

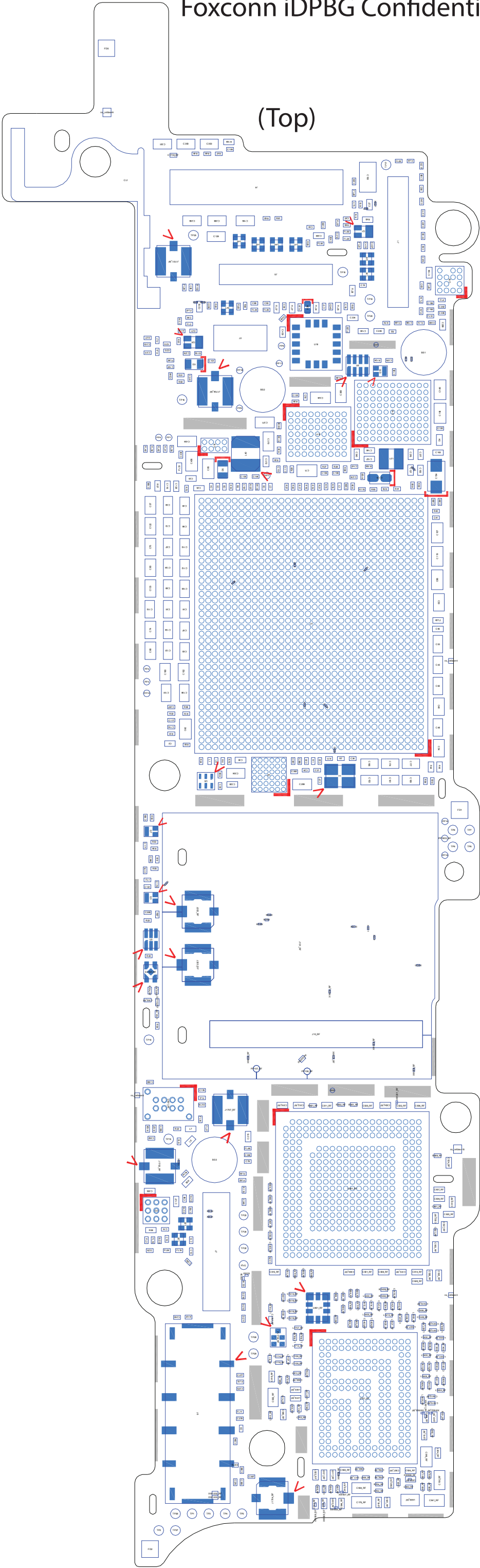
820-3141-B
MLB Placement Drawing

(Bottom)



Foxconn iDPBG Confidential

(Top)



8

7

6

5

4

3

2

1

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.

2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.

3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

N41_SINGLE_BRD_PVT

Tue Jul 10 17:52:36 2012

PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
2	2	H5P JTAG, USB ,PLL	N/A	N/A
3	3	H5P GPIO & CONTROL	N/A	N/A
4	4	H5P IO POWER	N/A	N/A
5	5	H5P SOC/CPU/SRAM PWR	N/A	N/A
6	6	H5P W/ NAND	N/A	N/A
7	7	H5P VIDEO	N/A	N/A
8	8	BUTTON CONNECTOR	N/A	N/A
9	9	CS42L65 AUDIO CODEC (1/2)	N/A	N/A
10	10	CS42L65 AUDIO CODEC (2/2)	N/A	N/A
11	11	CG FLEX CONNECTOR	N/A	N/A
12	12	AGATHA PMU(1/2)	N/A	N/A
13	13	AGATHA PMU(2/2)	N/A	N/A
14	14	ACCEL,GYRO,COMPASS,SPK AMP	N/A	N/A
15	15	TRISTAR	N/A	N/A
16	16	DOCK CONNECTOR	N/A	N/A
17	17	GRAPE & CONNECTOR	N/A	N/A
18	18	LCM CONNECTOR	N/A	N/A
19	19	STROBE & NEGATIVE RAIL	N/A	N/A
20	20	CAM0 CONNECTOR	N/A	N/A
21	21	BATTERY & RF INT.	N/A	N/A
22	22	TEST POINTS	N/A	N/A

SCH 051-9113

BRD 820-3141

MCO 056-5192

BOM 639-3259 (16GB)

BOM 639-3420 (32GB)

BOM 639-3421 (64GB)

BOM 639-2456 (16GB)

BOM 639-3858 (32GB)

BOM 639-3839 (64GB)

BOM 639-4085 (16GB)

BOM 639-4084 (32GB)

BOM 639-4083 (64GB)

BTR N41

BST N41

ULT N41

BTR N42

BST N42

ULT N42

BTR N42

BST N42

ULT N42

N41_BOM_CALLOUTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-9113	1	N41_SINGLE_BRD SCHEMATIC	SCH	Y	?
820-3141	1	N41_SINGLE_BRD PCB	PCB	Y	?
825-6838	1	LABEL FOR N41 639-3259	EEEE_DW3G	Y	EEEE_16G
825-6838	1	LABEL FOR N41 639-3420	EEEE_DY6Q	Y	EEEE_32G
825-6838	1	LABEL FOR N41 639-3421	EEEE_DY6R	Y	EEEE_64G
825-6838	1	LABEL FOR N42 639-2456	EEEE_DNVD	Y	EEEE_16G_N42
825-6838	1	LABEL FOR N41 639-3858	EEEE_F322	Y	EEEE_32G_N42
825-6838	1	LABEL FOR N41 639-3859	EEEE_F321	Y	EEEE_64G_N42
825-6838	1	LABEL FOR N41 639-4085	EEEE_F64R	Y	EEEE_16G_N42_SM
825-6838	1	LABEL FOR N41 639-4084	EEEE_F64Q	Y	EEEE_32G_N42_SM
825-6838	1	LABEL FOR N41 639-4083	EEEE_F64T	Y	EEEE_64G_N42_SM

N41 = BAND 17 COMP
N42 = BAND 13 COMP

NAND_OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
341T0427	1	IC,PROGRAM FLASH,BETTER,N41	U4	?	NAND_16G
341T0428	1	IC,PROGRAM FLASH,BEST,N41	U4	?	NAND_32G
341T0429	1	IC,PROGRAM FLASH,ULT,N41	U4	?	NAND_64G

RADIO_MLB_TDMA_CAP_OPTION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S0801	3	CAP,CER,10UF,20V,10V,X5R,HRETL,0402	C235_RF,C236_RF,C237_RF	Y	?
138S0801	2	CAP,CER,10UF,20V,10V,X5R,HRETL,0402	C1201_RF,C1801_RF	Y	?

INDUCTOR_607-XXXX_SUBBOM_GEN

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1547	4	IND,PWR,1.5UH,1.95A,111MOHM,2520	L10,L50,L14,L54	Y	CPU0_1_TDK_SUBBOM
152S1696	3	IND,PWR,2.2UH,1.45A,138MOHM,2520	L11,L12,L13	Y	SOC_CYNTEC_SUBBOM
152S1695	4	IND,PWR,1.5UH,1.95A,111MOHM,2520	L10,L50,L14,L54	Y	CPU0_1_CYNTEC_SUBBOM
152S1432	3	IND,PWR,2.2UH,1.45A,125MOHM,2520	L11,L12,L13	Y	SOC_TDK_SUBBOM

INDUCTOR_SUBBOM_ADDITION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
607-9979	1	CPU0_1,PWR IND SUBBOM	CPU_IND	Y	?
607-9980	1	SOC,PWR IND SUBBOM	SOC_IND	Y	?

ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0648	138S0652	?	?	4.7UF CERM 0402 6.3V
138S0703	138S0648	?	?	4.7UF CERM 0402 6.3V
138S0702	138S0657	?	?	4.3UF CERM 0610 4V
138S0697	138S0695	?	?	1UF CERM 0204 4V
138S0746	138S0705	?	?	10UF CERM 0402 10V
138S0739	138S0706	?	?	1UF CERM 0201 10V
197S0369	197S0392	?	?	TXC 32KHZ XTAL ALT
197S0399	197S0392	?	?	NDK 32KHZ XTAL ALT
155S0667	155S0583	?	?	PANASONIC CMC
107S0146	107S0208	?	?	TDK 10K NTC ALT
152S1696	152S1432	?	L2	CYNTEC 2.2UH IND ALT
152S1602	152S1604	?	?	CYNTEC 2.2UH IND ALT
311S0591	311S0273	?	?	74LVC1G32 OR GATE ALT
311S0548	311S0398	?	?	74AUP1G08 AND GATE ALT
311S0560	311S0515	?	?	74LV2G07 BUFFER ALT
339S0177	339S0176	?	?	H5P ALT
339S0178	339S0176	?	?	H5P ALT
155S0773	155S0453	?	?	TAIYO ALT FERRITE
127S0162	127S0160	?	?	VISHAY 1.0UF TANT
127S0164	127S0160	?	?	ROHM 1.0UF TANT
376S1120	376S0774	?	?	DIODES INC FET
376S1060	376S0882	?	?	DIODES INC FET

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S0895	335S0874	?	U601_RF	WINBOND ALT
197S0437	197S0410	?	Y301_RF	KYOCERA 19.2MHZ XTAL ALT
197S0409	197S0410	?	Y301_RF	RAJON 19.2MHZ XTAL ALT

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
607-9983	607-9979	?	CPU_IND	ALT CPU CYNTEC SUBBOM
607-9984	607-9980	?	SOC_IND	ALT SOC CYNTEC SUBBOM

SCHEM,MLB,N41

Apple Inc.

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051-9113

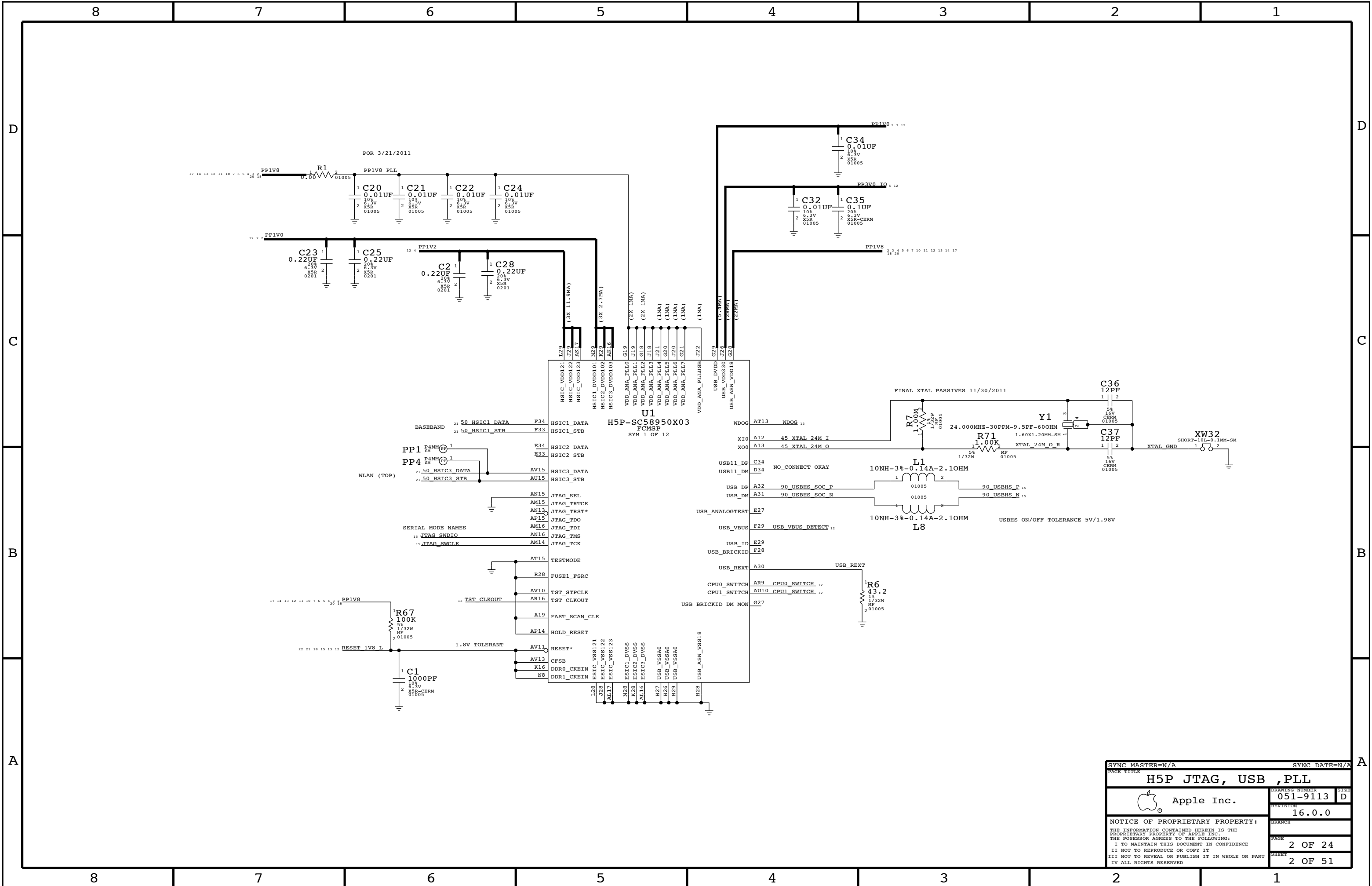
REVISION
16.0.0

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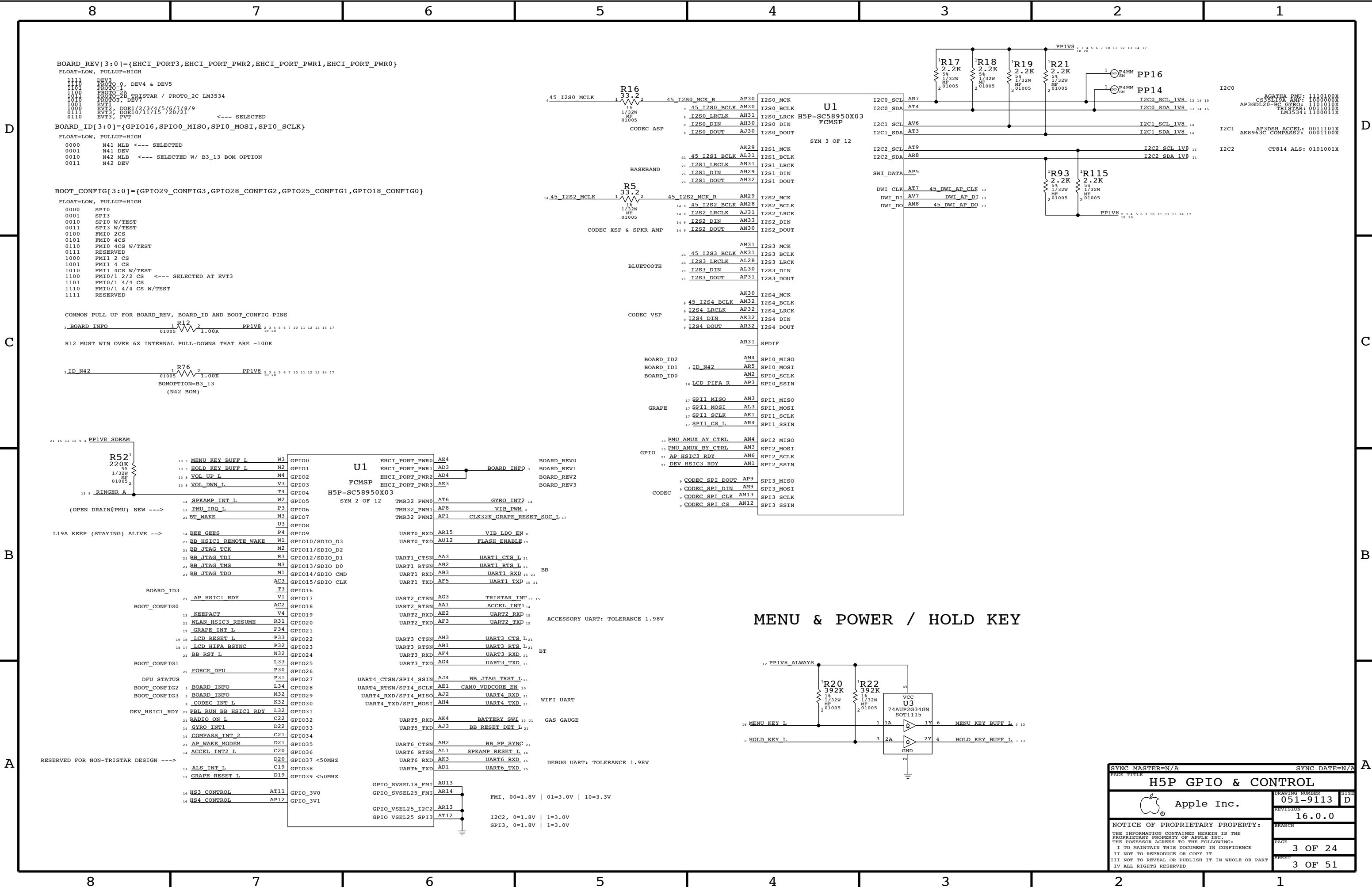
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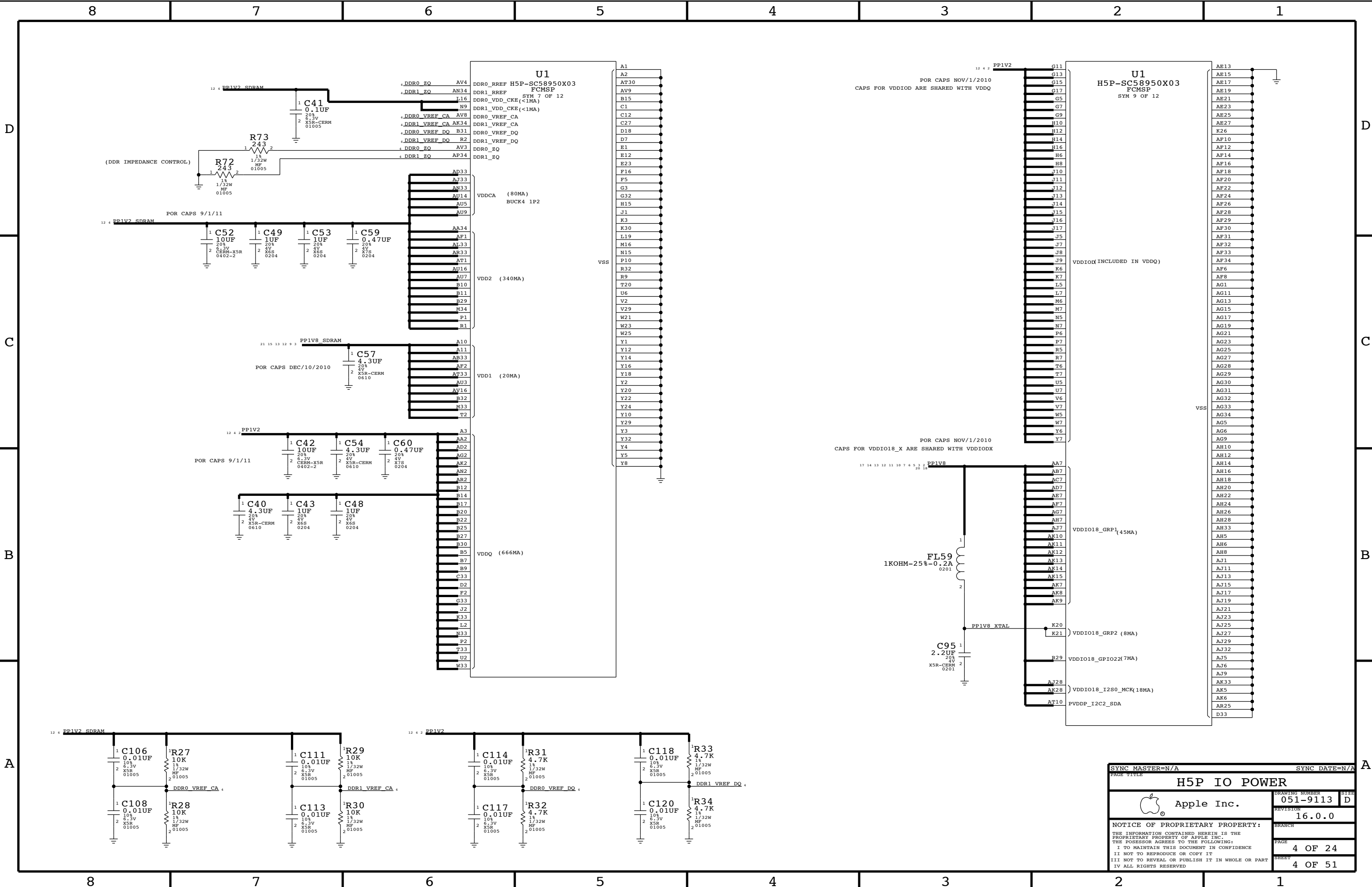
ANY QUESTIONS? EMAIL STAN RABU OR CRAIG BIRRELL

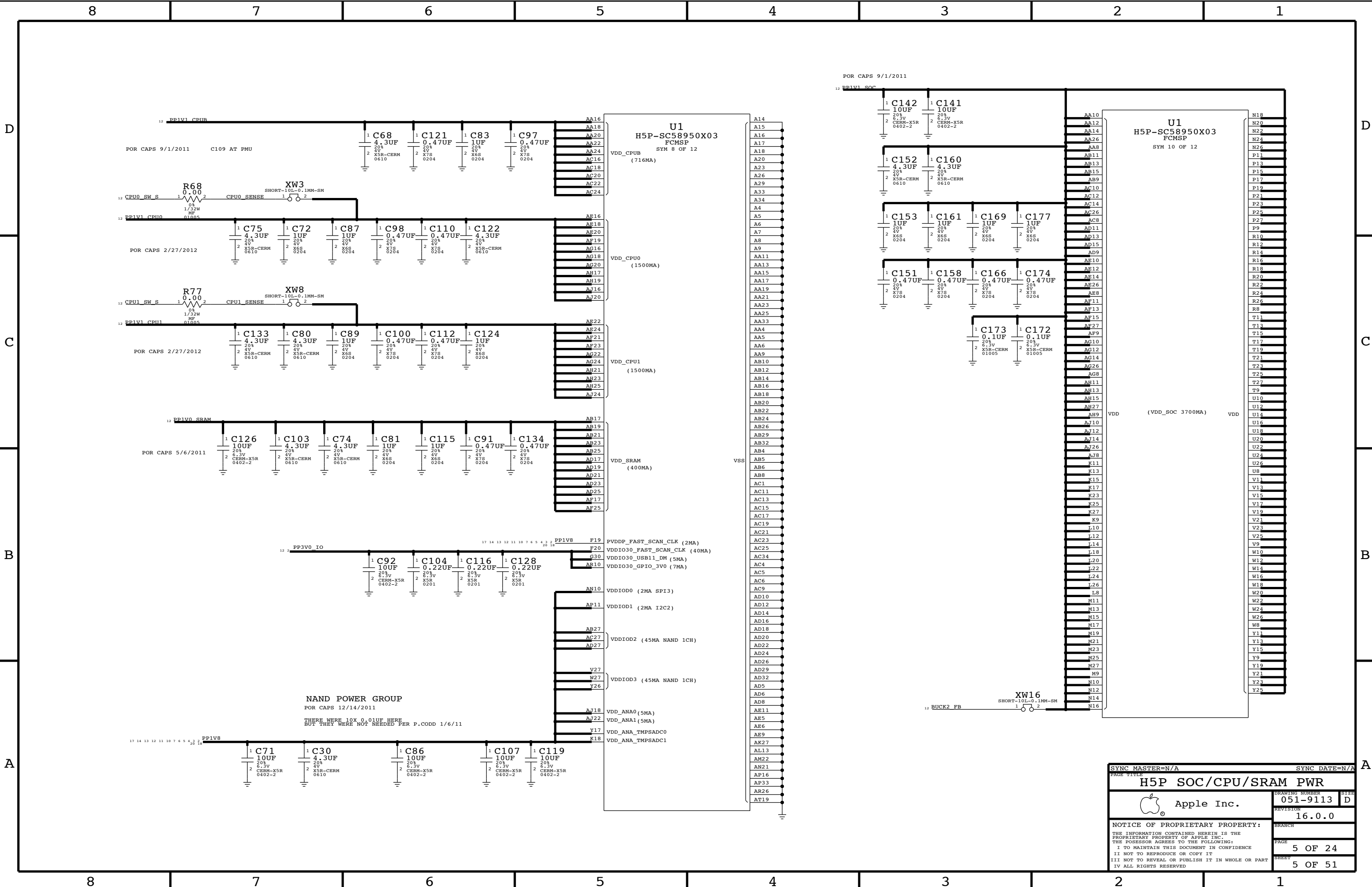


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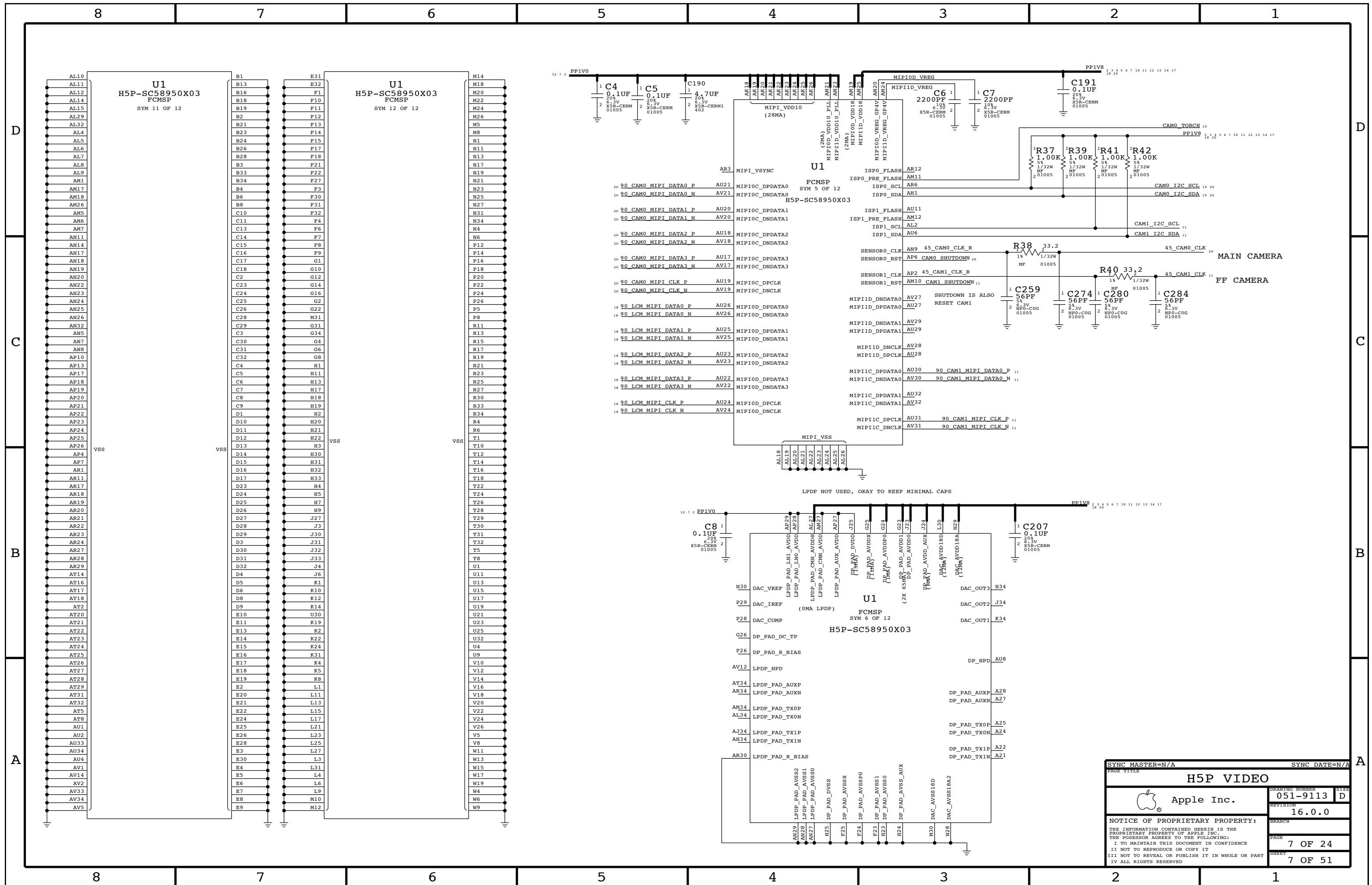


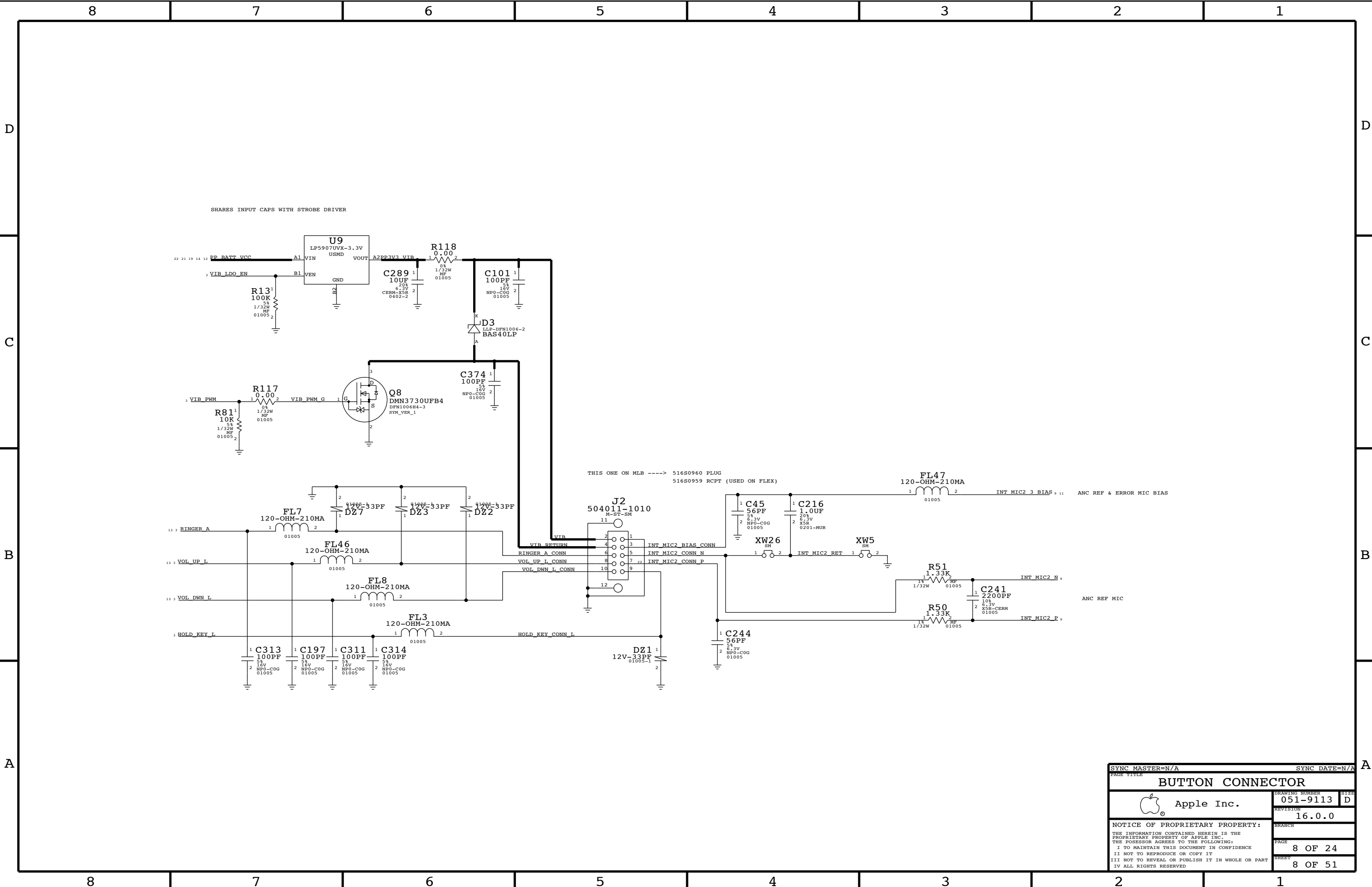
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SUPPORT FOR PPN1.5 AND PPN1.0 W/ 1.8V IO ONLY



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H5P W/ NAND			
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CS42L65 AUDIO CODEC

VOICE MIC

ANC REF MIC

ANC ERROR MIC

U21 CS42L65B1

Pin Functions:

Pin	Function
1	INT_MIC1_BIAS
2	INT_MIC1_CODEC_P
3	INT_MIC1_CODEC_N
4	INT_MIC1_BIAS_FILT
5	INT_MIC2_3_BIAS
6	INT_MIC2_CODEC_P
7	INT_MIC2_CODEC_N
8	INT_MIC2_BIAS_FILT
9	INT_MIC3_CODEC_P
10	INT_MIC3_CODEC_N
11	INT_MIC3_BIAS_FILT
12	MIC3A_BIAS
13	MIC3A+
14	MIC3A-
15	MIC3A_BIAS_FILT
16	MIC3B+
17	MIC3B-
18	MIC3B_BIAS
19	MIC3B_BIAS_FILT
20	MIC4A_BIAS
21	MIC4A+
22	MIC4A-
23	MIC4A_BIAS_FILT
24	MIC4B_BIAS
25	MIC4B+
26	MIC4B-
27	MIC4B_BIAS_FILT
28	DMIC1_SD
29	DMIC1_SCLK
30	DMIC2_SD
31	DMIC2_SCLK
32	DMIC3_SD
33	DMIC3_SCLK
34	DMIC4_SD
35	DMIC4_SCLK
36	LINEOUT1A
37	LINEOUT1B
38	LINEOUT1A_REF
39	AOUT1A+
40	AOUT1A-
41	AOUT1B+
42	AOUT1B-
43	AOUT2+
44	AOUT2-
45	TSTO
46	CODEC_SPI_CS
47	CODEC_SPI_CLK
48	CODEC_SPI_DIN
49	CODEC_SPI_DOUT
50	CODEC_INT_L
51	MIKEY_INT_L
52	CODEC_RESET_L
53	TSTI

Table:

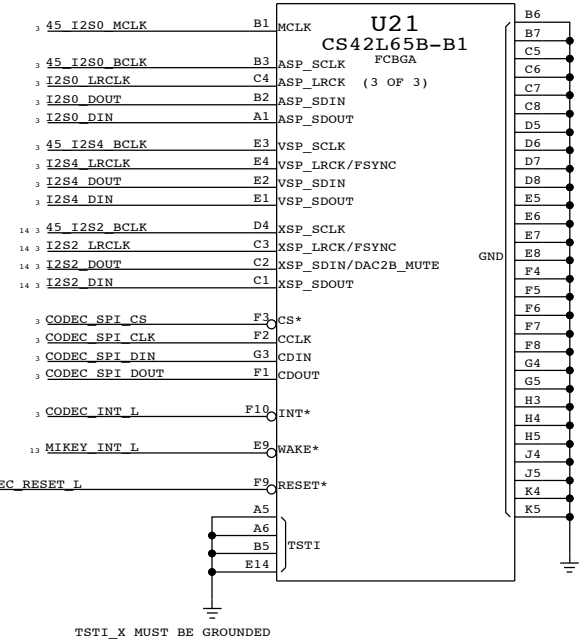
Pin	Function
1	INT_MIC1_BIAS
2	INT_MIC1_CODEC_P
3	INT_MIC1_CODEC_N
4	INT_MIC1_BIAS_FILT
5	INT_MIC2_3_BIAS
6	INT_MIC2_CODEC_P
7	INT_MIC2_CODEC_N
8	INT_MIC2_BIAS_FILT
9	INT_MIC3_CODEC_P
10	INT_MIC3_CODEC_N
11	INT_MIC3_BIAS_FILT
12	MIC3A_BIAS
13	MIC3A+
14	MIC3A-
15	MIC3A_BIAS_FILT
16	MIC3B+
17	MIC3B-
18	MIC3B_BIAS
19	MIC3B_BIAS_FILT
20	MIC4A_BIAS
21	MIC4A+
22	MIC4A-
23	MIC4A_BIAS_FILT
24	MIC4B_BIAS
25	MIC4B+
26	MIC4B-
27	MIC4B_BIAS_FILT
28	DMIC1_SD
29	DMIC1_SCLK
30	DMIC2_SD
31	DMIC2_SCLK
32	DMIC3_SD
33	DMIC3_SCLK
34	DMIC4_SD
35	DMIC4_SCLK
36	LINEOUT1A
37	LINEOUT1B
38	LINEOUT1A_REF
39	AOUT1A+
40	AOUT1A-
41	AOUT1B+
42	AOUT1B-
43	AOUT2+
44	AOUT2-
45	TSTO
46	CODEC_SPI_CS
47	CODEC_SPI_CLK
48	CODEC_SPI_DIN
49	CODEC_SPI_DOUT
50	CODEC_INT_L
51	MIKEY_INT_L
52	CODEC_RESET_L
53	TSTI

Table:

Pin	Function
1	INT_MIC1_BIAS
2	INT_MIC1_CODEC_P
3	INT_MIC1_CODEC_N
4	INT_MIC1_BIAS_FILT
5	INT_MIC2_3_BIAS
6	INT_MIC2_CODEC_P
7	INT_MIC2_CODEC_N
8	INT_MIC2_BIAS_FILT
9	INT_MIC3_CODEC_P
10	INT_MIC3_CODEC_N
11	INT_MIC3_BIAS_FILT
12	MIC3A_BIAS
13	MIC3A+
14	MIC3A-
15	MIC3A_BIAS_FILT
16	MIC3B+
17	MIC3B-
18	MIC3B_BIAS
19	MIC3B_BIAS_FILT
20	MIC4A_BIAS
21	MIC4A+
22	MIC4A-
23	MIC4A_BIAS_FILT
24	MIC4B_BIAS
25	MIC4B+
26	MIC4B-
27	MIC4B_BIAS_FILT
28	DMIC1_SD
29	DMIC1_SCLK
30	DMIC2_SD
31	DMIC2_SCLK
32	DMIC3_SD
33	DMIC3_SCLK
34	DMIC4_SD
35	DMIC4_SCLK
36	LINEOUT1A
37	LINEOUT1B
38	LINEOUT1A_REF
39	AOUT1A+
40	AOUT1A-
41	AOUT1B+
42	AOUT1B-
43	AOUT2+
44	AOUT2-
45	TSTO
46	CODEC_SPI_CS
47	CODEC_SPI_CLK
48	CODEC_SPI_DIN
49	CODEC_SPI_DOUT
50	CODEC_INT_L
51	MIKEY_INT_L
52	CODEC_RESET_L
53	TSTI

Table:

Pin	Function
1	INT_MIC1_BIAS
2	INT_MIC1_CODEC_P
3	INT_MIC1_CODEC_N
4	INT_MIC1_BIAS_FILT
5	INT_MIC2_3_BIAS
6	INT_MIC2_CODEC_P
7	INT_MIC2_CODEC_N
8	INT_MIC2_BIAS_FILT
9	INT_MIC3_CODEC_P
10	INT_MIC3_CODEC_N
11	INT_MIC3_BIAS_FILT



SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE 0115		PAGE 0115	
CS42L65 AUDIO CODEC (1/2)			
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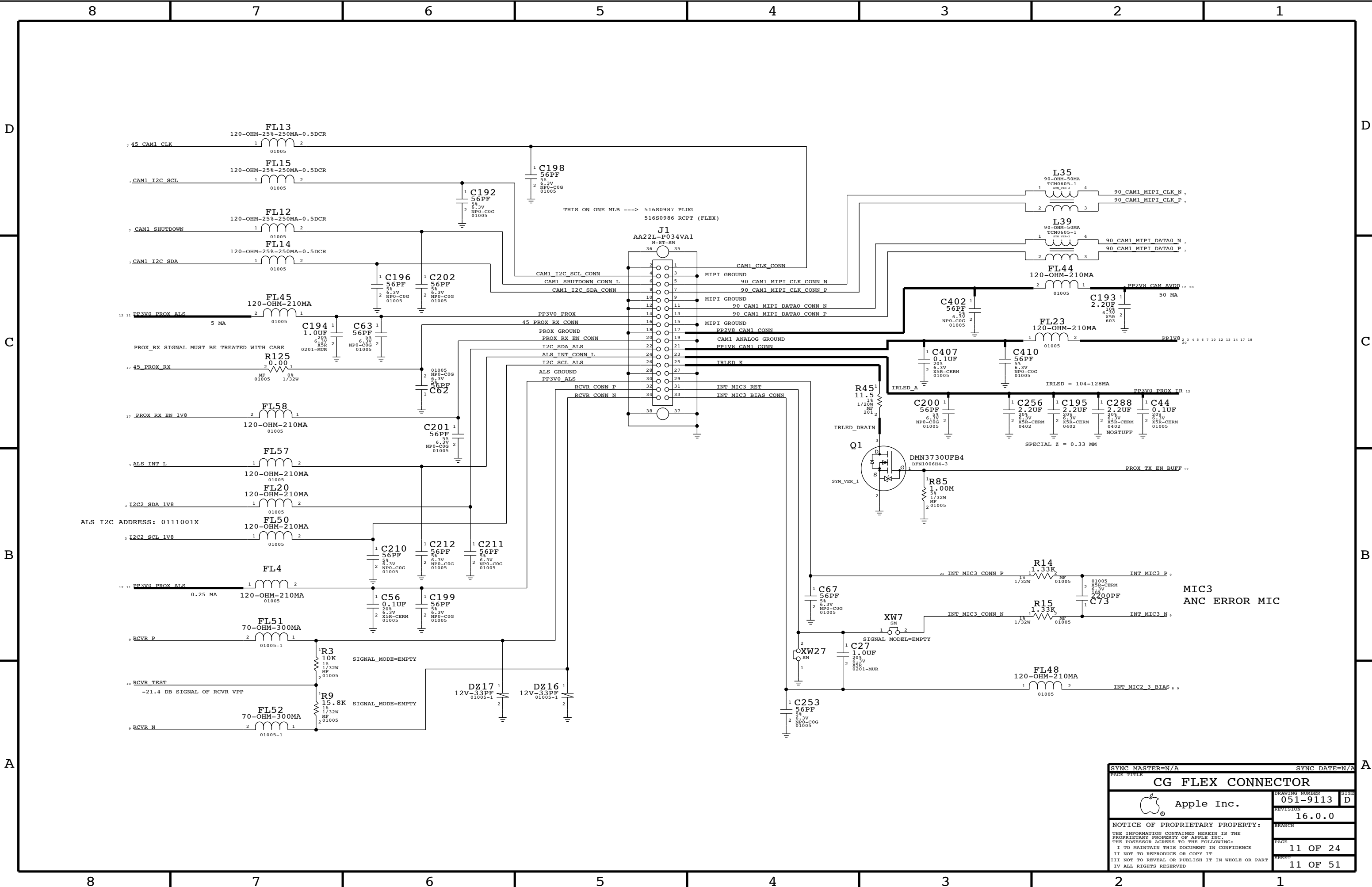
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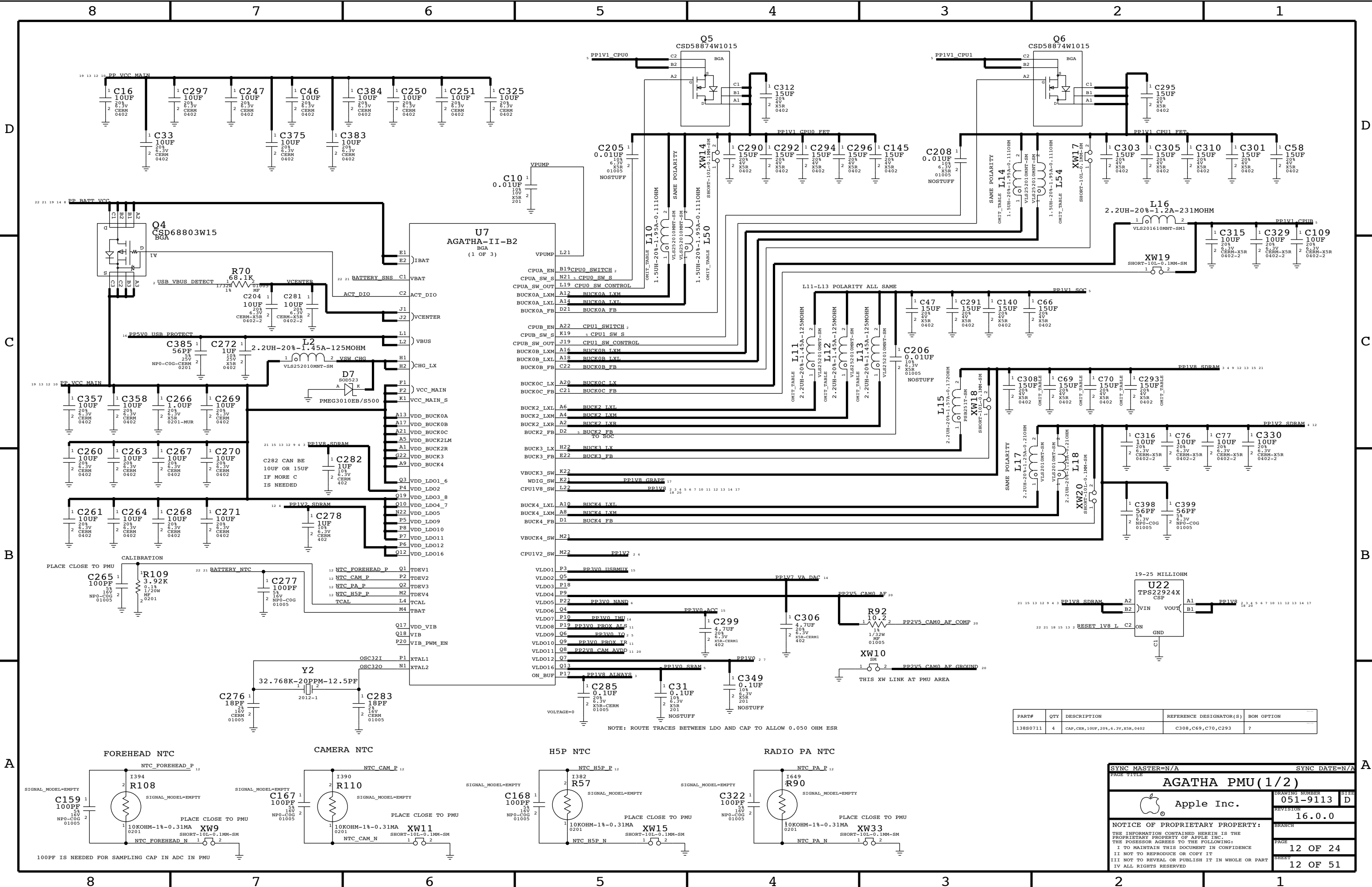
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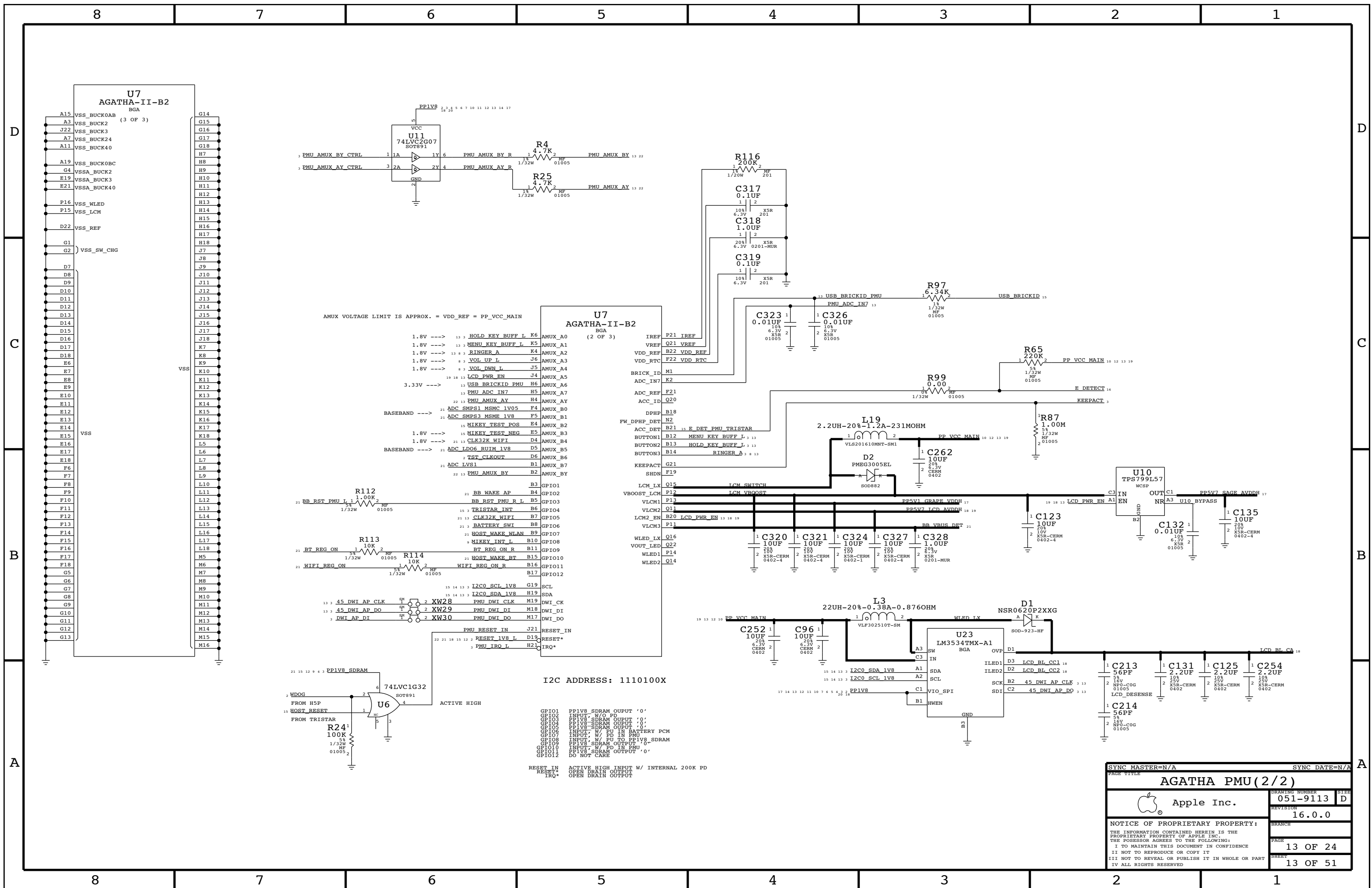


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CG FLEX CONNECTOR		051-9113		D	
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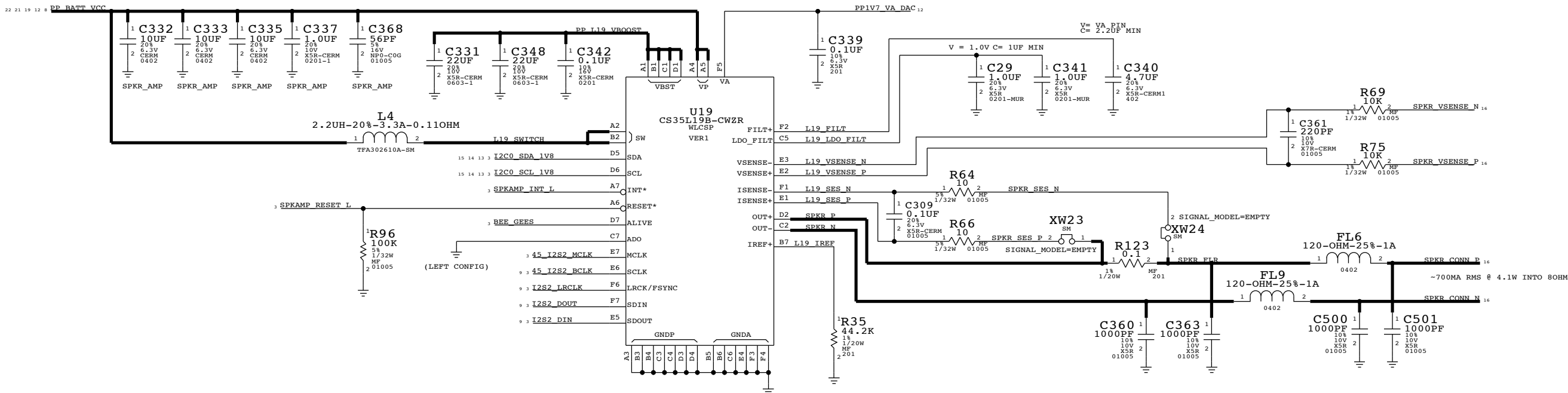
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
138S0711	4	CAP,CER,100UF,20%,6.3V,X5R,0402	C308,C69,C70,C293	?

PAGE TITLE		SYNC MASTER=N/A		SYNC DATE=N/A	
AGATHA PMU (1/2)		DRAWING NUMBER		SIZE	
Apple Inc.		051-9113		D	
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SPEAKER AMP

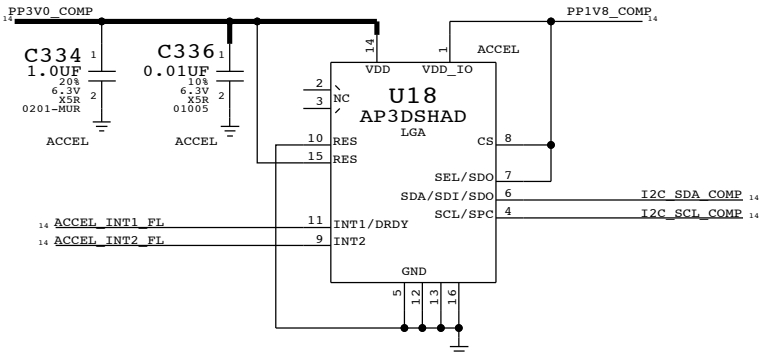
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THESE PARTS OUTSIDE OF SHIELD

ACCELEROMETER

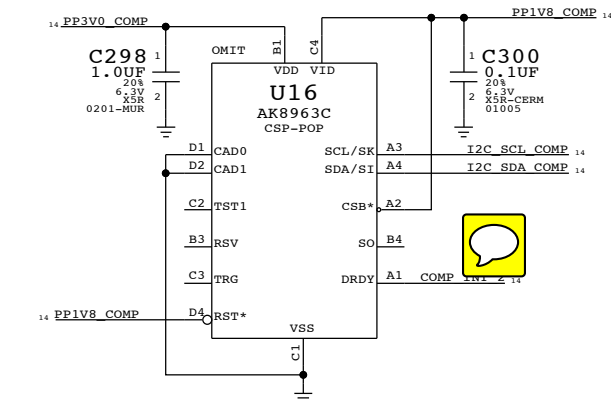
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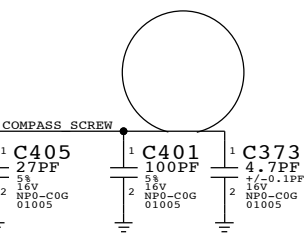
COMPASS2

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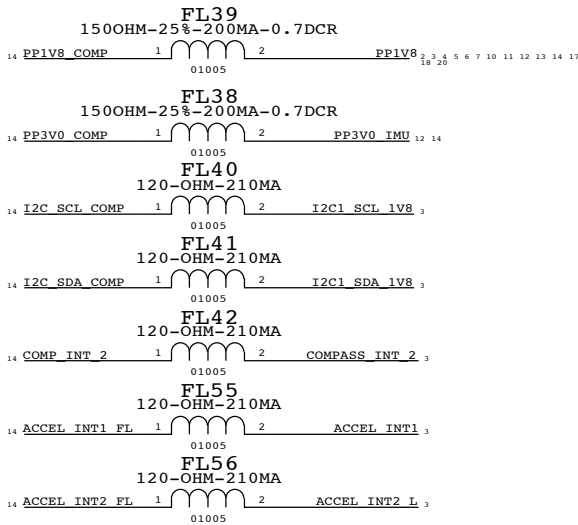
COMPASS POP FOOTPRINT: 998-5120
COMPASS DEVICE: 338S1014



COMPASS SCREW IS RF GROUND

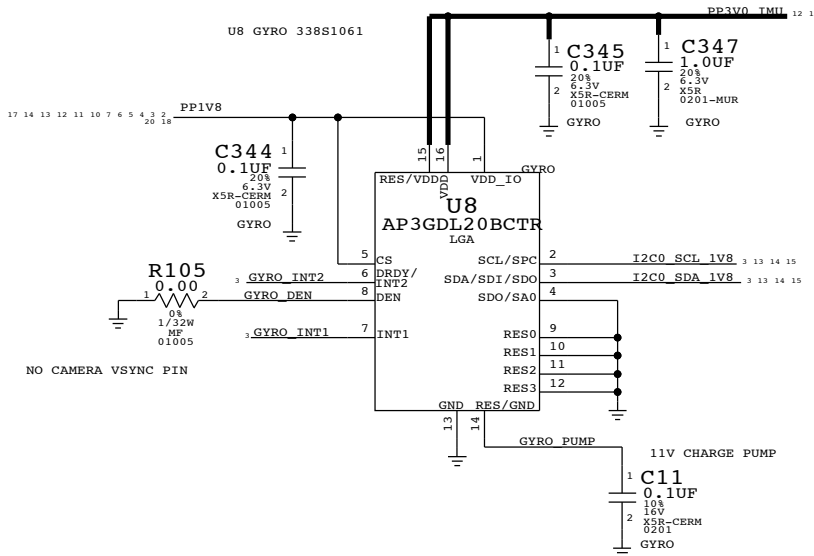


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
639-4024	1	PCB,COMPASS POP,N41	U16	?

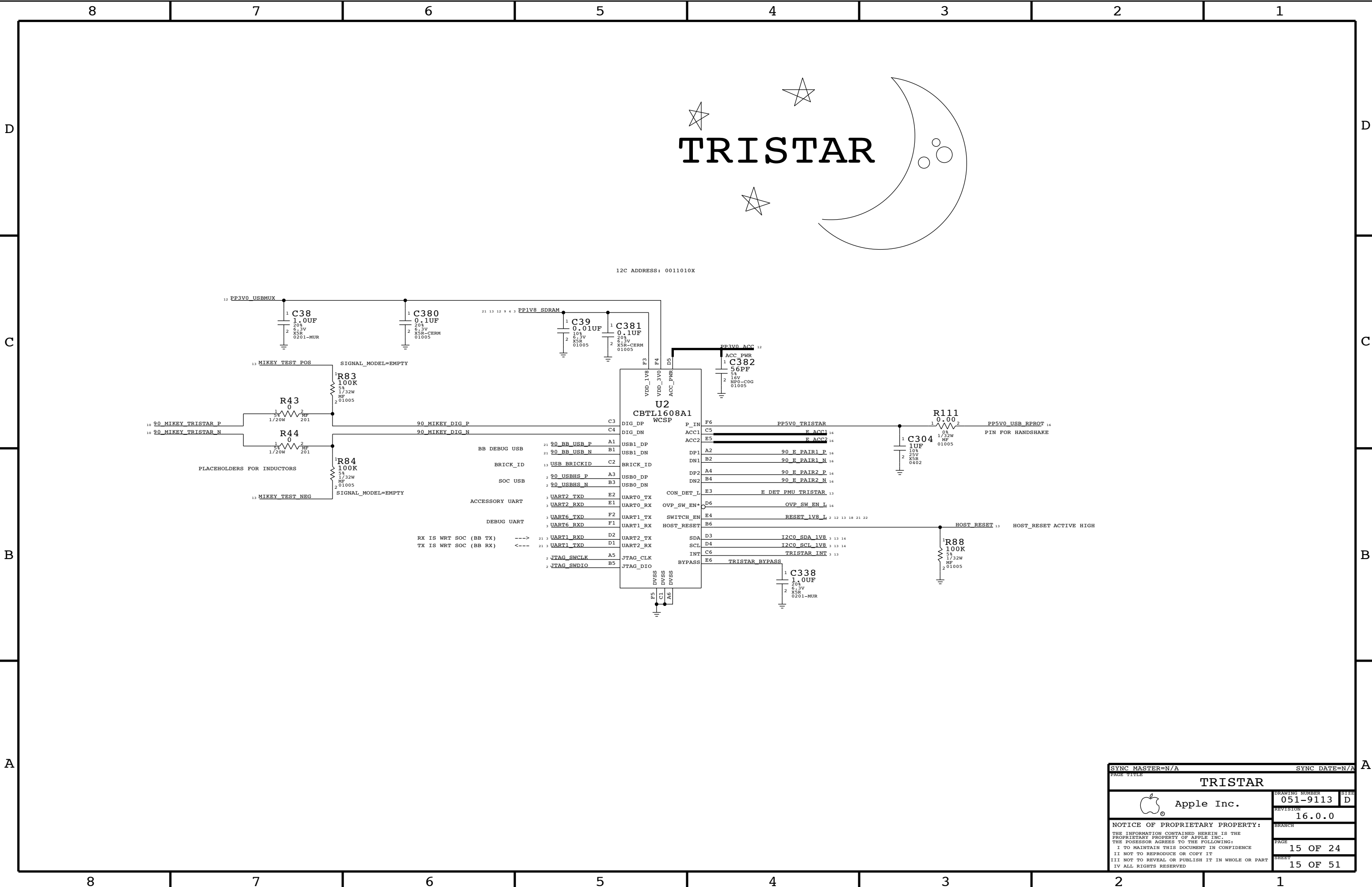


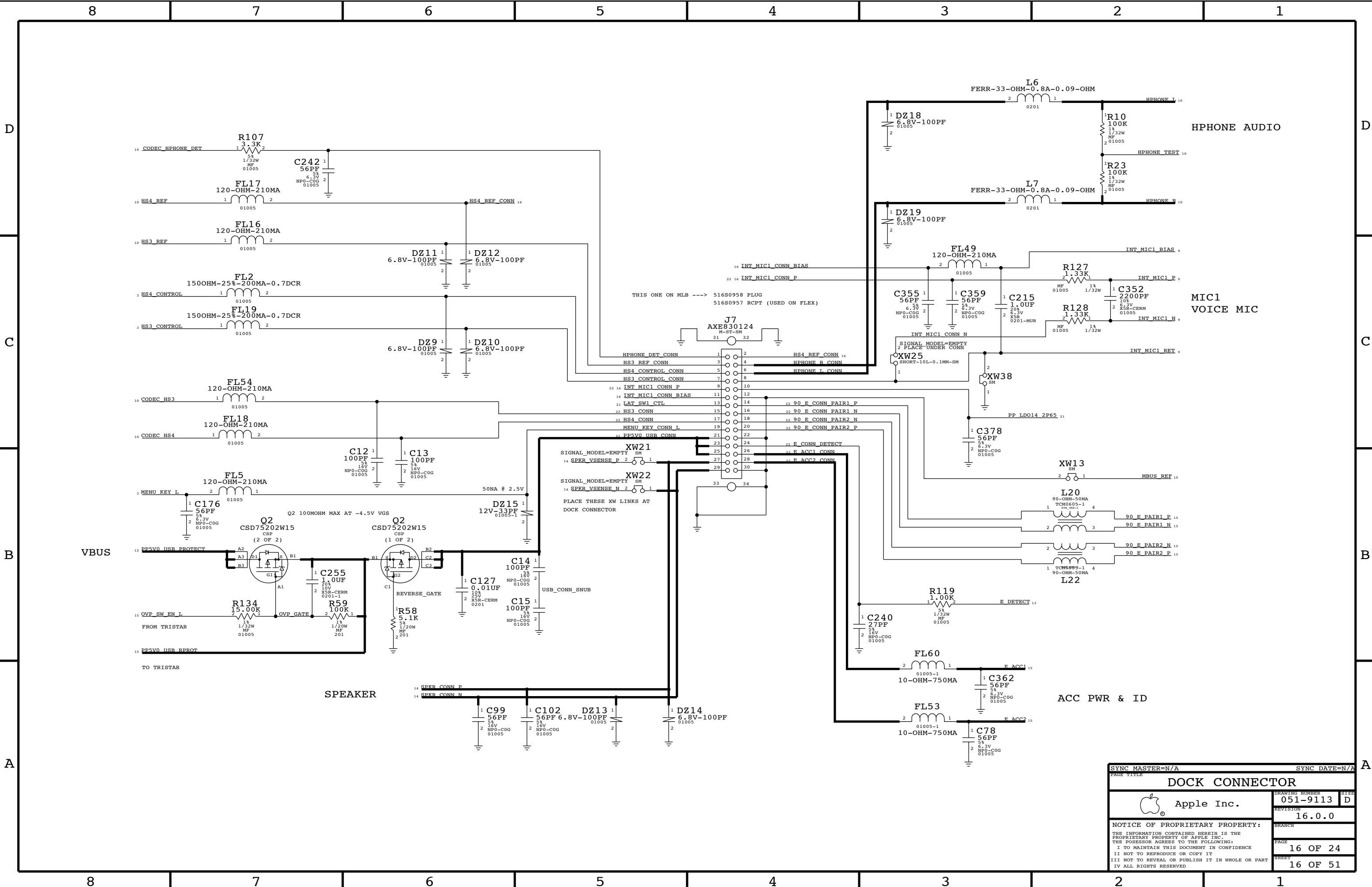
GYRO 20KHZ

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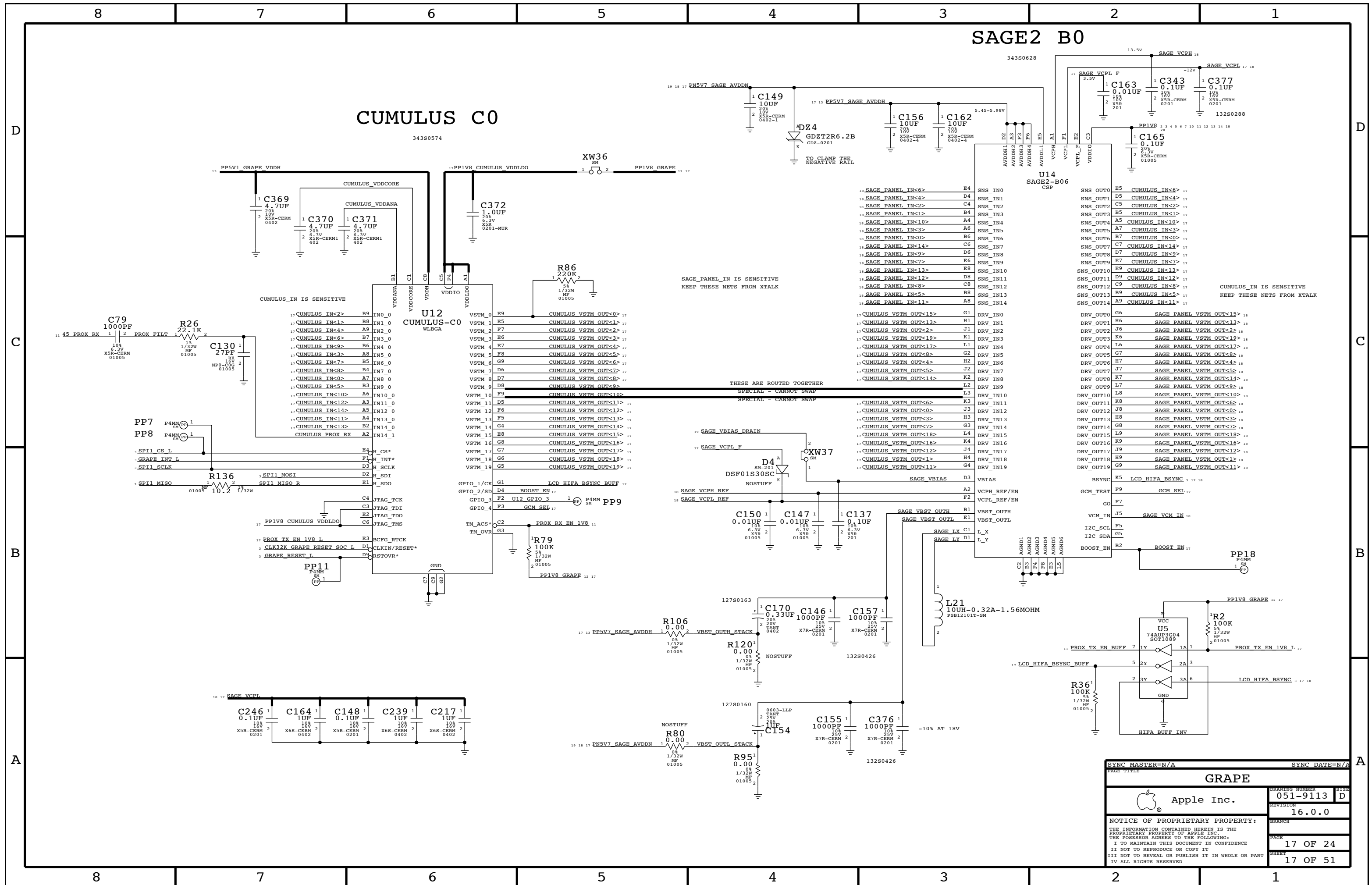


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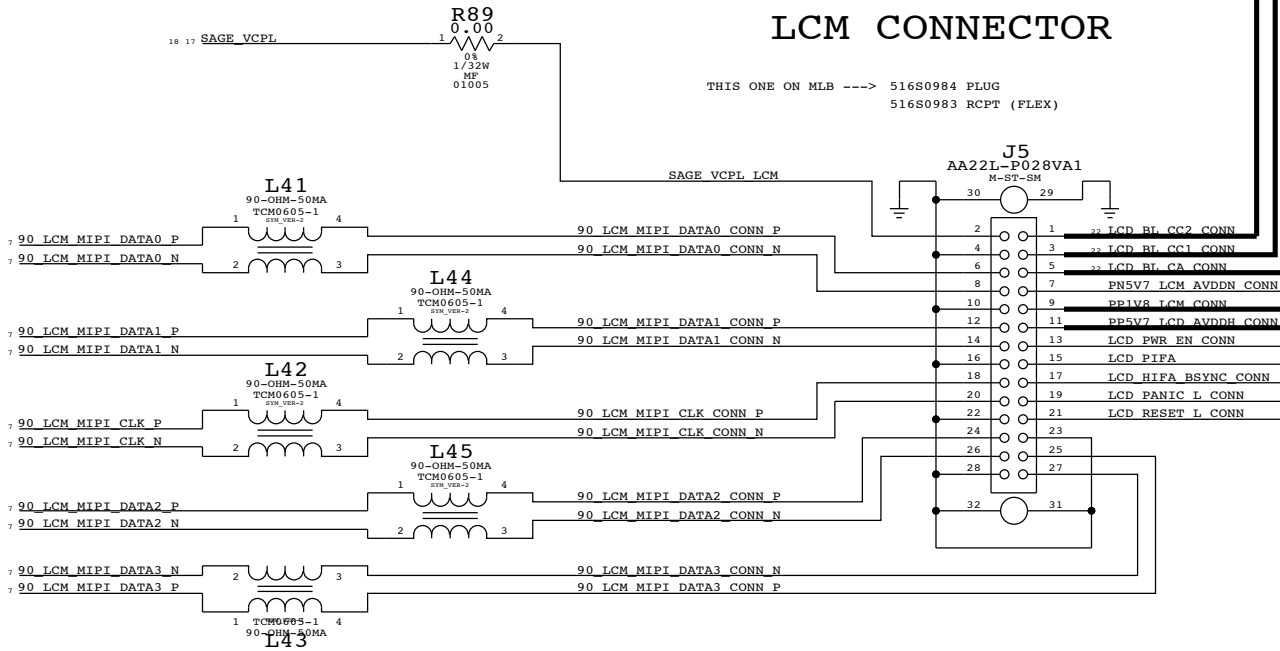
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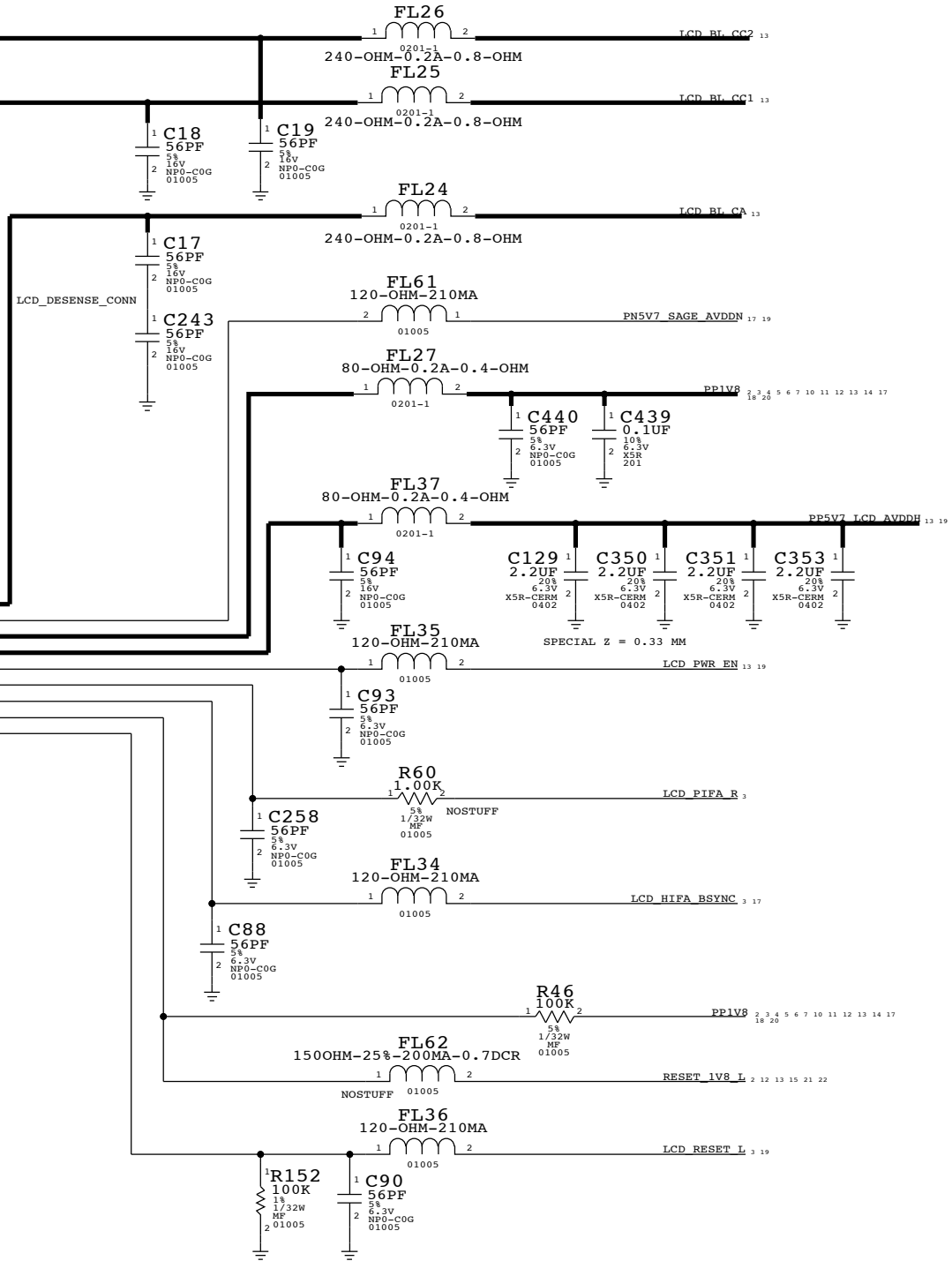
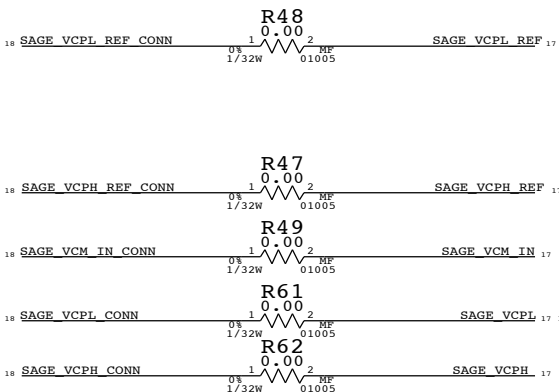
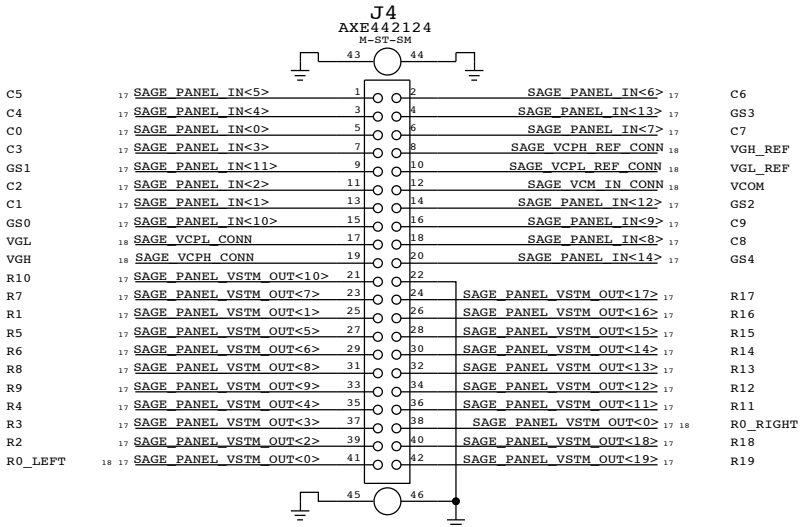
LCM CONNECTOR

THIS ONE ON MLB ----> 516S0984 PLUG
516S0983 RCPT (FLEX)



GRAPE CONNECTOR

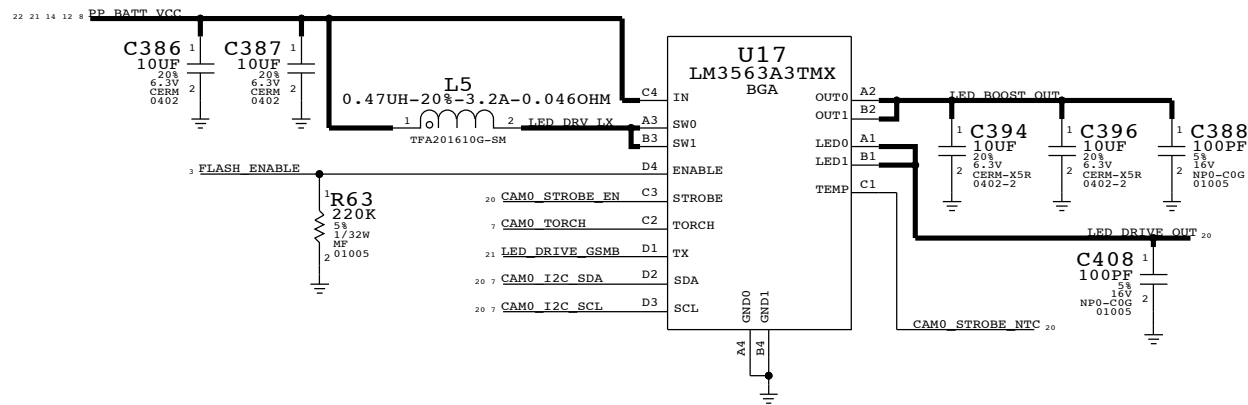
THIS ONE ON MLB ----> 516S0965 PLUG
516S0966 RCPT (USED ON FLEX)



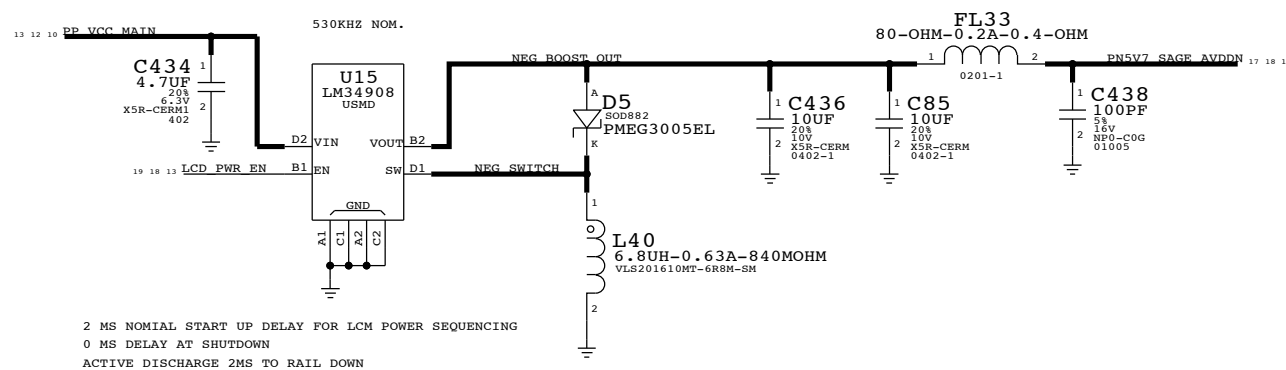
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LED DRIVER

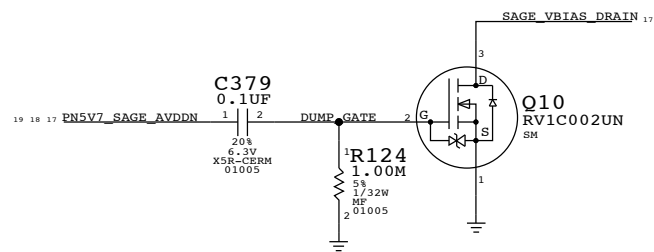
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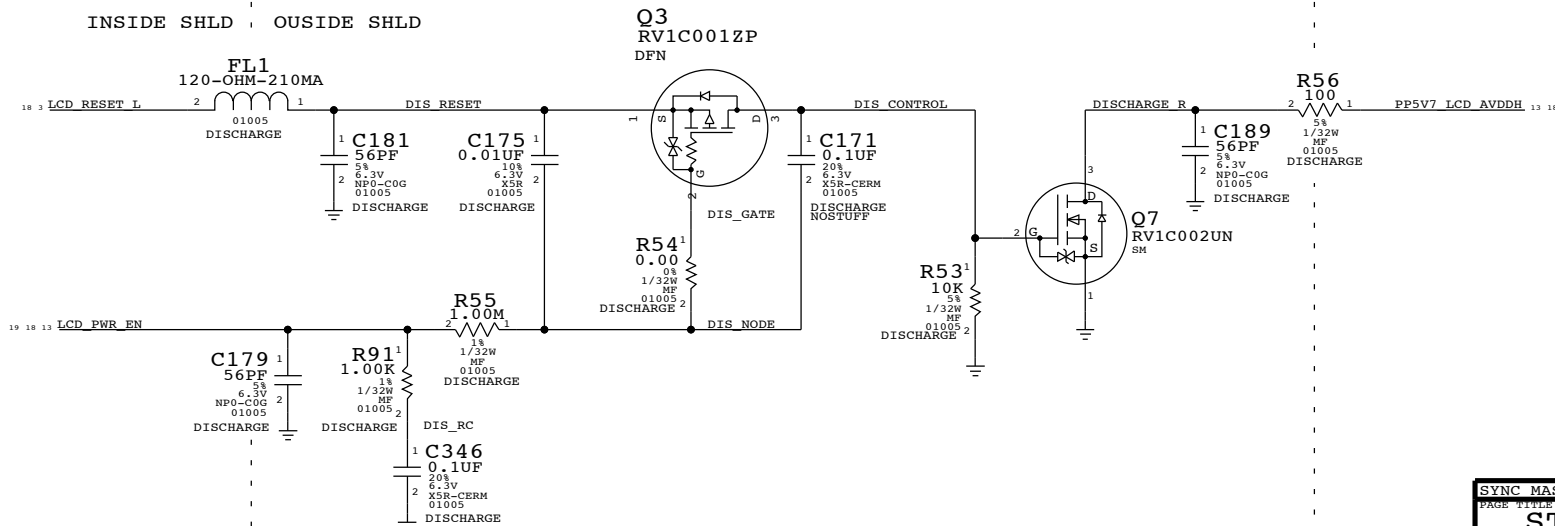
NEGATIVE BOOST SUPPLY



SAGE_VBIAS DISCHARGE



THIS CIRCUIT IS BEHIND THE SIM TRAY



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THIS ONE ON MLB ---> 516S0940 PLUG
516S0939 RCPT (USED ON FLEX)

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SHLD-N41-EMI-UPPER-FRONT-NOHOLES

SH1
SM 806-3729

SHLD-N41-EMI-LOWER-FRONT-NOHOLES

SH2
SM 806-3728

SHLD-N41-EMI-BACK-PIECE-WELDED

SH3
SM 806-4520

806-3272

CLIP-HOOK-UPPPER-COWLING-N41

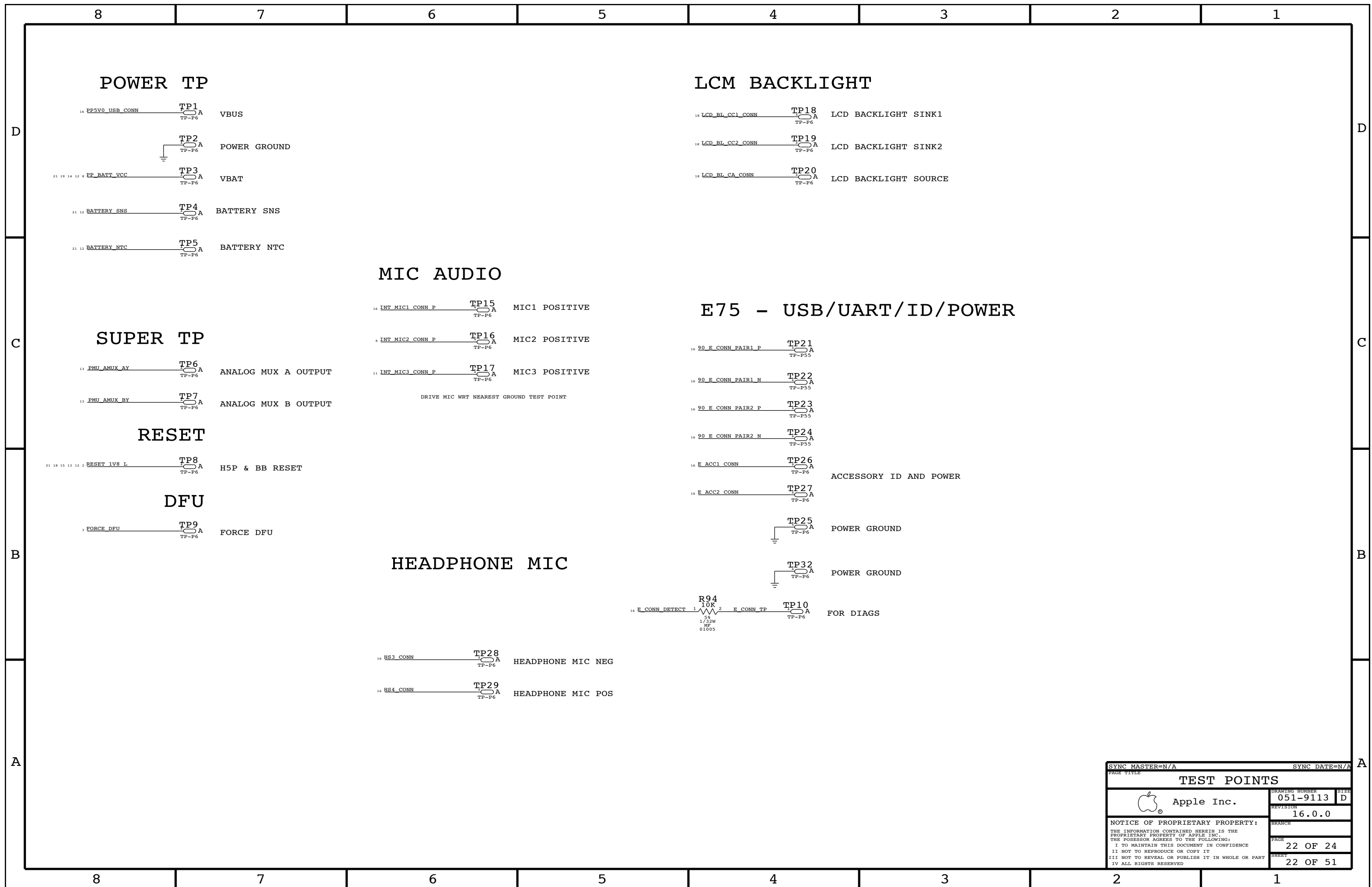
CL1
IM

1 2 3

Ground symbol

		SUBDESIGN_SUFFIX=RF		I594	
26 22 21 19 14 12 8	IN	PP_BATT_VCC	MAKE_BASE=TRUE	PP_BATT_VCC_CONN	AP_HSIC3_RDY
26 3	IN	RADIO_ON_L	MAKE_BASE=TRUE	RADIO_ON_L	DEV_HSIC3_RDY
26 3	OUT	BB_RESET_DET_L	MAKE_BASE=TRUE	RESET_DET_L	BB_JTAG_TCK
26 3	IN	BB_RST_PMU_L	MAKE_BASE=TRUE	RESET_PMU_L	BB_JTAG_TDI
26 3	IN	BB_RST_L	MAKE_BASE=TRUE	BB_RST_L	BB_JTAG_TMS
26 3	OUT	BB_WAKE_AP	MAKE_BASE=TRUE	HOST_WAKE_BB	BB_JTAG_TRST_L
26 22 18 15 13 12	OUT	RESET_IV8_L	MAKE_BASE=TRUE	RF_RESET_L	BB_JTAG_TDO
		USED TO HOLD AP IN RESET DEBUG ONLY			
26 3	OUT	PBL_RUN_BB_HSIC1_RDY	MAKE_BASE=TRUE	PBL_RUN_BB_HSIC1_RDY	
30 3	OUT	BB_HSIC1_REMOTE_WAKE	MAKE_BASE=TRUE	BB_HSIC1_REMOTE_WAKE	
30 19	OUT	LED_DRIVE_GSM_B	MAKE_BASE=TRUE	TX_GTR_THRESH	
26 13	IN	BB_VBUS_DET	MAKE_BASE=TRUE	BB_USB_VBUS	
26 15	IN	90_BB_USB_N	MAKE_BASE=TRUE	90_BB_USB_D_N	
26 15	IN	90_BB_USB_P	MAKE_BASE=TRUE	90_BB_USB_D_P	
30 3	IN	UART1_RTS_L	MAKE_BASE=TRUE	BB_UART_CTS_L	RADIO_MLB
30 3	OUT	UART1_CTS_L	MAKE_BASE=TRUE	BB_UART_RTS_L	
30 15 3	IN	UART1_TXD	MAKE_BASE=TRUE	BB_UART_RXD	
30 15 3	OUT	UART1_RXD	MAKE_BASE=TRUE	BB_UART_TXD	
30 3	OUT	BB_PP_SYNC	MAKE_BASE=TRUE	PP_SYNC	
30 3	IN	45_I2S1_BCLK	MAKE_BASE=TRUE	BB_I2S_CLK	
30 3	IN	I2S1_DOUT	MAKE_BASE=TRUE	BB_I2S_RXD	
30 3	OUT	I2S1_DIN	MAKE_BASE=TRUE	BB_I2S_TXD	
30 3	IN	I2S1_LRCLK	MAKE_BASE=TRUE	BB_I2S_WS	
26 13	OUT	ADC_SMPS1_MSMC_IV05	MAKE_BASE=TRUE	ADC_SMPS1_MSMC_IV05	
26 13	OUT	ADC_SMPS3_MSME_IV8	MAKE_BASE=TRUE	ADC_SMPS3_MSME_IV8	
26 13	IN	ADC_LDO6_RUIM_IV8	MAKE_BASE=TRUE	ADC_LDO6_RUIM_IV8	
26 13	OUT	ADC_LVS1	MAKE_BASE=TRUE	ADC_LVS1	
42 15 13 12 9 4 3	IN	PP1V8_SDRAM	MAKE_BASE=TRUE	PP_WL_BT_VDDIO_AP	
42 13	IN	WIFI_REG_ON	MAKE_BASE=TRUE	WLAN_REG_ON	
42 13	IN	BT_REG_ON	MAKE_BASE=TRUE	BT_REG_ON	
42 3	IN	UART4_TXD	MAKE_BASE=TRUE	WLAN_UART_RXD	
42 3	OUT	UART4_RXD	MAKE_BASE=TRUE	WLAN_UART_TXD	
42 13	OUT	HOST_WAKE_WLAN	MAKE_BASE=TRUE	HOST_WAKE_WLAN	
42 3	IN	BT_WAKE	MAKE_BASE=TRUE	BT_WAKE	
42 13	IN	CLK32K_WIFI	MAKE_BASE=TRUE	CLK32K_AP	
42 13	OUT	HOST_WAKE_BT	MAKE_BASE=TRUE	HOST_WAKE_BT	
42 3	IN	UART3_RTS_L	MAKE_BASE=TRUE	BT_UART_CTS_L	
42 3	OUT	UART3_CTS_L	MAKE_BASE=TRUE	BT_UART_RTS_L	
42 3	IN	UART3_TXD	MAKE_BASE=TRUE	BT_UART_RXD	
42 3	OUT	UART3_RXD	MAKE_BASE=TRUE	BT_UART_TXD	
42 3	IN	45_I2S3_BCLK	MAKE_BASE=TRUE	BT_PCM_CLK	
42 3	IN	I2S3_DOUT	MAKE_BASE=TRUE	BT_PCM_IN	
42 3	IN	I2S3_DIN	MAKE_BASE=TRUE	BT_PCM_OUT	
42 3	IN	I2S3_LRCLK	MAKE_BASE=TRUE	BT_PCM_SYNC	
26 3	IN	50_HSIC1_DATA	MAKE_BASE=TRUE	50_HSIC_BB_DATA	
26 3	IN	50_HSIC1_STB	MAKE_BASE=TRUE	50_HSIC_BB_STROBE	
30 3	IN	AP_WAKE_MODEM	MAKE_BASE=TRUE	AP_WAKE_MODEM	
42 3	IN	50_HSIC3_DATA	MAKE_BASE=TRUE	50_HSIC_WLAN_DATA	
42 3	IN	50_HSIC3_STB	MAKE_BASE=TRUE	50_HSIC_WLAN_STROBE	
26 3	IN	AP_HSIC1_RDY	MAKE_BASE=TRUE	AP_HSIC1_RDY	
27 16	OUT	PP_LDO14_2P65	MAKE_BASE=TRUE	PP_LDO14_2P65	
26 16	OUT	LAT_SW1_CTL	MAKE_BASE=TRUE	LAT_SW1_CTL	
42 3	IN	WLAN_HSIC3_RESUME	MAKE_BASE=TRUE	WLAN_HSIC3_RESUME	

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RADIO BOM OPTIONS

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HW ID PA ID BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
118S0685	1	PA_ID RES DIVIDER	R304_RF	Y	B4_17
118S0656	1	PA_ID RES DIVIDER	R304_RF	Y	B3_13
118S0719	1	PA_ID RES DIVIDER	R302_RF	Y	B4_17
118S0685	1	PA_ID RES DIVIDER	R302_RF	Y	B3_13

SPI NOR BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B4_17
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B3_13

B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3415	1	SKY77487 BAND 5/8 PAD	U1001_RF	Y	B4_17
353S3568	1	SKY77491 BAND5E/8 PAD	U1001_RF	Y	B3_13
155S0552	1	BAND5 TX SAW	FL1001_RF	Y	B4_17
155S0742	1	BAND5/BC10 TX SAW	FL1001_RF	Y	B3_13
152S1563	1	1.5NH, INDUCTOR - MURATA	L1001_RF	Y	B4_17
152S1662	1	1.5NH, INDUCTOR - TDK	L1001_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1002_RF	Y	B4_17
152S1665	1	15NH, INDUCTOR - TDK	L1002_RF	Y	B3_13
152S1576	1	12NH, INDUCTOR - MURATA	L1003_RF	Y	B4_17
152S1664	1	12NH, INDUCTOR - TDK	L1003_RF	Y	B3_13
152S1570	1	4.7NH, INDUCTOR - MURATA	L1010_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	L1010_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1328	1	4.3NH INDUCTOR - 0201	C1111_RF	Y	B4_17
152S1353	1	3.6NH INDUCTOR - 0201	C1111_RF	Y	B3_13
131S0198	1	1.8PF CAPACITOR - 0201	L1103_RF	Y	B4_17
118S0724	1	0 OHM JUMPER - 0201	C1112_RF	Y	B4_17
131S0204	1	22PF CAPACITOR - 0201	C1112_RF	Y	B3_13
118S0724	1	0 OHM JUMPER - 0201	L1105_RF	Y	B4_17
152S1443	1	2.0NH INDUCTOR - 0201	L1105_RF	Y	B3_13
152S1320	1	7.5NH INDUCTOR - 0201	C1113_RF	Y	B4_17
131S0166	1	39PF CAPACITOR - 0201	C1113_RF	Y	B3_13
131S0176	1	2.4PF CAPACITOR - 0201	C1117_RF	Y	B4_17

DCDC BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B4_17
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B3_13
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B3_13

WIFI BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B4_17
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B3_13
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B4_17
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B3_13

SINGING CAP BOM OPTIONS
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B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
117S0002	1	0 OHM RESISTOR - 0201	C1023_RF	Y	B4_17
152S1343	1	12NH INDUCTOR - 0201	C1012_RF	Y	B4_17
131S0428	1	10PF CAPACITOR - 0201	L1004_RF	Y	B4_17
131S0457	1	100PF CAPACITOR - 0201	C1023_RF	Y	B3_13
131S0425	1	0.5PF CAPACITOR - 0201	C1012_RF	Y	B3_13
152S1336	1	8.2NH INDUCTOR - 0201	L1004_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0620	1	BAND17 TX SAW	FL1101_RF	Y	B4_17
155S0619	1	BAND13 TX SAW	FL1101_RF	Y	B3_13
353S3567	1	BAND17 PAM - SKYWORKS	U1101_RF	Y	B4_17
353S3441	1	BAND13 PAM - AVAGO	U1101_RF	Y	B3_13
155S0709	1	BAND17 DUPLEXER - MURATA	U1102_RF	Y	B4_17
155S0738	1	BAND13 DUPLEXER - EPCOS	U1102_RF	Y	B3_13
152S1336	1	BAND17 INDUCTOR - 8.2NH	L1104_RF	Y	B4_17
152S1342	1	BAND13 INDUCTOR - 15NH	L1104_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1102_RF	Y	B4_17
152S1576	1	12NH, INDUCTOR - MURATA	L1102_RF	Y	B3_13

B2 PAD BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3715	1	TQM666084 B2 TQS PAD	U1501_RF	Y	B4_17
353S3459	1	TQM666083 B2S TQS PAD	U1501_RF	Y	B3_13

DIVERISTY MODULE BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3516	1	B17 MURATA DIVERSITY MODULE	U1601_RF	Y	B4_17
353S3562	1	B13/BC10 DIVERSITY MODULE	U1601_RF	Y	B3_13

B3/DCS1800 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0596	1	DCS1800 RX FIL	FL1301_RF	Y	B4_17
155S0729	1	BAND3 RX FIL	FL1301_RF	Y	B3_13
155S0695	1	THRU LINE	FL1302_RF	Y	B4_17
155S0722	1	BAND13 TX LPF	FL1302_RF	Y	B3_13
152S1656	1	3.0NH INDUCTOR	R1301_RF	Y	B3_13
152S1742	1	1.6NH INDUCTOR	R1302_RF	Y	B4_17
118S0652	1	49.90HM RES	R1303_RF	Y	B3_13
118S0652	1	49.90HM RES	R1305_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR	L1304_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1304_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR	L1305_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1305_RF	Y	B3_13
152S1569	1	3.9NH INDUCTOR	L1301_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR	L1301_RF	Y	B3_13

B3/B4 RX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1570	1	4.7NH INDUCTOR - 01005	C1414_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1415_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1420_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR - 01005	L1416_RF	Y	B4_17
152S1571	1	5.6NH INDUCTOR - 01005	C1414_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1415_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1420_RF	Y	B3_13
152S1571	1	5.6NH INDUCTOR - 01005	L1416_RF	Y	B3_13
131S0219	1	10PF CAPACITOR - 01005	L1420_RF	Y	B4_17
131S0219	1	10PF CAPACITOR - 01005	L1421_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR - 01005	L1420_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR - 01005	L1421_RF	Y	B3_13
152S1328	1	4.3NH INDUCTOR - 0201	R1402_RF	Y	B4_17
152S1688	1	3.5NH INDUCTOR - 0201	C1416_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	R1402_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1416_RF	Y	B3_13

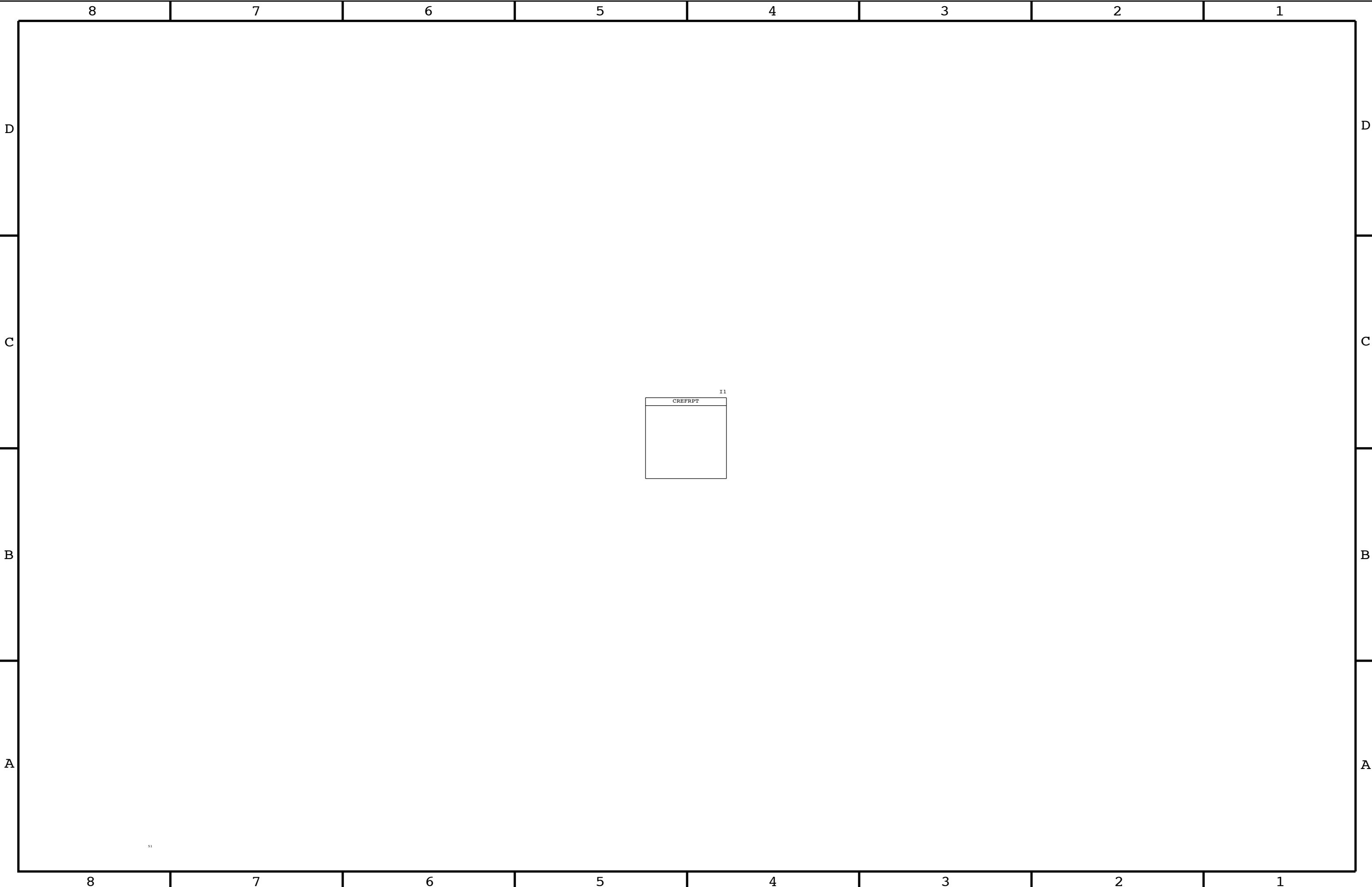
B3/B4 TX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S0215	1	22PF CAPACITOR - 01005	L1417_RF	Y	B4_17
152S1569	1	3.9NH INDUCTOR - 01005	L1417_RF	Y	B3_13
131S0369	1	0.5PF CAPACITOR - 01005	L1408_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B4_17
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B4_17
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B3_13
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B3_13
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B3_13

B3/B4 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3255	1	B1/4 PAD - AVAGO	U1401_RF	Y	B4_17
353S3443	1	B1/3 PAD - AVAGO	U1401_RF	Y	B3_13
155S0590	1	B4 TX FIL	FL1402_RF	Y	B4_17
155S0712	1	B3 TX FIL	FL1402_RF	Y	B3_13

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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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2012-07-02

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N41 RADIO_MLB SUBDESIGN

RADIO - 07/12/2012:SUBDESIGN

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BOM OPTION TABLES

PART#

QTY

DESCRIPTION

REFERENCE DESIGNATOR(S)

CRITICAL

BOM OPTION

051-9119

1

N41_RADIO_MLB

SCH

Y

825-2029

1

EEE FOR 639-2482

EEEE_DNVM

Y

B4_17

825-2029

1

EEE FOR 639-3241

EEEE_DW3L

Y

B3_13

SCH #

:051-9119

BOM (B4_17)

:639-2482

BOM (B3_13)

:639-3241

DRAWING TITLE

N41 RADIO_MLB V1

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REVISION

16.0.0

BRANCH

PAGE

1 OF 19

SHEET

25 OF 51

SIZE

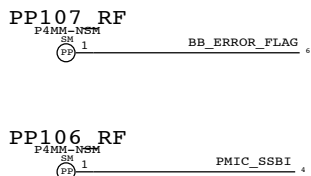
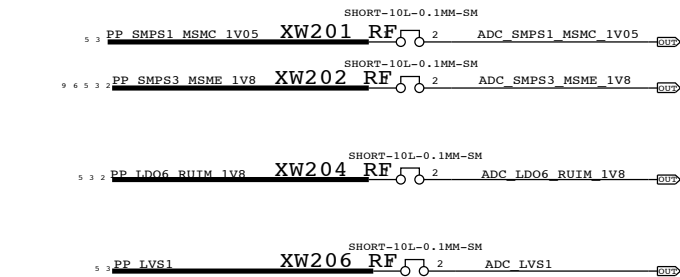
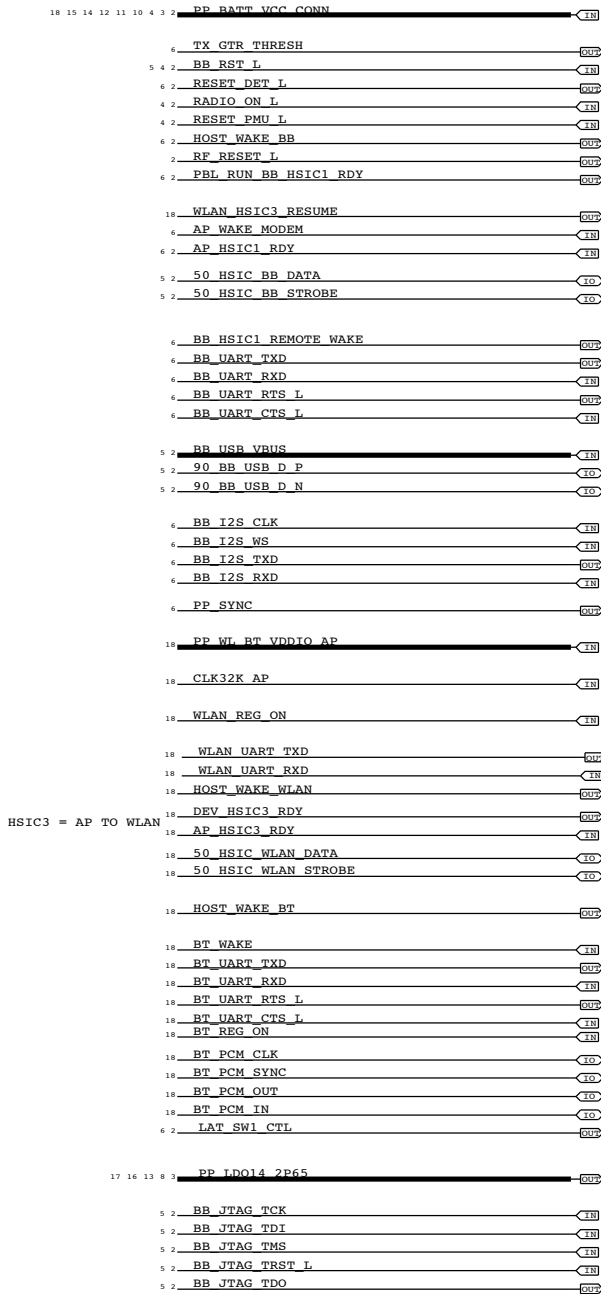
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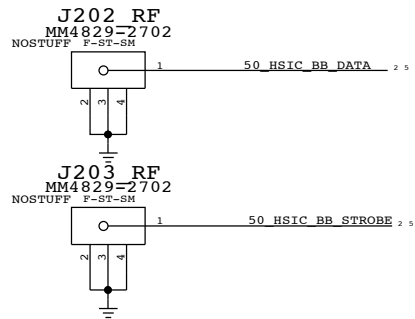
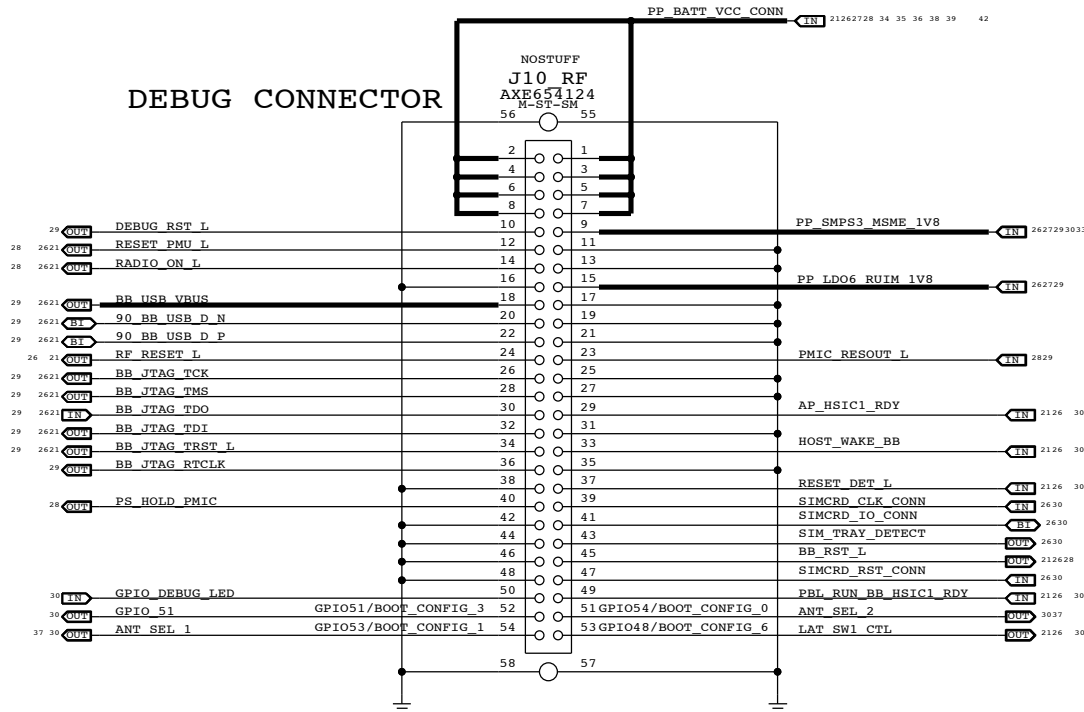
AP INTERFACE & DEBUG CONNECTOR

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AP CONNECTIONS

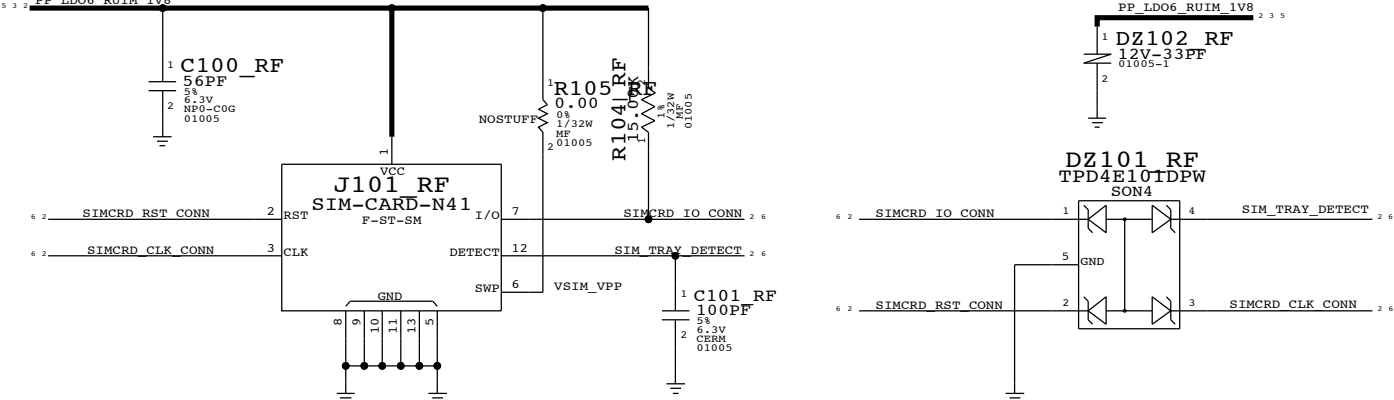


DEBUG CONNECTOR



BOOT OPTIONS	BOOT_CONFIG SW REGISTER VALUE	GPIO/BOOT_CONFIG CONFIGURATION															
		47	48	49	50	51	52	53	54	55	0	1	2	3	4	5	6
BOOT_DEFAULT_OPTION	0X00	X	0	0	0	0	0	0	0	0	X						
BOOT_NAND_OPTION	0X01	X	1	0	0	0	0	0	0	1	X						
BOOT_HSIC_OPTION	0X02	X	1	0	0	0	0	0	1	0	X						
BOOT_USB_OPTION	0X03	X	1	0	0	0	0	0	1	1	X						
ENABLE_SAHARA_PROTOCOL	0X08	X	1	0	0	0	1	0	X	X	X						

SIM CARD CONNECTOR



R R105
C C101
XWXW206
DZDZ101
U U101

PAGE TITLE			
SYSTEM & DEBUG CONNECTORS			
 Apple Inc.	DRAWING NUMBER	051-9113	SIZE
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BASEBAND PMU (1 OF 2)

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D

C

B

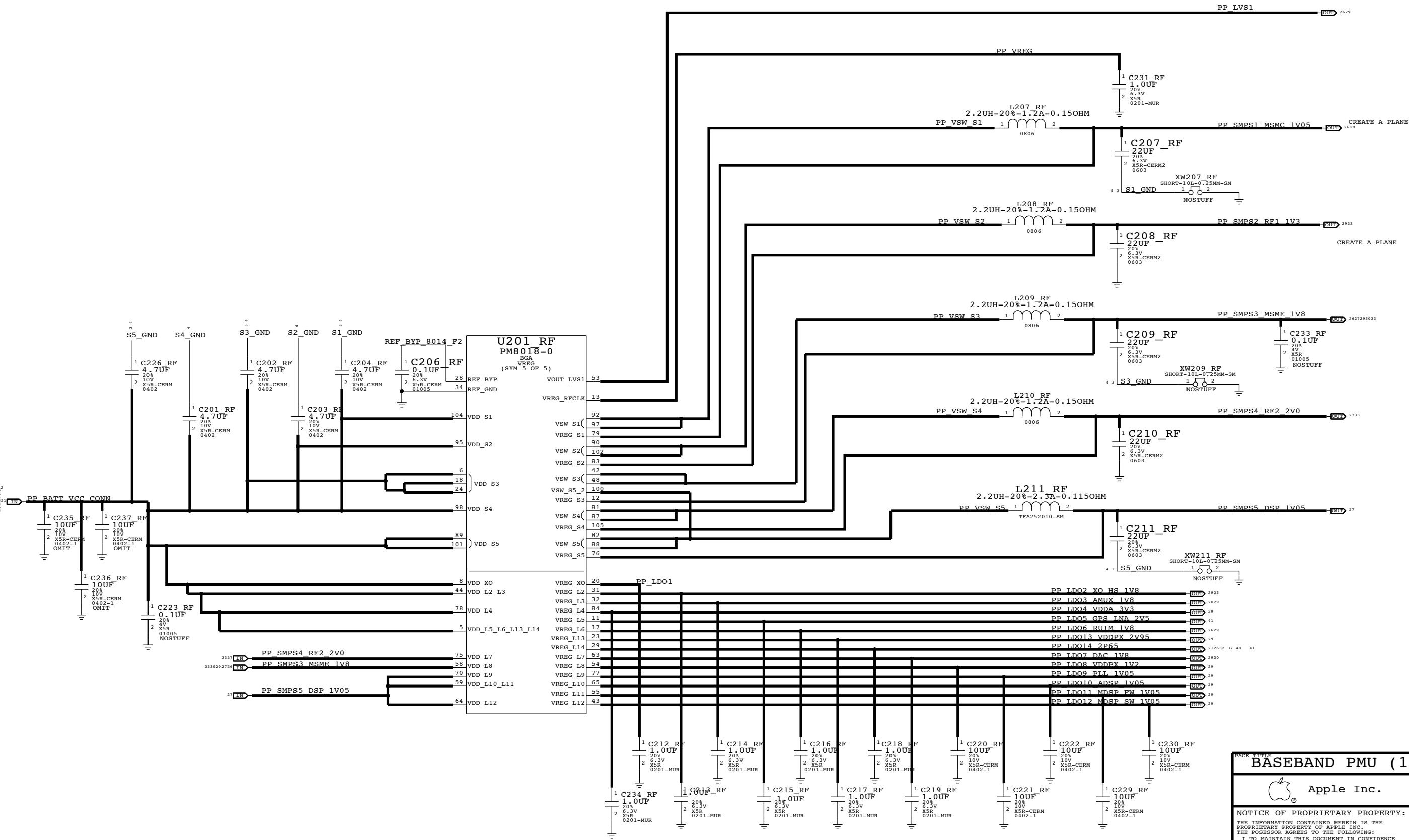
A

D

C

B

A



R R207
C C237
L L211
U U201

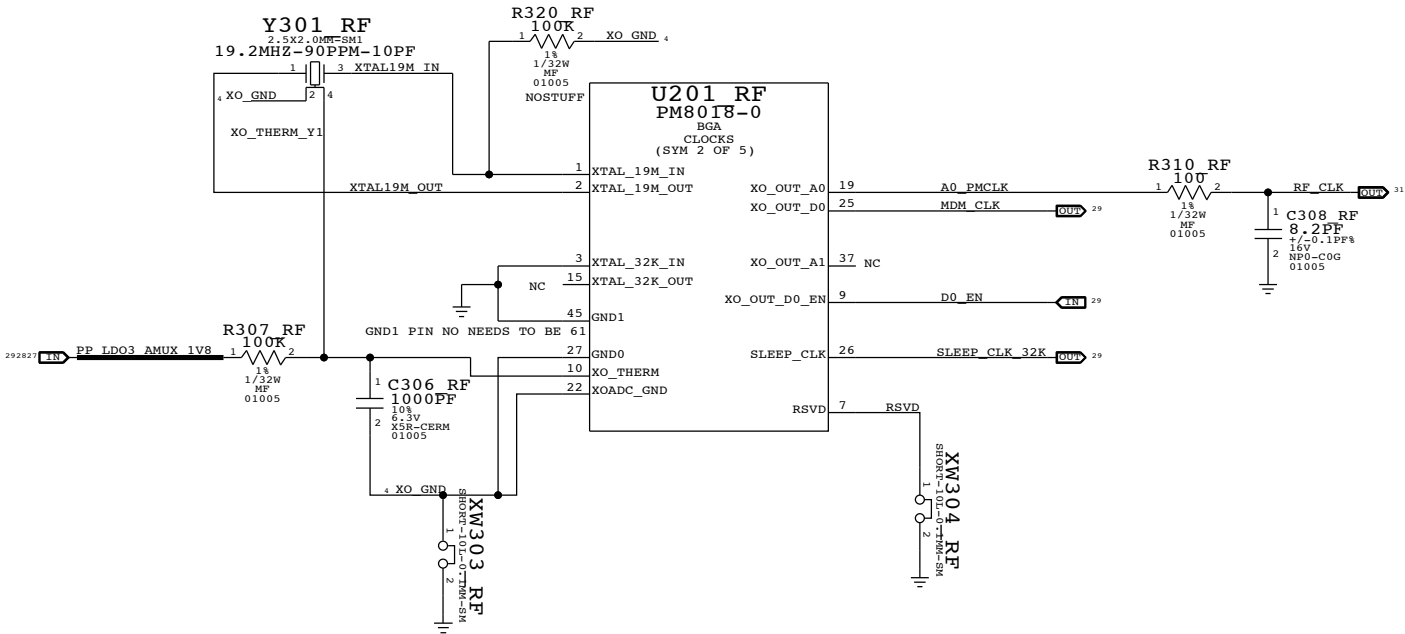
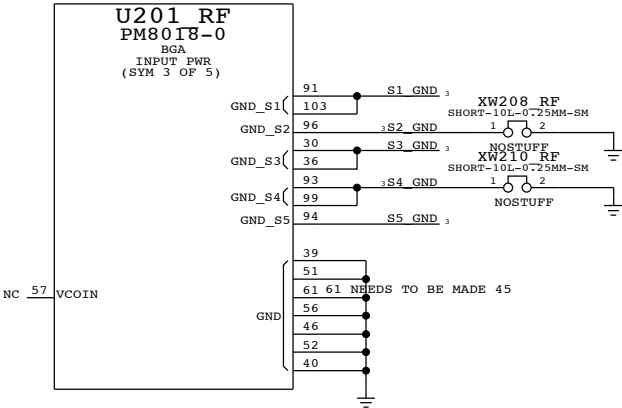
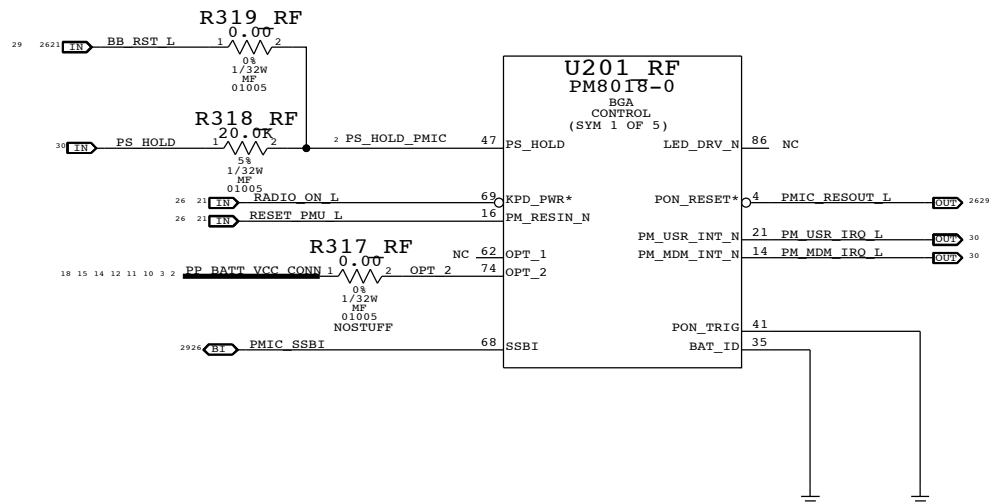
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BASEBAND PMU (2 OF 2)

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BOARD_ID	REVISION
0.25V : >0.2V && <0.4V	PROTO1
0.50V : >0.4V && <0.6V	PROTO2
0.70V : >0.6V && <0.8V	PROTO3
0.90V : >0.8V && <1.0V	EVT1
1.10V : >1.0V && <1.2V	EVT2
1.30V : >1.2V && <1.4V	EVT3/PVT

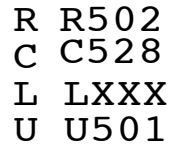
PA_ID	PA CONFIG
0.25V >0.2V && <0.4V	B4_17 MAIN
0.50V >0.4V && <0.6V	BUILD MATRIX
0.70V >0.6V && <0.8V	BUILD MATRIX
1.10V >1.0V && <1.2V	B3_13 MAIN
1.30V >1.2V && <1.4V	BUILD MATRIX
1.50V >1.4V && <1.6V	BUILD MATRIX



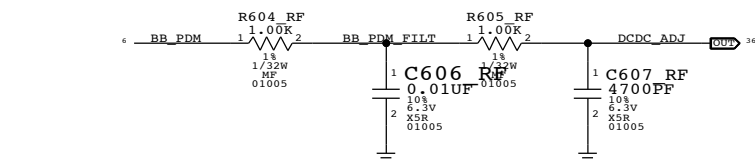
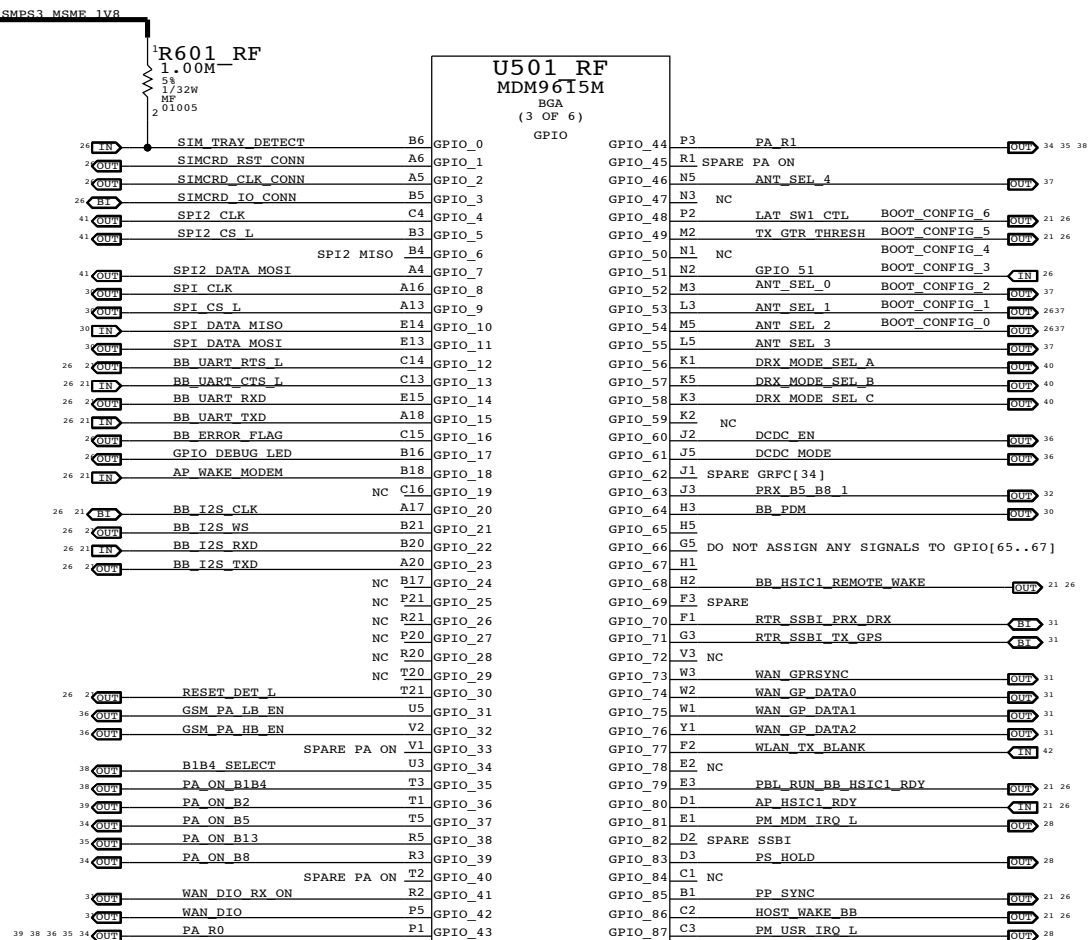
R R320
C C309
L LXXX
U U301
XW XW305

PAGE TITLE		
BASEBAND PMU (2 OF 2)		
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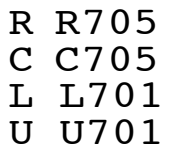
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R R608
C C609
L L601

PAGE TITLE		MOBILE DATA MODEM (2 OF 2)	
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	BRANCH		
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RF TRANSCEIVER SWITCHING NETWORKS (2 OF 3)

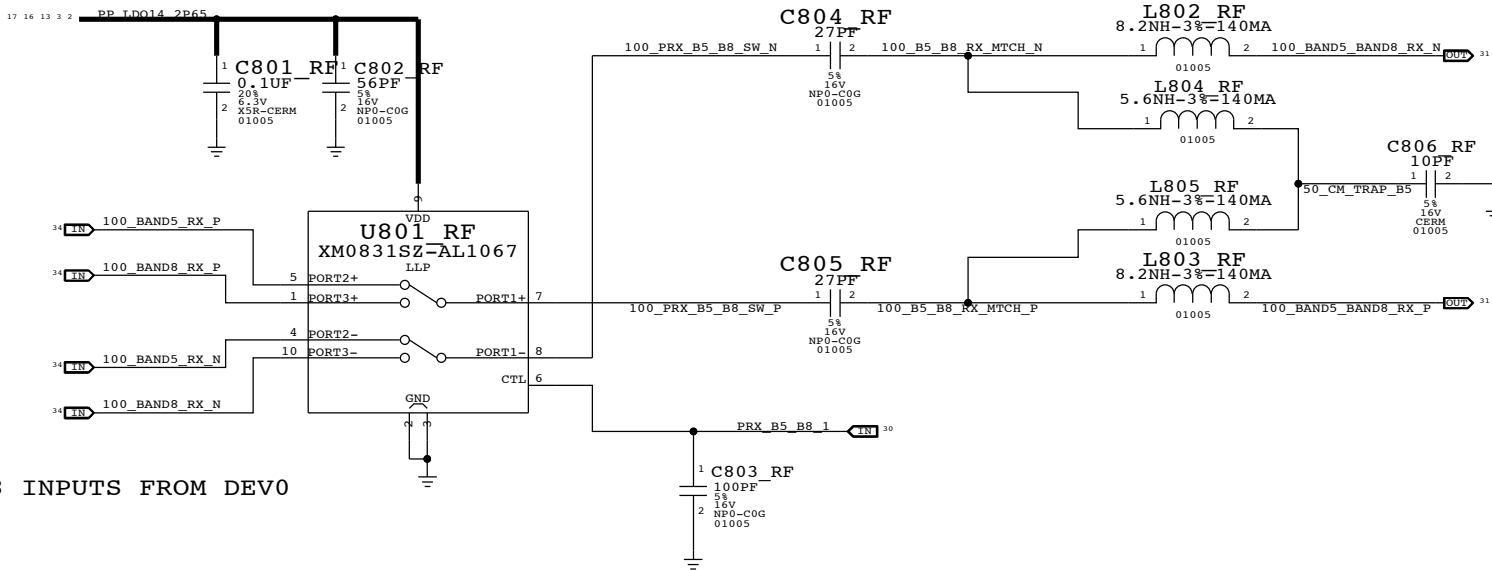
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BAND 5/BAND 8 PRX TRANSCEIVER SWITCH

XM0830SZ SWITCH LOGIC

PRX_B5_B8	ACTIVE BAND	PORT
=====	=====	=====
HIGH	8	PORT 1 TO PORT 3
LOW	5	PORT 1 TO PORT 2

SWAPPED BAND5 AND BAND8 INPUTS FROM DEVO



R RXXX
C C806
L L803
U U801

PAGE TITLE		
RF TRANSCEIVER (2 OF 3)		
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D



B

C

B

A

PAGE TITLE		RF TRANSCEIVER (3 OF 3)	
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		SHEET	33 OF 51

BAND 5/8 PAD

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Legend:

- R R1003
- C C1023
- L L1010
- U U1001

Component Values:

- C1001_RF: 3.0PF
- C1002_RF: 33PF
- C1003_RF: 82PF
- C1005_RF: 47PF
- C1006_RF: 33PF
- C1007_RF: 100PF
- C1008_RF: 100PF
- C1009_RF: 100PF
- C1010_RF: 100PF
- C1011_RF: 100PF
- C1012_RF: 12NH+/-3%-0.25A-0.70HM
- C1013_RF: 1.1PF
- C1014_RF: 33PF
- C1016_RF: 33PF
- C1018_RF: 39PF
- C1019_RF: 39PF
- C1020_RF: 0.1UF
- C1021_RF: 220PF
- C1022_RF: 1.0UF
- C1023_RF: 33PF
- L1001_RF: 1.5NH+/-0.1NH-220MA
- L1002_RF: 15NH-3%-140MA
- L1003_RF: 12NH-3%-140MA
- L1004_RF: 10PF
- L1006_RF: 7PF
- L1007_RF: 1.0NH+/-0.1NH-0.22A-0.90HM
- L1009_RF: 15NH-5%-140MA
- L1010_RF: 4.7NH-3%-160MA

BAND 5/8 PAD

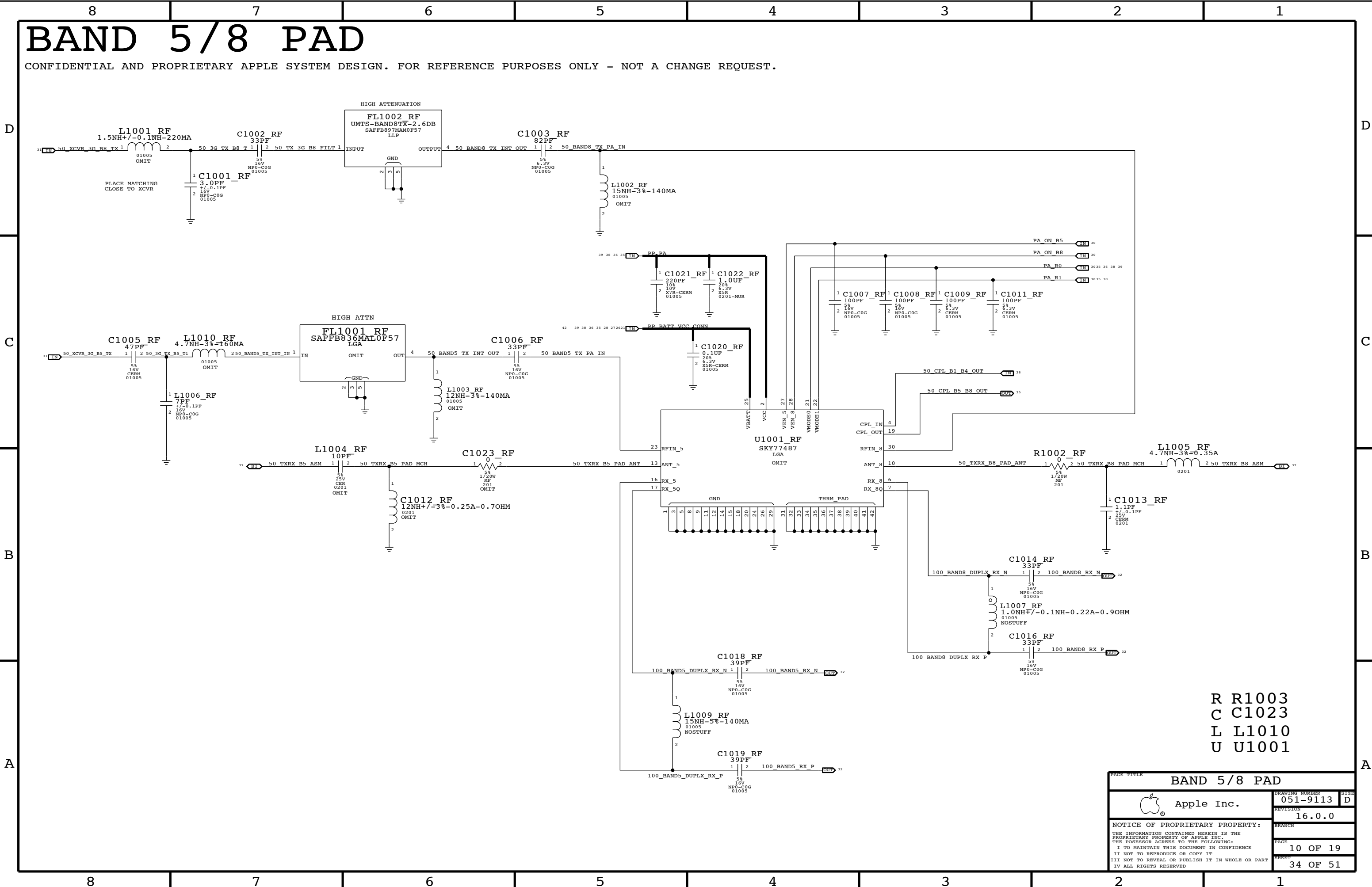
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Legend:

- R R1003
- C C1023
- L L1010
- U U1001

Title Block:

PAGE TITLE	
BAND 5/8 PAD	
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BAND 5/8 PAD

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Legend:

- R R1003
- C C1023
- L L1010
- U U1001

Component Values:

- L1001 RF: 1.5NH+/-0.1NH-220MA
- C1002 RF: 33PF
- FL1002 RF: UMTS-BAND8TX-2.6DB SAFFB897MAM0F57 LLP
- C1003 RF: 82PF
- L1002 RF: 15NH-3%-140MA
- C1001 RF: 3.0PF
- C1005 RF: 47PF
- L1010 RF: 4.7NH-3%-160MA
- FL1001 RF: SAFFB836MAL0F57 LGA
- C1006 RF: 33PF
- L1003 RF: 12NH-3%-140MA
- C1007 RF: 100PF
- C1008 RF: 100PF
- C1009 RF: 100PF
- C1011 RF: 100PF
- C1012 RF: 12NH+/-3%-0.25A-0.70HM
- C1013 RF: 1.1PF
- C1014 RF: 33PF
- C1016 RF: 33PF
- C1018 RF: 39PF
- C1019 RF: 39PF
- L1004 RF: 10PF
- L1005 RF: 4.7NH-3%-0.35A
- L1006 RF: 7PF
- L1007 RF: 1.0NH+/-0.1NH-0.22A-0.90HM
- L1009 RF: 15NH-5%-140MA
- U1001 RF: SKY77487 LGA
- R1002 RF: 1/20W

BAND 5/8 PAD

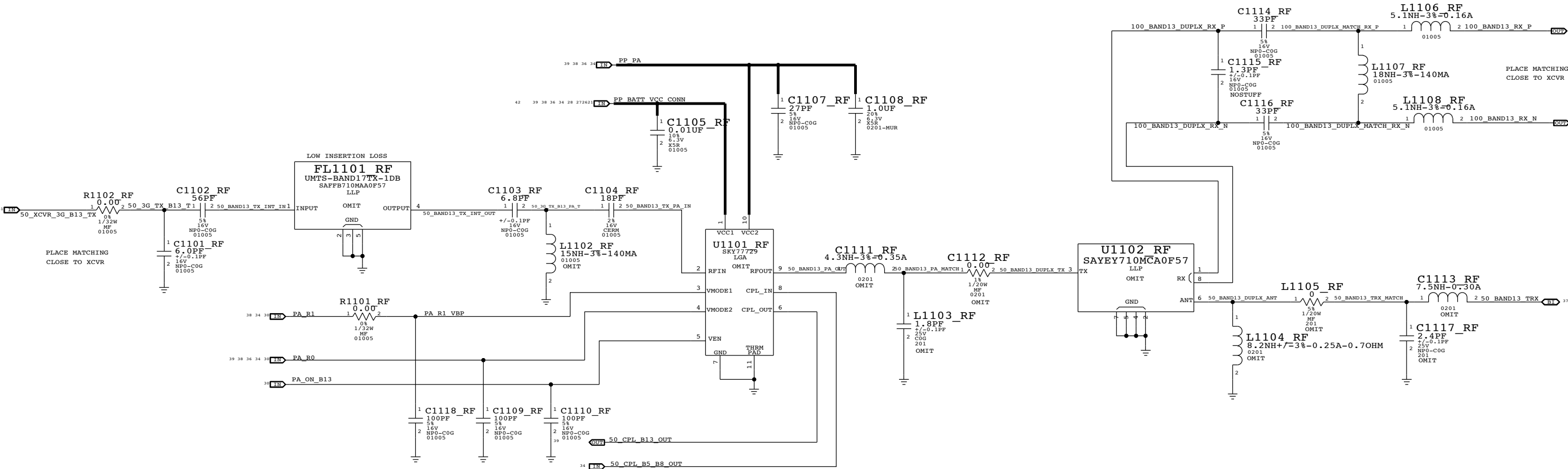
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Parts List:

- R R1003
- C C1023
- L L1010
- U U1001

B13/17 INTERSTAGE, PA, AND DUPLEXER

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FLFL1101
R R1102
C C1118
L L1108
U U1102

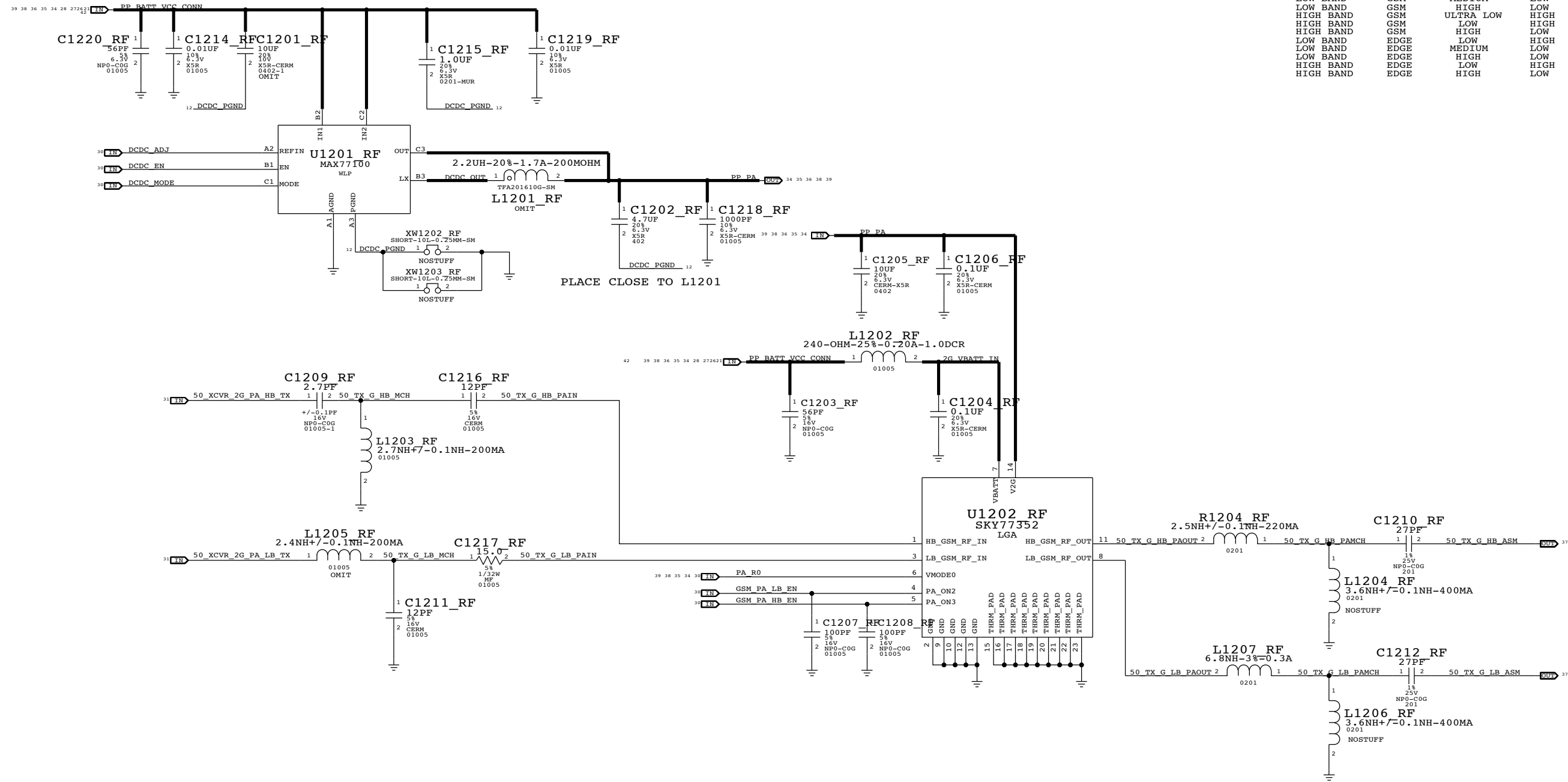
PA POWER MODES

MODE	PA_R0	PA_R1
LOW	HIGH	HIGH
MEDIUM	LOW	HIGH
HIGH	LOW	LOW

PAGE TITLE		
BAND 13 PA		
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2G PA, PA DC/DC CONVERTER

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2G PA GAIN MODES

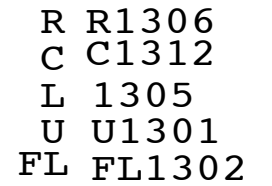
BAND	MODE	GAIN MODE	PA_R1	PCL RANGE
LOW BAND	GSM	ULTRA LOW	HIGH	16 TO 19
LOW BAND	GSM	LOW	HIGH	14 TO 15
LOW BAND	GSM	MEDIUM	LOW	7 TO 13
LOW BAND	GSM	HIGH	LOW	5 TO 6
HIGH BAND	GSM	ULTRA LOW	HIGH	10 TO 15
HIGH BAND	GSM	LOW	HIGH	7 TO 9
HIGH BAND	GSM	HIGH	LOW	0 TO 6
LOW BAND	EDGE	LOW	HIGH	15 TO 19
LOW BAND	EDGE	MEDIUM	LOW	10 TO 14
LOW BAND	EDGE	HIGH	LOW	8 TO 9
HIGH BAND	EDGE	LOW	HIGH	9 TO 15
HIGH BAND	EDGE	HIGH	LOW	2 TO 8

R R1209
C C1220
L L1207
U U1202

PAGE TITLE		
2G PA, DCDC CONVERTER		
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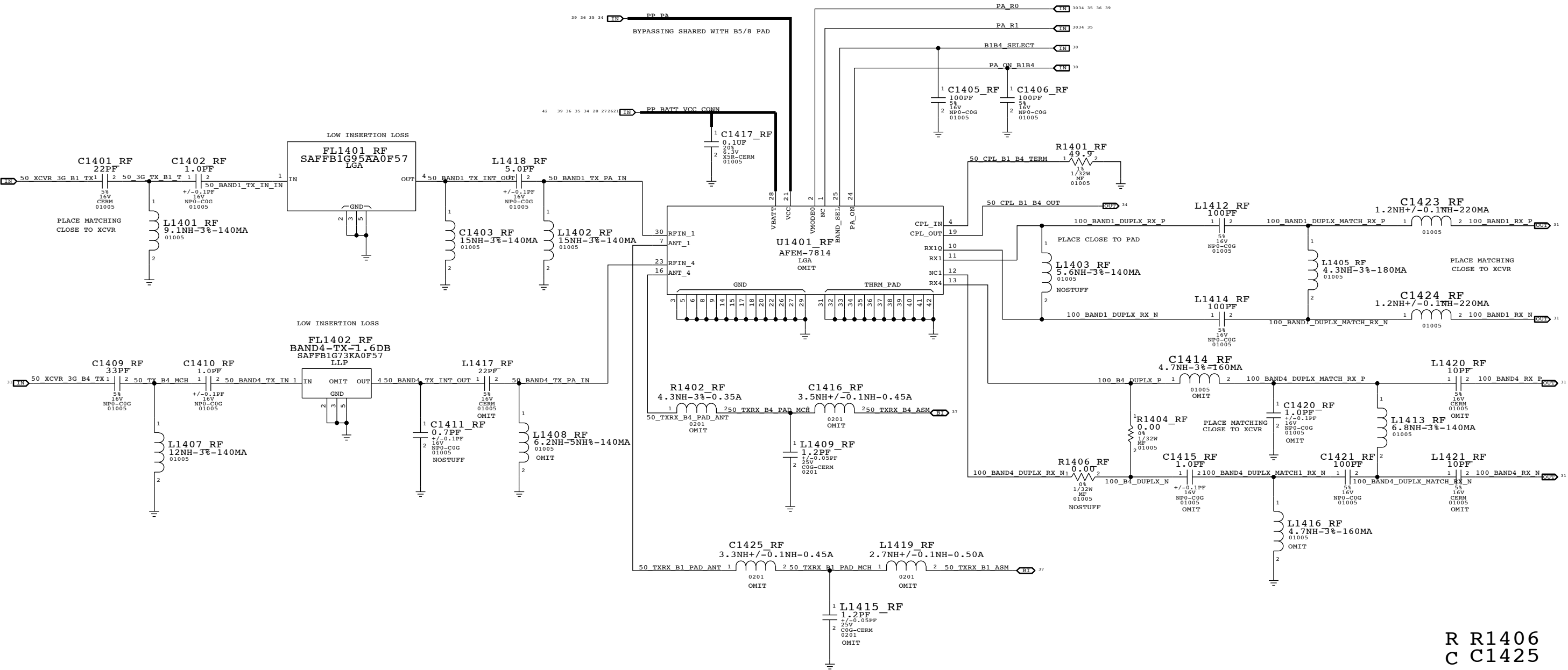
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8	7	6	5	4	3	2	1
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BAND 1/4 PAD

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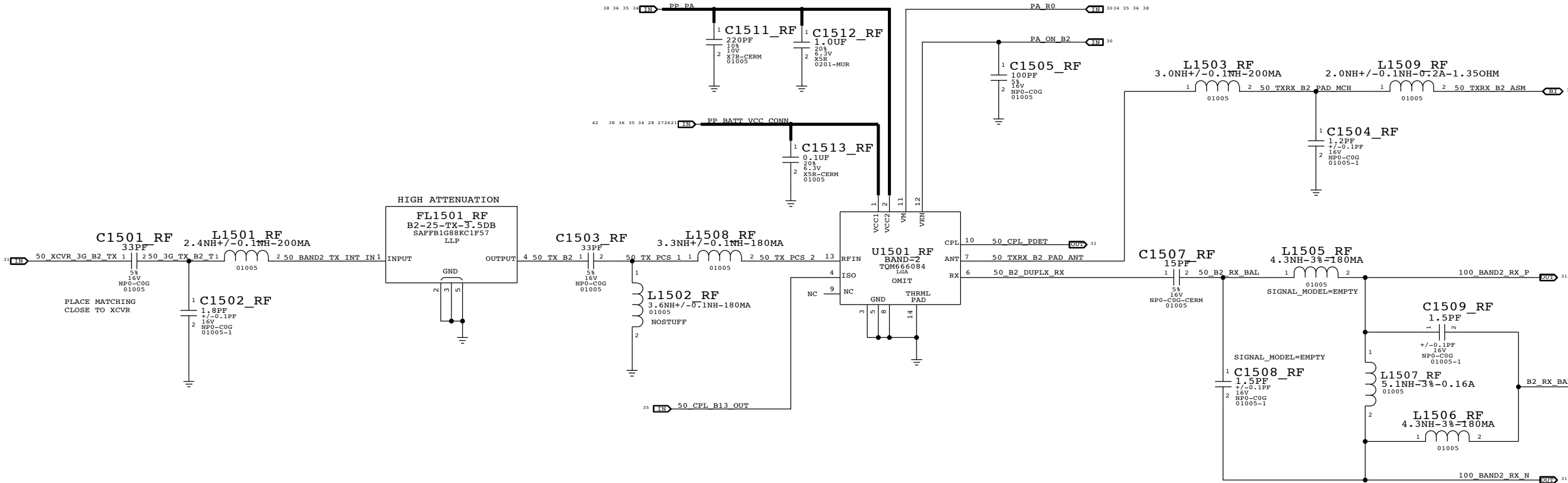


R R1406
C C1425
L L1422
U U1401
FL FL1101

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BAND2 PAD

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R R1501
C C1513
L L1509
U U1501
FL FL1501

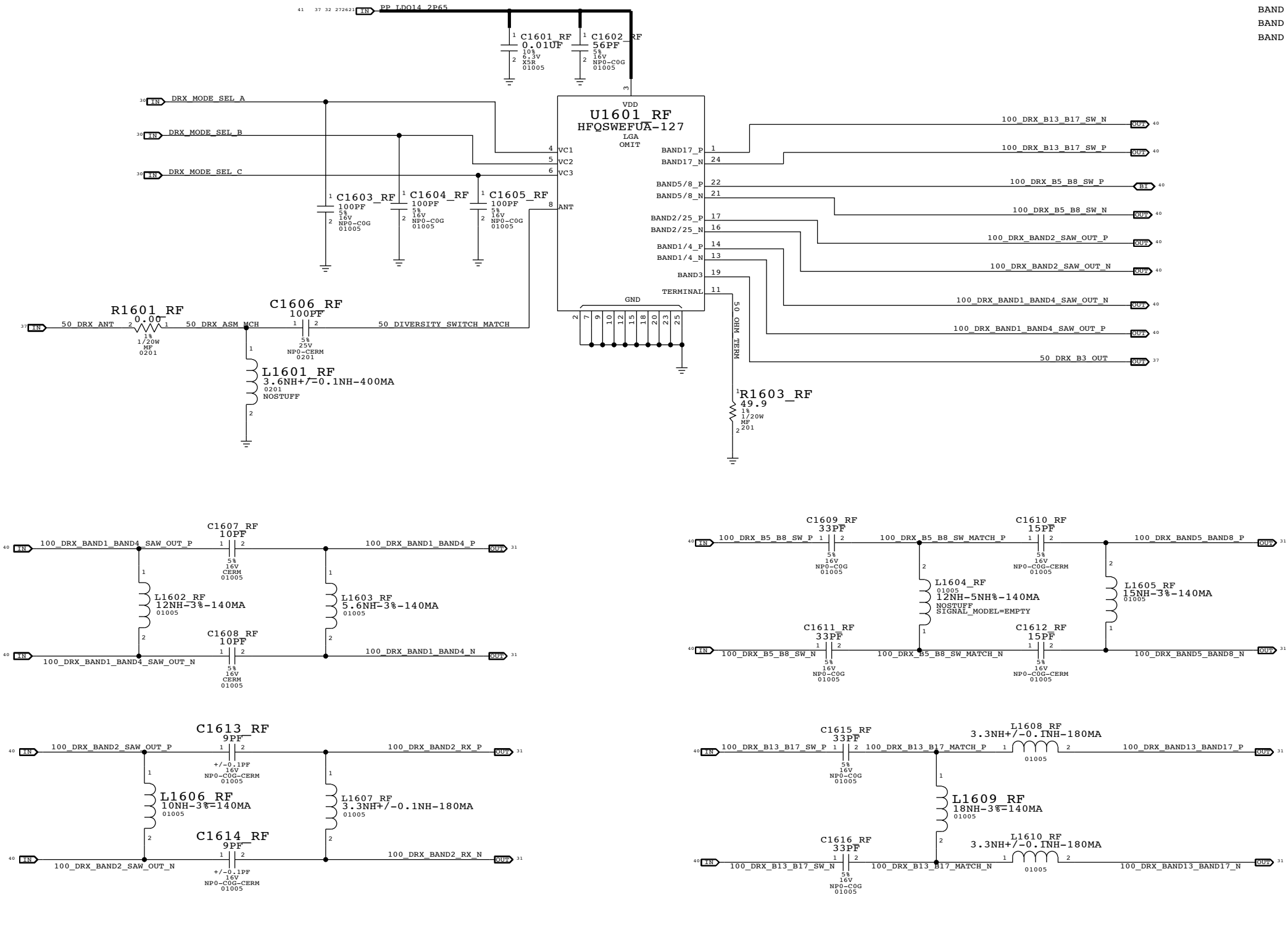
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BAND2 PAD		
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RX DIVERSITY

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DIVERSITY MODULE LOGIC

BAND	VC1	VC2	VC3
=====			
BAND 1/4			
BAND 2			
BAND 5			
BAND 8			
BAND 13/17			



R R1603
C C1616
L L1610
U U1601

PAGE TITLE		
RX DIVERSITY		
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GPS

D

D

C

C

B

B

A

A

UPPER_ANT_CELL

UPPER_ANT_GPS

LOWER_ANT

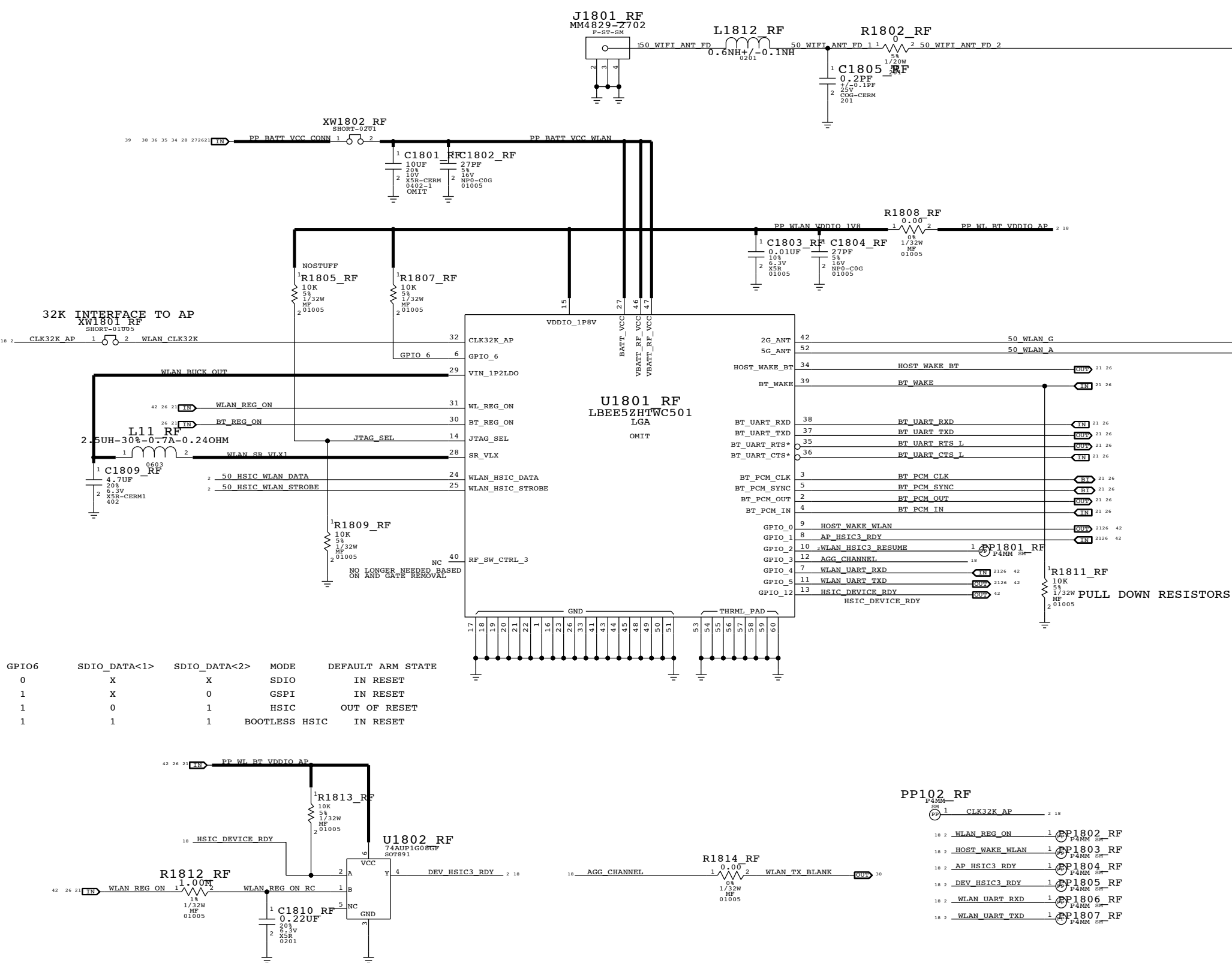
R R1704
C C1729
L L1733
U U1703

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GPS		
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WLAN/BT

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R R1815
C C1811
L L1812
U U1802
J J1802

RADIO BOM OPTIONS

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HW ID PA ID BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
118S0685	1	PA_ID RES DIVIDER	R304_RF	Y	B4_17
118S0656	1	PA_ID RES DIVIDER	R304_RF	Y	B3_13
118S0719	1	PA_ID RES DIVIDER	R302_RF	Y	B4_17
118S0685	1	PA_ID RES DIVIDER	R302_RF	Y	B3_13

SPI NOR BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B4_17
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B3_13

B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3415	1	SKY77487 BAND 5/8 PAD	U1001_RF	Y	B4_17
353S3568	1	SKY77491 BAND5E/8 PAD	U1001_RF	Y	B3_13
155S0552	1	BAND5 TX SAW	FL1001_RF	Y	B4_17
155S0742	1	BAND5/BC10 TX SAW	FL1001_RF	Y	B3_13
152S1563	1	1.5NH, INDUCTOR - MURATA	L1001_RF	Y	B4_17
152S1662	1	1.5NH, INDUCTOR - TDK	L1001_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1002_RF	Y	B4_17
152S1665	1	15NH, INDUCTOR - TDK	L1002_RF	Y	B3_13
152S1576	1	12NH, INDUCTOR - MURATA	L1003_RF	Y	B4_17
152S1664	1	12NH, INDUCTOR - TDK	L1003_RF	Y	B3_13
152S1570	1	4.7NH, INDUCTOR - MURATA	L1010_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	L1010_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1328	1	4.3NH INDUCTOR - 0201	C1111_RF	Y	B4_17
152S1353	1	3.6NH INDUCTOR - 0201	C1111_RF	Y	B3_13
131S0198	1	1.8PF CAPACITOR - 0201	L1103_RF	Y	B4_17
118S0724	1	0 OHM JUMPER - 0201	C1112_RF	Y	B4_17
131S0204	1	22PF CAPACITOR - 0201	C1112_RF	Y	B3_13
118S0724	1	0 OHM JUMPER - 0201	L1105_RF	Y	B4_17
152S1443	1	2.0NH INDUCTOR - 0201	L1105_RF	Y	B3_13
152S1320	1	7.5NH INDUCTOR - 0201	C1113_RF	Y	B4_17
131S0166	1	39PF CAPACITOR - 0201	C1113_RF	Y	B3_13
131S0176	1	2.4PF CAPACITOR - 0201	C1117_RF	Y	B4_17

DCDC BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B4_17
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B3_13
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B3_13

WIFI BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B4_17
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B3_13
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B4_17
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B3_13

SINGING CAP BOM OPTIONS
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WHEN STAN FINISHES

B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
117S0002	1	0 OHM RESISTOR - 0201	C1023_RF	Y	B4_17
152S1343	1	12NH INDUCTOR - 0201	C1012_RF	Y	B4_17
131S0428	1	10PF CAPACITOR - 0201	L1004_RF	Y	B4_17
131S0457	1	100PF CAPACITOR - 0201	C1023_RF	Y	B3_13
131S0425	1	0.5PF CAPACITOR - 0201	C1012_RF	Y	B3_13
152S1336	1	8.2NH INDUCTOR - 0201	L1004_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0620	1	BAND17 TX SAW	FL1101_RF	Y	B4_17
155S0619	1	BAND13 TX SAW	FL1101_RF	Y	B3_13
353S3567	1	BAND17 PAM - SKYWORKS	U1101_RF	Y	B4_17
353S3441	1	BAND13 PAM - AVAGO	U1101_RF	Y	B3_13
155S0709	1	BAND17 DUPLEXER - MURATA	U1102_RF	Y	B4_17
155S0738	1	BAND13 DUPLEXER - EPCOS	U1102_RF	Y	B3_13
152S1336	1	BAND17 INDUCTOR - 8.2NH	L1104_RF	Y	B4_17
152S1342	1	BAND13 INDUCTOR - 15NH	L1104_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1102_RF	Y	B4_17
152S1576	1	12NH, INDUCTOR - MURATA	L1102_RF	Y	B3_13

B2 PAD BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3715	1	TQM666084 B2 TQS PAD	U1501_RF	Y	B4_17
353S3459	1	TQM666083 B25 TQS PAD	U1501_RF	Y	B3_13

DIVERISTY MODULE BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3516	1	B17 MURATA DIVERSITY MODULE	U1601_RF	Y	B4_17
353S3562	1	B13/BC10 DIVERSITY MODULE	U1601_RF	Y	B3_13

B3/DCS1800 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0596	1	DCS1800 RX FIL	FL1301_RF	Y	B4_17
155S0729	1	BAND3 RX FIL	FL1301_RF	Y	B3_13
155S0695	1	THRU LINE	FL1302_RF	Y	B4_17
155S0722	1	BAND13 TX LPF	FL1302_RF	Y	B3_13
152S1656	1	3.0NH INDUCTOR	R1301_RF	Y	B3_13
152S1742	1	1.6NH INDUCTOR	R1302_RF	Y	B4_17
118S0652	1	49.90HM RES	R1303_RF	Y	B3_13
118S0652	1	49.90HM RES	R1305_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR	L1304_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1304_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR	L1305_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1305_RF	Y	B3_13
152S1569	1	3.9NH INDUCTOR	L1301_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR	L1301_RF	Y	B3_13

B3/B4 RX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1570	1	4.7NH INDUCTOR - 01005	C1414_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1415_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1420_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR - 01005	L1416_RF	Y	B4_17
152S1571	1	5.6NH INDUCTOR - 01005	C1414_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1415_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1420_RF	Y	B3_13
152S1571	1	5.6NH INDUCTOR - 01005	L1416_RF	Y	B3_13
131S0219	1	10PF CAPACITOR - 01005	L1420_RF	Y	B4_17
131S0219	1	10PF CAPACITOR - 01005	L1421_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR - 01005	L1420_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR - 01005	L1421_RF	Y	B3_13
152S1328	1	4.3NH INDUCTOR - 0201	R1402_RF	Y	B4_17
152S1688	1	3.5NH INDUCTOR - 0201	C1416_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	R1402_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1416_RF	Y	B3_13

B3/B4 TX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S0215	1	22PF CAPACITOR - 01005	L1417_RF	Y	B4_17
152S1569	1	3.9NH INDUCTOR - 01005	L1417_RF	Y	B3_13
131S0369	1	0.5PF CAPACITOR - 01005	L1408_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B4_17
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B4_17
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B3_13
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B3_13
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B3_13

B3/B4 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3255	1	B1/4 PAD - AVAGO	U1401_RF	Y	B4_17
353S3443	1	B1/3 PAD - AVAGO	U1401_RF	Y	B3_13
155S0590	1	B4 TX FIL	FL1402_RF	Y	B4_17
155S0712	1	B3 TX FIL	FL1402_RF	Y	B3_13

PAGE TITLE		
RADIO BOM OPTIONS		
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8			7			6			5			4			3			2			1		
D	NAND_VDDI	NAND_VDDI - @single_brd_lib.SINGLE_BRD	6D4	PP2V5_CAM0_AF_GROUND	PP2V5_CAM0_AF_GROUND - @single_brd_lib.SINGLE_BRD	12A3 20B5	SAGE_PANEL_IN<11>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_IN<11> -	17C3 18A8	UART1_CTS_L	UART1_CTS_L - @single_brd_lib.SINGLE_BRD	3B5 21C4											
	NEG_BOOST_OUT	NEG_BOOST_OUT - @single_brd_lib.SINGLE_BRD	19D3	PP2V8_CAM0_CONN	PP2V8_CAM0_CONN - @single_brd_lib.SINGLE_BRD	20C5	SAGE_PANEL_IN<12>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_IN<12> -	17C3 18A6	UART1_RTS_L	UART1_RTS_L - @single_brd_lib.SINGLE_BRD	3B5 21C4											
	NEG_SWITCH	NEG_SWITCH - @single_brd_lib.SINGLE_BRD	19D3	PP2V8_CAM1_CONN	PP2V8_CAM1_CONN - @single_brd_lib.SINGLE_BRD	11C4	SAGE_PANEL_IN<13>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_IN<13> -	17C3 18A6	UART1_RXD	UART1_RXD - @single_brd_lib.SINGLE_BRD	3B5 15B5 21C4											
	NTC_CAM_N	NTC_CAM_N - @single_brd_lib.SINGLE_BRD	12A6	PP2V8_CAM_AVDD	PP2V8_CAM_AVDD - @single_brd_lib.SINGLE_BRD	11C2 12B5 20B7	SAGE_PANEL_IN<14>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_IN<14> -	17C3 18A6	UART1_TXD	UART1_TXD - @single_brd_lib.SINGLE_BRD	3B5 15B5 21C4											
	NTC_CAM_P	NTC_CAM_P - @single_brd_lib.SINGLE_BRD	12A6 12B7	PP3V0_ACC	PP3V0_ACC - @single_brd_lib.SINGLE_BRD	12B4 15C4	SAGE_PANEL_VSTM_OUT<0>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<0> -	17C1 18A6 18A8	UART2_RXD	UART2_RXD - @single_brd_lib.SINGLE_BRD	3B5 15B5											
	NTC_FOREHEAD_N	NTC_FOREHEAD_N - @single_brd_lib.SINGLE_BRD	12A8	PP3V0_ALS	PP3V0_ALS - @single_brd_lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<1>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<1> -	17B1 18A8	UART2_TXD	UART2_TXD - @single_brd_lib.SINGLE_BRD	3B5 15B5											
	NTC_FOREHEAD_P	NTC_FOREHEAD_P - @single_brd_lib.SINGLE_BRD	12A7 12B7	PP3V0_COMP	PP3V0_COMP - @single_brd_lib.SINGLE_BRD	14A5 14A8 14B8	SAGE_PANEL_VSTM_OUT<2>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<2> -	17C1 18A8	UART3_CTS_L	UART3_CTS_L - @single_brd_lib.SINGLE_BRD	3B5 21B4											
	NTC_H5P_N	NTC_H5P_N - @single_brd_lib.SINGLE_BRD	12A5	PP3V0_IMU	PP3V0_IMU - @single_brd_lib.SINGLE_BRD	12B5 14A4 14B1	SAGE_PANEL_VSTM_OUT<3>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<3> -	17C1 18A8	UART3_RTS_L	UART3_RTS_L - @single_brd_lib.SINGLE_BRD	3B5 21B4											
	NTC_H5P_P	NTC_H5P_P - @single_brd_lib.SINGLE_BRD	12A5 12B7	PP3V0_IO	PP3V0_IO - @single_brd_lib.SINGLE_BRD	2D3 5B7 12B5	SAGE_PANEL_VSTM_OUT<4>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<4> -	17C1 18A8	UART3_RXD	UART3_RXD - @single_brd_lib.SINGLE_BRD	3A5 21B4											
	NTC_PA_N	NTC_PA_N - @single_brd_lib.SINGLE_BRD	12A4	PP3V0_NAND	PP3V0_NAND - @single_brd_lib.SINGLE_BRD	6D1 12B5	SAGE_PANEL_VSTM_OUT<5>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<5> -	17C1 18A8	UART4_RXD	UART4_RXD - @single_brd_lib.SINGLE_BRD	3A5 21B4											
C	NTC_PA_P	NTC_PA_P - @single_brd_lib.SINGLE_BRD	12A4 12B7	PP3V0_NAND_XW	PP3V0_NAND_XW - @single_brd_lib.SINGLE_BRD	6D3	SAGE_PANEL_VSTM_OUT<6>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<6> -	17C1 18A8	UART4_RXD	UART4_RXD - @single_brd_lib.SINGLE_BRD	3A5 21B4											
	OSC32I	OSC32I - @single_brd_lib.SINGLE_BRD	12B6	PP3V0_PROX	PP3V0_PROX - @single_brd_lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<7>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<7> -	17C1 18A8	UART6_RXD	UART6_RXD - @single_brd_lib.SINGLE_BRD	3A5 15B5											
	OSC32O	OSC32O - @single_brd_lib.SINGLE_BRD	12A6	PP3V0_PROX_ALS	PP3V0_PROX_ALS - @single_brd_lib.SINGLE_BRD	11B8 11C8 12B5	SAGE_PANEL_VSTM_OUT<8>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<8> -	17C1 18A8	UART6_TXD	UART6_TXD - @single_brd_lib.SINGLE_BRD	3A5 15B5											
	OVF_GATE	OVF_GATE - @single_brd_lib.SINGLE_BRD	16B7	PP3V0_PROX_IR	PP3V0_PROX_IR - @single_brd_lib.SINGLE_BRD	11C2 12B5	SAGE_PANEL_VSTM_OUT<9>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<9> -	17C1 18A8	USB_BRICKID	USB_BRICKID - @single_brd_lib.SINGLE_BRD	13C2 15B5											
	OVF_SW_EN_L	OVF_SW_EN_L - @single_brd_lib.SINGLE_BRD	15B4 16B8	PP3V0_USBMUX	PP3V0_USBMUX - @single_brd_lib.SINGLE_BRD	12B5 15C7	SAGE_PANEL_VSTM_OUT<10>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<10> -	17C1 18A8	USB_BRICKID_PMU	USB_BRICKID_PMU - @single_brd_lib.SINGLE_BRD	13C4 13C6											
	PBL_RUN_BB_HSIC1_RDY	PBL_RUN_BB_HSIC1_RDY - @single_brd_lib.RADIO_MLB(i594_page 19)	3A7 21D4	PP3V2_CODEC	PP3V2_CODEC - @single_brd_lib.SINGLE_BRD	10D3	SAGE_PANEL_VSTM_OUT<11>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<11> -	17B1 18A6	USB_CONN_SNUB	USB_CONN_SNUB - @single_brd_lib.SINGLE_BRD	16B5											
	PMU_ADC_IN7	PMU_ADC_IN7 - @single_brd_lib.SINGLE_BRD	13C3 13C6	PP3V3_VIB	PP3V3_VIB - @single_brd_lib.SINGLE_BRD	8C6	SAGE_PANEL_VSTM_OUT<12>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<12> -	17B1 18A6	USB_REXT	USB_REXT - @single_brd_lib.SINGLE_BRD	2B4											
	PMU_AMUX_AY	PMU_AMUX_AY - @single_brd_lib.SINGLE_BRD	13C6 13D5 22C8	PP5V0_TRISTAR	PP5V0_TRISTAR - @single_brd_lib.SINGLE_BRD	15C4	SAGE_PANEL_VSTM_OUT<13>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<13> -	17C1 18A6	USB_VBUS_DETECT	USB_VBUS_DETECT - @single_brd_lib.SINGLE_BRD	2B4 12C8											
	PMU_AMUX_AY_CTRL	PMU_AMUX_AY_CTRL - @single_brd_lib.SINGLE_BRD	3C5 13D7	PP5V0_USB_CONN	PP5V0_USB_CONN - @single_brd_lib.SINGLE_BRD	16C5 22D8	SAGE_PANEL_VSTM_OUT<14>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<14> -	17C1 18A6	VBST_OUTH_STACK	VBST_OUTH_STACK - @single_brd_lib.SINGLE_BRD	17B4											
	PMU_AMUX_AY_R	PMU_AMUX_AY_R - @single_brd_lib.SINGLE_BRD	13D6	PP5V0_USB_PROTECT	PP5V0_USB_PROTECT - @single_brd_lib.SINGLE_BRD	12C8 16B8	SAGE_PANEL_VSTM_OUT<15>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<15> -	17C1 18A6	VBST_OUTL_STACK	VBST_OUTL_STACK - @single_brd_lib.SINGLE_BRD	17A4											
B	PMU_AMUX_BY	PMU_AMUX_BY - @single_brd_lib.SINGLE_BRD	13B6 13D5 22C8	PP5V0_USB_RPROT	PP5V0_USB_RPROT - @single_brd_lib.SINGLE_BRD	15C2 16B8	SAGE_PANEL_VSTM_OUT<16>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<16> -	17C1 18A6	VCENTER	VCENTER - @single_brd_lib.SINGLE_BRD	12C7											
	PMU_AMUX_BY_CTRL	PMU_AMUX_BY_CTRL - @single_brd_lib.SINGLE_BRD	3B5 13D7	PP5V1_GRAPE_VDDH	PP5V1_GRAPE_VDDH - @single_brd_lib.SINGLE_BRD	13B3 17D7	SAGE_PANEL_VSTM_OUT<17>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<17> -	17C1 18A6	VDD_REF	VDD_REF - @single_brd_lib.SINGLE_BRD	13C5											
	PMU_AMUX_BY_R	PMU_AMUX_BY_R - @single_brd_lib.SINGLE_BRD	13D6	PP5V7_LCD_AVDDH	PP5V7_LCD_AVDDH - @single_brd_lib.SINGLE_BRD	13B3 18C1 19B2	SAGE_PANEL_VSTM_OUT<18>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<18> -	17C1 18A6	VDD_RTC	VDD_RTC - @single_brd_lib.SINGLE_BRD	13C5											
	PMU_DWI_CLK	PMU_DWI_CLK - @single_brd_lib.SINGLE_BRD	13B6	PP5V7_LCD_AVDDH_CONN	PP5V7_LCD_AVDDH_CONN - @single_brd_lib.SINGLE_BRD	18C4	SAGE_PANEL_VSTM_OUT<19>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<19> -	17C1 18A6	VHP_FLYC	VHP_FLYC - @single_brd_lib.SINGLE_BRD	10C4											
	PMU_DWI_DI	PMU_DWI_DI - @single_brd_lib.SINGLE_BRD	13B6	PP5V7_SAGE_AVDDH	PP5V7_SAGE_AVDDH - @single_brd_lib.SINGLE_BRD	13B1 17B5 17D4	SAGE_PANEL_VSTM_OUT<20>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<20> -	17B3	VHP_FLYN	VHP_FLYN - @single_brd_lib.SINGLE_BRD	10C4											
	PMU_DWI_DO	PMU_DWI_DO - @single_brd_lib.SINGLE_BRD	13B6	PPN_ZQ	PPN_ZQ - @single_brd_lib.SINGLE_BRD	6B3	SAGE_PANEL_VSTM_OUT<21>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<21> -	17B3	VIB	VIB - @single_brd_lib.SINGLE_BRD	8B5											
	PMU_IRQ_L	PMU_IRQ_L - @single_brd_lib.SINGLE_BRD	3B7 13B6	PP_BATT_VCC	PP_BATT_VCC - @single_brd_lib.SINGLE_BRD	8C7 12D8 14D7 19D7 21C5	SAGE_PANEL_VSTM_OUT<22>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<22> -	17C4 19B6	VIB_LOO_EN	VIB_LOO_EN - @single_brd_lib.SINGLE_BRD	8B5 8C7											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	21C7 21D4 22D8	SAGE_PANEL_VSTM_OUT<23>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<23> -	17B3	VIB_PWM	VIB_PWM - @single_brd_lib.SINGLE_BRD	3B5 8C7											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	26D1 26D8 27B8 28C8 34C5	SAGE_PANEL_VSTM_OUT<24>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<24> -	17B3	VIB_PWM_G	VIB_PWM_G - @single_brd_lib.SINGLE_BRD	8C7											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	35C5 36C5 36D8 38C5 39C5	SAGE_PANEL_VSTM_OUT<25>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<25> -	17B3	VIB_RETURN	VIB_RETURN - @single_brd_lib.SINGLE_BRD	8B5											
A	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	42D7 14D5	SAGE_PANEL_VSTM_OUT<26>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<26> -	17B3	VOL_DWN_L	VOL_DWN_L - @single_brd_lib.SINGLE_BRD	3B7 8B7 13C6											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	16C2 21A4	SAGE_PANEL_VSTM_OUT<27>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<27> -	17B3	VOL_DWN_L_CONN	VOL_DWN_L_CONN - @single_brd_lib.SINGLE_BRD	8B5											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	26B8 27A2 32C6 37C3 40D6	SAGE_PANEL_VSTM_OUT<28>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<28> -	17B3	VOL_UP_L	VOL_UP_L - @single_brd_lib.SINGLE_BRD	3B7 8B7 13C6											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	41D5	SAGE_PANEL_VSTM_OUT<29>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<29> -	17B3	VOL_UP_L_CONN	VOL_UP_L_CONN - @single_brd_lib.SINGLE_BRD	8B5											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	10D1 12C8 12D8 13B4 13C2	SAGE_PANEL_VSTM_OUT<30>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<30> -	17B3	VPUMP	VPUMP - @single_brd_lib.SINGLE_BRD	12D5											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	13C3 19D4	SAGE_PANEL_VSTM_OUT<31>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<31> -	17B3	VREF	VREF - @single_brd_lib.SINGLE_BRD	13C5											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	17C8	SAGE_PANEL_VSTM_OUT<32>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<32> -	17B3	VSW_CHG	VSW_CHG - @single_brd_lib.SINGLE_BRD	12C7											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	11C8 17B5	SAGE_PANEL_VSTM_OUT<33>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<33> -	17B3	WDOG	WDOG - @single_brd_lib.SINGLE_BRD	2C4 13A7											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<34>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<34> -	17B3	WIFI_REG_ON	WIFI_REG_ON - @single_brd_lib.SINGLE_BRD	13B7 21C4											
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_LD014_2P65	PP_LD014_2P65 - @single_brd_lib.SINGLE_BRD	17B1 17B7	SAGE_PANEL_VSTM_OUT<35>	@single_brd_lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<35> -	17B3	WIFI_REG_ON_R	WIFI_REG_ON_R - @single_brd_lib.SINGLE_BRD	13B6											

8			7			6			5			4			3			2			1			
D	Base nets and synonyms for single_brd_lib.RADIO_MLB(#single_brd_lib.single_brd(sch_1)):page19_i594@radio_mlb_1 ib.radio_mlb(sch_1))			Base Signal			Synonyms			Location([Zone][dir])														
	2G_VBATT_IN			2G_VBATT_IN -			36C4																	
	50_3G_TX_B1_T			#single_brd_lib.RADIO_MLB			38C8																	
	50_3G_TX_B2_T			#single_brd_lib.RADIO_MLB			39C8																	
	50_3G_TX_B5_T			#single_brd_lib.RADIO_MLB			34C8																	
	50_3G_TX_B8_T			#single_brd_lib.RADIO_MLB			34D7																	
	50_3G_TX_B13_PA_T			#single_brd_lib.RADIO_MLB			35C6																	
	50_3G_TX_B13_T			#single_brd_lib.RADIO_MLB			35C8																	
	50_ASM_ANT			#single_brd_lib.RADIO_MLB			37B2																	
	50_ASM_ANT_MCH			#single_brd_lib.RADIO_MLB			37B2																	
C	50_B2_DUPLX_RX			#single_brd_lib.RADIO_MLB			39C4																	
	50_B2_RX_BAL			#single_brd_lib.RADIO_MLB			39C3																	
	50_BAND1_TX_INT_OUT			#single_brd_lib.RADIO_MLB			38C6																	
	50_BAND1_TX_IN_IN			#single_brd_lib.RADIO_MLB			38C7																	
	50_BAND1_TX_PA_IN			#single_brd_lib.RADIO_MLB			38C6																	
	50_BAND2_TX_INT_IN			#single_brd_lib.RADIO_MLB			39C7																	
	50_BAND4_TX_IN			#single_brd_lib.RADIO_MLB			38B7																	
	50_BAND4_TX_INT_OUT			#single_brd_lib.RADIO_MLB			38B6																	
	50_BAND4_TX_PA_IN			#single_brd_lib.RADIO_MLB			38B6																	
	50_BAND5_TX_INT_IN			#single_brd_lib.RADIO_MLB			34C7																	
B	50_BAND5_TX_INT_OUT			#single_brd_lib.RADIO_MLB			34C6																	
	50_BAND5_TX_PA_IN			#single_brd_lib.RADIO_MLB			34C5																	
	50_BAND8_TX_INT_OUT			#single_brd_lib.RADIO_MLB			34D6																	
	50_BAND8_TX_PA_IN			#single_brd_lib.RADIO_MLB			34D5																	
	50_BAND13_DUPLX_ANT			#single_brd_lib.RADIO_MLB			35C2																	
	50_BAND13_DUPLX_TX			#single_brd_lib.RADIO_MLB			35C3																	
	50_BAND13_PA_MATCH			#single_brd_lib.RADIO_MLB			35C4																	
	50_BAND13_PA_OUT			#single_brd_lib.RADIO_MLB			35C4																	
	50_BAND13_TRX			#single_brd_lib.RADIO_MLB			35C1 37B6																	
	50_BAND13_TRX_MATCH			#single_brd_lib.RADIO_MLB			35C2																	
A	50_BAND13_TX_INT_IN			#single_brd_lib.RADIO_MLB			35C7																	
	50_BAND13_TX_INT_OUT			#single_brd_lib.RADIO_MLB			35C6																	
	50_BAND13_TX_PA_IN			#single_brd_lib.RADIO_MLB			35C5																	
	50_CM_TRAP_B5			#single_brd_lib.RADIO_MLB			32C3																	
	50_CPL_B1_B4_OUT			#single_brd_lib.RADIO_MLB			34C3 38C3																	
	50_CPL_B1_B4_TERM			#single_brd_lib.RADIO_MLB			38C4																	
	50_CPL_B5_B8_OUT			#single_brd_lib.RADIO_MLB			34C3 35B5																	
	50_CPL_B13_OUT			#single_brd_lib.RADIO_MLB			35B5 39B5																	
	50_CPL_PDET			#single_brd_lib.RADIO_MLB			31D8 39C3																	
	50_DIVERSITY_SWITCH_MATCH			#single_brd_lib.RADIO_MLB			40C6																	
B	50_DRX_ANT			#single_brd_lib.RADIO_MLB			37A2 40C7																	
	50_DRX_ASM_MCH			#single_brd_lib.RADIO_MLB			40C6																	
	50_DRX_B3_MATCH			#single_brd_lib.RADIO_MLB			37B6																	
	50_DRX_B3_OUT			#single_brd_lib.RADIO_MLB			37B6 40C2																	
	50_GPS_FILT_CONN			#single_brd_lib.RADIO_MLB			41C6																	
	50_GPS_FILT_IN			#single_brd_lib.RADIO_MLB			41C5																	
	50_GPS_LNA_OUT			#single_brd_lib.RADIO_MLB			41C8																	
	50_HSIC_BB_DATA			#single_brd_lib.SINGLE_BRD			2C6 21B4																	
	50_HSIC_BB_STROBE			#single_brd_lib.SINGLE_BRD			26B3 26D8 29B3																	
	50_HSIC1_STW			#single_brd_lib.SINGLE_BRD			2C6 21B4																	
B	50_HSIC_BB_STROBE			#single_brd_lib.SINGLE_BRD			26B3 26C8 29B3																	
	50_HSIC_CAL			#single_brd_lib.RADIO_MLB			29B3																	
	50_HSIC_WLAN_DATA			#single_brd_lib.SINGLE_BRD			2B6 21B4																	
	50_HSIC_WLAN_STROBE			#single_brd_lib.RADIO_MLB			26B8 42B7																	
	50_HSIC1_STW			#single_brd_lib.SINGLE_BRD			2B6 21B4																	
	50_HSIC_WLAN_STROBE			#single_brd_lib.SINGLE_BRD			26B8 42B7																	
	50_LOW_ANT_FEED			#single_brd_lib.RADIO_MLB			41A7																	
	50_LOW_ANT_MCH			#single_brd_lib.RADIO_MLB			41A7																	
	50_NTCH_FILT_OUT			#single_brd_lib.RADIO_MLB			41D7																	
	50_OHM_TERM			#single_brd_lib.RADIO_MLB			40C4																	
B	50_OHM_TERM_2			#single_brd_lib.RADIO_MLB			37B3																	
	50_PDET_IN			#single_brd_lib.RADIO_MLB			31C7																	
	50_PDET_PAD			#single_brd_lib.RADIO_MLB			31D7																	
	50_PRI_ANT			#single_brd_lib.RADIO_MLB			37B1 41A5																	
	50_RX_DCS			#single_brd_lib.RADIO_MLB			37C4																	
	50_RX_DCS_FIL			#single_brd_lib.RADIO_MLB			37C5																	
	50_TXRX_B1_ASM			#single_brd_lib.RADIO_MLB			37C4 38B3																	
	50_TXRX_B1_PAD_ANT			#single_brd_lib.RADIO_MLB			38B5																	
	50_TXRX_B1_PAD_MCH			#single_brd_lib.RADIO_MLB			38B5																	
	50_TXRX_B2_ASM			#single_brd_lib.RADIO_MLB			37B4 39C1																	
B	50_TXRX_B2_PAD_ANT			#single_brd_lib.RADIO_MLB			39C4																	
	50_TXRX_B2_PAD_MCH			#single_brd_lib.RADIO_MLB			39C3																	
	50_TXRX_B4_ASM			#single_brd_lib.RADIO_MLB			37C4 38B4																	
	50_TXRX_B4_PAD_ANT			#single_brd_lib.RADIO_MLB			38B5																	
	50_TXRX_B4_PAD_MCH			#single_brd_lib.RADIO_MLB			38B5																	
	50_TXRX_B5_ASM			#single_brd_lib.RADIO_MLB			34B7 37C4																	
	50_TXRX_B5_PAD_ANT			#single_brd_lib.RADIO_MLB			34B5																	
	50_TXRX_B5_PAD_MCH			#single_brd_lib.RADIO_MLB			34B6																	
	50_TXRX_B8_ASM			#single_brd_lib.RADIO_MLB			34B1 37C4																	
	50_TXRX_B8_PAD_ANT			#single_brd_lib.RADIO_MLB			34B3																	
B	50_TXRX_B8_PAD_MCH			#single_brd_lib.RADIO_MLB			34B2																	
	50_TXRX_B13_ASM			#single_brd_lib.RADIO_MLB			37B4																	
	50_TX_3G_B8_FILT			#single_brd_lib.RADIO_MLB			34D7																	
	50_TX_B2			#single_brd_lib.RADIO_MLB			39C6																	
	50_TX_B4_MCH			#single_brd_lib.RADIO_MLB			38B8																	
	50_TX_G_HB_ASM			#single_brd_lib.RADIO_MLB			36B2 37B4																	
	50_TX_G_HB_MCH			#single_brd_lib.RADIO_MLB			36C7																	
	50_TX_G_HB_PAIN			#single_brd_lib.RADIO_MLB			36C6																	
	50_TX_G_HB_PAMCH			#single_brd_lib.RADIO_MLB			36B3																	
	50_TX_G_HB_PAOUT			#single_brd_lib.RADIO_MLB			36B4																	
B	50_TX_G_LB_ASM			#single_brd_lib.RADIO_MLB			36B2 37B4																	
	50_TX_G_LB_MCH			#single_brd_lib.RADIO_MLB			36B7																	
	50_TX_G_LB_PAIN			#single_brd_lib.RADIO_MLB			36B6																	
	50_TX_G_LB_PAMCH			#single_brd_lib.RADIO_MLB			36B3																	
	50_TX_G_LB_PAOUT			#single_brd_lib.RADIO_MLB			36B4																	
	50_TX_PCS_1			#single_brd_lib.RADIO_MLB			39C5																	
	50_TX_PCS_2			#single_brd_lib.RADIO_MLB			39C5																	
	50_UPPER_ANT_FEED			#single_brd_lib.RADIO_MLB			41D8																	
	50_UPPER_MCH_0			#single_brd_lib.RADIO_MLB			41D7																	
	50_UPPER_MCH_1			#single_brd_lib.RADIO_MLB			41D6																	
B	50_UPPER_MCH_2			#single_brd_lib.RADIO_MLB			41D4																	
	50_UP_ANT_TEST			#single_brd_lib.RADIO_MLB			37A2 41C1																	
	50_UP_ANT_TEST_COAX			#single_brd_lib.RADIO_MLB			41C3																	
	50_WIFI_ANT_FD			#single_brd_lib.RADIO_MLB			42D5																	
	50_WIFI_ANT_FD_1			#single_brd_lib.RADIO_MLB			42D5																	
	50_WIFI_ANT_FD_2			#single_brd_lib.RADIO_MLB			42D4																	
	50_WLAN_A			#single_brd_lib.RADIO_MLB			42C4																	
	50_WLAN_A_DIPLX			#single_brd_lib.RADIO_MLB			42C2																	
	50_WLAN_G			#single_brd_lib.RADIO_MLB			42C4																	
	50_WLAN_G_1			#single_brd_lib.RADIO_MLB			42C2																	
B	50_XCVR_2G_PA_HB_TX			#single_brd_lib.RADIO_MLB			31C7 36C8																	
	50_XCVR_2G_PA_LB_TX			#single_brd_lib.RADIO_MLB			31C7 36B8																	
	50_XCVR_3G_B1_TX			#single_brd_lib.RADIO_MLB			31C7 38C8																	
	50_XCVR_3G_B2_TX			#single_brd_lib.RADIO_MLB			31C7 39C8																	
	50_XCVR_3G_B4_TX			#single_brd_lib.RADIO_MLB			31C7 38B8																	
	50_XCVR_3G_B5_TX			#single_brd_lib.RADIO_MLB			31C7 34C8																	
	50_XCVR_3G_B8_TX			#single_brd_lib.RADIO_MLB			31C7 34D8																	
	50_XCVR_3G_B13_TX			#single_brd_lib.RADIO_MLB			31C7 35C8																	
	90_BB_USB_D_N			#single_brd_lib.SINGLE_BRD			15B5 21C4																	
	90_BB_USB_D_P			#single_brd_lib.SINGLE_BRD			26C3 26C8 29A5																	
B	100_B4_DUPLX_N			#single_brd_lib.RADIO_MLB			38B3																	
	100_B4_DUPLX_P			#single_brd_lib.RADIO_MLB			38B3																	
	100_B5_B8_RX_MTCH_N			#single_brd_lib.RADIO_MLB			32C4																	
	100_B5_B8_RX_MTCH_P			#single_brd_lib.RADIO_MLB			32B4																	
	100_BAND1_DUPLX_MATC_H_RX_N			#single_brd_lib.RADIO_MLB			38C2																	
	100_BAND1_DUPLX_MATC_H_RX_P			#single_brd_lib.RADIO_MLB			38C2																	
	100_BAND1_DUPLX_RX_N			#single_brd_lib.RADIO_MLB			38C3																	
	100_BAND1_DUPLX_RX_P			#single_brd_lib.RADIO_MLB			38C3																	
	100_BAND1_RX_N			#single_brd_lib.RADIO_MLB			31B7 38C1																	
	100_BAND1_RX_P			#single_brd_lib.RADIO_MLB			31B7 38C1																	
B	100_BAND2_RX_N			#single_brd_lib.RADIO_MLB			31B7 39B1																	
	100_BAND2_RX_P			#single_brd_lib.RADIO_MLB			31B7 39C1																	
	100_BAND4_DUPLX_MATC_H1_RX_N			#single_brd_lib.RADIO_MLB			38B3																	
	100_BAND4_DUPLX_MATC_H1_RX_P			#single_brd_lib.RADIO_MLB			38B2																	
	100_BAND4_DUPLX_MATC_H_RX_N			#single_brd_lib.RADIO_MLB			38B2																	
	100_BAND4_DUPLX_MATC_H_RX_P			#single_brd_lib.RADIO_MLB			38B4																	
	100_BAND4_DUPLX_RX_N			#single_brd_lib.RADIO_MLB			31C7 38B1																	
	100_BAND4_RX_N			#single_brd_lib.RADIO_MLB			31C7 38B1																	
	100_BAND5_BAND8_RX_N			#single_brd_lib.RADIO_MLB			31C7 32C3																	
	100_BAND5_BAND8_RX_P			#single_brd_lib.RADIO_MLB			31C7 32B3																	
B	100_BAND5_DUPLX_RX_N			#single_brd_lib.RADIO_MLB			34A5																	
	100_BAND5_DUPLX_RX_P			#single_brd_lib.RADIO_MLB			34A5																	
	100_BAND5_RX_N			#single_brd_lib.RADIO_MLB			32B6 34A4																	
	100_BAND5_RX_P			#single_brd																				

[illegible]