

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ECN	DESCRIPTION OF REVISION	CK APPD	DATE
11	0001447874	ENGINEERING RELEASED		2012-05-02

N41 SINGLE BRD EVT3

Mon Apr 30 16:28:35 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

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	?
825-6383	1	LABEL FOR N41 639-3259	EEEE_DWJG	Y	EEEE_16G
825-6383	1	LABEL FOR N41 639-3420	EEEE_DY6Q	Y	EEEE_32G
825-6383	1	LABEL FOR N41 639-3421	EEEE_DY6R	Y	EEEE_64G
825-6383	1	LABEL FOR N42 639-2456	EEEE_DNVD	Y	EEEE_16G_N42
825-6383	1	LABEL FOR N41 639-3858	EEEE_F322	Y	EEEE_32G_N42
825-6383	1	LABEL FOR N41 639-3859	EEEE_F321	Y	EEEE_64G_N42

N41 = BAND 17 COMP
 N42 = BAND 13 COMP

NAND OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0871	1	NAND, 20NM, 16GX8, MLC, PPN1.5	U4	?	NAND_16G
335S0872	1	NAND, 20NM, 32GX8, MLC, PPN1.5	U4	?	NAND_32G
335S0873	1	NAND, 20NM, 64GX8, MLC, PPN1.5	U4	?	NAND_64G

RADIO_MLB TDMA CAP OPTION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S0711	3	10UF 0402 6.3V RANDOM	C235_RF, C236_RF, C237_RF	Y	?
138S0711	2	10UF 0402 6.3V RANDOM	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
152S1604	152S1518	?	L16	TDK 2.2UH IND ALT
152S1602	152S1518	?	L16	CYNTEC 2.2UH IND ALT
152S1602	152S1604	?	L19	CYNTEC 2.2UH IND ALT
311S0591	311S0273	?	?	74LVCI932 OR GATE ALT
311S0548	311S0398	?	?	74AUP1008 AND GATE ALT
311S0560	311S0515	?	?	74LV2G07 BUFFER ALT
339S0177	339S0176	?	?	H5P ALT
339S0178	339S0176	?	?	H5P ALT
155S0773	155S0453	?	?	TAIYO ALT FERRITE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S0878	335S0871	NAND_16G	U4	TOSHIBA 16G
335S0881	335S0871	NAND_16G	U4	SAMSUNG 16G
335S0900	335S0871	NAND_16G	U4	SANDISK 16G
335S0879	335S0872	NAND_32G	U4	TOSHIBA 32G
335S0882	335S0872	NAND_32G	U4	SAMSUNG 32G
335S0901	335S0872	NAND_32G	U4	SANDISK 32G
335S0880	335S0873	NAND_64G	U4	TOSHIBA 64G
335S0883	335S0873	NAND_64G	U4	SAMSUNG 64G
335S0902	335S0873	NAND_64G	U4	SANDISK 64G

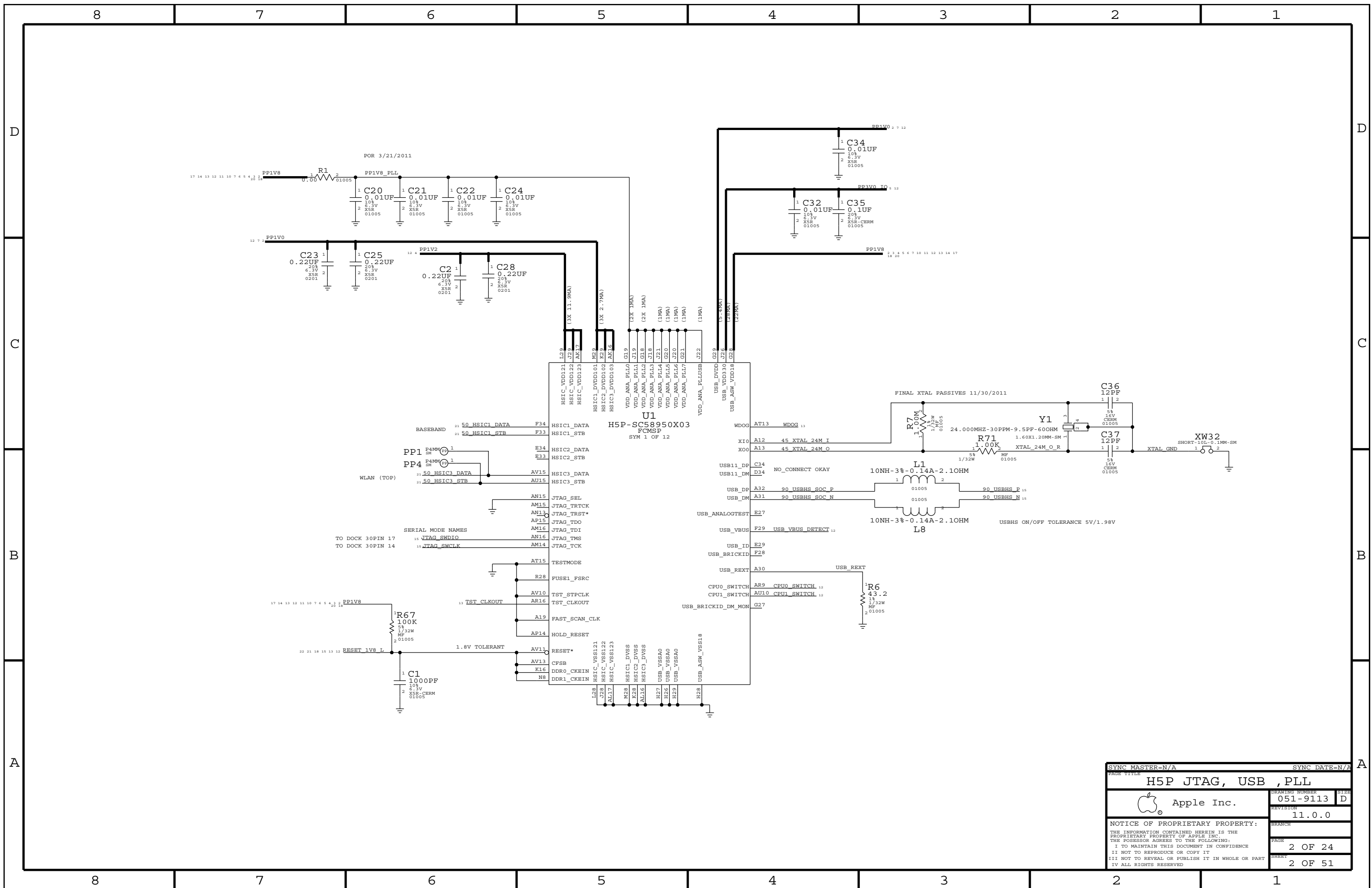
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
607-9983	607-9979	?	CPU_IND	ALT CPU CYNTEC SUBBOM
607-9984	607-9980	?	SOC_IND	ALT SOC CYNTEC SUBBOM

SCH 051-9113
 BRD 820-3141
 MCO 056-4519
 BOM 639-3259 (16GB) BTR N41
 BOM 639-3420 (32GB) BST N41
 BOM 639-3421 (64GB) ULT N41

 BOM 639-2456 (16GB) BTR N42
 BOM 639-3858 (32GB) BST N42
 BOM 639-3839 (64GB) ULT N42

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

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H5P JTAG, USB, PLL			
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BOARD_REV[3:0]={EHCI_PORT3,EHCI_PORT_PWR2,EHCI_PORT_PWR1,EHCI_PORT_PWR0}

1111 DEV3
1110 PROTO 0, DEV4 & DEV5
1101 PROTO 1
1100 PROTO 2A
1010 PROTO 2B TRISTAR / PROTO_2C LM3534
1005 PROTO 3, DEV7
1000 EVT1
0111 EVT3, DOE16/11/15/20/21 <--- SELECTED

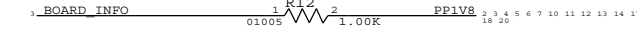
BOARD_ID[3:0]={GPIO16,SPIO0_MISO,SPIO0_MOSI,SPIO0_SCLK}

0000 N41 MLB <--- SELECTED
0001 N41 DEV
0010 N42 MLB <--- SELECTED W/ B3_13 BOM OPTION
0011 N42 DEV

BOOT_CONFIG[3:0]={GPIO29_CONFIG3,GPIO28_CONFIG2,GPIO25_CONFIG1,GPIO18_CONFIG0}

0000 SPIO
0001 SPI3
0010 SPIO W/TEST
0011 SPI3 W/TEST
0100 FMIO 2CS
0101 FMIO 4CS
0110 FMIO 4CS W/TEST
0111 RESERVED
1000 FMIO 2 CS
1001 FMIO 4 CS
1010 FMIO 4CS W/TEST
1100 FMIO/1 2/2 CS <--- SELECTED AT EVT3
1101 FMIO/1 4/4 CS
1110 FMIO/1 4/4 CS W/TEST
1111 RESERVED

COMMON PULL UP FOR BOARD_REV, BOARD_ID AND BOOT_CONFIG PINS



R12 MUST WIN OVER 6X INTERNAL PULL-DOWNS THAT ARE ~100K

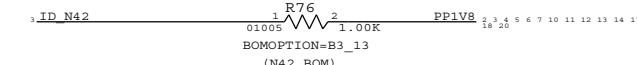
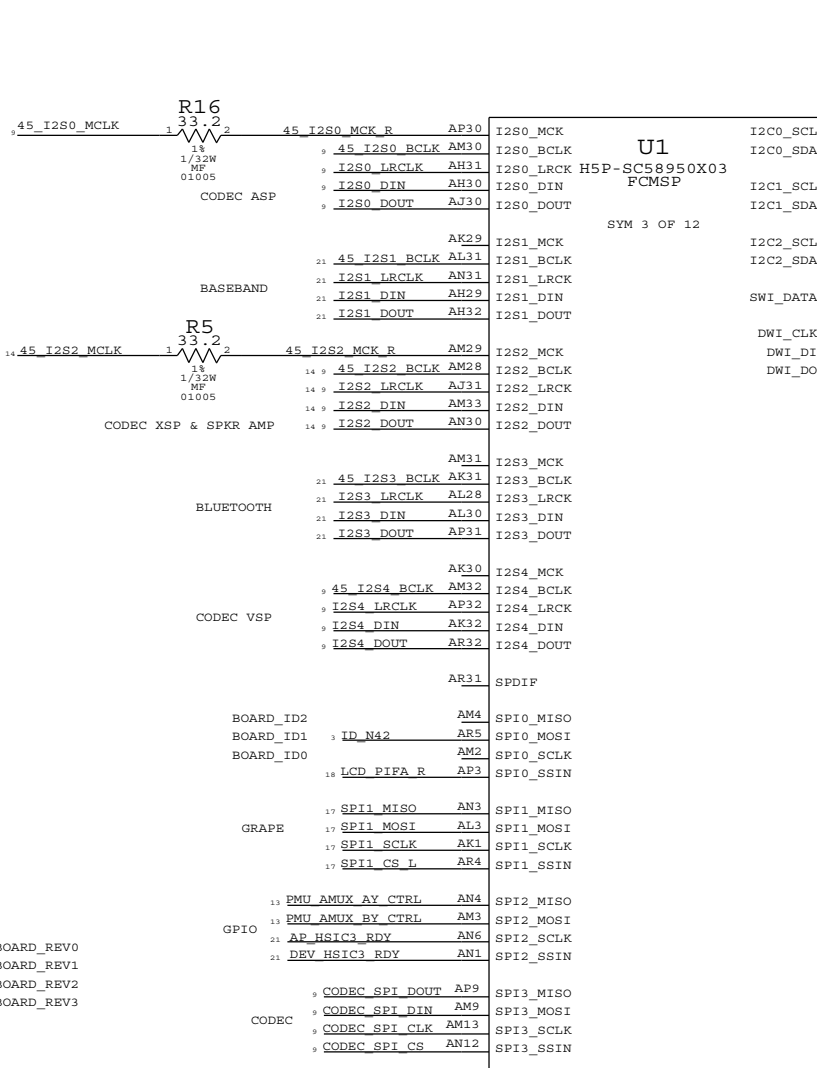
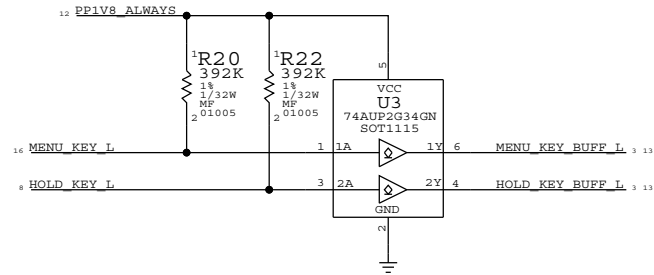


Table mapping GPIO pins to various board functions like MENU_KEY_BUFF_L, HOLD_KEY_BUFF_L, VOL_UP_L, etc.

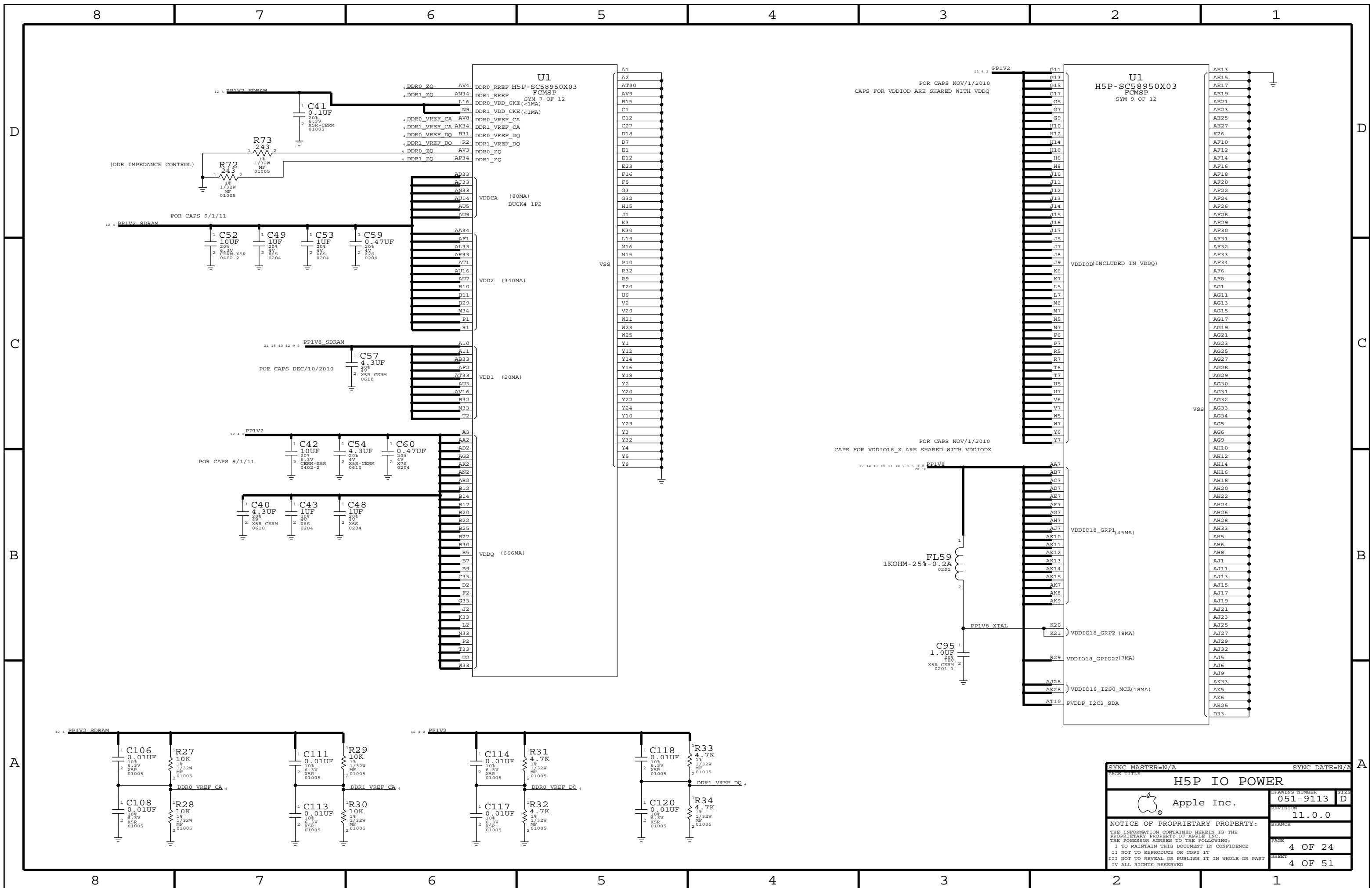
Table mapping U1 (H5P-SC58950X03) pins to various board functions like BOARD_REV0, BOARD_REV1, BOARD_REV2, BOARD_REV3, UART0_RXD, etc.



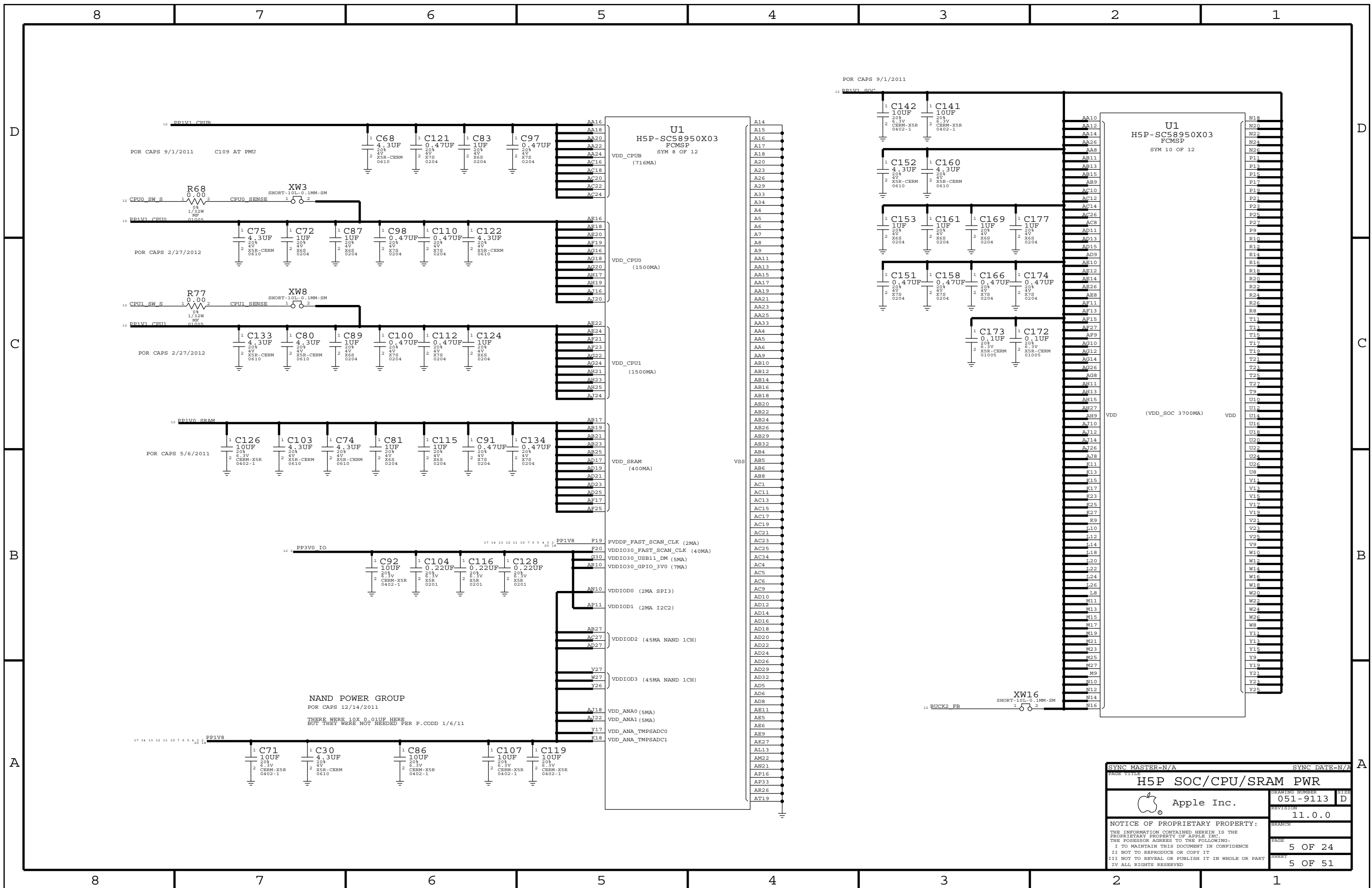
MENU & POWER / HOLD KEY



Metadata box containing drawing title 'H5P GPIO & CONTROL', Apple Inc. logo, drawing number '051-9113', revision '11.0.0', and a notice of proprietary property.



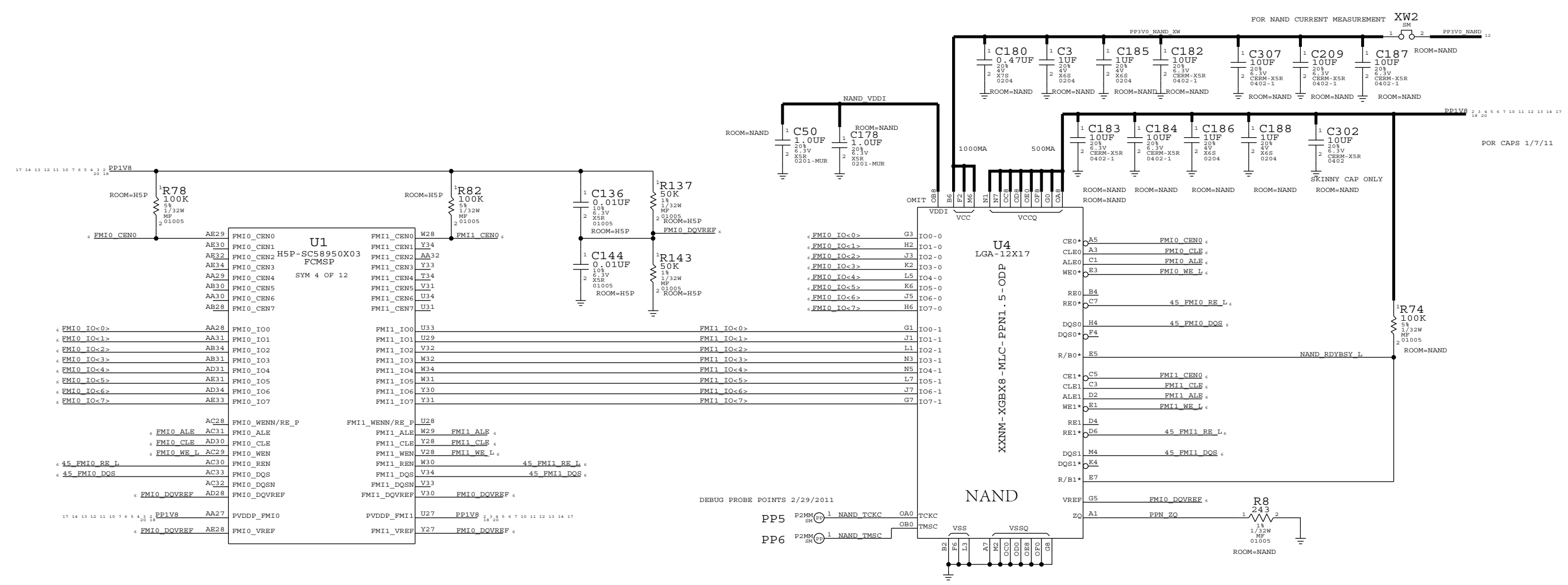
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H5P SOC/CPU/SRAM PWR			
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NAND

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

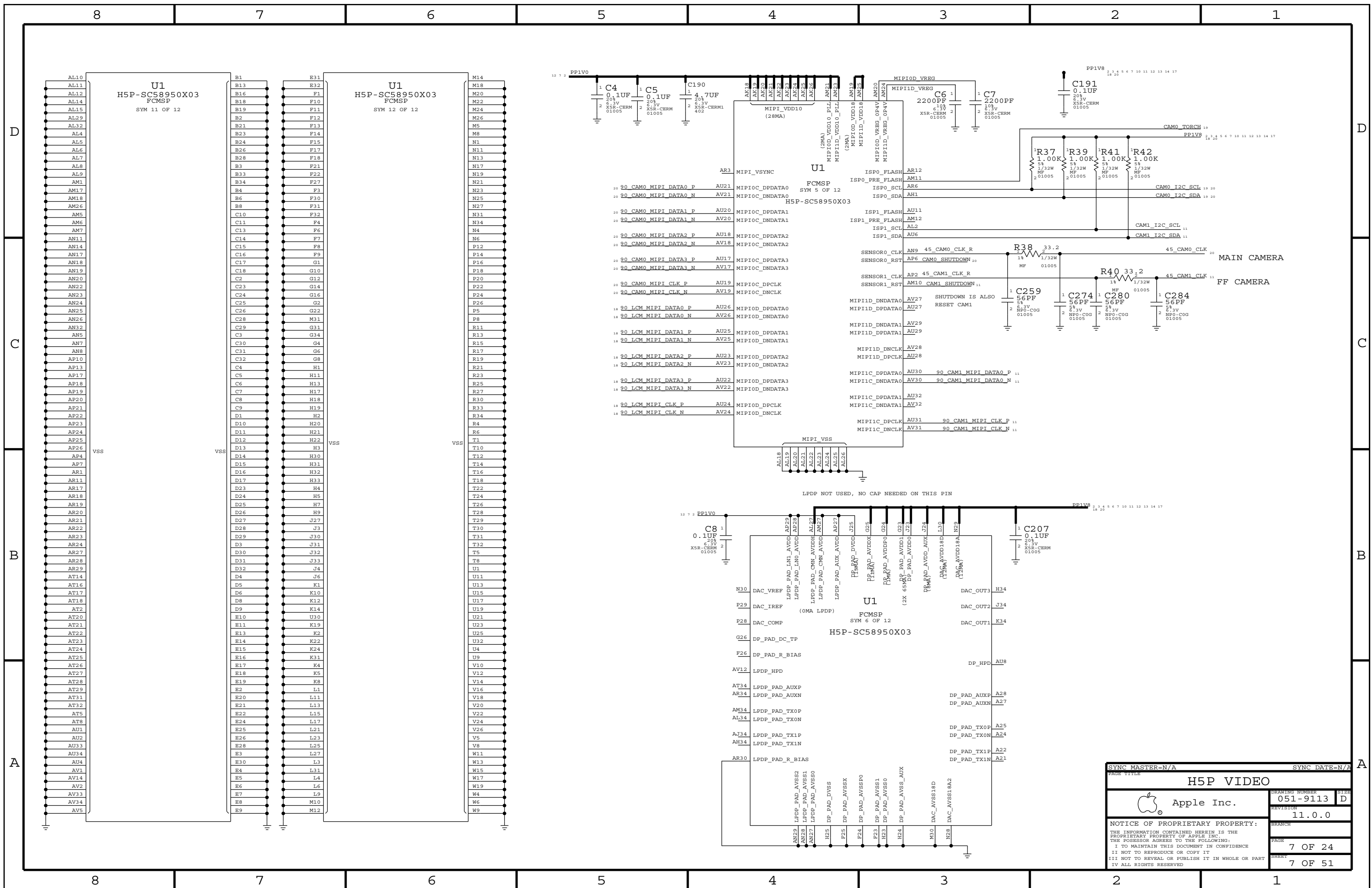


DEBUG PROBE POINTS 2/29/2011

NOTE: NAND PADS SHOULD BE SHIELDED FROM TRACES WITH A GROUND PLANE

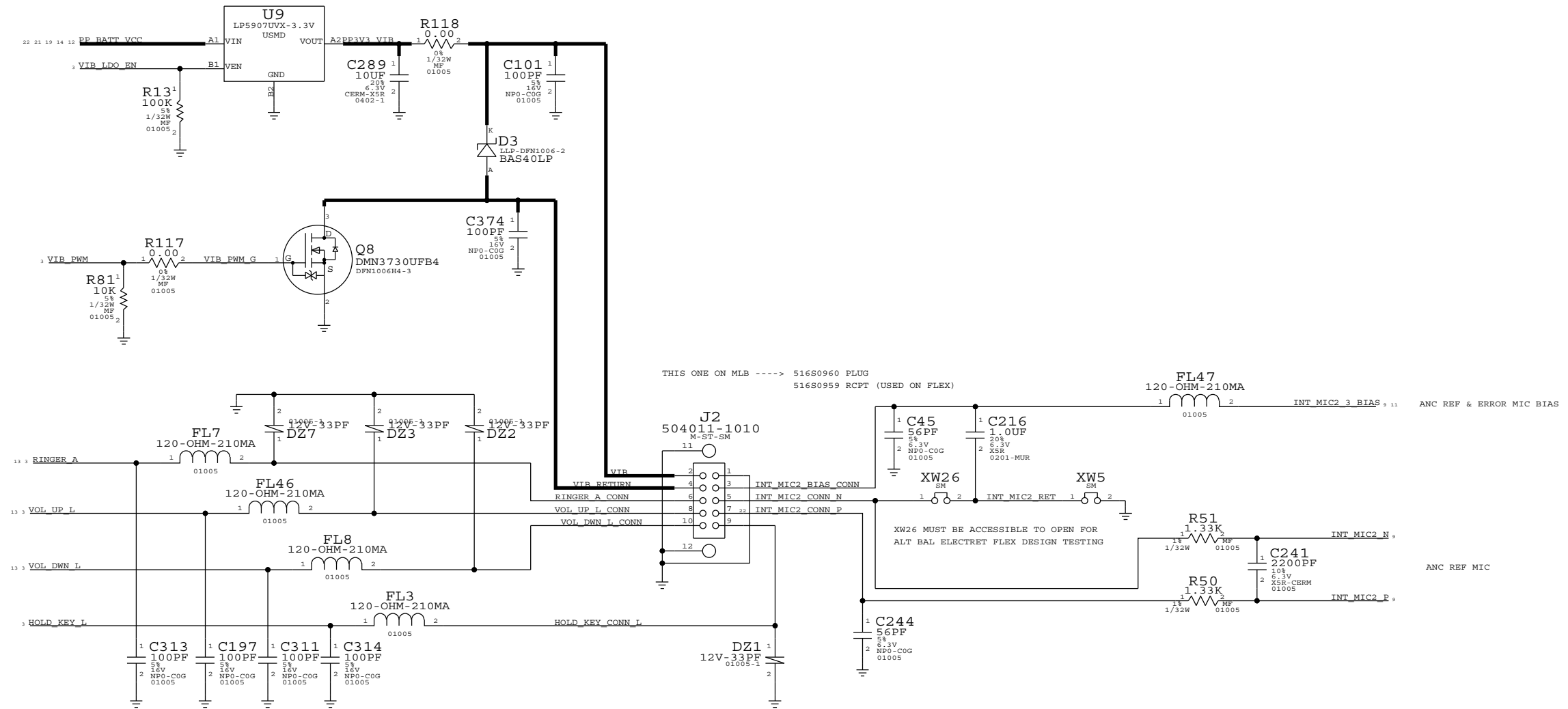
- PP2 P4MM SH 1 FMI0_IO<0>
- PP3 P4MM SH 1 45_FMI0_RE_L
- PP10 P4MM SH 1 45_FMI0_DQS

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H5P W/ NAND			
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SHARES INPUT CAPS WITH STROBE DRIVER

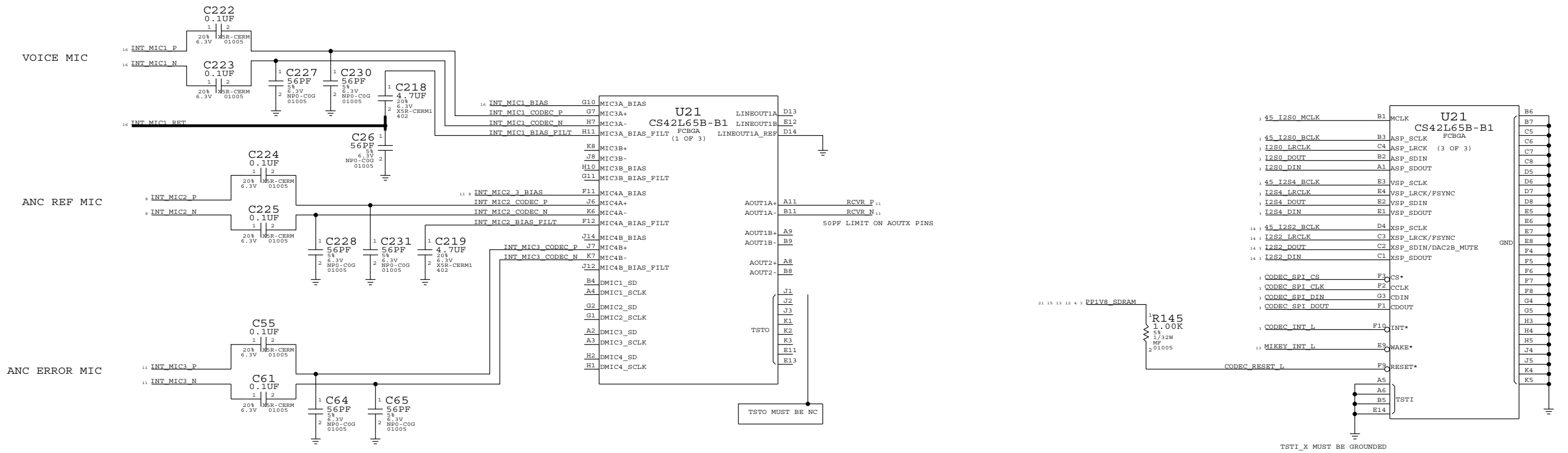


THIS ONE ON MLB ----> 516S0960 PLUG
516S0959 RCPT (USED ON FLEX)

XW26 MUST BE ACCESSIBLE TO OPEN FOR
ALT BAL ELECTRET FLEX DESIGN TESTING

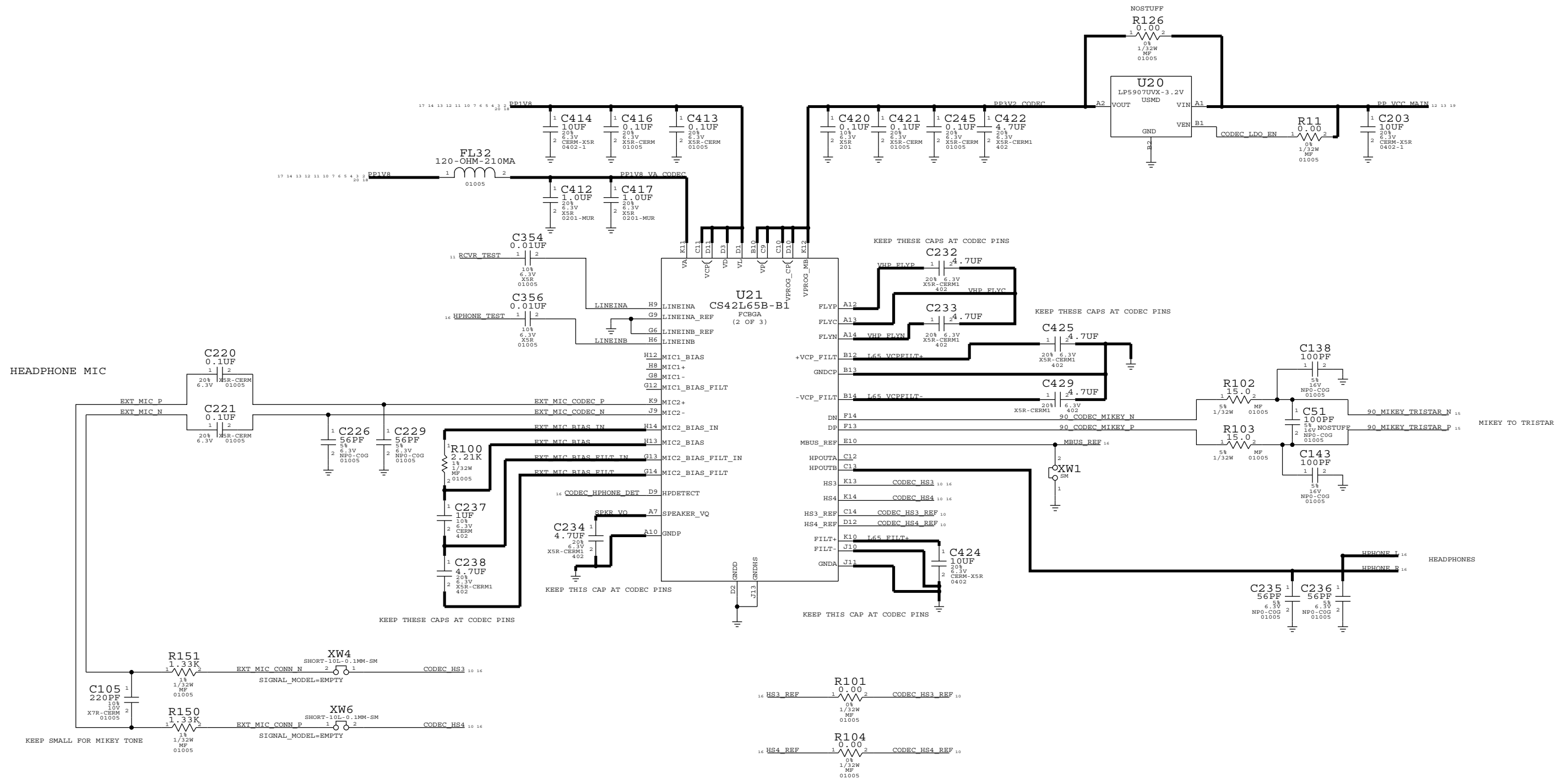
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BUTTON CONNECTOR			
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CS42L65 AUDIO CODEC

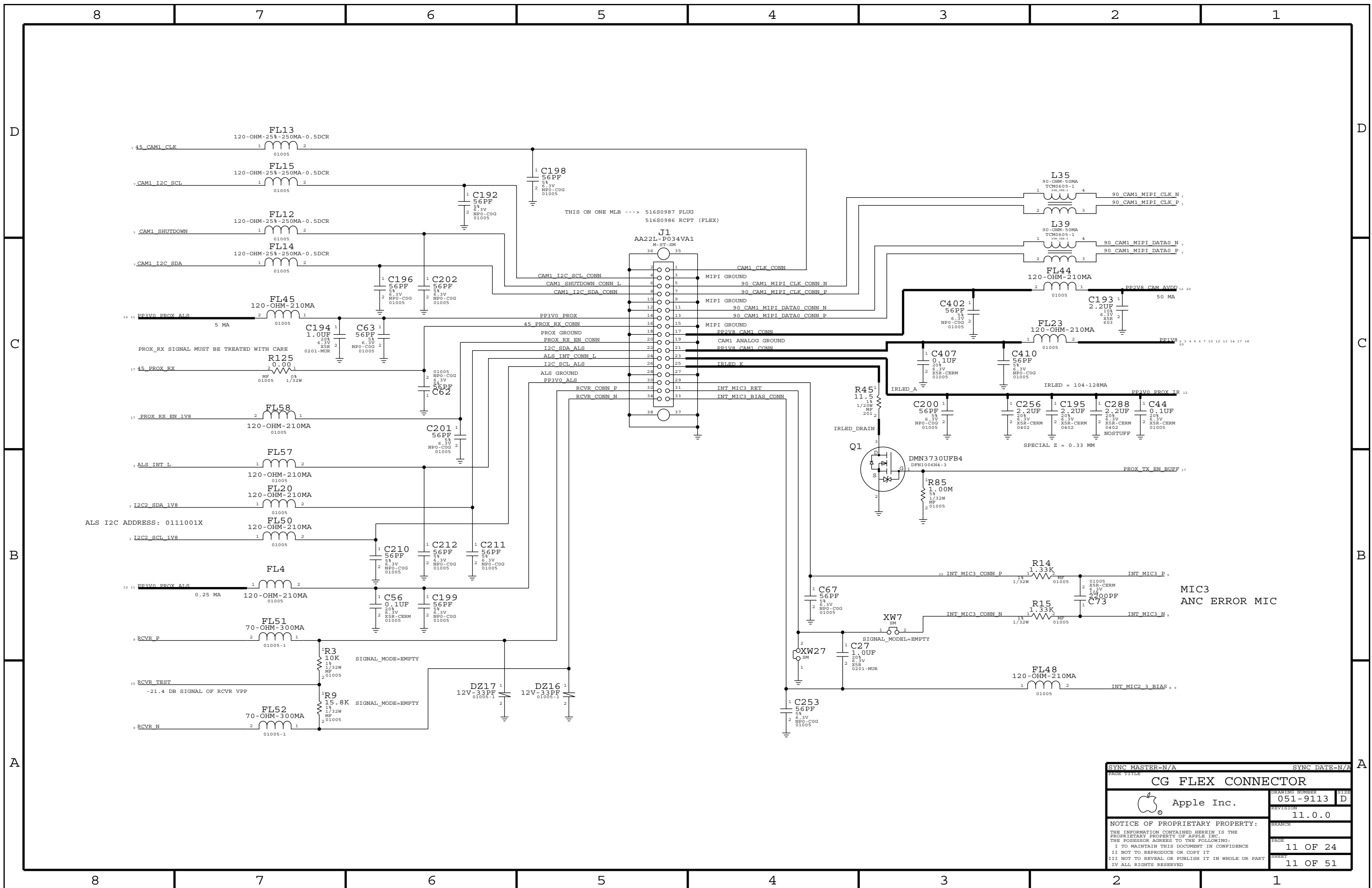


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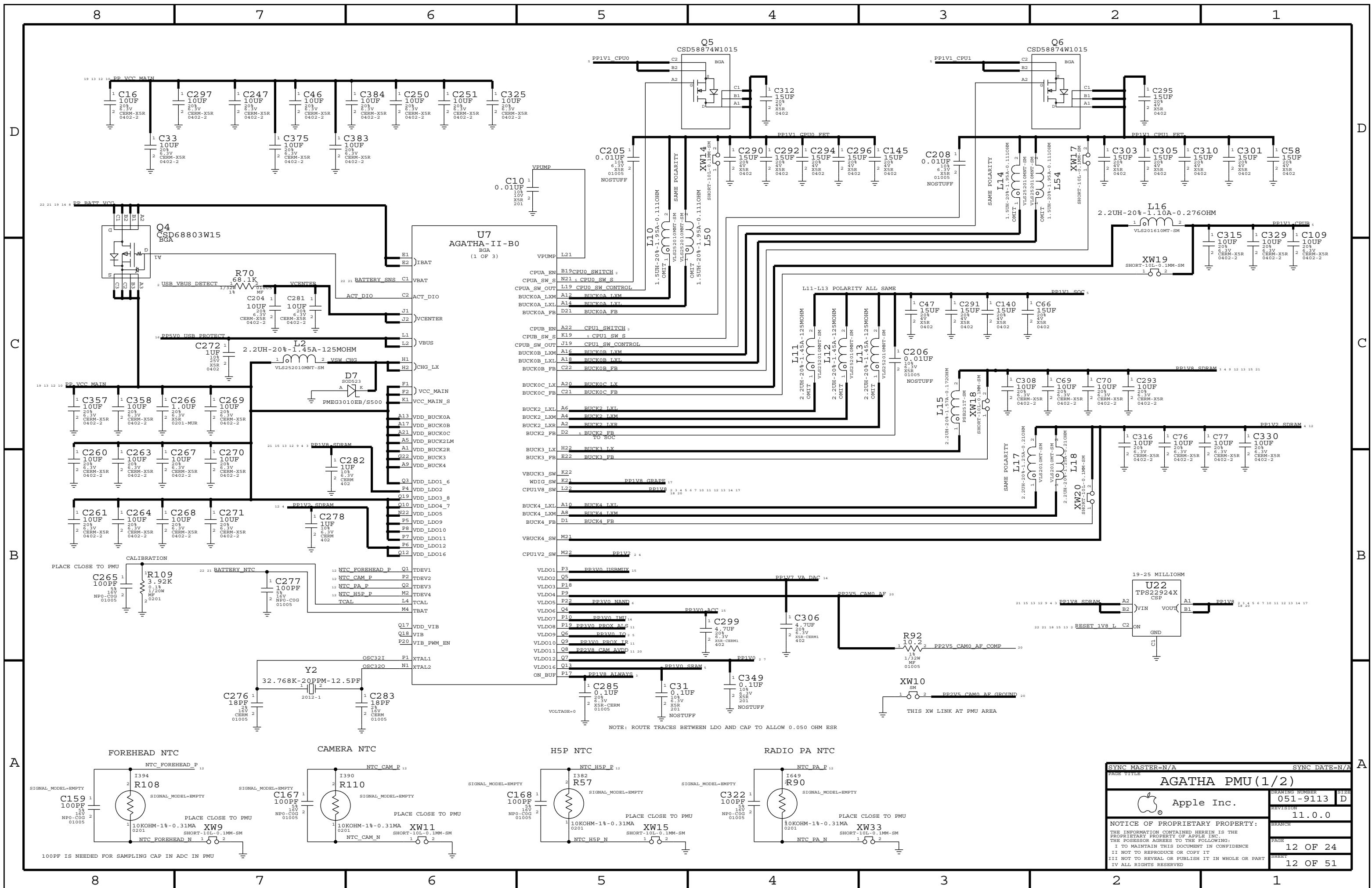
CS42L65 AUDIO CODEC



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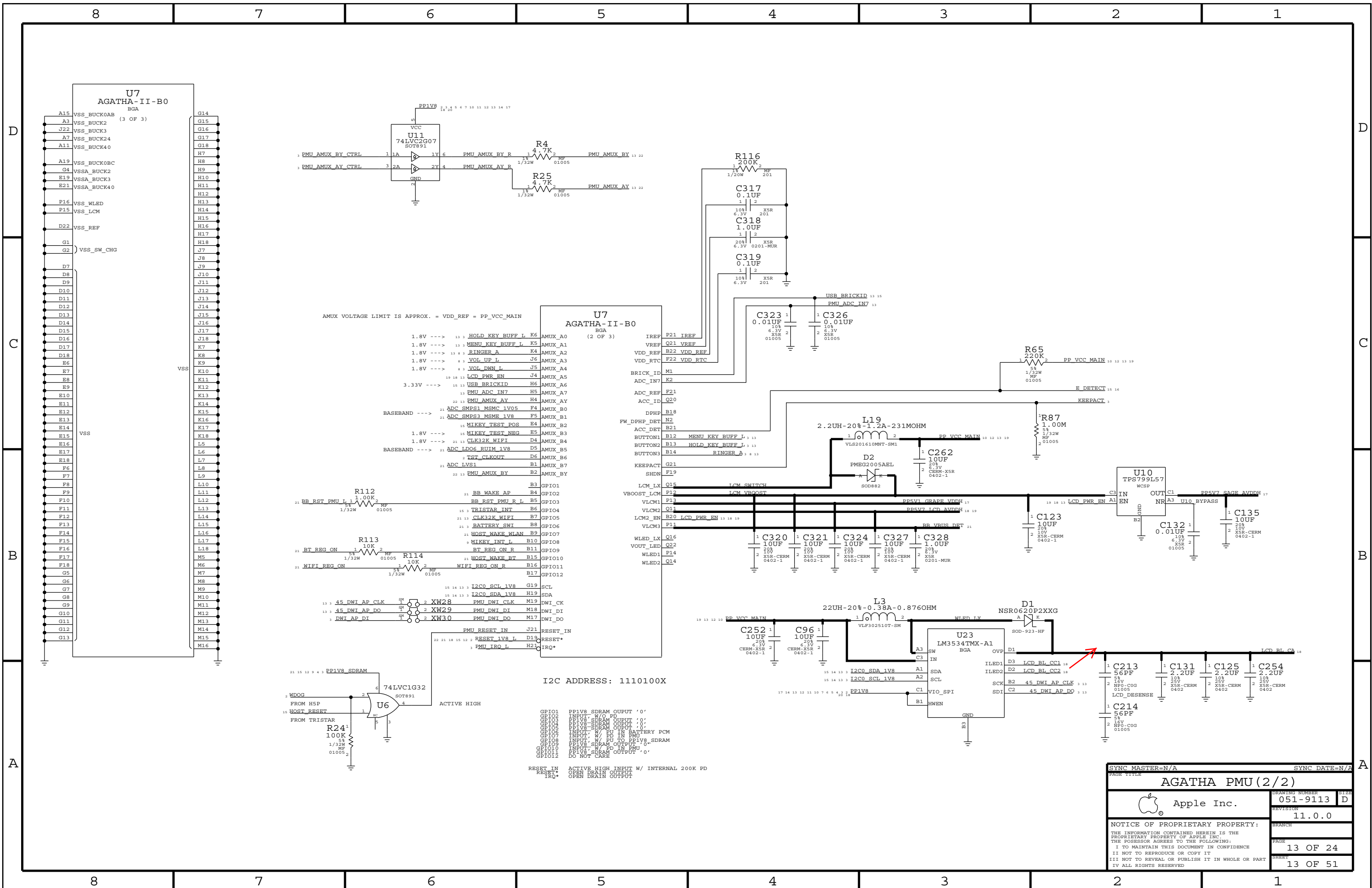
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NOTE: ROUTE TRACES BETWEEN LDO AND CAP TO ALLOW 0.050 OHM ESR

THIS XW LINK AT PMU AREA

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AGATHA PMU (1/2)			
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AGATHA PMU (2/2)

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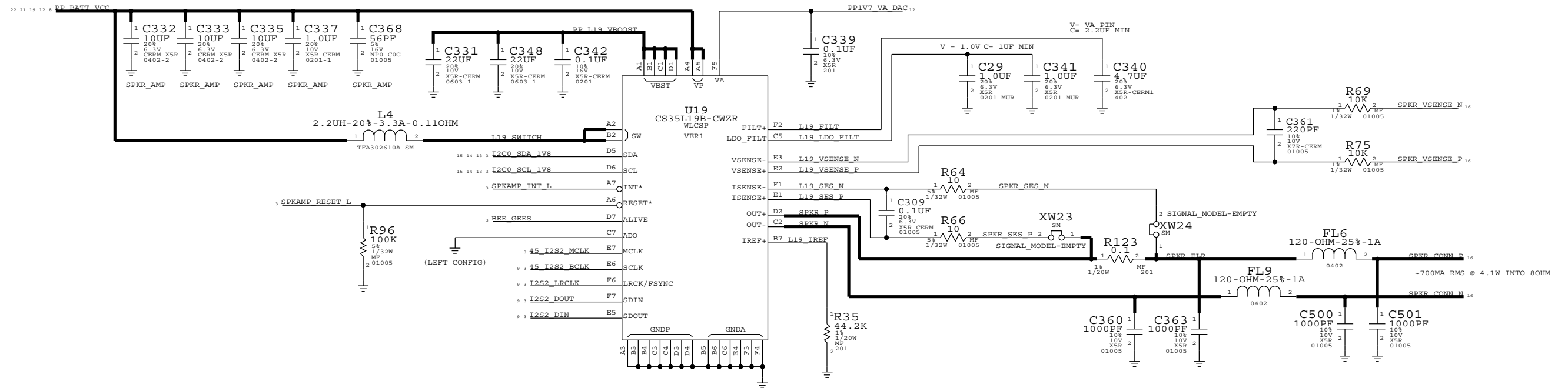
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SPEAKER AMP

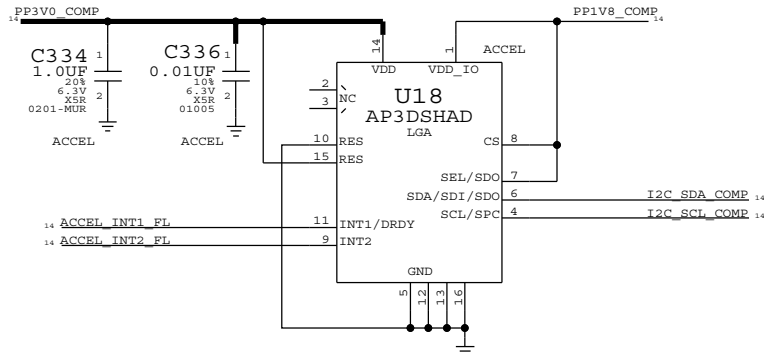
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THESE PARTS OUTSIDE OF SHIELD

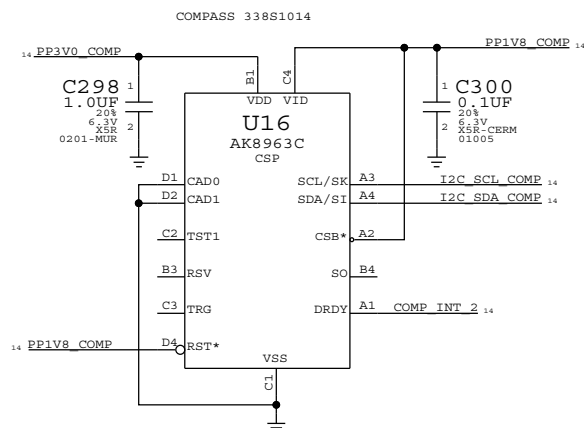
ACCELEROMETER

I2C ADDRESS: 0011101X



COMPASS2

I2C ADDR: 0001100X



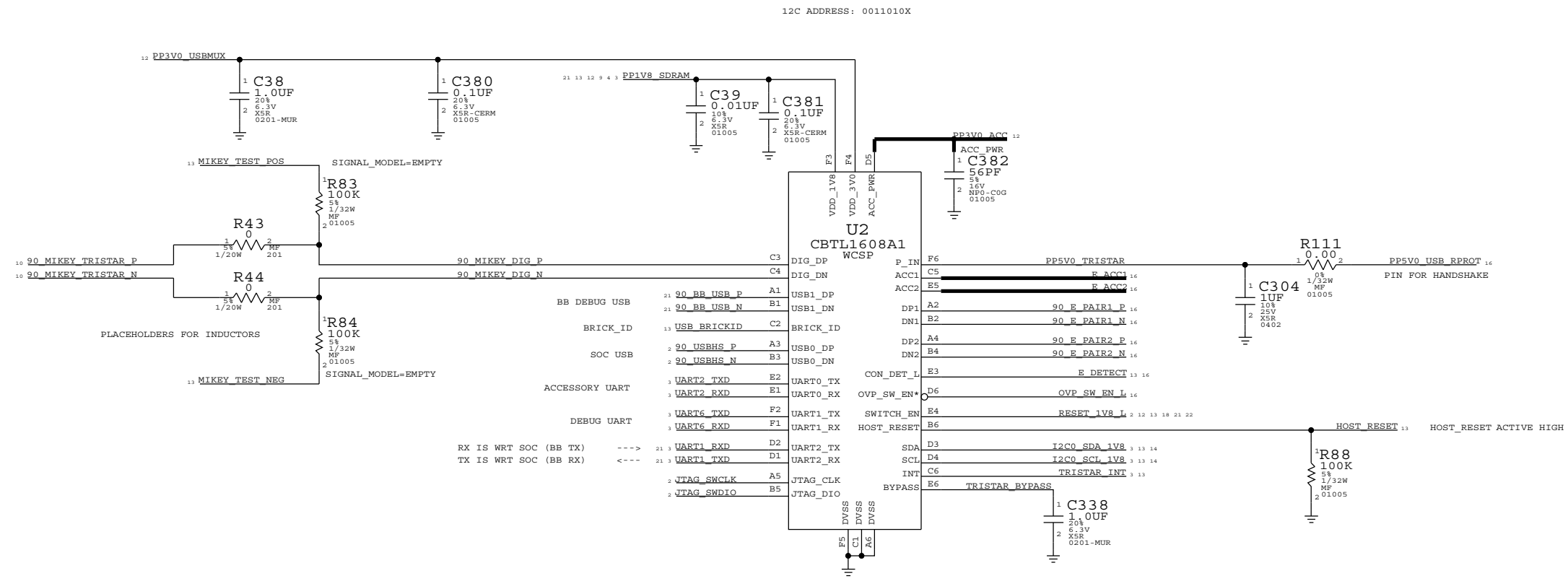
GYRO 20KHZ

I2C ADDRESS: 1101010X

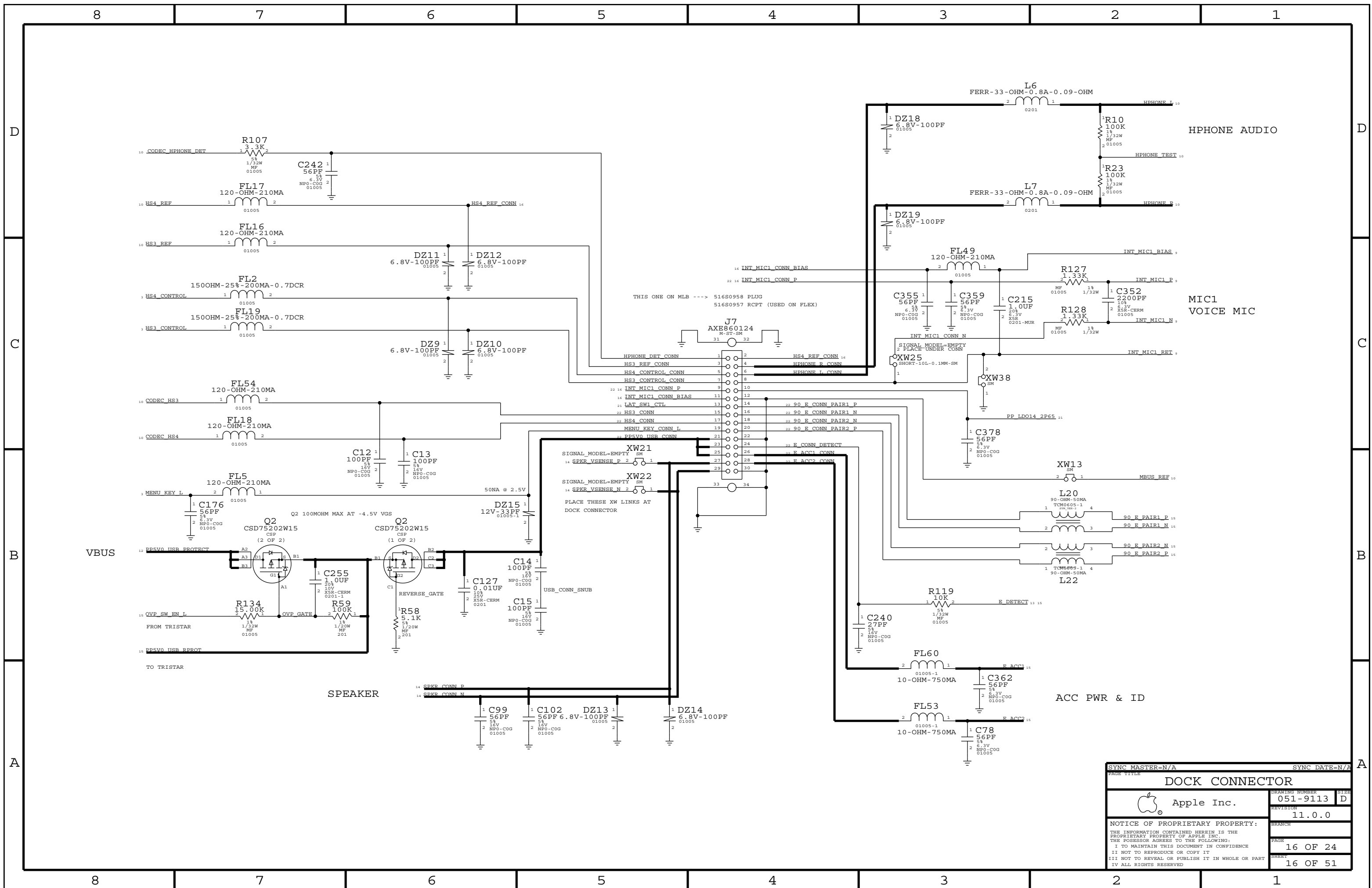


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TRISTAR



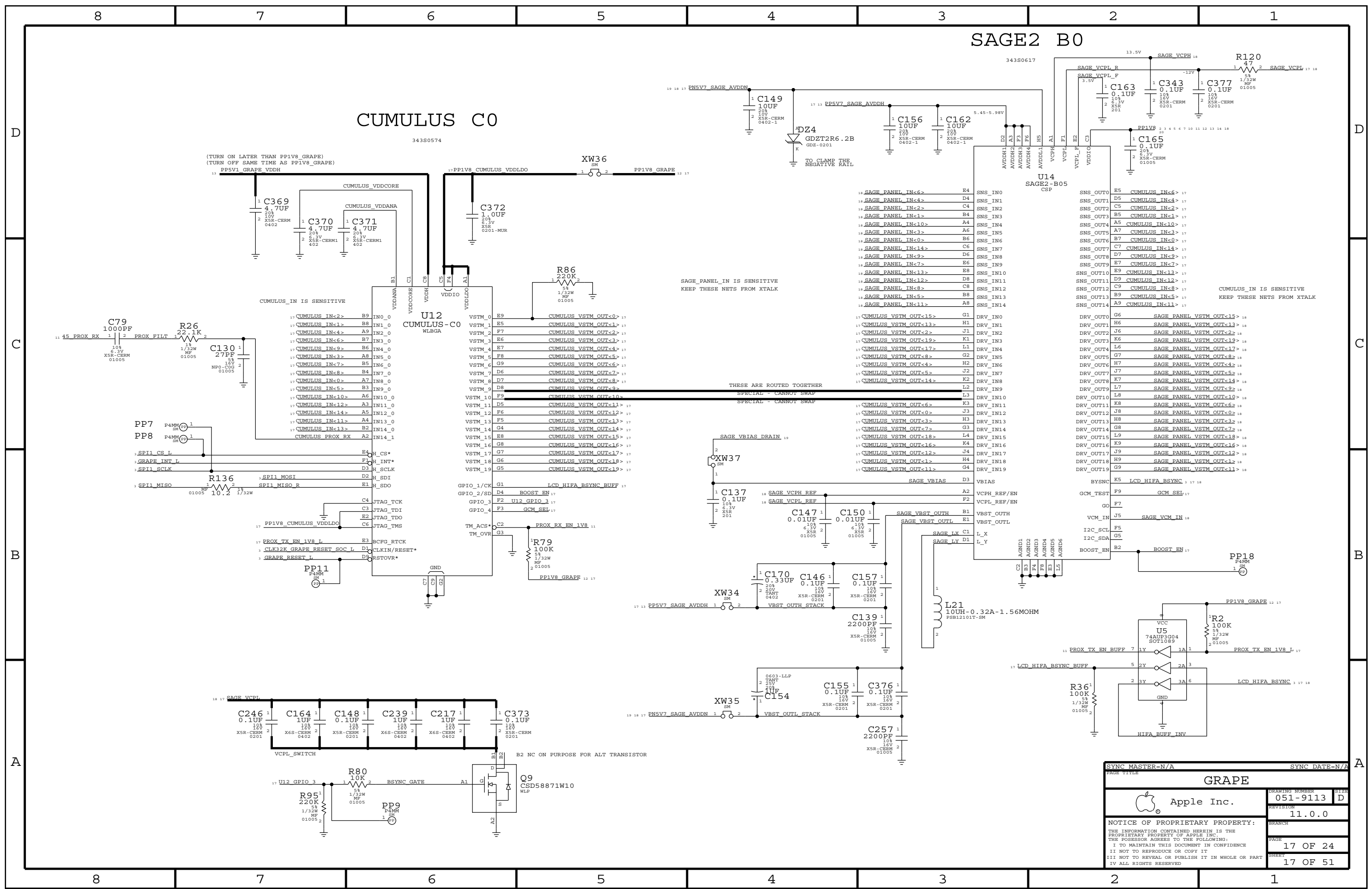
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SYNC MASTER=N/A		SYNC DATE=N/A	
DOCK CONNECTOR			
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SAGE2 B0

CUMULUS C0



(TURN ON LATER THAN PP1V8 GRAPE)
(TURN OFF SAME TIME AS PP1V8 GRAPE)
PP5V1 GRAPE VDDH

CUMULUS_IN IS SENSITIVE

SAGE_PANEL_IN IS SENSITIVE
KEEP THESE NETS FROM XTALK

THESE ARE ROUTED TOGETHER
SPECIAL - CANNOT SWAP
SPECIAL - CANNOT SWAP

CUMULUS_IN IS SENSITIVE
KEEP THESE NETS FROM XTALK

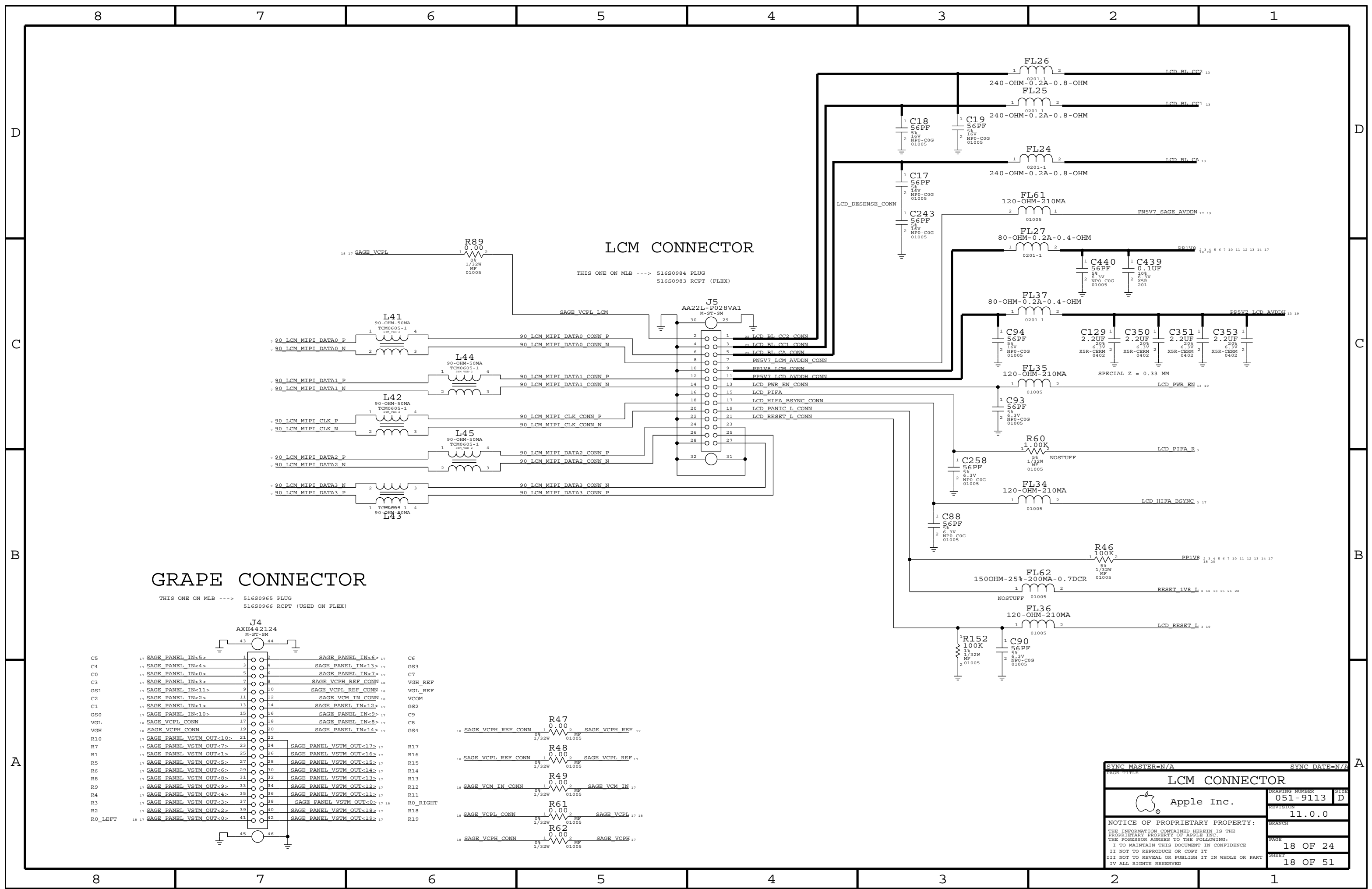
U14 SAGE2-B05 CSP

18 SAGE_PANEL_IN<6>	B4	SNS_IN0
18 SAGE_PANEL_IN<4>	D4	SNS_IN1
18 SAGE_PANEL_IN<2>	C4	SNS_IN2
18 SAGE_PANEL_IN<1>	B4	SNS_IN3
18 SAGE_PANEL_IN<10>	A4	SNS_IN4
18 SAGE_PANEL_IN<3>	A6	SNS_IN5
18 SAGE_PANEL_IN<0>	B6	SNS_IN6
18 SAGE_PANEL_IN<14>	C6	SNS_IN7
18 SAGE_PANEL_IN<9>	D6	SNS_IN8
18 SAGE_PANEL_IN<7>	E6	SNS_IN9
18 SAGE_PANEL_IN<13>	E8	SNS_IN10
18 SAGE_PANEL_IN<12>	D8	SNS_IN11
18 SAGE_PANEL_IN<8>	C8	SNS_IN12
18 SAGE_PANEL_IN<5>	B8	SNS_IN13
18 SAGE_PANEL_IN<11>	A8	SNS_IN14

SNS_OUT0	B5	CUMULUS_IN<6>
SNS_OUT1	D5	CUMULUS_IN<4>
SNS_OUT2	C5	CUMULUS_IN<2>
SNS_OUT3	B5	CUMULUS_IN<1>
SNS_OUT4	A5	CUMULUS_IN<10>
SNS_OUT5	A7	CUMULUS_IN<3>
SNS_OUT6	B7	CUMULUS_IN<0>
SNS_OUT7	C7	CUMULUS_IN<14>
SNS_OUT8	D7	CUMULUS_IN<9>
SNS_OUT9	E7	CUMULUS_IN<7>
SNS_OUT10	B9	CUMULUS_IN<13>
SNS_OUT11	D9	CUMULUS_IN<12>
SNS_OUT12	C9	CUMULUS_IN<8>
SNS_OUT13	B9	CUMULUS_IN<5>
SNS_OUT14	A9	CUMULUS_IN<11>

DRV_OUT0	G6	SAGE_PANEL_VSTM_OUT<15>
DRV_OUT1	H6	SAGE_PANEL_VSTM_OUT<13>
DRV_OUT2	J6	SAGE_PANEL_VSTM_OUT<2>
DRV_OUT3	K6	SAGE_PANEL_VSTM_OUT<19>
DRV_OUT4	L6	SAGE_PANEL_VSTM_OUT<17>
DRV_OUT5	G7	SAGE_PANEL_VSTM_OUT<8>
DRV_OUT6	H7	SAGE_PANEL_VSTM_OUT<4>
DRV_OUT7	J7	SAGE_PANEL_VSTM_OUT<5>
DRV_OUT8	K7	SAGE_PANEL_VSTM_OUT<14>
DRV_OUT9	L7	SAGE_PANEL_VSTM_OUT<9>
DRV_OUT10	L8	SAGE_PANEL_VSTM_OUT<10>
DRV_OUT11	K8	SAGE_PANEL_VSTM_OUT<6>
DRV_OUT12	J8	SAGE_PANEL_VSTM_OUT<0>
DRV_OUT13	H8	SAGE_PANEL_VSTM_OUT<3>
DRV_OUT14	G8	SAGE_PANEL_VSTM_OUT<7>
DRV_OUT15	L9	SAGE_PANEL_VSTM_OUT<18>
DRV_OUT16	K9	SAGE_PANEL_VSTM_OUT<16>
DRV_OUT17	J9	SAGE_PANEL_VSTM_OUT<12>
DRV_OUT18	H9	SAGE_PANEL_VSTM_OUT<1>
DRV_OUT19	G9	SAGE_PANEL_VSTM_OUT<11>

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LCM CONNECTOR

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

GRAPE CONNECTOR

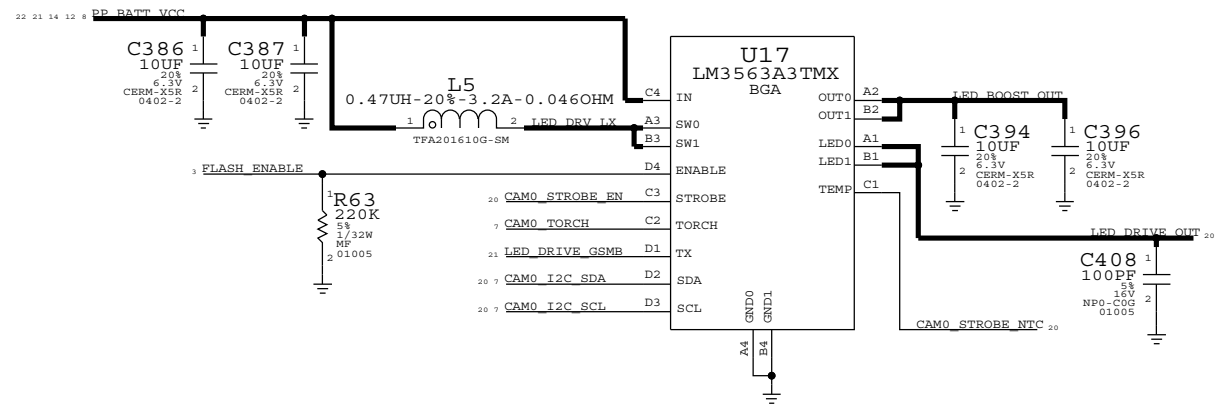
THIS ONE ON MLB ---> 516S0965 PLUG
516S0966 RCPT (USED ON FLEX)

C5	17	SAGE_PANEL_IN<5>	1	2	SAGE_PANEL_IN<6>	17	C6
C4	17	SAGE_PANEL_IN<4>	3	4	SAGE_PANEL_IN<13>	17	GS3
C0	17	SAGE_PANEL_IN<0>	5	6	SAGE_PANEL_IN<7>	17	C7
C3	17	SAGE_PANEL_IN<3>	7	8	SAGE_VCPH_REF_CONN	18	VGH_REF
GS1	17	SAGE_PANEL_IN<11>	9	10	SAGE_VCPL_REF_CONN	18	VGL_REF
C2	17	SAGE_PANEL_IN<2>	11	12	SAGE_VCM_IN_CONN	18	VCOM
C1	17	SAGE_PANEL_IN<1>	13	14	SAGE_PANEL_IN<12>	17	GS2
GS0	17	SAGE_PANEL_IN<10>	15	16	SAGE_PANEL_IN<9>	17	C9
VGL	18	SAGE_VCPL_CONN	17	18	SAGE_PANEL_IN<8>	17	C8
VGH	18	SAGE_VCPH_CONN	19	20	SAGE_PANEL_IN<14>	17	GS4
R10	17	SAGE_PANEL_VSTM_OUT<10>	21	22			
R7	17	SAGE_PANEL_VSTM_OUT<7>	23	24	SAGE_PANEL_VSTM_OUT<17>	17	R17
R1	17	SAGE_PANEL_VSTM_OUT<1>	25	26	SAGE_PANEL_VSTM_OUT<16>	17	R16
R5	17	SAGE_PANEL_VSTM_OUT<5>	27	28	SAGE_PANEL_VSTM_OUT<15>	17	R15
R6	17	SAGE_PANEL_VSTM_OUT<6>	29	30	SAGE_PANEL_VSTM_OUT<14>	17	R14
R8	17	SAGE_PANEL_VSTM_OUT<8>	31	32	SAGE_PANEL_VSTM_OUT<13>	17	R13
R9	17	SAGE_PANEL_VSTM_OUT<9>	33	34	SAGE_PANEL_VSTM_OUT<12>	17	R12
R4	17	SAGE_PANEL_VSTM_OUT<4>	35	36	SAGE_PANEL_VSTM_OUT<11>	17	R11
R3	17	SAGE_PANEL_VSTM_OUT<3>	37	38	SAGE_PANEL_VSTM_OUT<0>	17	R0_RIGHT
R2	17	SAGE_PANEL_VSTM_OUT<2>	39	40	SAGE_PANEL_VSTM_OUT<18>	17	R18
R0_LEFT	17	SAGE_PANEL_VSTM_OUT<0>	41	42	SAGE_PANEL_VSTM_OUT<19>	17	R19

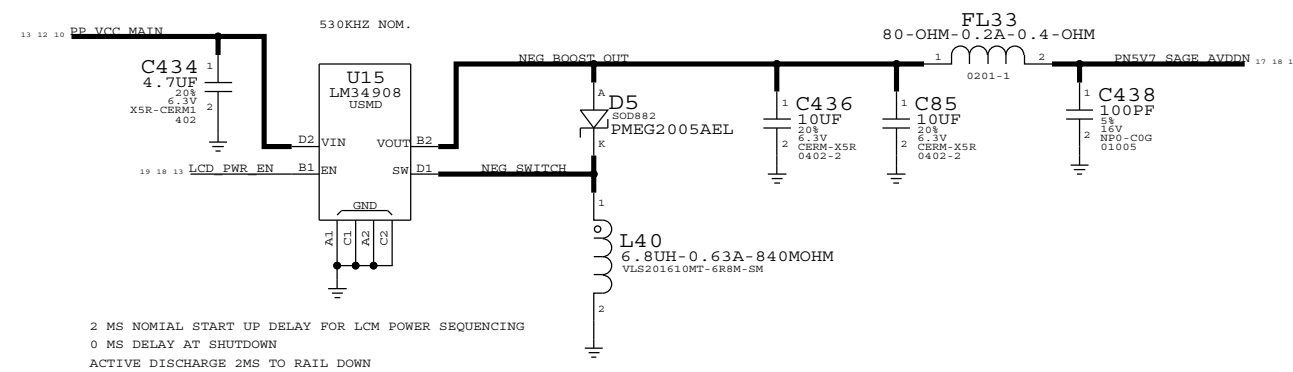
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LCM CONNECTOR			
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LED DRIVER

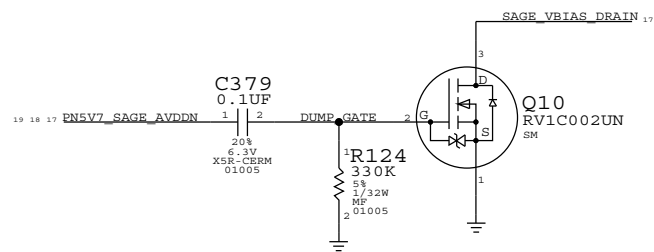
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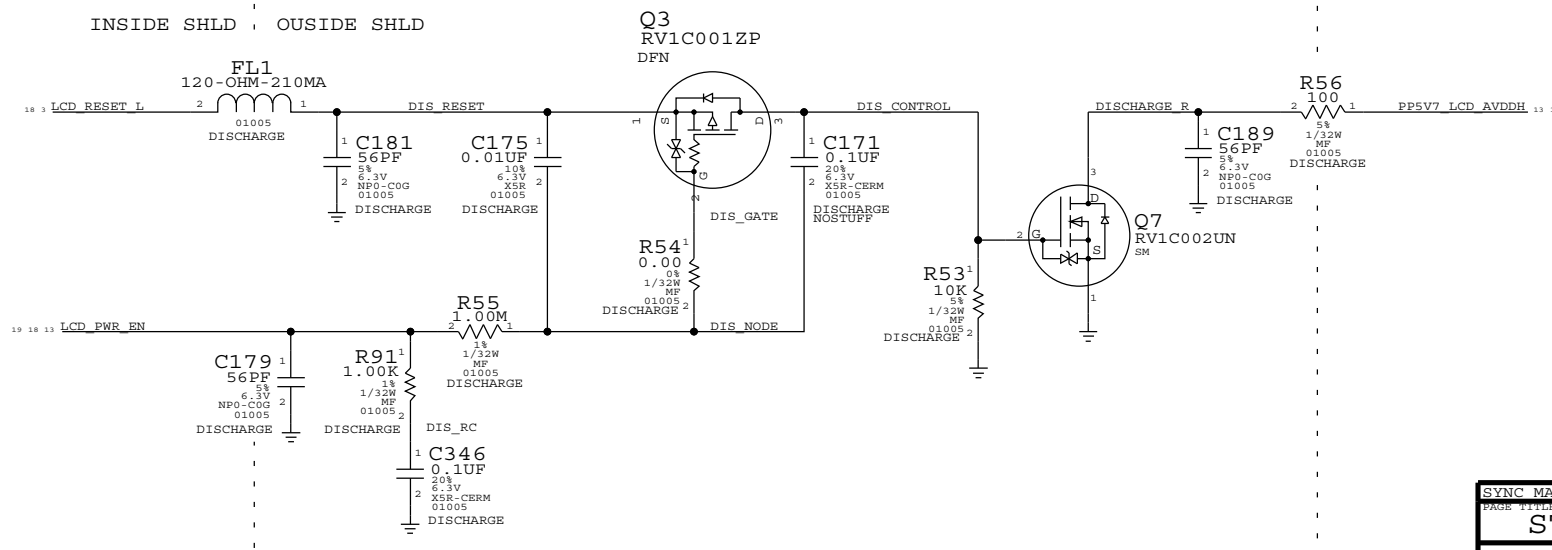
NEGATIVE BOOST SUPPLY



SAGE_VBIAS DISCHARGE



THIS CIRCUIT IS BEHIND THE SIM TRAY



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STROBE & NEGATIVE RAIL			
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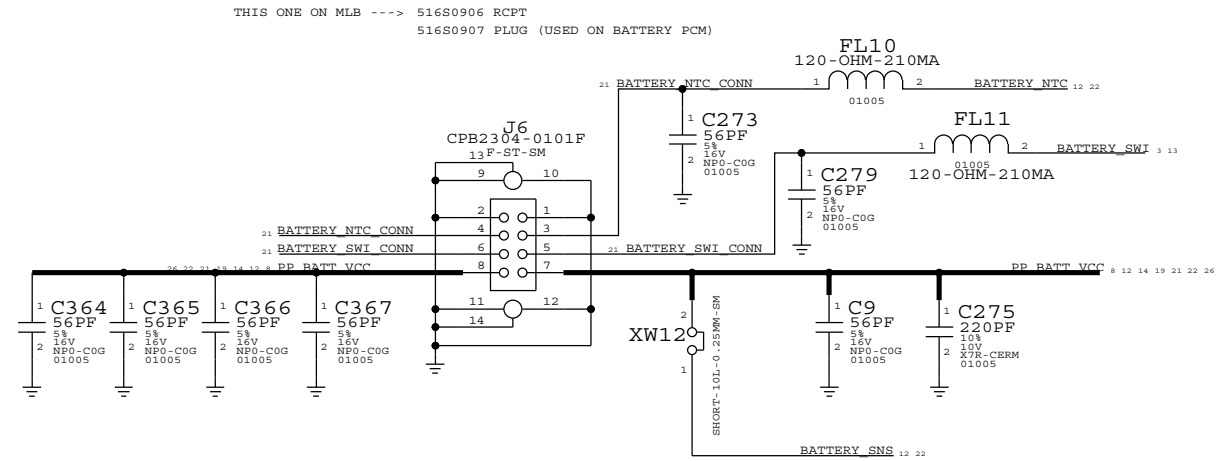
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BATTERY CONN

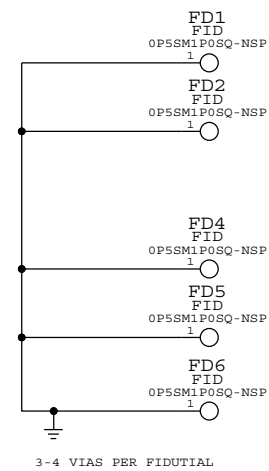


AP/RADIO INTERFACE

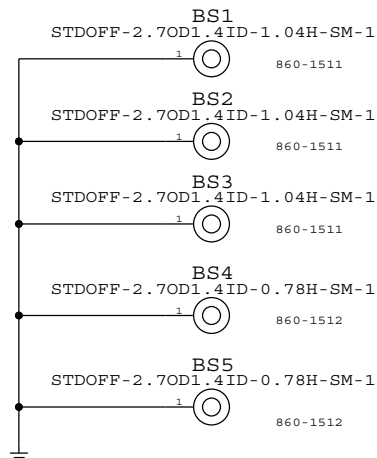
SUBDESIGN_SUFFIX=RF I594

26 22 21 19 14 12	PP_BATT_VCC	MAKE BASE-TRUE	PP_BATT_VCC_CONN	AP_HSIC3_RDY	MAKE BASE-TRUE	AP_HSIC3_RDY	3 42
	RADIO_ON_L	MAKE BASE-TRUE	RADIO_ON_L	DEV_HSIC3_RDY	MAKE BASE-TRUE	DEV_HSIC3_RDY	3 42
26 3	BB_RESET_DET_L	MAKE BASE-TRUE	RESET_DET_L	BB_JTAG_TCK	MAKE BASE-TRUE	BB_JTAG_TCK	3 26
26 13	BB_RST_PMU_L	MAKE BASE-TRUE	RESET_PMU_L	BB_JTAG_TDI	MAKE BASE-TRUE	BB_JTAG_TDI	3 26
26	BB_RST_L	MAKE BASE-TRUE	BB_RST_L	BB_JTAG_TMS	MAKE BASE-TRUE	BB_JTAG_TMS	3 26
26 13	BB_WAKE_AP	MAKE BASE-TRUE	HOST_WAKE_BB	BB_JTAG_TRST_L	MAKE BASE-TRUE	BB_JTAG_TRST_L	3 26
26 13	RESET_V18_L	MAKE BASE-TRUE	RF_RESET_L	BB_JTAG_TDO	MAKE BASE-TRUE	BB_JTAG_TDO	3 26
26 3	PBL_RUN_BB_HSIC1_RDY	MAKE BASE-TRUE	PBL_RUN_BB_HSIC1_RDY				
30 3	BB_HSIC1_REMOTE_WAKE	MAKE BASE-TRUE	BB_HSIC1_REMOTE_WAKE				
30 15	LED_DRIVE_GSMB	MAKE BASE-TRUE	TX_QTR_THRESH				
26 11	BB_VBUS_DET	MAKE BASE-TRUE	BB_USB_VBUS				
26 11	90_BB_USB_N	MAKE BASE-TRUE	90_BB_USB_D_N				
26 11	90_BB_USB_P	MAKE BASE-TRUE	90_BB_USB_D_P				
26 3	UART1_RTS_L	MAKE BASE-TRUE	BB_UART_CTS_L	RADIO_MLB			
26	UART1_CTS_L	MAKE BASE-TRUE	BB_UART_RTS_L				
26 3	UART1_TXD	MAKE BASE-TRUE	BB_UART_RXD				
26 15	UART1_RXD	MAKE BASE-TRUE	BB_UART_TXD				
30 3	BB_PP_SYNC	MAKE BASE-TRUE	PP_SYNC				
30 3	45_I2S1_BCLK	MAKE BASE-TRUE	BB_I2S_CLK				
30 3	I2S1_DOUT	MAKE BASE-TRUE	BB_I2S_RXD				
30 3	I2S1_DIN	MAKE BASE-TRUE	BB_I2S_TXD				
30 3	I2S1_LRCLK	MAKE BASE-TRUE	BB_I2S_WS				
26 13	ADC_SMP31_MSMC_1V05	MAKE BASE-TRUE	ADC_SMP31_MSMC_1V05				
26 13	ADC_SMP31_MSME_1V8	MAKE BASE-TRUE	ADC_SMP31_MSME_1V8				
26 13	ADC_LDO6_RUIM_1V8	MAKE BASE-TRUE	ADC_LDO6_RUIM_1V8				
26 13	ADC_LVS1	MAKE BASE-TRUE	ADC_LVS1				
42 15 13 9 4 3	PP1V8_SDRAM	MAKE BASE-TRUE	PP_WL_BT_VDDIO_AP				
26 13	WIFI_REG_ON	MAKE BASE-TRUE	WLAN_REG_ON				
26 13	BT_REG_ON	MAKE BASE-TRUE	BT_REG_ON				
42 3	UART4_TXD	MAKE BASE-TRUE	WLAN_UART_RXD				
42 3	UART4_RXD	MAKE BASE-TRUE	WLAN_UART_TXD				
42 3	HOST_WAKE_WLAN	MAKE BASE-TRUE	HOST_WAKE_WLAN				
26 3	BT_WAKE	MAKE BASE-TRUE	BT_WAKE				
42 13	CLK32K_WIFI	MAKE BASE-TRUE	CLK32K_AP				
42 13	HOST_WAKE_BT	MAKE BASE-TRUE	HOST_WAKE_BT				
42 3	UART3_RTS_L	MAKE BASE-TRUE	BT_UART_CTS_L				
42 3	UART3_CTS_L	MAKE BASE-TRUE	BT_UART_RTS_L				
26 3	UART3_TXD	MAKE BASE-TRUE	BT_UART_RXD				
26 3	UART3_RXD	MAKE BASE-TRUE	BT_UART_TXD				
42 3	45_I2S3_BCLK	MAKE BASE-TRUE	BT_PCM_CLK				
42 3	I2S3_DOUT	MAKE BASE-TRUE	BT_PCM_IN				
42 3	I2S3_DIN	MAKE BASE-TRUE	BT_PCM_OUT				
42 3	I2S3_LRCLK	MAKE BASE-TRUE	BT_PCM_SYNC				
26 3	50_HSIC1_DATA	MAKE BASE-TRUE	50_HSIC_BB_DATA				
26 3	50_HSIC1_STB	MAKE BASE-TRUE	50_HSIC_BB_STROBE				
30 3	AP_WAKE_MODEM	MAKE BASE-TRUE	AP_WAKE_MODEM				
42 3	50_HSIC3_DATA	MAKE BASE-TRUE	50_HSIC_WLAN_DATA				
42 3	50_HSIC3_STB	MAKE BASE-TRUE	50_HSIC_WLAN_STROBE				
26 3	AP_HSIC1_RDY	MAKE BASE-TRUE	AP_HSIC1_RDY				
27 16	PP_LDO14_2P65	MAKE BASE-TRUE	PP_LDO14_2P65				
26 16	LAT_SW1_CTL	MAKE BASE-TRUE	LAT_SW1_CTL				
42 3	WLAN_HSIC3_RESUME	MAKE BASE-TRUE	WLAN_HSIC3_RESUME				

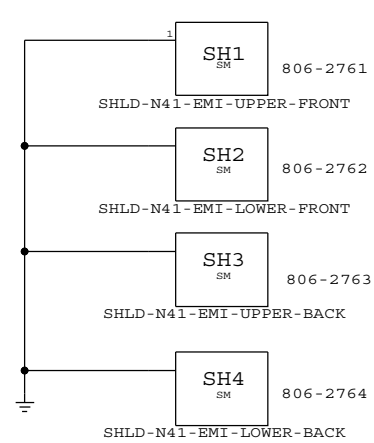
FIDUCIALS



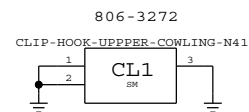
STANDOFFS



SHIELDS



UPPER COWLING CLIP/HOOK



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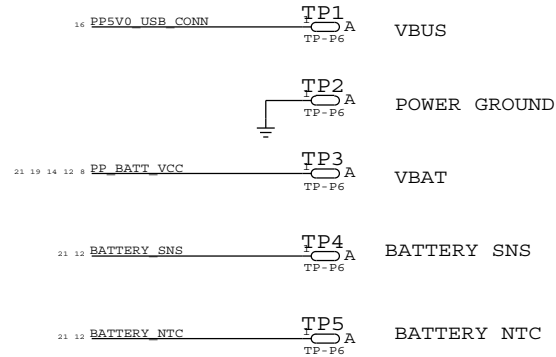
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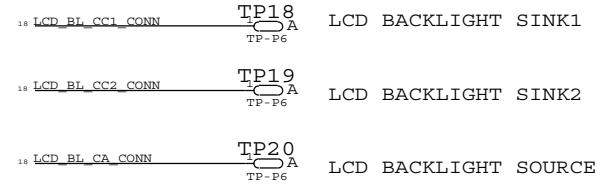
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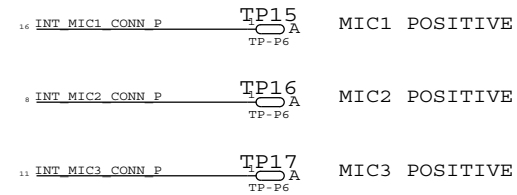
POWER TP



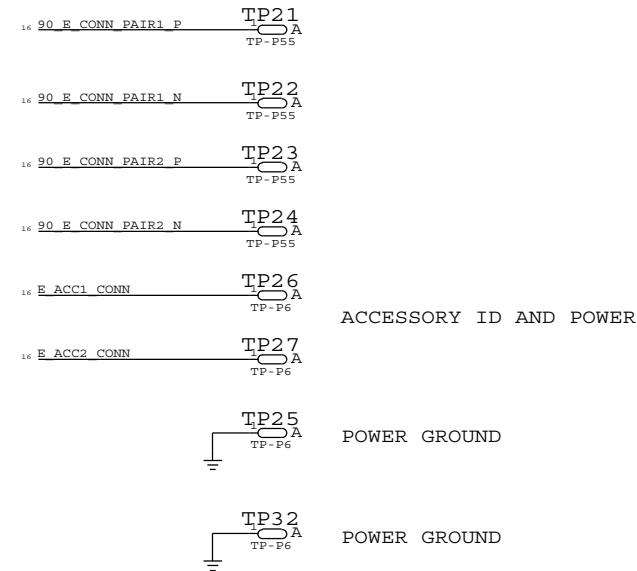
LCM BACKLIGHT



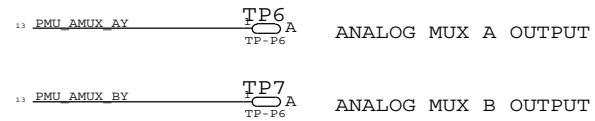
MIC AUDIO



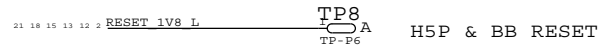
E75 - USB/UART/ID/POWER



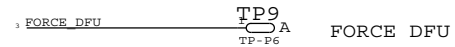
SUPER TP



RESET

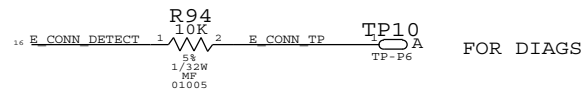
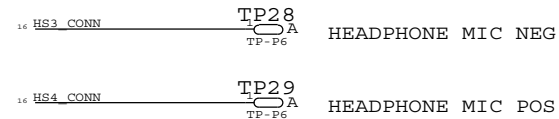


DFU



DRIVE MIC WRT NEAREST GROUND TEST POINT

HEADPHONE MIC



D

D

C

C

B

B

A

A

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SYNC MASTER=N/A		SYNC DATE=N/A	
TEST POINTS			
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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
152S1570	1	4.7NH, INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	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

SINGING CAP BOM OPTIONS

NEED TO COPY FROM AP TABLE WHEN STAN FINISHES

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
117S0161	1	0OHM RES	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

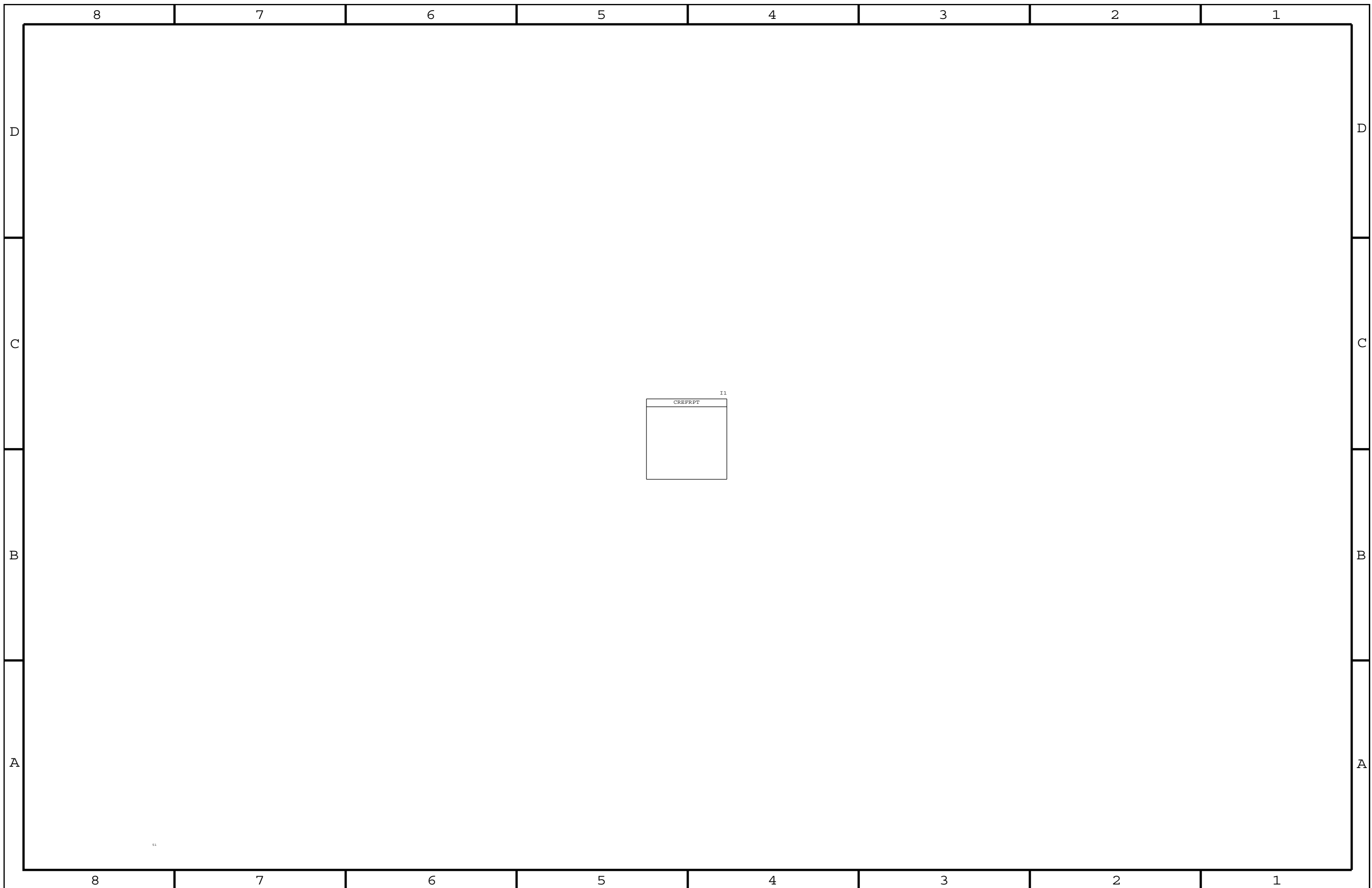
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S0215	1	22PF CAPACITOR - 01005	L1417_RF	Y	B4_17
152S1569	1	3.9NH INDUCTOR - 01005	L1417_RF	Y	B3_13
131S0369	1	0.5PF CAPACITOR - 01005	L1408_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B4_17
152S1705	1	2.7NH INDUCTOR - 0201	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
152S1705	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

DRAWING NUMBER		051-9113	SIZE	D
REVISION		11.0.0	BRANCH	
PAGE		23 OF 24	SHEET	
SHEET		23 OF 51		

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CREFRPT

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ECN	DESCRIPTION OF REVISION	CK APPD	DATE
11	0001447874	ENGINEERING RELEASED		2012-05-02

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N41 RADIO_MLB SUBDESIGN

RADIO - 04/30/2012: SUBDESIGN

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02	AP INTERFACE AND DEBUG CONNECTORS
03	BASEBAND PMU (1 OF 2)
04	BASEBAND PMU (2 OF 2)
05	BASEBAND (1 OF 2)
06	BASEBAND (2 OF 2) & SERIAL EEPROM
07	RF TRANSCEIVER (1 OF 3)
08	RF TRANSCEIVER SWITCHING NETWORKS (2 OF 3)
09	RF TRANSCEIVER DECOUPLING (3 OF 3)
10	BAND 5/8 PAD
11	BAND 13 INTERSTAGE, PA, AND DUPLEXER
12	2G PA, PA DCDC CONVERTER
13	ASM, DCS RX
14	BAND 1/4 PAD
15	BAND 2 PAD
16	RX DIVERSITY
17	GPS
18	WLAN/BT
19	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

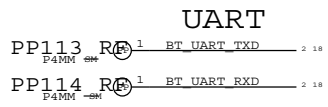
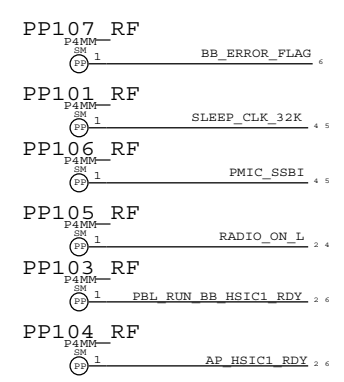
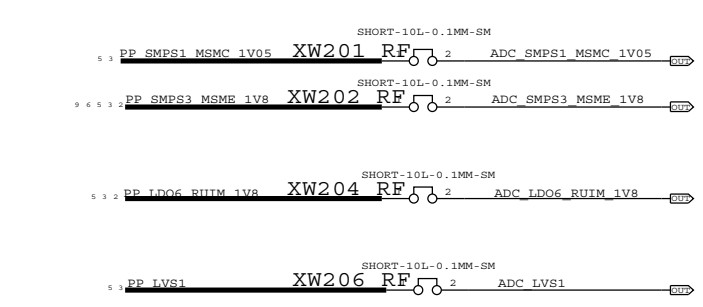
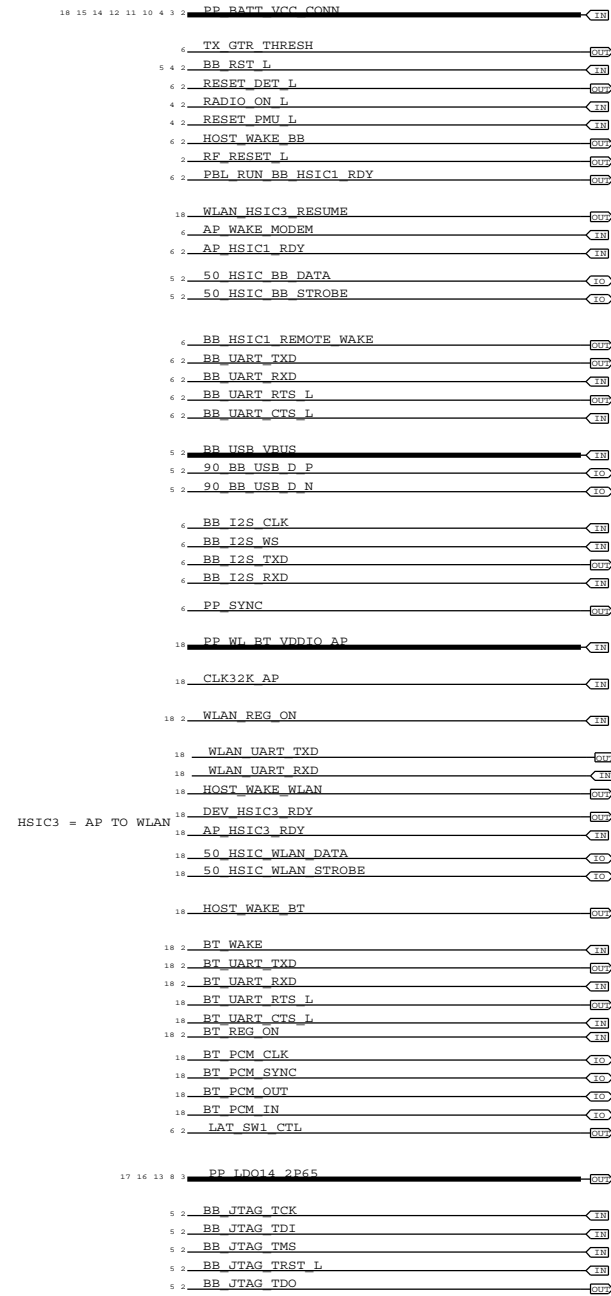
SCH #: 051-9119
 BOM (B4_17): 639-2482
 BOM (B3_13): 639-3241

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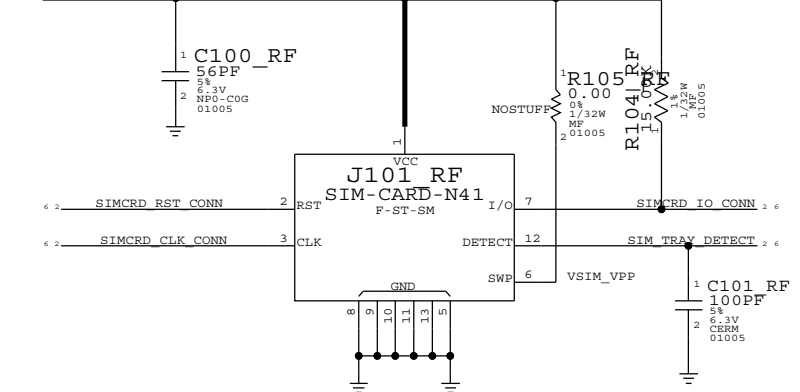
AP INTERFACE & DEBUG CONNECTOR

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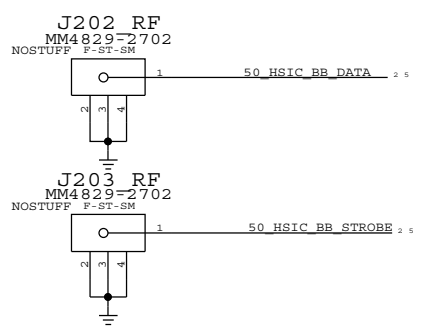
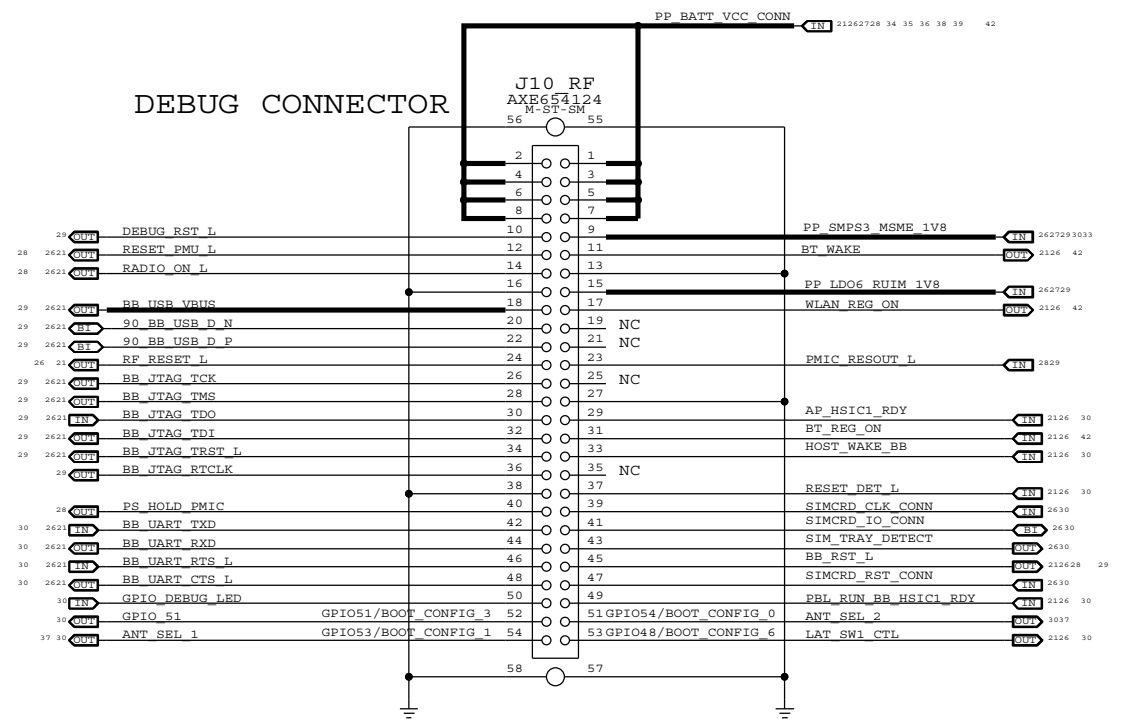
AP CONNECTIONS



SIM CARD CONNECTOR



DEBUG CONNECTOR



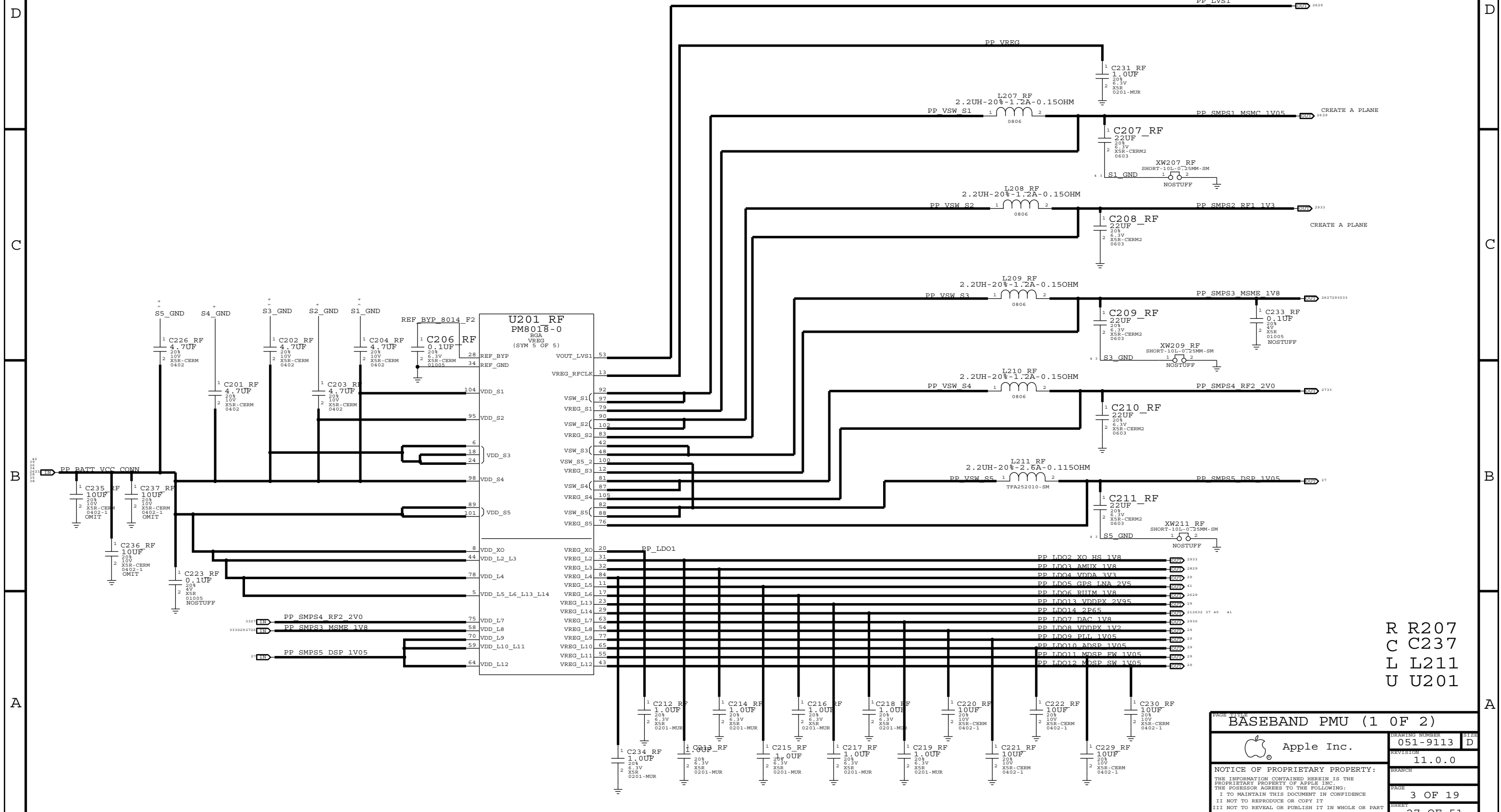
BOOT OPTIONS	BOOT_CONFIG SW REGISTER VALUE	GPIO/BOOT_CONFIG CONFIGURATION								
		6	5	4	3	2	1	0		
BOOT_DEFAULT_OPTION	0X00	X	0	0	0	0	0	0	0	X
BOOT_NAND_OPTION	0X01	X	1	0	0	0	0	0	1	X
BOOT_HSIC_OPTION	0X02	X	1	0	0	0	0	1	0	X
BOOT_USB_OPTION	0X03	X	1	0	0	0	0	1	1	X
ENABLE_SAHARA_PROTOCOL	0X08	X	1	0	0	1	0	X	X	X

R R105
C C101
XWXW206
DZDZ101
U U101

SYSTEM & DEBUG CONNECTORS		
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BASEBAND PMU (1 OF 2)

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R R207
C C237
L L211
U U201

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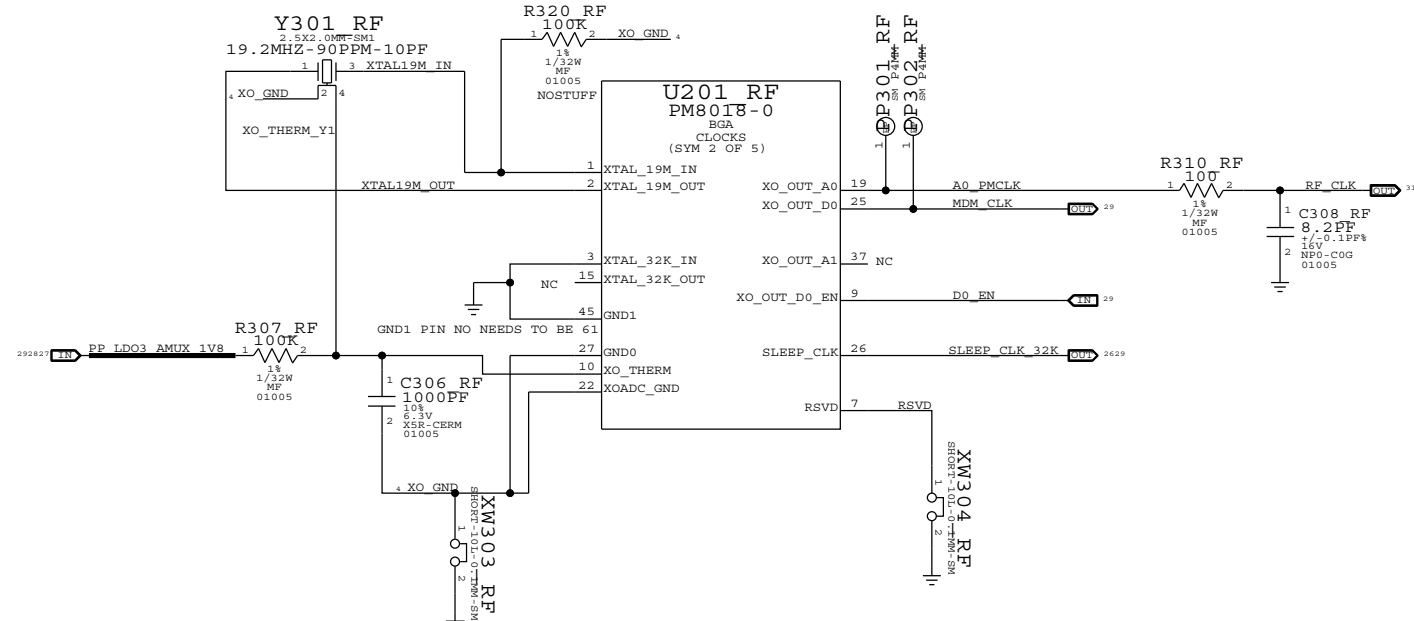
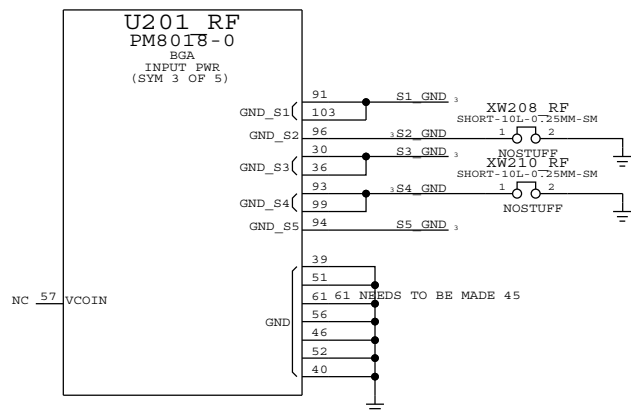
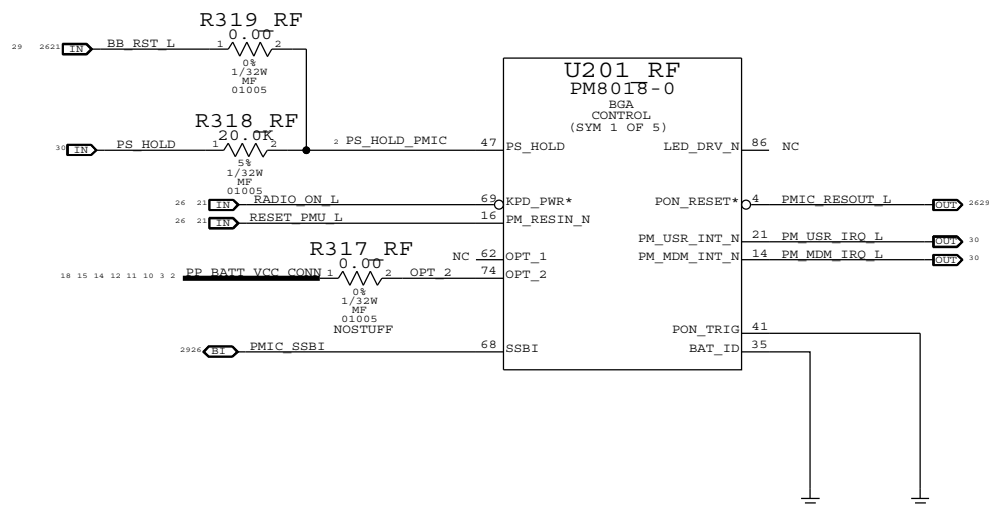
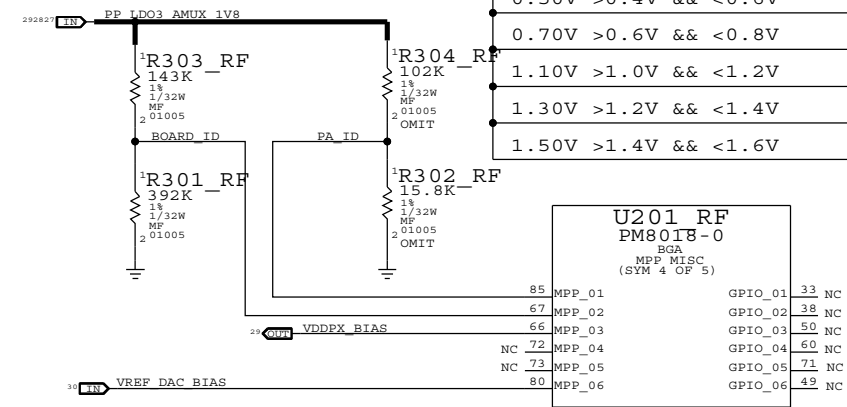
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BASEBAND PMU (2 OF 2)

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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

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

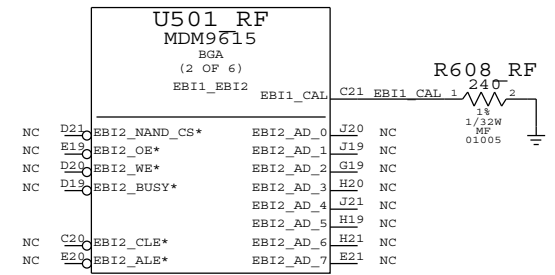
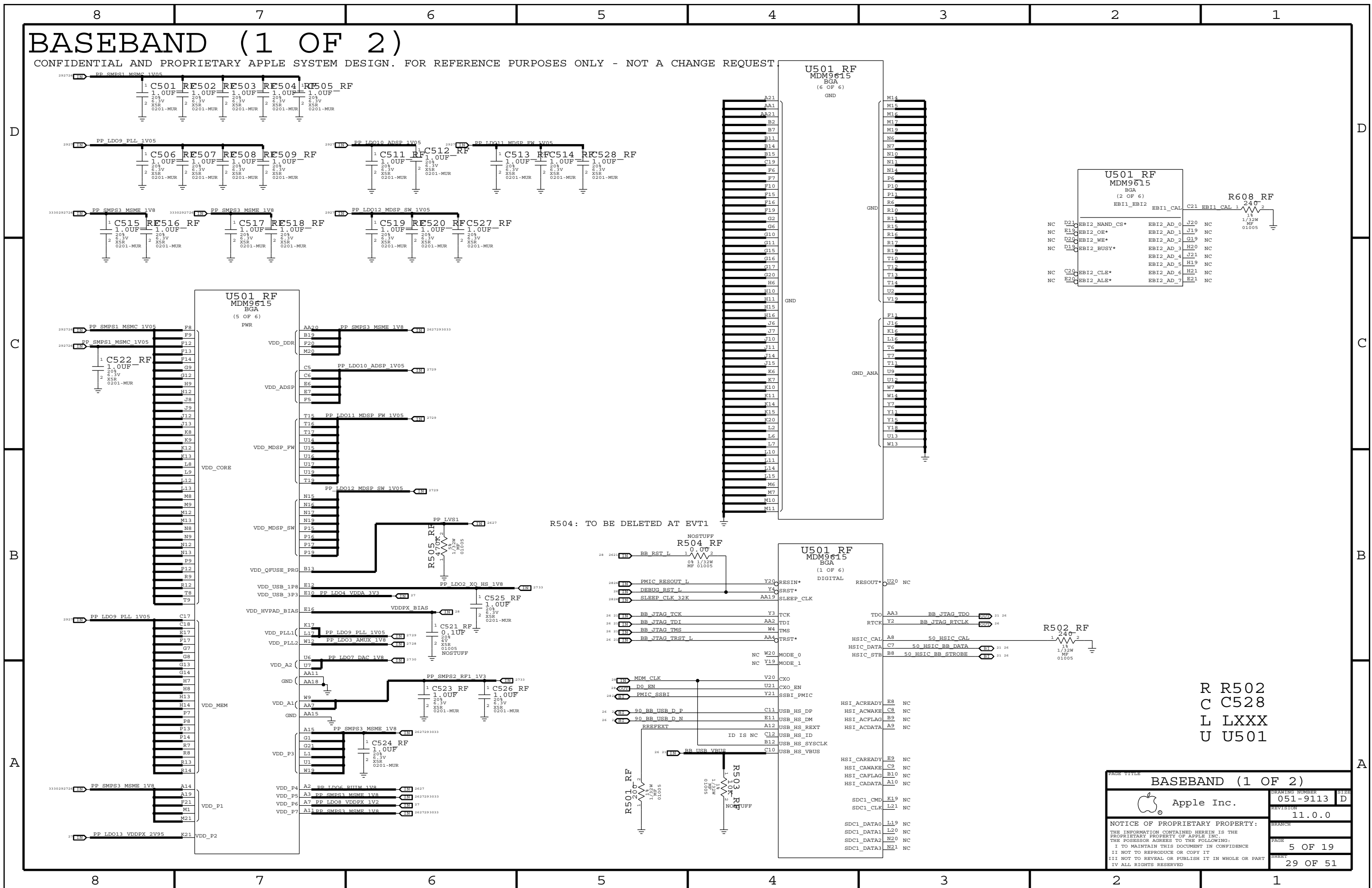


R R320
C C309
L LXXX
U U301
XW XW305

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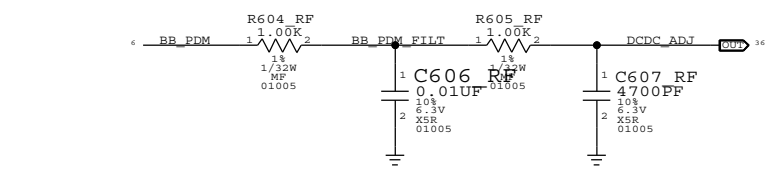
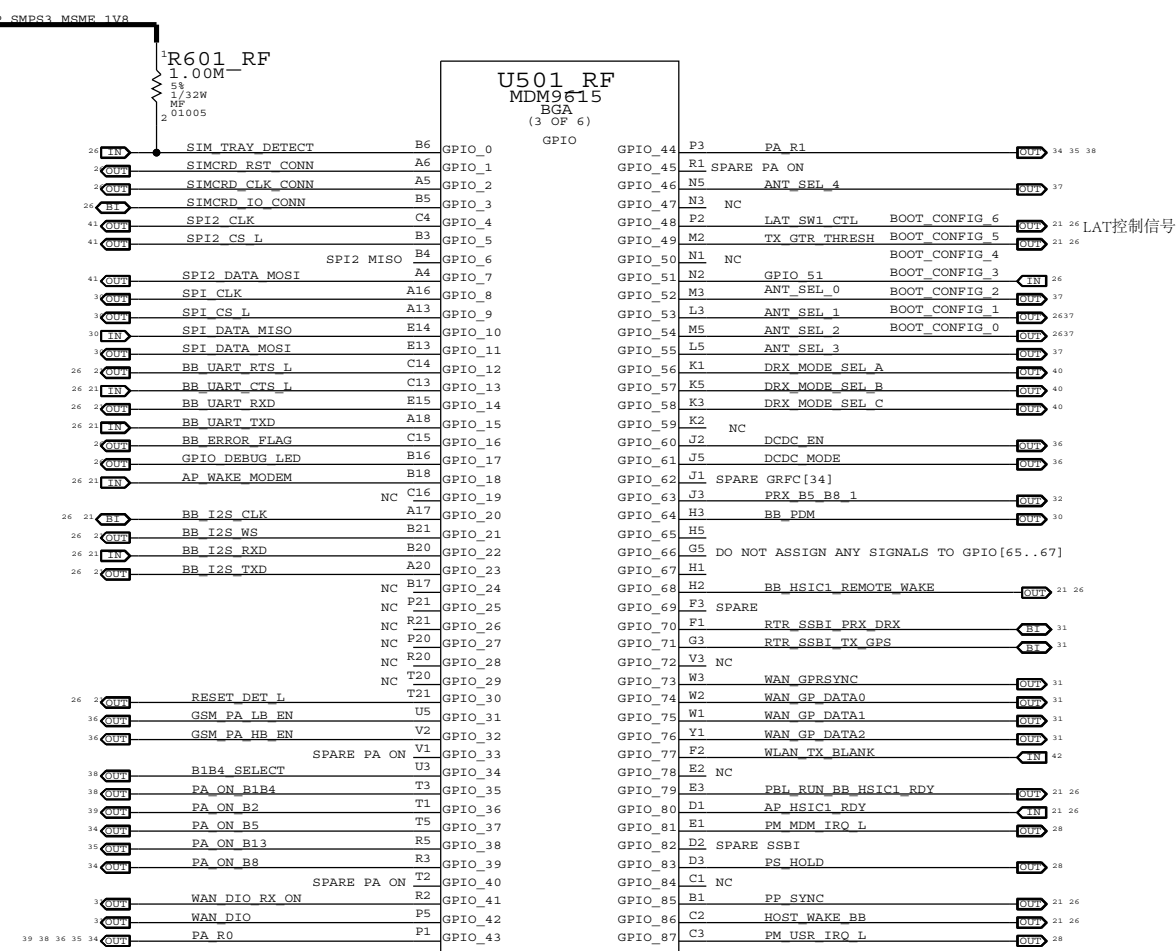
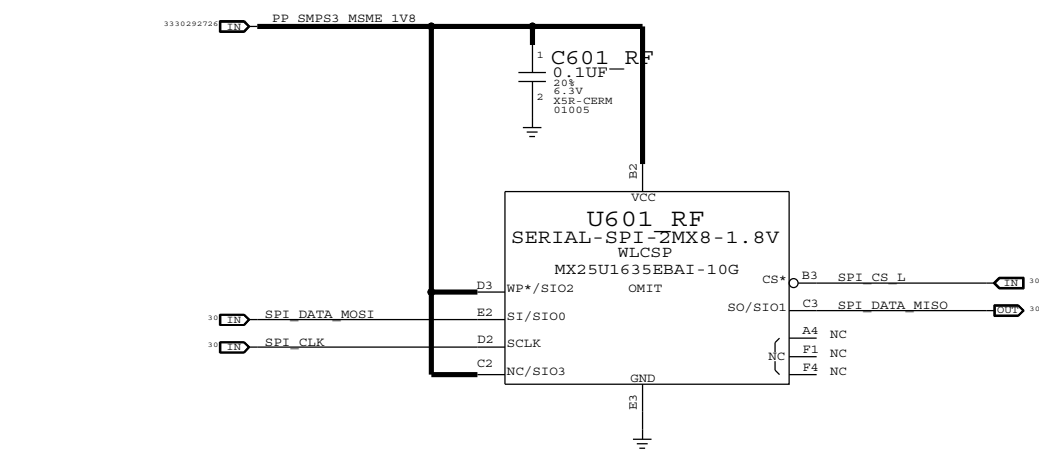
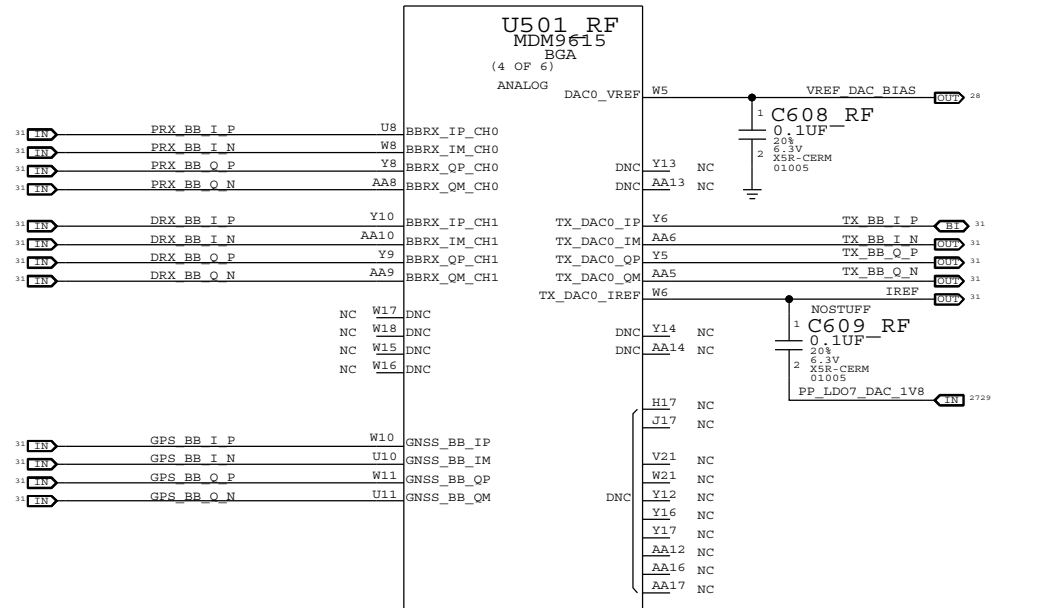
R504: TO BE DELETED AT EVT1

R R502
C C528
L LXXX
U U501

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BASEBAND (2 OF 2)

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R R608
 C C609
 L L601

MOBILE DATA MODEM (2 OF 2)

Apple Inc.

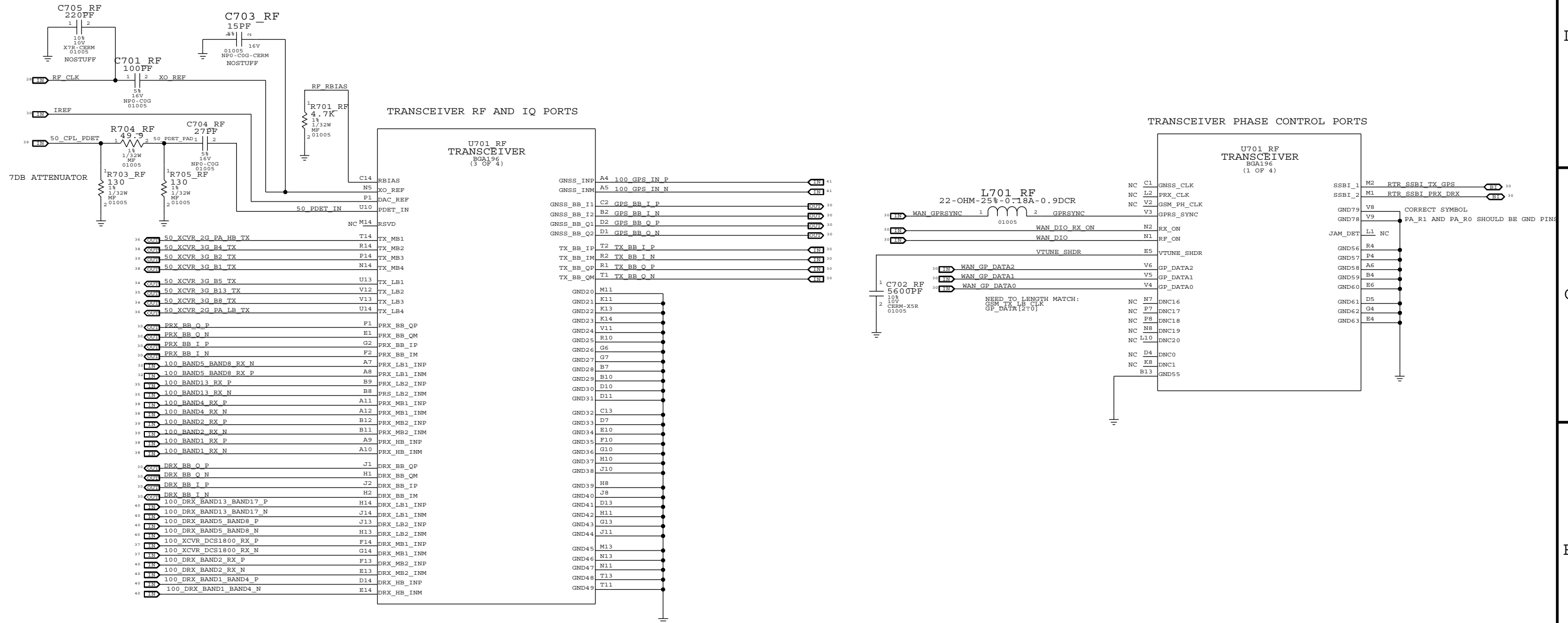
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RF TRANSCEIVER (1 OF 3)

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R R705
C C705
L L701
U U701

RF TRANSCEIVER (1 OF 3)		
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RF TRANSCEIVER SWITCHING NETWORKS (2 OF 3)

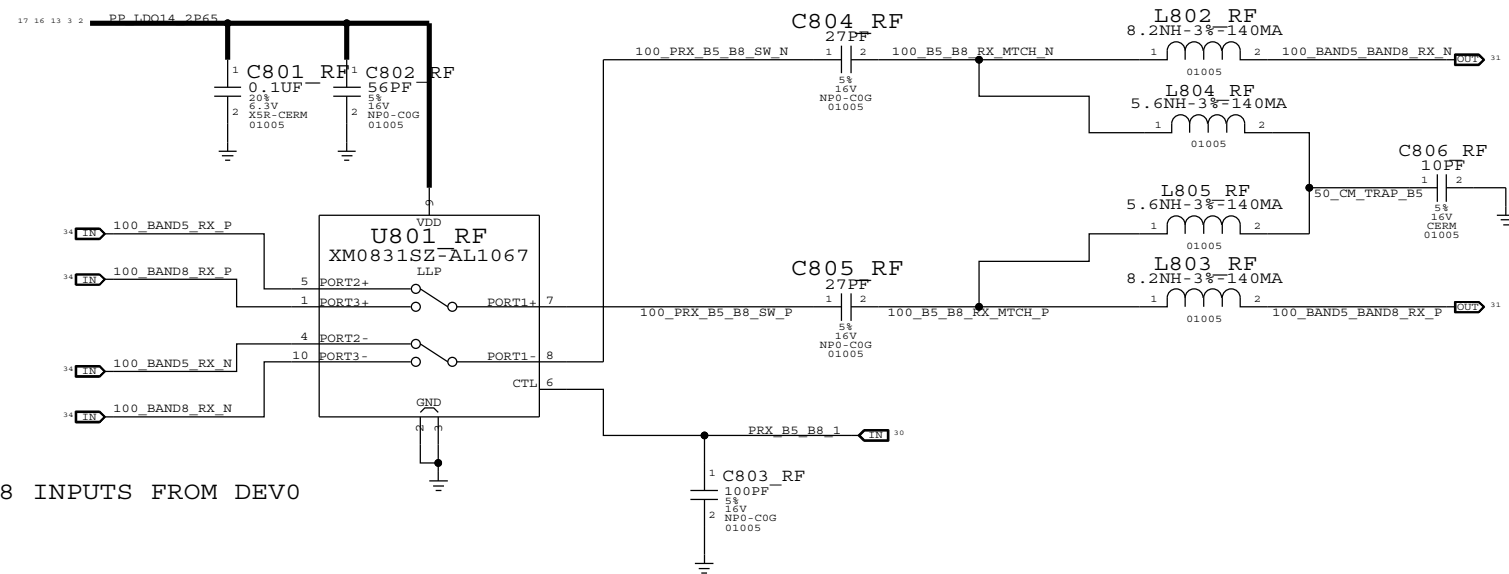
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BAND 5/BAND 8 PRX TRANSCEIVER SWITCH

XM0830SZ SWITCH LOGIC

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

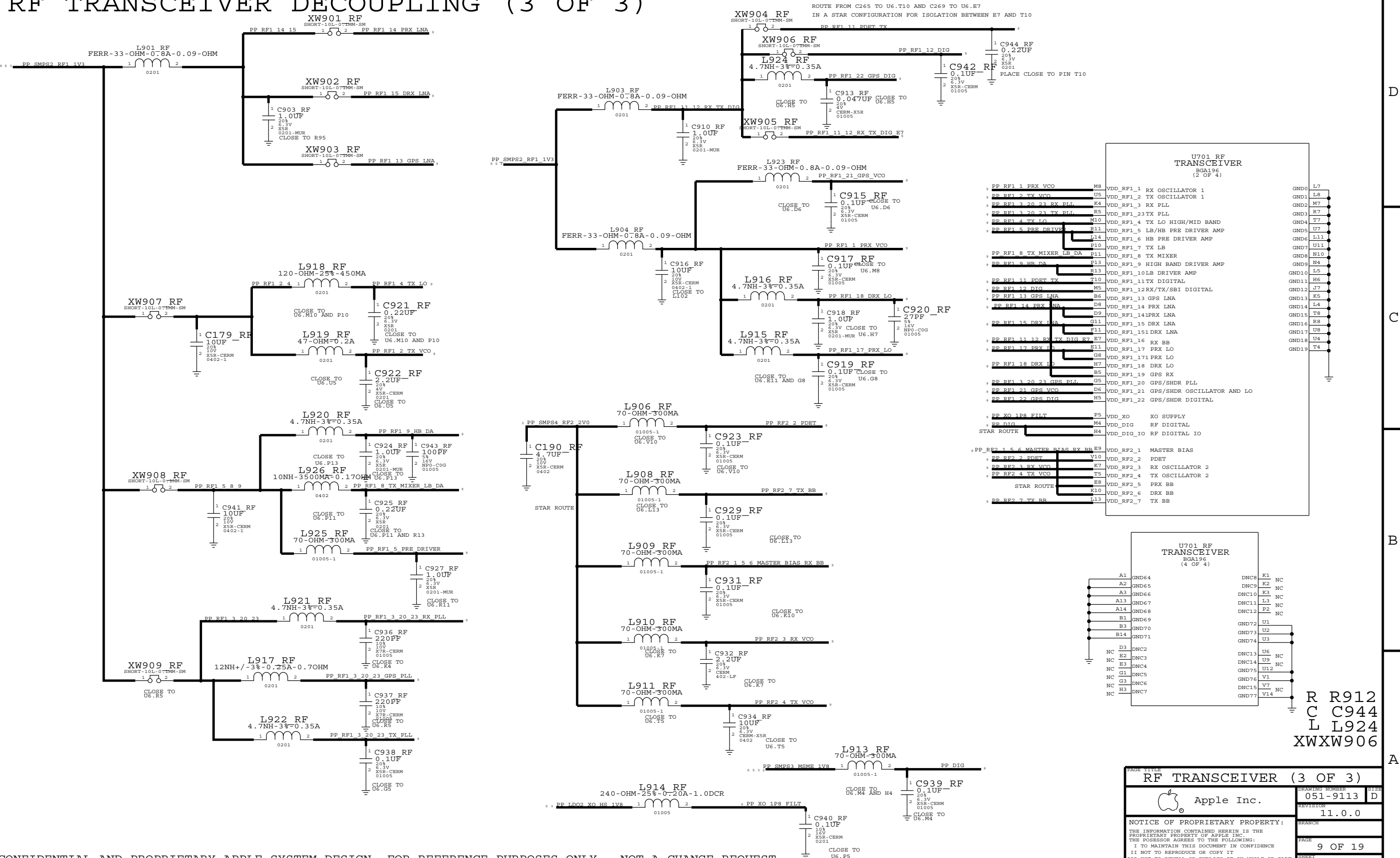
SWAPPED BAND5 AND BAND8 INPUTS FROM DEVO



R RXXX
C C806
L L803
U U801

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RF TRANSCEIVER DECOUPLING (3 OF 3)



PP RF1 1 PRX VCO	M8	VDD_RF1_1 RX OSCILLATOR 1	GND0	L7
PP RF1 2 TX VCO <th>U5</th> <td>VDD_RF1_2 TX OSCILLATOR 1</td> <td>GND1 <th>L8</th> </td>	U5	VDD_RF1_2 TX OSCILLATOR 1	GND1 <th>L8</th>	L8
PP RF1 3 20 23 RX PLL <th>K4</th> <td>VDD_RF1_3 RX PLL</td> <td>GND2 <th>M7</th> </td>	K4	VDD_RF1_3 RX PLL	GND2 <th>M7</th>	M7
PP RF1 3 20 23 TX PLL <th>R5</th> <td>VDD_RF1_23 TX PLL</td> <td>GND3 <th>R7</th> </td>	R5	VDD_RF1_23 TX PLL	GND3 <th>R7</th>	R7
PP RF1 4 TX LO <th>M10</th> <td>VDD_RF1_4 TX LO HIGH/MID BAND</td> <td>GND4 <th>T7</th> </td>	M10	VDD_RF1_4 TX LO HIGH/MID BAND	GND4 <th>T7</th>	T7
PP RF1 5 PRE DRIVER <th>R11</th> <td>VDD_RF1_5 LB/HB PRE DRIVER AMP</td> <td>GND5 <th>U7</th> </td>	R11	VDD_RF1_5 LB/HB PRE DRIVER AMP	GND5 <th>U7</th>	U7
	L14	VDD_RF1_6 HB PRE DRIVER AMP	GND6 <th>L11</th>	L11
	P10	VDD_RF1_7 TX LB	GND7 <th>U11</th>	U11
PP RF1 8 TX MIXER LB DA <th>P11</th> <td>VDD_RF1_8 TX MIXER</td> <td>GND8 <th>N10</th> </td>	P11	VDD_RF1_8 TX MIXER	GND8 <th>N10</th>	N10
PP RF1 9 HB DA <th>P13</th> <td>VDD_RF1_9 HIGH BAND DRIVER AMP</td> <td>GND9 <th>N4</th> </td>	P13	VDD_RF1_9 HIGH BAND DRIVER AMP	GND9 <th>N4</th>	N4
	R13	VDD_RF1_10 LB DRIVER AMP	GND10 <th>L5</th>	L5
PP RF1 11 PDET TX <th>T10</th> <td>VDD_RF1_11 TX DIGITAL</td> <td>GND11 <th>H6</th> </td>	T10	VDD_RF1_11 TX DIGITAL	GND11 <th>H6</th>	H6
PP RF1 12 DIG <th>M5</th> <td>VDD_RF1_12 RX/TX/SBI DIGITAL</td> <td>GND12 <th>J7</th> </td>	M5	VDD_RF1_12 RX/TX/SBI DIGITAL	GND12 <th>J7</th>	J7
PP RF1 13 GPS LNA <th>B6</th> <td>VDD_RF1_13 GPS LNA</td> <td>GND13 <th>K5</th> </td>	B6	VDD_RF1_13 GPS LNA	GND13 <th>K5</th>	K5
PP RF1 14 PRX LNA <th>D8</th> <td>VDD_RF1_14 PRX LNA</td> <td>GND14 <th>L4</th> </td>	D8	VDD_RF1_14 PRX LNA	GND14 <th>L4</th>	L4
PP RF1 15 DRX LNA <th>D9</th> <td>VDD_RF1_14 PRX LNA</td> <td>GND15 <th>T8</th> </td>	D9	VDD_RF1_14 PRX LNA	GND15 <th>T8</th>	T8
	G11	VDD_RF1_15 DRX LNA	GND16 <th>R8</th>	R8
	F11	VDD_RF1_15 DRX LNA	GND17 <th>U8</th>	U8
PP RF1 11 12 RX TX DIG E7 <th>R11</th> <td>VDD_RF1_16 RX BB</td> <td>GND18 <th>U4</th> </td>	R11	VDD_RF1_16 RX BB	GND18 <th>U4</th>	U4
PP RF1 17 PRX LO <th>G8</th> <td>VDD_RF1_17 PRX LO</td> <td>GND19 <th>T4</th> </td>	G8	VDD_RF1_17 PRX LO	GND19 <th>T4</th>	T4
PP RF1 18 DRX LO <th>H7</th> <td>VDD_RF1_17 PRX LO</td> <td></td> <td></td>	H7	VDD_RF1_17 PRX LO		
	B5	VDD_RF1_18 DRX LO		
	G5	VDD_RF1_19 GPS RX		
PP RF1 3 20 23 GPS PLL <th>G5</th> <td>VDD_RF1_20 GPS/SHDR PLL</td> <td></td> <td></td>	G5	VDD_RF1_20 GPS/SHDR PLL		
PP RF1 21 GPS VCO <th>D6</th> <td>VDD_RF1_21 GPS/SHDR OSCILLATOR AND LO</td> <td></td> <td></td>	D6	VDD_RF1_21 GPS/SHDR OSCILLATOR AND LO		
PP RF1 22 GPS DIG <th>H5</th> <td>VDD_RF1_22 GPS/SHDR DIGITAL</td> <td></td> <td></td>	H5	VDD_RF1_22 GPS/SHDR DIGITAL		
PP XO 1PB FILT <th>P5</th> <td>VDD_XO XO SUPPLY</td> <td></td> <td></td>	P5	VDD_XO XO SUPPLY		
PP DIG <th>M4</th> <td>VDD_DIG RF DIGITAL IO</td> <td></td> <td></td>	M4	VDD_DIG RF DIGITAL IO		
STAR ROUTE <th>H4</th> <td>VDD_DIG_IO RF DIGITAL IO</td> <td></td> <td></td>	H4	VDD_DIG_IO RF DIGITAL IO		
PP RF2 1 5 6 MASTER BIAS RX BB <th>E9</th> <td>VDD_RF2_1 MASTER BIAS</td> <td></td> <td></td>	E9	VDD_RF2_1 MASTER BIAS		
PP RF2 2 PDET <th>V10</th> <td>VDD_RF2_2 PDET</td> <td></td> <td></td>	V10	VDD_RF2_2 PDET		
PP RF2 3 RX VCO <th>K7</th> <td>VDD_RF2_3 RX OSCILLATOR 2</td> <td></td> <td></td>	K7	VDD_RF2_3 RX OSCILLATOR 2		
PP RF2 4 TX VCO <th>T5</th> <td>VDD_RF2_4 TX OSCILLATOR 2</td> <td></td> <td></td>	T5	VDD_RF2_4 TX OSCILLATOR 2		
STAR ROUTE <th>B8</th> <td>VDD_RF2_5 PRX BB</td> <td></td> <td></td>	B8	VDD_RF2_5 PRX BB		
	K10	VDD_RF2_6 DRX BB		
PP RF2 7 TX BB <th>L13</th> <td>VDD_RF2_7 TX BB</td> <td></td> <td></td>	L13	VDD_RF2_7 TX BB		

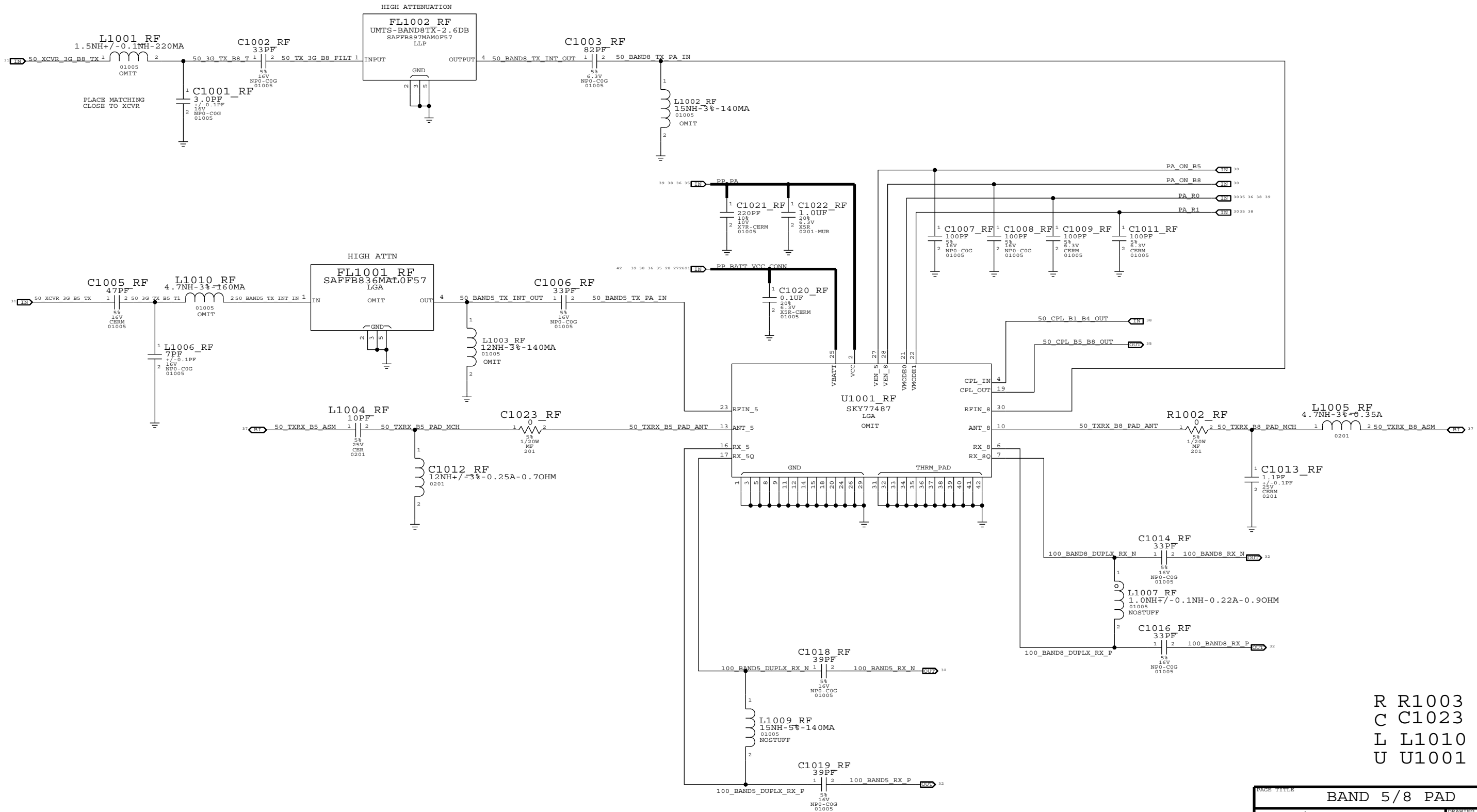
A1	GND64	DNC8	K1	NC
A2	GND65	DNC9	K2	NC
A3	GND66	DNC10	K3	NC
A13	GND67	DNC11	L3	NC
A14	GND68	DNC12	P2	NC
B1	GND69	GND72	U1	
B3	GND70	GND73	U2	
B14	GND71	GND74	U3	
D3	DNC2	DNC13	U6	NC
E2	DNC3	DNC14	U9	NC
E3	DNC4	GND75	U12	
G1	DNC5	GND76	U1	
G3	DNC6	DNC15	V7	NC
H3	DNC7	GND77	V14	

R R912
C C944
L L924
XW906


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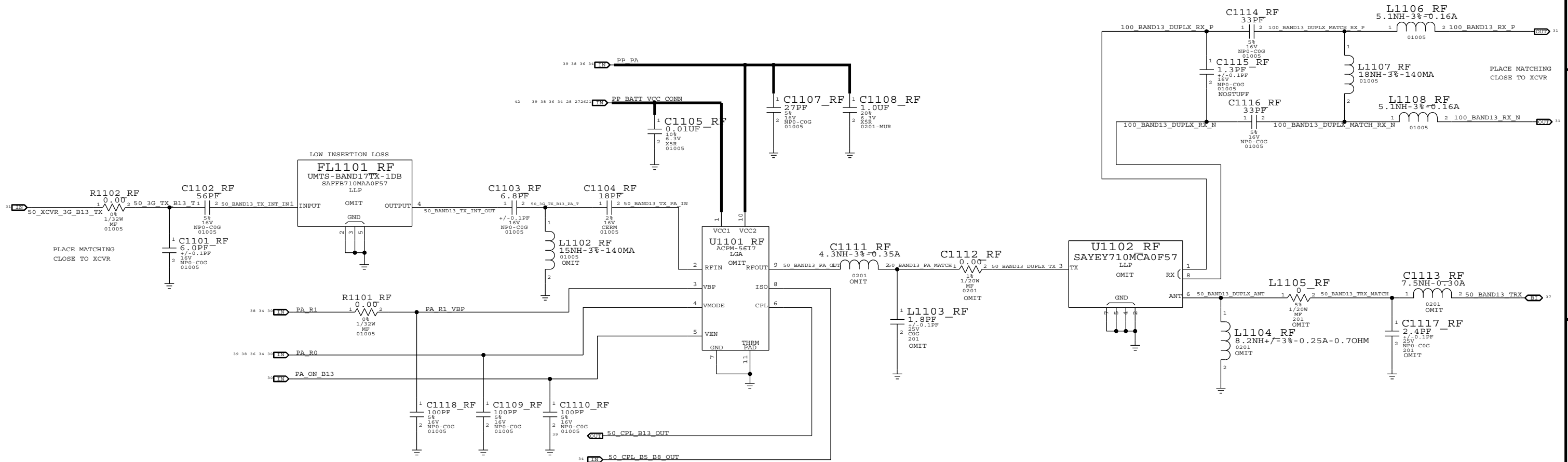


- R R1003
- C C1023
- L L1010
- U U1001

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B13/17 INTERSTAGE, PA, AND DUPLEXER

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PA POWER MODES

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

FLFL1101
R R1102
C C1118
L L1108
U U1102

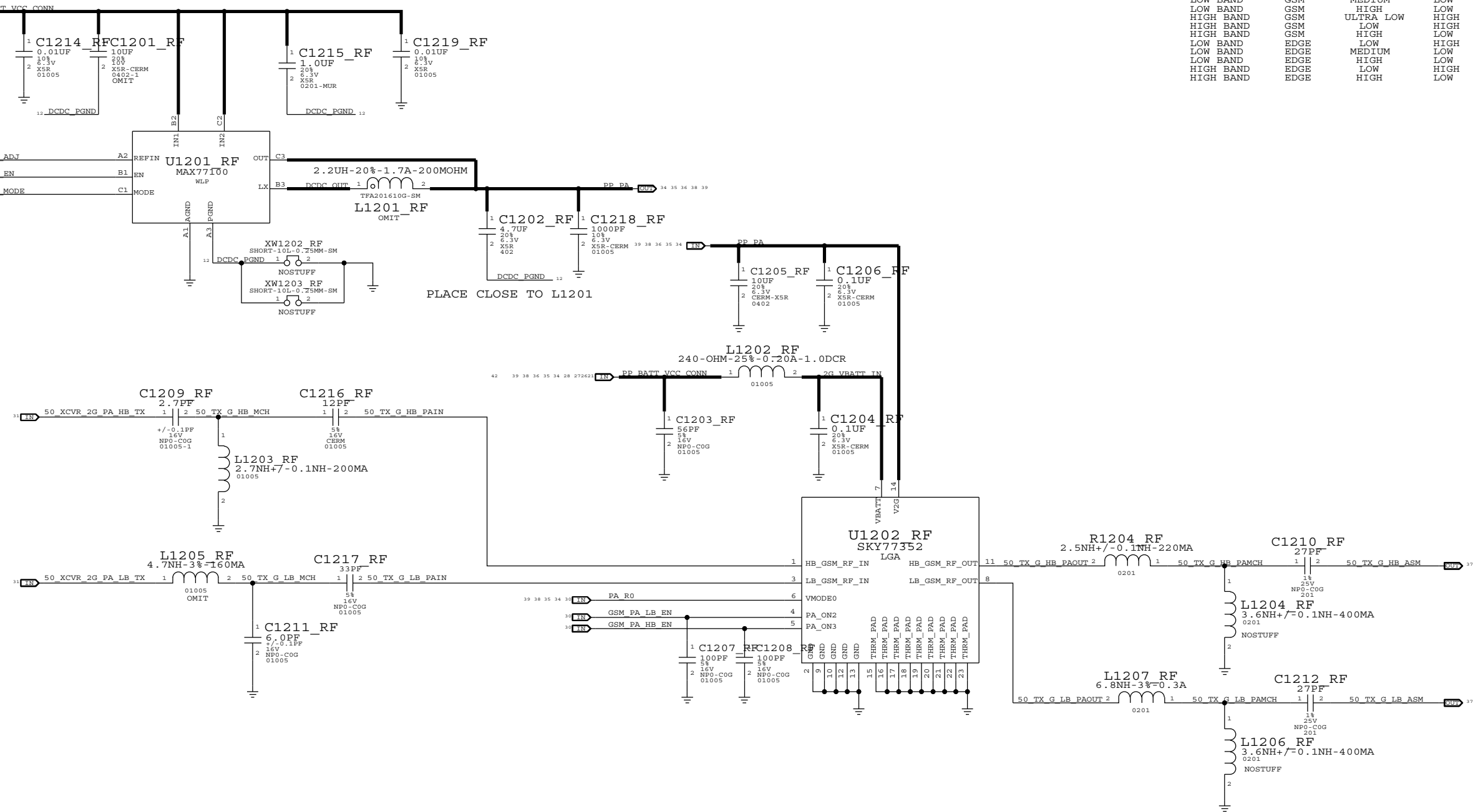
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2G PA, PA DC/DC CONVERTER

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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



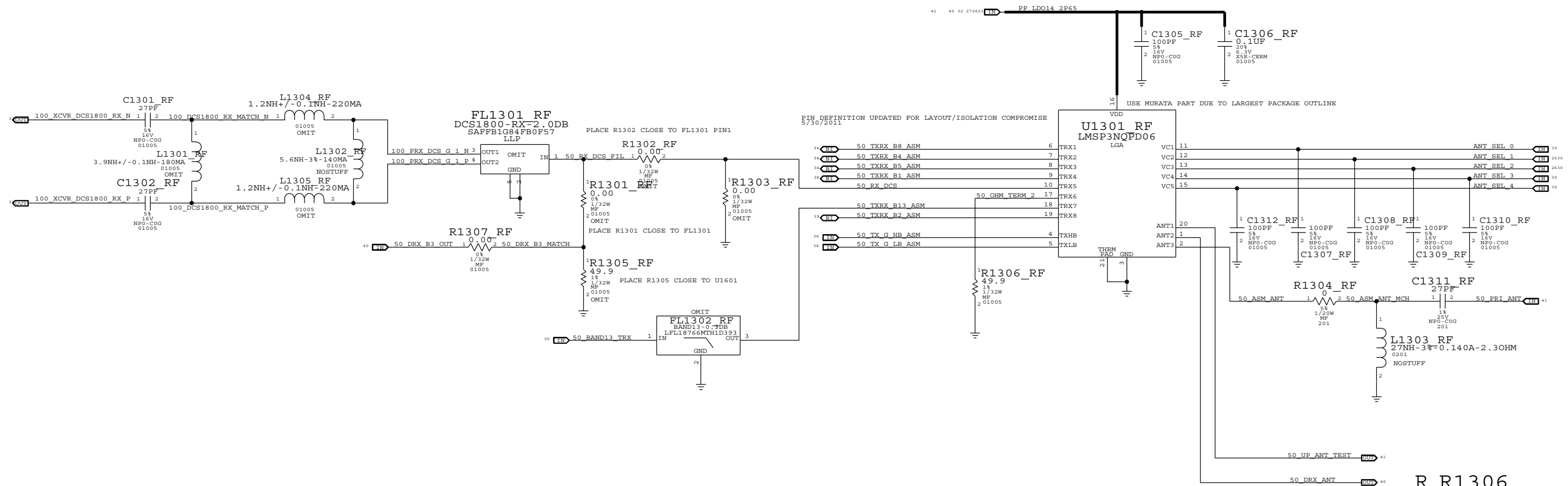
PLACE CLOSE TO L1201

R R1209
C C1220
L L1207
U U1202

PAGE TITLE		
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ASM, DCS RX

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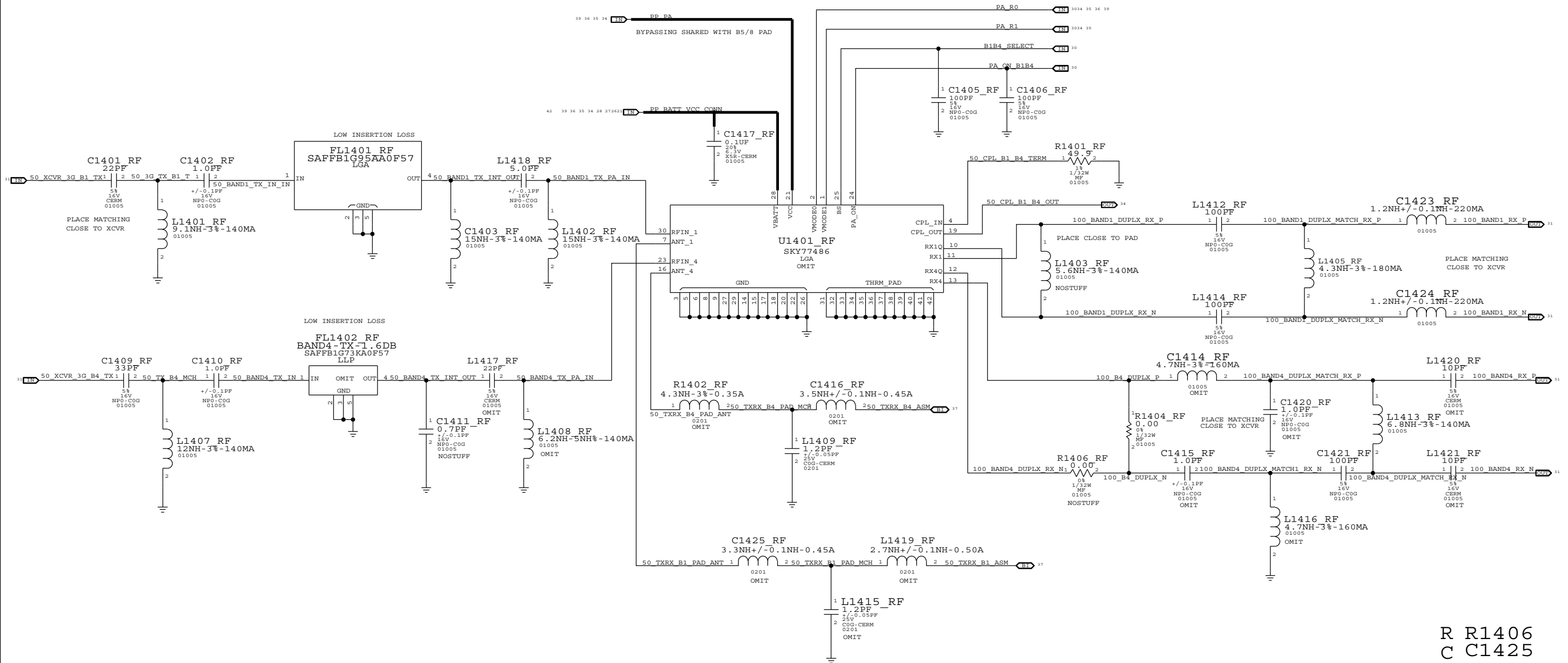


- R R1306
- C C1312
- L 1305
- U U1301
- FL FL1302


PAGE TITLE DCS RX, ASM		
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BAND 1/4 PAD

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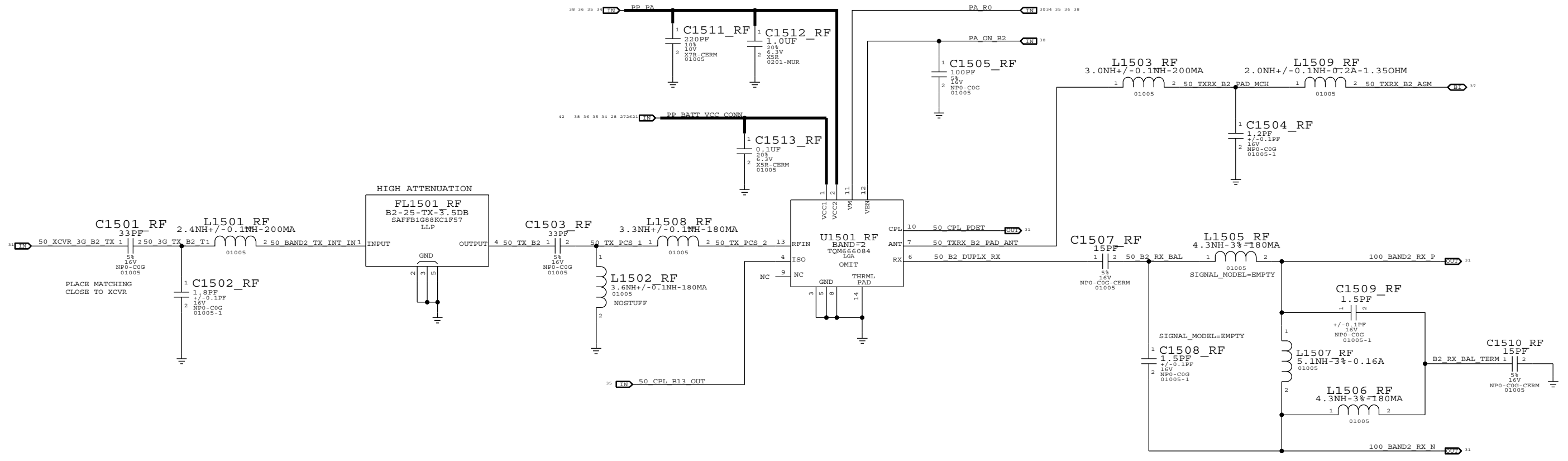


- R R1406
- C C1425
- L L1422
- U U1401
- FL FL1101


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BAND2 PAD

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- R R1501
- C C1513
- L L1509
- U U1501
- FL FL1501

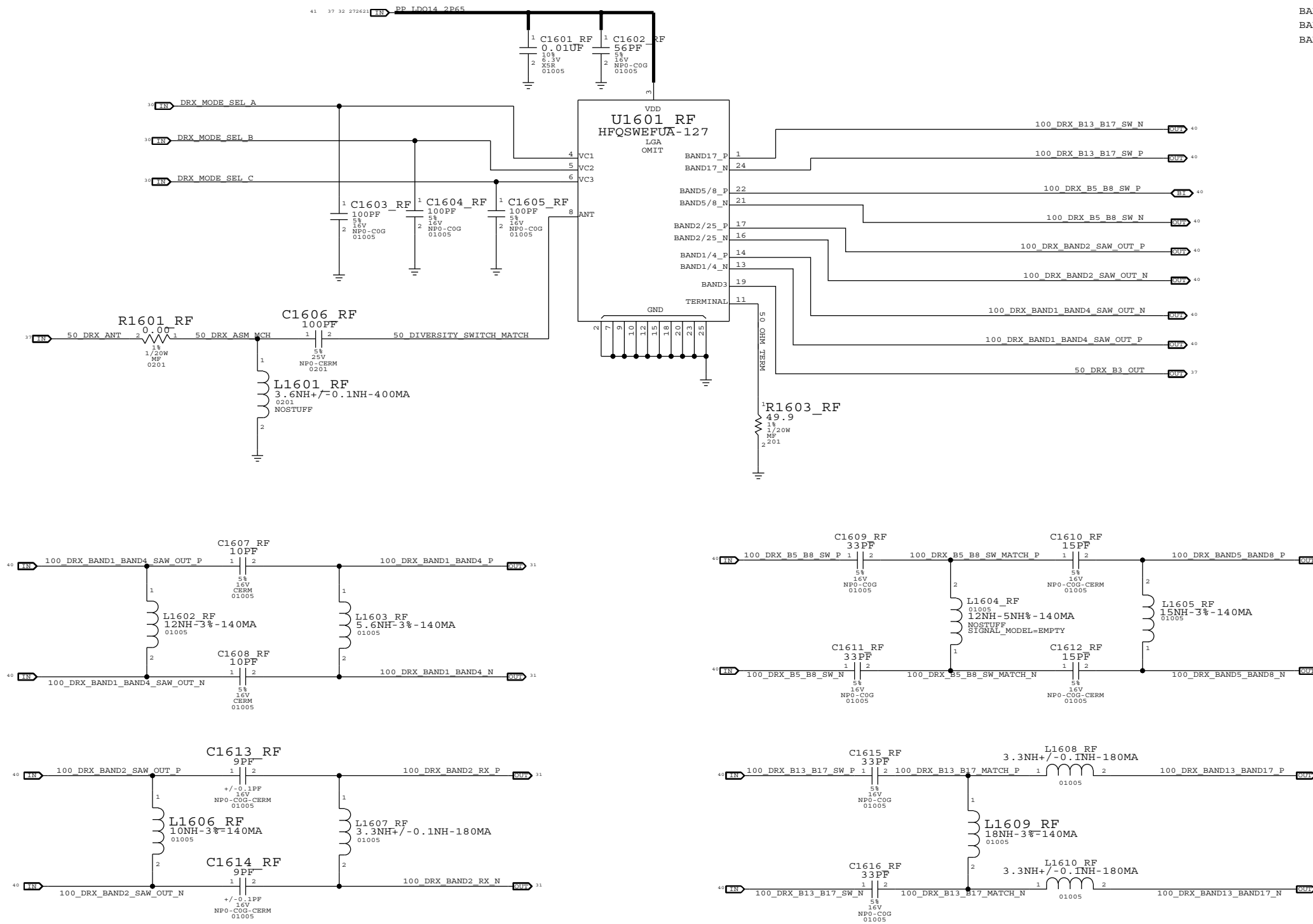
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RX DIVERSITY


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DIVERSITY MODULE LOGIC

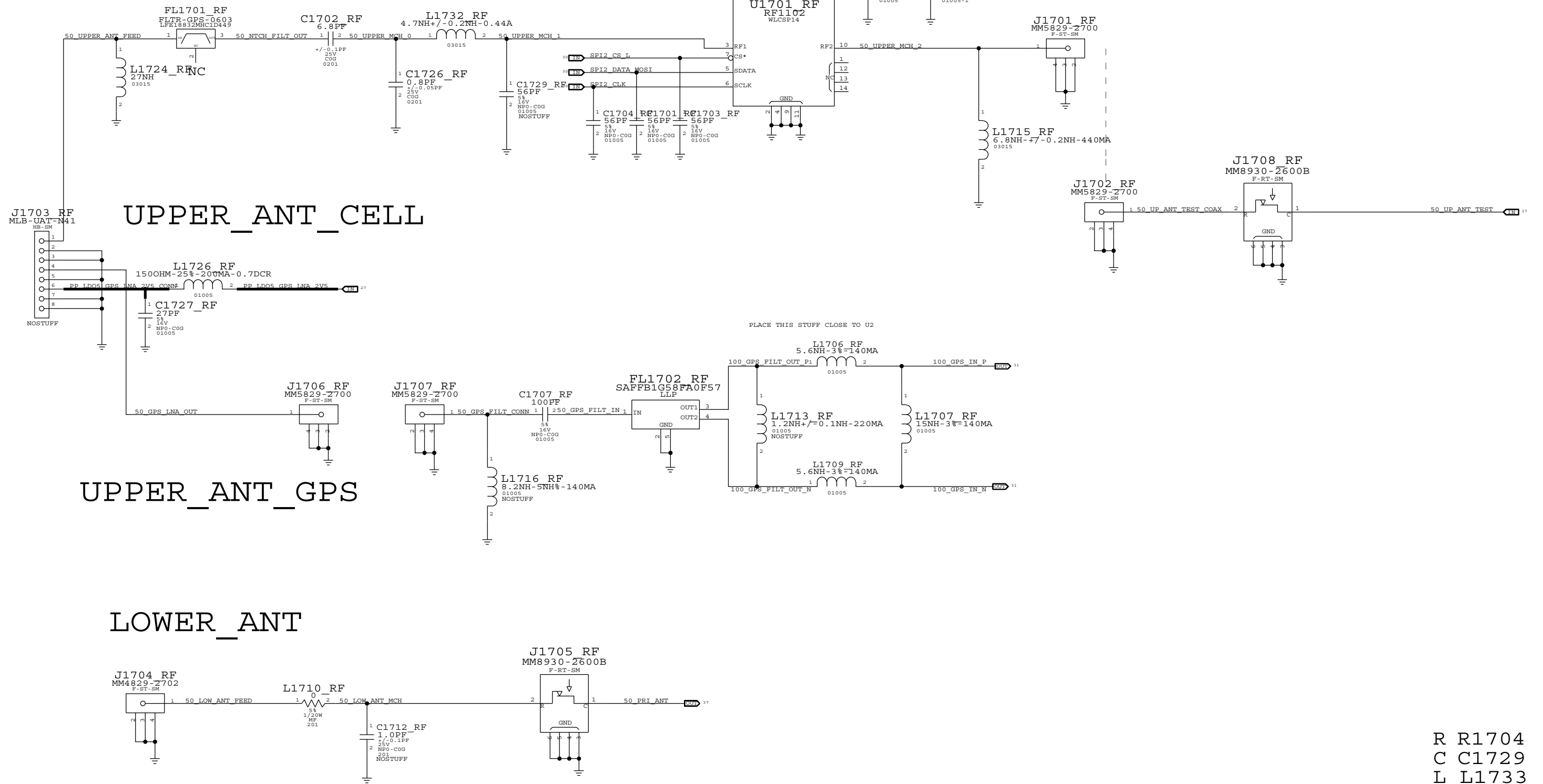
BAND	VC1	VC2	VC3
=====			
BAND 1/4			
BAND 2			
BAND 5			
BAND 8			
BAND 13/17			



R.R1603
C C1616
L L1610
U U1601

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RX DIVERSITY		
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GPS

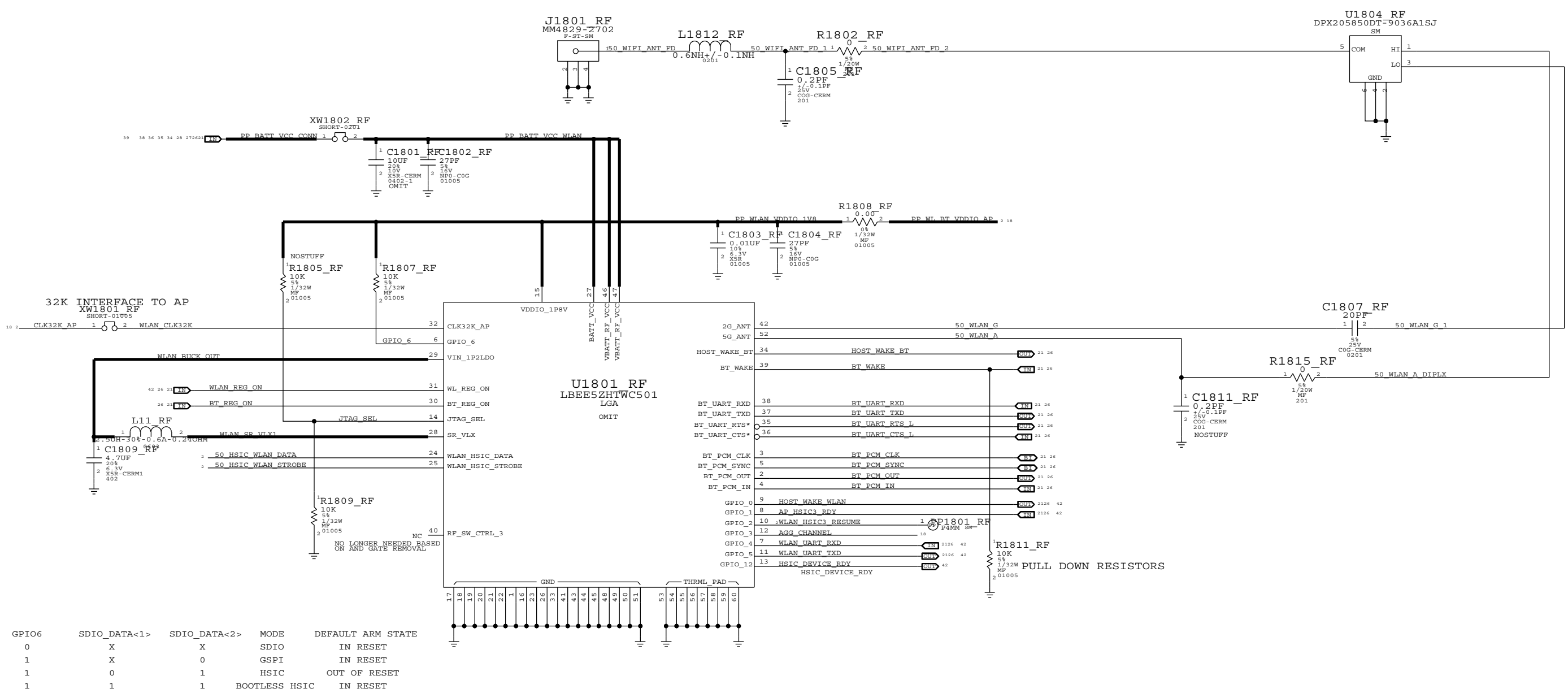


- R R1704
- C C1729
- L L1733
- U U1703

GPS		
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WLAN/BT

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GPIO6	SDIO_DATA<1>	SDIO_DATA<2>	MODE	DEFAULT ARM STATE
0	X	X	SDIO	IN RESET
1	X	0	GSPI	IN RESET
1	0	1	HSIC	OUT OF RESET
1	1	1	BOOTLESS HSIC	IN RESET

- R R1815
- C C1811
- L L1812
- U U1802
- J J1802

PAGE TITLE		
WIFI/BT		
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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
152S1570	1	4.7NH, INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	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

SINGING CAP BOM OPTIONS
NEED TO COPY FROM AP TABLE
WHEN STAN FINISHES

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 LFF	FL1302_RF	Y	B3_13
152S1656	1	3.0NH INDUCTOR	R1301_RF	Y	B3_13
117S0161	1	00HM RES	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
152S1705	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
152S1705	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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RADIO BOM OPTIONS		051-9113		D
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	8	7	6	5	4	3	2	1
D	Title: Basenet Report		90_CAMO_MIPI_DATA3_C	90_CAMO_MIPI_DATA3_CONN_P	20B4	@single_brd_lib.SINGLE_BRD		@single_brd_lib.SINGLE_BRD
	Design: single_brd		90_CAMO_MIPI_DATA3_N	@single_brd_lib.SINGLE_BRD		ADC_SMP33_MSME_IV8	26D5	BUCK0B_LXM
	Date: Apr 30 16:27:24 2012		90_CAMO_MIPI_DATA3_P	@single_brd_lib.SINGLE_BRD	7C5 20B1	@single_brd_lib.RADIO_MLB(1594_page 19)		BUCK0B_LXM
	Base nets and synonyms for single_brd_lib.SINGLE_BRD(@single_brd_lib.single_brd(sch_1))		90_CAMO_MIPI_DATA3_P	@single_brd_lib.SINGLE_BRD	7C5 20B1	ALS_INT_CONN_L	11C5	BUCK0C_FB
	Base Signal	Synonyms	Location ((Zone) [dir])			ALS_INT_L	3A7 11B8	BUCK0C_LX
	45_CAMO_CLK	45_CAMO_CLK -	7C1 20D7	90_CAM1_MIPI_CLK_CONN_N	@single_brd_lib.SINGLE_BRD	AP_HSIC1_RDY	3B7 21A4	BUCK2_FB
	45_CAMO_CLK_R	45_CAMO_CLK_R -	7C3	90_CAM1_MIPI_CLK_CONN_P	@single_brd_lib.SINGLE_BRD	AP_HSIC1_RDY	26B6 26C1 26D8 30B2	BUCK2_LXL
	45_CAM1_CLK	45_CAM1_CLK -	7C1 11D8	90_CAM1_MIPI_CLK_N	@single_brd_lib.SINGLE_BRD	AP_HSIC3_RDY	3B5 21D1	BUCK2_LXM
	45_CAM1_CLK_R	45_CAM1_CLK_R -	7C3	90_CAM1_MIPI_CLK_P	@single_brd_lib.SINGLE_BRD	AP_HSIC3_RDY	26B8 42A4 42B3	BUCK2_LXR
	45_DWI_AP_CLK	45_DWI_AP_CLK -	3D3 13A2 13B7	90_CAM1_MIPI_DATA0_C	@single_brd_lib.SINGLE_BRD	AP_WAKE_MODEM	3A7 21B4	BUCK3_FB
C	45_DWI_AP_DO	45_DWI_AP_DO -	90_CAM1_MIPI_DATA0_C	@single_brd_lib.SINGLE_BRD	BATTERY_NTC	12B7 21D5 22C8	BUCK3_LX	
	45_FMI0_DQS	45_FMI0_DQS -	90_CAM1_MIPI_DATA0_N	@single_brd_lib.SINGLE_BRD	BATTERY_NTC_CONN	21D7 21D7	BUCK4_FB	
	45_FMI0_RE_L	45_FMI0_RE_L -	90_CAM1_MIPI_DATA0_P	@single_brd_lib.SINGLE_BRD	BATTERY_SNS	12C6 21C6 22D8	BUCK4_LXL	
	45_FMI1_DQS	45_FMI1_DQS -	6B6 6B8 6C2	90_CAM1_MIPI_DATA0_P	@single_brd_lib.SINGLE_BRD	BATTERY_SNS_CONN	3A5 31B6 21D5	BUCK4_LXM
	45_FMI1_RE_L	45_FMI1_RE_L -	6B3 6B5	90_CODEC_MIKEY_N	@single_brd_lib.SINGLE_BRD	BATTERY_SWI	21C7 21D7	CAMO_I2C_SDA
	45_I2S0_BCLK	45_I2S0_BCLK -	3D4 9C2	90_CODEC_MIKEY_P	@single_brd_lib.SINGLE_BRD	BB_HSIC1_REMOTE_WAKE	3B7 21C4	CAMO_I2C_SDA_CONN
	45_I2S0_MCK_R	45_I2S0_MCK_R -	3D5	90_E_CONN_PAIR1_N	@single_brd_lib.SINGLE_BRD	BB_HSIC1_REMOTE_WAKE	26C8 30B2	CAMO_SHUTDOWN
	45_I2S0_MCLK	45_I2S0_MCLK -	3D5 9C2	90_E_CONN_PAIR1_P	@single_brd_lib.SINGLE_BRD	BB_HSIC1_REMOTE_WAKE	26C8 30B2	CAMO_SHUTDOWN_CONN
	45_I2S1_BCLK	45_I2S1_BCLK -	3D4 21C4	90_E_CONN_PAIR2_N	@single_brd_lib.SINGLE_BRD	BB_HSIC1_REMOTE_WAKE	3B7 21D1	CAMO_STROBE_EN
	45_I2S2_BCLK	45_I2S2_BCLK -	3D4 9C2 14C5	90_E_CONN_PAIR2_P	@single_brd_lib.SINGLE_BRD	BB_HSIC1_REMOTE_WAKE	26B8 26C3 29B5	CAMO_STROBE_EN_CONN
B	45_I2S2_MCK_R	45_I2S2_MCK_R -	90_LCM_MIPI_CLK_CONN_N	@single_brd_lib.SINGLE_BRD	BB_JTAG_TCK	3B7 21D1	CAMO_STROBE_EN_CONN	
	45_I2S2_MCLK	45_I2S2_MCLK -	90_LCM_MIPI_CLK_CONN_P	@single_brd_lib.SINGLE_BRD	BB_JTAG_TCK	26B8 26C3 29B5	CAMO_STROBE_NTC	
	45_I2S3_BCLK	45_I2S3_BCLK -	3C4 21B4	90_LCM_MIPI_CLK_N	@single_brd_lib.SINGLE_BRD	BB_JTAG_TDI	3B7 21D1	CAMO_STROBE_NTC_CONN
	45_I2S4_BCLK	45_I2S4_BCLK -	3C4 9C2	90_LCM_MIPI_CLK_P	@single_brd_lib.SINGLE_BRD	BB_JTAG_TDI	26B8 26C3 29B5	CAMO_TORCH
	45_PROX_RX	45_PROX_RX -	11C8 17C8	90_LCM_MIPI_DATA0_CO	@single_brd_lib.SINGLE_BRD	BB_JTAG_TDO	3B7 21D1	CAMO_VDDCORE_EN
	45_PROX_RX_CONN	45_PROX_RX_CONN -	11C5	90_LCM_MIPI_DATA0_CO	@single_brd_lib.SINGLE_BRD	BB_JTAG_TDO	26A8 26C3 29B3	CAMI_CLK_CONN
	45_XTAL_24M_I	45_XTAL_24M_I -	2C4	90_LCM_MIPI_DATA0_CO	@single_brd_lib.SINGLE_BRD	BB_JTAG_TMS	3B7 21D1	CAMI_I2C_SCL
	45_XTAL_24M_O	45_XTAL_24M_O -	2B4	90_LCM_MIPI_DATA0_P	@single_brd_lib.SINGLE_BRD	BB_JTAG_TMS	26A8 26C3 29B5	CAMI_I2C_SCL_CONN
	50_HSIC1_DATA	50_HSIC1_DATA -	2C6 21B4	90_LCM_MIPI_DATA1_CO	@single_brd_lib.SINGLE_BRD	BB_JTAG_TRST_L	3A5 21D1	CAMI_I2C_SDA
	50_HSIC1_DATA	50_HSIC1_DATA -	26B3 26D8 29B3	90_LCM_MIPI_DATA1_CO	@single_brd_lib.SINGLE_BRD	BB_JTAG_TRST_L	26A8 26C3 29B5	CAMI_I2C_SDA_CONN
A	50_HSIC1_DATA	50_HSIC1_DATA -	90_LCM_MIPI_DATA1_N	@single_brd_lib.SINGLE_BRD	BB_PP_SYNC	3A5 21C4	CAMI_SHUTDOWN	
	50_HSIC1_DATA	50_HSIC1_DATA -	90_LCM_MIPI_DATA1_P	@single_brd_lib.SINGLE_BRD	BB_PP_SYNC	26C8 30B2	CAMI_SHUTDOWN_CONN_L	
	50_HSIC1_STB	50_HSIC1_STB -	2C6 21B4	90_LCM_MIPI_DATA1_P	@single_brd_lib.SINGLE_BRD	BB_PP_SYNC	26C8 30B2	CLK32K_GRAPE_RESET_S
	50_HSIC1_STB	50_HSIC1_STB -	26B3 26C8 29B3	90_LCM_MIPI_DATA2_CO	@single_brd_lib.SINGLE_BRD	BB_RESET_DET_L	3A5 21D4	CLK32K_GRAPE_RESET_S
	50_HSIC3_DATA	50_HSIC3_DATA -	2B6 21B4	90_LCM_MIPI_DATA2_CO	@single_brd_lib.SINGLE_BRD	BB_RESET_DET_L	26C1 26D8 30B4	CLK32K_WIFI
	50_HSIC3_DATA	50_HSIC3_DATA -	26B8 42B7	90_LCM_MIPI_DATA2_CO	@single_brd_lib.SINGLE_BRD	BB_RST_L	3B7 21D4	CLK32K_WIFI
	50_HSIC3_DATA	50_HSIC3_DATA -	2B6 21B4	90_LCM_MIPI_DATA2_N	@single_brd_lib.SINGLE_BRD	BB_RST_L	26C1 26D8 28C8 29B5	CODEC_HPHONE_DET
	50_HSIC3_DATA	50_HSIC3_DATA -	26B8 42B7	90_LCM_MIPI_DATA2_P	@single_brd_lib.SINGLE_BRD	BB_RST_L	26C1 26D8 28C8 29B5	CODEC_HS3
	50_HSIC3_DATA	50_HSIC3_DATA -	2B6 21B4	90_LCM_MIPI_DATA3_CO	@single_brd_lib.SINGLE_BRD	BB_RST_L	26C1 26D8 28C8 29B5	CODEC_HS3_REF
	50_HSIC3_DATA	50_HSIC3_DATA -	26B8 42B7	90_LCM_MIPI_DATA3_CO	@single_brd_lib.SINGLE_BRD	BB_RST_PMU_L	13B7 21D4	CODEC_HS4

	8	7	6	5	4	3	2	1
	L1713_RF	IND_01005	radio_mlb[41C4]single_brd[21]	R66	RES_01005	single_brd[14C4]		
	L1715_RF	IND_03015	radio_mlb[41D3]single_brd[21]	R67	RES_01005	single_brd[28E6]		
	L1716_RF	IND_01005	radio_mlb[41B6]single_brd[21]	R68	RES_01005	single_brd[5D7]		
	L1724_RF	IND_03015	radio_mlb[41D8]single_brd[21]	R69	RES_01005	single_brd[14D2]		
	L1726_RF	FILTER_ZP_01005	radio_mlb[41C7]single_brd[21]	R70	RES_01005	single_brd[12C7]		
	L1732_RF	IND_03015	radio_mlb[41D6]single_brd[21]	R71	RES_01005	single_brd[2B3]		
	L1812_RF	IND_0201	radio_mlb[42D5]single_brd[21]	R72	RES_01005	single_brd[4D7]		
	PP1	PROBEPOINT_SM	single_brd[28E]	R73	RES_01005	single_brd[4D7]		
	PP2	PROBEPOINT_SM	single_brd[6B7]	R74	RES_01005	single_brd[6C2]		
	PP3	PROBEPOINT_SM	single_brd[6B7]	R75	RES_01005	single_brd[14D2]		
	PP4	PROBEPOINT_SM	single_brd[28E]	R76	RES_01005	single_brd[3C7]		
	PP5	PROBEPOINT_SM	single_brd[6B4]	R77	RES_01005	single_brd[5C7]		
	PP6	PROBEPOINT_SM	single_brd[6B4]	R78	RES_01005	single_brd[6C7]		
	PP7	PROBEPOINT_SM	single_brd[17C7]	R79	RES_01005	single_brd[17B5]		
	PP8	PROBEPOINT_SM	single_brd[17C7]	R80	RES_01005	single_brd[17A6]		
	PP9	PROBEPOINT_SM	single_brd[17A6]	R81	RES_01005	single_brd[8C7]		
	PP10	PROBEPOINT_SM	single_brd[6B7]	R82	RES_01005	single_brd[6C6]		
	PP11	PROBEPOINT_SM	single_brd[17B7]	R83	RES_01005	single_brd[15C7]		
	PP14	PROBEPOINT_SM	single_brd[3D2]	R84	RES_01005	single_brd[15B7]		
	PP16	PROBEPOINT_SM	single_brd[3D2]	R85	RES_01005	single_brd[11B3]		
	PP18	PROBEPOINT_SM	single_brd[17B1]	R86	RES_01005	single_brd[17C5]		
	PP101_RF	PROBEPOINT_SM	radio_mlb[26C6]single_brd[21]	R87	RES_01005	single_brd[13C2]		
	PP102_RF	PROBEPOINT_SM	radio_mlb[42A4]single_brd[21]	R88	RES_01005	single_brd[15B3]		
	PP103_RF	PROBEPOINT_SM	radio_mlb[26B6]single_brd[21]	R89	RES_01005	single_brd[18C6]		
	PP104_RF	PROBEPOINT_SM	radio_mlb[26B6]single_brd[21]	R90	THERMISTER_0201	single_brd[12A4]		
	PP105_RF	PROBEPOINT_SM	radio_mlb[26B6]single_brd[21]	R91	RES_01005	single_brd[19A5]		
	PP106_RF	PROBEPOINT_SM	radio_mlb[26C6]single_brd[21]	R92	RES_01005	single_brd[12B3]		
	PP107_RF	PROBEPOINT_SM	radio_mlb[26C6]single_brd[21]	R93	RES_01005	single_brd[3D2]		
	PP113_RF	PROBEPOINT_SM	radio_mlb[26B5]single_brd[21]	R94	RES_01005	single_brd[22B4]		
	PP114_RF	PROBEPOINT_SM	radio_mlb[26B5]single_brd[21]	R95	RES_01005	single_brd[17A7]		
	PP301_RF	PROBEPOINT_SM	radio_mlb[28B3]single_brd[21]	R96	RES_01005	single_brd[14C6]		
	PP302_RF	PROBEPOINT_SM	radio_mlb[28B3]single_brd[21]	R100	RES_01005	single_brd[10B6]		
	PP1801_RF	PROBEPOINT_SM	radio_mlb[42B4]single_brd[21]	R101	RES_01005	single_brd[10B4]		
	PP1802_RF	PROBEPOINT_SM	radio_mlb[42A3]single_brd[21]	R102	RES_01005	single_brd[10C2]		
	PP1803_RF	PROBEPOINT_SM	radio_mlb[42A3]single_brd[21]	R103	RES_01005	single_brd[10C2]		
	PP1804_RF	PROBEPOINT_SM	radio_mlb[42A3]single_brd[21]	R104	RES_01005	single_brd[10A4]		
	PP1805_RF	PROBEPOINT_SM	radio_mlb[42A3]single_brd[21]	R104_RF	RES_01005	radio_mlb[26A5]single_brd[21]		
	PP1806_RF	PROBEPOINT_SM	radio_mlb[42A3]single_brd[21]	R105_RF	RES_01005	radio_mlb[26A5]single_brd[21]		
	PP1807_RF	PROBEPOINT_SM	radio_mlb[42A3]single_brd[21]	R107	RES_01005	single_brd[16D7]		
	Q1	TRA_MOSFET_NCHN_3P3	single_brd[11B3]	R108	THERMISTER_0201	single_brd[12A8]		
	Q2	TRA_DUAL_CMNSTR_CCH_9P_CSP	single_brd[16B7 16B6]	R109	RES_0201	single_brd[12B8]		
	Q3	TRA_MOSFET_PCHN_3P9	single_brd[19B4]	R110	THERMISTER_0201	single_brd[12A7]		
	Q4	TRA_MOSFET_PCHN_9P_B	single_brd[12C8]	R111	RES_01005	single_brd[15C3]		
	Q5	TRA_MOSFET_NCHN_6P3	single_brd[12D5]	R112	RES_01005	single_brd[13B6]		
	Q6	TRA_MOSFET_NCHN_6P3	single_brd[12D2]	R113	RES_01005	single_brd[13B6]		
	Q7	TRA_MOSFET_NCHN_3P11	single_brd[19B3]	R114	RES_01005	single_brd[13B6]		
	Q8	TRA_MOSFET_NCHN_3P3	single_brd[8C6]	R115	RES_01005	single_brd[13D2]		
	Q9	TRA_MOSFET_NCHN_4P5	single_brd[17A6]	R116	RES_201	single_brd[13D4]		
	Q10	TRA_MOSFET_NCHN_3P11	single_brd[19B7]	R117	RES_01005	single_brd[8C7]		
	R1	RES_01005	single_brd[2D7]	R118	RES_01005	single_brd[8C6]		
	R2	RES_01005	single_brd[17B1]	R119	RES_01005	single_brd[16B3]		
	R3	RES_01005	single_brd[11A7]	R120	RES_01005	single_brd[17D1]		
	R4	RES_01005	single_brd[13D5]	R121	RES_201	single_brd[14C3]		
	R5	RES_01005	single_brd[3D5]	R122	RES_01005	single_brd[19A7]		
	R6	RES_01005	single_brd[2B3]	R123	RES_01005	single_brd[11C7]		
	R7	RES_01005	single_brd[2C3]	R124	RES_01005	single_brd[10D3]		
	R8	RES_01005	single_brd[6B2]	R125	RES_01005	single_brd[16C2]		
	R9	RES_01005	single_brd[11A7]	R126	RES_01005	single_brd[16C2]		
	R10	RES_01005	single_brd[16D2]	R127	RES_01005	single_brd[16C2]		
	R11	RES_01005	single_brd[10D2]	R128	RES_01005	single_brd[16B7]		
	R12	RES_01005	single_brd[3C7]	R129	RES_01005	single_brd[17B7]		
	R13	RES_01005	single_brd[8C7]	R130	RES_01005	single_brd[6C5]		
	R14	RES_01005	single_brd[11B2]	R131	RES_01005	single_brd[20C5]		
	R15	RES_01005	single_brd[11B2]	R132	RES_01005	single_brd[6C5]		
	R16	RES_01005	single_brd[3D5]	R133	RES_01005	single_brd[9B3]		
	R17	RES_01005	single_brd[3D3]	R134	RES_01005	single_brd[10A7]		
	R18	RES_01005	single_brd[3D3]	R135	RES_01005	single_brd[10B7]		
	R19	RES_01005	single_brd[3D3]	R136	RES_01005	single_brd[10B3]		
	R20	RES_01005	single_brd[3A4]	R137	RES_01005	radio_mlb[28D4]single_brd[21]		
	R21	RES_01005	single_brd[3D2]	R138	RES_01005	radio_mlb[28D3]single_brd[21]		
	R22	RES_01005	single_brd[3A4]	R139	RES_01005	radio_mlb[28D4]single_brd[21]		
	R23	RES_01005	single_brd[16D2]	R140	RES_01005	radio_mlb[28D3]single_brd[21]		
	R24	RES_01005	single_brd[13A6]	R141	RES_01005	radio_mlb[28B4]single_brd[21]		
	R25	RES_01005	single_brd[13D5]	R142	RES_01005	radio_mlb[28B2]single_brd[21]		
	R26	RES_01005	single_brd[17C7]	R143	RES_01005	radio_mlb[28C7]single_brd[21]		
	R27	RES_01005	single_brd[4A4]	R144	RES_01005	radio_mlb[28C7]single_brd[21]		
	R28	RES_01005	single_brd[4A8]	R145	RES_01005	radio_mlb[28C8]single_brd[21]		
	R29	RES_01005	single_brd[4A6]	R146	RES_01005	radio_mlb[28C8]single_brd[21]		
	R30	RES_01005	single_brd[4A6]	R147	RES_01005	radio_mlb[29A5]single_brd[21]		
	R31	RES_01005	single_brd[4A5]	R148	RES_01005	radio_mlb[29B2]single_brd[21]		
	R32	RES_01005	single_brd[4A5]	R149	RES_01005	radio_mlb[29A4]single_brd[21]		
	R33	RES_01005	single_brd[4A4]	R150	RES_01005	radio_mlb[29B4]single_brd[21]		
	R34	RES_01005	single_brd[4A4]	R151	RES_01005	radio_mlb[29B6]single_brd[21]		
	R35	RES_201	single_brd[14C4]	R152	RES_01005	radio_mlb[30C4]single_brd[21]		
	R36	RES_01005	single_brd[17A2]	R153	RES_01005	radio_mlb[30A4]single_brd[21]		
	R37	RES_01005	single_brd[7D2]	R154	RES_01005	radio_mlb[30A3]single_brd[21]		
	R38	RES_01005	single_brd[7C2]	R155	RES_01005	radio_mlb[29D1]single_brd[21]		
	R39	RES_01005	single_brd[7D2]	R156	RES_01005	radio_mlb[31D7]single_brd[21]		
	R40	RES_01005	single_brd[7C2]	R157	RES_01005	radio_mlb[31C8]single_brd[21]		
	R41	RES_01005	single_brd[7D2]	R158	RES_01005	radio_mlb[31D8]single_brd[21]		
	R42	RES_01005	single_brd[7D2]	R159	RES_01005	radio_mlb[31C7]single_brd[21]		
	R43	RES_201	single_brd[15C7]	R160	RES_01005	radio_mlb[34B2]single_brd[21]		
	R44	RES_201	single_brd[15C7]	R161	RES_01005	radio_mlb[35C7]single_brd[21]		
	R45	RES_201	single_brd[11C3]	R162	RES_01005	radio_mlb[35C8]single_brd[21]		
	R46	RES_01005	single_brd[18B2]	R163	RES_01005	radio_mlb[36B3]single_brd[21]		
	R47	RES_01005	single_brd[18A5]	R164	RES_01005	radio_mlb[37B5]single_brd[21]		
	R48	RES_01005	single_brd[18A5]	R165	RES_01005	radio_mlb[37B2]single_brd[21]		
	R49	RES_01005	single_brd[18A5]	R166	RES_01005	radio_mlb[37B5]single_brd[21]		
	R50	RES_01005	single_brd[8B3]	R167	RES_01005	radio_mlb[37B3]single_brd[21]		
	R51	RES_01005	single_brd[8B3]	R168	RES_01005	radio_mlb[37B6]single_brd[21]		
	R52	RES_01005	single_brd[3B8]	R169	RES_01005	radio_mlb[38C3]single_brd[21]		
	R53	RES_01005	single_brd[19A3]	R170	RES_01005	radio_mlb[38B5]single_brd[21]		
	R54	RES_01005	single_brd[19A4]	R171	RES_01005	radio_mlb[38B3]single_brd[21]		
	R55	RES_01005	single_brd[19A5]	R172	RES_01005	radio_mlb[38B3]single_brd[21]		
	R56	RES_01005	single_brd[19B2]	R173	RES_01005	radio_mlb[40C6]single_brd[21]		
	R57	THERMISTER_0201	single_brd[12A5]	R174	RES_01005	radio_mlb[40C4]single_brd[21]		
	R58	RES_201	single_brd[16B6]	R175	RES_01005	radio_mlb[42D4]single_brd[21]		
	R59	RES_201	single_brd[16B6]	R176	RES_01005	radio_mlb[42C7]single_brd[21]		
	R60	RES_01005	single_brd[18B2]	R177	RES_01005	radio_mlb[42C6]single_brd[21]		
	R61	RES_01005	single_brd[18A5]	R178	RES_01005	radio_mlb[42C4]single_brd[21]		
	R62	RES_01005	single_brd[18A5]	R179	RES_01005	radio_mlb[42B7]single_brd[21]		
	R63	RES_01005	single_brd[19C7]	R180	RES_01005	radio_mlb[42B4]single_brd[21]		
	R64	RES_01005	single_brd[14D4]	R181	RES_01005	radio_mlb[42B4]single_brd[21]		
	R65	RES_01005	single_brd[13C2]	R182	RES_01005	radio_mlb[42A7]single_brd[21]		
				R183	RES_01005	radio_mlb[42A7]single_brd[21]		
				R184	RES_01005	radio_mlb[42A5]single_brd[21]		
				R185	RES_201	radio_mlb[42C2]single_brd[21]		
				SH1	SHLD_1P_SM	single_brd[21C6]		
				SH2	SHLD_1P_SM	single_brd[21B6]		
				SH3	SHLD_1P_SM	single_brd[21B6]		
				SH4	SHLD_1P_SM	single_brd[21B6]		
				TP1	TP_TP-P6	single_brd[22D7]		
				TP2	TP_TP-P6	single_brd[22D7]		
				TP3	TP_TP-P6	single_brd[22D7]		
				TP4	TP_TP-P6	single_brd[22D7]		
				TP5	TP_TP-P6	single_brd[22C7]		
				TP6	TP_TP-P6	single_brd[22C7]		
				TP7	TP_TP-P6	single_brd[22C7]		
				TP8	TP_TP-P6	single_brd[22B7]		
				TP9	TP_TP-P6	single_brd[22B7]		
				TP10	TP_TP-P6	single_brd[22B4]		