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		SYNC MASTER	DATE	PDF CSA CONTENTS	SYNC MASTER	DATE	PDF CSA CONTENTS	SYNC MASTER	DATE
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2	2	BLOCK DIAGRAM: SYSTEM	N/A	27 33 CELL: BASEBAND PMU (2 OF 2)	RADIO_MLB_72_B7	06/03/2013	52 66 GRAPE: CUMULUS	N/A	N/A
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14	16	NAND: NAND	N/A	39 45 CELL: PA DC/DC CONVERTER	RADIO_MLB_72_B7	06/03/2013	64 151 CONSTRAINTS: LOW SPEED BUS	N/A	N/A
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22	27	CAMERA: FF AND ALS CONN	N/A	47 60 IO: TRISTAR	N/A	N/A			
23	28	CAMERA: REAR CONN	N/A	48 61 IO: FILTERING	N/A	N/A			
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		SYNC MASTER	DATE	PDF CSA CONTENTS	SYNC MASTER	DATE	PDF CSA CONTENTS	SYNC MASTER	DATE
		N/A	N/A	51 65 GRAPE: 1V8 POWER SWITCH	N/A	N/A	52 66 GRAPE: CUMULUS	N/A	N/A
		N/A	N/A	53 70 DISPLAY: EDP CONN	N/A	N/A	54 75 POWER: BATTERY CONNECTOR	N/A	N/A
		N/A	N/A	55 81 PMU: ANYA PAGE 1	N/A	N/A	56 82 PMU: ANYA PAGE 2	N/A	N/A
		N/A	N/A	57 83 PMU: ANYA PAGE 3	N/A	N/A	58 84 PMU: ANYA PAGE 4	N/A	N/A
		N/A	N/A	59 90 SOC: DEBUG	N/A	N/A	60 93 TEST: TP/HOLES/FIDUCIALS	N/A	N/A
		N/A	N/A	61 94 TEST: EE TP/PP	N/A	N/A	62 121 POWER: ALIASES	N/A	N/A
		N/A	N/A	63 150 CONSTRAINTS: MLB RULES	N/A	N/A	64 151 CONSTRAINTS: LOW SPEED BUS	N/A	N/A
		N/A	N/A	65 152 CONSTRAINTS: DISPLAY/AUDIO	N/A	N/A	66 153 CONSTRAINTS: DDR/FMI	N/A	N/A
		N/A	N/A	67 154 CONSTRAINTS: POWER / GND	N/A	N/A	68 157 CONSTRAINTS: RF	N/A	N/A
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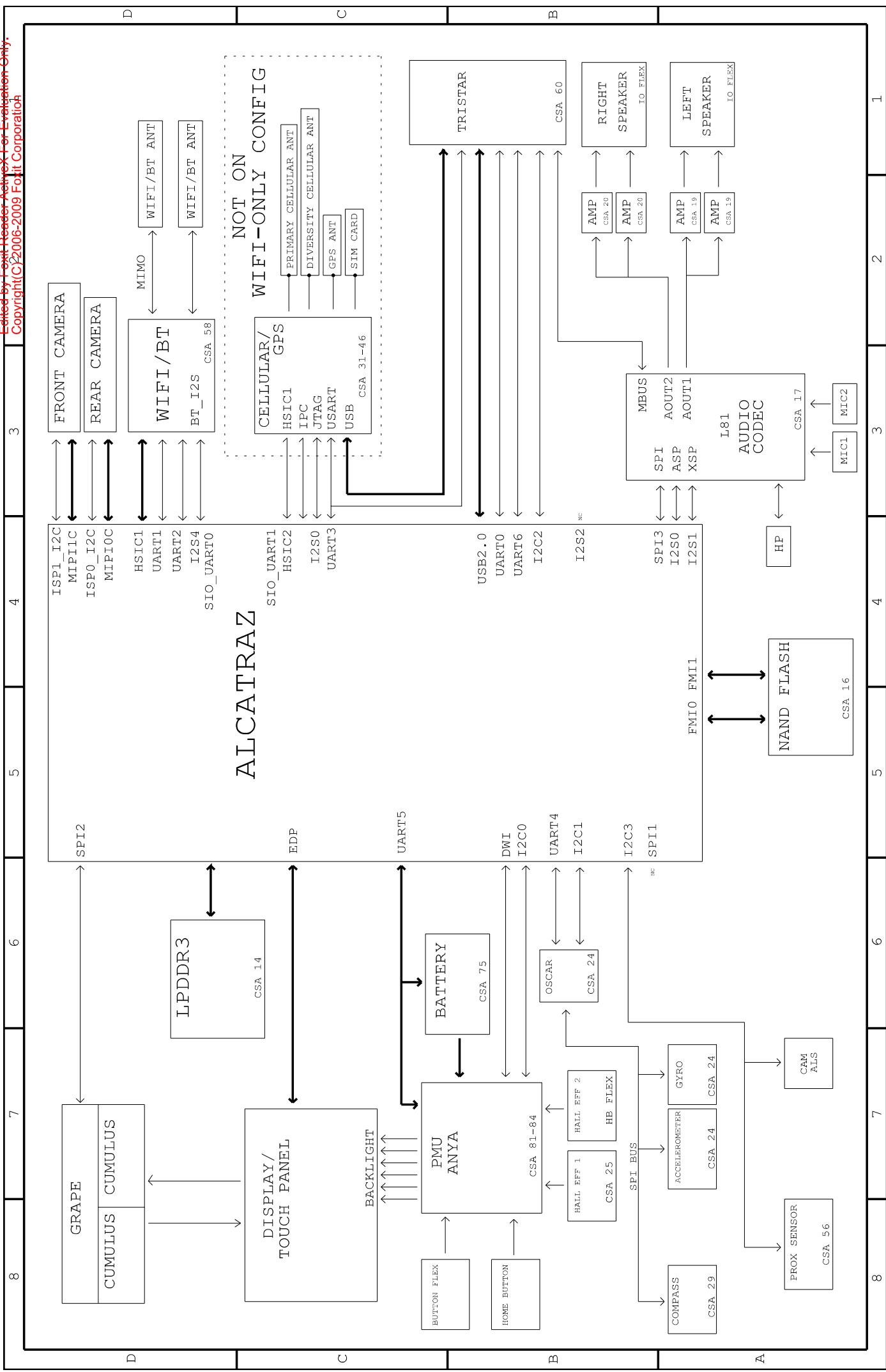
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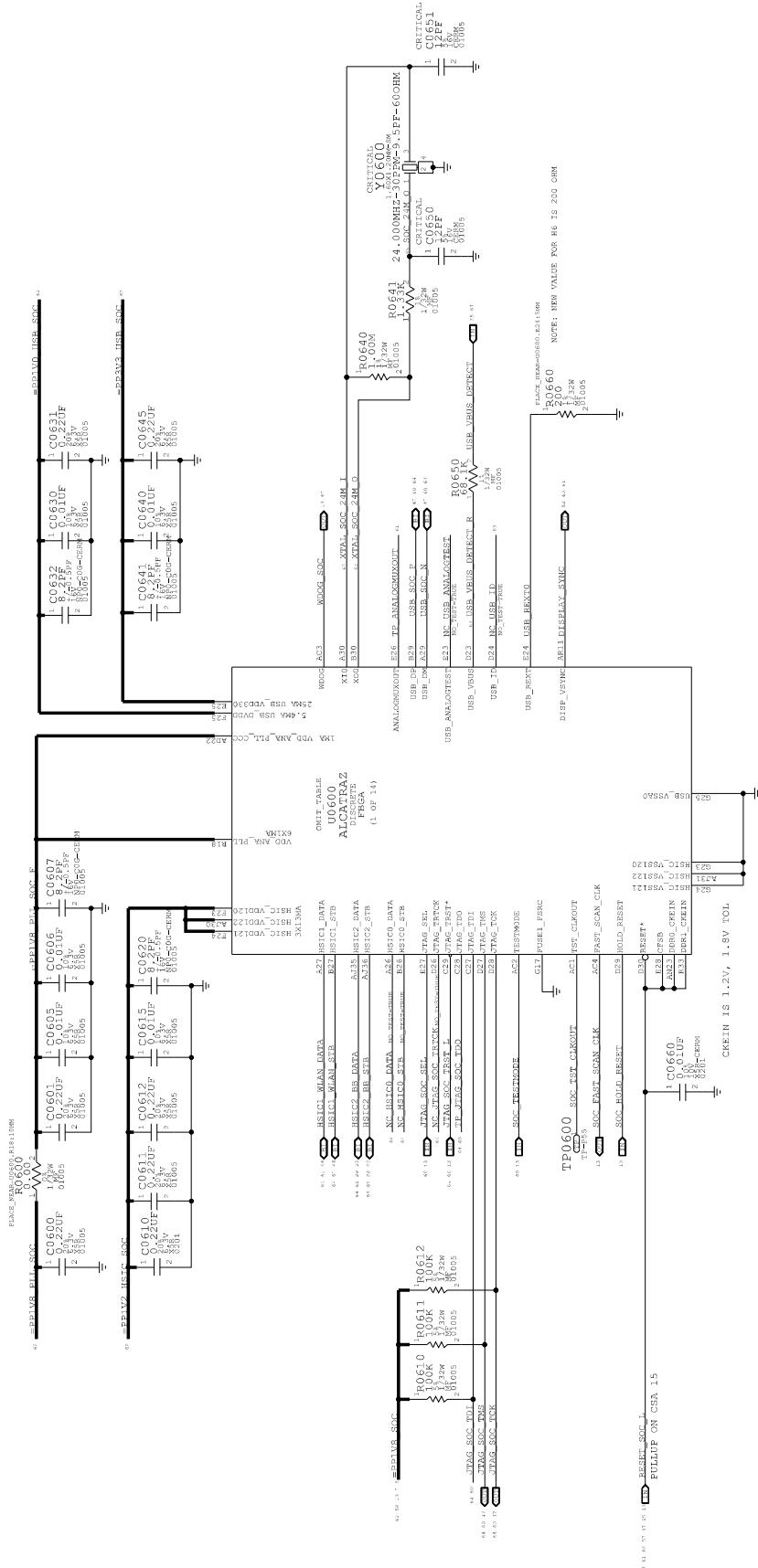
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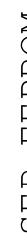
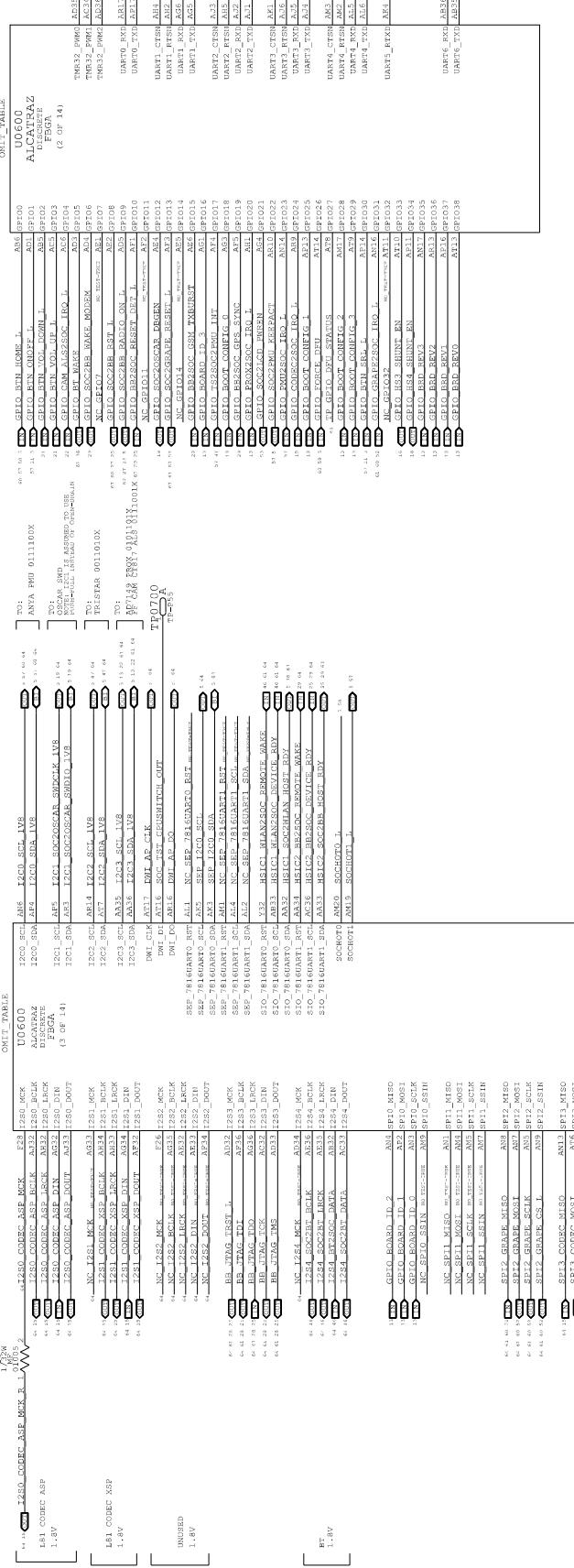
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		N/A	N/A	27 33 CELL: BASEBAND PMU (2 OF 2)	RADIO_MLB_72_B7	06/03/2013	52 66 GRAPE: CUMULUS	N/A	N/A
		N/A	N/A	28 34 CELL: BASEBAND (1 OF 2)	RADIO_MLB_72_B7	06/03/2013	53 70 DISPLAY: EDP CONN	N/A	N/A
		N/A	N/A	29 35 CELL: BASEBAND (2 OF 2)	RADIO_MLB_72_B7	06/03/2013	54 75 POWER: BATTERY CONNECTOR	N/A	N/A
		N/A	N/A	30 36 CELL: TRANSCEIVER (1 OF 2)	RADIO_MLB_72_B7	06/03/2013	55 81 PMU: ANYA PAGE 1	N/A	N/A
		N/A	N/A	31 37 CELL: TRANSCEIVER (2 OF 2)	RADIO_MLB_72_B7	06/03/2013	56 82 PMU: ANYA PAGE 2	N/A	N/A
		N/A	N/A	32 38 CELL: TRANSCEIVER MATCHING	RADIO_MLB_72_B7	06/03/2013	57 83 PMU: ANYA PAGE 3	N/A	N/A
		N/A	N/A	33 39 CELL: SAW BANK	RADIO_MLB_72_B7	06/03/2013	58 84 PMU: ANYA PAGE 4	N/A	N/A
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		N/A	N/A	35 41 CELL: BAND 2/3 PAD	RADIO_MLB_72_B7	06/03/2013	60 93 TEST: TP/HOLES/FIDUCIALS	N/A	N/A
		N/A	N/A	36 42 CELL: BAND 20 PAD	RADIO_MLB_72_B7	06/03/2013	61 94 TEST: EE TP/PP	N/A	N/A
		N/A	N/A	37 43 CELL: BAND 5/8 PAD	RADIO_MLB_72_B7	06/03/2013	62 121 POWER: ALIASES	N/A	N/A
		N/A	N/A	38 44 CELL: BAND 13/17 PAD	RADIO_MLB_72_B7	06/03/2013	63 150 CONSTRAINTS: MLB RULES	N/A	N/A
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		N/A	N/A	40 46 CELL: 2G FEM	RADIO_MLB_72_B7	06/03/2013	65 152 CONSTRAINTS: DISPLAY/AUDIO	N/A	N/A
		N/A	N/A	41 47 CELL: RX DIVERSITY	RADIO_MLB_72_B7	06/03/2013	66 153 CONSTRAINTS: DDR/FMI	N/A	N/A
		N/A	N/A	42 48 CELL: GPS	RADIO_MLB_72_B7	06/03/2013	67 154 CONSTRAINTS: POWER / GND	N/A	N/A
		N/A	N/A	43 49 CELL: ANTENNA FEEDS	RADIO_MLB_72_B7	06/03/2013	68 157 CONSTRAINTS: RF	N/A	N/A
		N/A	N/A	44 51 CELL: SIM FLEX CONN	N/A	N/A	69 158 CONSTRAINTS: WIFI/BT	WIFI_DEV	05/21/2013
		N/A	N/A	45 56 SENSOR: PROX AD7149	N/A	N/A			
		N/A	N/A	46 58 WIFI/BT: MODULE	WIFI_MCU	05/21/2013			
		N/A	N/A	47 60 IO: TRISTAR	N/A	N/A			
		N/A	N/A	48 61 IO: FILTERING	N/A	N/A			
		N/A	N/A	49 62 IO: FLEX HOTBAR PADS	N/A	N/A			
		N/A	N/A	50 63 IO: HOME BUTTON FILTERS	N/A	N/A			

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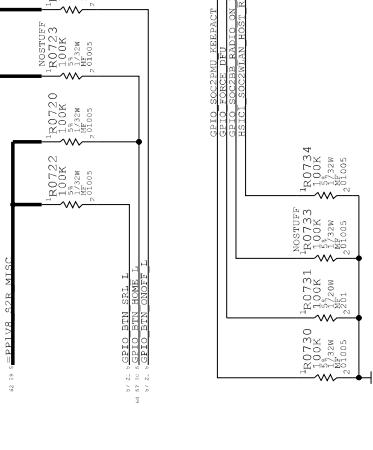
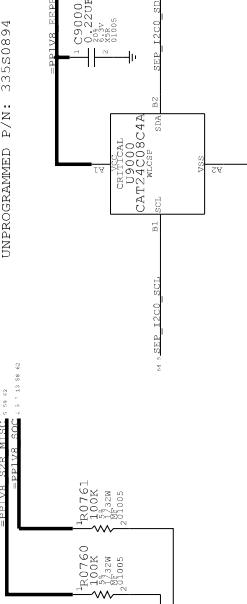
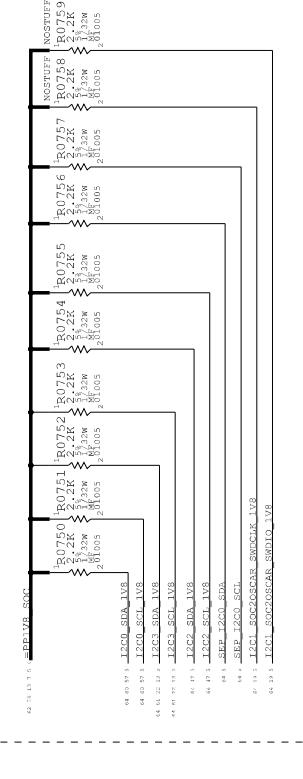
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		N/A	N/A	57 83 PMU: ANYA PAGE 3	N/A	N/A	58 84 PMU: ANYA PAGE 4	N/A	N/A
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		N/A	N/A	63 150 CONSTRAINTS: MLB RULES	N/A	N/A	64 151 CONSTRAINTS: LOW SPEED BUS	N/A	N/A
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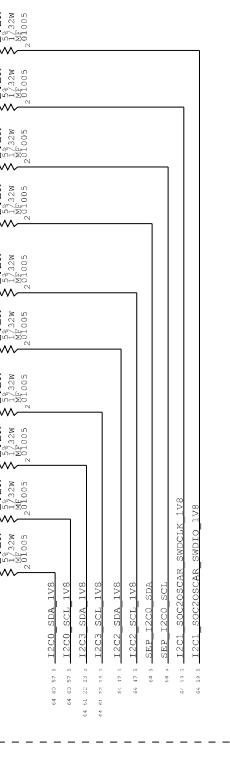


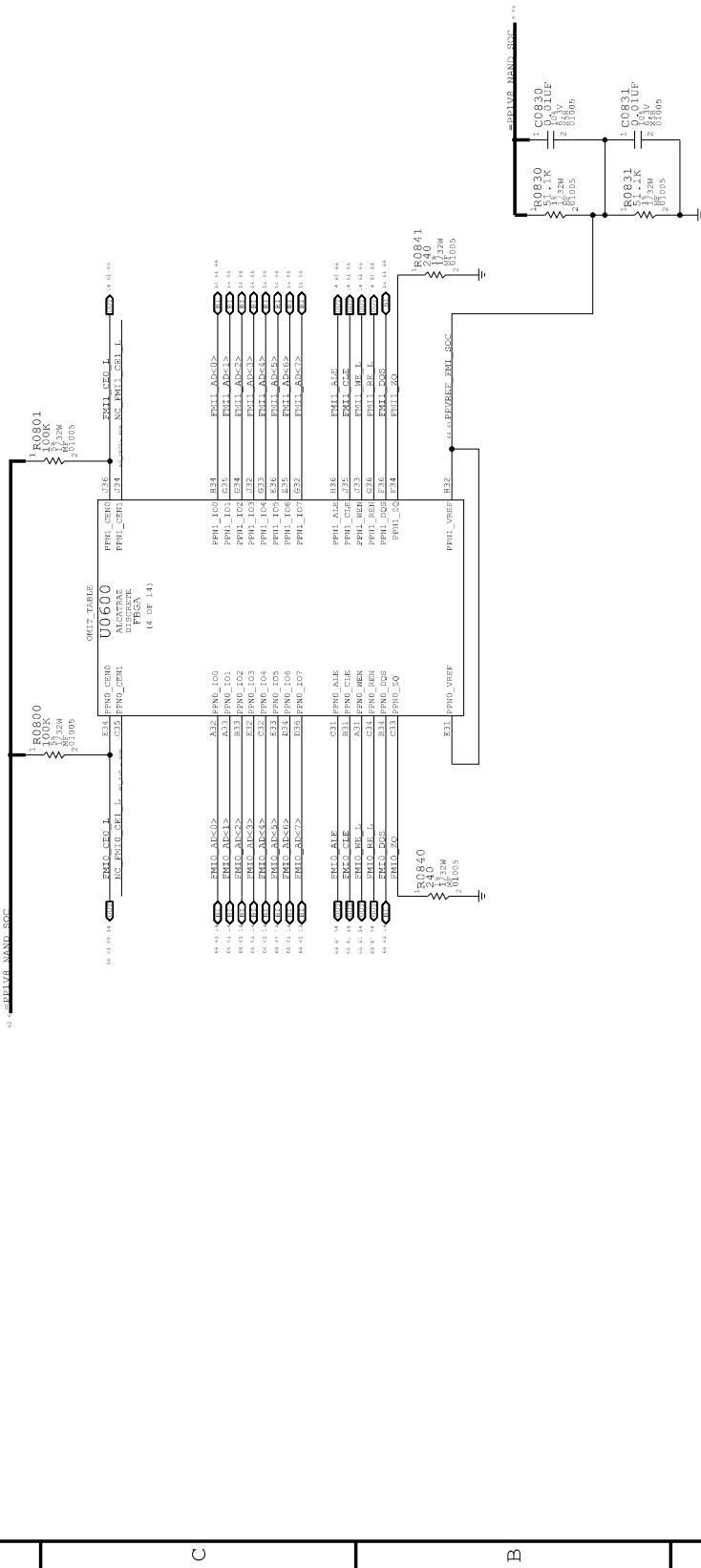


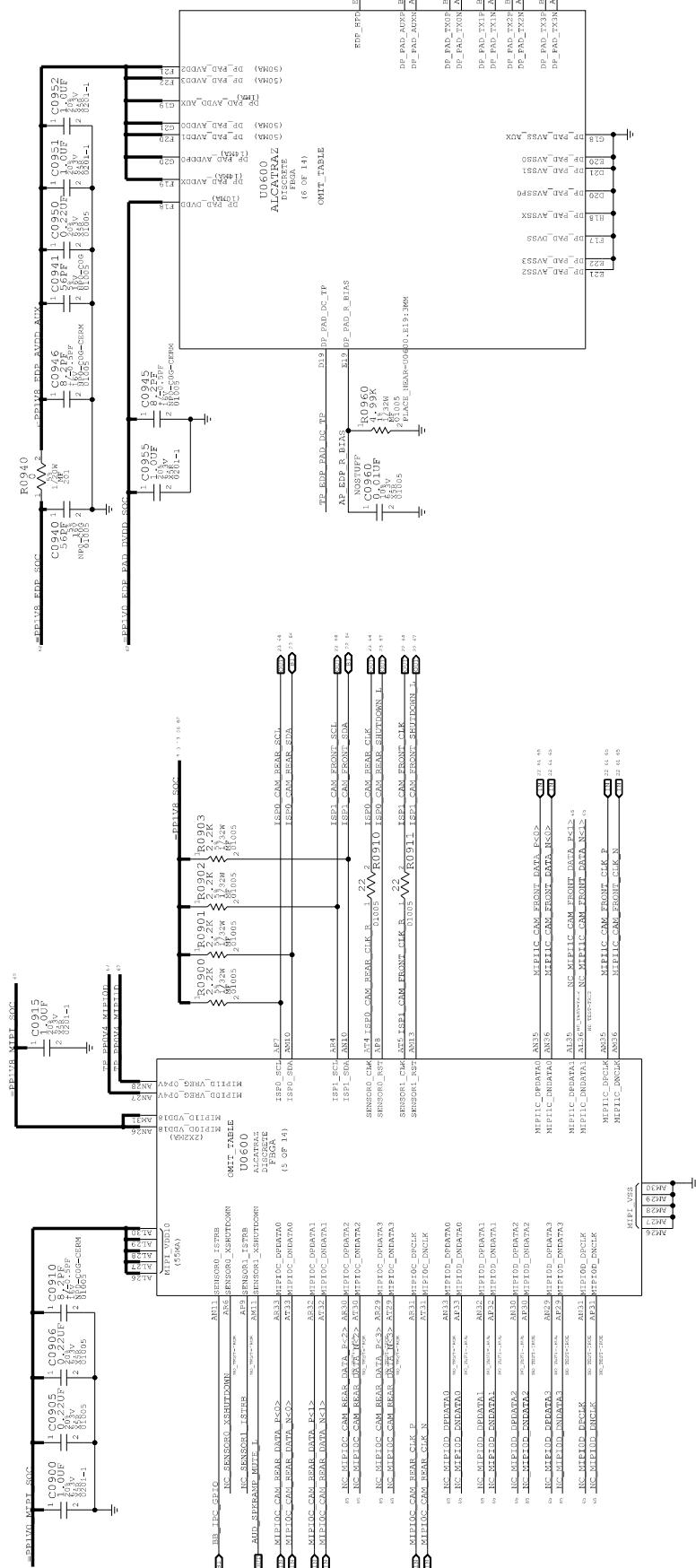
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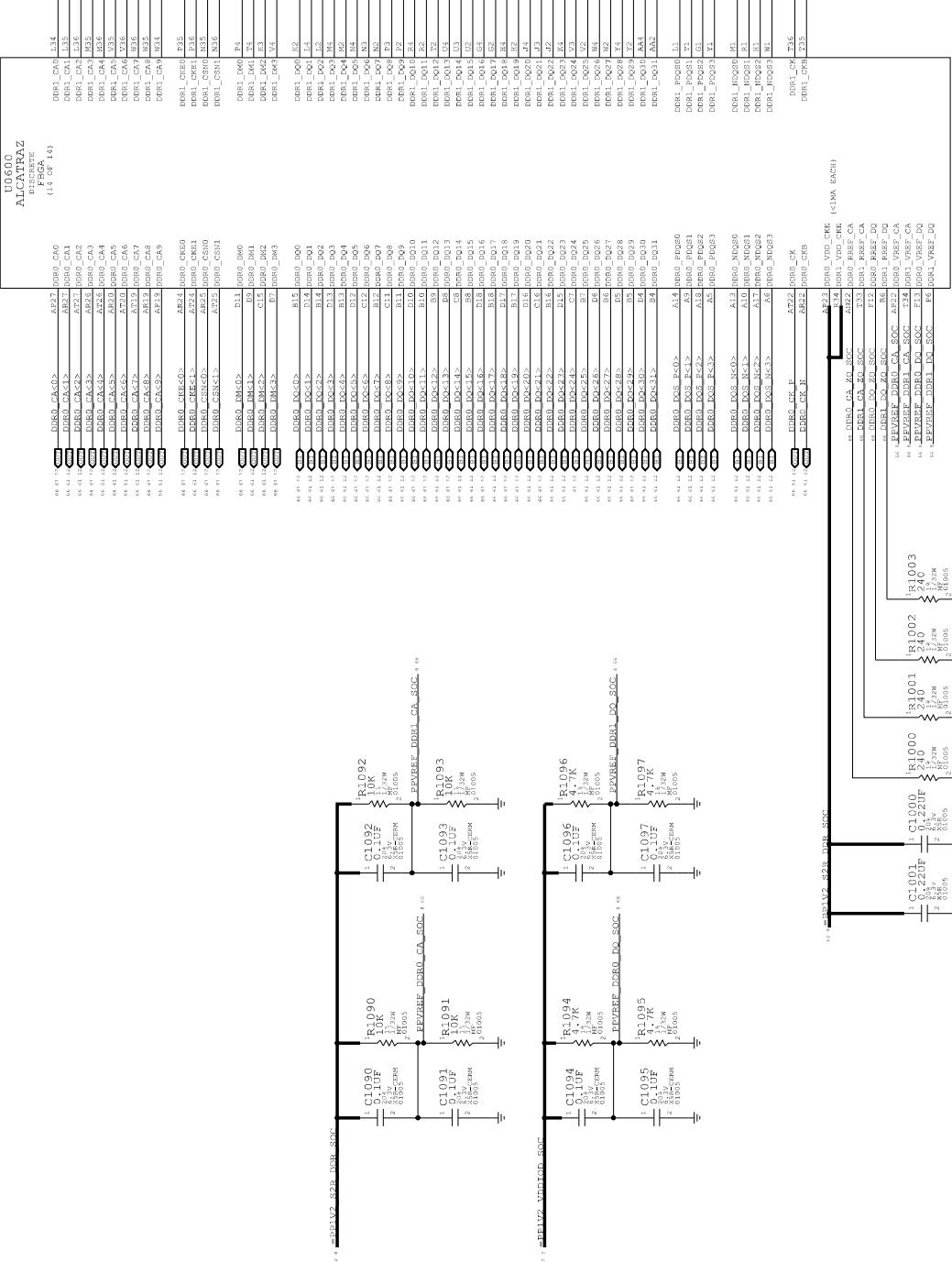
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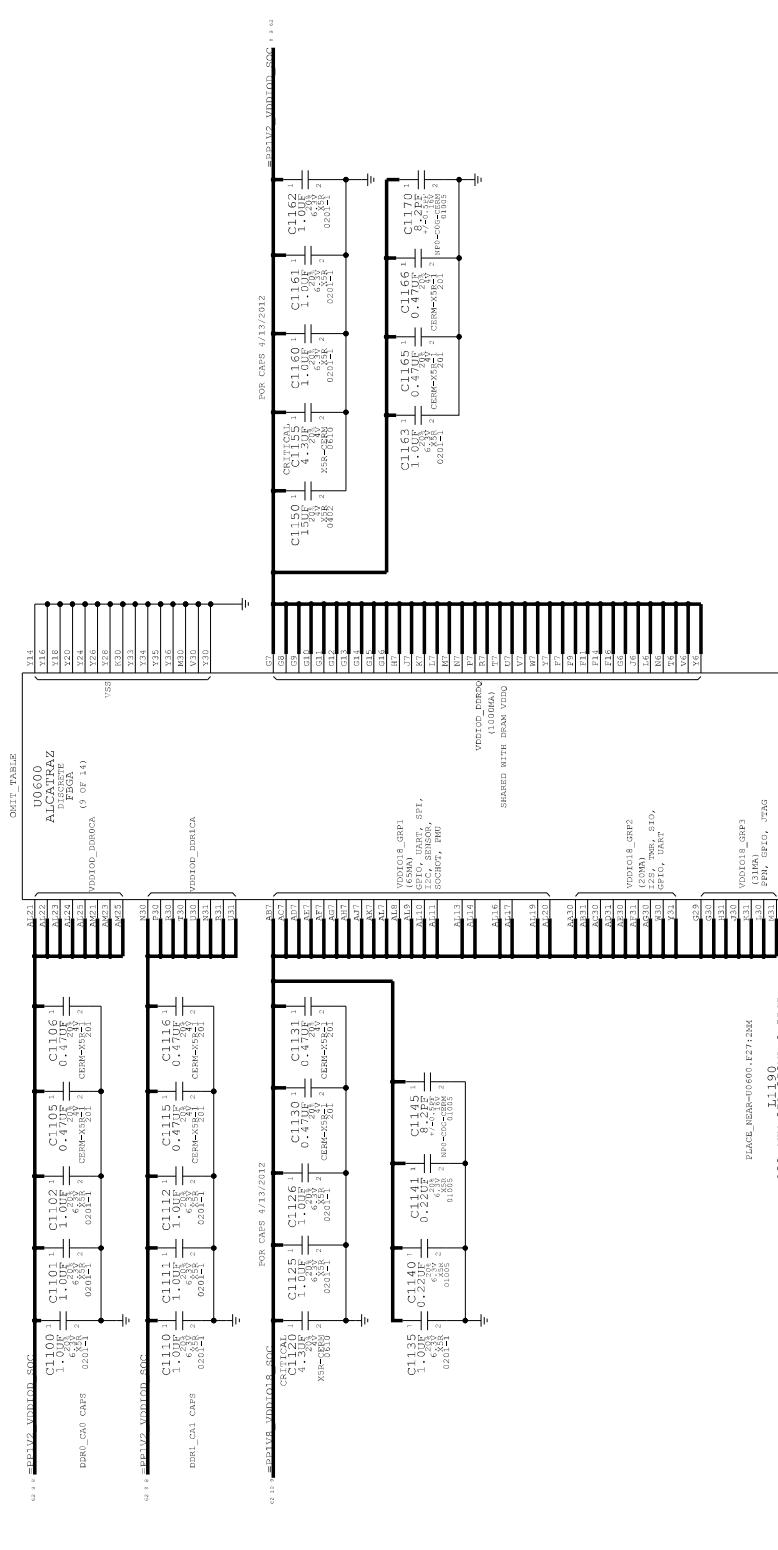
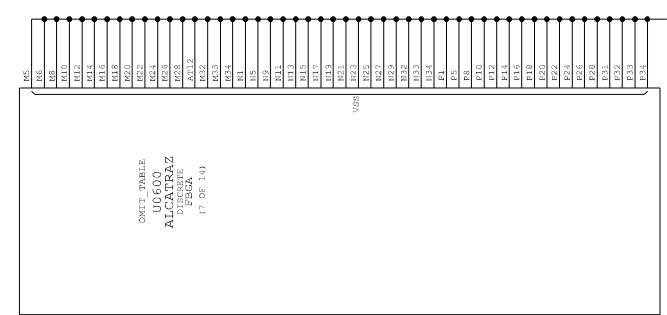


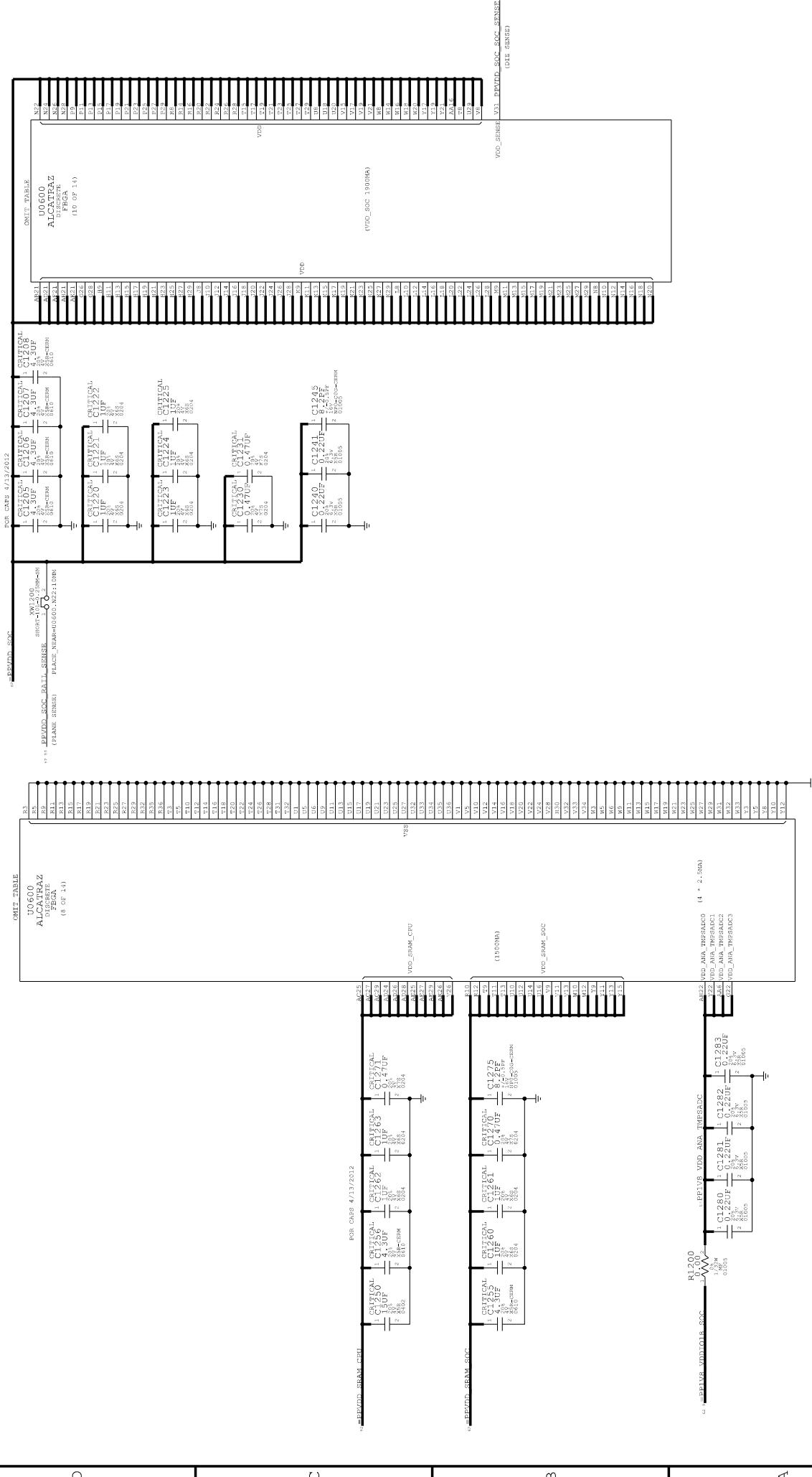


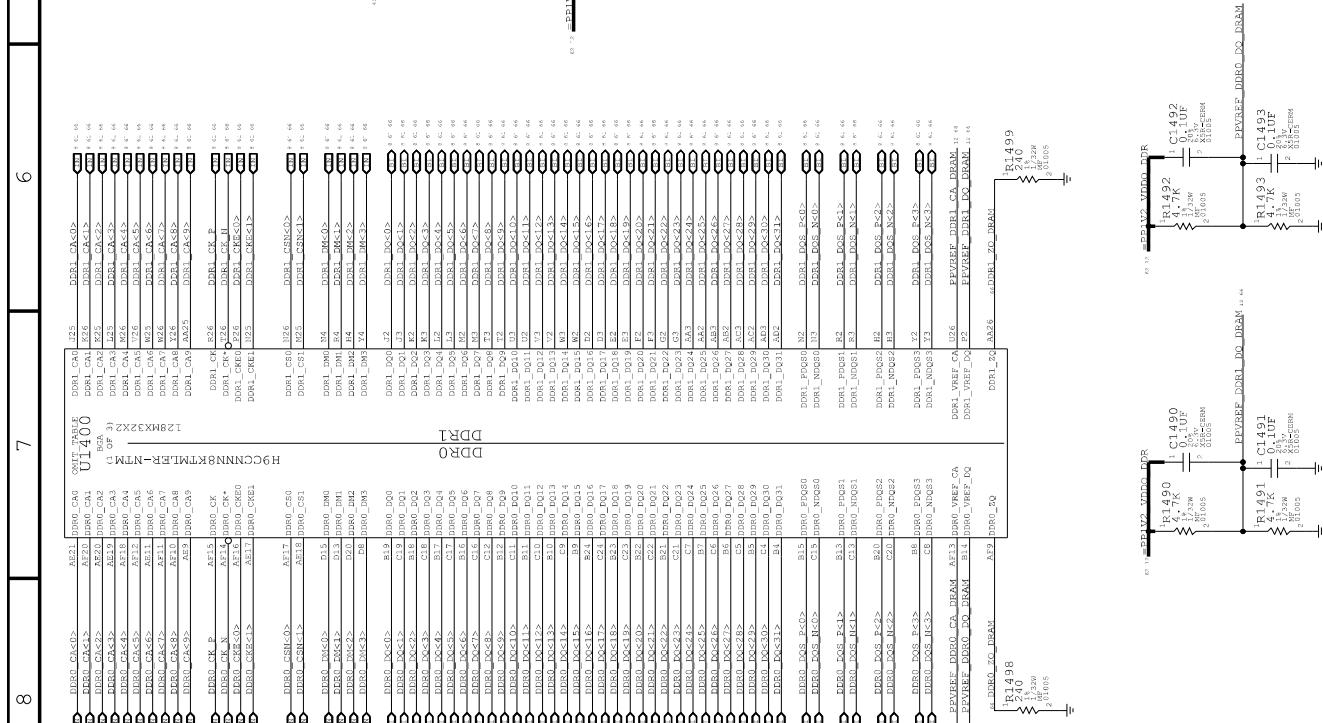
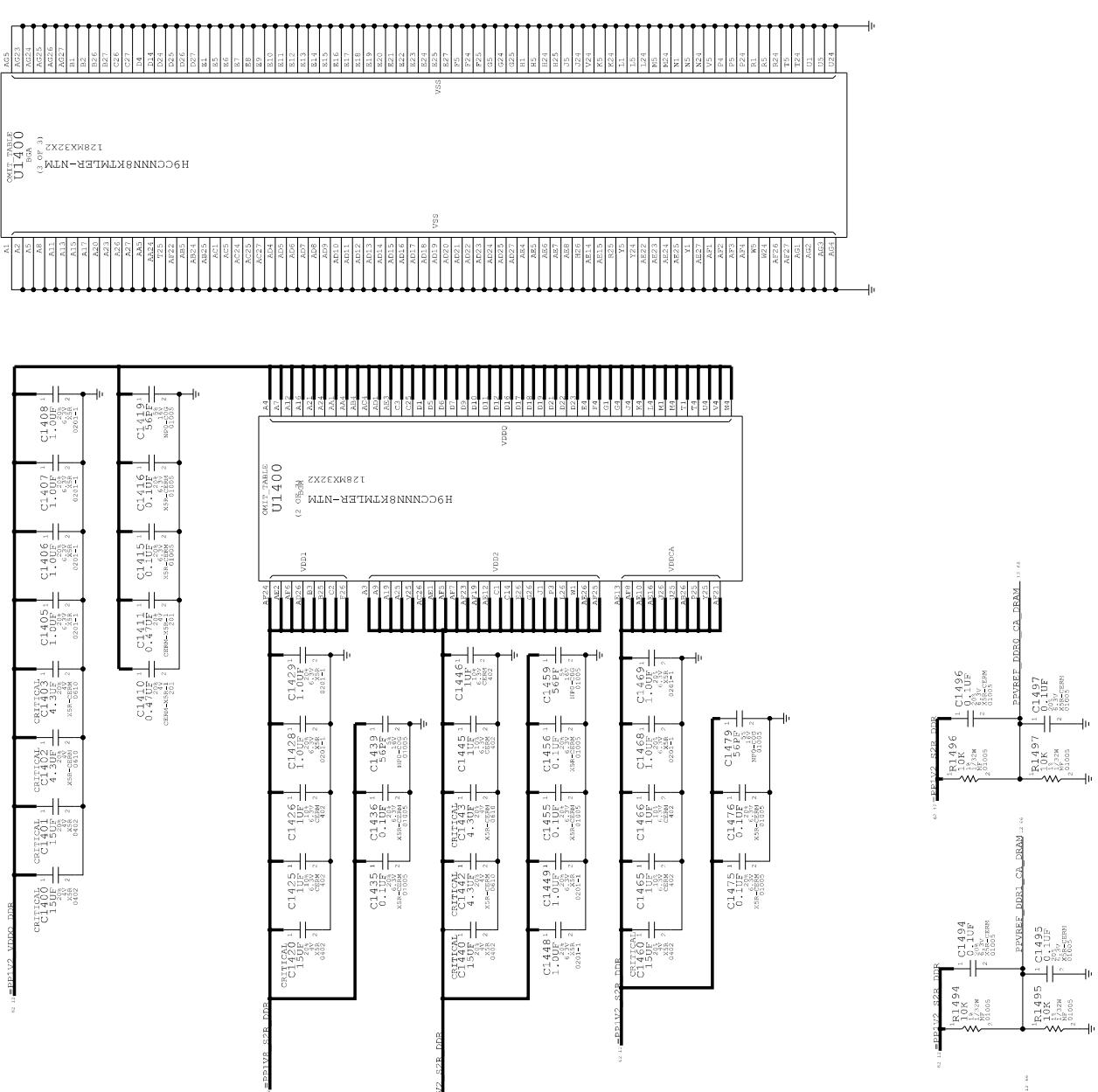


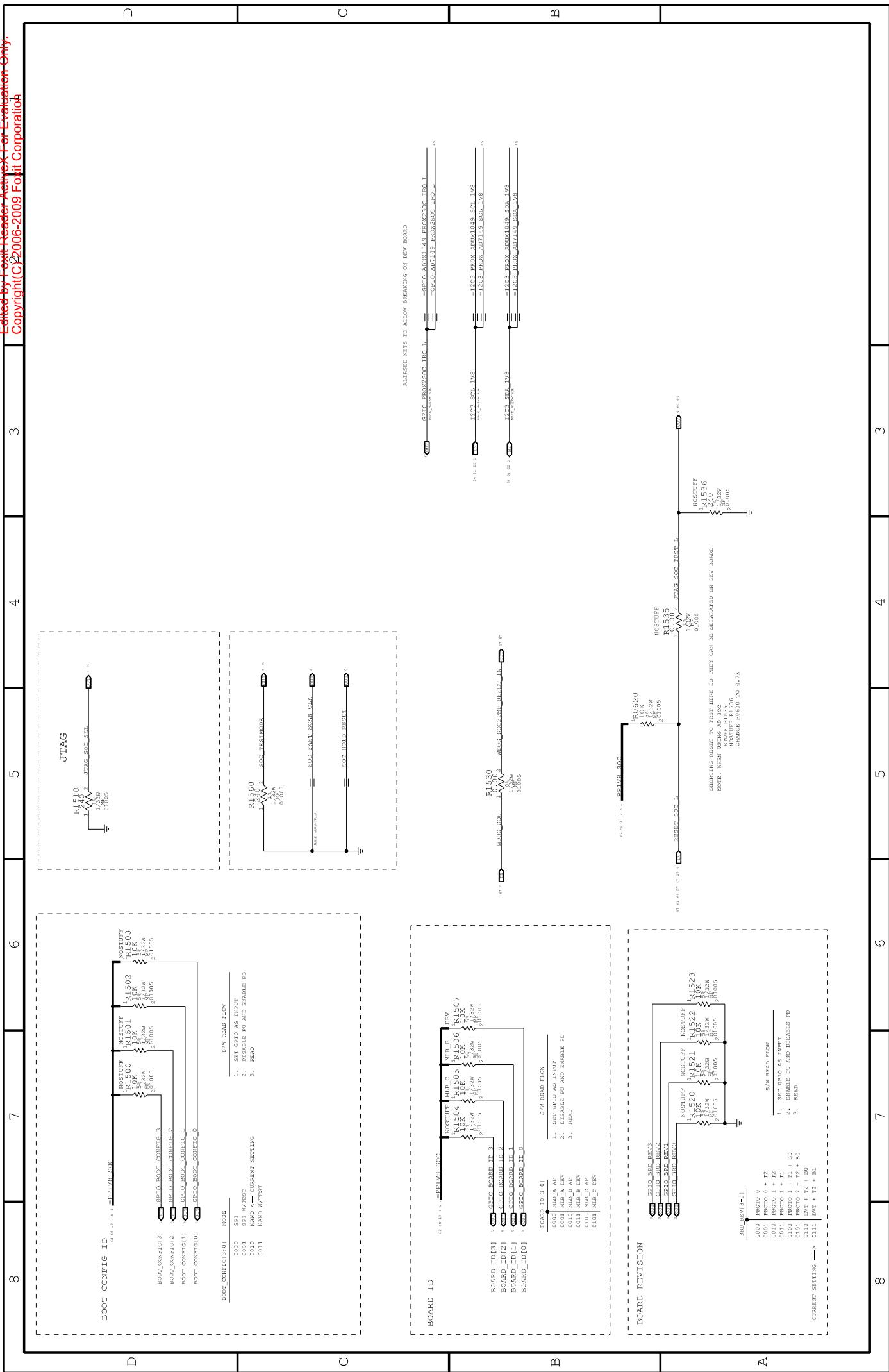
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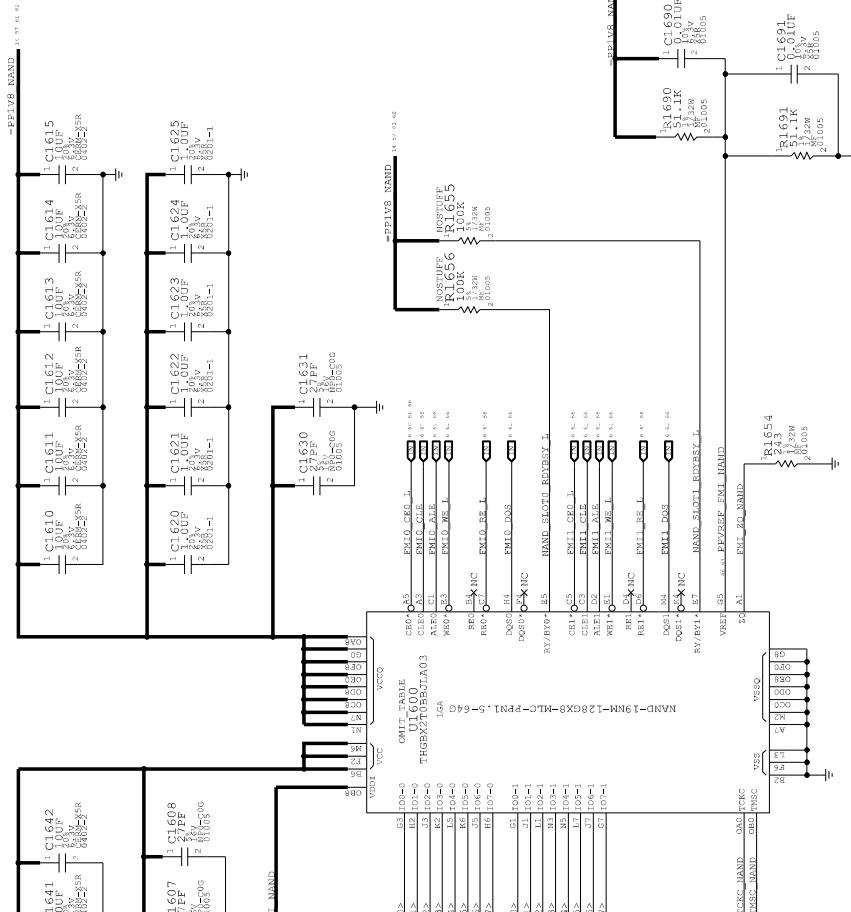






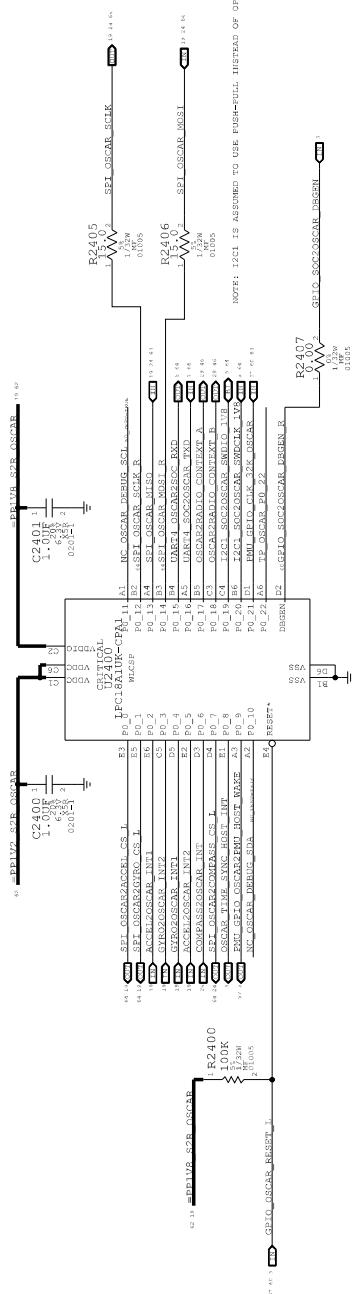




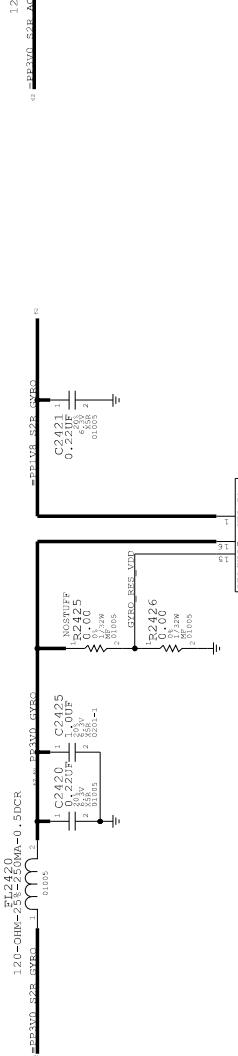


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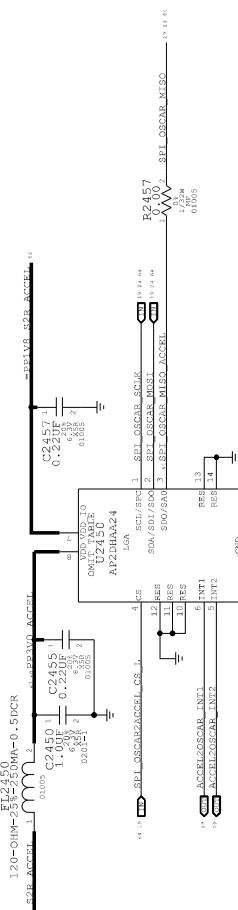
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GYRO



ACCELEROMETER



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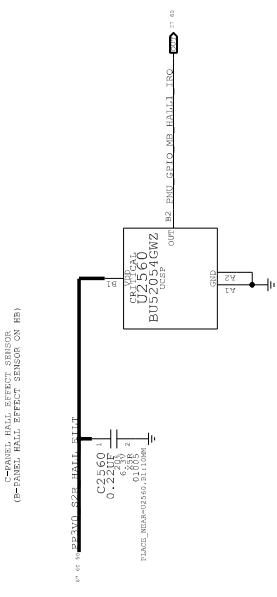
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HALL EFFECT

BIPOLAR ONE OUTPUT AFN 353S3637



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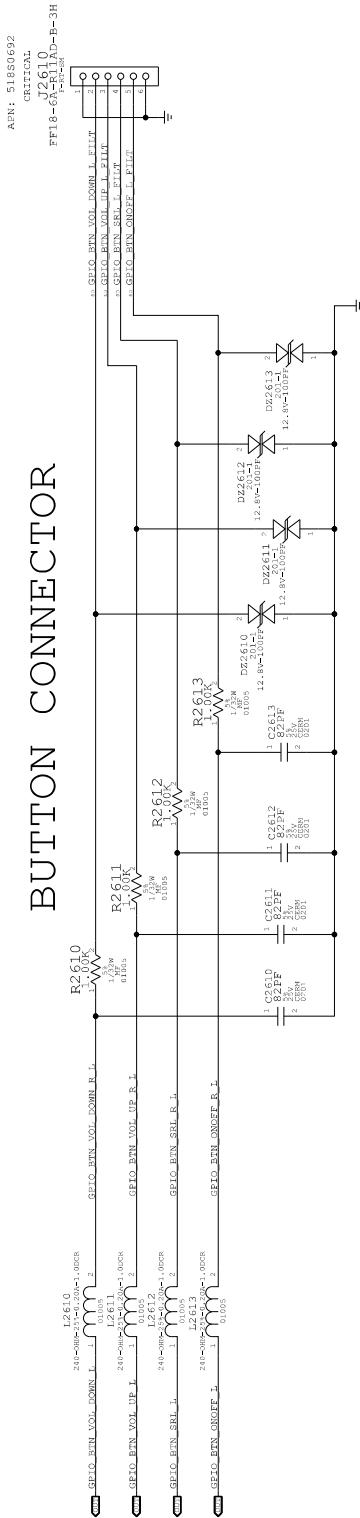
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BUTTON CONNECTOR



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B

A

B

C

B

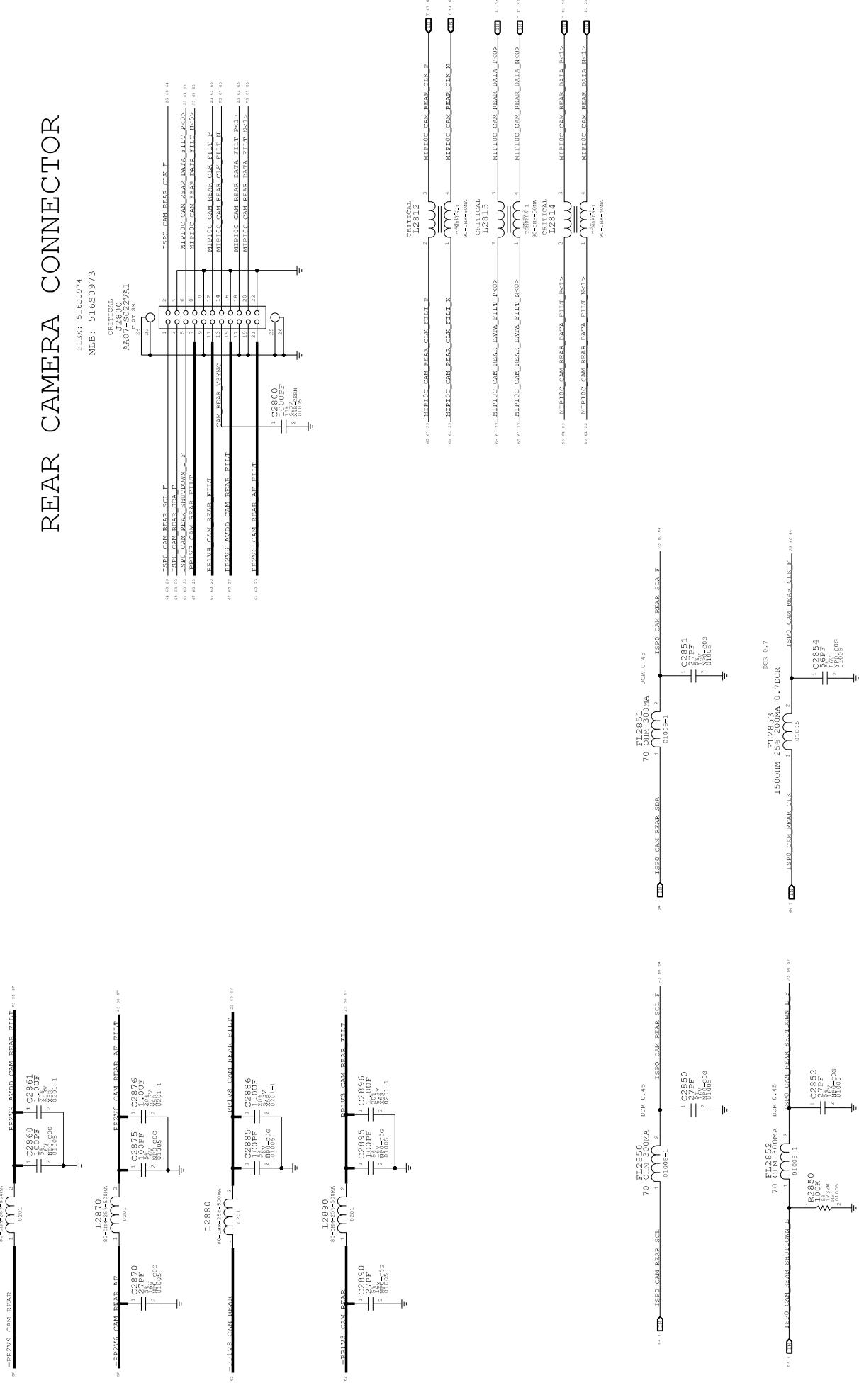
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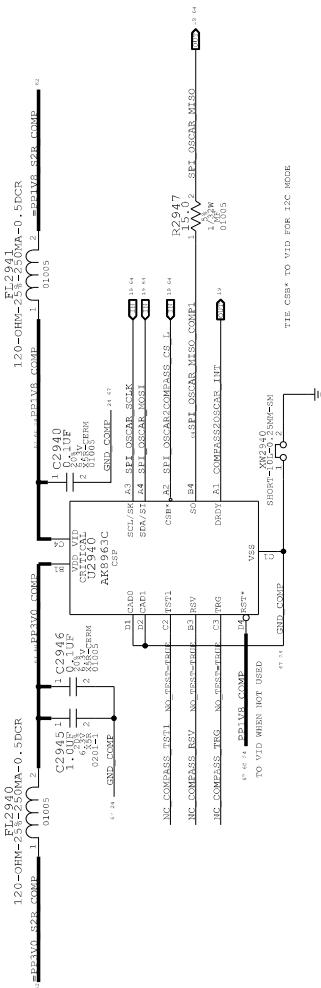
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REAR CAMERA CONNECTOR



COMPASS

PN 338S1014



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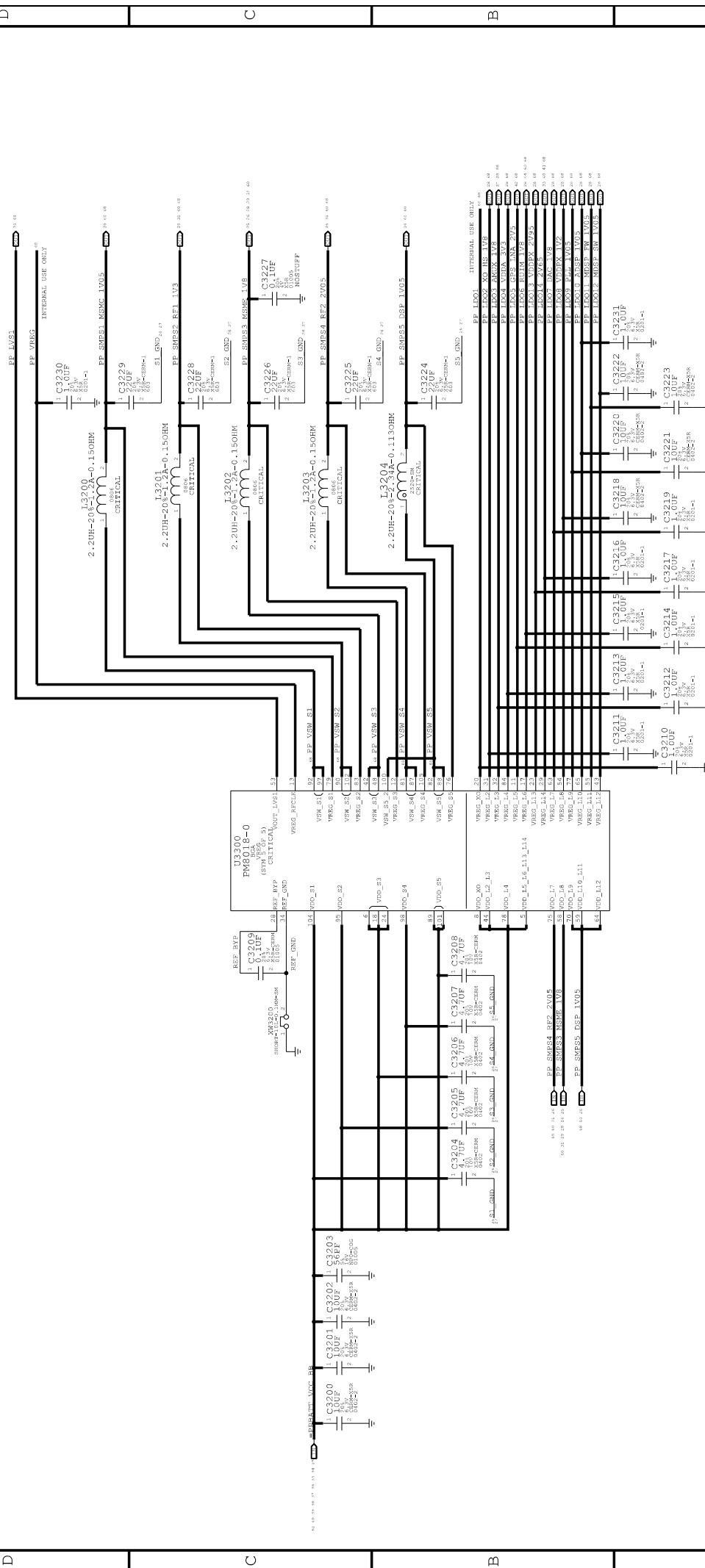
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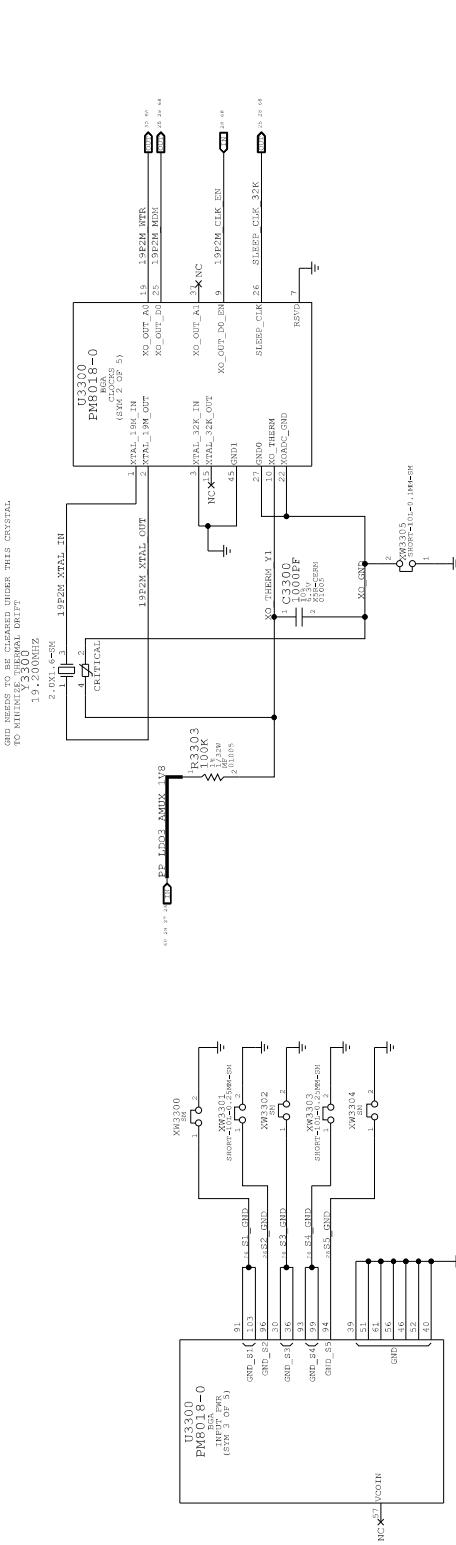
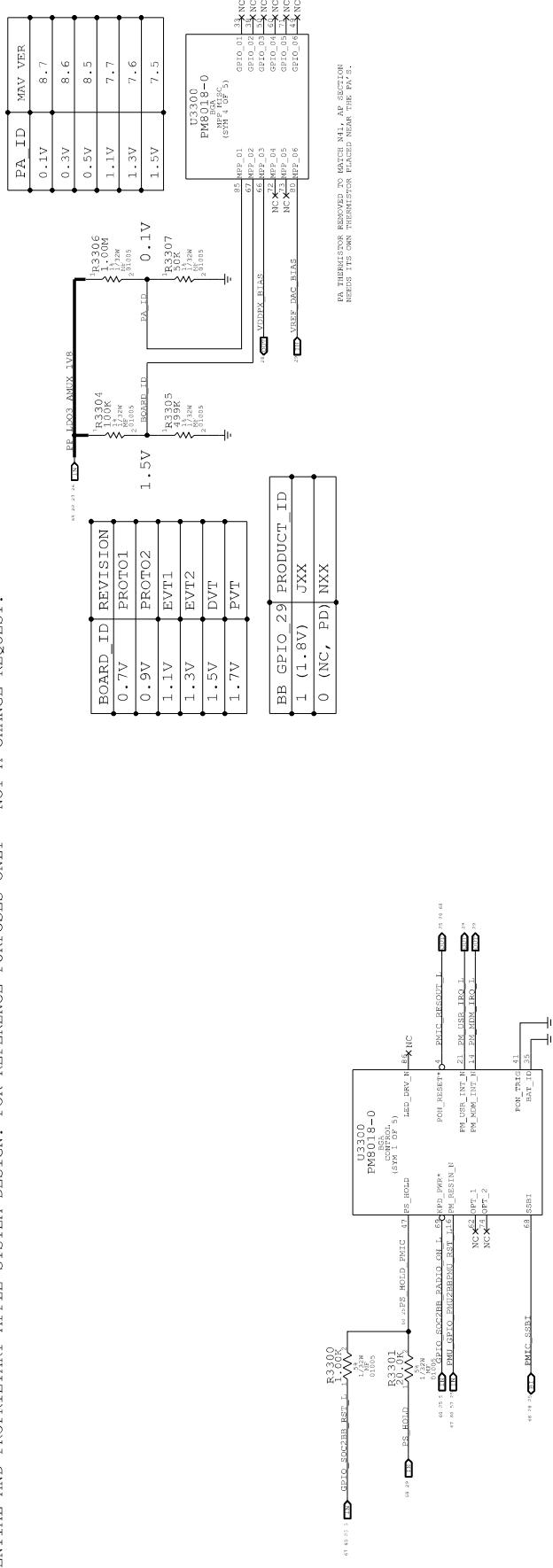
BASEBAND PMU (1 OF 2)

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BASEBAND PMU (2 OF 2) CONFIDENTIAL AND PROPRIETARY APPF SYSTEM DESIGN FOR REFERENCE

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



BASEBAND (1 OF 2)

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

MD9615M

<1>

FWR

VDD_MSP

VDD_ADSR

VDD_AS55

VDD_BB

VDD_BIAS

VDD_COPRE

VDD_I2C

VDD_MSP_SW

VDD_PWD

VDD_QUSB

VDD_SMP2

VDD_SMP3

VDD_VDD

VDD_VDD2

VDD_VDD3

VDD_VDD4

VDD_VDD5

VDD_VDD6

VDD_VDD7

VDD_VDD8

VDD_VDD9

VDD_VDDA

VDD_VDDB

VDD_VDDC

VDD_VDDD

VDD_VDDE

VDD_VDDF

VDD_VDDG

VDD_VDDH

VDD_VDDI

VDD_VDDJ

VDD_VDDK

VDD_VDDL

VDD_VDDM

VDD_VDDN

VDD_VDDO

VDD_VDDP

VDD_VDDQ

VDD_VDDR

VDD_VDDS

VDD_VDDT

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VDD_VDDX

VDD_VDDY

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VDD_VDDFF

VDD_VDDGG

VDD_VDDHH

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VDD_VDDJJ

VDD_VDDKK

VDD_VDDLL

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VDD_VDDXX

VDD_VDDYY

VDD_VDDZZ

VDD_VDDAAA

VDD_VDDBBB

>6>

VDD_VDDCC

VDD_VDDDD

VDD_VDDEE

VDD_VDDFF

VDD_VDDGG

VDD_VDDHH

VDD_VDDII

VDD_VDDJJ

VDD_VDDKK

VDD_VDDLL

VDD_VDDMM

VDD_VDDNN

VDD_VDDOO

VDD_VDDPP

VDD_VDDQQ

VDD_VDDRR

VDD_VDDSS

VDD_VDDTT

VDD_VDDUU

VDD_VDDVV

VDD_VDDWW

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VDD_VDDYY

VDD_VDDZZ

VDD_VDDAAA

VDD_VDDBBB

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VDD_VDDCC

VDD_VDDDD

VDD_VDDEE

VDD_VDDFF

VDD_VDDGG

VDD_VDDHH

VDD_VDDII

VDD_VDDJJ

VDD_VDDKK

VDD_VDDLL

VDD_VDDMM

VDD_VDDNN

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VDD_VDDPP

VDD_VDDQQ

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VDD_VDDAAA

VDD_VDDBBB

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VDD_VDDCC

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VDD_VDDGG

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VDD_VDDII

VDD_VDDJJ

VDD_VDDKK

VDD_VDDLL

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VDD_VDDNN

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VDD_VDDPP

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VDD_VDDRR

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VDD_VDDTT

VDD_VDDUU

VDD_VDDVV

VDD_VDDWW

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VDD_VDDYY

VDD_VDDZZ

VDD_VDDAAA

VDD_VDDBBB

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VDD_VDDCC

VDD_VDDDD

VDD_VDDEE

VDD_VDDFF

VDD_VDDGG

VDD_VDDHH

VDD_VDDII

VDD_VDDJJ

VDD_VDDKK

VDD_VDDLL

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VDD_VDDRR

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VDD_VDDTT

VDD_VDDUU

VDD_VDDVV

VDD_VDDWW

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VDD_VDDYY

VDD_VDDZZ

VDD_VDDAAA

VDD_VDDBBB

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VDD_VDDCC

VDD_VDDDD

VDD_VDDEE

VDD_VDDFF

VDD_VDDGG

VDD_VDDHH

VDD_VDDII

VDD_VDDJJ

VDD_VDDKK

VDD_VDDLL

VDD_VDDMM

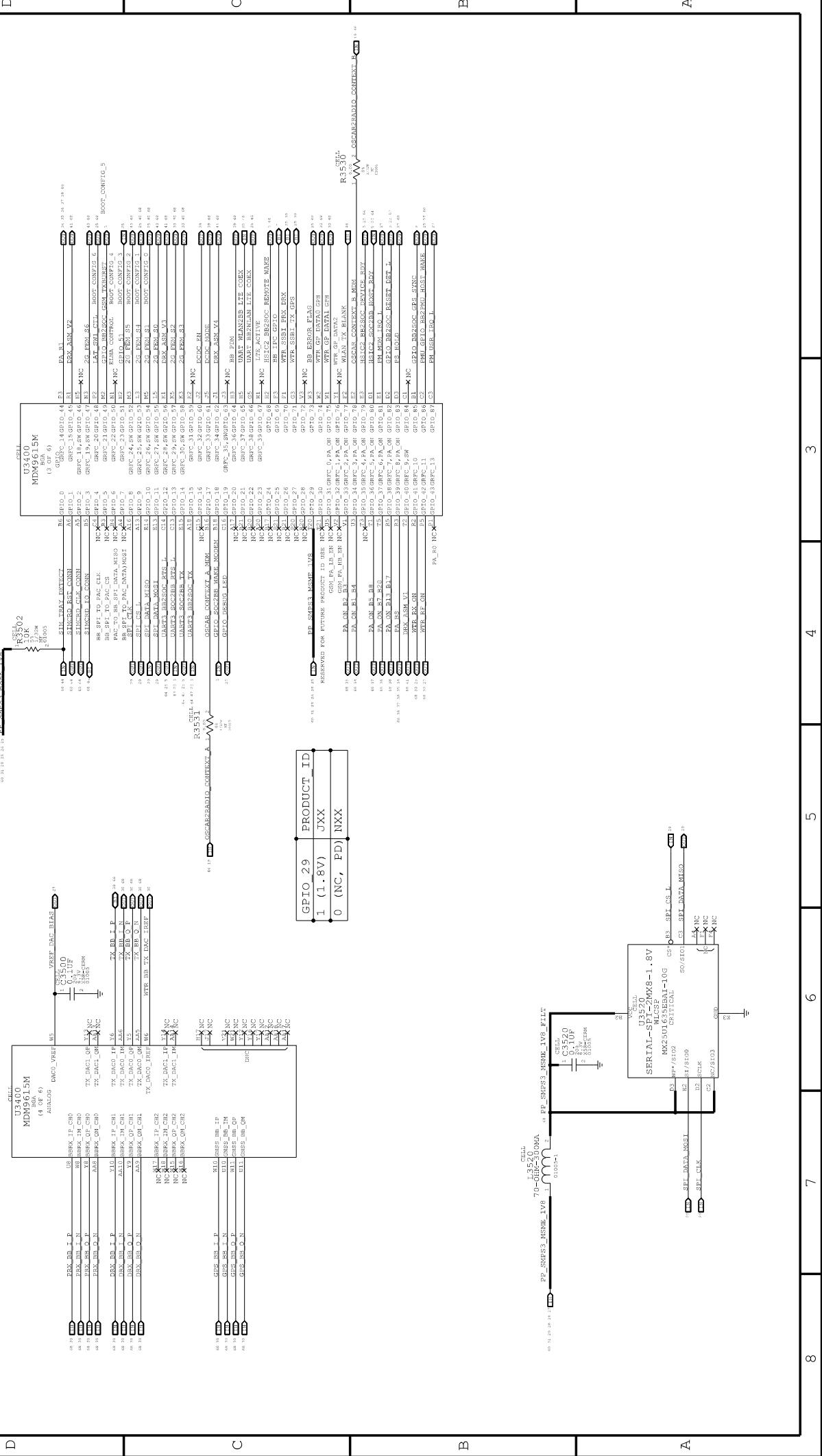
VDD_VDDNN

VDD_V

BASEBAND (2 OFF 2)

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

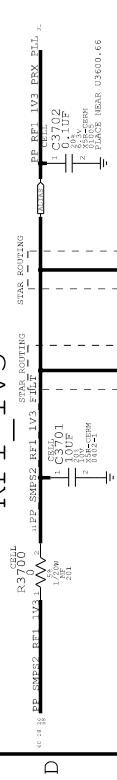
REF. SMD531 MSME 1V8 70-3520 CELL



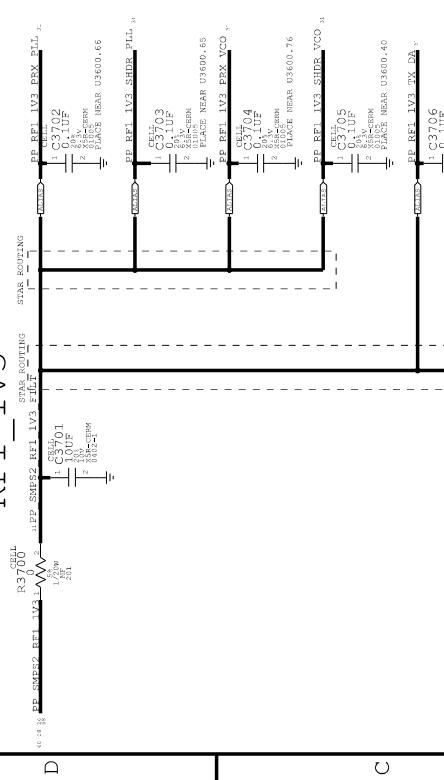
RF TRANSCEIVER (2 OF 2)

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RF1_1V3



RF1_1V8

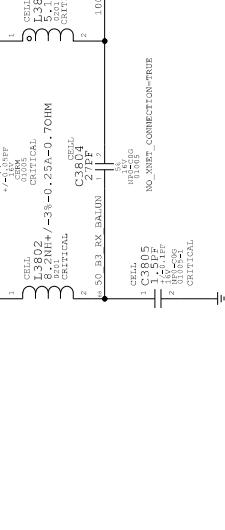
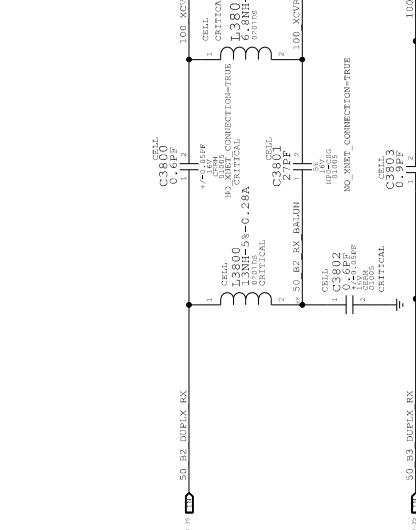
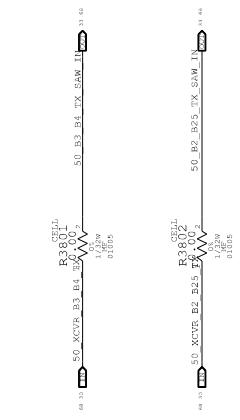
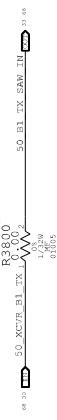


RF2_2V05

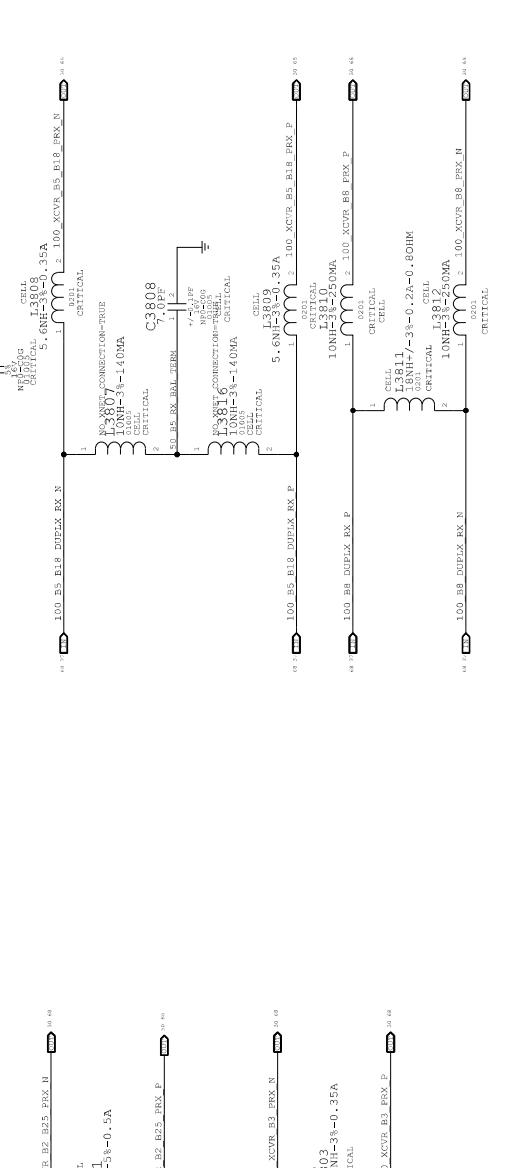
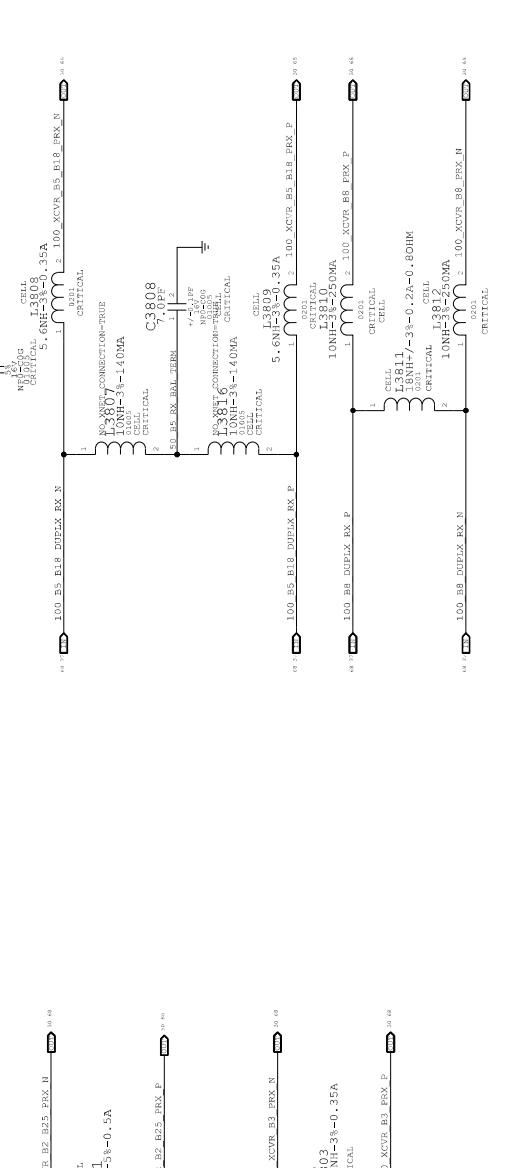
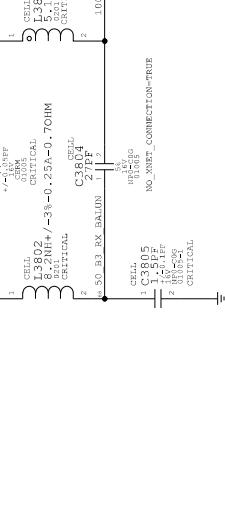
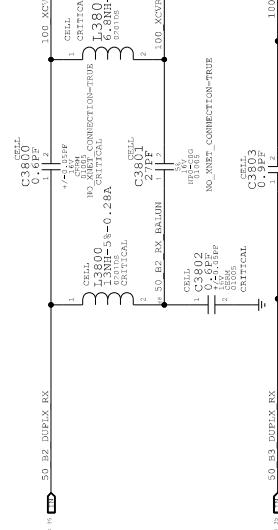


TRANSCEIVER TX AND RX MATCHING NETWORKS

TX MATCHING NETWORKS



RX MATCHING NETWORKS

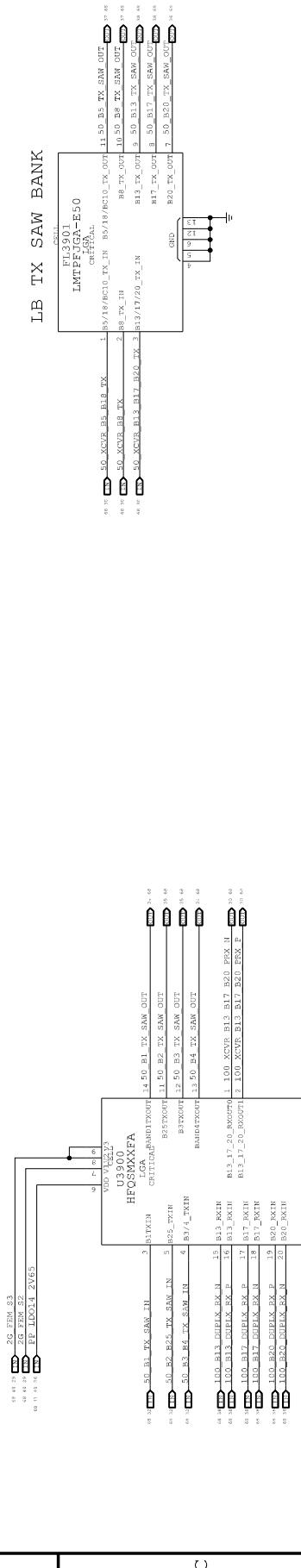


SAW BANK

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

D

B13/B17/B20 DP6T SWITCH AND MATCHING
HB TX SAW BANK +



C

BAND	V3=V2	V1
B3 TX	HIGH	X
B4 TX	LOW	X
B13 RX	HIGH	HIGH
B17 RX	HIGH	LOW
B20 RX	LOW	HIGH

B



C

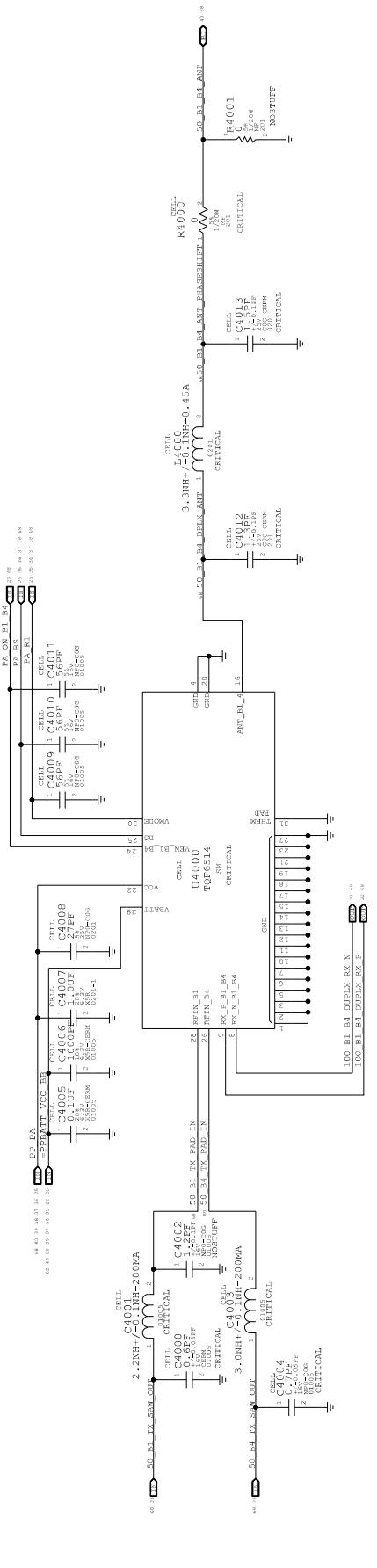
D

B

A

BAND 1 / 4 PAD

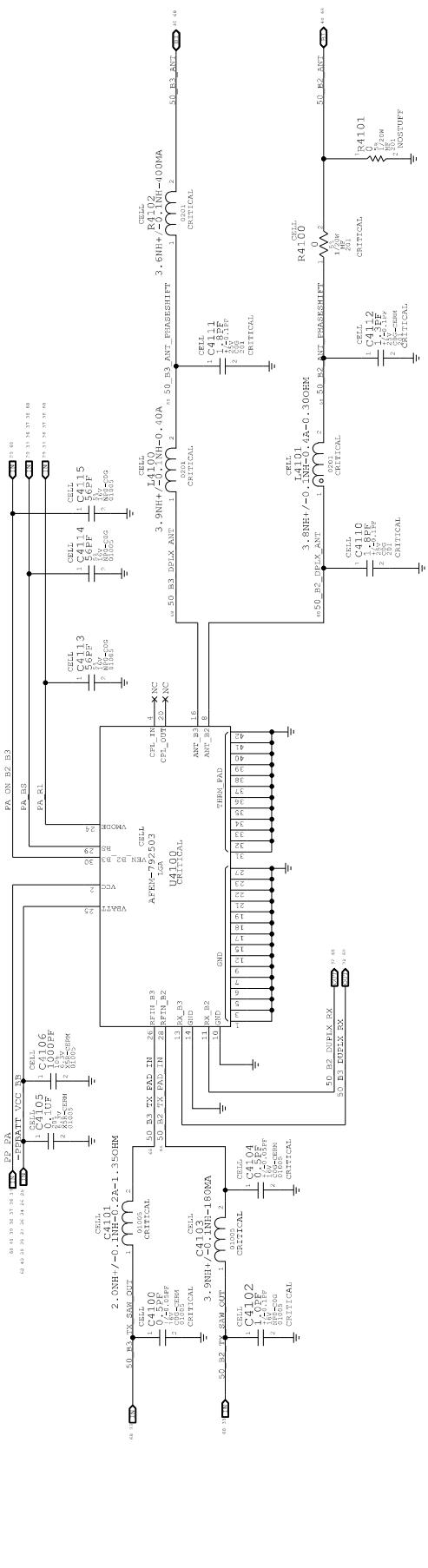
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.



BAND	PA	POWER MODE	PA_BS	PA_ON	B1_B4	PA_R1
POWER DOWN	X		0	0	0	0
STANDBY	X		X	0	1	X
B4	HPM		0	0	1	0
B4	LPM		0	1	1	1
B1	HPM		1	1	1	1
B1	LPM		1	1	1	1

BAND 2 / 3 PAD

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

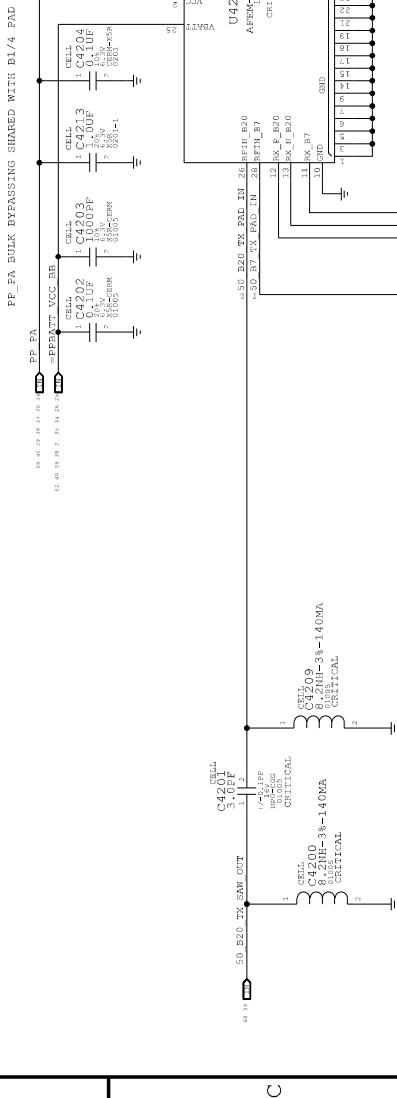


BAND	PA	POWER	MODE	PA	BS	PA	ON	B2	B3	PA	R1
POWER	DOWN	X	X	X						0	
STANDBY										X	X
B3				HPM						0	0
B3				LPM						1	1
B2				HPM						1	1
B2				LPM						1	1

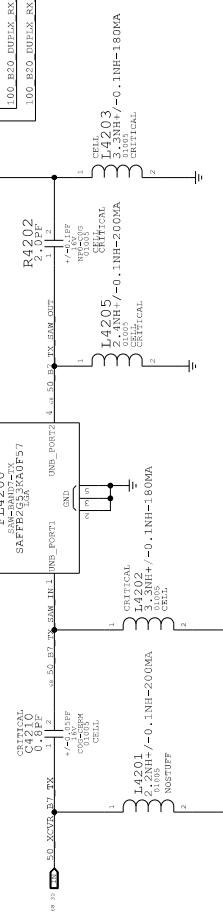
BAND 20/7 PAD

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

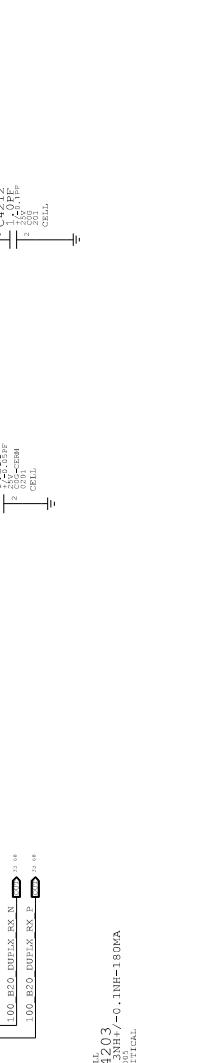
D



C



B



BAND
POWER DOWN
STANDBY
B20
B20

PA_R1
PA_POWER_MODE_PA_ON_B20
LPM_X_HPM_LPM
0_X_0_1
0_X_0_1
0_X_0_1

PA_R2
PA_POWER_MODE_PA_ON_B20
LPM_X_HPM_LPM
0_X_0_1
0_X_0_1
0_X_0_1

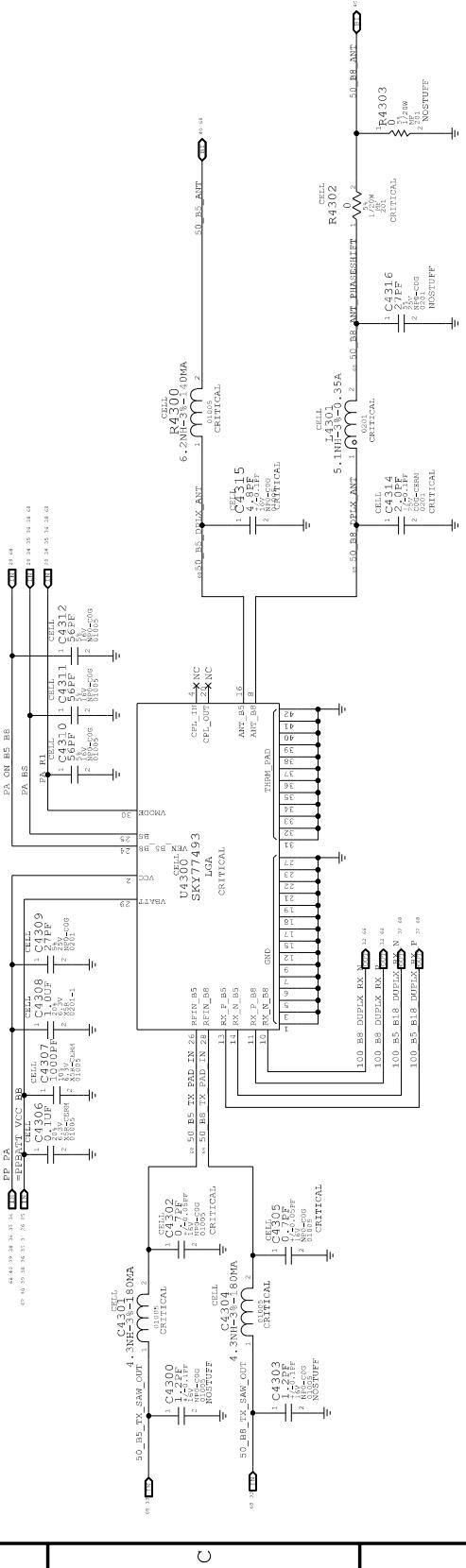
PA_R3
PA_POWER_MODE_PA_ON_B20
LPM_X_HPM_LPM
0_X_0_1
0_X_0_1
0_X_0_1

PA_R4
PA_POWER_MODE_PA_ON_B20
LPM_X_HPM_LPM
0_X_0_1
0_X_0_1
0_X_0_1

BAND 5 / 8 PAD

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

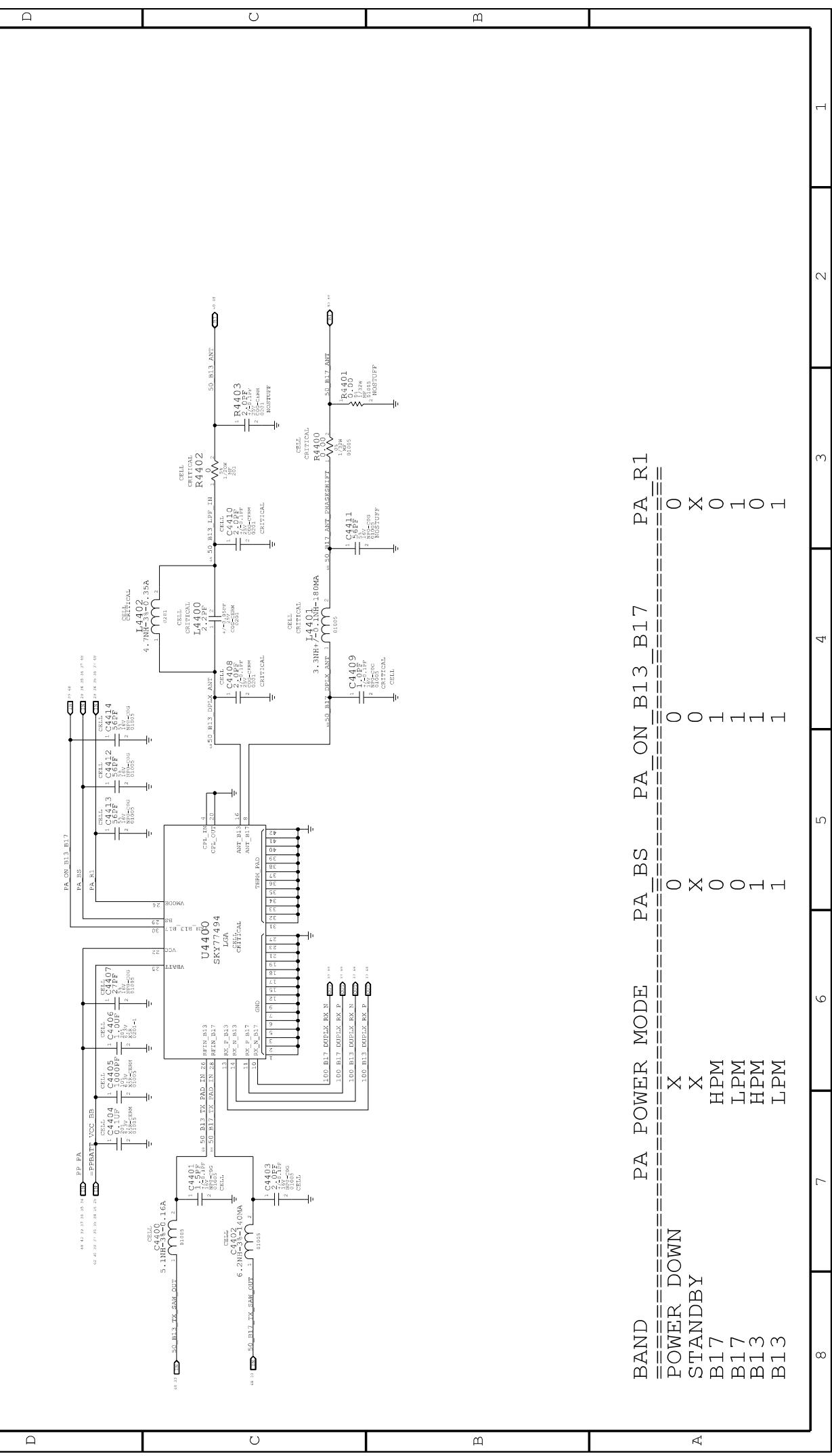
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BAND	POWER	STANDBY	PA	POWER	MODE	PA_BS	PA_ON	B5	B8	PA_R1
POWER_DOWN	X					0	0	0	0	0
STANDBY		X				X	0	1	1	X
B5				HPM			0	1	1	0
B5				LPM			0	1	1	1
B8				HPM			1	1	1	1
B8				LPM			1	1	1	1

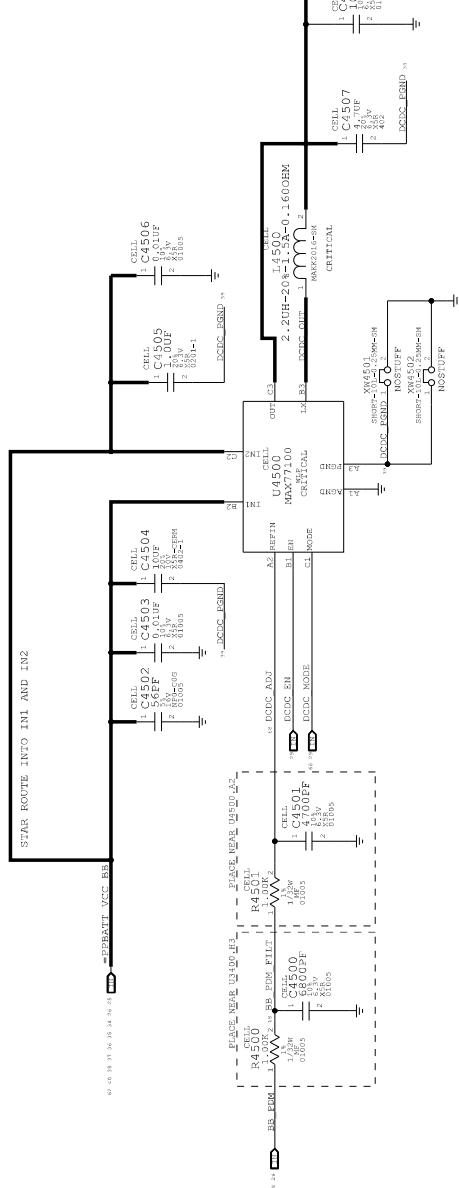
BAND 13 / 17 PAD

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PA DC / DC CONVERTER

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



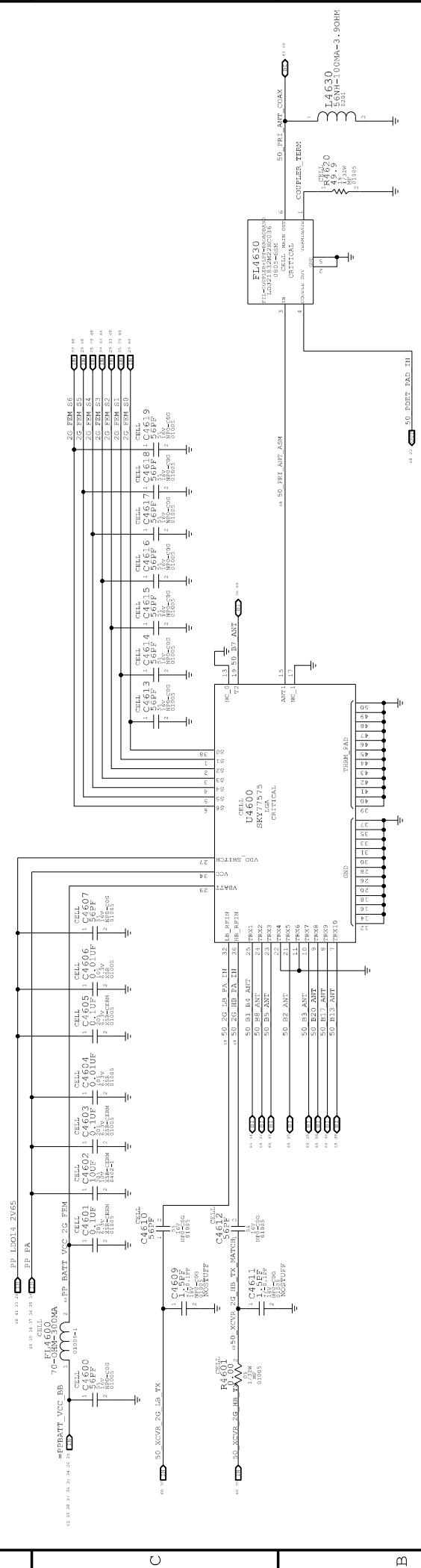
2G FEM

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

D 2G FEM

D

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B

B

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C

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D

RX DIVERSITY

D

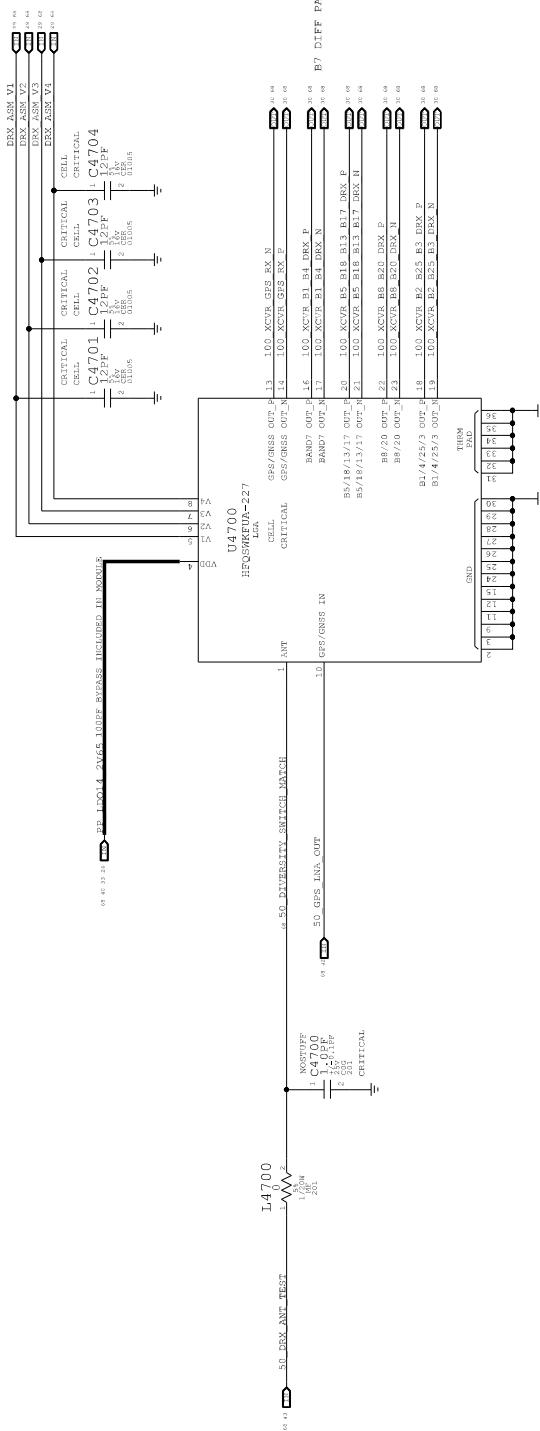
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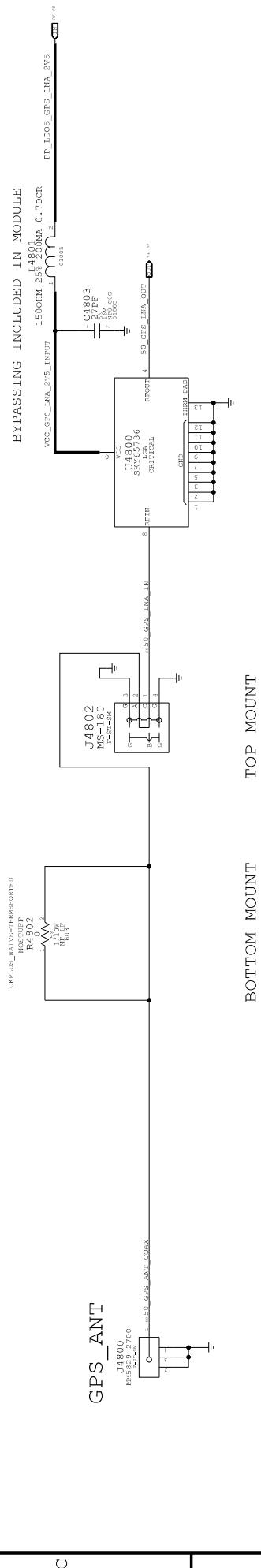
NEED TO UPDATE

	BAND	DRX ASM V4	DRX ASM V3	DRX ASM V2	DRX ASM V1
	B1/B4	LOW	LOW	LOW	LOW
	B2/B5	LOW	HIGH	LOW	LOW
	B3	HIGH	LOW	LOW	LOW
	B5/6/18	LOW	LOW	HIGH	LOW
	B8	LOW	LOW	LOW	HIGH
	B13/17	LOW	HIGH	HIGH	HIGH
	B20	LOW	HIGH	HIGH	LOW
	OFF	LOW	LOW	HIGH	HIGH

SWITCH IS TERMINATED IN ALL OTHER POSSIBLE STATES

S
P
G

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ANTENNA FEEDS

DRX_ANT COAX



PRI_ANT COAX



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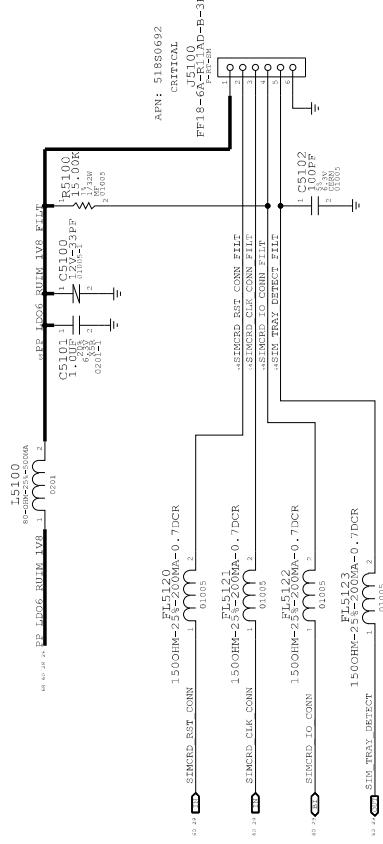
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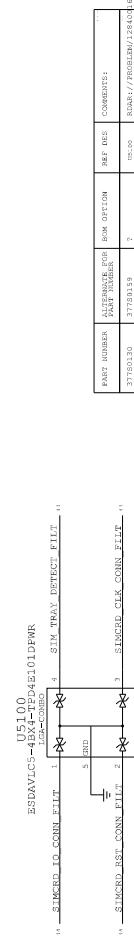
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SIM CARD FLEX CONN



SIM CARD ESD PROTECTION



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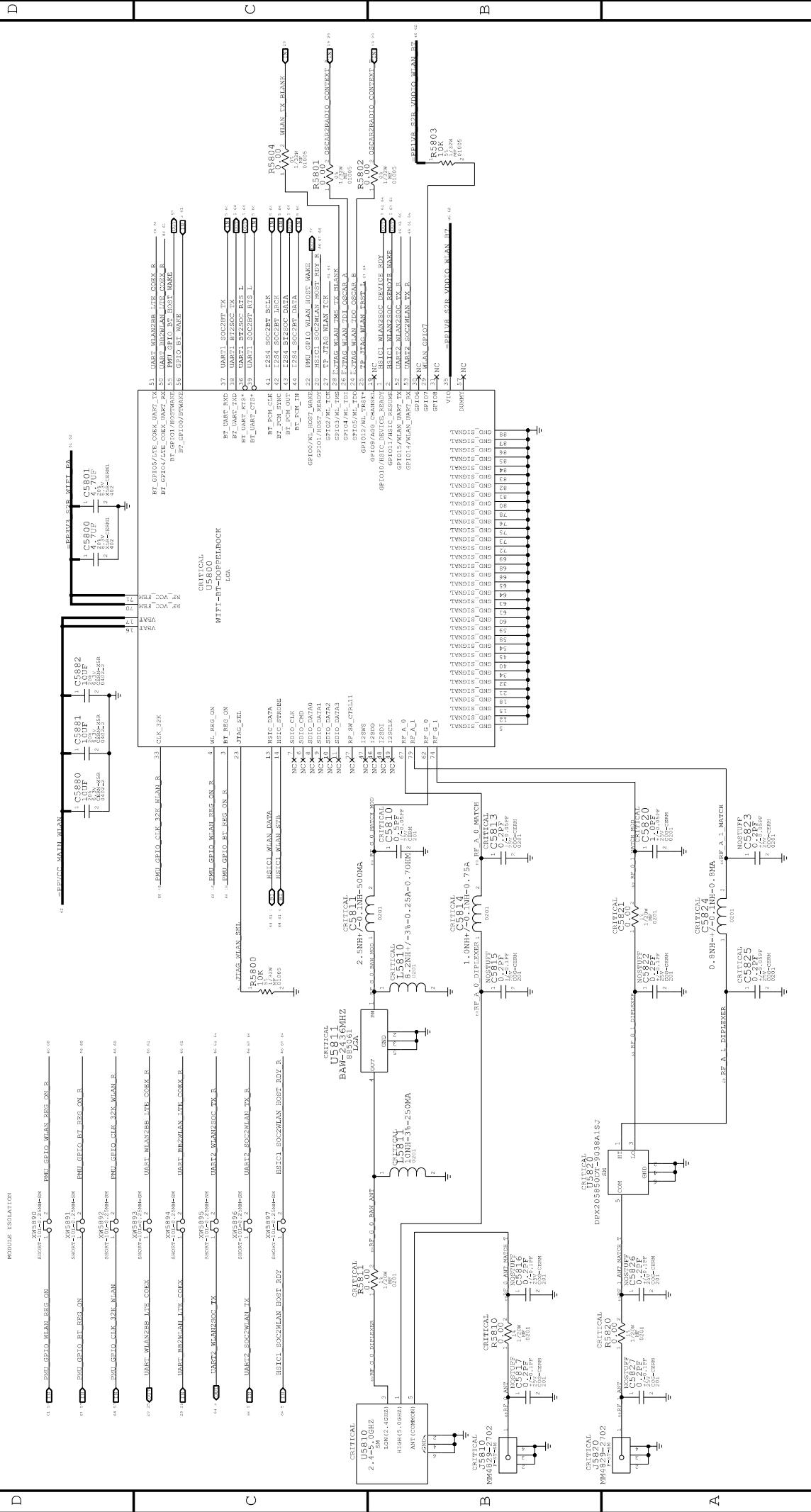
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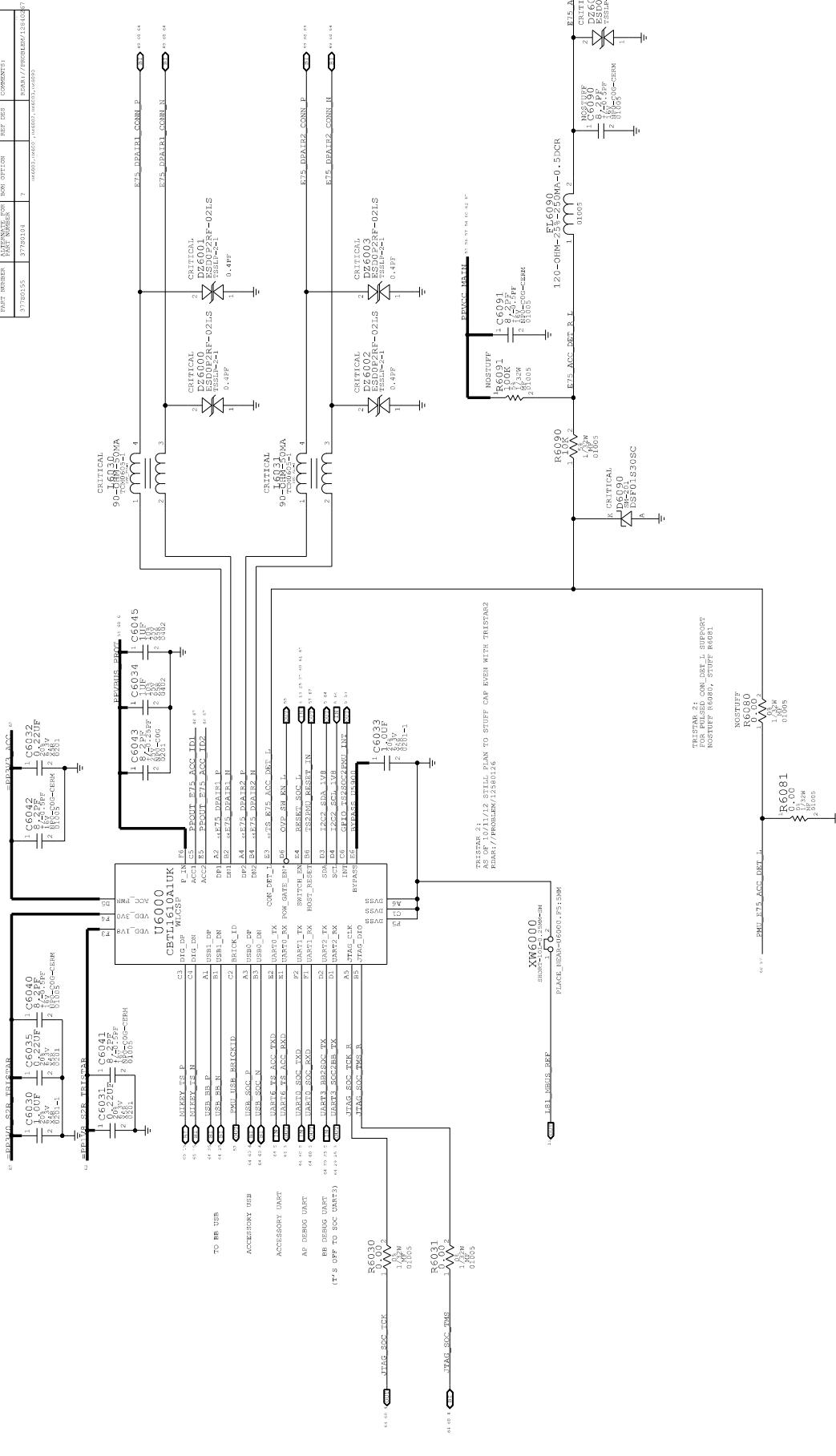
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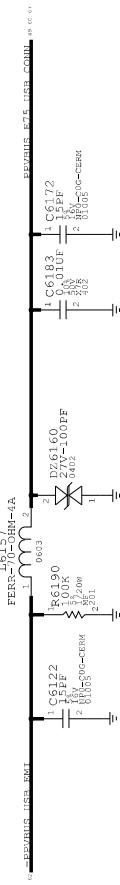
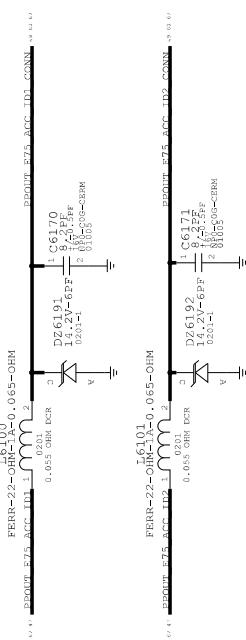
A

WIFI / BT : MODULE

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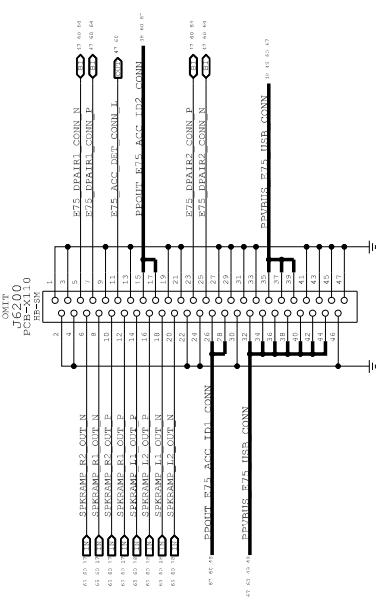
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IO FLEX HOTBAR PADS
MLB 998-5877
FLEX 998-5876

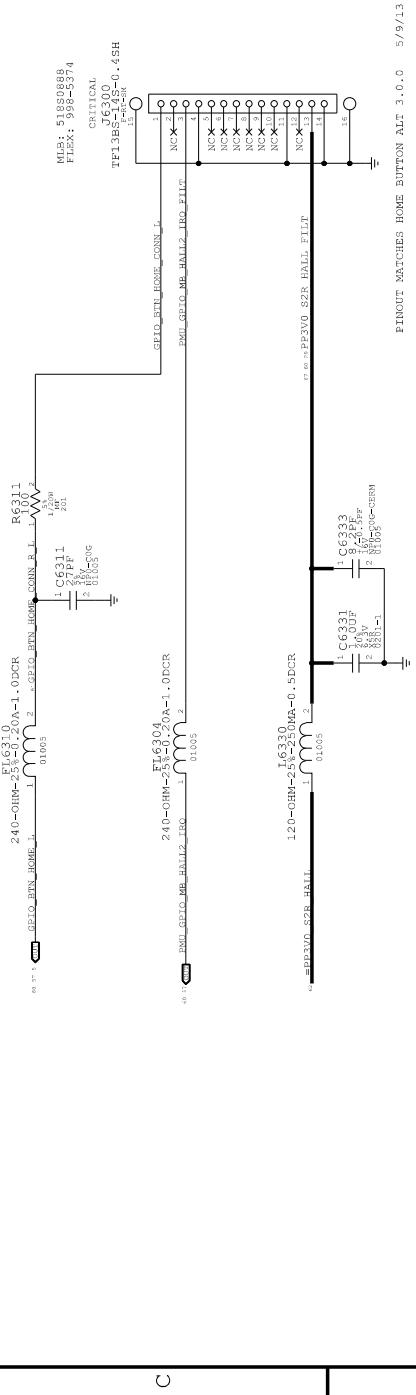


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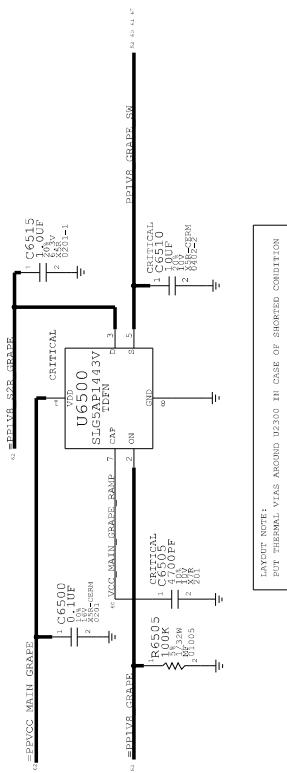
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GRAPE CONNECTOR SUPPORT



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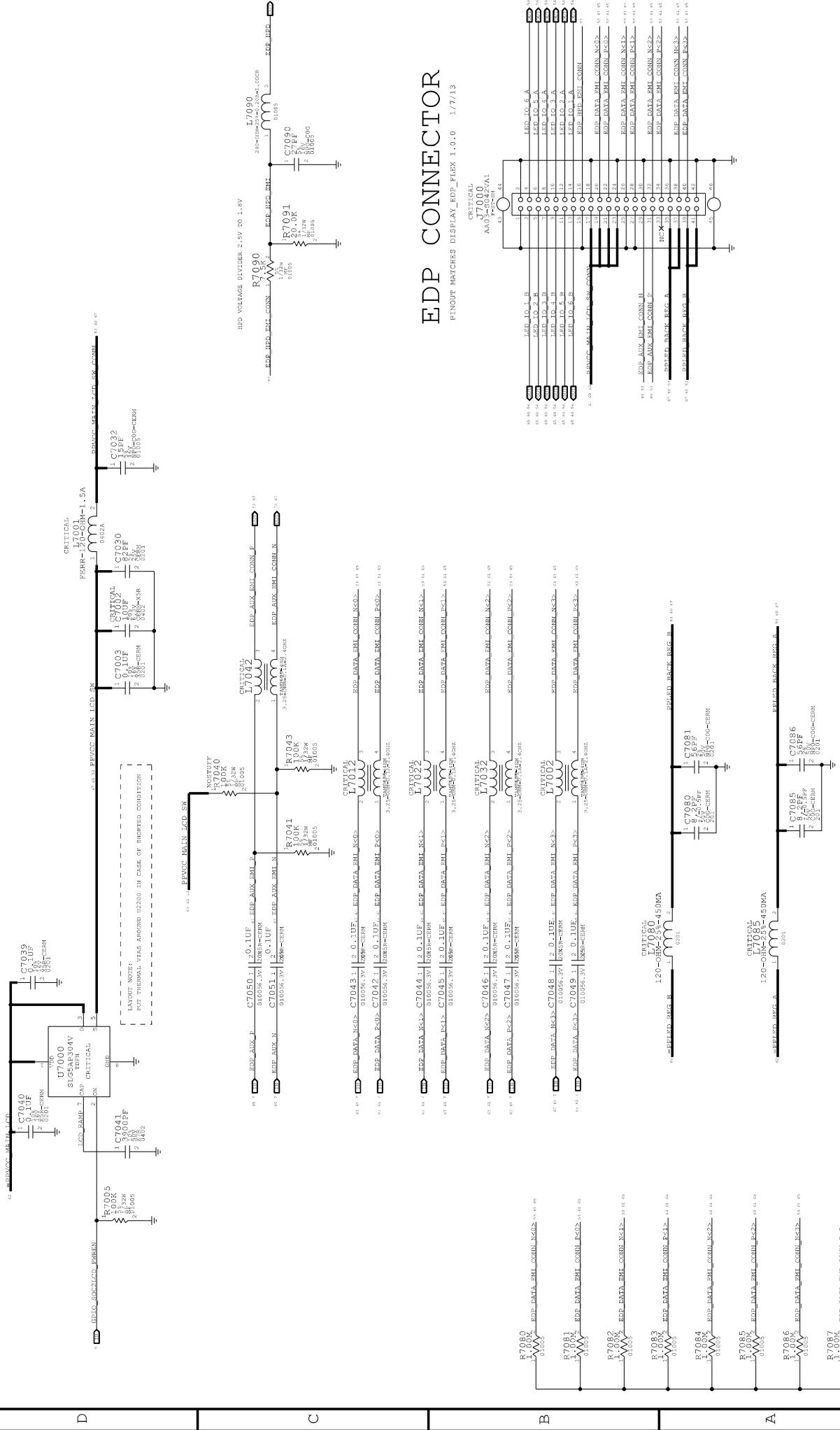
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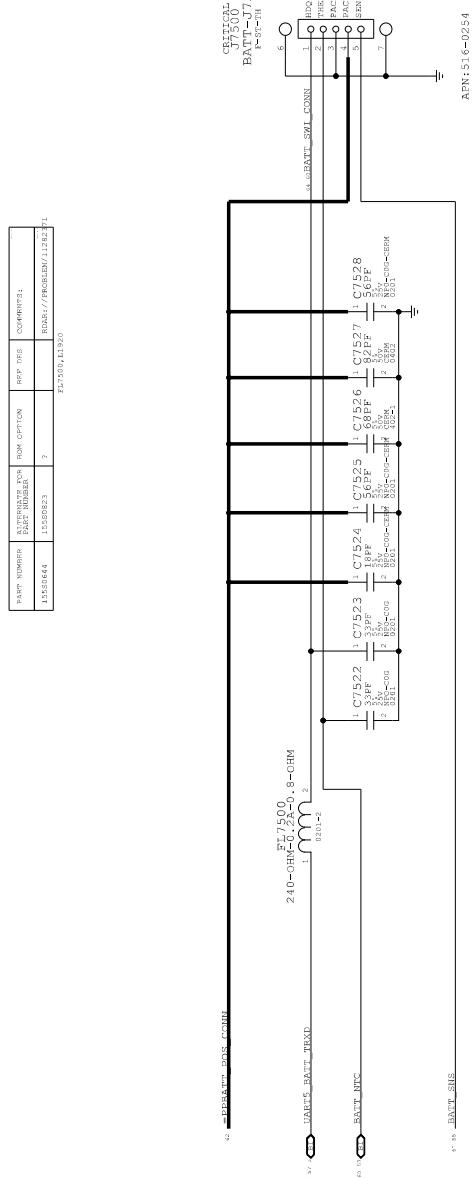
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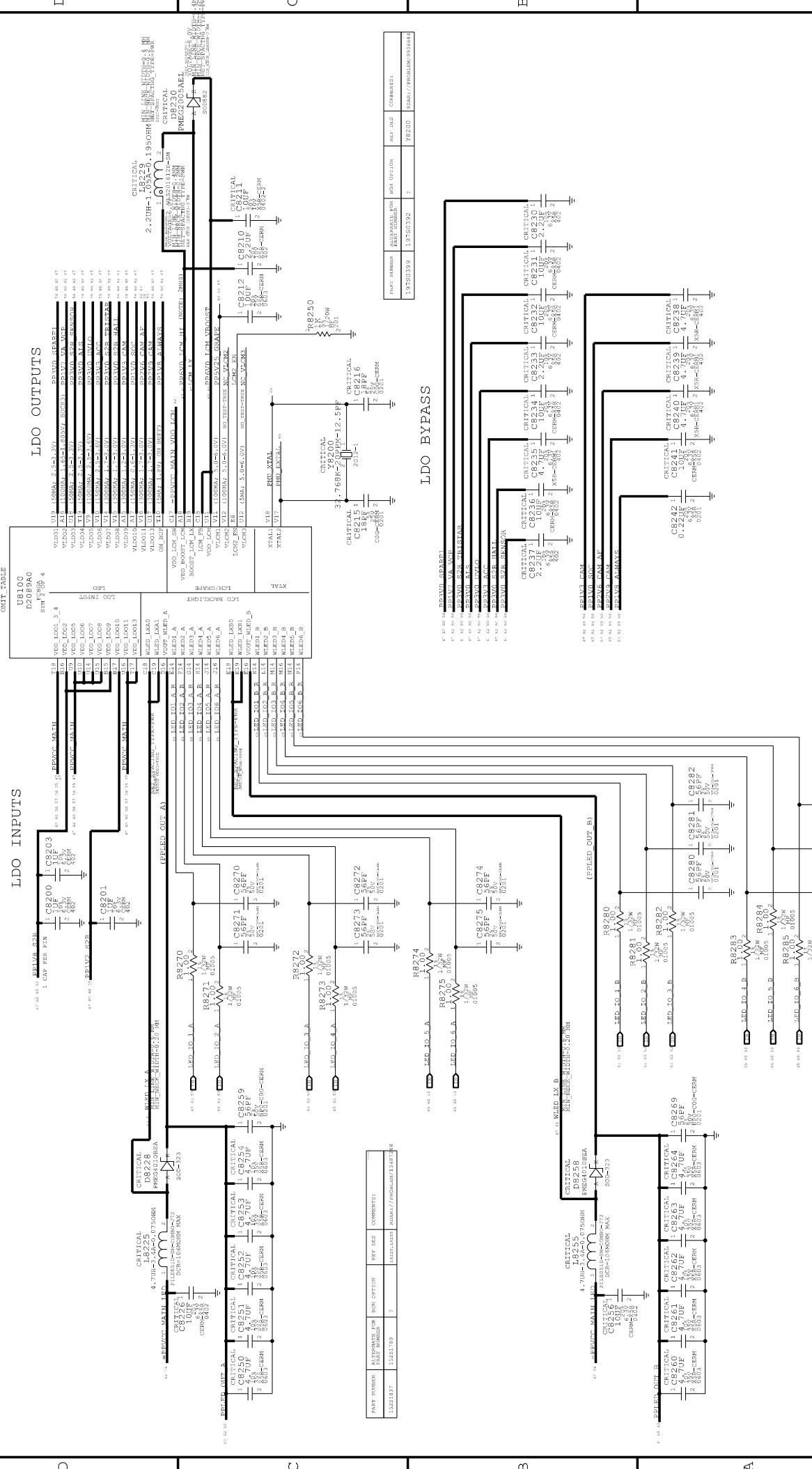
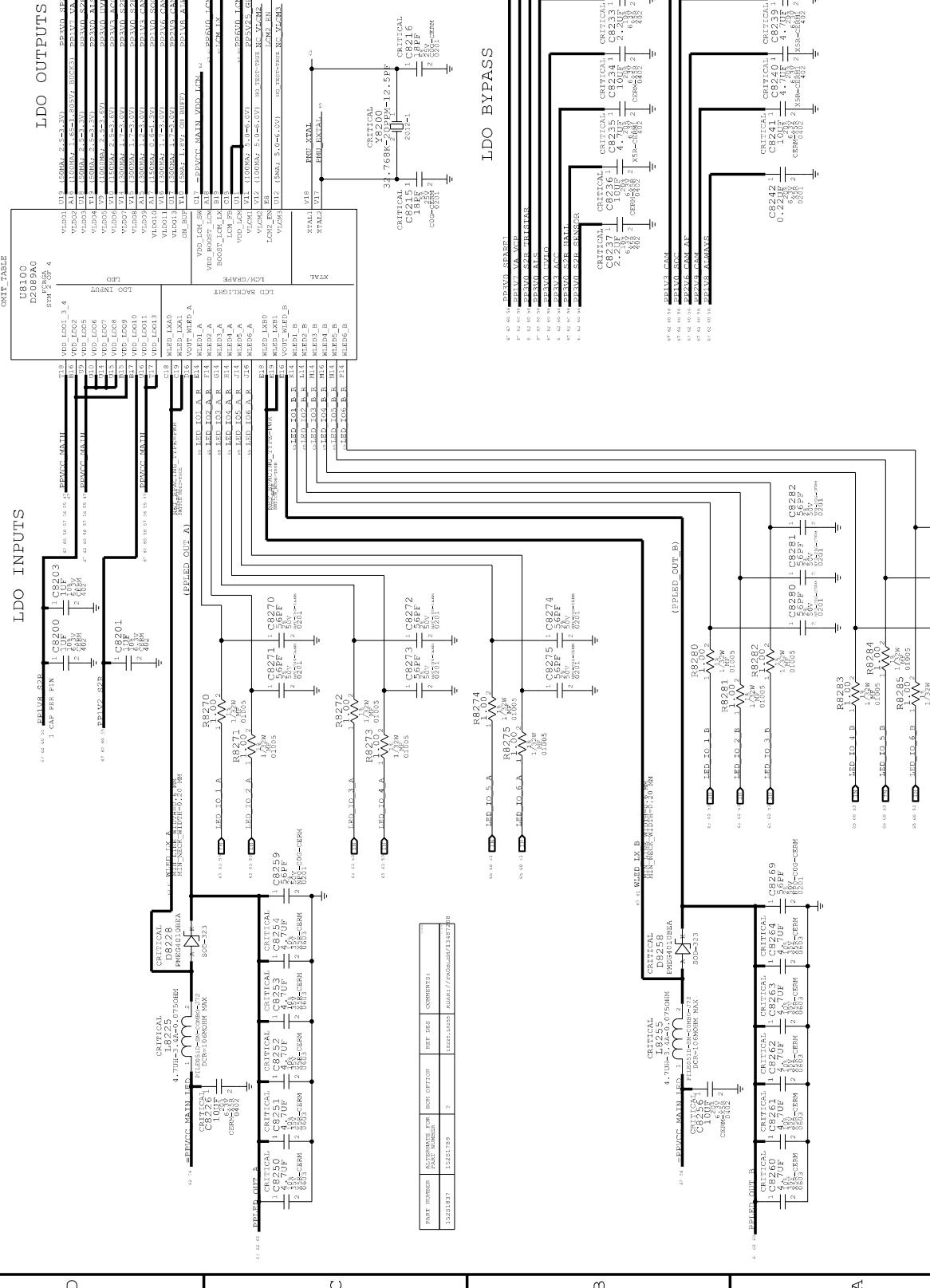
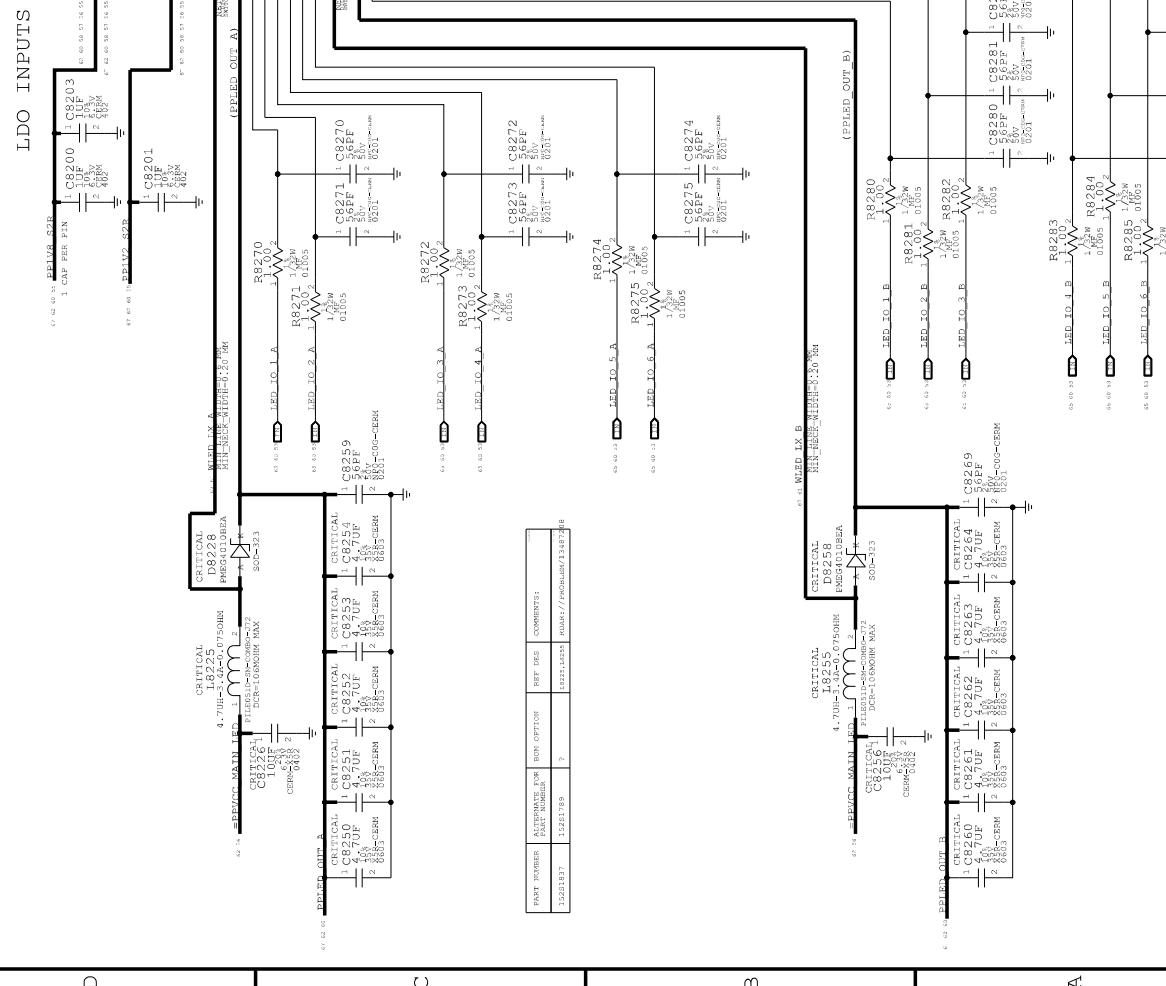
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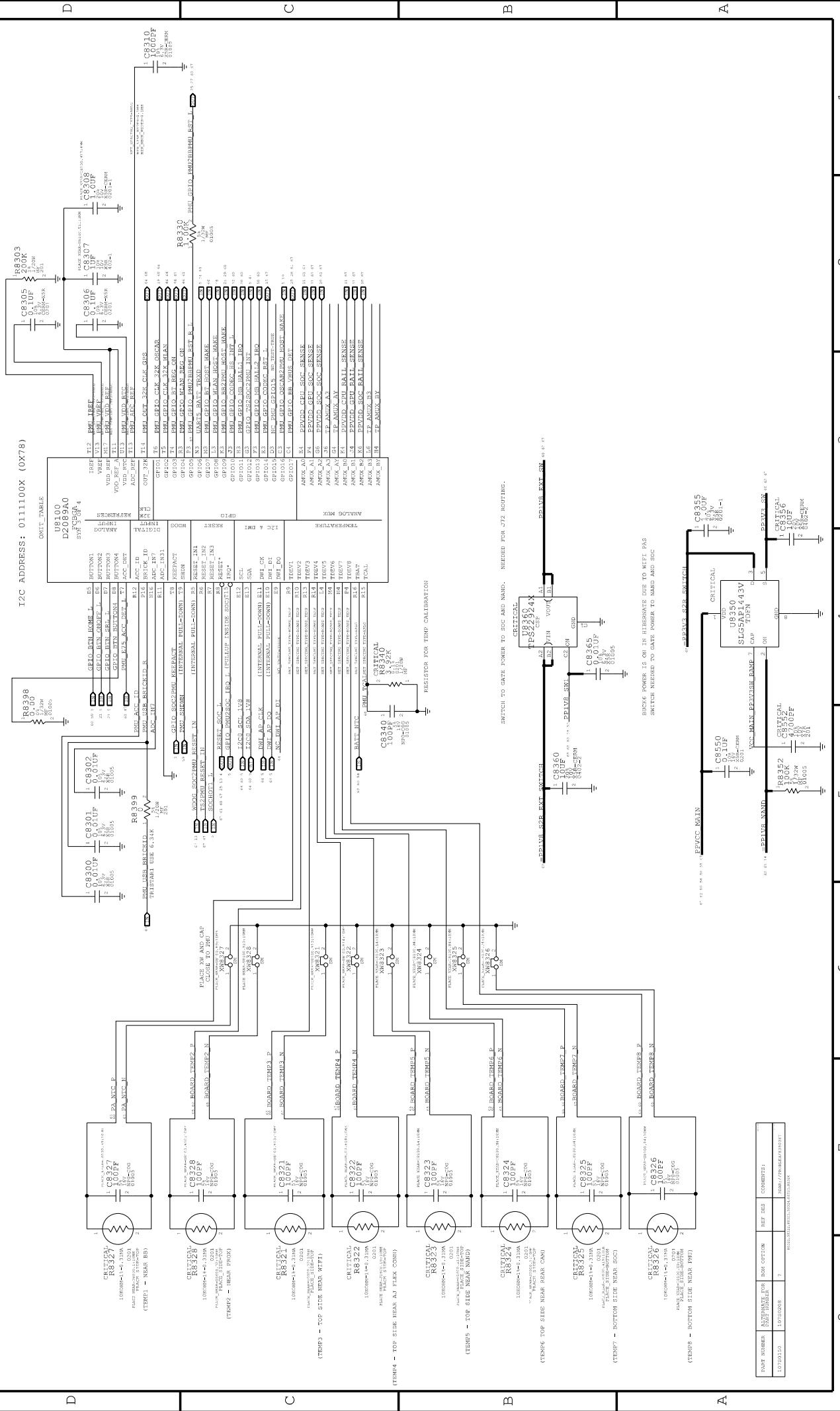
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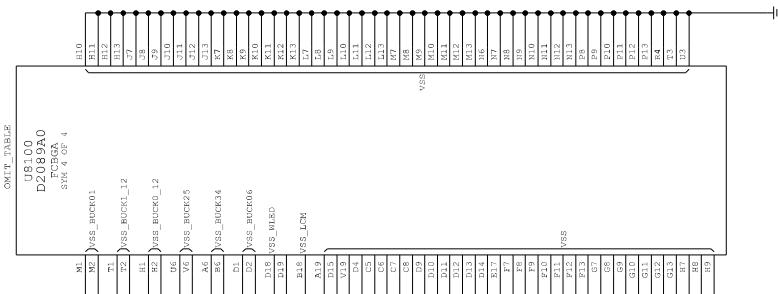
EDP CONNECTOR SUPPORT



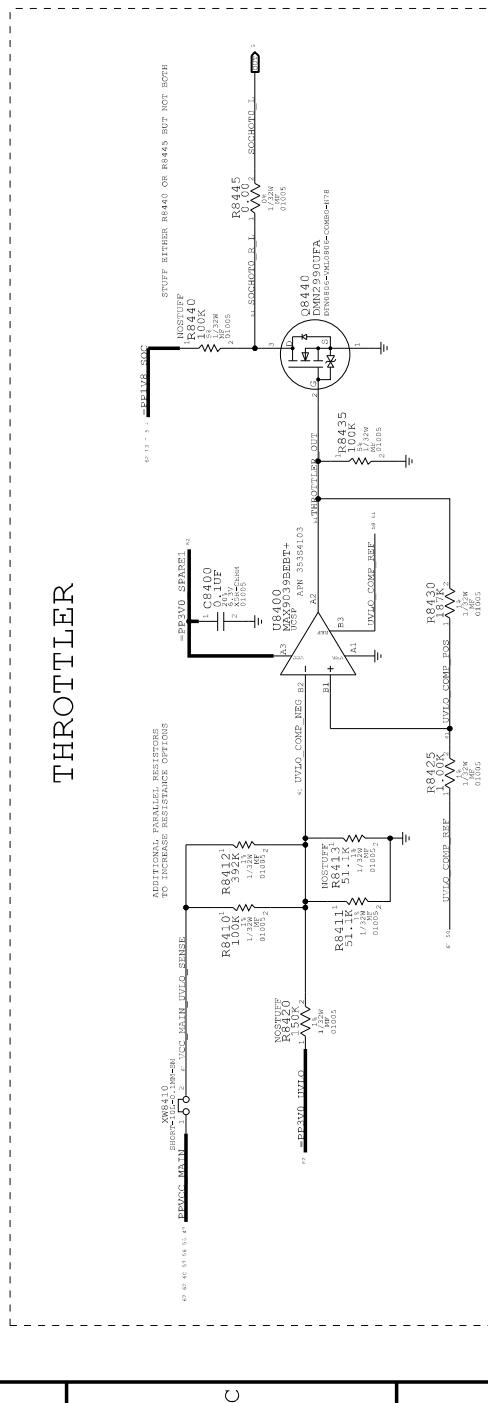




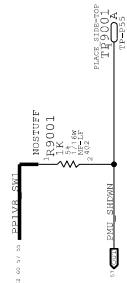
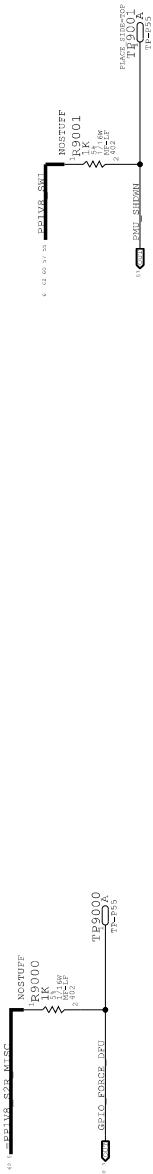




THRÖTTLER



DEBUG RESET ACCESS



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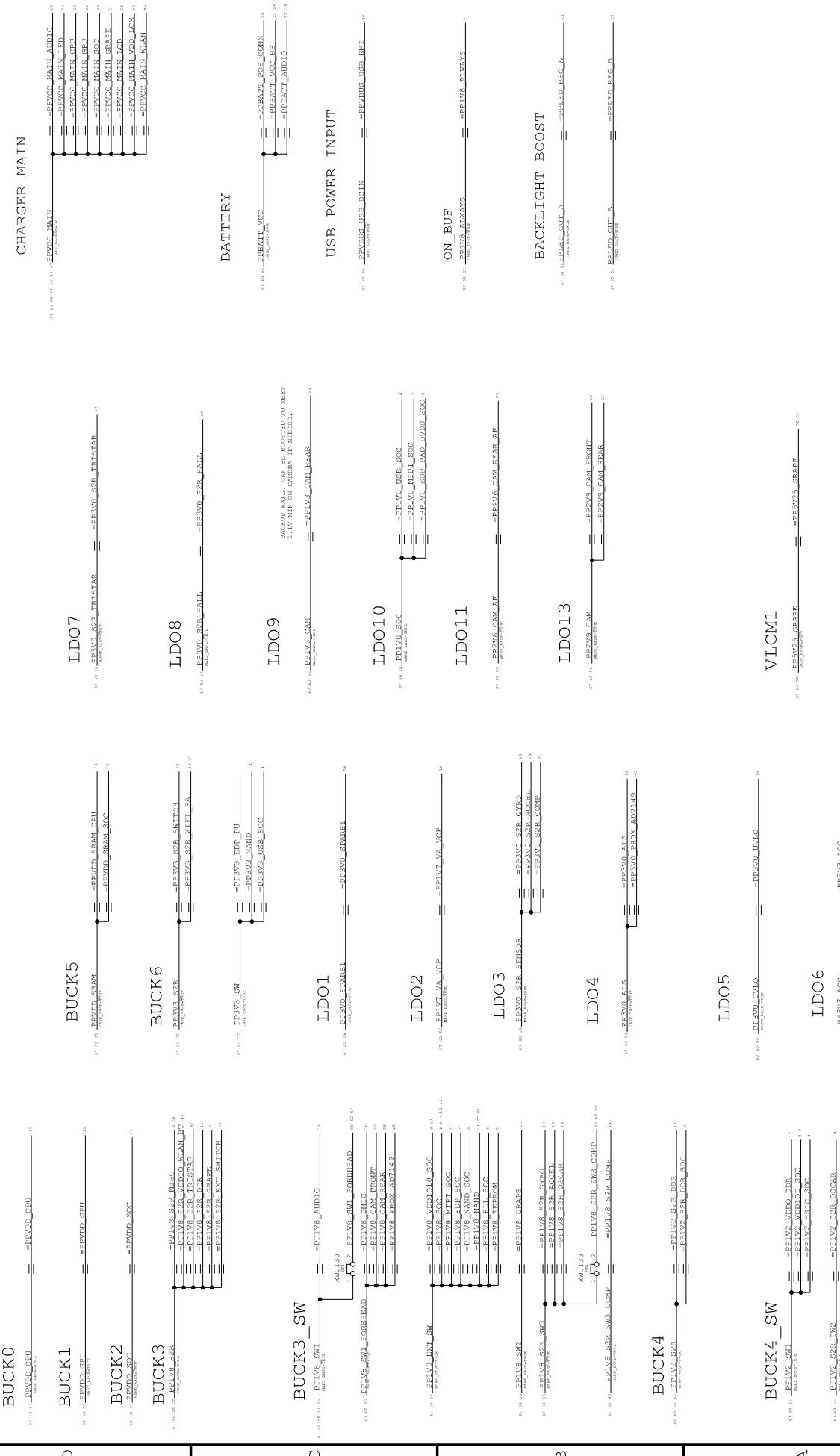
D

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POWER CONNECTIONS



RF

HT_SPACING_TYPE1

HT_SPACING_TYPE2

HT_SPACING_TYPE3

HT_SPACING_TYPE4

HT_SPACING_TYPE5

HT_SPACING_TYPE6

HT_SPACING_TYPE7

HT_SPACING_TYPE8

HT_SPACING_TYPE9

HT_SPACING_TYPE10

HT_SPACING_TYPE11

HT_SPACING_TYPE12

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