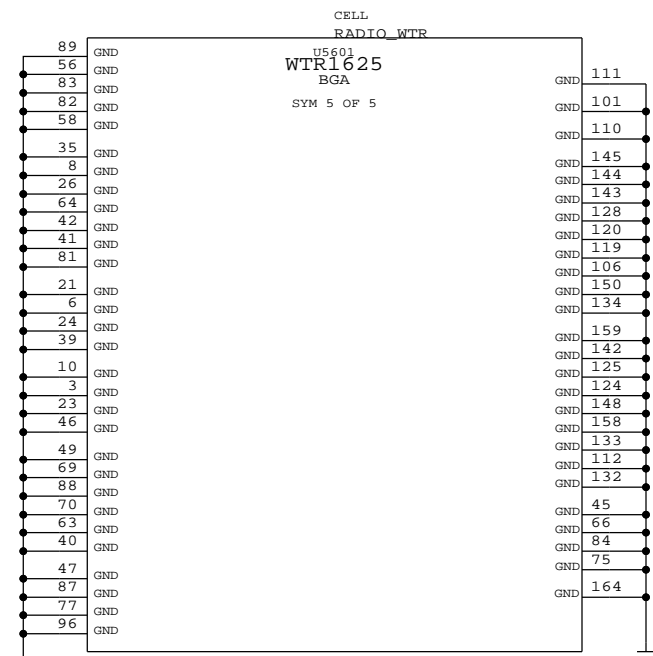
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C934
R926
L3802_RF
U902

WTR DECOUPLING CAPS



42	VDD PRX VCO 1P3V	90	VDD_RF1_P_VCO	129	VDD TX DA 2V	42
42	VDD PRX VCO 2V	80	VDD_RF2_P_VCO	137	VDD TX DA 1P3V	42
42	VDD PRX LO HB 1P3V	25	VDD_RF1_P_HB_LO	136	VDD TX UPC 1P3V	42
42	VDD PRX LB 1P3V	72	VDD_RF1_P_LB	135	VDD TX LO 1P3V	42
42	VDD PRX HBMB 1P3V	34	VDD_RF1_P_HMB	126	VDD TX BBF 2V	42
42	VDD PRX LO HBMB 1P3V	57	VDD_RF1_P_HMB_LO	116	VDD FBRX 2V	42
42	VDD PRX PLL 1P3V	79	VDD_RF1_P_PLL	157	VDD TX VCO 2V	42
42	VDD PRX BB 2V	98	VDD_RF2_P_BB	149	VDD TX VCO 1P3V	42
42	VDD PRX 2V	100	VDD_RF2_P_RX	115	VDD TX SYNTH 1P3V	42
42	VDD DRX LO1 1P3V	14	VDD_RF1_D_LB_LO	114	VDD TX PLL 2V	42
42	VDD DRX LO2 1P3V	38	VDD_RF1_D_LB	52	VDD GPS LNA 1P3V	42
42	VDD DRX LB 1P3V	31	VDD_RF1_D_LB	74	VDD GPS VCO 1P3V	42
42	VDD DRX HB 1P3V	22	VDD_RF1_D_HB	93	VDD GPS PLL 1P3V	42
42	VDD DRX MB 1P3V	11	VDD_RF1_D_MB	59	VDD GPS BB 1P3V	42
42	VDD DRX BB 2V	54	VDD_RF2_D_BB	113	PWRTERM2GND	42
42	VDD SHDR VCO 1P3V	48	VDD_RF1_S_VCO	147	VDD XO 2V	42
42	VDD SHDR VCO 2V	62	VDD_RF2_S_VCO	103	VDD MSM 1P8V	42
42	VDD SHDR PLL 1P3V	78	VDD_RF1_S_PLL			



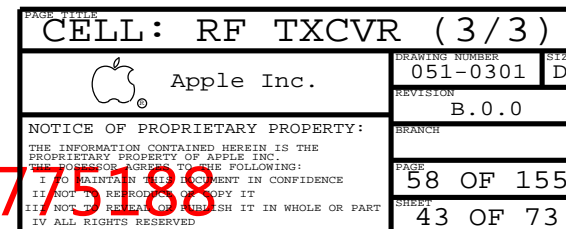
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C1019
R1016
L1000
U1002

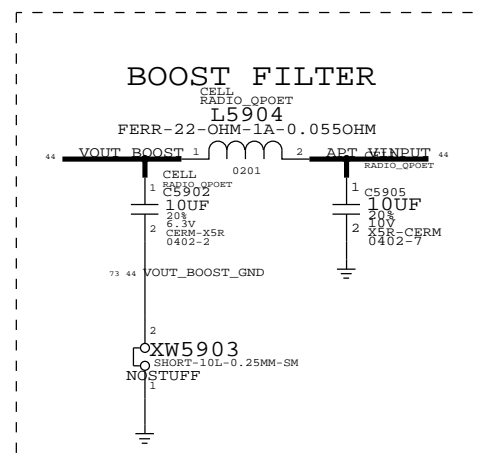
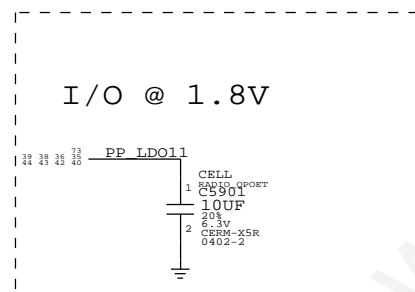
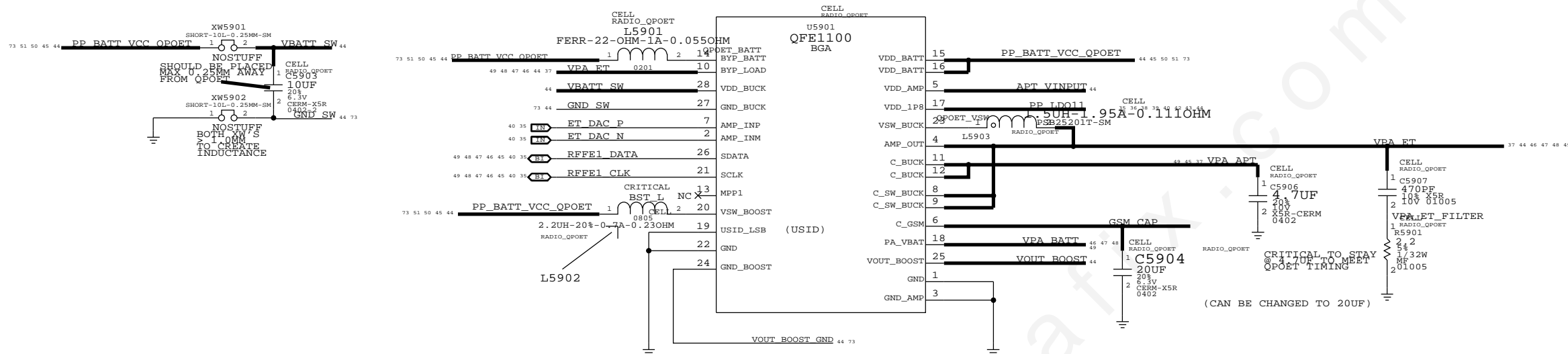


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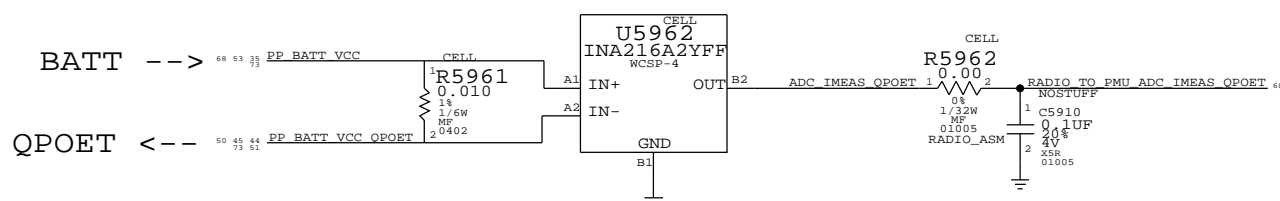



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C1110
R1102
L1104
U1101



PP_VCC_MAIN CURRENT SENSE



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		SHEET	44 OF 73

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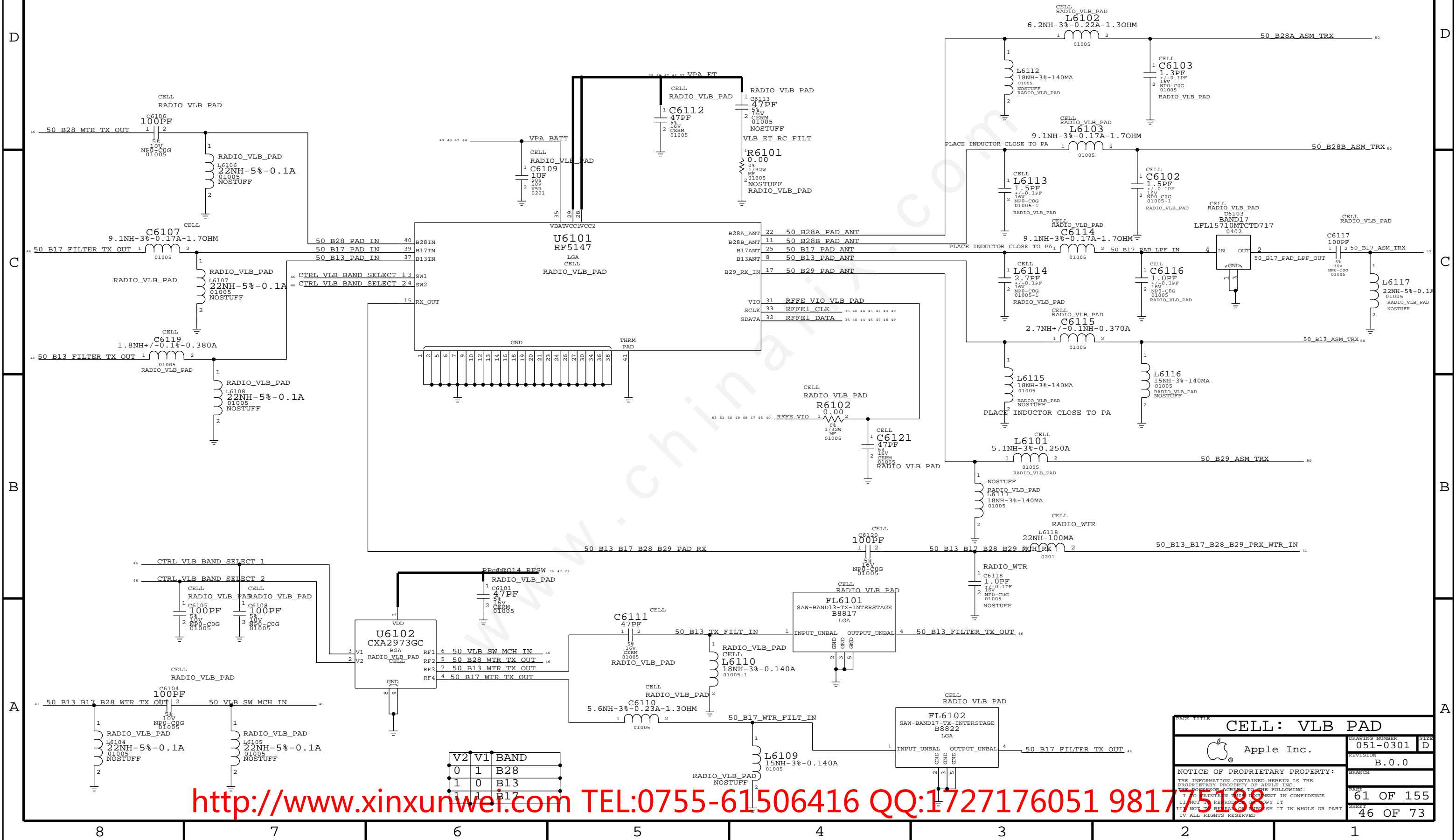
C1208
R1200
L1204
U1201




VERY LOW BAND PAD (B13, B17, B28)

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C1332
R1300
L4215_RF
U1304



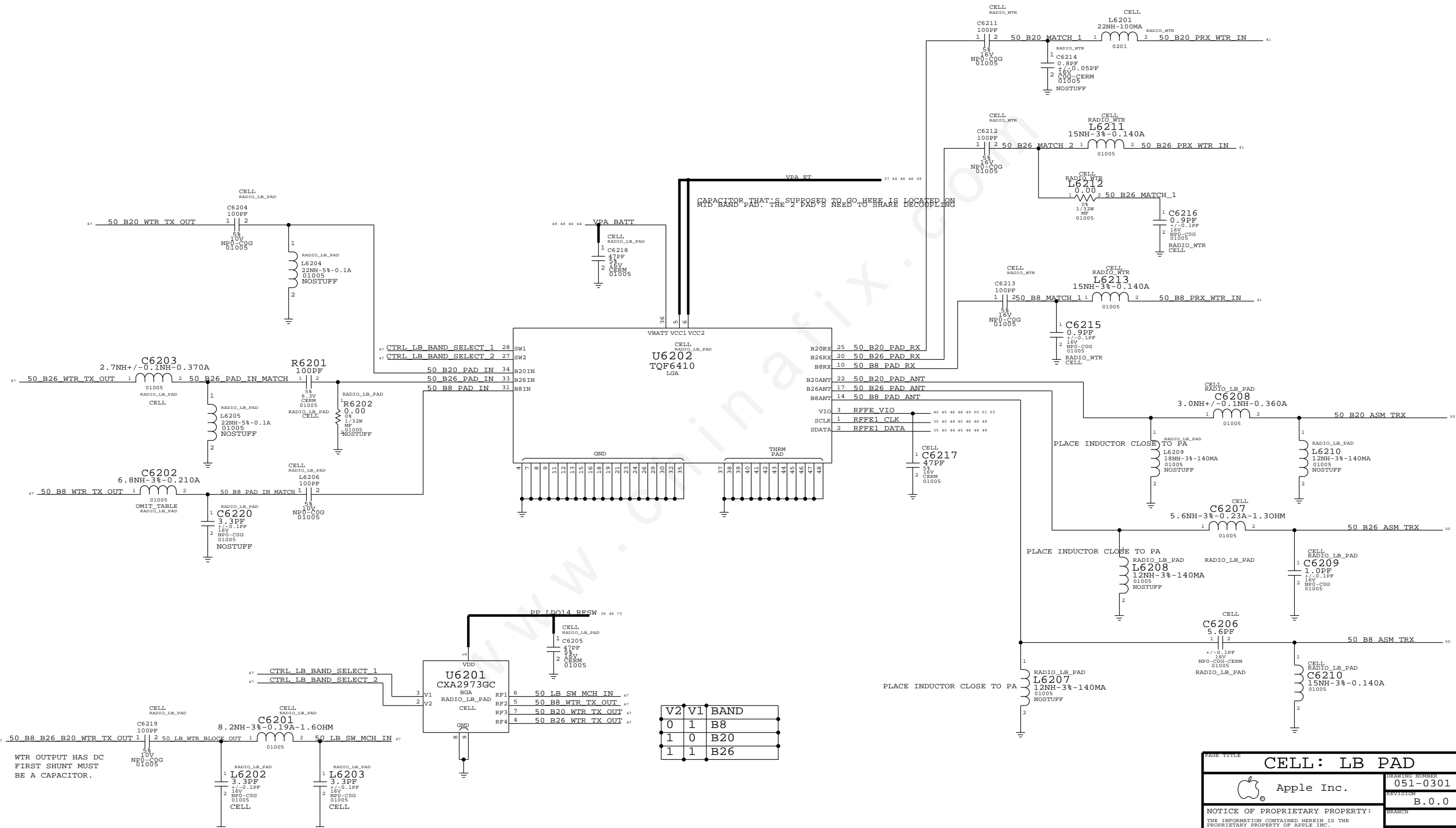
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LOW BAND PAD (B8, B26, B20)

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C4317_RF
R1400
L4316_RF
U1402



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		PAGE
		62 OF 155
		SHEET
		47 OF 73



C

B

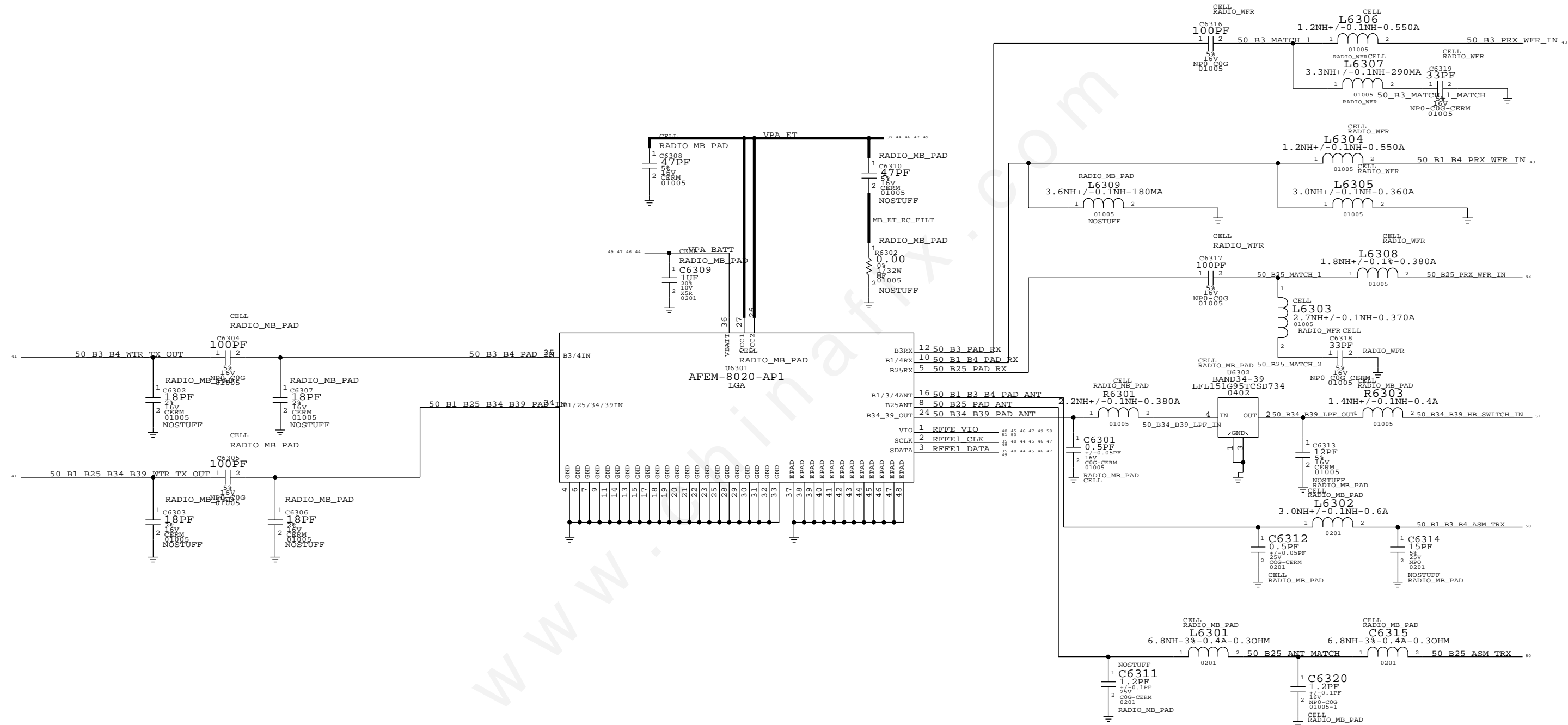
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C

B

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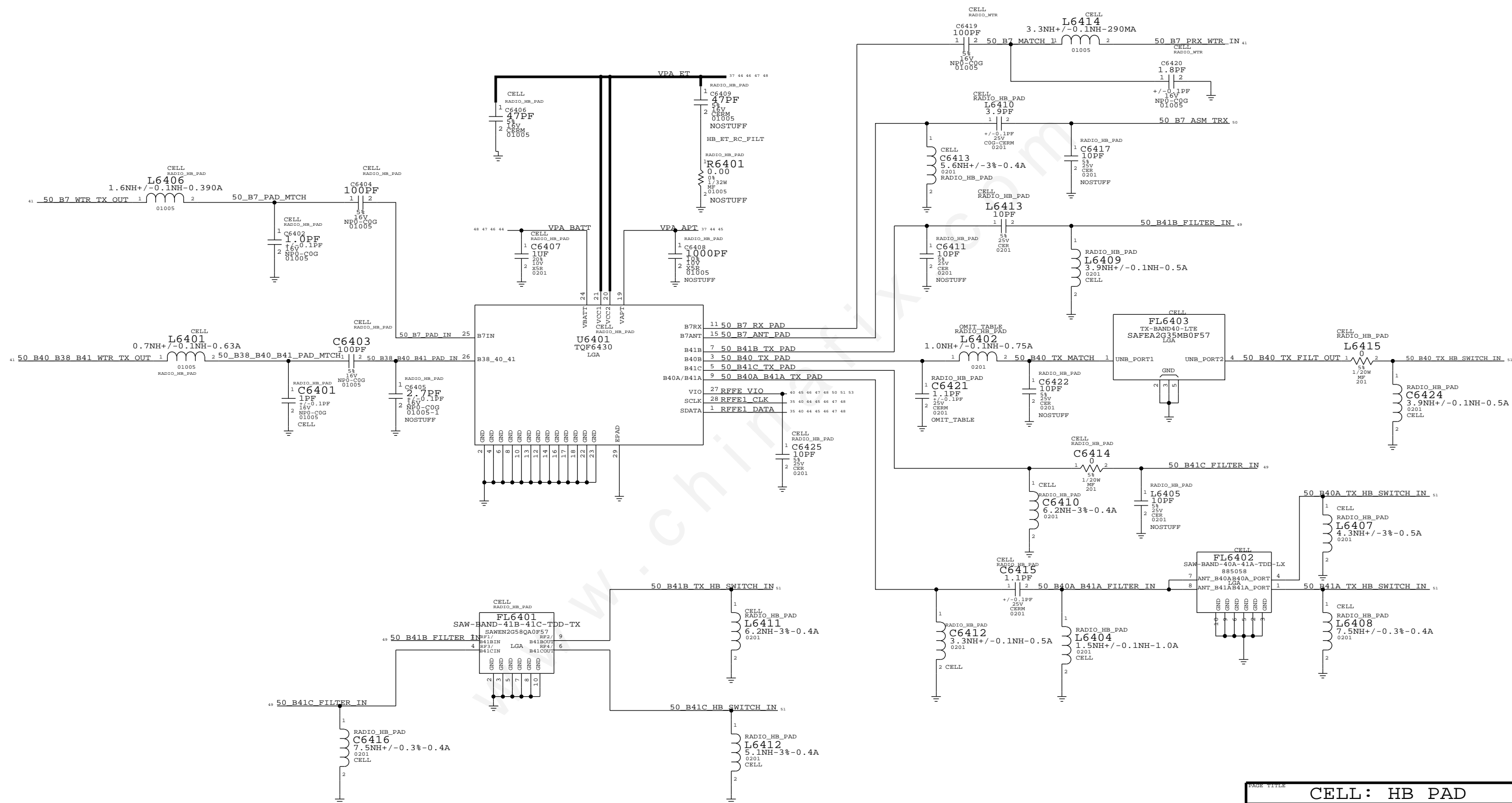
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R1500	CHINA
L4409_RF	
U1501	


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		BRANCH	
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C1614
R1600
L1616
U1601



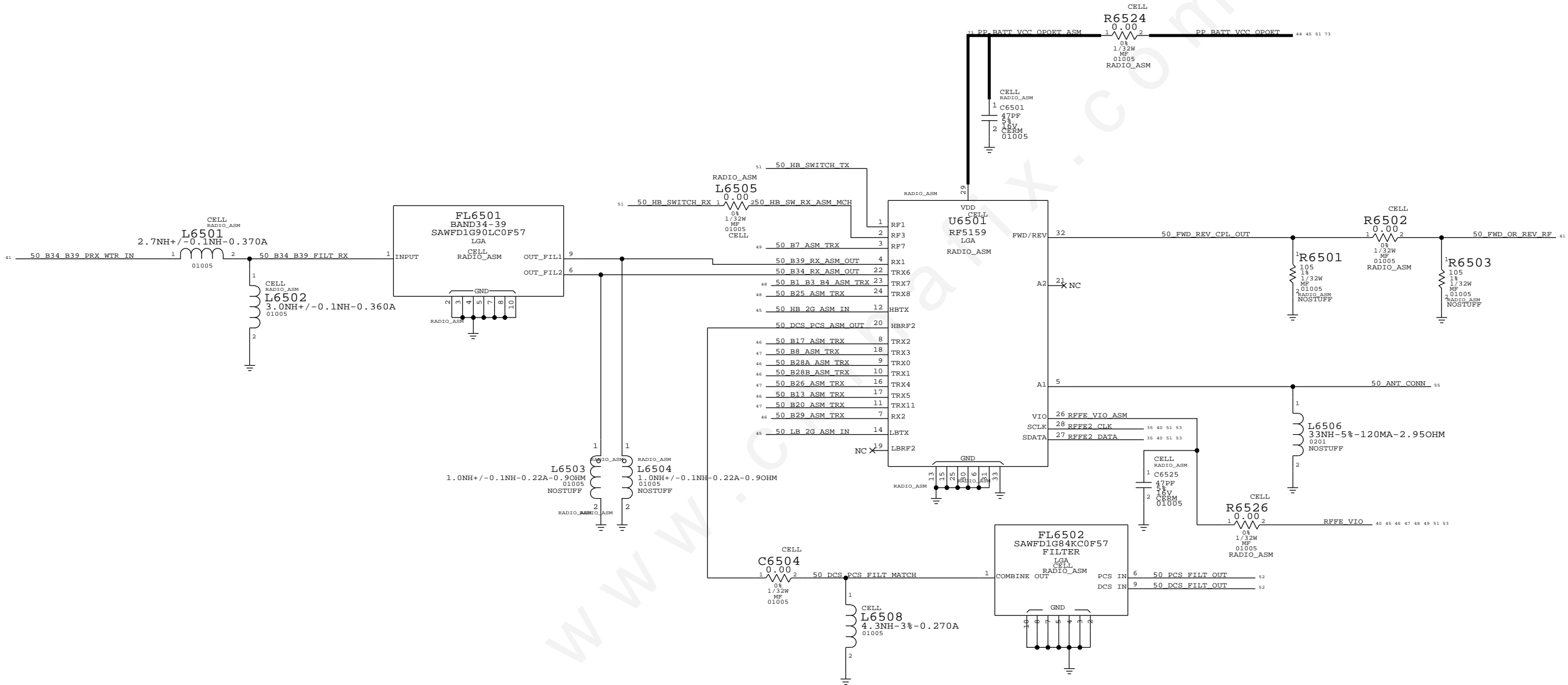
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	BRAINCH	
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ANTENNA SWITCH

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C1702
R1700
L4608_RF
U1702



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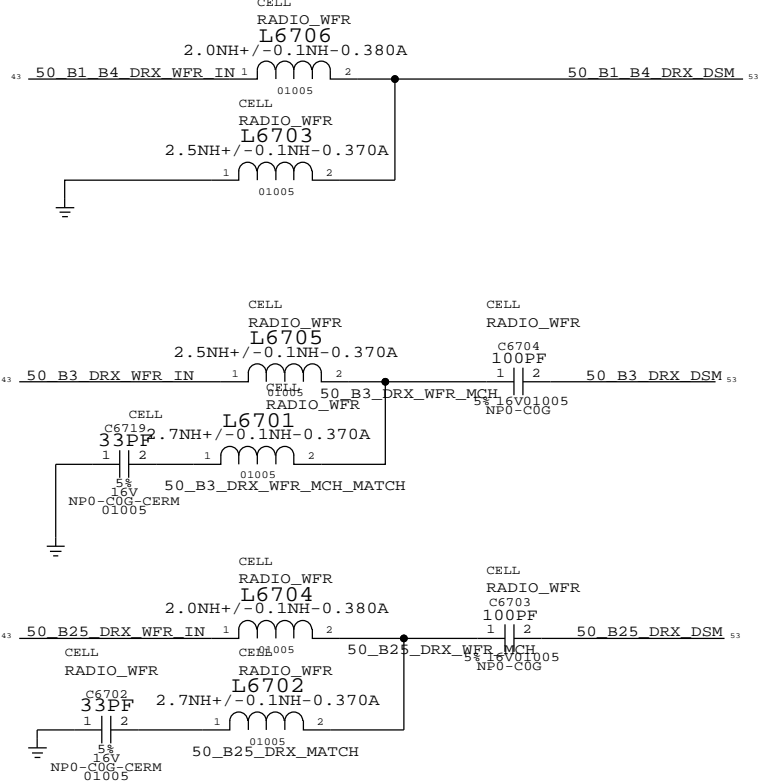
RX DIVERSITY (1 OF 2)

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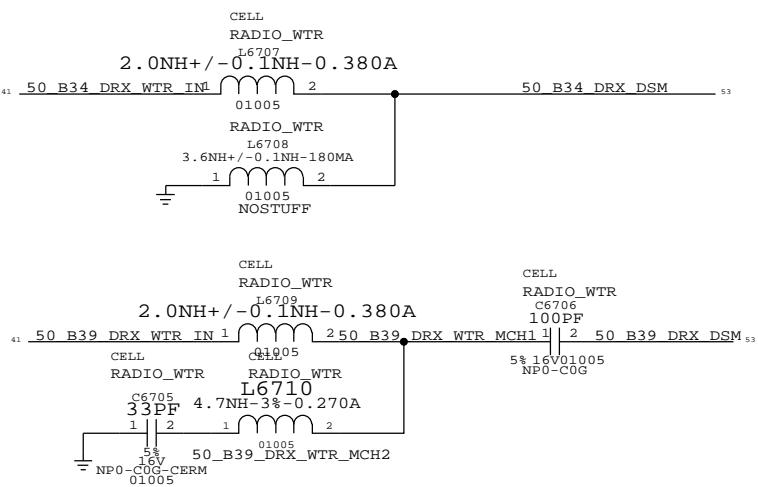
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R1800
L1829
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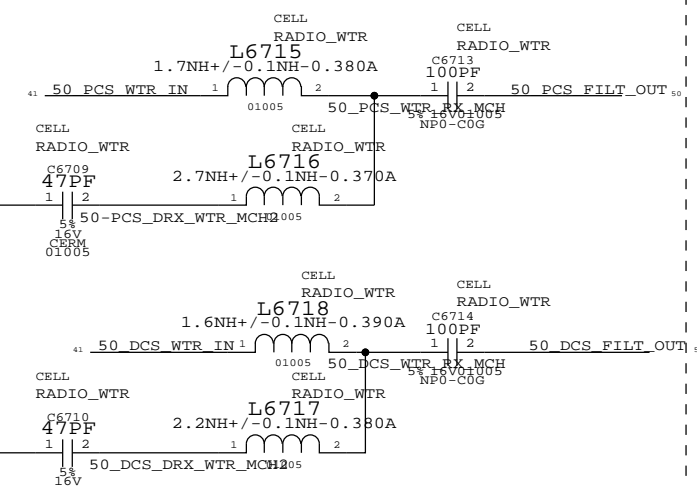
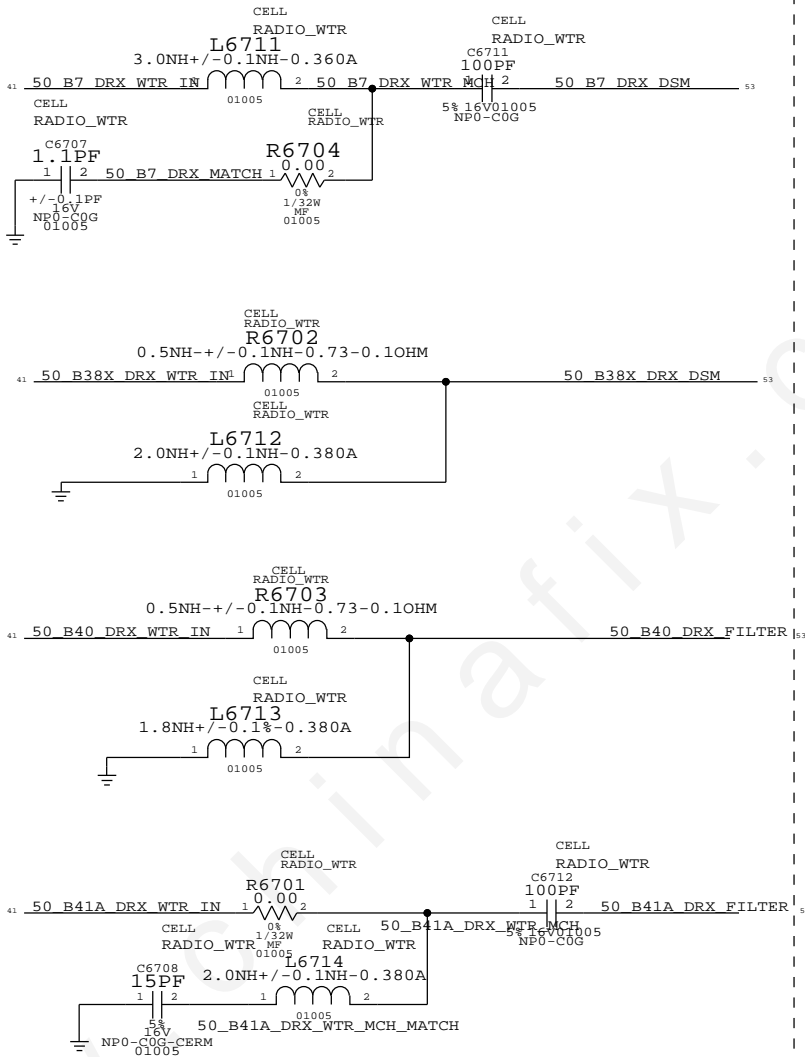
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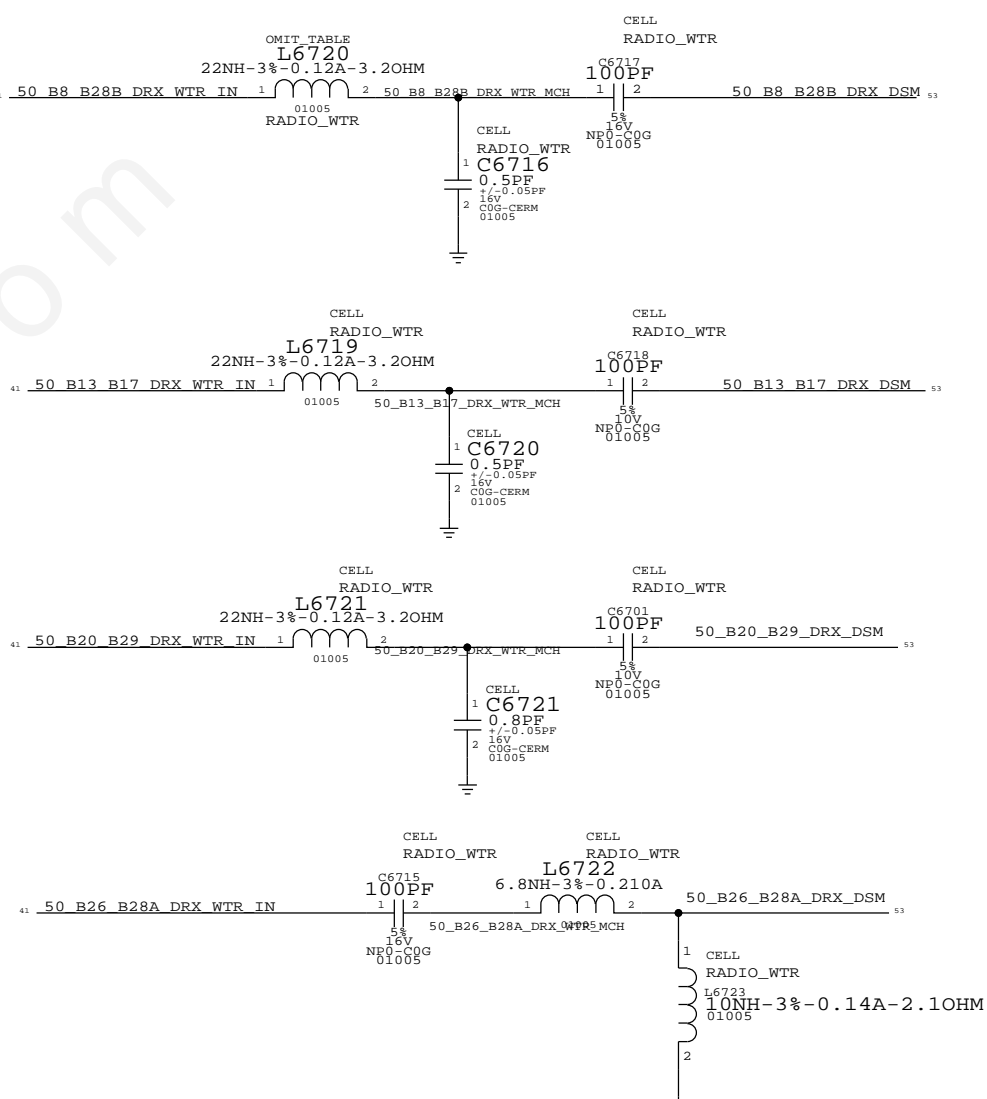
MIDBAND DIVERSITY - WTR



HIGHBAND DIVERSITY - WTR



LOWBAND DIVERSITY - WTR



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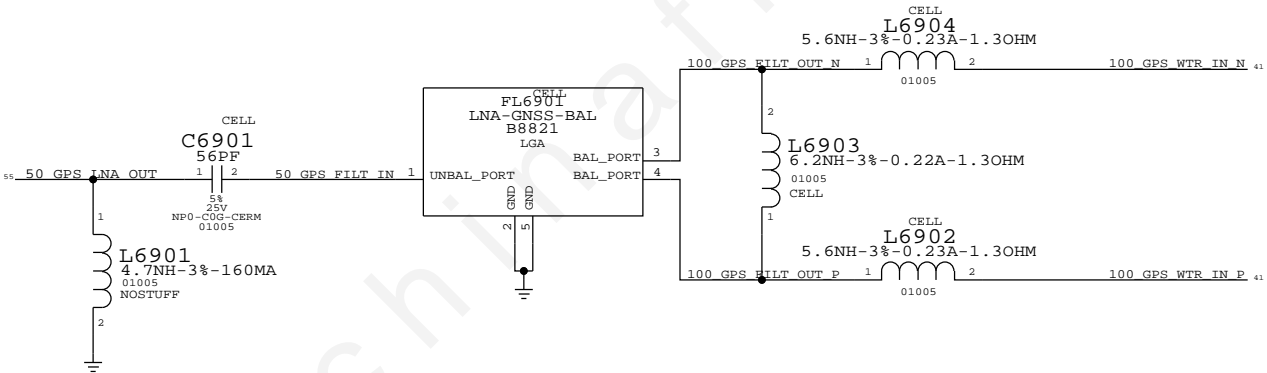
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GPS

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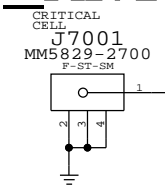


ANTENNA FEEDS AND GPS (J82)

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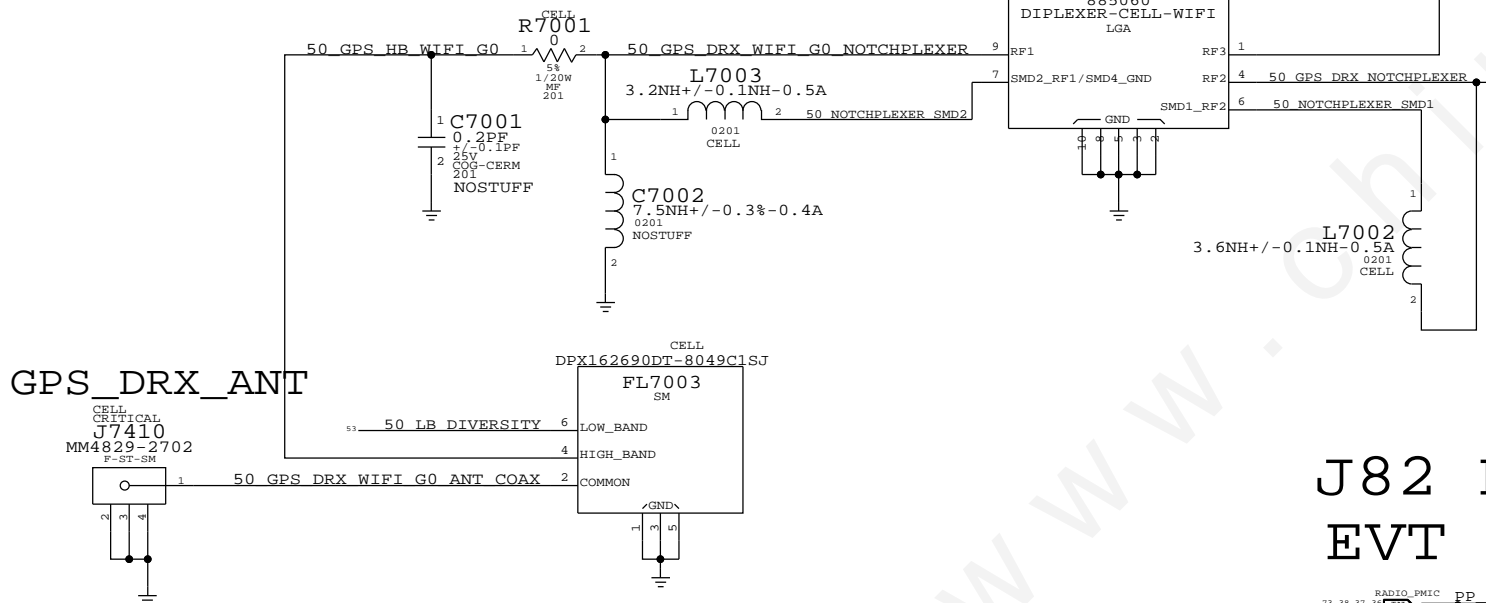
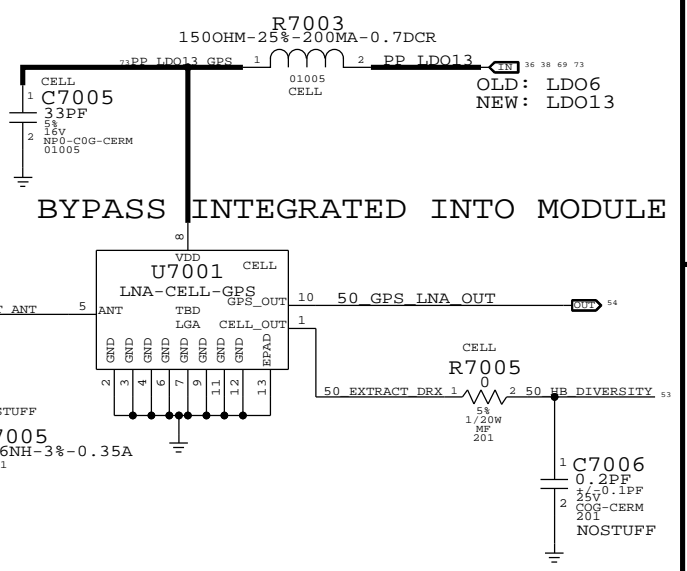
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PRI_ANT COAX



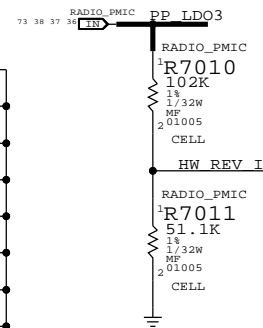
50_ANT_CONN

50_WIFI_G1



J82 HW_ID (MAPPING PG 52)
EVT

HW_REV_ID	R7010	R7011	J82 REV	J97 REV	J99 REV
0.10V	887K	51.1K	N/A	PROTO0	PROTO0
0.20V	422K	51.1K	PROTO0	PROTO0B	PROTO1
0.30V	255K	51.1K	PROTO1	PROTO1	PROTO2
0.40V	178K	51.1K	PROTO2		
0.50V	255K	100K	PRE-EVT		
0.60V	102K	51.1K	EVT		
0.70V	82.5K	51.1K	DVT		



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0565	197S0598		Y501	KDS XTAL, 19.2MHZ
197S0593	197S0598		Y501	NDK XTAL, 19.2MHZ

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CELL: ANT FEEDS & GPS (J82)

DRAWING NUMBER: 051-0301
REVISION: B.0.0
PAGE: 70 OF 155
SHEET: 55 OF 73

SYNC DATE=09/29/2014

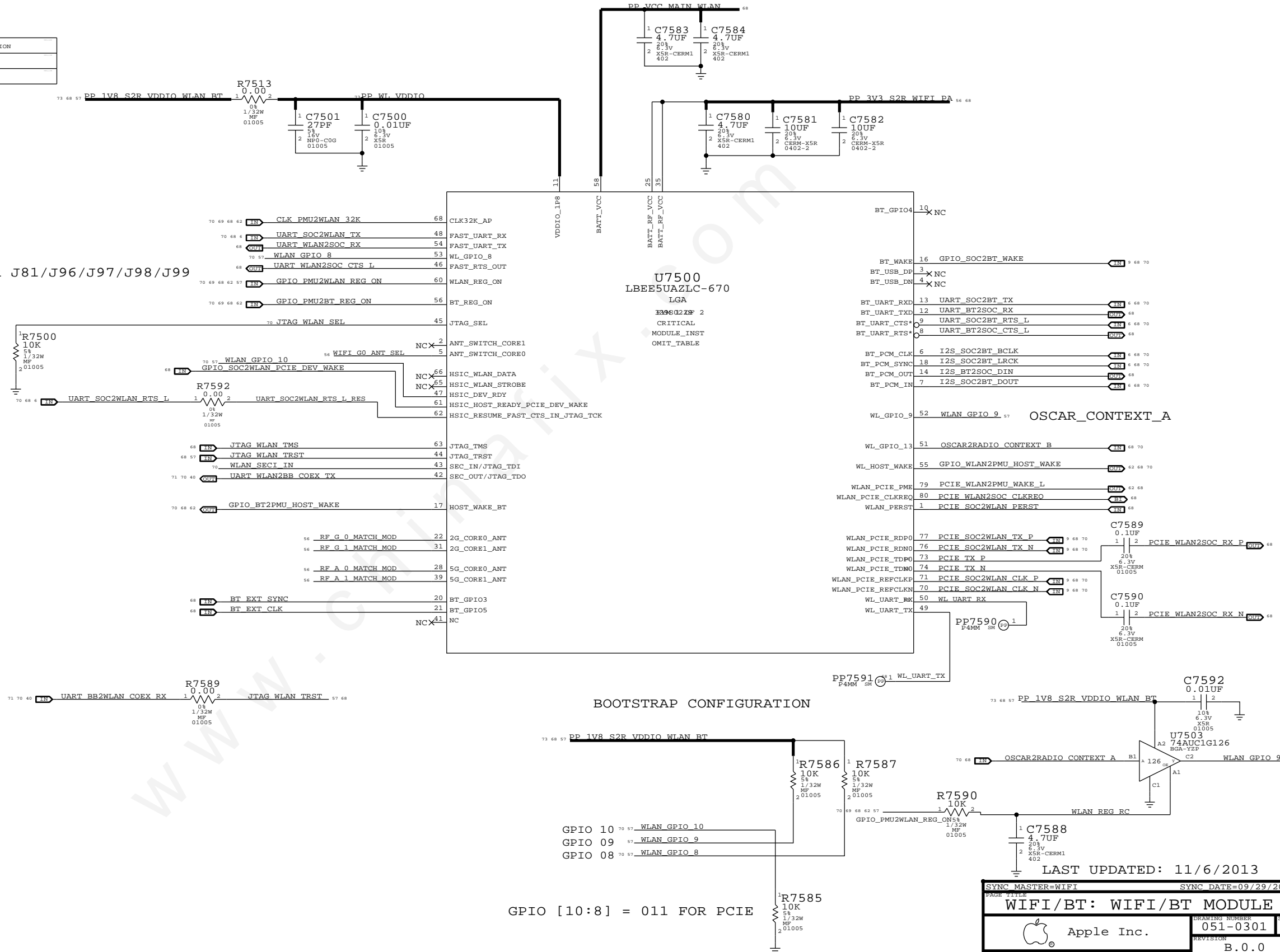
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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S0250	339S0251	MLB_A	U7500	STELLA CIDRE ALT
339S0229	339S0241	MLB_B	U7500	STELLA ALT



C



GPIO [10:8] = 011 FOR PCIE

LAST UPDATED: 11/6/2013

SYNC MASTER=WIFI SYNC DATE=09/29/2014

WIFI/BT: WIFI/BT MODULE

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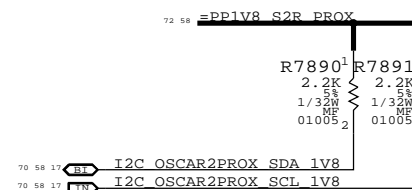
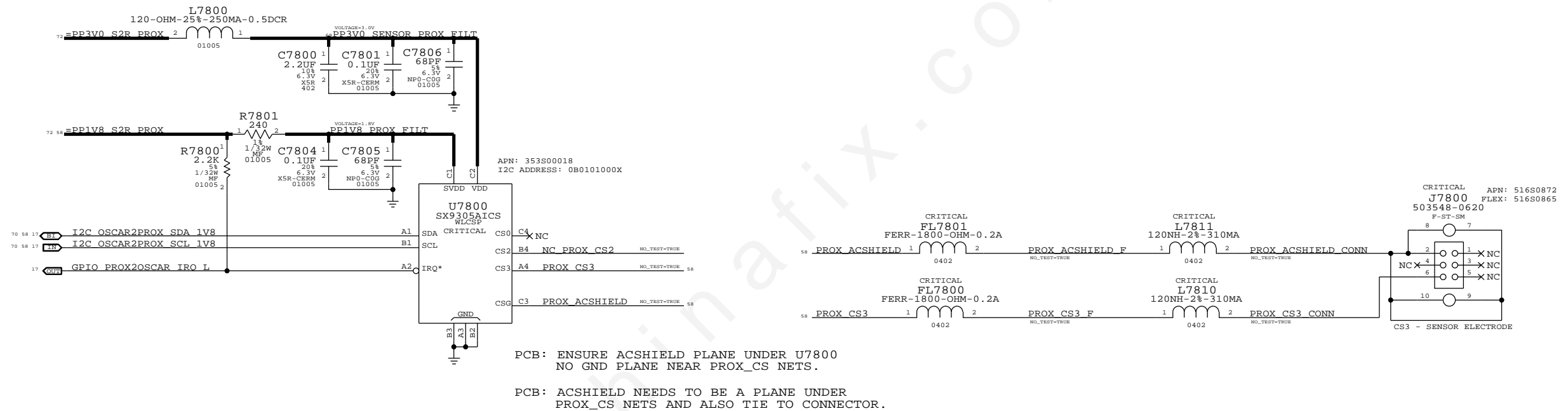
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PAGE
75

75
SHEET

57

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SYNCH MASTER-N/A		SYNCH DATE-N/A	
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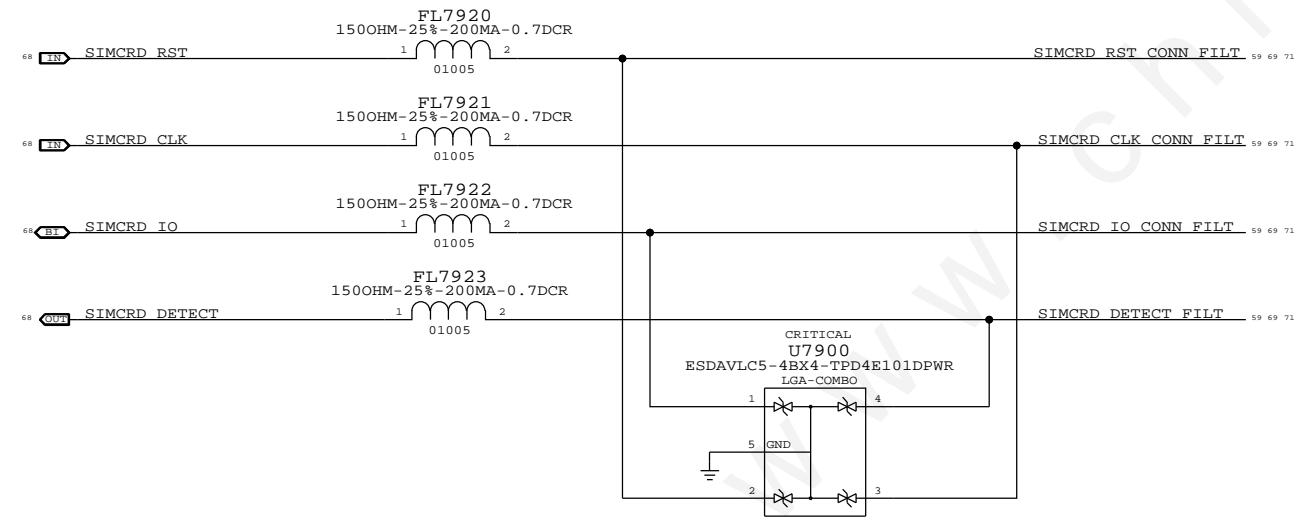
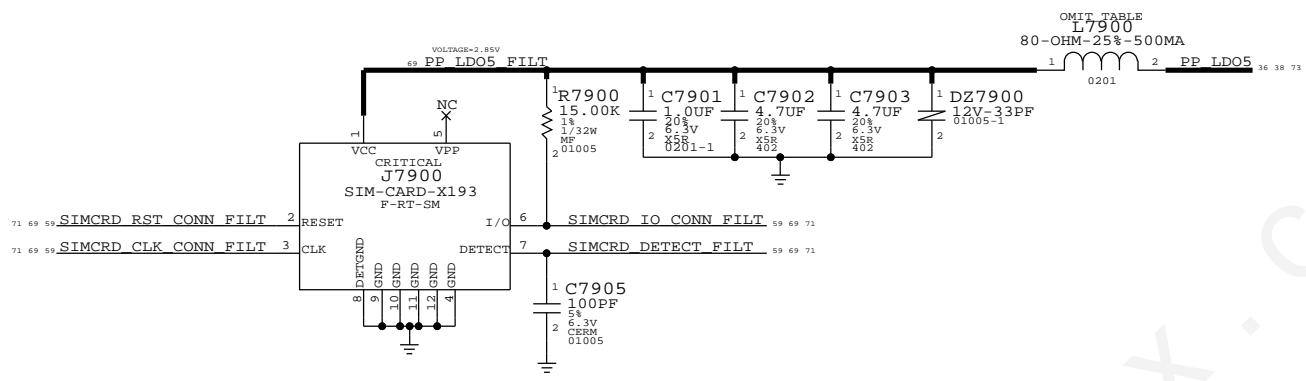
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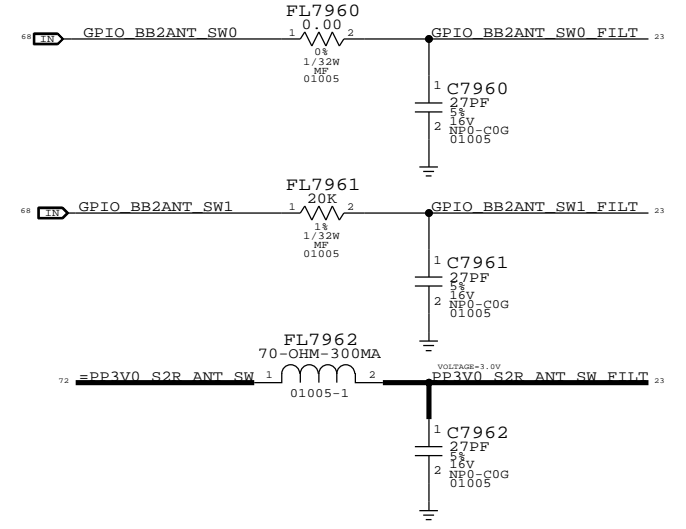
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SIM CARD AND ANTENNA SWITCH FILTERS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
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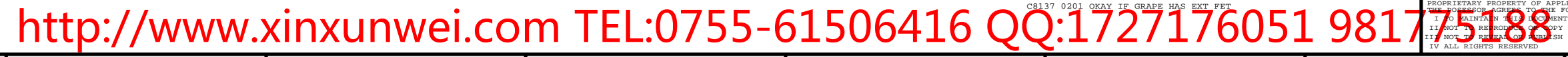


ANTENNA SWITCH FILTERS



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D

D

C

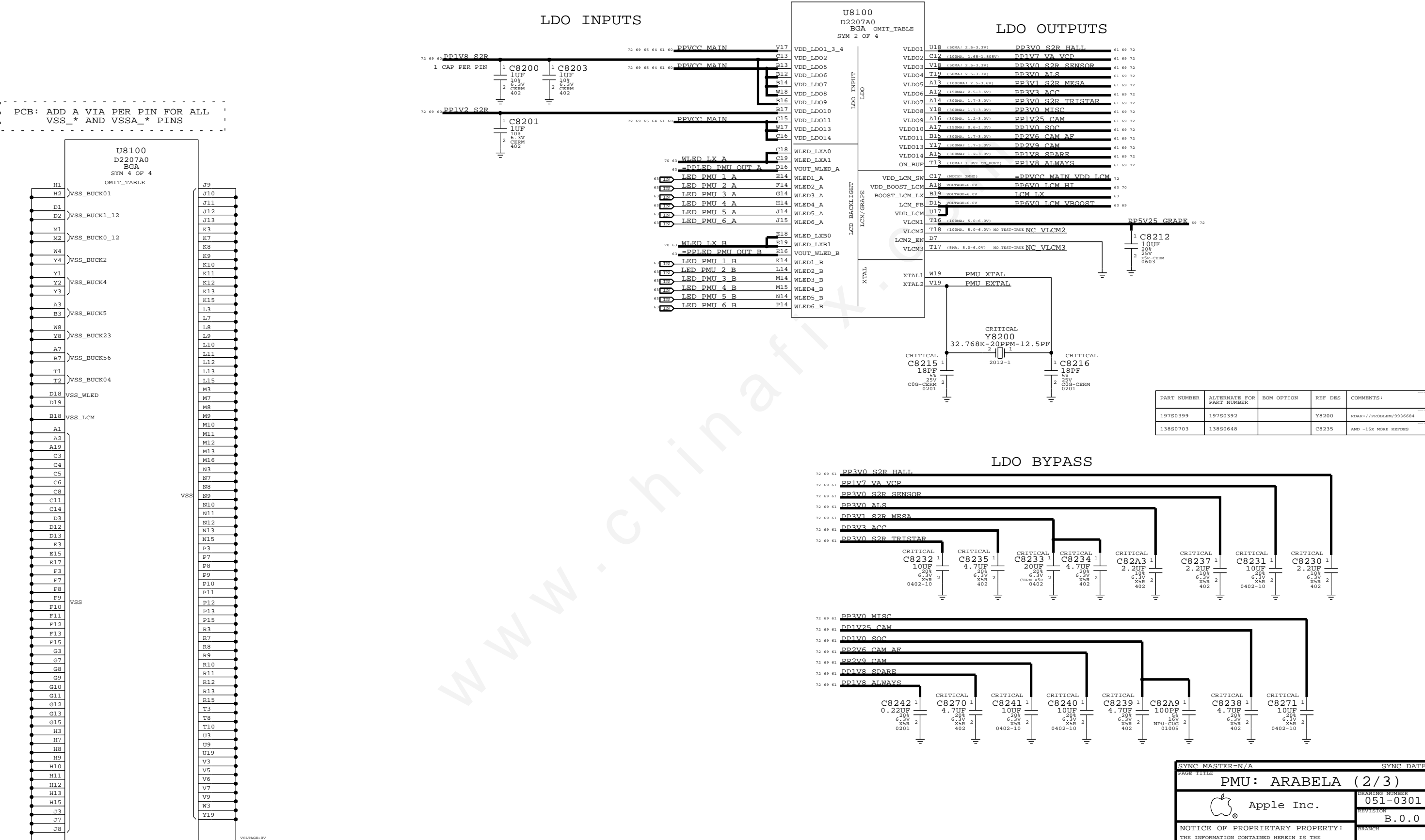
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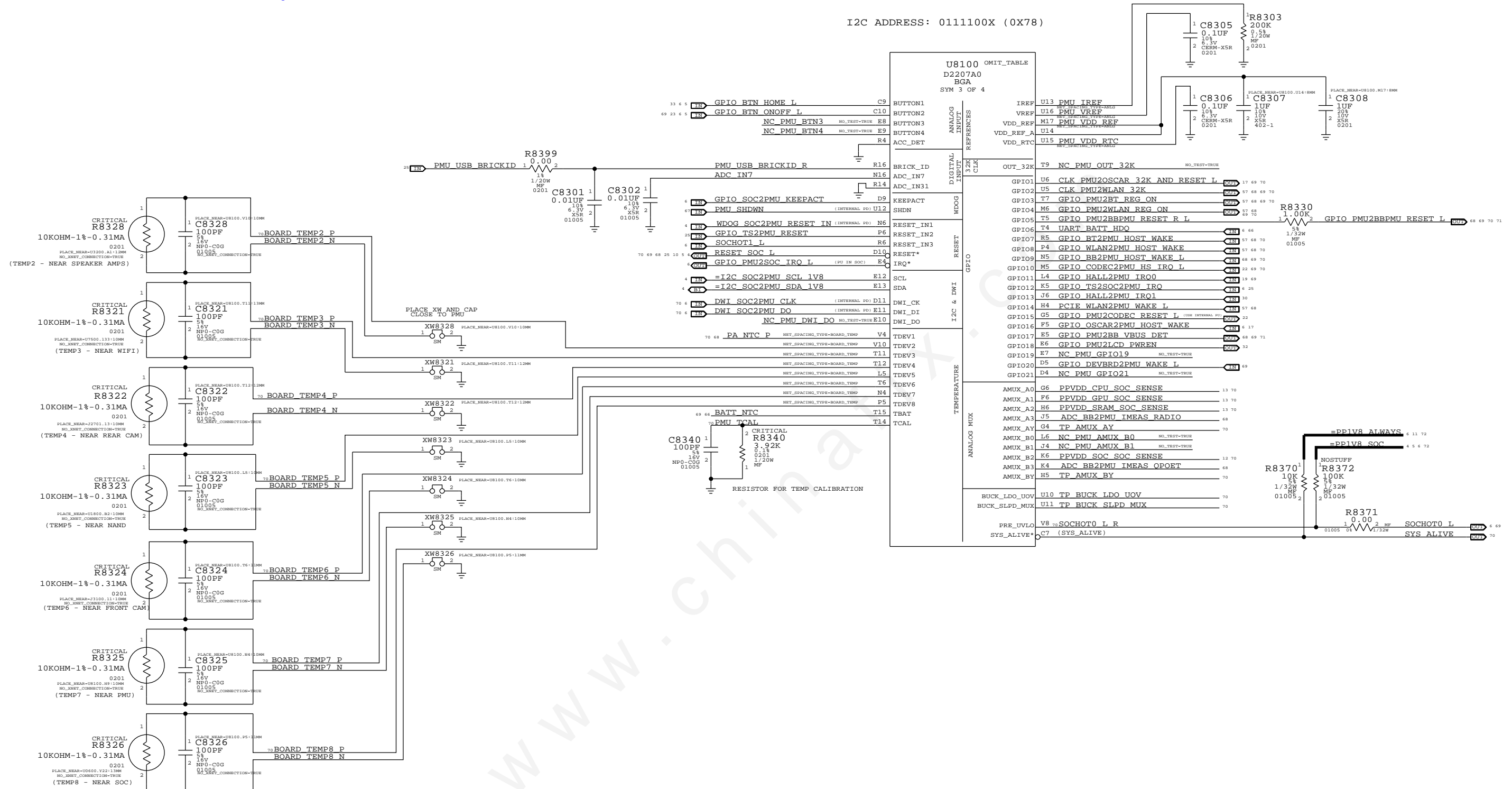
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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0706	138S0739		C8308	
118S0764	118S0717		R8340	RDAR://PROBLEM/8380367
107S0150	107S0208		R8321-R8328	RDAR://PROBLEM/8380367

SYNC MASTER=N/A		SYNC DATE=N/A	
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PMU: ARABELA (3/3)			
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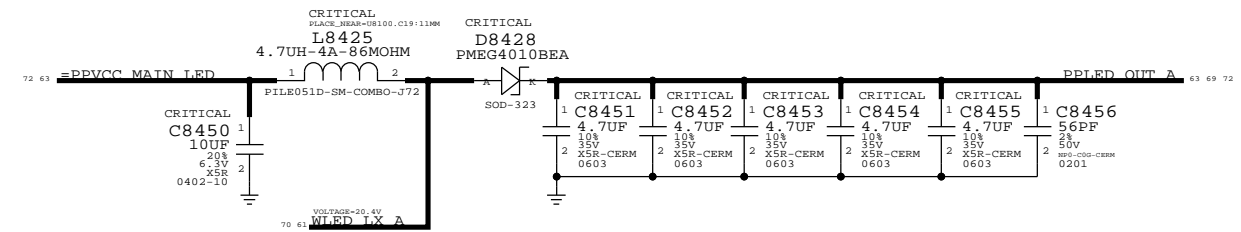
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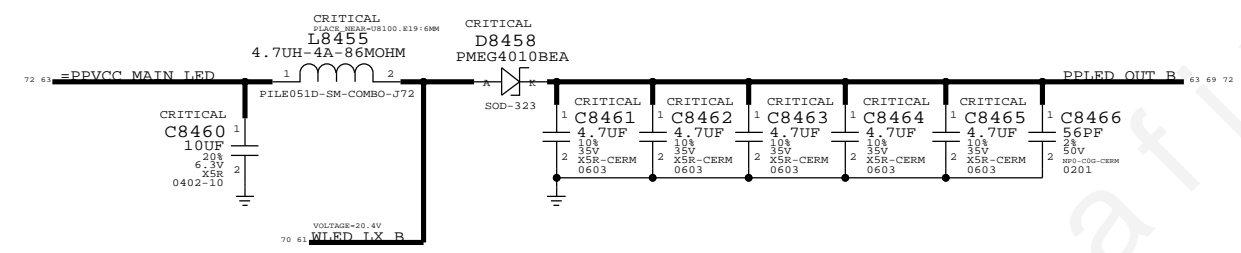
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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS
152S1837	152S1789		L8425, L8455	EDAR: / / PROBLEM / 13487208

BACKLIGHT CIRCUIT MOVED HERE TO PERMIT SYNCING WITH DESIGNS USING BEACON

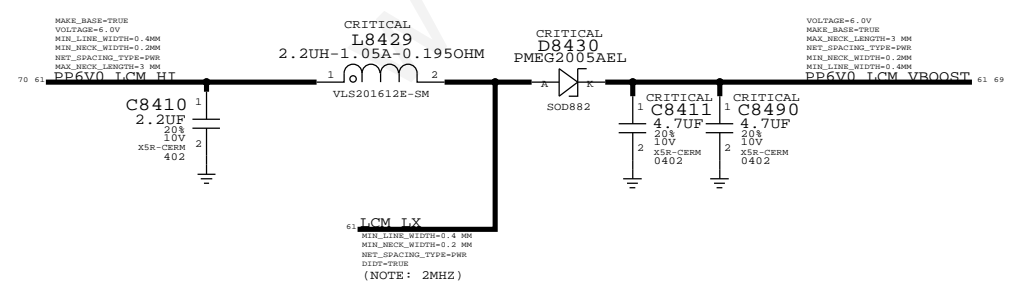


PPLED OUT A	MAKE_BASE=TRUE	=PPLED PMU OUT A
LED TO 1 A	MAKE_BASE=TRUE	LED PMU 1 A
LED TO 2 A	MAKE_BASE=TRUE	LED PMU 2 A
LED TO 3 A	MAKE_BASE=TRUE	LED PMU 3 A
LED TO 4 A	MAKE_BASE=TRUE	LED PMU 4 A
LED TO 5 A	MAKE_BASE=TRUE	LED PMU 5 A
LED TO 6 A	MAKE_BASE=TRUE	LED PMU 6 A



PPLED OUT B	MAKE_BASE=TRUE	=PPLED PMU OUT B
LED TO 1 B	MAKE_BASE=TRUE	LED PMU 1 B
LED TO 2 B	MAKE_BASE=TRUE	LED PMU 2 B
LED TO 3 B	MAKE_BASE=TRUE	LED PMU 3 B
LED TO 4 B	MAKE_BASE=TRUE	LED PMU 4 B
LED TO 5 B	MAKE_BASE=TRUE	LED PMU 5 B
LED TO 6 B	MAKE_BASE=TRUE	LED PMU 6 B

LCM BOOST MOVED HERE TO PERMIT SYNCING WITH DESIGNS USING KONA

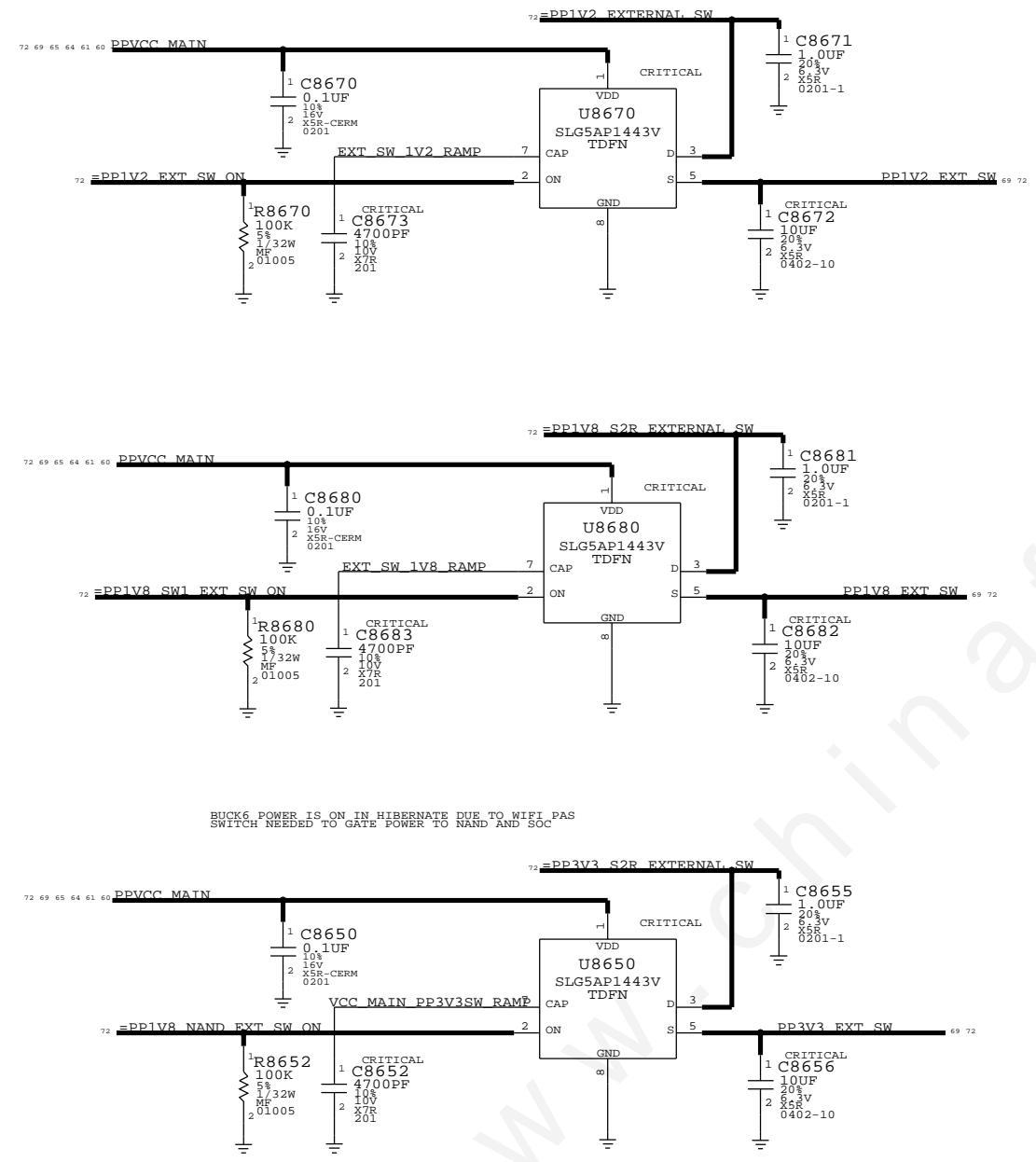


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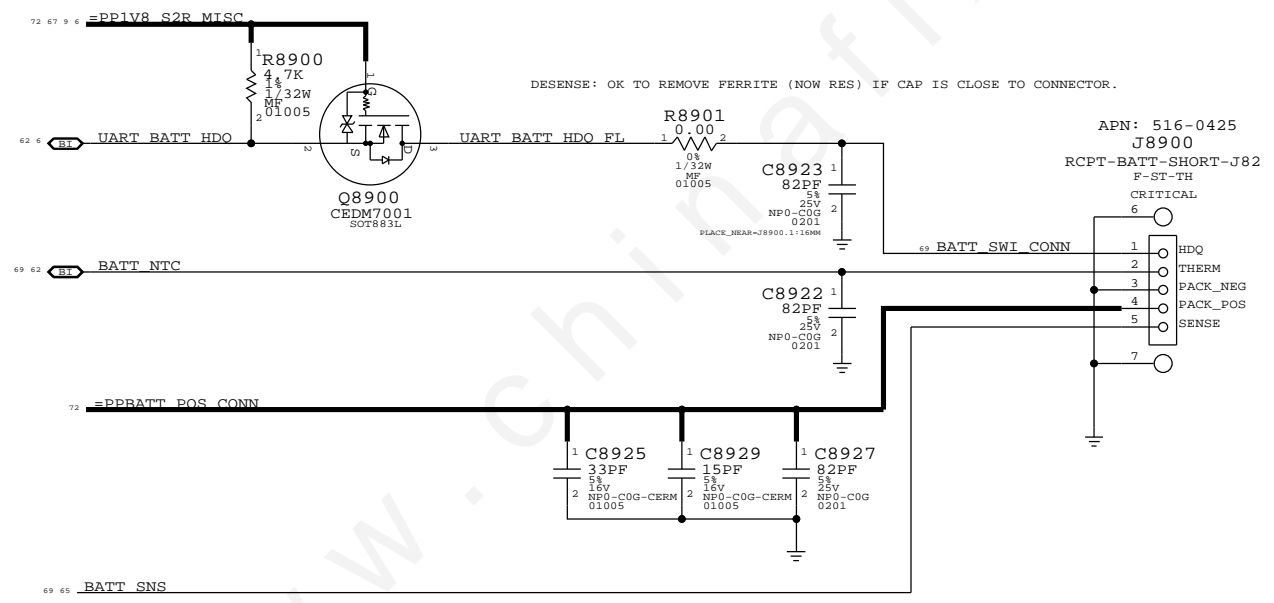
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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
15580644	15580823		FL8900	EDASH//PROBLEM11282301

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DEBUG RESET ACCESS



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CELLULAR AND WLAN/BT ALIASES

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BASEBAND

GPIO

71 69 6	IN	GPIO_SOC2BB_RADIO_ON_L	MAKE_BASE=TRUE	RADIO_ON_L	OUT	35 37
69 6	IN	GPIO_SOC2BB_RESET_L	MAKE_BASE=TRUE	BB_RST_L	OUT	35 37
69 6	IN	GPIO_BB2SOC_RESET_DET_L	MAKE_BASE=TRUE	BB_RESET_DET_L	IN	35 40
71 70 69 62	IN	GPIO_PMU2BBPMU_RESET_L	MAKE_BASE=TRUE	RF_PMIC_RESET_L	OUT	35 37
71 6	IN	GPIO_SOC2BB_WAKE_MODEM	MAKE_BASE=TRUE	AP_WAKE_MODEM	OUT	40
70 69 62 25 10 5 4	OUT	RESET_SOC_L	MAKE_BASE=TRUE	RESET_1V8_L	IN	35
71 6	IN	GPIO_SOC2BB_COREDUMP	MAKE_BASE=TRUE	BB_CORE_DUMP	OUT	40
71 6	IN	GPIO_BB_IPC	MAKE_BASE=TRUE	BB_IPC_GPIO	IN	40
71 6	IN	GPIO_BB2SOC_GPS_SYNC	MAKE_BASE=TRUE	BB_GPS_SYNC	IN	40
70 69 62	OUT	GPIO_BB2PMU_HOST_WAKE_L	MAKE_BASE=TRUE	BB_WAKE_HOST	IN	35 40

UART

71 25 6	OUT	UART_BB2SOC_TX	MAKE_BASE=TRUE	BB_UART_TXD	IN	35 40
71 25 6	IN	UART_SOC2BB_TX	MAKE_BASE=TRUE	BB_UART_RXD	OUT	35 40
71 6	OUT	UART_BB2SOC_RTS_L	MAKE_BASE=TRUE	BB_UART_RTS_L	IN	40
71 6	IN	UART_SOC2BB_RTS_L	MAKE_BASE=TRUE	BB_UART_CTS_L	OUT	40
71 17	IN	UART_OSCAR2BB_TX	MAKE_BASE=TRUE	BB_OTHER_RXD	OUT	40
71 17	OUT	UART_BB2OSCAR_TX	MAKE_BASE=TRUE	BB_OTHER_TXD	IN	40

HSIC

69 6	IN	HSIC_SOC2BB_HOST_RDY	MAKE_BASE=TRUE	BB_HOST_RDY	OUT	35 40
69 6	OUT	HSIC_BB2SOC_DEVICE_RDY	MAKE_BASE=TRUE	BB_DEVICE_RDY	IN	35 40
71 6	IN	HSIC_BB_DATA	MAKE_BASE=TRUE	50_BB_HSIC_DATA	IN	35 39
71 6	BT	HSIC_BB_STB	MAKE_BASE=TRUE	50_BB_HSIC_STROBE	BT	35 39

USB

71 69 62	IN	GPIO_PMU2BB_VBUS_DET	MAKE_BASE=TRUE	BB_USB_VBUS	OUT	35 39
71 21	BT	USB_BB_P	MAKE_BASE=TRUE	90_BB_USB_P	BT	35
71 21	BT	USB_BB_N	MAKE_BASE=TRUE	90_BB_USB_N	BT	35

SIM CARD

59 6	IN	SIMCRD_DETECT	MAKE_BASE=TRUE	BB_SIM_DETECT	OUT	39 40
59 6	OUT	SIMCRD_RST	MAKE_BASE=TRUE	BB_SIM_RESET	IN	40
59 6	OUT	SIMCRD_CLK	MAKE_BASE=TRUE	BB_SIM_CLK	IN	40
59 6	BT	SIMCRD_IO	MAKE_BASE=TRUE	BB_SIM_DATA	BT	40

ADC

62 6	OUT	ADC_BB2PMU_IMEAS_RADIO	MAKE_BASE=TRUE	RADIO_TO_PMU_ADC_IMEAS_RADIO	IN	35
62 6	OUT	ADC_BB2PMU_IMEAS_OPOET	MAKE_BASE=TRUE	RADIO_TO_PMU_ADC_IMEAS_OPOET	IN	44

POWER

72	=PPBATT_VCC_BB	=	PP_BATT_VCC	35 44 53 73
----	----------------	---	-------------	-------------

LOWER ANT CTRL

59 6	OUT	GPIO_BB2ANT_SW0	MAKE_BASE=TRUE	BB_ANTSW_GPIO0	IN	40
59 6	OUT	GPIO_BB2ANT_SW1	MAKE_BASE=TRUE	BB_ANTSW_GPIO1	IN	40

WLAN/BT

GPIO

70 69 68 62 57	IN	CLK_PMU2WLAN_32K	MAKE_BASE=TRUE	CLK_PMU2WLAN_32K	OUT	57 62 68 69 70
70 69 68 62 57	IN	GPIO_PMU2BT_REG_ON	MAKE_BASE=TRUE	GPIO_PMU2BT_REG_ON	OUT	57 62 68 69 70
70 69 68 62 57	IN	GPIO_PMU2WLAN_REG_ON	MAKE_BASE=TRUE	GPIO_PMU2WLAN_REG_ON	OUT	57 62 68 69 70
70 68 57 9	IN	GPIO_SOC2BT_WAKE	MAKE_BASE=TRUE	GPIO_SOC2BT_WAKE	OUT	9 57 68 70
70 9	IN	GPIO_SOC2WLAN_WAKE	MAKE_BASE=TRUE	GPIO_SOC2WLAN_PCIE_DEV_WAKE	OUT	57
70 68 62 57	OUT	GPIO_BT2PMU_HOST_WAKE	MAKE_BASE=TRUE	GPIO_BT2PMU_HOST_WAKE	IN	57 62 68 70
70 68 62 57	OUT	GPIO_WLAN2PMU_HOST_WAKE	MAKE_BASE=TRUE	GPIO_WLAN2PMU_HOST_WAKE	IN	57 62 68 70

PCIE

70 9	IN	PCIE_SOC2WLAN_RESET_L	MAKE_BASE=TRUE	PCIE_SOC2WLAN_PERST	OUT	57
70 9	IN	PCIE_WLAN2SOC_CLKREQ_L	MAKE_BASE=TRUE	PCIE_WLAN2SOC_CLKREQ	IN	57
68 62 57	OUT	PCIE_WLAN2PMU_WAKE_L	MAKE_BASE=TRUE	PCIE_WLAN2PMU_WAKE_L	IN	57 62 68
70 68 57 9	IN	PCIE_SOC2WLAN_CLK_P	MAKE_BASE=TRUE	PCIE_SOC2WLAN_CLK_P	OUT	9 57 68 70
70 68 57 9	IN	PCIE_SOC2WLAN_CLK_N	MAKE_BASE=TRUE	PCIE_SOC2WLAN_CLK_N	OUT	9 57 68 70
70 68 57 9	IN	PCIE_SOC2WLAN_TX_P	MAKE_BASE=TRUE	PCIE_SOC2WLAN_TX_P	OUT	9 57 68 70
70 68 57 9	IN	PCIE_SOC2WLAN_TX_N	MAKE_BASE=TRUE	PCIE_SOC2WLAN_TX_N	OUT	9 57 68 70
70 9	OUT	PCIE_WLAN2SOC_TX_P	MAKE_BASE=TRUE	PCIE_WLAN2SOC_RX_P	IN	57
70 9	OUT	PCIE_WLAN2SOC_TX_N	MAKE_BASE=TRUE	PCIE_WLAN2SOC_RX_N	IN	57
70 9	OUT	PCIE_WLAN2SOC_TX_C_P	MAKE_BASE=TRUE	PCIE_TX_P	IN	57
70 9	OUT	PCIE_WLAN2SOC_TX_C_N	MAKE_BASE=TRUE	PCIE_TX_N	IN	57

TO KEEP PP NAMING CONSISTENT

UART

70 68 57 6	IN	UART_SOC2BT_TX	MAKE_BASE=TRUE	UART_SOC2BT_TX	OUT	6 57 68 70
70 68 57 6	IN	UART_SOC2BT_RTS_L	MAKE_BASE=TRUE	UART_SOC2BT_RTS_L	OUT	6 57 68 70
70 6	IN	UART_BT2SOC_TX	MAKE_BASE=TRUE	UART_BT2SOC_RX	IN	57
70 6	OUT	UART_BT2SOC_RTS_L	MAKE_BASE=TRUE	UART_BT2SOC_CTS_L	IN	57
70 68 57 6	IN	UART_SOC2WLAN_TX	MAKE_BASE=TRUE	UART_SOC2WLAN_TX	OUT	6 57 68 70
70 68 57 6	IN	UART_SOC2WLAN_RTS_L	MAKE_BASE=TRUE	UART_SOC2WLAN_RTS_L	OUT	6 57 68 70
70 6	OUT	UART_WLAN2SOC_TX	MAKE_BASE=TRUE	UART_WLAN2SOC_RX	IN	57
70 6	OUT	UART_WLAN2SOC_RTS_L	MAKE_BASE=TRUE	UART_WLAN2SOC_CTS_L	IN	57

RESOLVES CKPLUS ERROR IN NAME

57	TP_WL_UART_RX	MAKE_BASE=TRUE	WL_UART_RX	57
57	TP_WL_UART_TX	MAKE_BASE=TRUE	WL_UART_TX	57

I2S

70 6	OUT	I2S_BT2SOC_DOUT	MAKE_BASE=TRUE	I2S_BT2SOC_DIN	IN	57
70 68 57 6	IN	I2S_SOC2BT_DOUT	MAKE_BASE=TRUE	I2S_SOC2BT_DOUT	OUT	6 57 68 70
70 68 57 6	IN	I2S_SOC2BT_BCLK	MAKE_BASE=TRUE	I2S_SOC2BT_BCLK	OUT	6 57 68 70
70 68 57 6	IN	I2S_SOC2BT_LRCK	MAKE_BASE=TRUE	I2S_SOC2BT_LRCK	OUT	6 57 68 70

OSCAR CONTEXT

17 6	IN	GPIO_OSCAR2WLAN_CONTEXT_A	MAKE_BASE=TRUE	OSCAR2RADIO_CONTEXT_A	OUT	57 70
17 6	IN	GPIO_OSCAR2WLAN_CONTEXT_B	MAKE_BASE=TRUE	OSCAR2RADIO_CONTEXT_B	OUT	57 70

JTAG

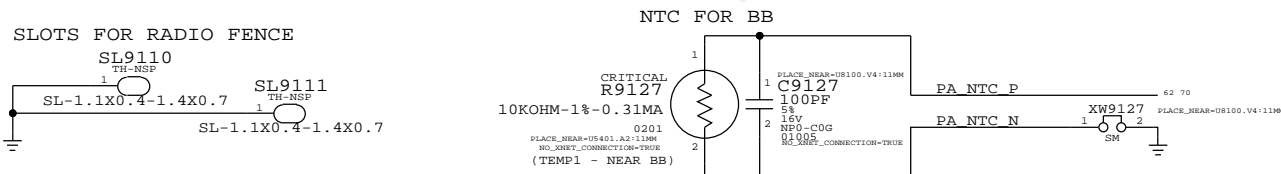
70 6	OUT	TP_JTAG_WLAN_TMS	MAKE_BASE=TRUE	JTAG_WLAN_TMS	IN	57
70 6	OUT	TP_JTAG_WLAN_TRST	MAKE_BASE=TRUE	JTAG_WLAN_TRST	IN	57

POWER

72	=PPVCC_MAIN_WLAN	=	PP_VCC_MAIN_WLAN	57
72	=PP3V3_S2R_WIFI_PA	=	PP_3V3_S2R_WIFI_PA	56 57
72	=PP1V8_S2R_VDDIO_WLAN_BT	=	PP_1V8_S2R_VDDIO_WLAN_BT	57 73

NO CONNECT

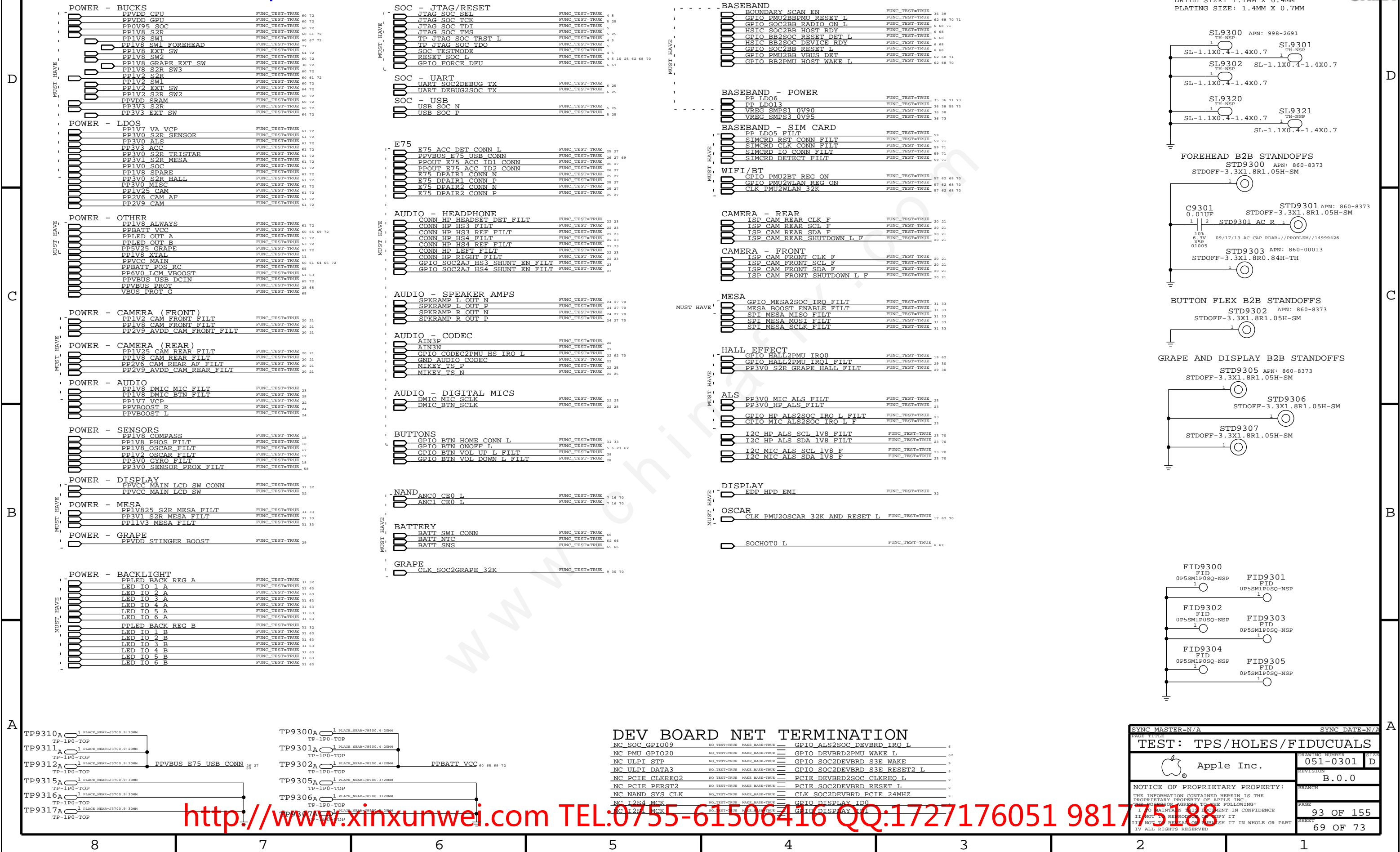
57	NC_WLAN_GPIO3	NO_TEST=TRUE	MAKE_BASE=TRUE	BT_EXT_SYNC	OUT	57
57	NC_WLAN_GPIO5	NO_TEST=TRUE	MAKE_BASE=TRUE	BT_EXT_CLK	OUT	57



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EE CHARACTERIZATION TP

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HIGH SPEED, NO TEST



SOC

PP9501	1	RESET SOC L	PLACE_SIDE=TOP	4 5 10 25 62 68 69
PP9503	1	SOCHOT0 L R		62
PP9503	1	TP GPIO DFU STATUS	FUNC_TEST=TRUE	6

PP9502	1	TP ANALOGMUXOUT		5
--------	---	-----------------	--	---

PP9507	1	PPVDD CPU SOC SENSE	PLACE_NEAR=U0600.AB13:1.5MM	13 62
PP9508	1	PPVDD GPU SOC SENSE	PLACE_NEAR=U0600.N261:1.5MM	13 62
PP9588	1	PPVDD SRAM SOC SENSE	PLACE_NEAR=U0600.N251:1.5MM	13 62
PP9513	1	PPVDD SOC SOC SENSE	PLACE_NEAR=U0600.N25:1.5MM	13 62

PP9509	1	TP SOC VSS SENSE	PLACE_NEAR=U0600.M26:1.5MM	12
PP9510	1	TP SOC VSS CPU SENSE	PLACE_NEAR=U0600.AC13:1.5MM	12

NAND

ANCO AD<1..7>	FUNC_TEST=TRUE	7 16
ANCO CRO L	FUNC_TEST=TRUE	7 16 69
ANCO ALE	FUNC_TEST=TRUE	7 16
ANCO CLE	FUNC_TEST=TRUE	7 16
ANCO WE L	FUNC_TEST=TRUE	7 16
ANCO RE L	FUNC_TEST=TRUE	7 16

ANCI AD<0>	FUNC_TEST=TRUE	7 16
ANCI CRO L	FUNC_TEST=TRUE	7 16 69
ANCI ALE	FUNC_TEST=TRUE	7 16
ANCI CLE	FUNC_TEST=TRUE	7 16
ANCI WE L	FUNC_TEST=TRUE	7 16
ANCI RE L	FUNC_TEST=TRUE	7 16
ANCI DOS	FUNC_TEST=TRUE	7 16

PPVREF ANC SOC	FUNC_TEST=TRUE	7
PPVREF ANC NAND	FUNC_TEST=TRUE	7
NAND SLOTO RDYBSY L	FUNC_TEST=TRUE	16

PP9505	1	ANCO AD<0>	PLACE_SIDE=BOTTOM	7 16
PP9506	1	ANCO DOS	PLACE_SIDE=BOTTOM	7 16
PP9500	1	GND	(PLACE_SIDE=TOP)	7 16
PP9504	1	=PP1V8 NAND	(PLACE_SIDE=TOP)	16 72
PP9500	1	TP ANC TCKC NAND	(PLACE_SIDE=TOP)	16
PP9504	1	TP ANC TMSC NAND	(PLACE_SIDE=TOP)	16

PMU

GPIO PMU2BBPMU RESET L	FUNC_TEST=TRUE	62 68 69 71
GPIO BT2PMU HOST WAKE	FUNC_TEST=TRUE	62 68 70
GPIO BB2PMU HOST WAKE L	FUNC_TEST=TRUE	62 68 69
GPIO CODEC2PMU HS IRQ L	FUNC_TEST=TRUE	62 68 69
PMU TCAL	FUNC_TEST=TRUE	62

CLK PMU2WLAN 32K	FUNC_TEST=TRUE	57 62 68 69 70
CLK PMU2OSCAR 32K AND RESET	FUNC_TEST=TRUE	17 62 69

PA NTC P	FUNC_TEST=TRUE	62 68
BOARD TEMP2 P	FUNC_TEST=TRUE	62
BOARD TEMP3 P	FUNC_TEST=TRUE	62
BOARD TEMP4 P	FUNC_TEST=TRUE	62
BOARD TEMP5 P	FUNC_TEST=TRUE	62
BOARD TEMP6 P	FUNC_TEST=TRUE	62
BOARD TEMP7 P	FUNC_TEST=TRUE	62
BOARD TEMP8 P	FUNC_TEST=TRUE	62

TP BUCK LDO UOV	FUNC_TEST=TRUE	62
TP BUCK SLDP MUX	FUNC_TEST=TRUE	62

TP AMUX AY	FUNC_TEST=TRUE	62
TP AMUX BY	FUNC_TEST=TRUE	62

PP9511	1	DWI SOC2PMU CLK		6 62
PP9512	1	DWI SOC2PMU DO		6 62
PP95F1	1	SYS ALIVE		62

GRAPE

I2C GRAPE SDA 1V8	(CUMULUS TDO) FUNC_TEST=TRUE	29 30
TP JTAG CUMULUS M TCK	FUNC_TEST=TRUE	70
TP JTAG CUMULUS M TDI	FUNC_TEST=TRUE	30
JTAG CUMULUS M TMS	FUNC_TEST=TRUE	30

SPI GRAPE SCLK	FUNC_TEST=TRUE	6 30
SPI GRAPE MISO	FUNC_TEST=TRUE	6 30
SPI GRAPE MOST	FUNC_TEST=TRUE	6 30
SPI GRAPE CS L	FUNC_TEST=TRUE	6 30

GPIO SOC2GRAPE RESET L	FUNC_TEST=TRUE	6 30
GPIO GRAPE2SOC IRO L	FUNC_TEST=TRUE	6 30
DISPLAY SYNC	FUNC_TEST=TRUE	6 30
CLK SOC2GRAPE 32K	FUNC_TEST=TRUE	9 30 69

CUMULUS M2S CLK	FUNC_TEST=TRUE	30
CUMULUS M2S SDA	FUNC_TEST=TRUE	30
I2C GRAPE SDA 1V8	FUNC_TEST=TRUE	29 30 70
I2C GRAPE SCL 1V8	FUNC_TEST=TRUE	29 30

PP9514	1	TP CUMULUS S CS L		30
PP9515	1	TP CUMULUS S GPIO 3		30

AUDIO

DMIC MIC SD	FUNC_TEST=TRUE	22 23
DMIC BTN SD	FUNC_TEST=TRUE	22 23
GPIO CODEC2SOC IRO L	FUNC_TEST=TRUE	6 22

TP9500 A	1	TP-P5		
TP9501 A	1	SPKRAMP R OUT P	FUNC_TEST=TRUE	24 27 69
TP9502 A	1	TP-P5		
TP9503 A	1	SPKRAMP R OUT N	FUNC_TEST=TRUE	24 27 69
TP9510 A	1	TP-P5		
TP9511 A	1	SPKRAMP L OUT P	FUNC_TEST=TRUE	24 27 69
TP9512 A	1	TP-P5		
TP9513 A	1	SPKRAMP L OUT N	FUNC_TEST=TRUE	24 27 69

PP95D0	1	I2S SOC2SPKRAMP MCK		6 24
PP95D1	1	I2S SOC2SPKRAMP BCLK		6 24
PP95D2	1	I2S SOC2SPKRAMP LRCK		6 24
PP95D3	1	I2S SOC2SPKRAMP DOUT		6 24
PP95D4	1	I2S SPKRAMP2SOC DOUT		6 24
PP95D7	1	I2S SOC2CODEC ASP MCK		6 22
PP95D8	1	I2S SOC2CODEC ASP BCLK		6 22
PP95D9	1	I2S SOC2CODEC ASP LRCK		6 22
PP95DA	1	I2S SOC2CODEC ASP DOUT		6 22
PP95DB	1	I2S CODEC2SOC ASP DOUT		6 22
PP95DC	1	I2S SOC2CODEC XSP BCLK		6 22
PP95DD	1	I2S SOC2CODEC XSP LRCK		6 22
PP95DE	1	I2S SOC2CODEC XSP DOUT		6 22
PP95DF	1	I2S CODEC2SOC XSP DOUT		6 22

CAMERA - FRONT				
PP9520	1	MIPI CAM FRONT CLK P	PLACE_NEAR=U0600.AV36:1.5MM	8 21 70
PP9521	1	MIPI CAM FRONT CLK N	PLACE_NEAR=U0600.AV36:1.5MM	8 21 70
PP9522	1	MIPI CAM FRONT DATA P<0>	PLACE_NEAR=U0600.AV37:1.5MM	8 21 70
PP9523	1	MIPI CAM FRONT DATA N<0>	PLACE_NEAR=U0600.AV37:1.5MM	8 21 70
CAMERA - REAR				
PP9524	1	MIPI CAM REAR CLK P	PLACE_NEAR=U0600.AV31:1.5MM	8 21 70
PP9525	1	MIPI CAM REAR CLK N	PLACE_NEAR=U0600.AV31:1.5MM	8 21 70
PP9526	1	MIPI CAM REAR DATA P<0>	PLACE_NEAR=U0600.AV31:1.5MM	8 21 70
PP9527	1	MIPI CAM REAR DATA N<0>	PLACE_NEAR=U0600.AV31:1.5MM	8 21 70

OSCAR

PP95C0	1	TP OSCAR P0 05		17
PP95C1	1	TP OSCAR P0 06		17
PP95C2	1	TP OSCAR P0 09		17
PP95C3	1	TP OSCAR P0 17		17
PP95C4	1	TP OSCAR P0 21		17
PP95C8	1	TP OSCAR P1 02		17
PP95C9	1	TP OSCAR P1 03		17
PP95CD	1	SWD OSCAR IO 1V8		9 17
PP95CE	1	SWD OSCAR CLK 1V8		9 17

CHAN 0 NEAR DRAM				
PP9534	1	DDR0 CK P	PLACE_NEAR=U1600.W13:1.5MM	10 15 70
PP9535	1	DDR0 CK N	PLACE_NEAR=U1600.W13:1.5MM	10 15 70
PP9536	1	DDR0 CKE<0>	PLACE_NEAR=U1600.W14:1.5MM	10 15 70
PP9537	1	DDR0 CA<0>	PLACE_NEAR=U1600.W17:1.5MM	10 15 70
PP9538	1	DDR0 CA<1>	PLACE_NEAR=U1600.W17:1.5MM	10 15 70
PP9539	1	DDR0 CA<2>	PLACE_NEAR=U1600.V16:1.5MM	10 15 70
PP9540	1	DDR0 CA<3>	PLACE_NEAR=U1600.W16:1.5MM	10 15 70
PP9541	1	DDR0 CSN<0>	PLACE_NEAR=U1600.V14:1.5MM	10 15 70
PP9530	1	DDR0 DOS P<0>	PLACE_NEAR=U1600.D15:1.5MM	10 15 70
PP9531	1	DDR0 DOS N<0>	PLACE_NEAR=U1600.D14:1.5MM	10 15 70
PP9532	1	DDR0 DQ<0>	PLACE_NEAR=U1600.C17:1.5MM	10 15 70

CHAN 0 NEAR SOC				
PP9570	1	DDR0 DOS P<0>	PLACE_NEAR=U0600.D7:1.5MM	10 15 70
PP9571	1	DDR0 DOS N<0>	PLACE_NEAR=U0600.D6:1.5MM	10 15 70
PP9572	1	DDR0 DQ<0>	PLACE_NEAR=U0600.P13:1.5MM	10 15 70

CHAN 1 NEAR DRAM				
PP9542	1	DDR1 DOS P<0>	PLACE_NEAR=U1600.K4:1.5MM	10 15 70
PP9543	1	DDR1 DOS N<0>	PLACE_NEAR=U1600.K4:1.5MM	10 15 70
PP9544	1	DDR1 DQ<0>	PLACE_NEAR=U1600.H3:1.5MM	10 15 70

CHAN 1 NEAR SOC				
PP9573	1	DDR1 DOS P<0>	PLACE_NEAR=U0600.V1:1.5MM	10 15 70
PP9574	1	DDR1 DOS N<0>	PLACE_NEAR=U0600.U1:1.5MM	10 15 70
PP9575	1	DDR1 DQ<0>	PLACE_NEAR=U0600.AA3:1.5MM	10 15 70

WIFI

TP JTAG WLAN TMS	FUNC_TEST=TRUE	68
TP JTAG WLAN TRST	FUNC_TEST=TRUE	68
JTAG WLAN SEL	(TD1) FUNC_TEST=TRUE	57
UART SOC2WLAN RTS L	(TD0) FUNC_TEST=TRUE	6 57 68
WLAN SECI IN	FUNC_TEST=TRUE	57
OSCAR2RADIO CONTEXT A	FUNC_TEST=TRUE	57 68
OSCAR2RADIO CONTEXT B	FUNC_TEST=TRUE	57 68
UART BT2SOC TX	FUNC_TEST=TRUE	6 68
UART SOC2BT TX	FUNC_TEST=TRUE	6 57
UART SOC2WLAN TX	FUNC_TEST=TRUE	6 57 68
UART WLAN2SOC TX	FUNC_TEST=TRUE	6 68
UART BB2WLAN COEX RX	FUNC_TEST=TRUE	40 57 71
UART WLAN2BB COEX TX	FUNC_TEST=TRUE	40 57
I2S SOC2BT BCLK	FUNC_TEST=TRUE	6 57 68
I2S SOC2BT LRCK	FUNC_TEST=TRUE	6 57 68
I2S BT2SOC DOUT	FUNC_TEST=TRUE	6 68
I2S SOC2BT DOUT	FUNC_TEST=TRUE	6 57 68
CLK PMU2WLAN 32K	FUNC_TEST=TRUE	57 62 68 69 70
GPIO PMU2WLAN REG ON	FUNC_TEST=TRUE	57 62 68 69
GPIO PMU2BT REG ON	FUNC_TEST=TRUE	57 62 68 69
GPIO WLAN2PMU HOST WAKE	FUNC_TEST=TRUE	57 62 68 69
GPIO BT2PMU HOST WAKE	FUNC_TEST=TRUE	57 62 68 69
GPIO SOC2WLAN WAKE	FUNC_TEST=TRUE	57 62 68 69
GPIO SOC2BT WAKE	FUNC_TEST=TRUE	57 62 68 69

OTHER PPS				
PP95B8	1	WLAN GPIO 8		57
PP95B9	1	WLAN GPIO 10		57
PP95B3	1	WLAN GPIO 11		57

I2C	I2C OSCAR2PROX SDA 1V8	FUNC_TEST=TRUE	17 58
	I2C OSCAR2PROX SCL 1V8	FUNC_TEST=TRUE	17 58
	I2C0 SCL 1V8	FUNC_TEST=TRUE	4 6
	I2C0 SDA 1V8	FUNC_TEST=TRUE	4 6
	I2C1 SCL 1V8	FUNC_TEST=TRUE	4 6
	I2C1 SDA 1V8	FUNC_TEST=TRUE	4 6
	I2C2 SCL 1V8	FUNC_TEST=TRUE	4 6
	I2C2 SDA 1V8	FUNC_TEST=TRUE	4 6

PP95F4	1	=I2C3 SDA 1V8		4
PP95F5	1	=I2C3 SCL 1V8		4

I2C HP ALS SCL 1V8 FILT	FUNC_TEST=TRUE	23 69
I2C HP ALS SDA 1V8 FILT	FUNC_TEST=TRUE	23 69
I2C MIC ALS SCL 1V8 F	FUNC_TEST=TRUE	23 69
I2C MIC ALS SDA 1V8 F	FUNC_TEST=TRUE	23 69

UART

UART SOC2ACC TX	FUNC_TEST=TRUE	25
UART ACC2SOC TX	FUNC_TEST=TRUE	25
UART SOC2OSCAR TX	FUNC_TEST=TRUE	17
UART OSCAR2SOC TX	FUNC_TEST=TRUE	17

CHAN 2 NEAR DRAM				
PP9548	1	DDR2 CK P	PLACE_NEAR=U1700.W13:1.5MM	10 15 70
PP9549	1	DDR2 CK N	PLACE_NEAR=U1700.W13:1.5MM	10 15 70
PP9550	1	DDR2 CKE<0>	PLACE_NEAR=U1700.W14:1.5MM	10 15 70
PP9551	1	DDR2 CA<0>	PLACE_NEAR=U1700.V17:1.5MM	10 15 70
PP9552	1	DDR2 CA<1>	PLACE_NEAR=U1700.W17:1.5MM	10 15 70
PP9553	1	DDR2 CA<2>	PLACE_NEAR=U1700.V16:1.5MM	10 15 70
PP9554	1	DDR2 CA<3>	PLACE_NEAR=U1700.W16:1.5MM	10 15 70
PP9555	1	DDR2 CSN<0>	PLACE_NEAR=U1700.V14:1.5MM	10 15 70
PP9545	1	DDR2 DOS P<0>	PLACE_NEAR=U1700.D15:1.5MM	10 15 70
PP9546	1	DDR2 DOS N<0>	PLACE_NEAR=U1700.D14:1.5MM	10 15 70
PP9547	1	DDR2 DQ<0>	PLACE_NEAR=U1700.C17:1.5MM	10 15 70

CHAN 2 NEAR SOC				
PP9585	1	DDR2 DOS P<0>	PLACE_NEAR=U0600.AM1:1.5MM	10 15 70
PP9586	1	DDR2 DOS N<0>	PLACE_NEAR=U0600.AM1:1.5MM	10 15 70
PP9587	1	DDR2 DQ<0>	PLACE_NEAR=U0600.AB3:1.5MM	10 15 70

CHAN 3 NEAR DRAM				
PP9556	1	DDR3 DOS P<0>	PLACE_NEAR=U1700.K4:1.5MM	10 15 70
PP9557	1	DDR3 DOS N<0>	PLACE_NEAR=U1700.L4:1.5MM	10 15 70
PP9558	1	DDR3 DQ<0>	PLACE_NEAR=U1700.H3:1.5MM	10 15 70

CHAN 3 NEAR SOC				
PP9596	1	DDR3 DOS P<0>	PLACE_NEAR=U0600.AT10:1.5MM	10 15 70
PP9597	1	DDR3 DOS N<0>	PLACE_NEAR=U0600.AT11:1.5MM	10 15 70
PP9598	1	DDR3 DQ<0>	PLACE_NEAR=U0600.AP7:1.5MM	10 15 70

PP95B5	1	UART WLAN2SOC RTS L		6 68
PP95B6	1	UART BT2SOC RTS L		6 68
PP95B7	1	UART SOC2BT RTS L		6 57 68

SOC SIDE PCIE TPS				
PP95A0	1	PLACE_NEAR=U0600.D28:1.5MM	PCIE WLAN2SOC TX P	9 68 70
PP95A1	1	PLACE_NEAR=U0600.D28:1.5MM	PCIE WLAN2SOC TX N	9 68 70
REMOVED PCIE SOC2WLAN TX C P PP BECAUSE THE IT BLOCKED THE SHIM RING.				
REMOVED PCIE SOC2WLAN TX C N PP BECAUSE THE P VERSION WAS REMOVED				
PP95A6	1	PLACE_NEAR=U0600.J40:1.5MM	PCIE WLAN2SOC CLKREQ L	9 68 70

WLAN SIDE PCIE TPS				
PP95A7	1	PLACE_NEAR=U07500.731:1.5MM	PCIE WLAN2SOC TX C P	9 68 70
PP95A8	1	PLACE_NEAR=U07500.74:1.5MM	PCIE WLAN2SOC TX C N	9 68 70
PP95A9	1	PLACE_NEAR=U07500.77:1.5MM	PCIE SOC2WLAN TX P	9 57 68 70
PP95B0	1	PLACE_NEAR=U07500.76:1.5MM	PCIE SOC2WLAN TX N	9 57 68 70
PP95B1	1	PLACE_NEAR=U07500.71:1.5MM	PCIE SOC2WLAN CLK P	9 57 68 70
PP95B2	1	PLACE_NEAR=U07500.70:1.5MM	PCIE SOC2WLAN CLK N	9 57 68 70
PP95B3	1	PLACE_NEAR=U07500.71:1.5MM	PCIE SOC2WLAN RESET	9 57 68 70

MIPI CAM REAR CLK P	NO_TEST=TRUE	8 21 70
MIPI CAM REAR CLK N	NO_TEST=TRUE	8 21



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RF TEAM REQUESTED TPS

	SIMCRD_RST_CONN_FILT	FUNC_TEST=TRUE	59	69
	SIMCRD_CLK_CONN_FILT	FUNC_TEST=TRUE	59	69
	SIMCRD_IO_CONN_FILT	FUNC_TEST=TRUE	59	69
	SIMCRD_DETECT_FILT	FUNC_TEST=TRUE	59	69
	PP_LDO6	FUNC_TEST=TRUE	35	36 69 73
	UART_BB2SOC_TX	FUNC_TEST=TRUE	6	25 68
	UART_SOC2BB_TX	FUNC_TEST=TRUE	6	25 68
	UART_BB2SOC_RTS_L	FUNC_TEST=TRUE	6	68
	UART_SOC2BB_RTS_L	FUNC_TEST=TRUE	6	68
	UART_OSCAR2BB_TX	FUNC_TEST=TRUE	17	68
	UART_BB2OSCAR_TX	FUNC_TEST=TRUE	17	68
	UART_BB2WLAN_COEX_RX	FUNC_TEST=TRUE	40	57 70
	UART_WLAN2BB_COEX_TX	FUNC_TEST=TRUE	40	57 70
	GPIO_SOC2BB_WAKE_MODEM	FUNC_TEST=TRUE	6	68
	GPIO_BB2SOC_GPS_SYNC	FUNC_TEST=TRUE	6	68
	USB_BB_P	FUNC_TEST=TRUE	25	68
	USB_BB_N	FUNC_TEST=TRUE	25	68
	GPIO_SOC2BB_COREDUMP	FUNC_TEST=TRUE	6	68
	GPIO_SOC2BB_RADIO_ON_L	FUNC_TEST=TRUE	6	68 69
	GPIO_PMU2BBPMU_RESET_L	FUNC_TEST=TRUE	62	68 69 70
	GPIO_PMU2BB_VBUS_DET	FUNC_TEST=TRUE	62	68 69
PP9600	1	HSIC_BB_DATA	5	68
P4MM	1	HSIC_BB_STB	5	68
PP9601	1	HSIC_BB_STB	5	68
P4MM	1	HSIC_BB_STB	5	68

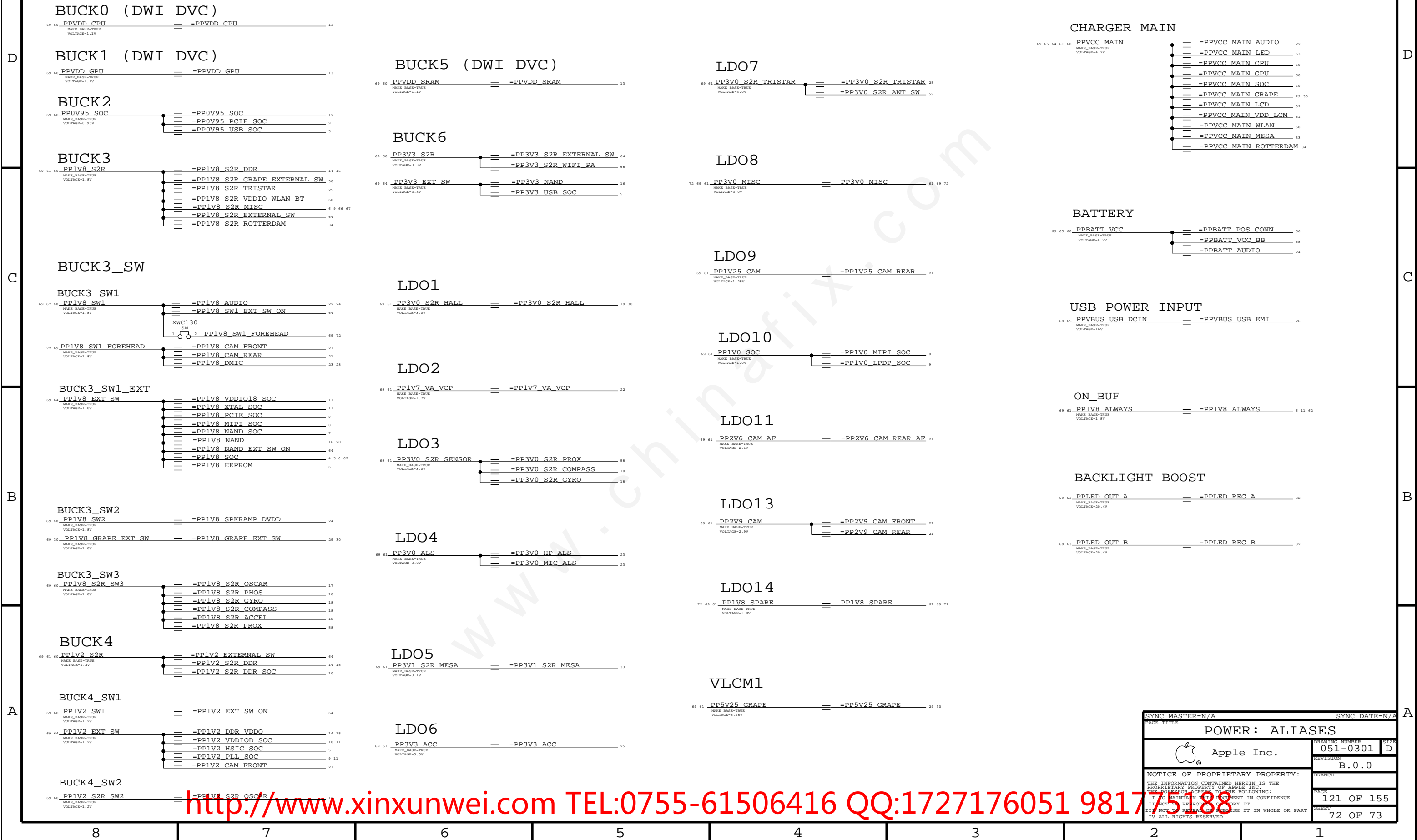
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POWER CONNECTIONS



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D

1	2.25V	PP_LDO1	36 38 42 43
1	8V	PP_LDO2	36 38
1	8V	PP_LDO3	36 37 38 55
3	0.75V	PP_LDO4	36 38
2	8.5V	PP_LDO5	36 38 59
2	8.5V	PP_LDO6	35 36 69 71
1	9V	PP_LDO7	36 38 40
2	0.5V	PP_LDO8	36 42 43
1	2V	PP_LDO9	36 38
0	9V	PP_LDO10	36 38
1	8V	PP_LDO11	35 36 38 39 40 42 43 44
0	9.5V	PP_LDO12	36 38
2	9.5V	PP_LDO13	36 38 55 69
2	9.5V	PP_LDO13_GPS	55
2	7V	PP_LDO14_RFSW	36 46 47
0	9.5V	VREG_SMPS3_0V95	36 69
2	0.75V	VREG_SMPS4_2V075	36

C

4	7V	PP_BATT_VCC	35 44 53 68
4	7V	PP_VCC_MAIN	73
4	2V	PP_BATT_VCC_2GPA	45
4	2V	PP_BATT_VCC_QPOET	44 45 50 51
4	2V	PP_BATT_VCC_RADIO	35 36
4	7V	PP_BATT_VCC_DSM	53
4	2V	PP_BATT_VCC_QPOET_HBS	51
4	2V	PP_BATT_VCC_QPOET_ASM	50

1	8V	PP_1V8_S2R_VDDIO_WLAN_BT	57 68
1	8V	PP_WL_VDDIO	57
4	7V	PP_VCC_MAIN	73

0V	S1_GND	36
0V	S2_GND	36
0V	S3_GND	36
0V	S4_GND	36
0V	GND_SW	44
0V	VOUT_BOOST_GND	44

B


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