

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
16	0001519661	ENGINEERING RELEASED		2012-07-02

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

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_DWJG	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 N41 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

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	?	?	74LVCI032 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
127S0162	127S0160	?	?	VISHAY 1.0UF TANT
127S0164	127S0160	?	?	ROHM 1.0UF TANT
376S1120	376S0774	?	?	DIODES INC FET
376S1060	376S0882	?	?	DIODES INC FET

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	?

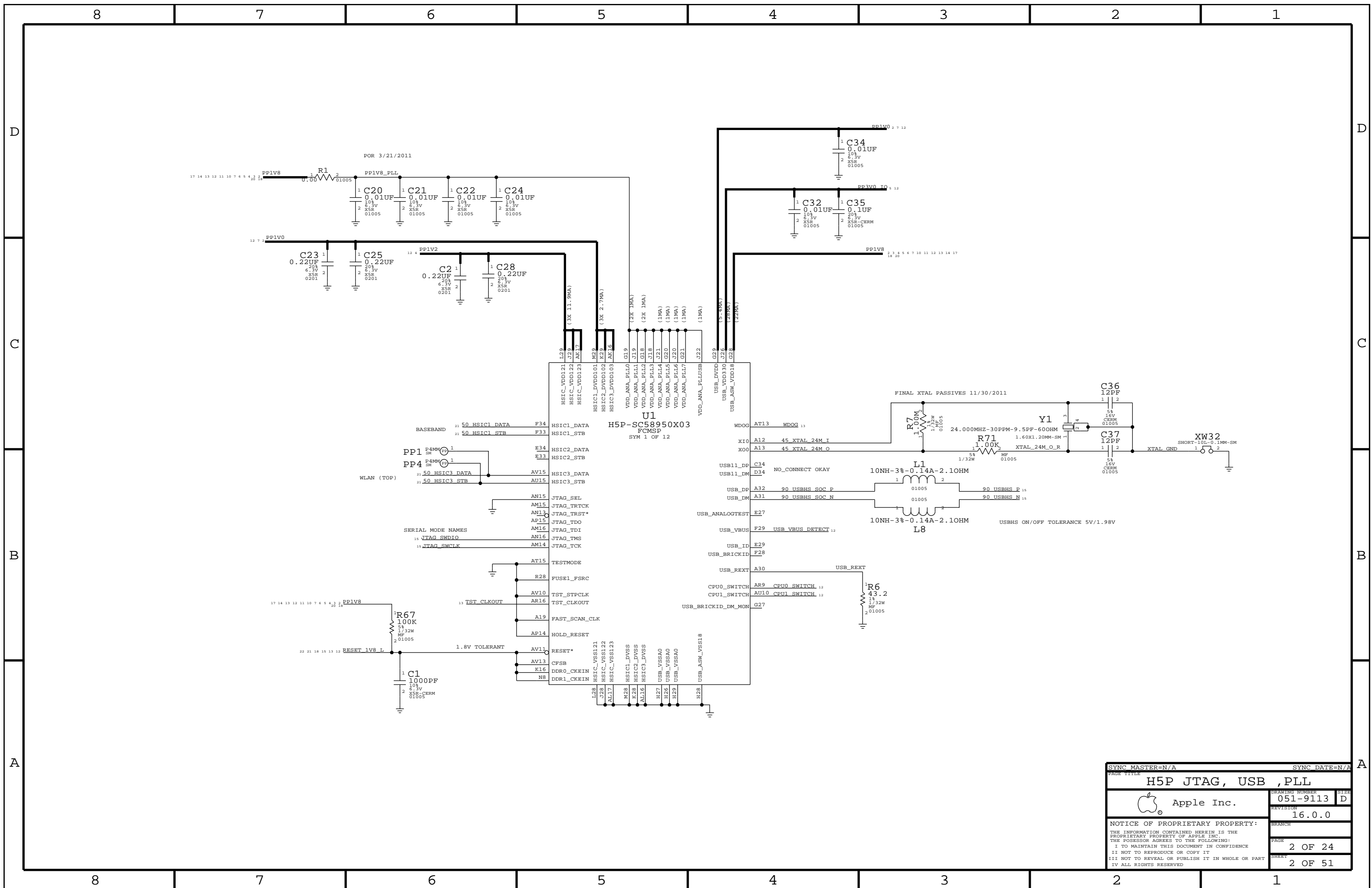
SCH 051-9113
 BRD 820-3141
 MCO 056-5192
 BOM 639-3259 (16GB) BTR N41
 BOM 639-3420 (32GB) BST N41
 BOM 639-3421 (64GB) ULT N41
 BOM 639-2456 (16GB) BTR N42
 BOM 639-3858 (32GB) BST N42
 BOM 639-3839 (64GB) ULT N42
 BOM 639-4085 (16GB) BTR N42
 BOM 639-4084 (32GB) BST N42
 BOM 639-4083 (64GB) ULT N42

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	RAKON 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

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Apple Inc.	DRAWING NUMBER	051-9113	SIZE D
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ANY QUESTIONS? EMAIL STAN RABU OR CRAIG BIRRELL



SYNC MASTER=N/A		SYNC DATE=N/A	
H5P JTAG, USB, PLL			
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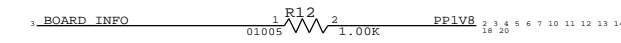
BOARD_REV[3:0]={EHCI_PORT3,EHCI_PORT_PWR2,EHCI_PORT_PWR1,EHCI_PORT_PWR0}

FLOAT=LOW, PULLUP=HIGH
1111 DEV3
1110 PROTO 0, DEV4 & DEV5
1100 PROTO 2A
1010 PROTO 2B TRISTAR / PROTO_2C LM3534
1000 PROTO 3, DEV7
1001 EVT1
1000 EVT2, DOE1/2/3/4/5/6/7/8/9
0110 EVT3, DOE10/11/15/20/21
0100 EVT5 PVT <--- SELECTED

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

FLOAT=LOW, PULLUP=HIGH
0000 SPI0
0001 SPI3
0010 SPI0 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



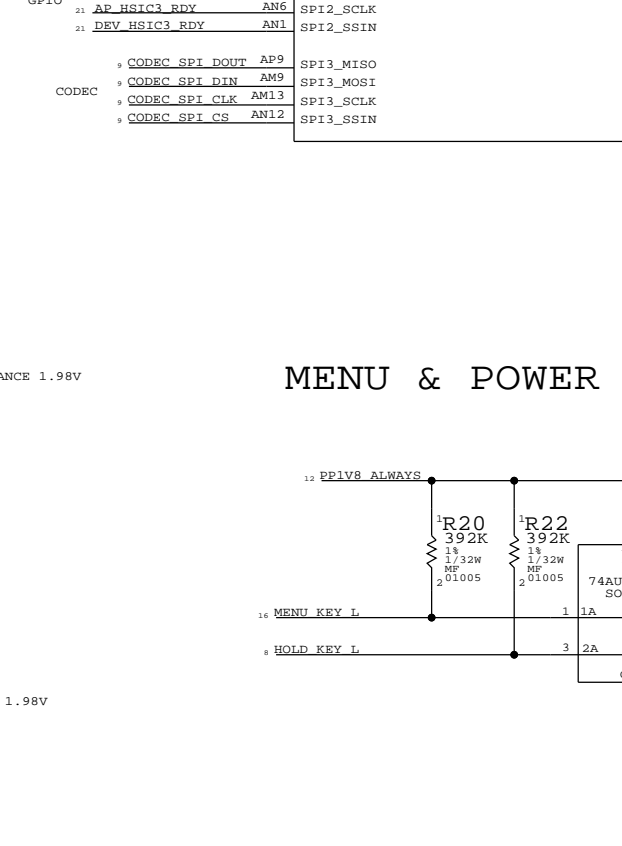
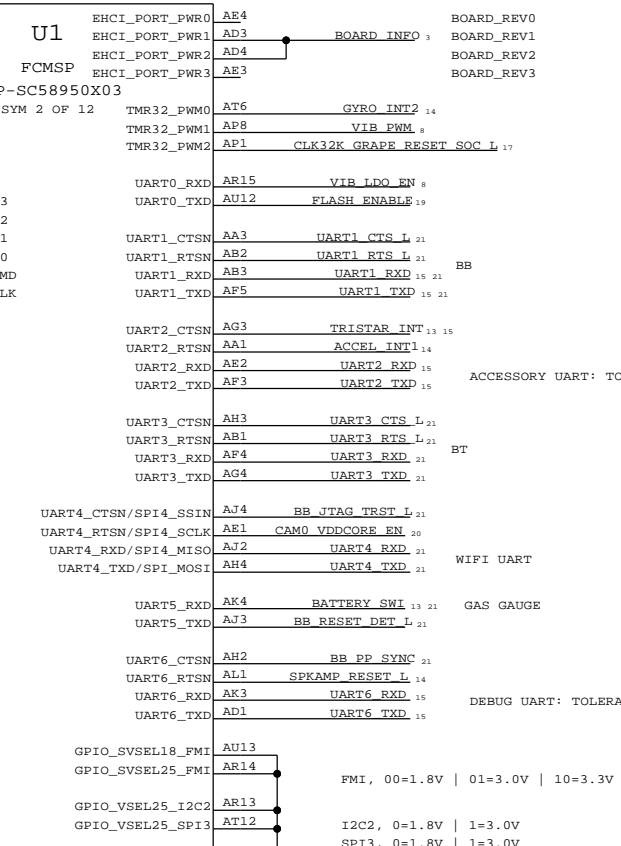
BOMOPTION=B3_13 (N42 BOM)



(OPEN DRAIN@PMU) NEW --->

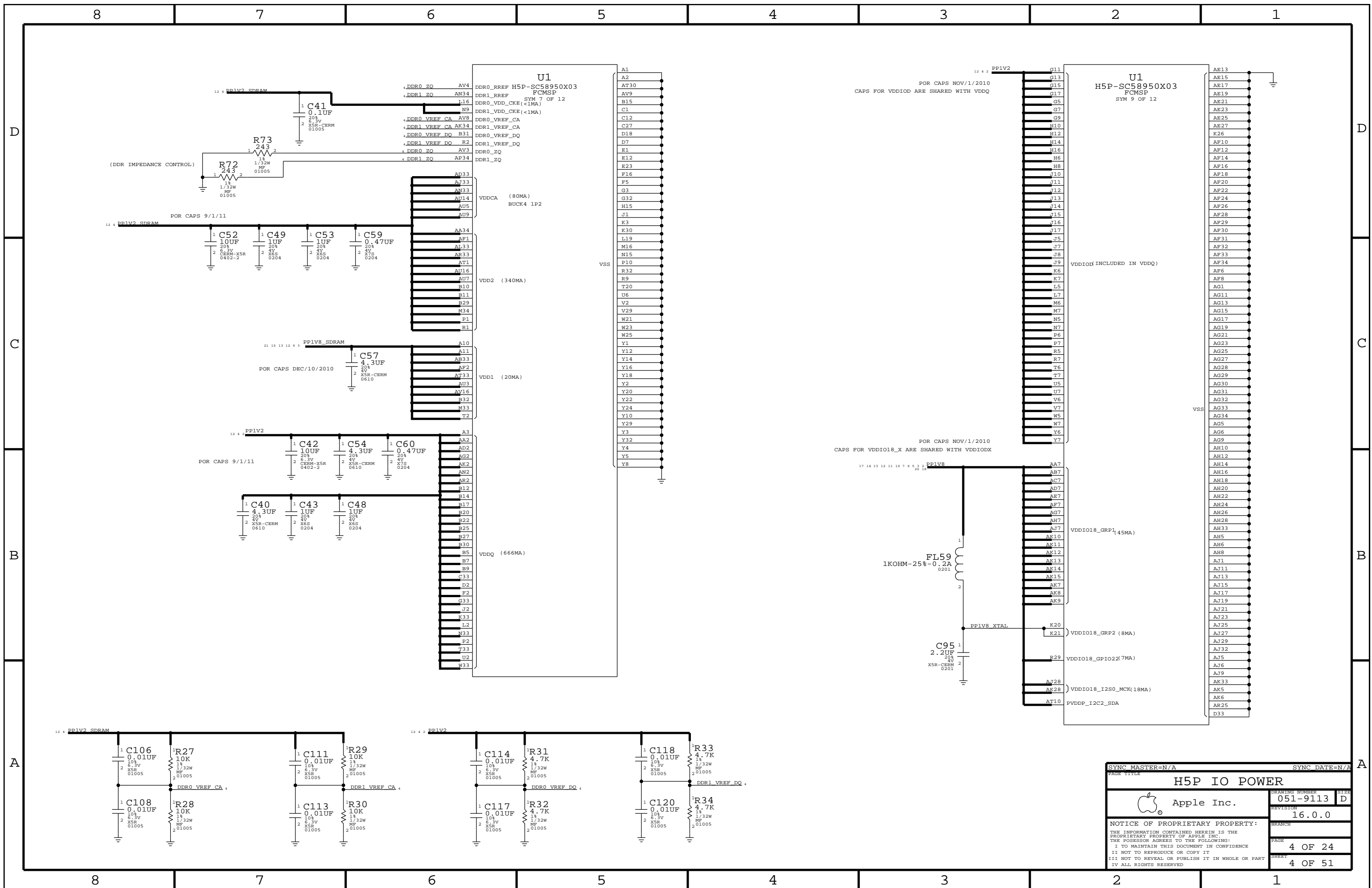
L19A KEEP (STAYING) ALIVE --->

Table mapping board signals to GPIO pins. Signals include MENU KEY BUFF L, HOLD KEY BUFF L, VOL UP L, VOL DWN L, SPKAMP INT L, PMU IRO L, BT WAKE, BEE GEEES, BB HSIC1 REMOTE WAKE, BB JTAG TCK, BB JTAG TDI, BB JTAG TMS, BB JTAG TDO, AP HSIC1 RDY, KEEPACT, WLAN HSIC3 RESUME, GRAPE INT L, LCD RESET L, LCD HIFA BSYNC, BB RST L, FORCE DFU, BOARD INFO, CODEC INT L, PBL RUN BB HSIC1 RDY, RADIO ON L, GYRO INT1, COMPASS INT 2, AP WAKE MODEM, ACCEL INT2 L, ALS INT L, GRAPE RESET L, HS3 CONTROL, HS4 CONTROL.

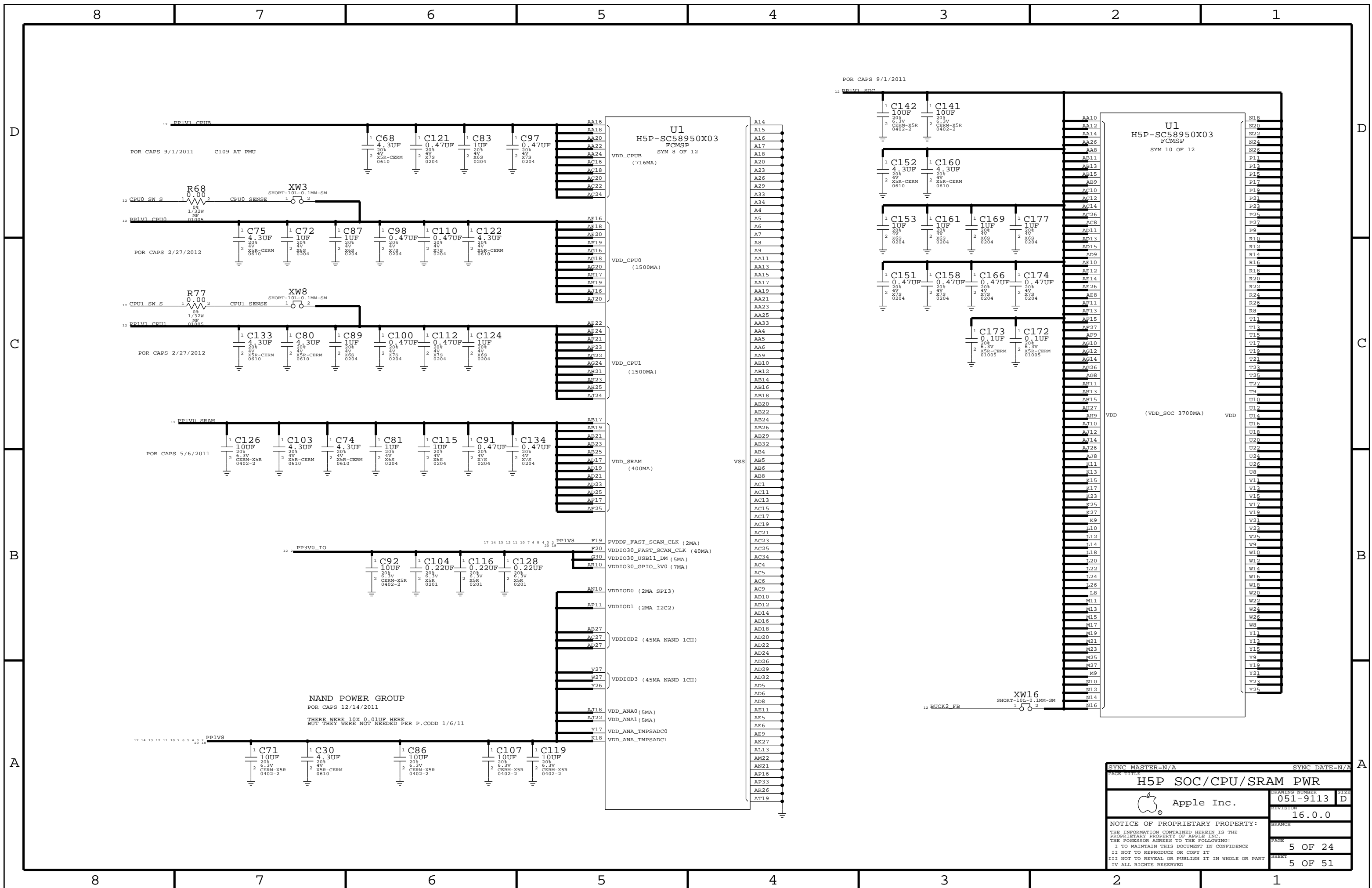


MENU & POWER / HOLD KEY

Table with metadata: SYNC MASTER=N/A, SYNC DATE=N/A, H5P GPIO & CONTROL, Apple Inc., DRAWING NUMBER 051-9113, REVISION 16.0.0, NOTICE OF PROPRIETARY PROPERTY, THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE I NOT TO REPRODUCE OR COPY IT I NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED, DRAWING NUMBER 051-9113, REVISION 16.0.0, PAGE 3 OF 24, SHEET 3 OF 51.



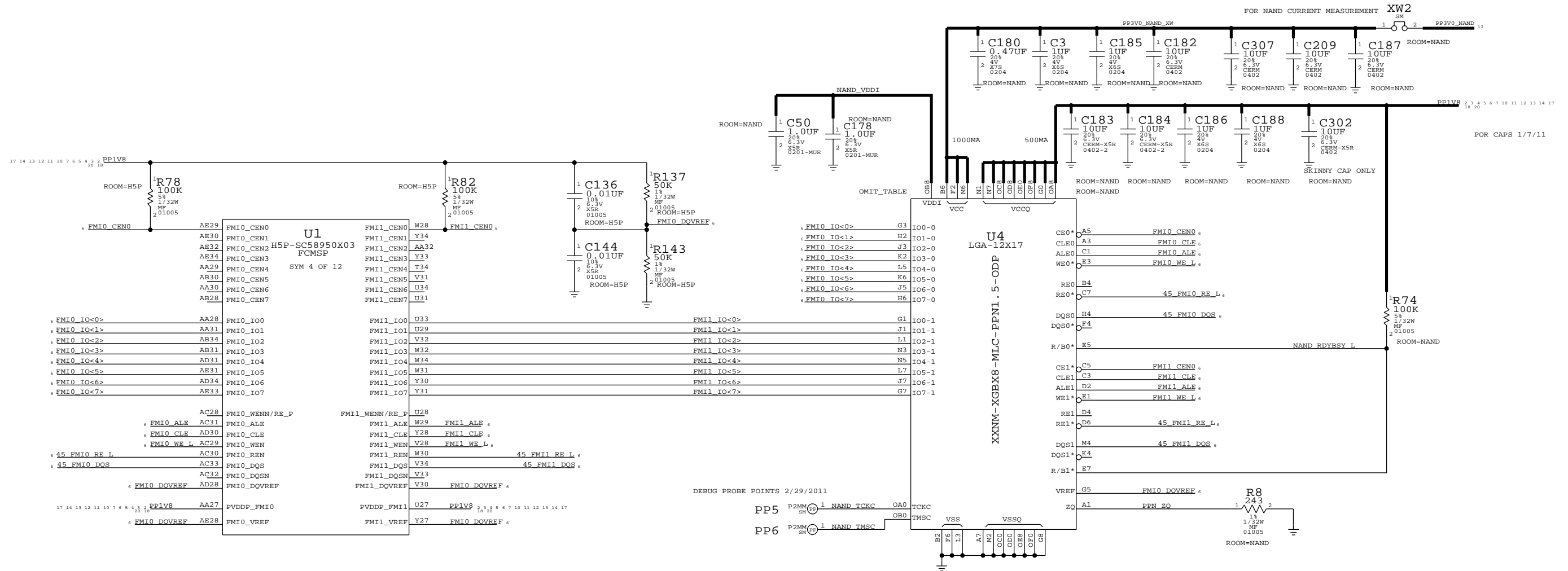
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H5P IO POWER			
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H5P SOC/CPU/SRAM PWR			
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NAND

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

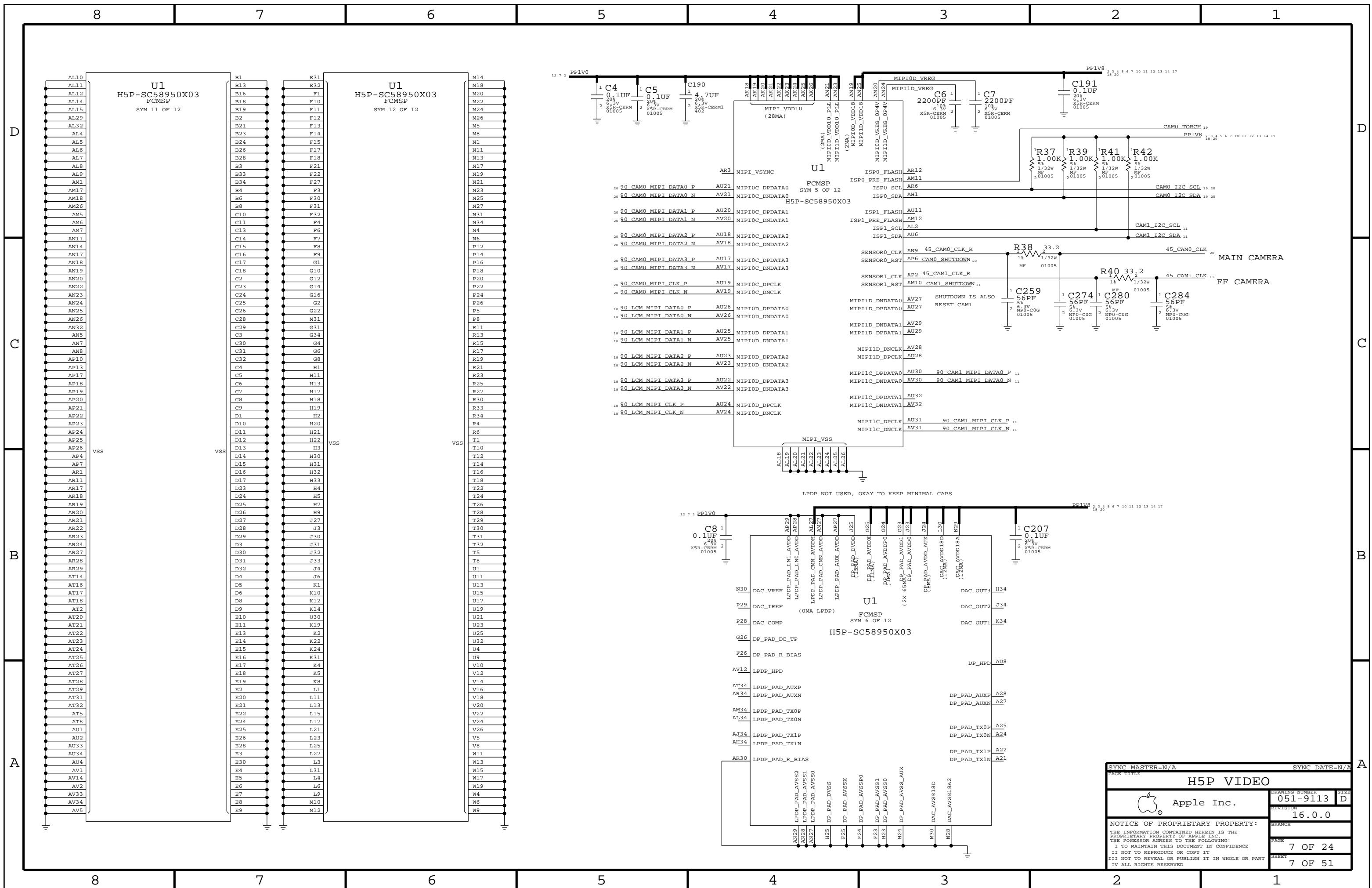


DEBUG PROBE POINTS 2/29/2011

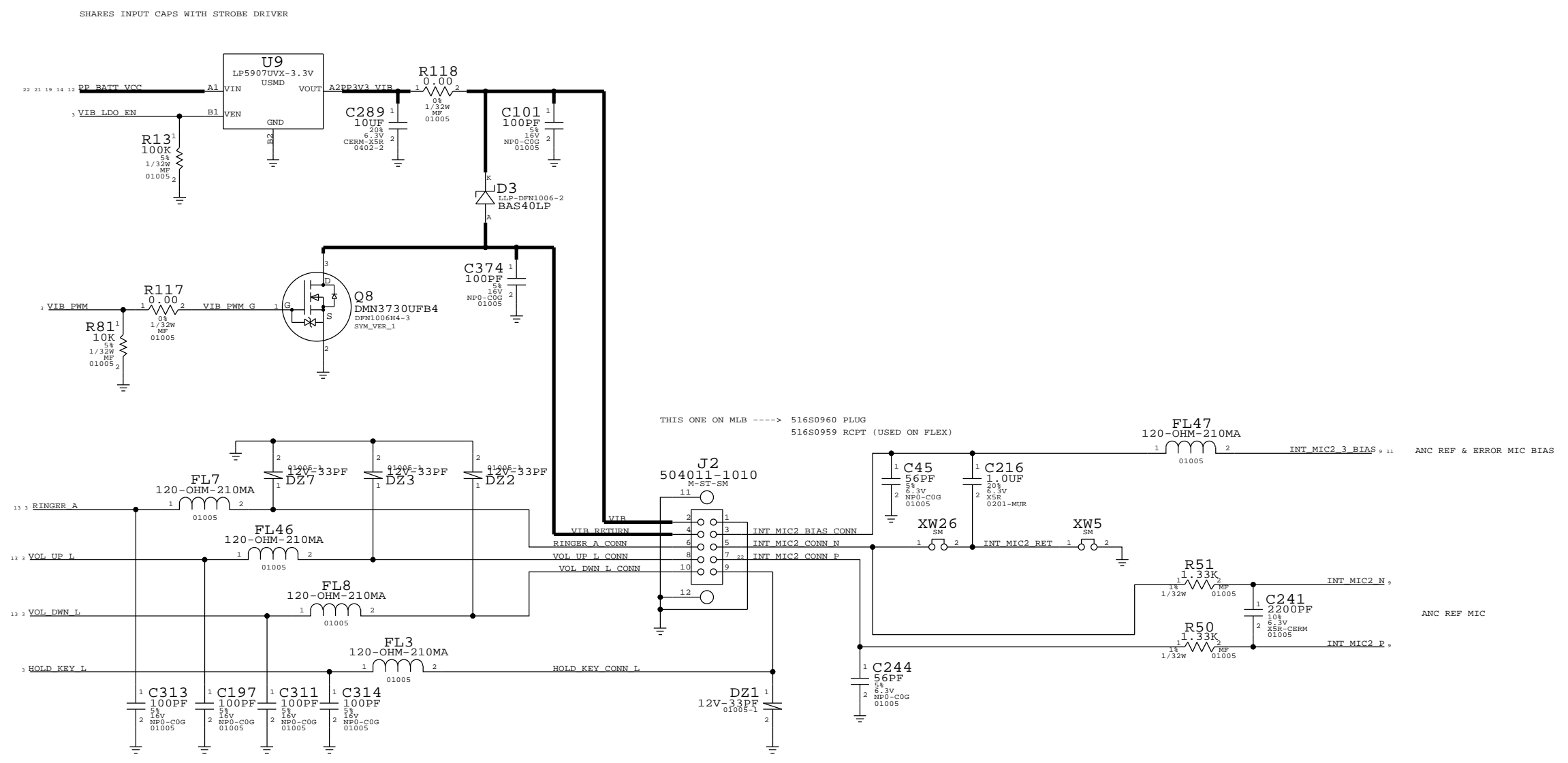
NOTE: NAND PADS SHOULD BE SHIELDED FROM TRACES WITH A GROUND PLANE

- PP2 P4MM SH 1 FMI0 IO<0>
- PP3 P4MM SH 1 45 FMI0 RE L
- PP10 P4MM SH 1 45 FMI0 DQS

SYNC MASTER=N/A		SYNC DATE=N/A	
H5P W/ NAND			
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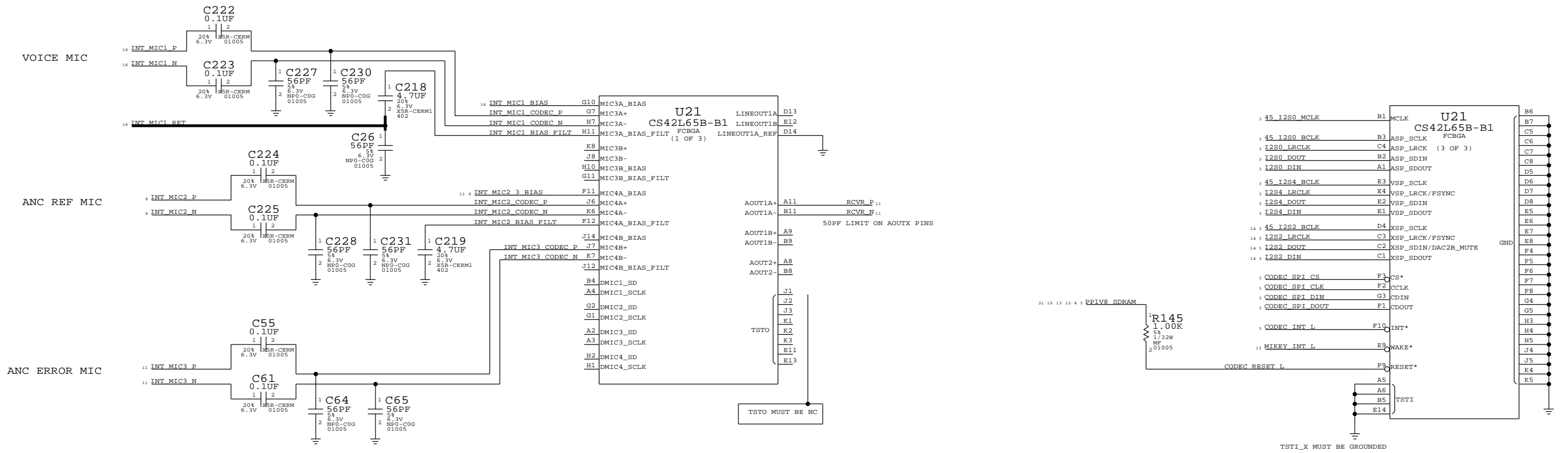


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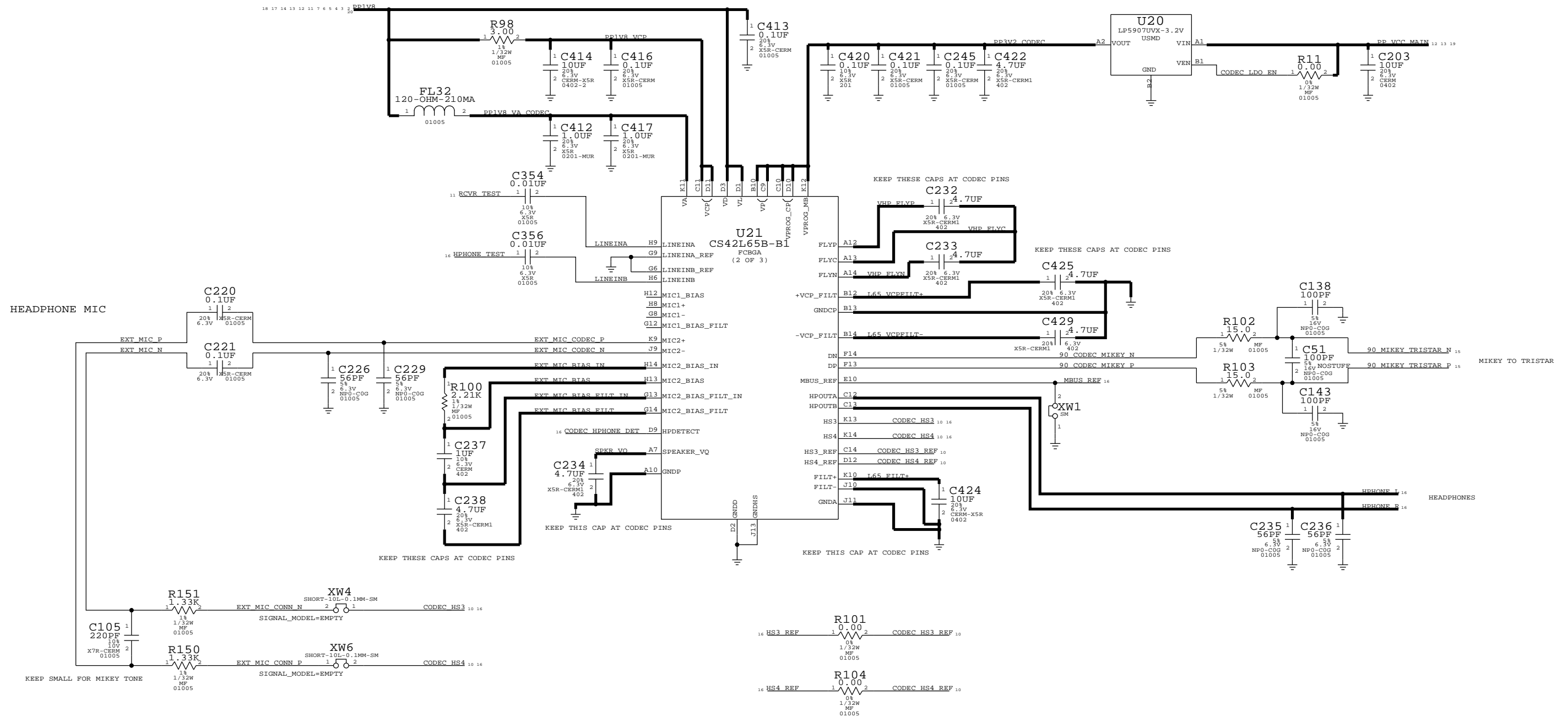
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BUTTON CONNECTOR			
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CS42L65 AUDIO CODEC

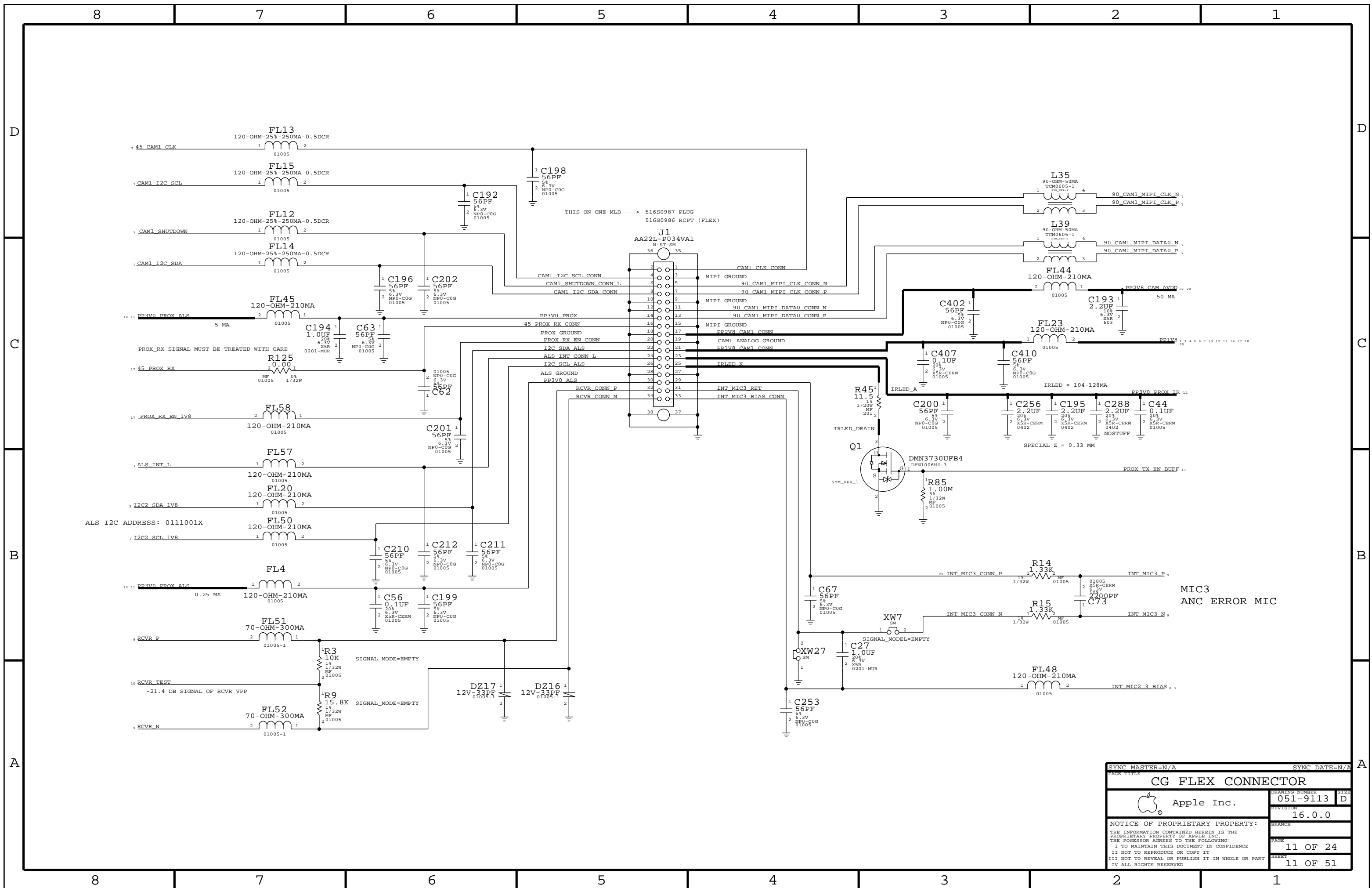


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CS42L65 AUDIO CODEC (1/2)			
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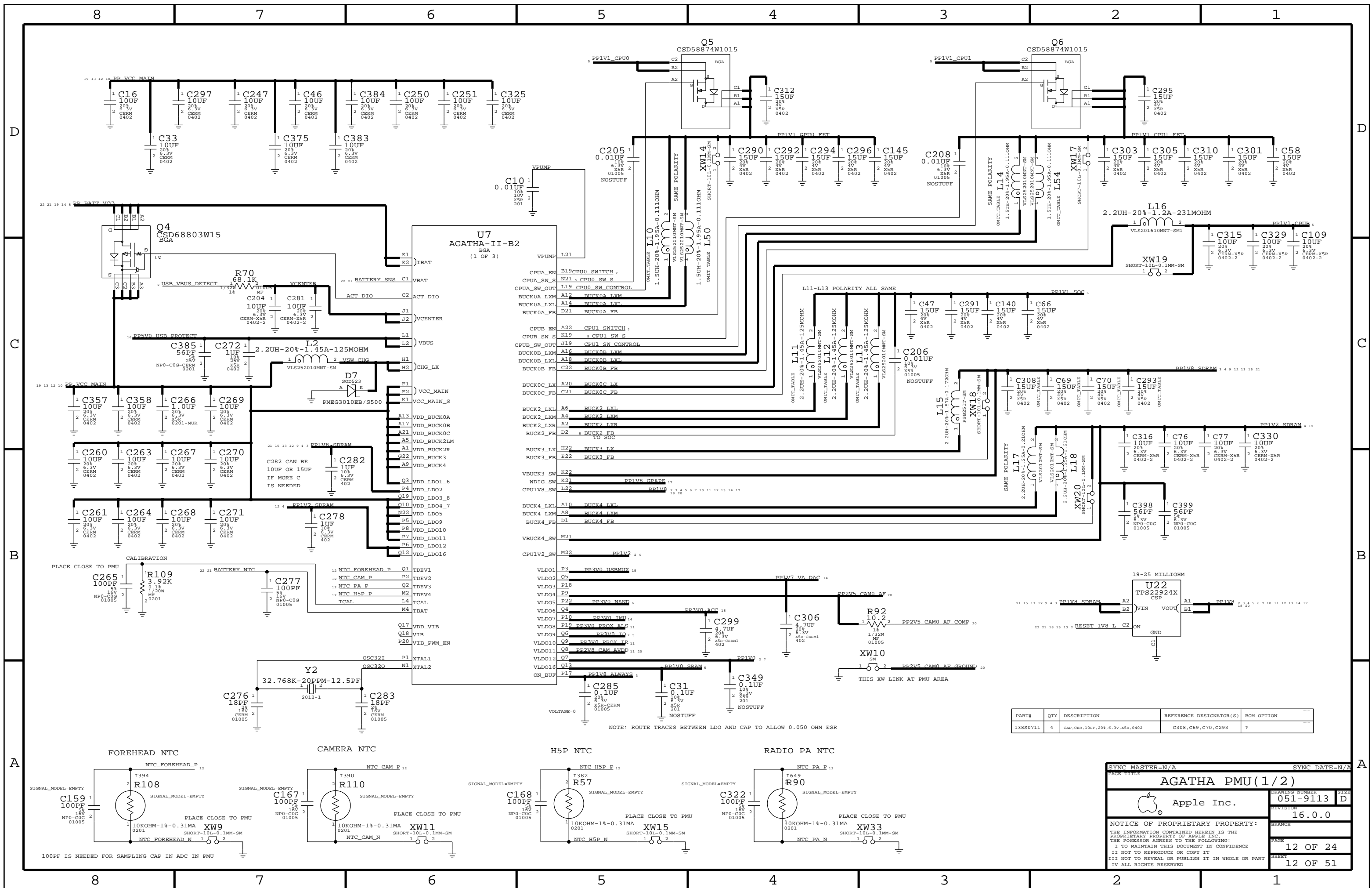
CS42L65 AUDIO CODEC



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CS42L65 AUDIO CODEC (2/2)			
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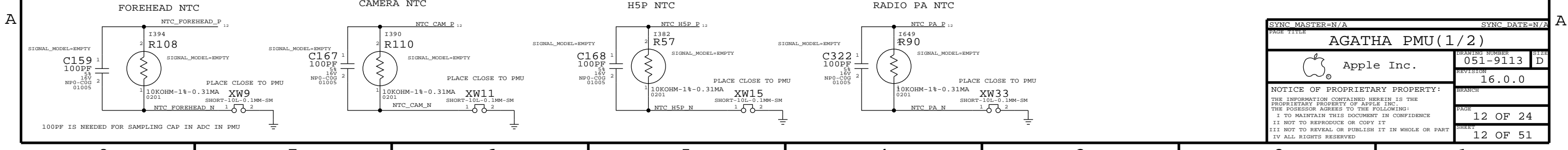


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CG FLEX CONNECTOR			
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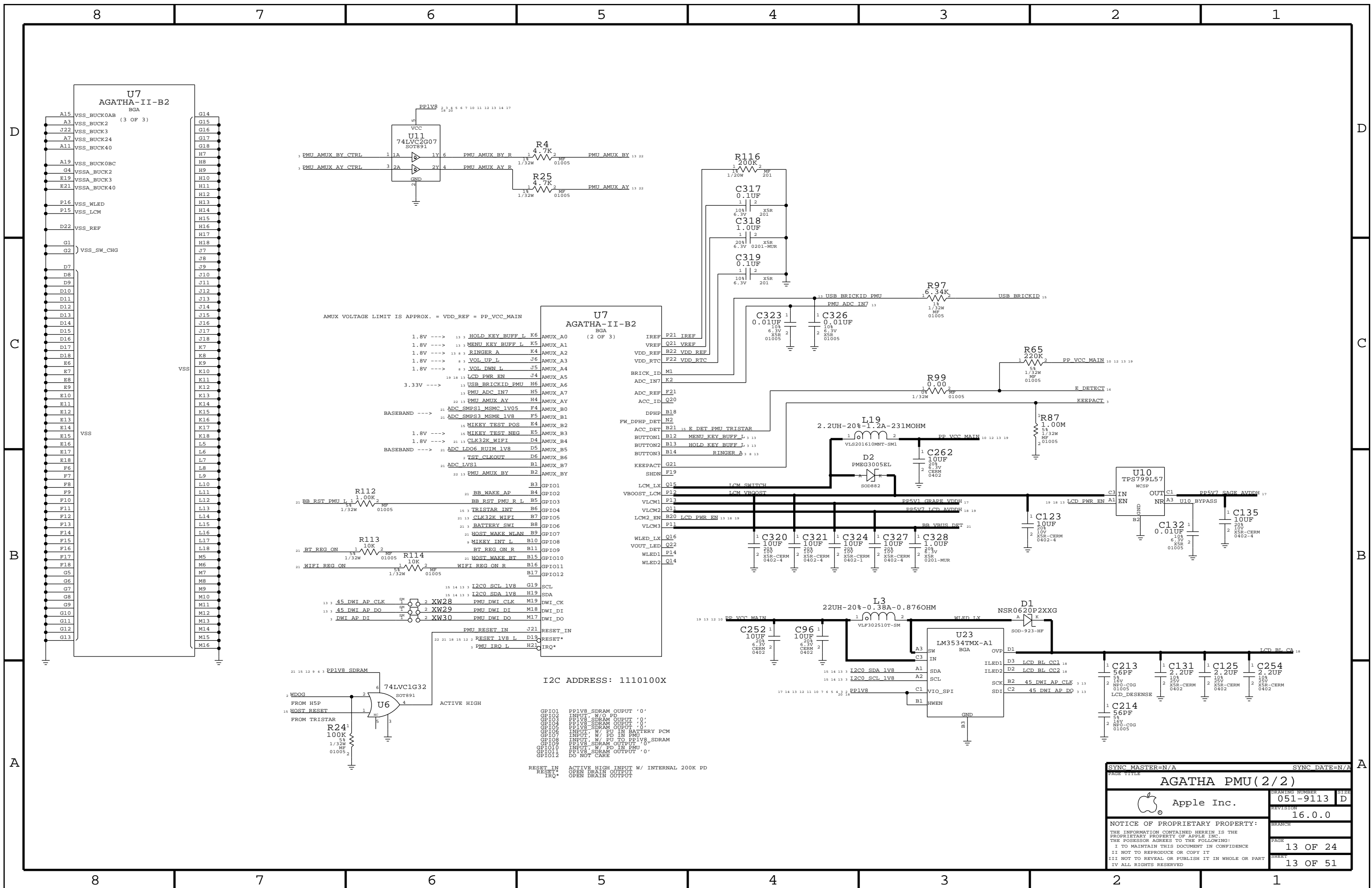


NOTE: ROUTE TRACES BETWEEN LDO AND CAP TO ALLOW 0.050 OHM ESR

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
13850711	4	CAP,CER,100PF,20%,6.3V,X5R,0402	C308,C69,C70,C293	?



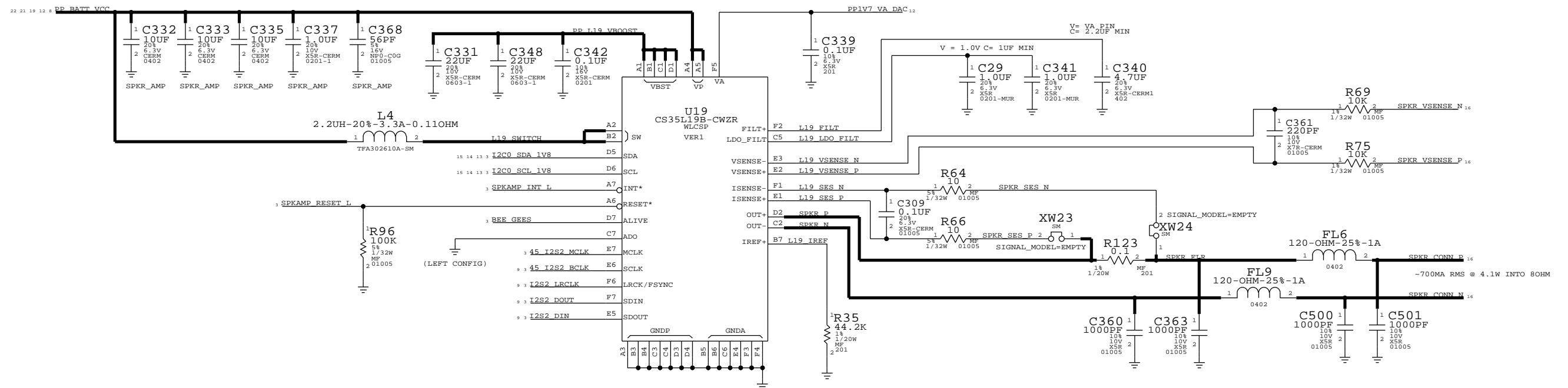
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AGATHA PMU (1/2)			
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AGATHA PMU (2/2)			
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SPEAKER AMP

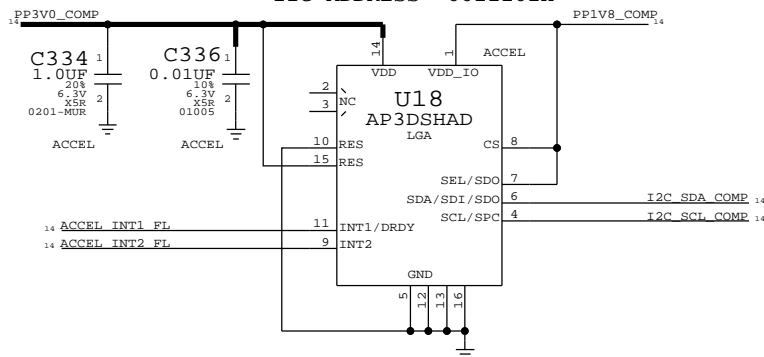
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THESE PARTS OUTSIDE OF SHIELD

ACCELEROMETER

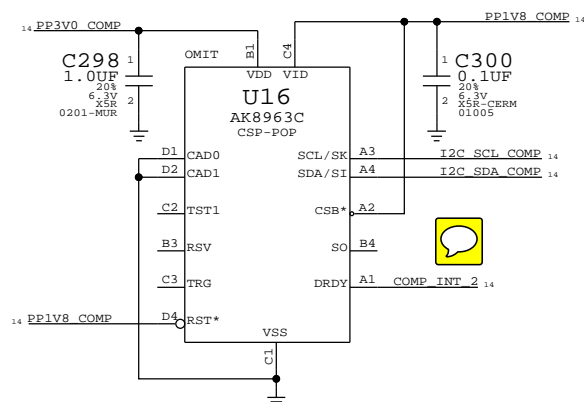
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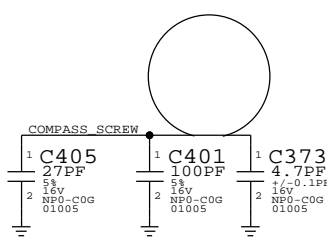
COMPASS 2

I2C ADDR: 0001100X

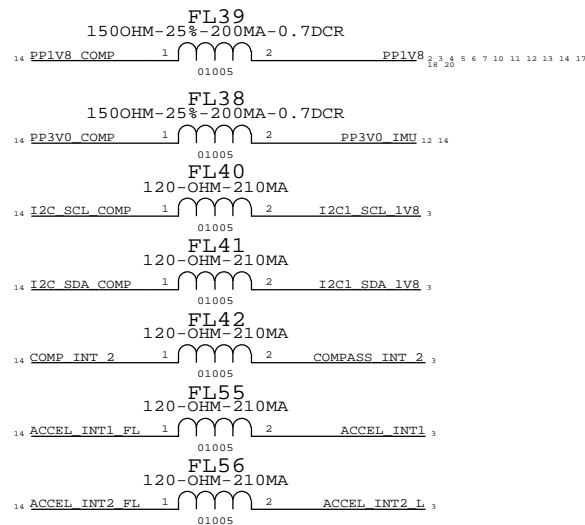
COMPASS POP FOOTPRINT: 998-5120
COMPASS DEVICE: 338S1014



COMPASS SCREW IS RF GROUND

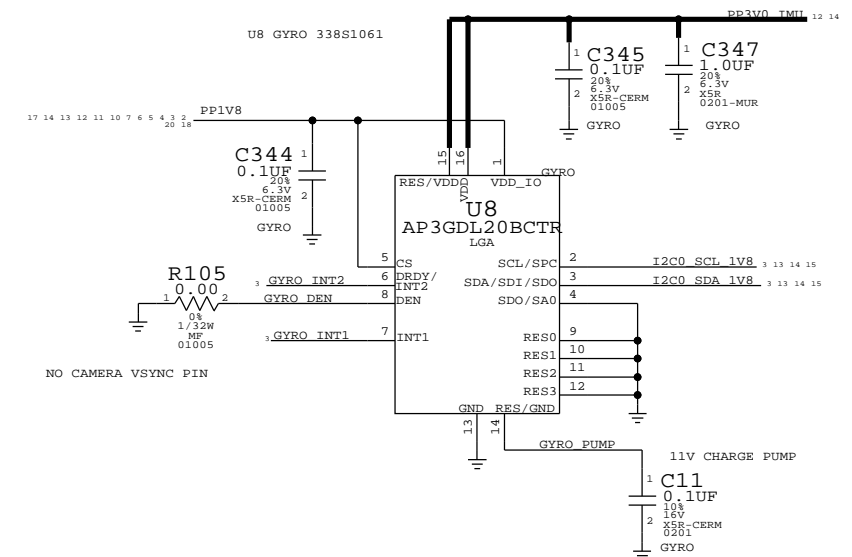


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
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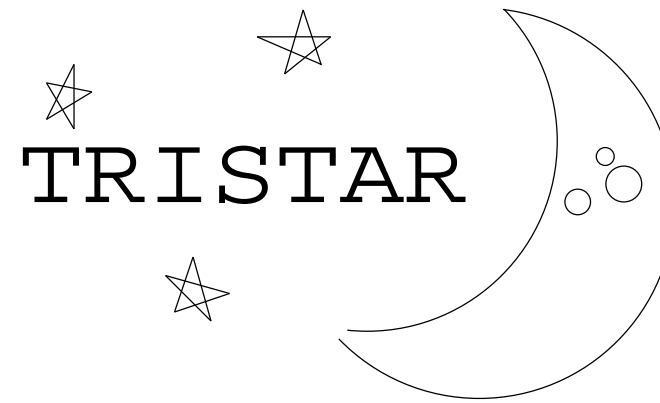


GYRO 20KHZ

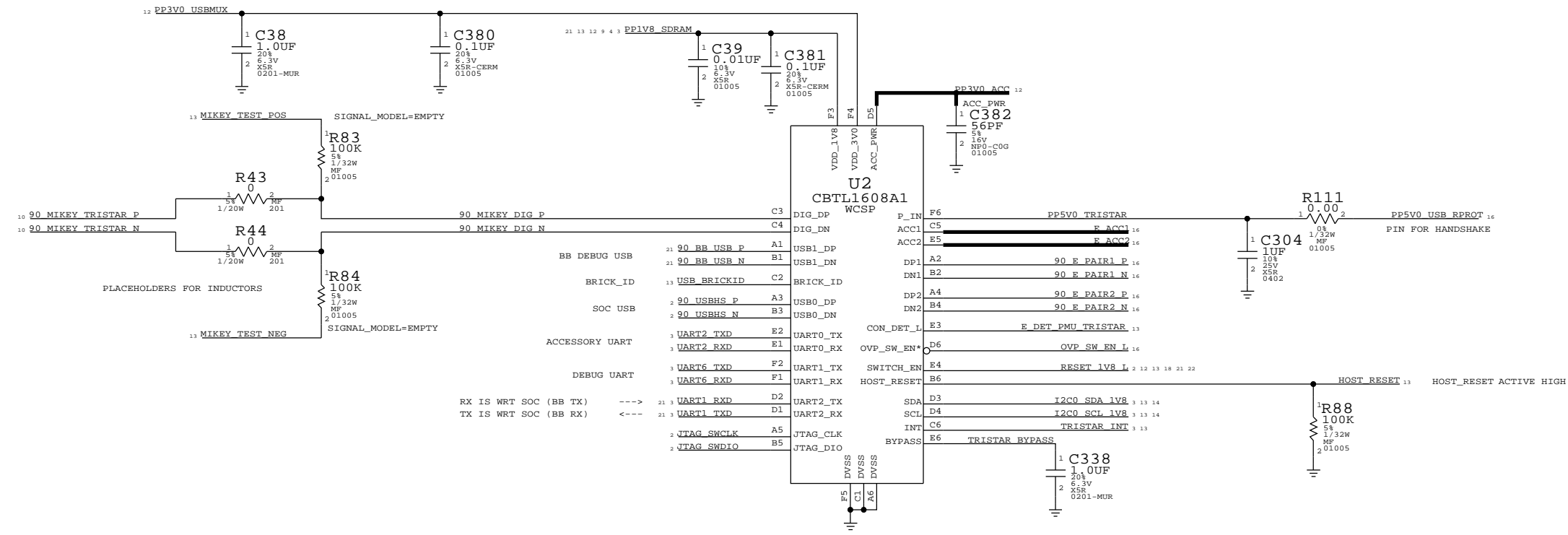
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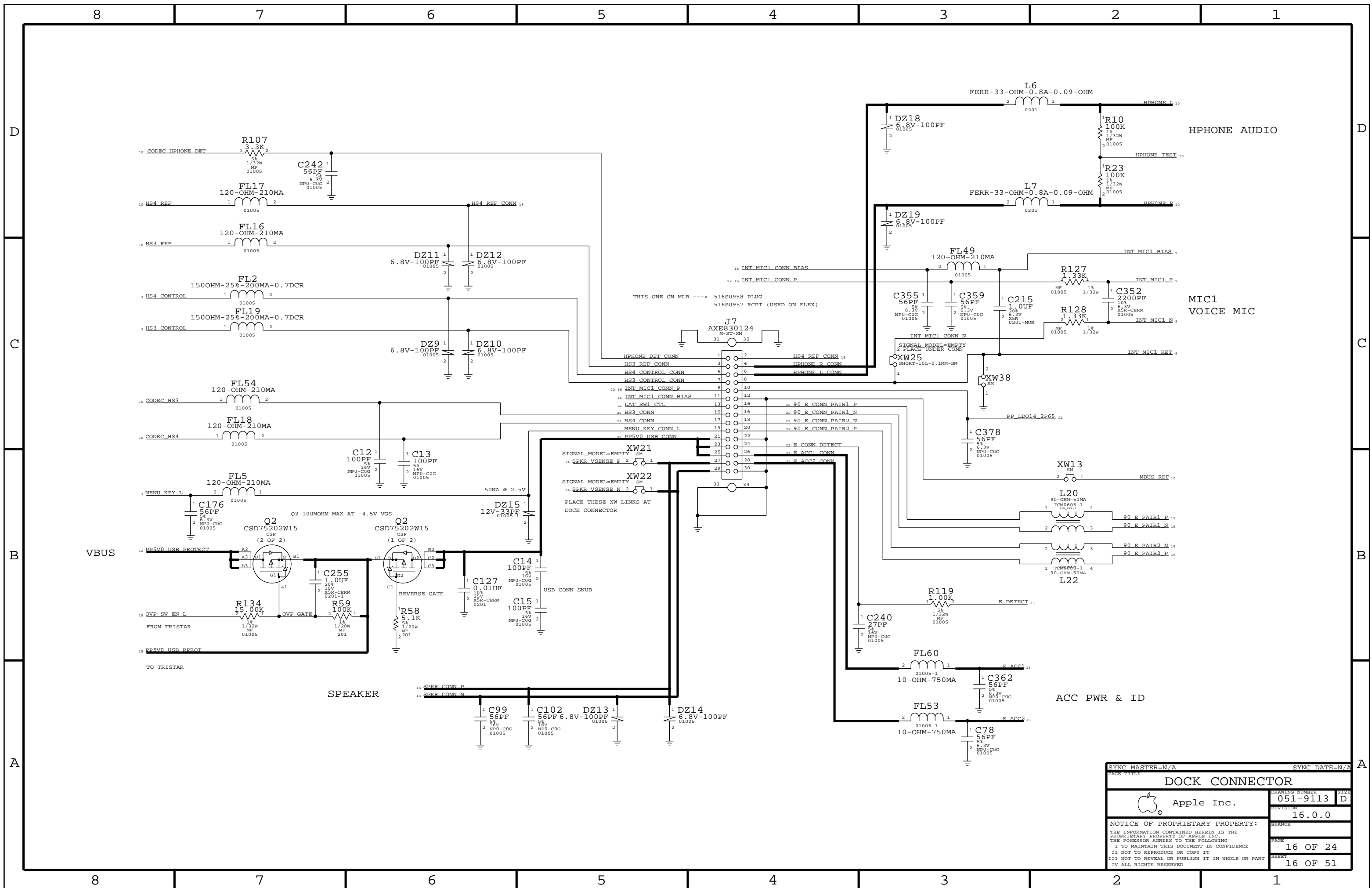
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12C ADDRESS: 0011010X



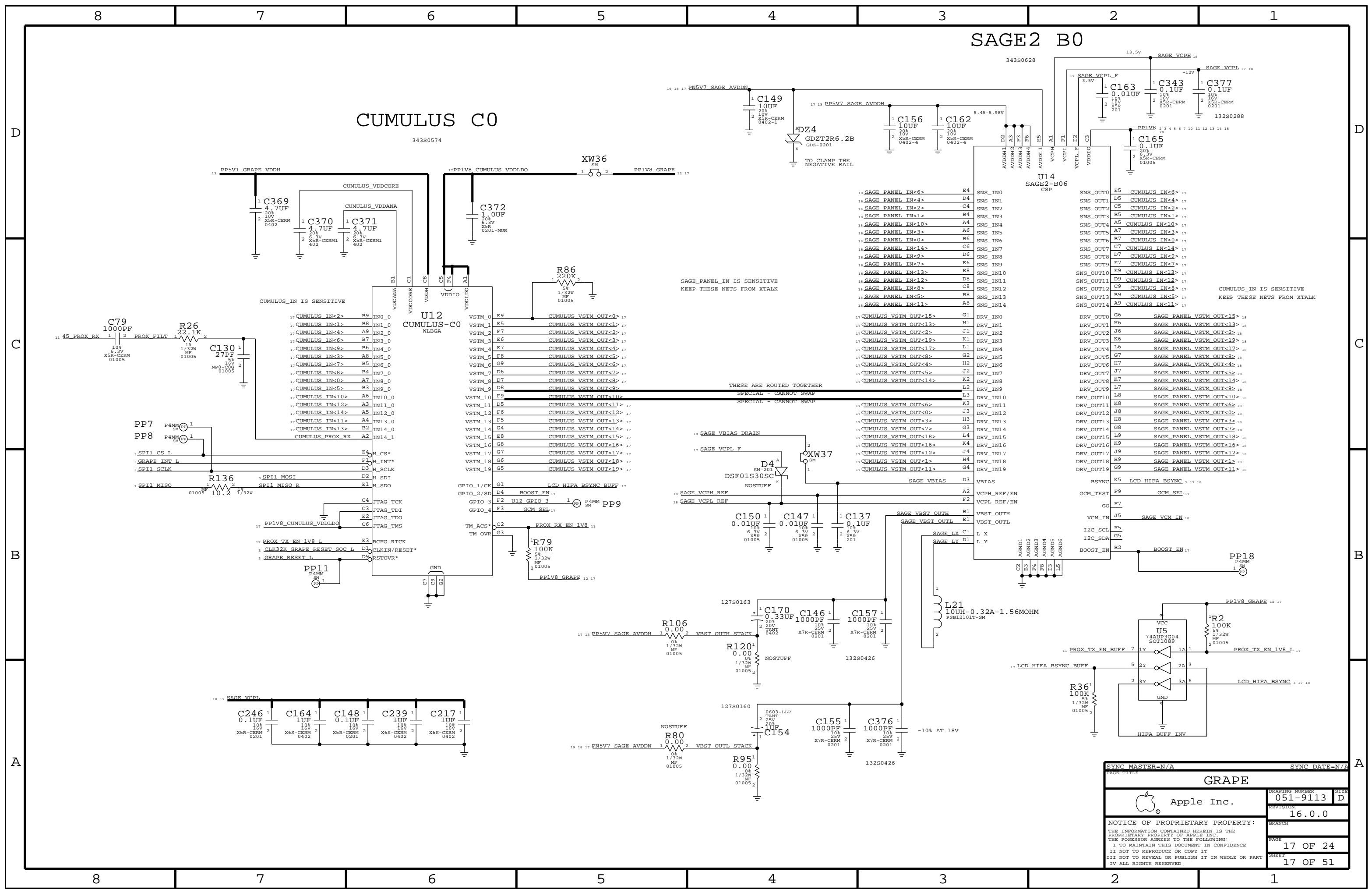
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Apple Inc.		DRAWING NUMBER	051-9113
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		PAGE	15 OF 24
		SHEET	15 OF 51



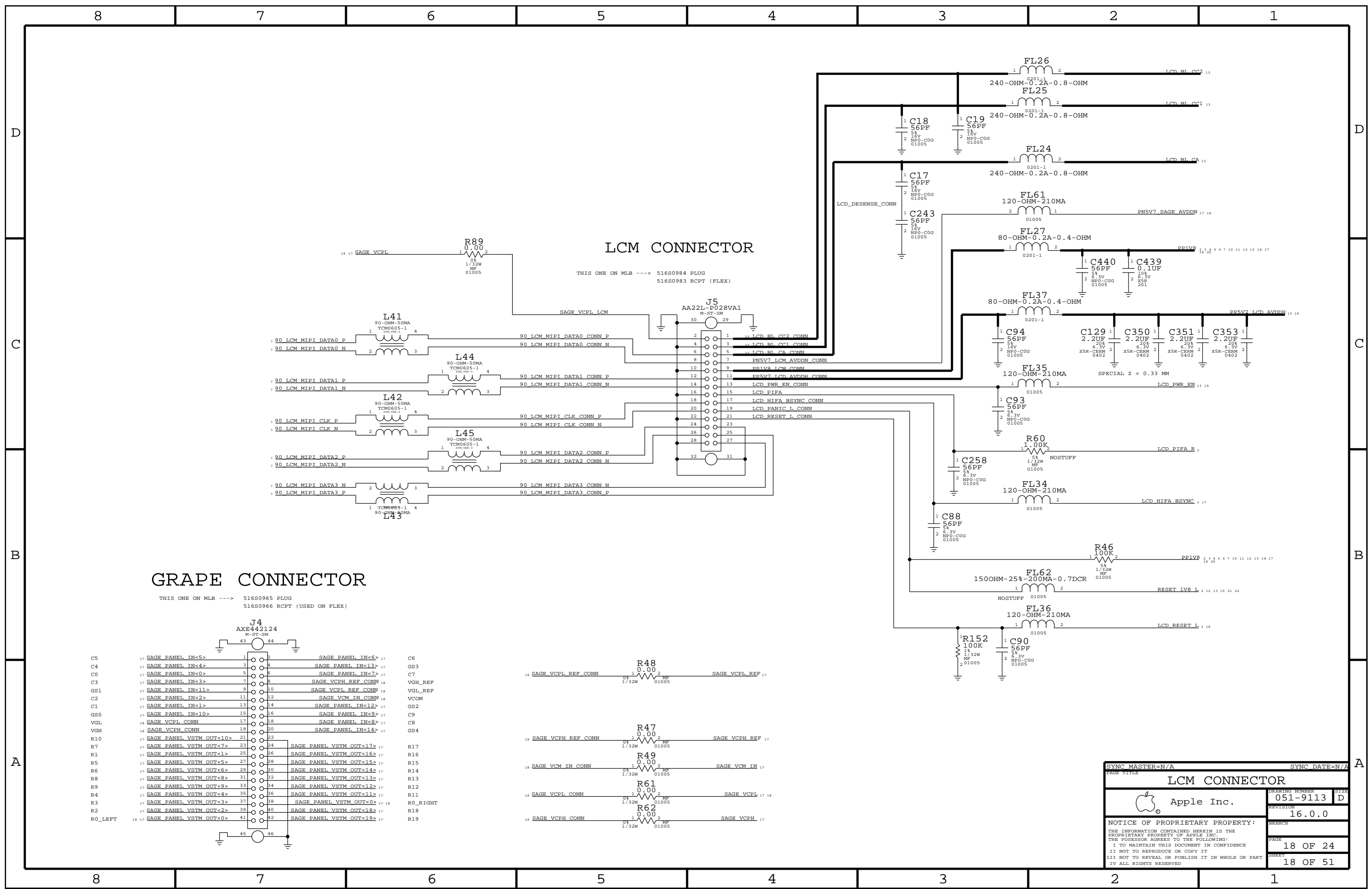
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Apple Inc.		DRAWING NUMBER	051-9113
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		PAGE	16 OF 24
		SHEET	16 OF 51

SAGE2 B0

CUMULUS C0



PAGE TITLE		SYNC DATE=N/A	
GRAPE			
Apple Inc.	DRAWING NUMBER	051-9113	SIZE
	REVISION	16.0.0	D
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LCM CONNECTOR

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

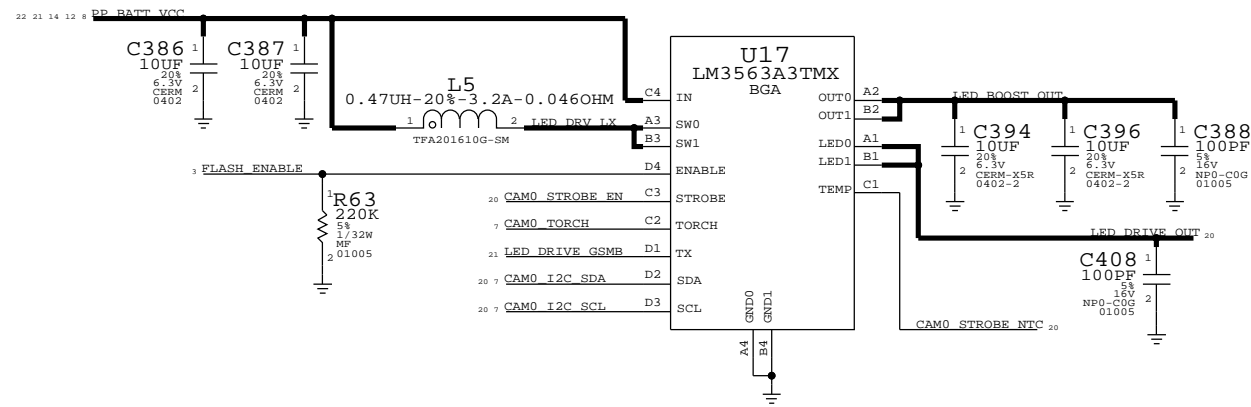
GRAPE CONNECTOR

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

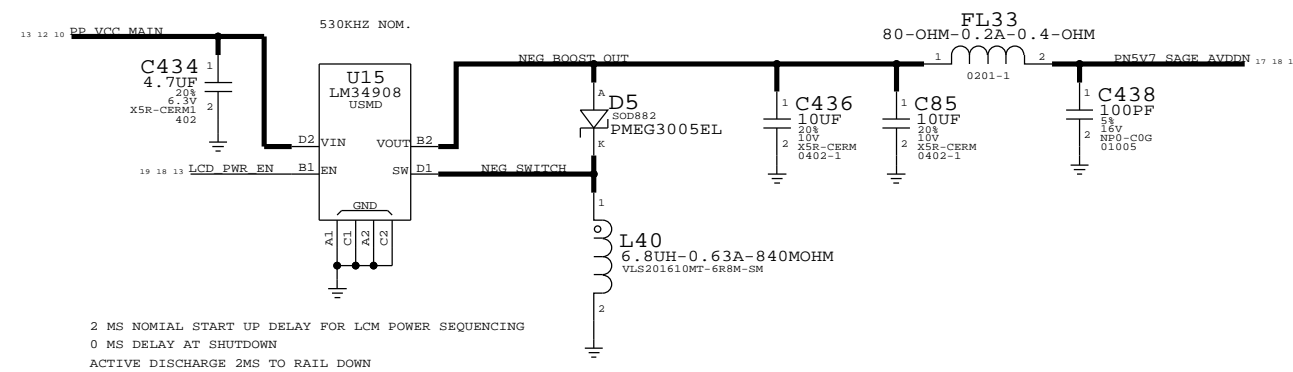
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Apple Inc.	DRAWING NUMBER	051-9113	SIZE D
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LED DRIVER

I2C ADDRESS: 1100011X

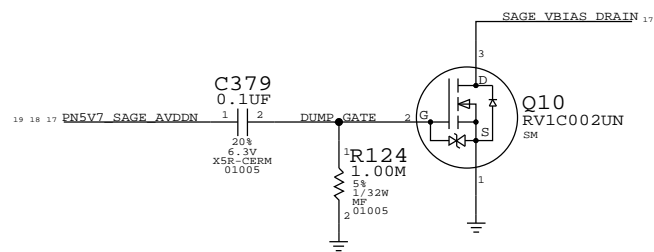


NEGATIVE BOOST SUPPLY

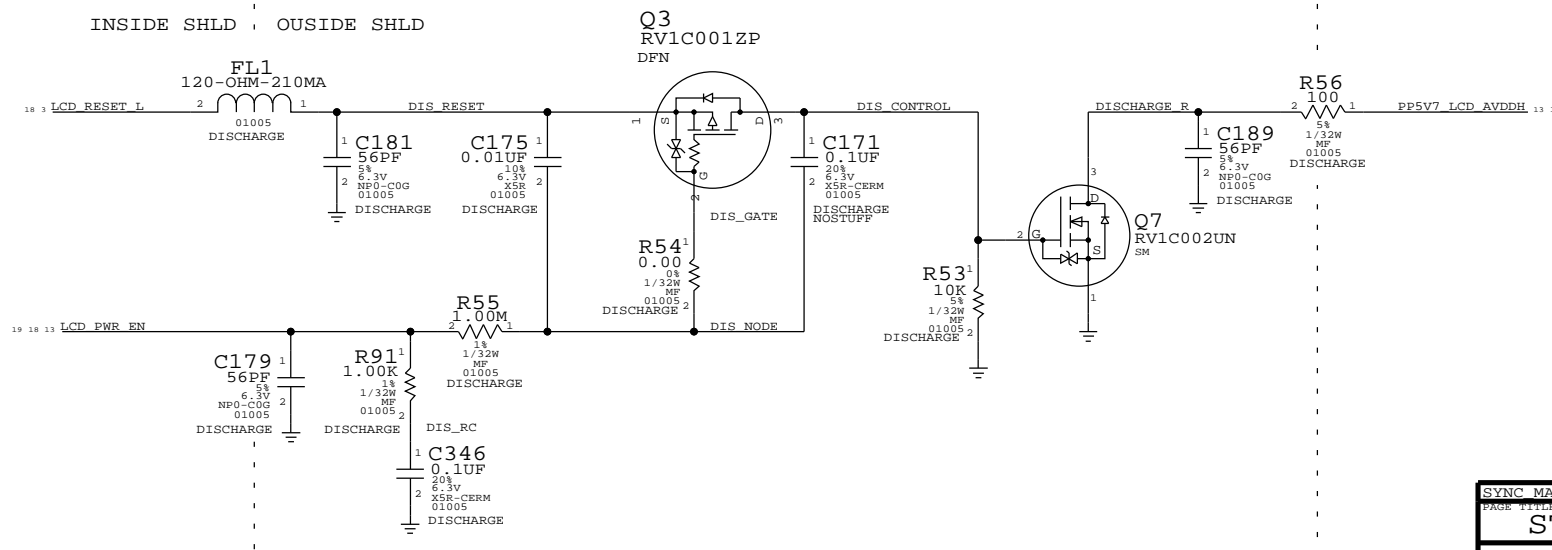


2 MS NOMIAL START UP DELAY FOR LCM POWER SEQUENCING
 0 MS DELAY AT SHUTDOWN
 ACTIVE DISCHARGE 2MS TO RAIL DOWN

SAGE_VBIAS DISCHARGE

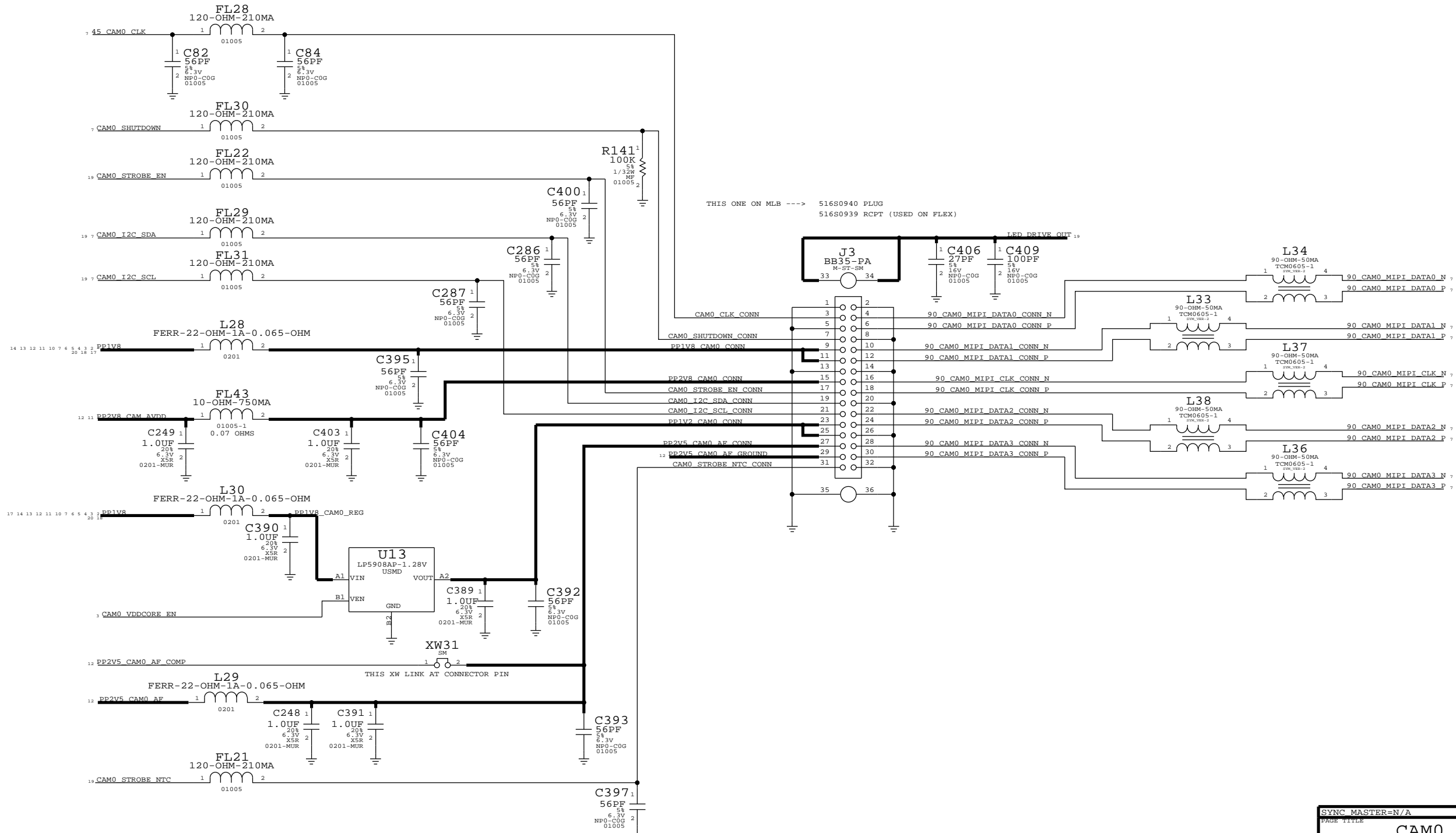


THIS CIRCUIT IS BEHIND THE SIM TRAY



SYNC MASTER=N/A		SYNC DATE=N/A	
STROBE & NEGATIVE RAIL			
Apple Inc.		DRAWING NUMBER	SIZE
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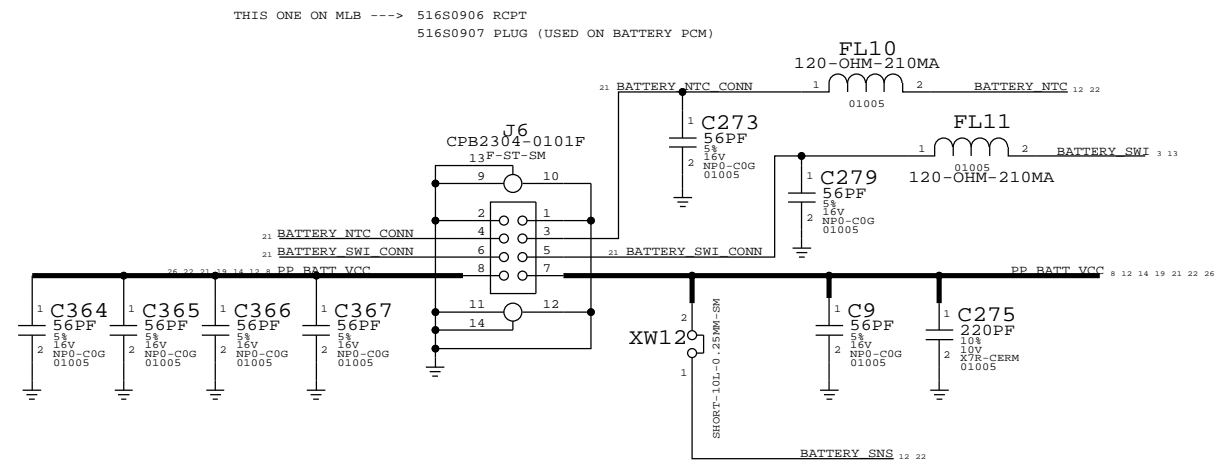
CAM0: MAIN CAMERA CONNECTOR



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CAM0 CONNECTOR			
Apple Inc.	DRAWING NUMBER	051-9113	SIZE
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AP/RADIO INTERFACE

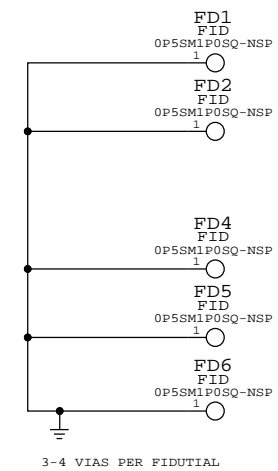
BATTERY CONN



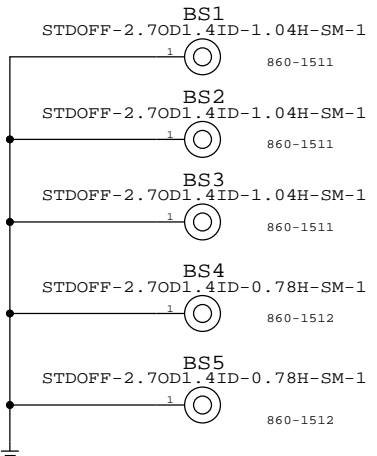
SUBDESIGN_SUFFIX=RF I594

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
26 3	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 11	BB_RST_PMU_L	MAKE_BASE=TRUE	RESET_PMU_L	BB_JTAG_TDI	MAKE_BASE=TRUE	BB_JTAG_TDI	3 26
26 4	BB_RST_L	MAKE_BASE=TRUE	BB_RST_L	BB_JTAG_TMS	MAKE_BASE=TRUE	BB_JTAG_TMS	3 26
26 23	BB_WAKE_AP	MAKE_BASE=TRUE	HOST_WAKE_BB	BB_JTAG_TRST_L	MAKE_BASE=TRUE	BB_JTAG_TRST_L	3 26
26 23 18 15 12	RESET_IV8_L	MAKE_BASE=TRUE	RF_RESET_L	BB_JTAG_TDO	MAKE_BASE=TRUE	BB_JTAG_TDO	3 26
USED TO HOLD AP IN RESET DEBUG ONLY							
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_GTR_THRESH				
26 11	BB_VBUS_DET	MAKE_BASE=TRUE	BB_USB_VBUS				
26 15	90_BB_USB_N	MAKE_BASE=TRUE	90_BB_USB_D_N				
26 15	90_BB_USB_P	MAKE_BASE=TRUE	90_BB_USB_D_P				
30 3	UART1_RTS_L	MAKE_BASE=TRUE	BB_UART_CTS_L	RADIO_MLB			
30 3	UART1_CTS_L	MAKE_BASE=TRUE	BB_UART_RTS_L				
30 3	UART1_TXD	MAKE_BASE=TRUE	BB_UART_RXD				
30 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_IV05	MAKE_BASE=TRUE	ADC_SMP31_MSMC_IV05				
26 13	ADC_SMP33_MSME_IV8	MAKE_BASE=TRUE	ADC_SMP33_MSME_IV8				
26 13	ADC_LDO6_RUIM_IV8	MAKE_BASE=TRUE	ADC_LDO6_RUIM_IV8				
26 13	ADC_LVS1	MAKE_BASE=TRUE	ADC_LVS1				
42 15 13 12 9 4 3	PP1V8_SDRAM	MAKE_BASE=TRUE	PP_WL_BT_VDDIO_AP				
42 13	WIFI_REG_ON	MAKE_BASE=TRUE	WLAN_REG_ON				
42 13	BT_REG_ON	MAKE_BASE=TRUE	BT_REG_ON				
42 13	UART4_TXD	MAKE_BASE=TRUE	WLAN_UART_RXD				
42 13	UART4_RXD	MAKE_BASE=TRUE	WLAN_UART_TXD				
42 13	HOST_WAKE_WLAN	MAKE_BASE=TRUE	HOST_WAKE_WLAN				
42 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				
42 3	UART3_TXD	MAKE_BASE=TRUE	BT_UART_RXD				
42 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 2	50_HSIC3_DATA	MAKE_BASE=TRUE	50_HSIC_WLAN_DATA				
42 2	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 2	WLAN_HSIC3_RESUME	MAKE_BASE=TRUE	WLAN_HSIC3_RESUME				

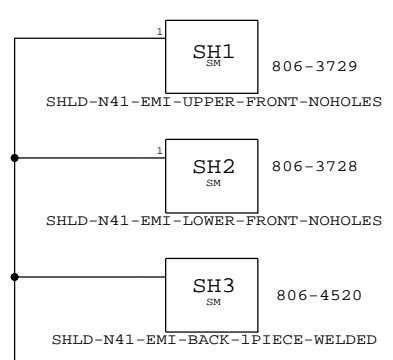
FIDUCIALS



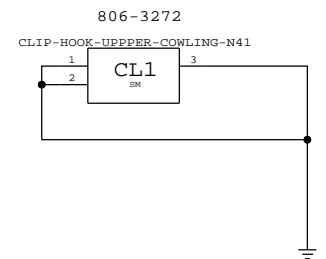
STANDOFFS



SHIELDS



UPPER COWLING CLIP/HOOK



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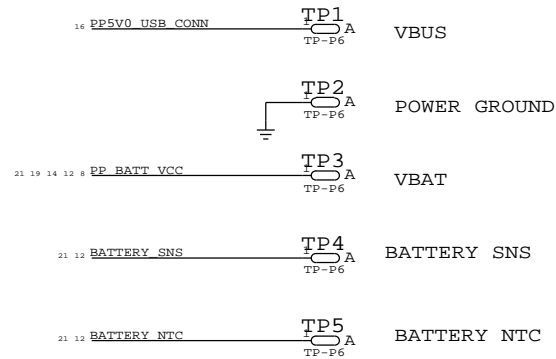
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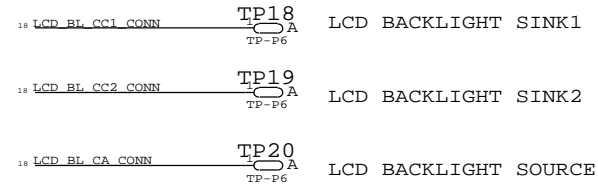
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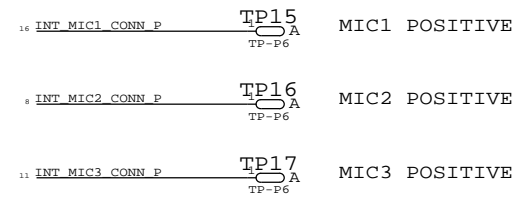
POWER TP



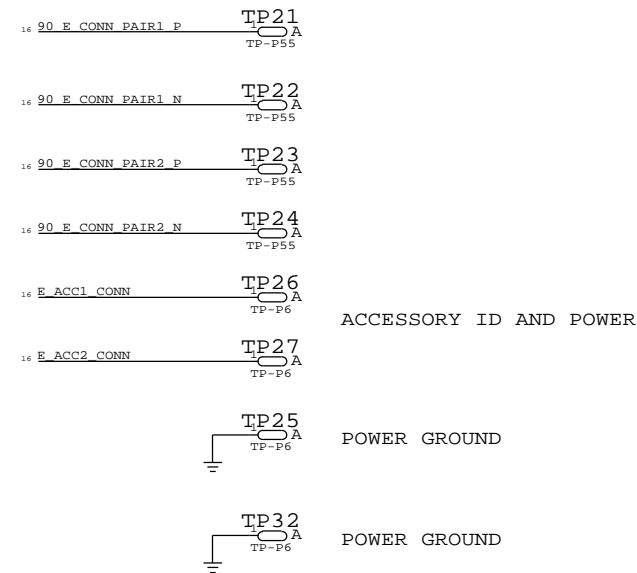
LCM BACKLIGHT



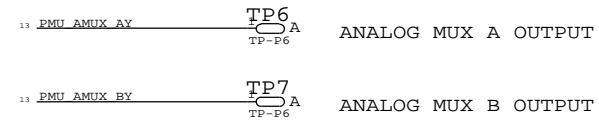
MIC AUDIO



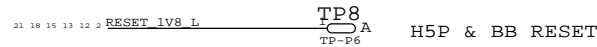
E75 - USB/UART/ID/POWER



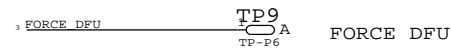
SUPER TP



RESET

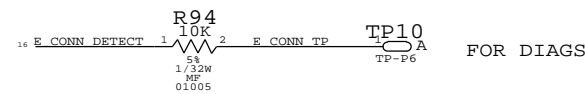
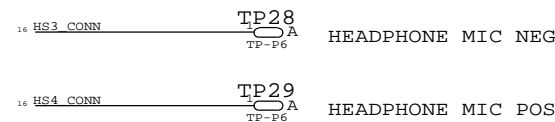


DFU



DRIVE MIC WRT NEAREST GROUND TEST POINT

HEADPHONE MIC



D

D

C

C

B

B

A

A

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TEST POINTS			
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1

RADIO BOM OPTIONS

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

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
NEED TO COPY FROM AP TABLE
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 LFP	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

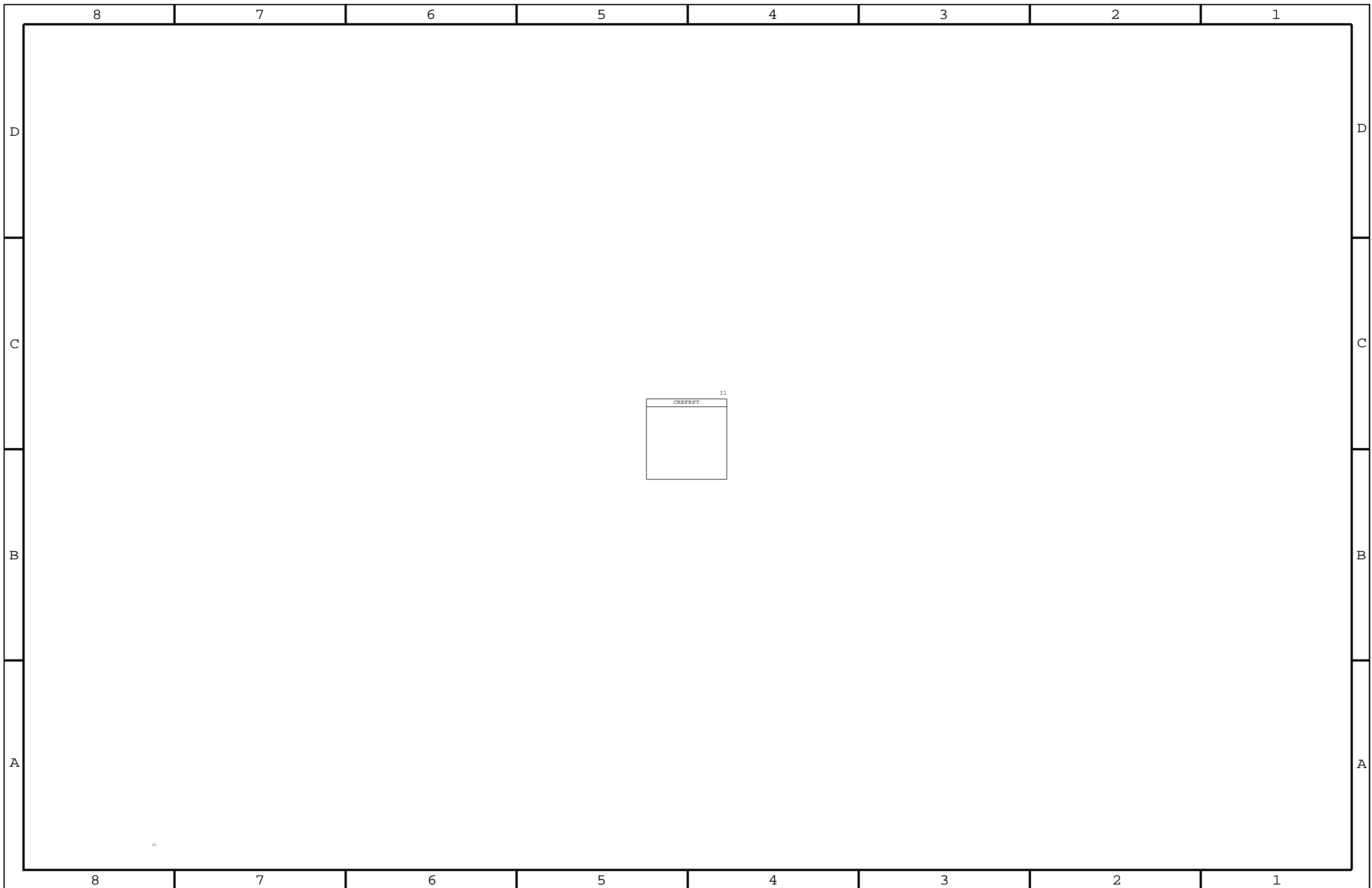
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S0215	1	22PF CAPACITOR - 01005	L1417_RF	Y	B4_17
152S1569	1	3.9NH INDUCTOR - 01005	L1417_RF	Y	B3_13
131S0369	1	0.5PF CAPACITOR - 01005	L1408_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B4_17
152S1221	1	2.7NH INDUCTOR - 0201	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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REVISION		16.0.0		
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CREFRPT

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11

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
16	0001519661	ENGINEERING RELEASED		2012-07-02

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N41 RADIO_MLB SUBDESIGN

RADIO - 07/12/2012: SUBDESIGN

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02	AP INTERFACE AND DEBUG CONNECTORS
03	BASEBAND PMU (1 OF 2)
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05	BASEBAND (1 OF 2)
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07	RF TRANSCEIVER (1 OF 3)
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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

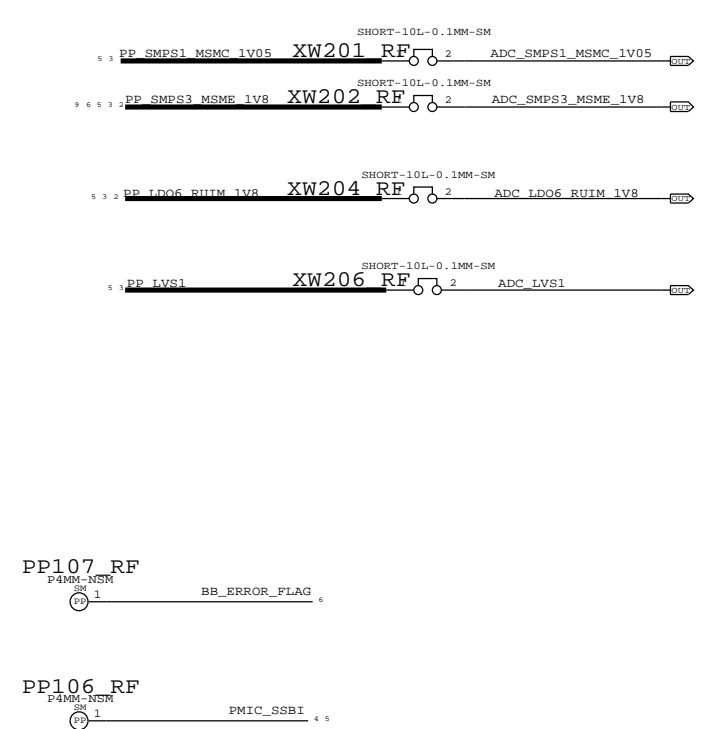
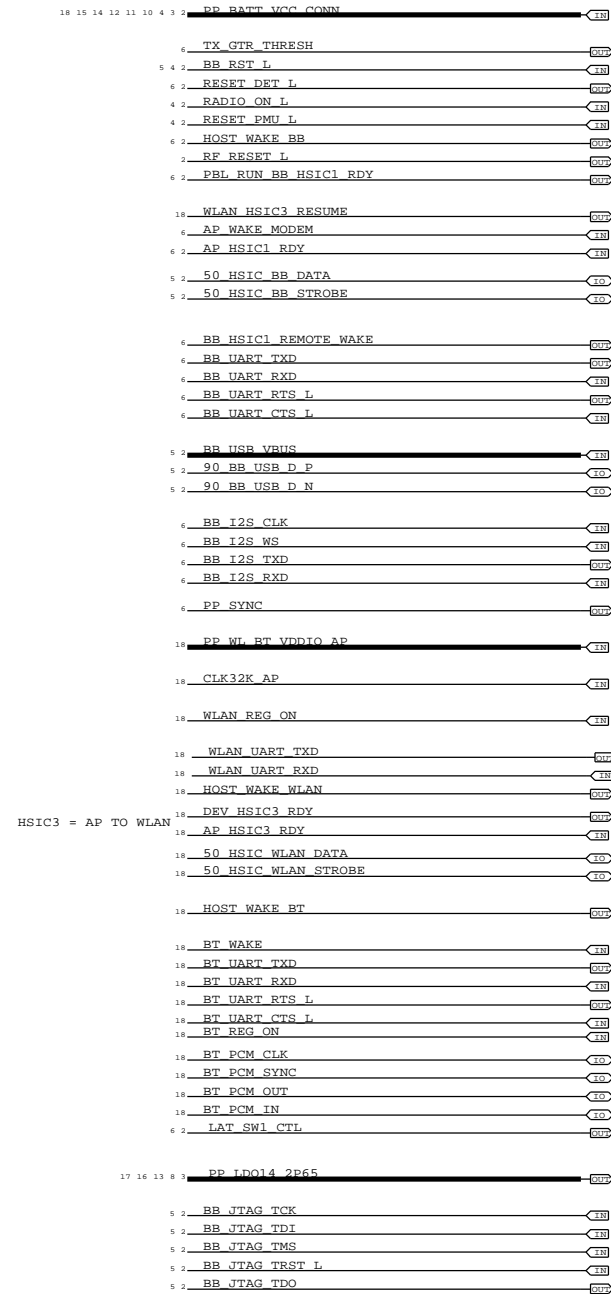
SCH #: 051-9119
 BOM (B4_17): 639-2482
 BOM (B3_13): 639-3241

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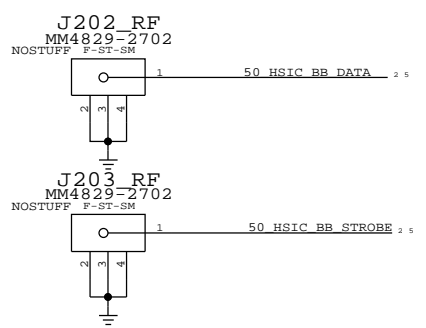
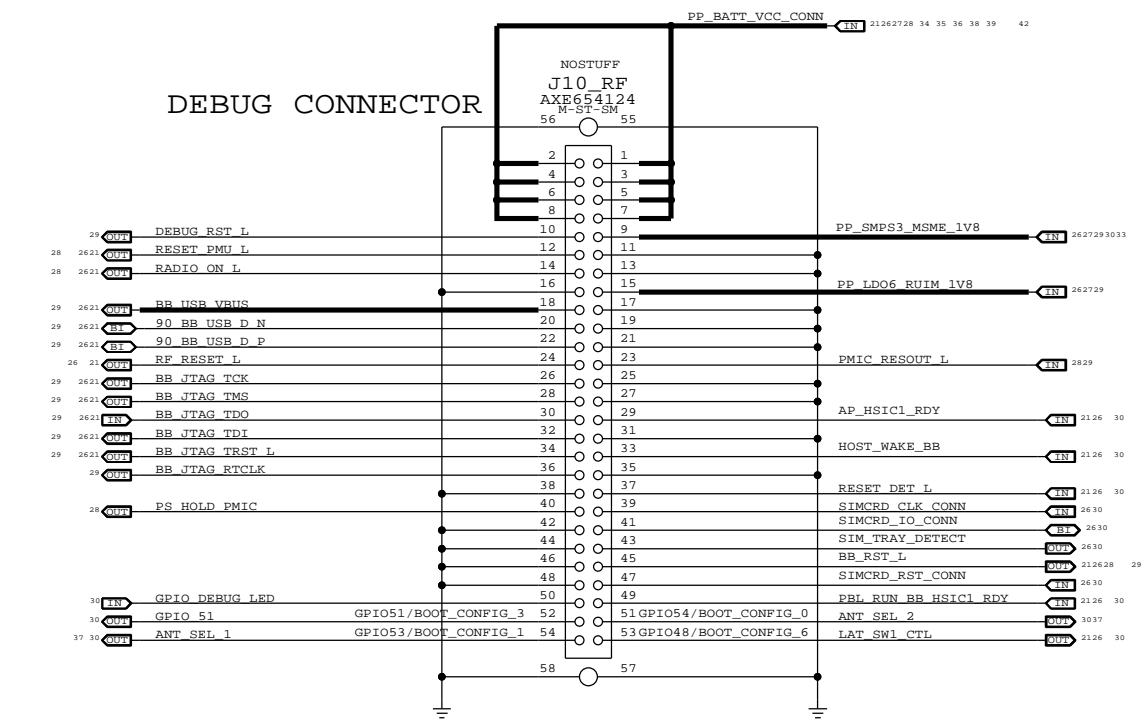
AP INTERFACE & DEBUG CONNECTOR

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AP CONNECTIONS

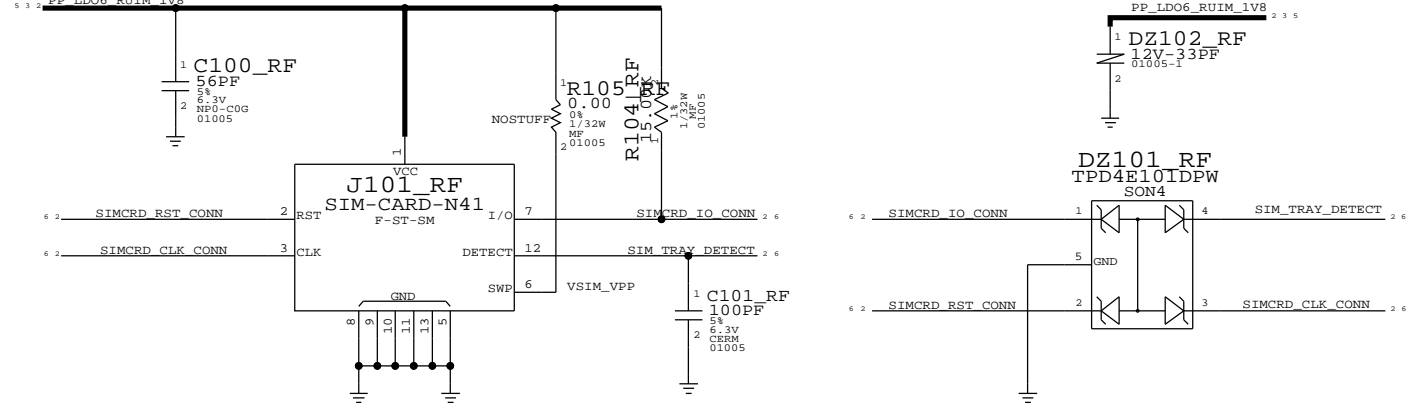


DEBUG CONNECTOR



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_HSI_C3_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

SIM CARD CONNECTOR

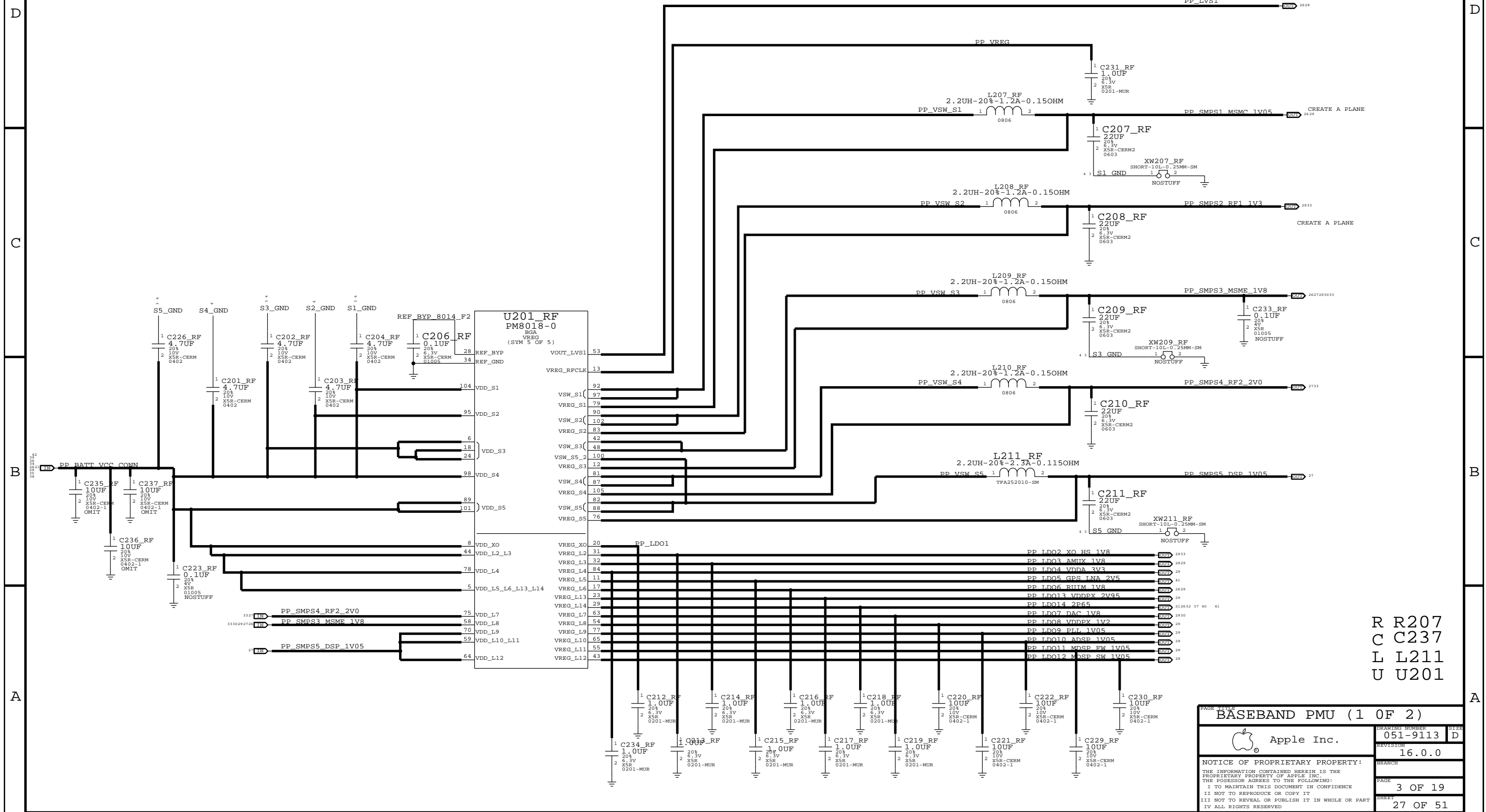


R R105
C C101
XWXW206
DZDZ101
U U101

SYSTEM & DEBUG CONNECTORS		DRAWING NUMBER	051-9113	SIZE	D
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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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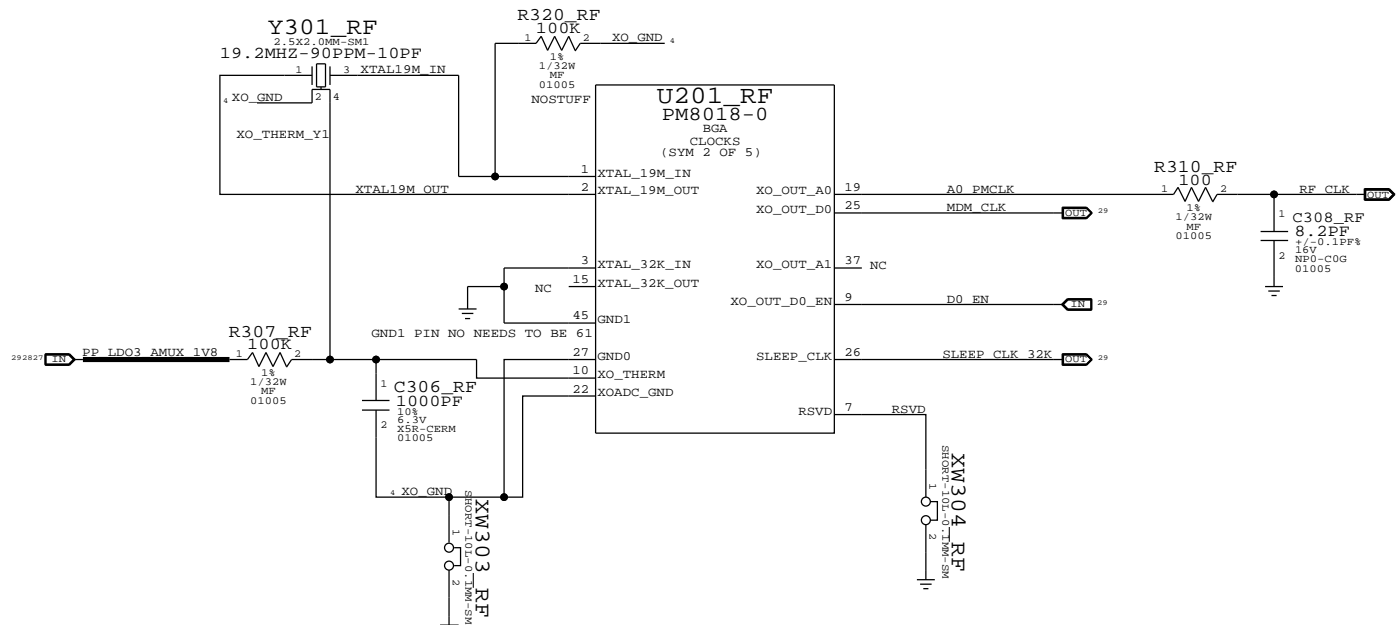
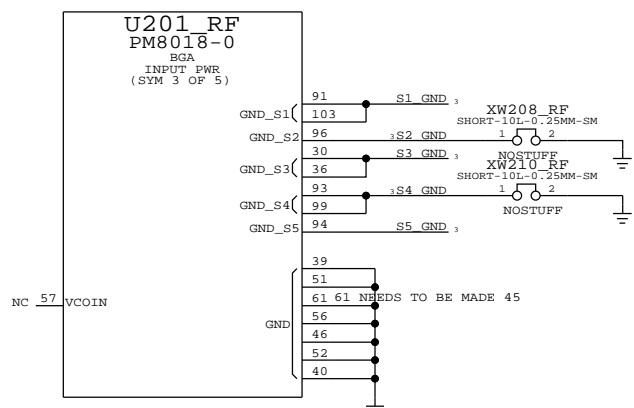
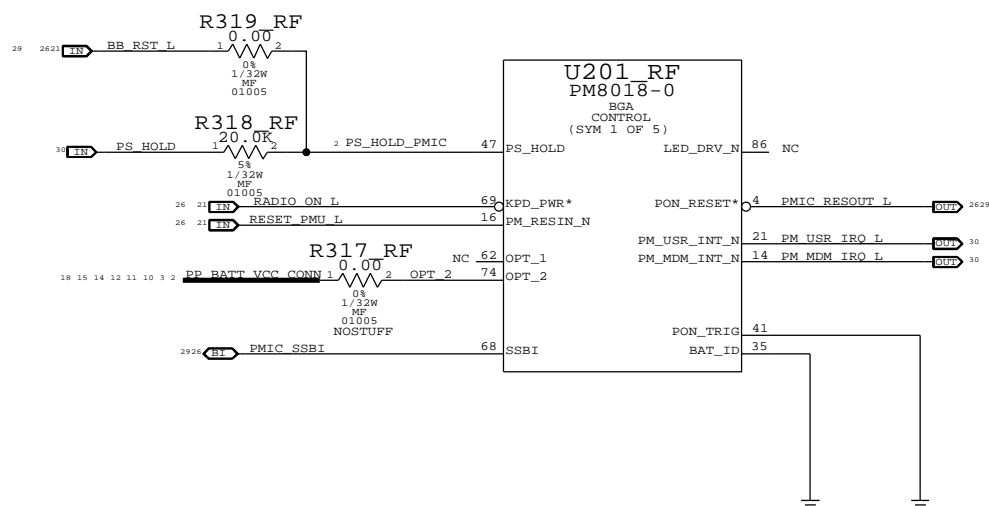
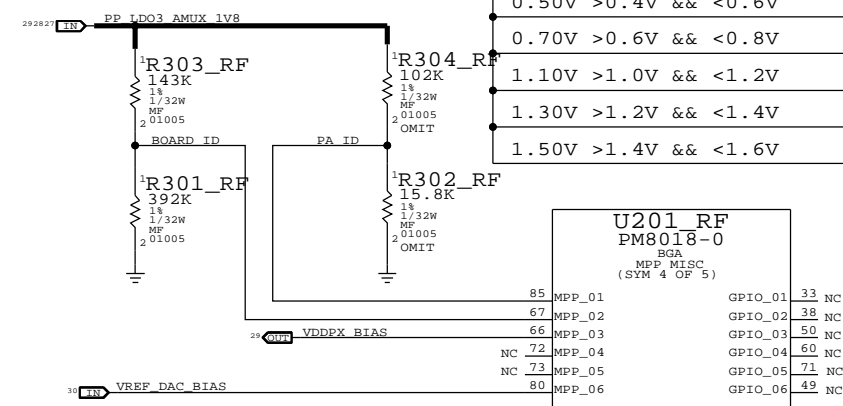
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BASEBAND PMU (2 OF 2)

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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/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

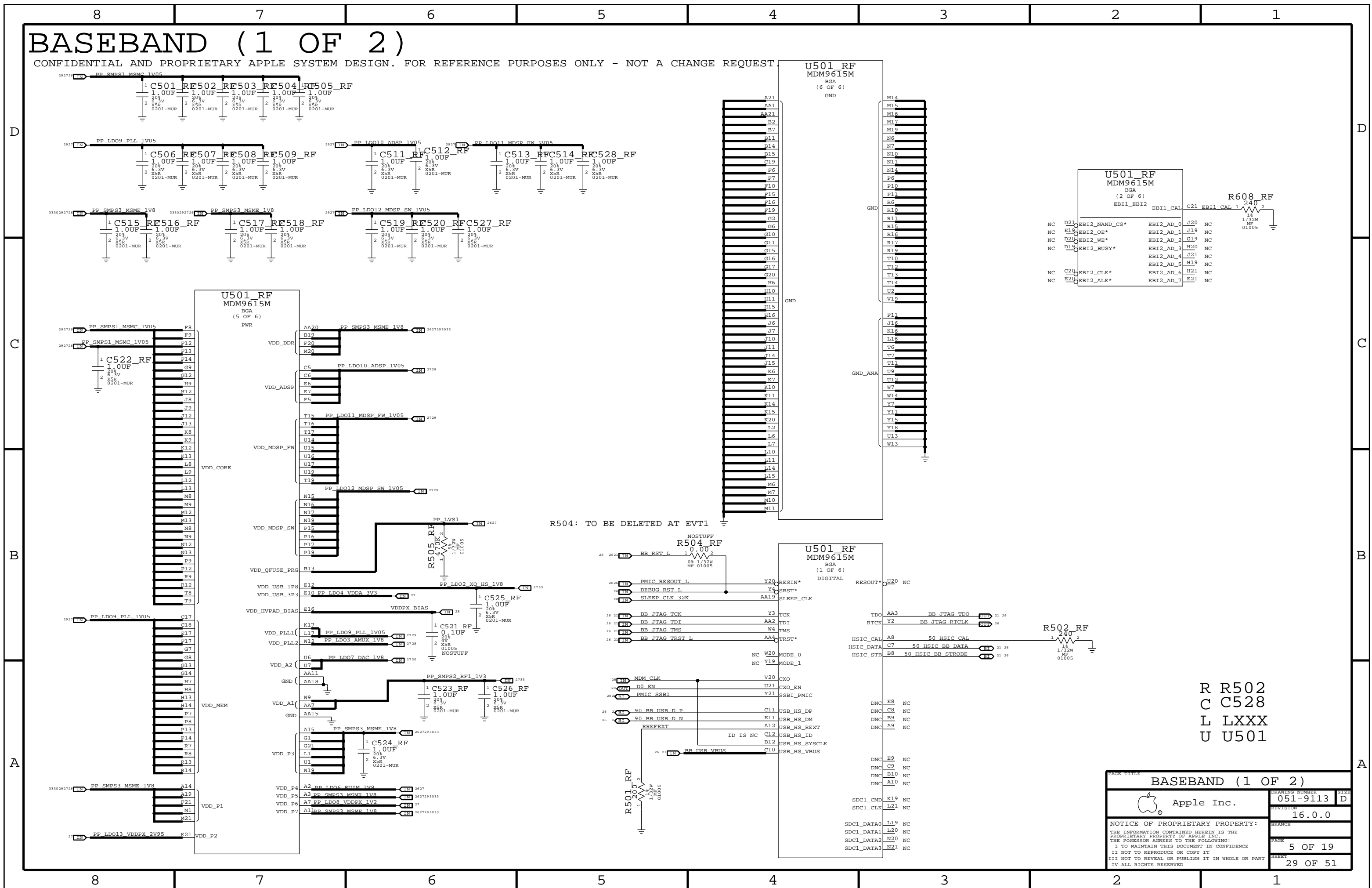


R R320
C C309
L LXXX
U U301
XW XW305


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BASEBAND (1 OF 2)

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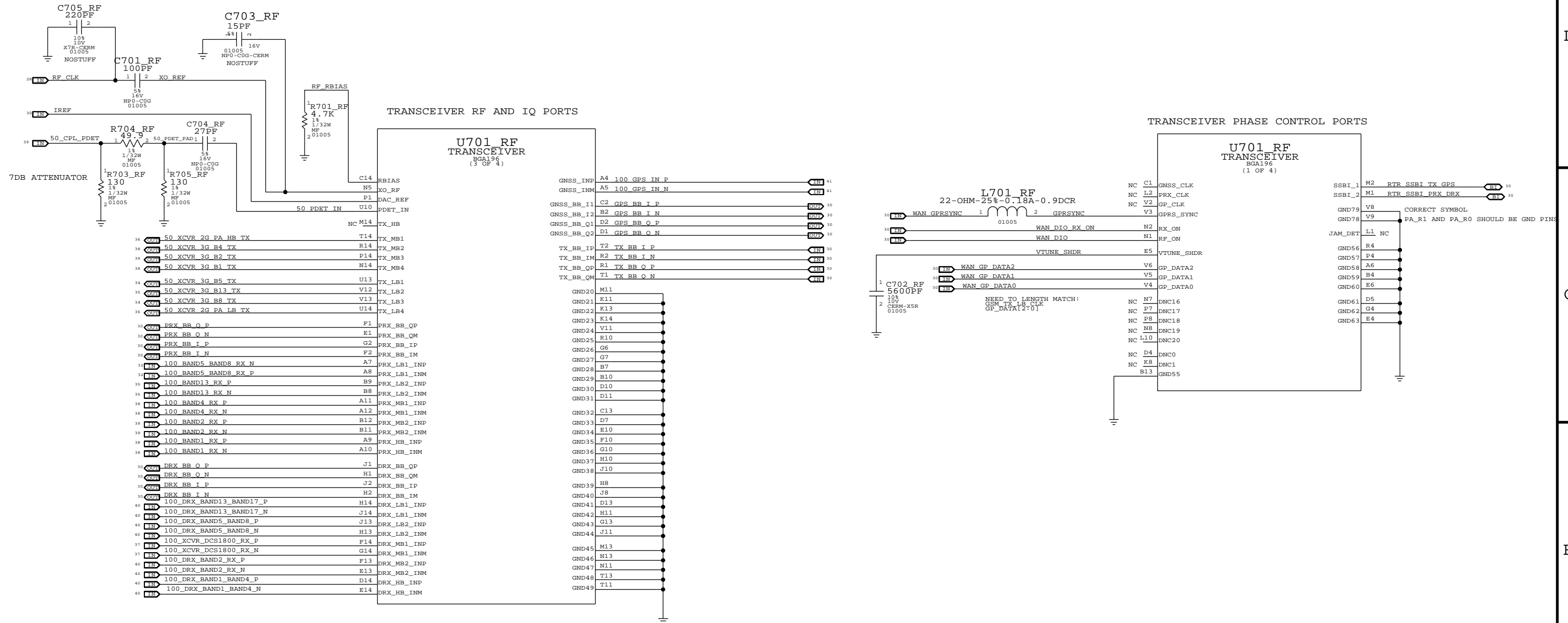


R R502
C C528
L LXXX
U U501

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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)

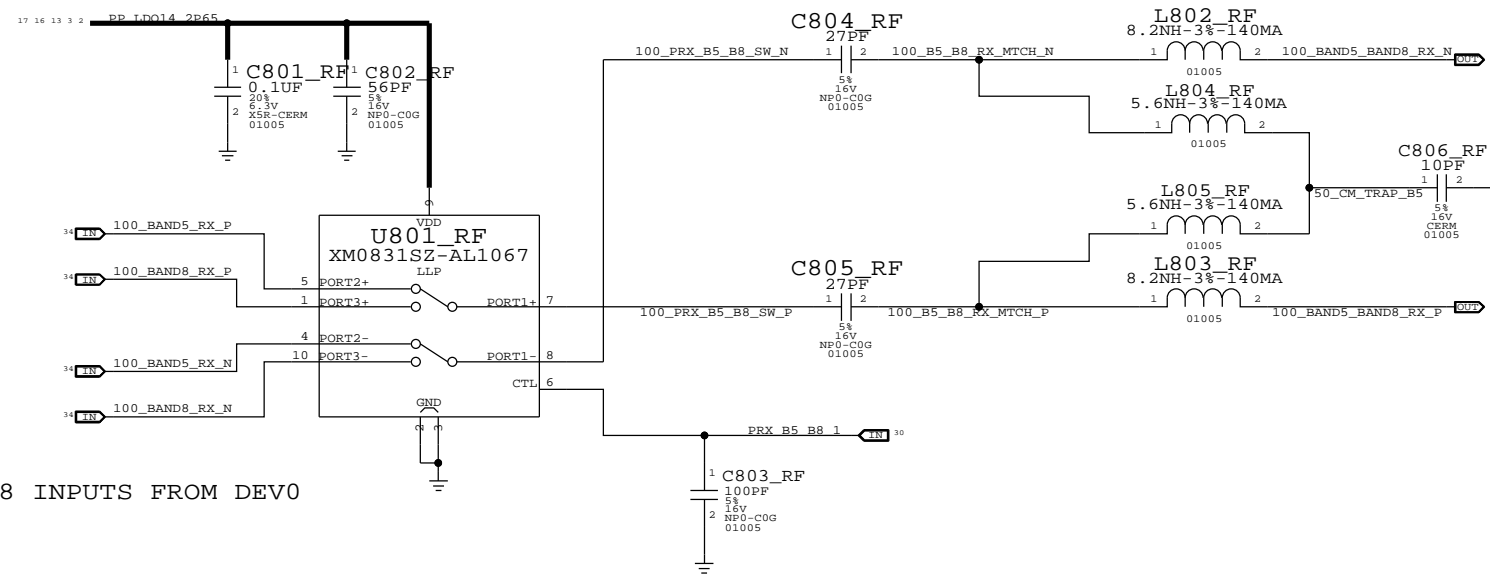
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BAND 5/BAND 8 PRX TRANSCEIVER SWITCH

XM0830SZ SWITCH LOGIC

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

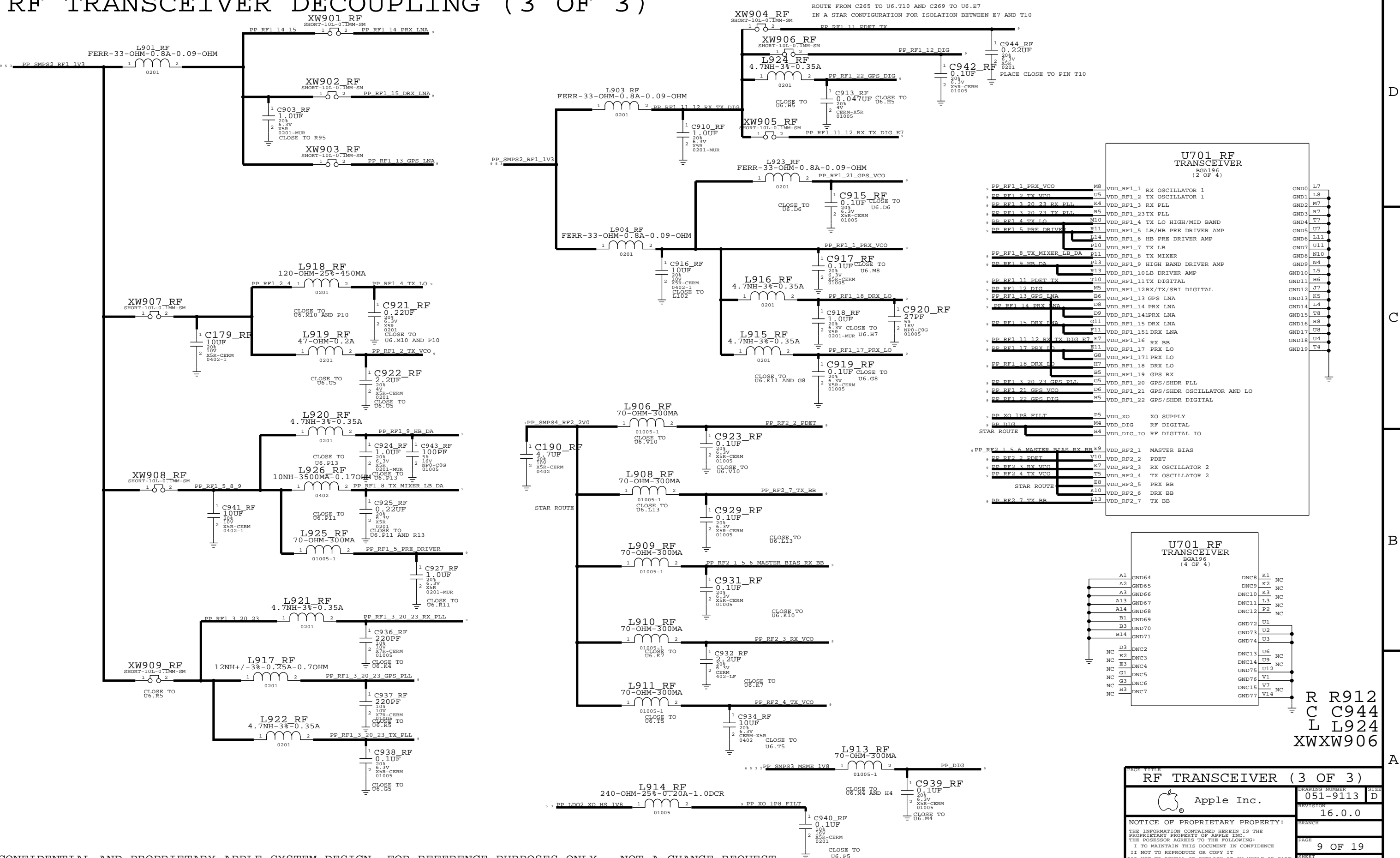
SWAPPED BAND5 AND BAND8 INPUTS FROM DEV0



R RXXX
C C806
L L803
U U801

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RF TRANSCEIVER DECOUPLING (3 OF 3)



U701 RF TRANSCEIVER (2 OF 4)

PP_RF1_1 PRX VCO	M8	VDD_RF1_1 RX OSCILLATOR 1	GND0	L7
PP_RF1_2 TX VCO	U5	VDD_RF1_2 TX OSCILLATOR 1	GND1	L8
PP_RF1_3 20 23 RX PLL	K4	VDD_RF1_3 RX PLL	GND2	M7
PP_RF1_3 20 23 TX PLL	R5	VDD_RF1_23 TX PLL	GND3	R7
PP_RF1_4 TX LO	M10	VDD_RF1_4 TX LO HIGH/MID BAND	GND4	T7
PP_RF1_5 PRE DRIVER	R11	VDD_RF1_5 LB/HB PRE DRIVER AMP	GND5	U7
	L14	VDD_RF1_6 HB PRE DRIVER AMP	GND6	L11
	P10	VDD_RF1_7 TX LB	GND7	U11
PP_RF1_8 TX MIXER LB DA	F11	VDD_RF1_8 TX MIXER	GND8	N10
PP_RF1_9 HB DA	P13	VDD_RF1_9 HIGH BAND DRIVER AMP	GND9	N4
	R13	VDD_RF1_10 LB DRIVER AMP	GND10	L5
PP_RF1_11 DEDET TX	T10	VDD_RF1_11 TX DIGITAL	GND11	H6
PP_RF1_12 DIG	M5	VDD_RF1_12 RX/TX/SBI DIGITAL	GND12	J7
PP_RF1_13 GPS LNA	B6	VDD_RF1_13 GPS LNA	GND13	K5
PP_RF1_14 PRX LNA	D8	VDD_RF1_14 PRX LNA	GND14	L4
PP_RF1_15 DEX LNA	D9	VDD_RF1_14 PRX LNA	GND15	T8
	G11	VDD_RF1_15 DRX LNA	GND16	R8
	F11	VDD_RF1_15 DRX LNA	GND17	U4
PP_RF1_11 12 RX TX DIG E7	E7	VDD_RF1_16 RX BB	GND18	U4
PP_RF1_17 PRX LO	E11	VDD_RF1_17 PRX LO	GND19	T4
	G8	VDD_RF1_17 PRX LO		
PP_RF1_18 DRX LO	H7	VDD_RF1_18 DRX LO		
	B5	VDD_RF1_19 GPS RX		
PP_RF1_3 20 23 GPS PLL	G5	VDD_RF1_20 GPS/SHDR PLL		
PP_RF1_21 GPS VCO	D6	VDD_RF1_21 GPS/SHDR OSCILLATOR AND LO		
PP_RF1_22 GPS DIG	H5	VDD_RF1_22 GPS/SHDR DIGITAL		
PP_XO_LPB_FILT	P5	VDD_XO XO SUPPLY		
PP_DIG	M4	VDD_DIG RF DIGITAL IO		
STAR ROUTE	H4	VDD_DIG_IO RF DIGITAL IO		
PP_RF2_1 5 6 MASTER BIAS RX BB	E9	VDD_RF2_1 MASTER BIAS		
PP_RF2_2 PDET	V10	VDD_RF2_2 PDET		
PP_RF2_3 RX VCO	K7	VDD_RF2_3 RX OSCILLATOR 2		
PP_RF2_4 TX VCO	T5	VDD_RF2_4 TX OSCILLATOR 2		
STAR ROUTE	E8	VDD_RF2_5 PRX BB		
	K10	VDD_RF2_6 DRX BB		
PP_RF2_7 TX BB	L13	VDD_RF2_7 TX BB		

U701 RF TRANSCEIVER (4 OF 4)

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	
B2	GND70	GND73	U2	
B14	GND71	GND74	U3	
D3	DNC2	DNC13	U6	NC
E2	DNC3	DNC14	U9	NC
NC	DNC4	GND75	U12	NC
NC	G1	GND76	U1	
NC	G3	DNC5	GND76	V1
NC	G2	DNC6	DNC15	V7
NC	H3	DNC7	DNC15	V7
			GND77	V14

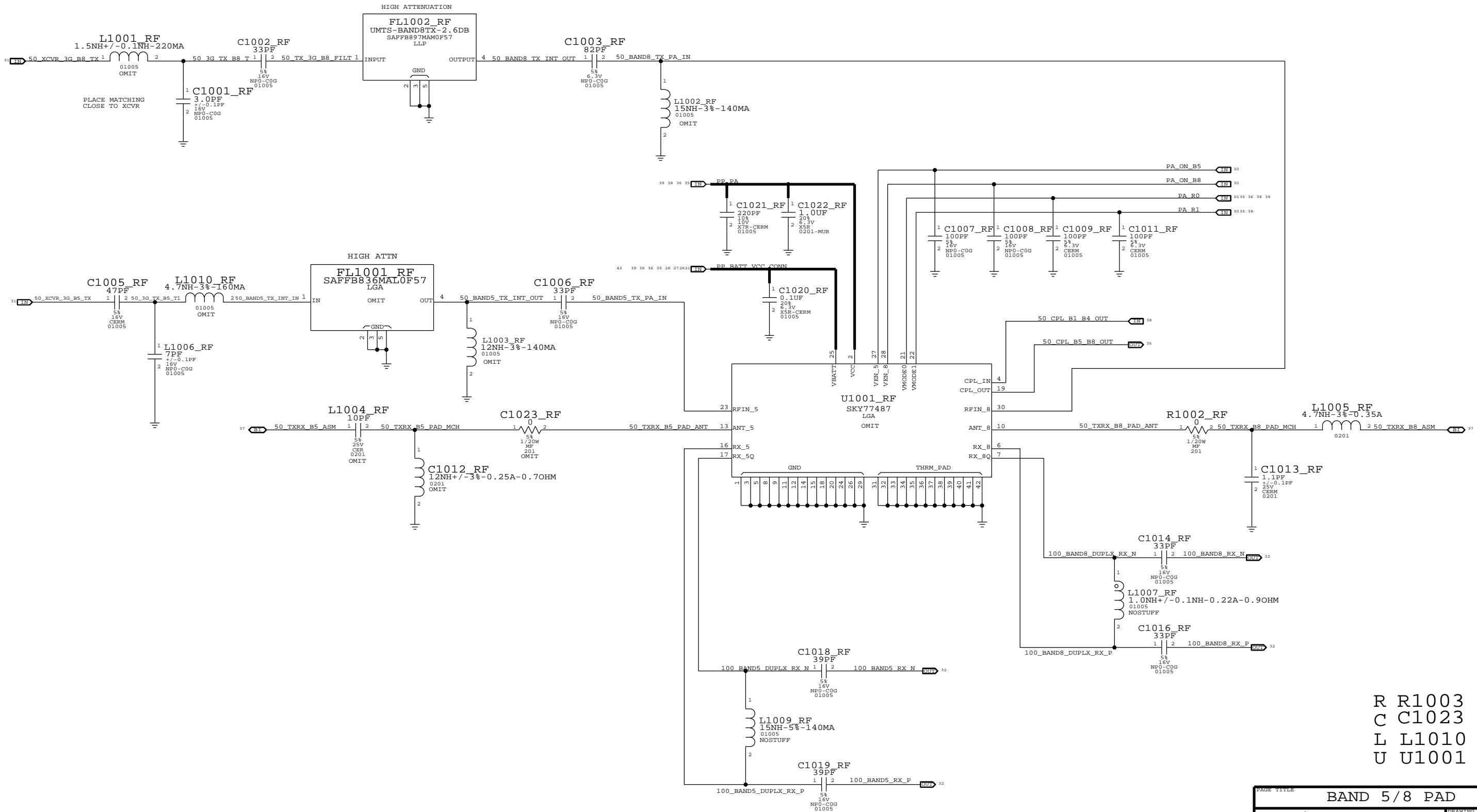
R R912
C C944
L L924
XW906

RF TRANSCEIVER (3 OF 3)

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BAND 5/8 PAD

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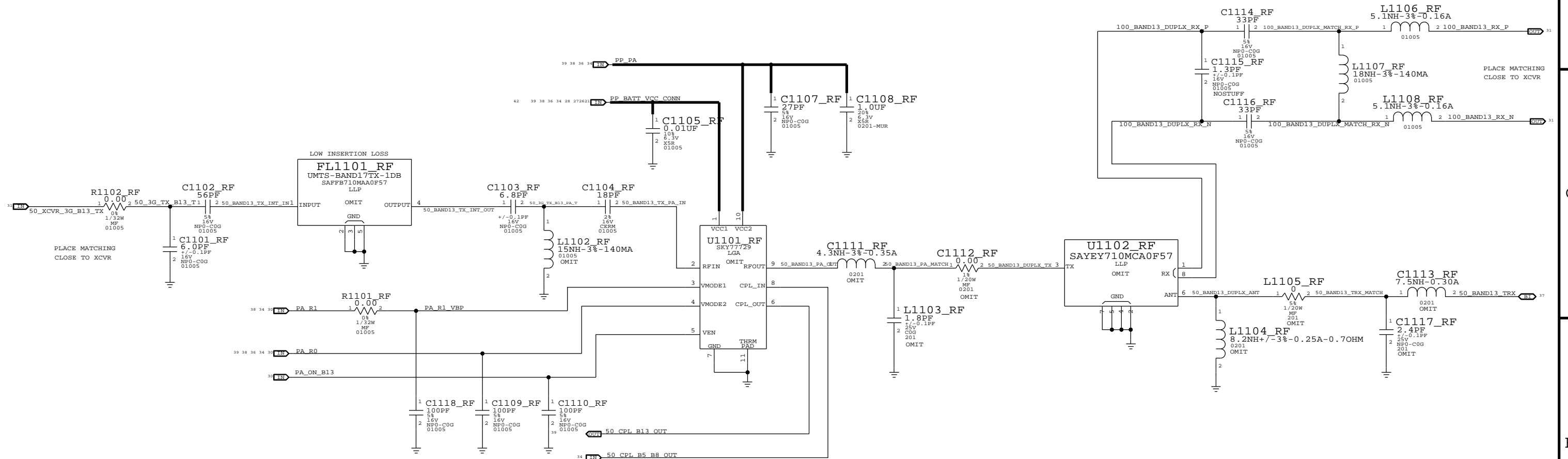


- R R1003
- C C1023
- L L1010
- U U1001

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B13/17 INTERSTAGE, PA, AND DUPLER

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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

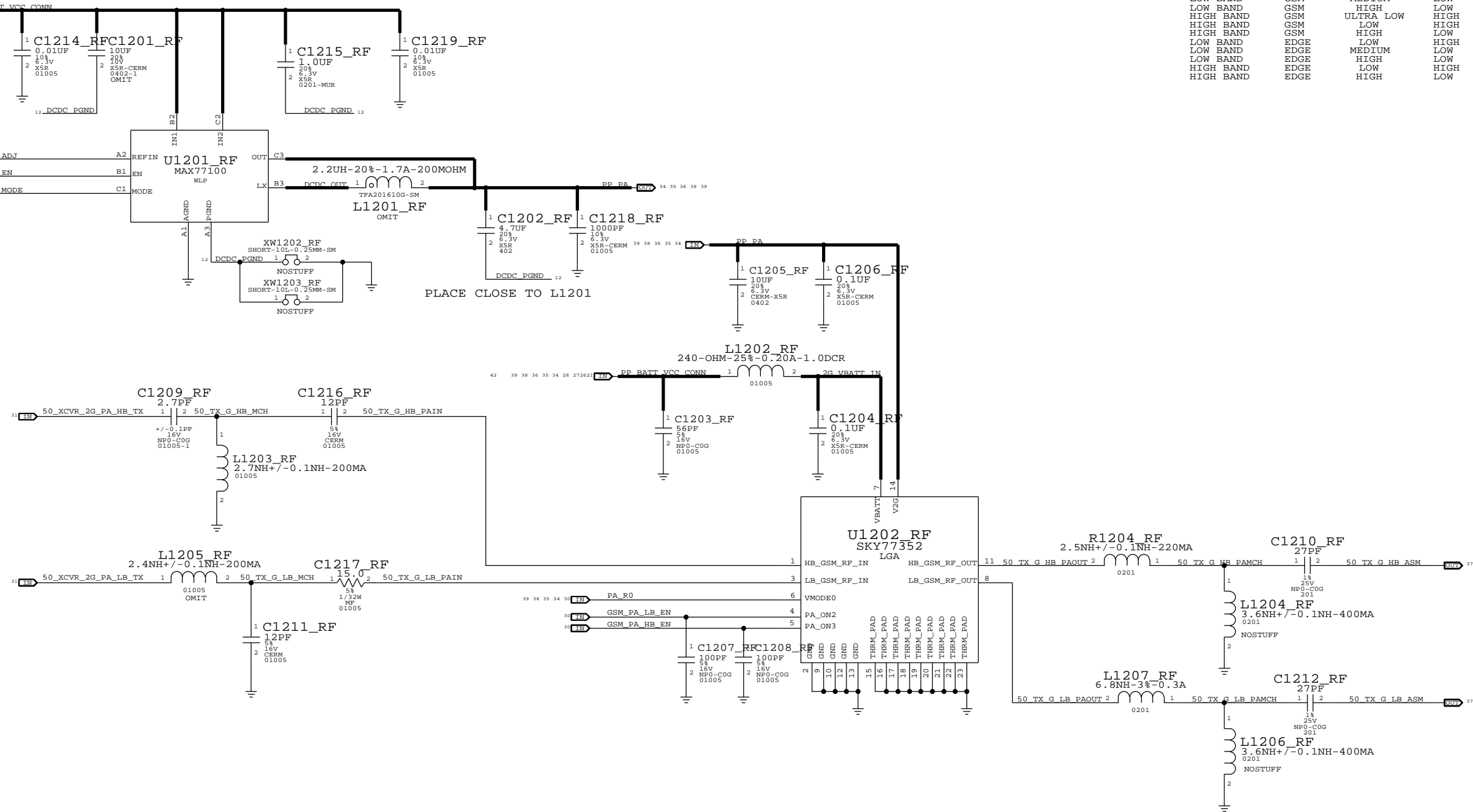
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2G PA, PA DC/DC CONVERTER

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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



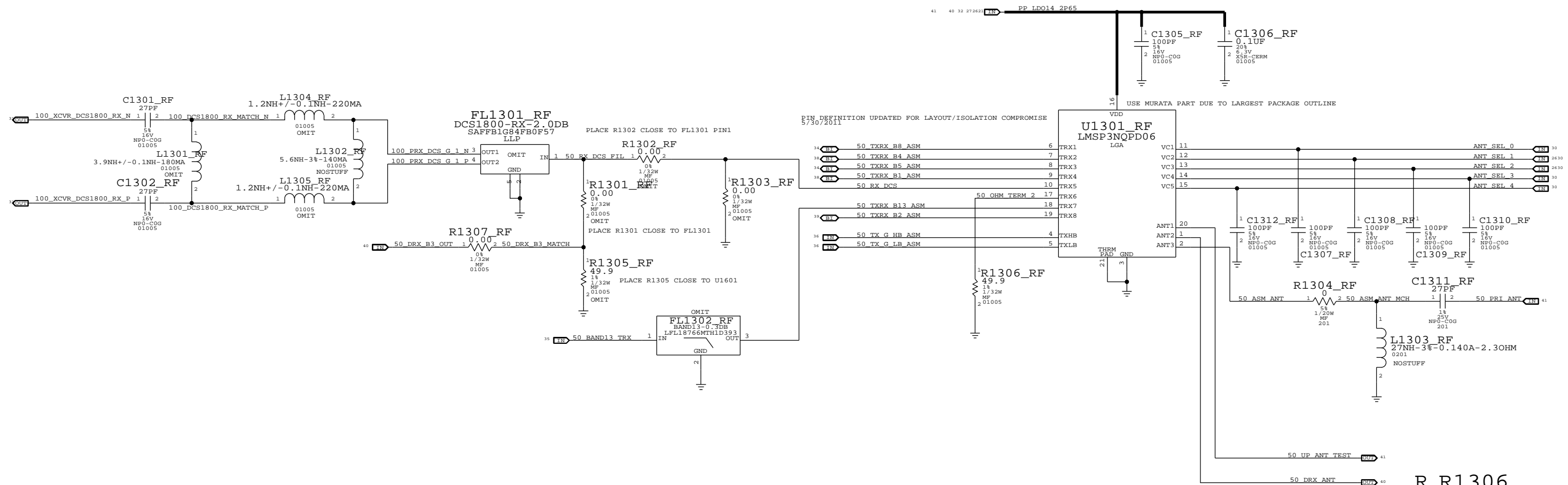
PLACE CLOSE TO L1201

R R1209
C C1220
L L1207
U U1202

PAGE TITLE		
2G PA, DCDC CONVERTER		
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ASM, DCS RX

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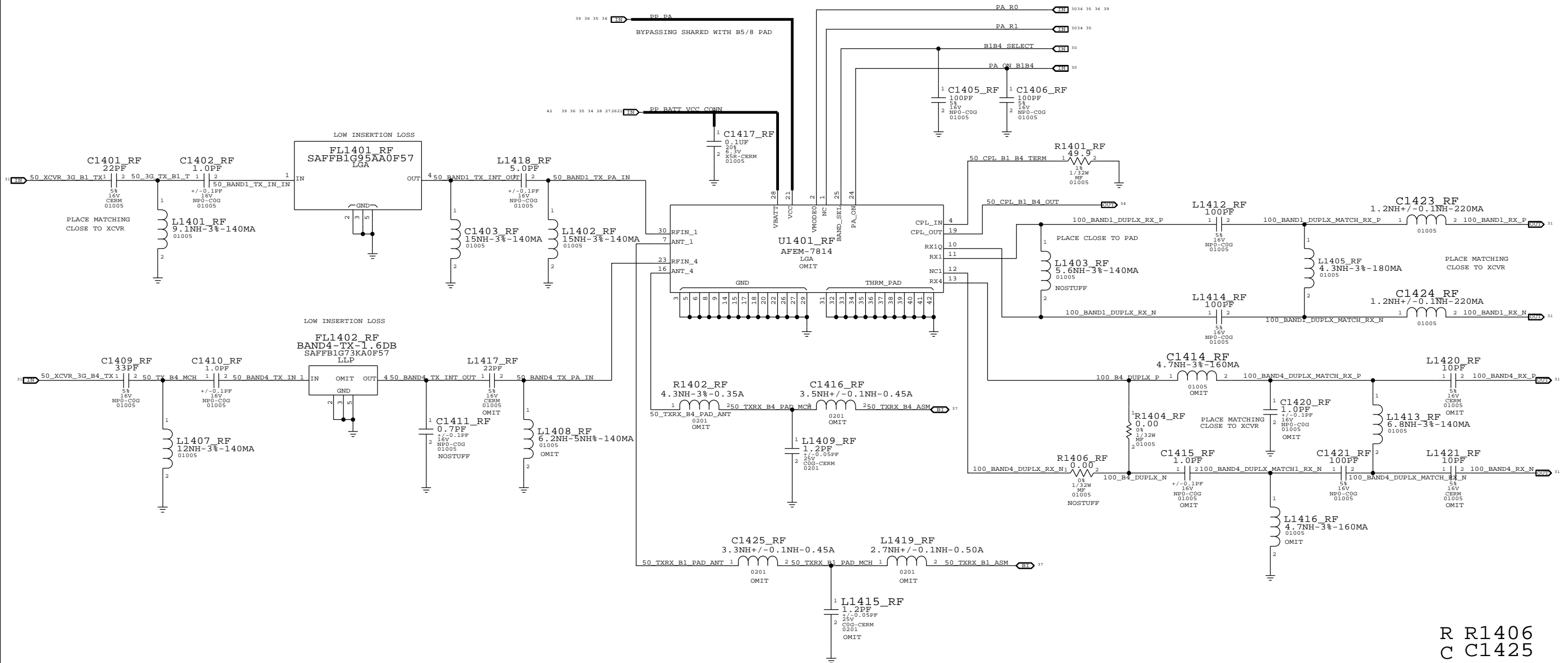


- R R1306
- C C1312
- L 1305
- U U1301
- FL FL1302

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DCS RX, ASM		
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BAND 1/4 PAD

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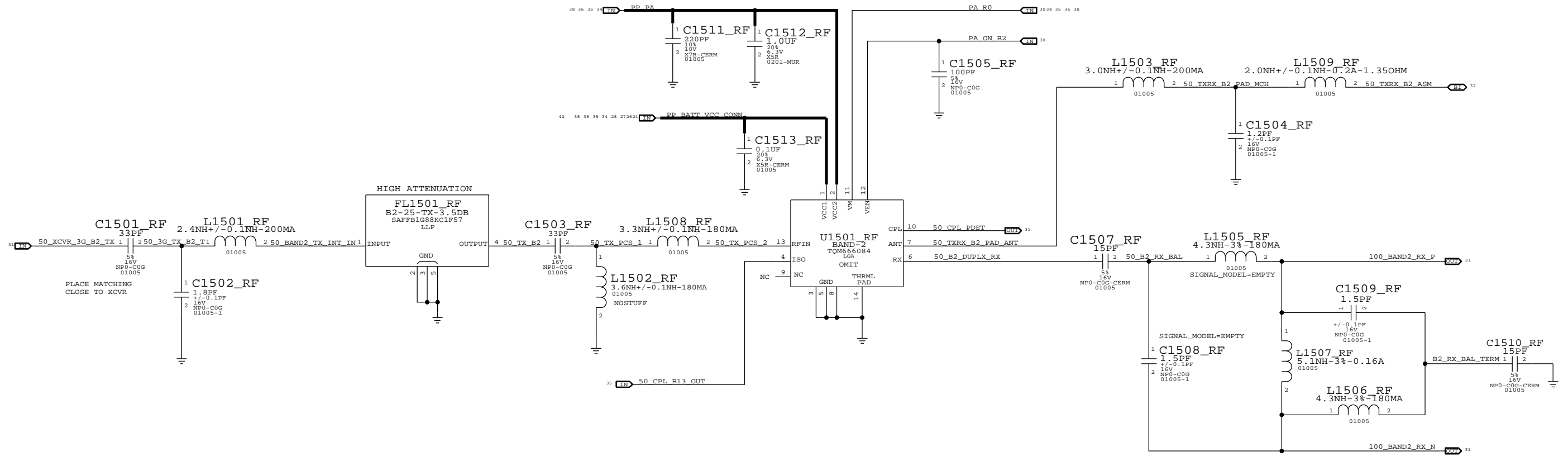


R R1406
 C C1425
 L L1422
 U U1401
 FL FL1101

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R R1501
 C C1513
 L L1509
 U U1501
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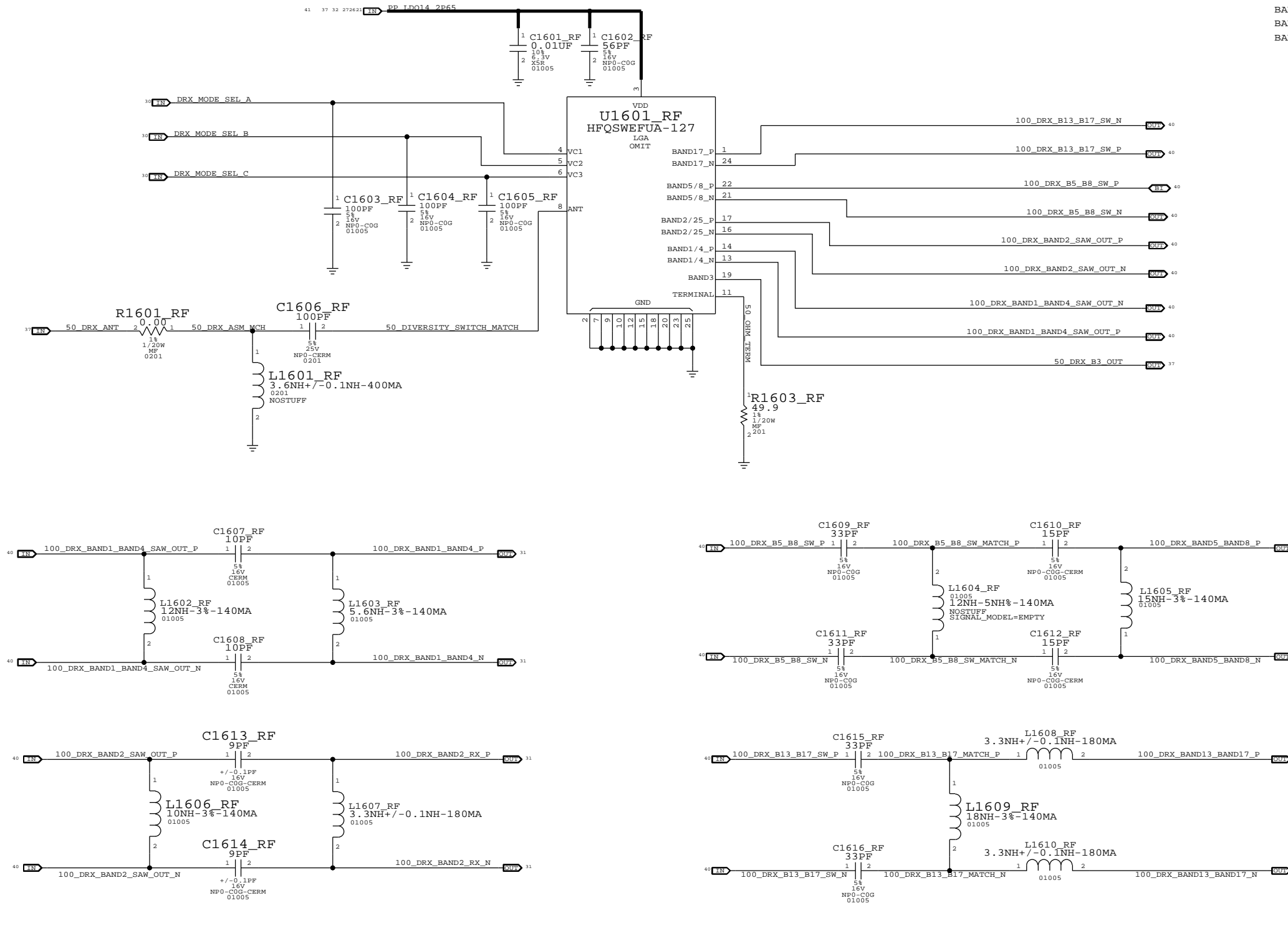
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RX DIVERSITY


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DIVERSITY MODULE LOGIC

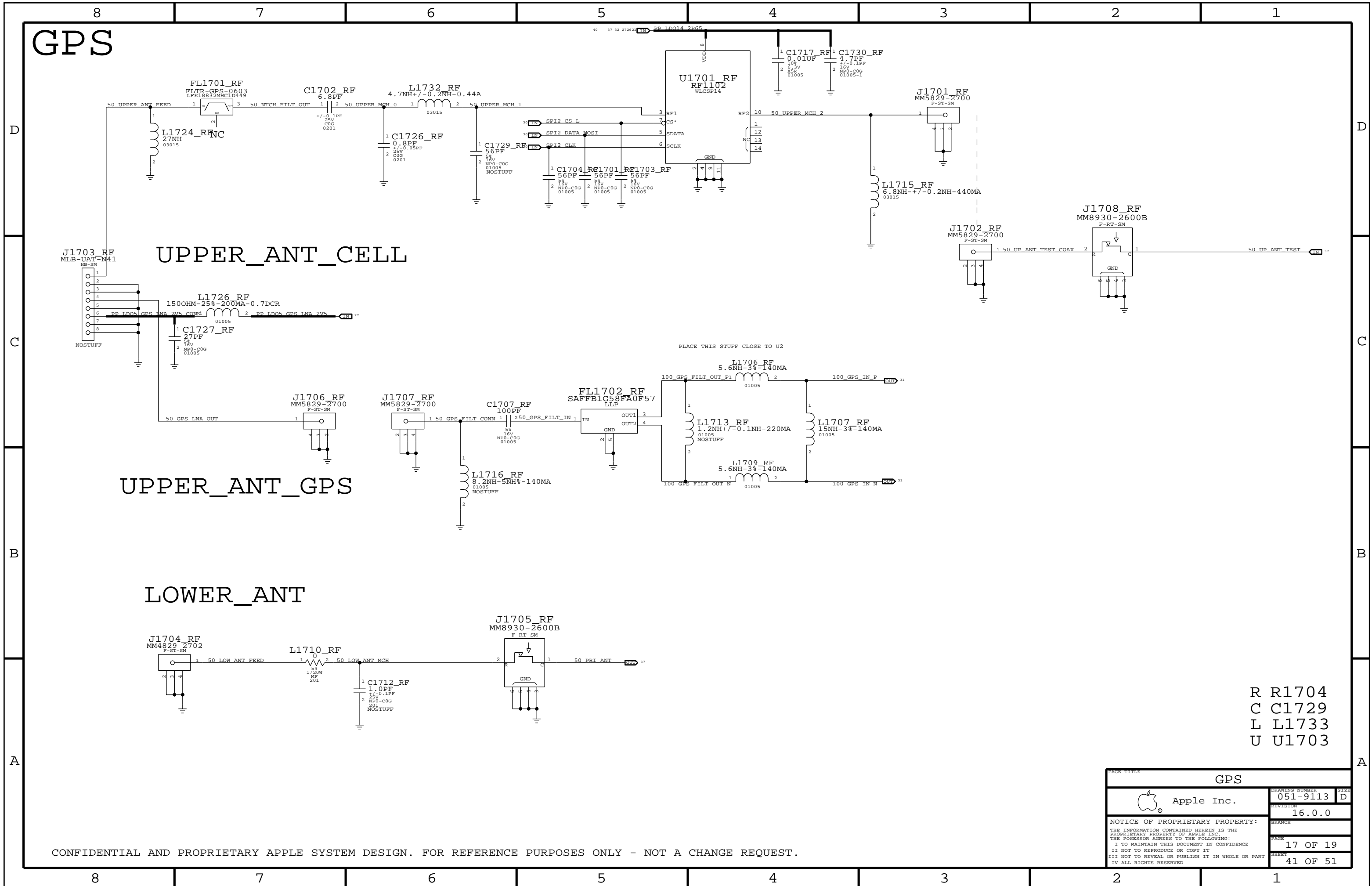
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=====			
BAND 1/4			
BAND 2			
BAND 5			
BAND 8			
BAND 13/17			



R R1603
C C1616
L L1610
U U1601

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GPS



UPPER_ANT_CELL

UPPER_ANT_GPS

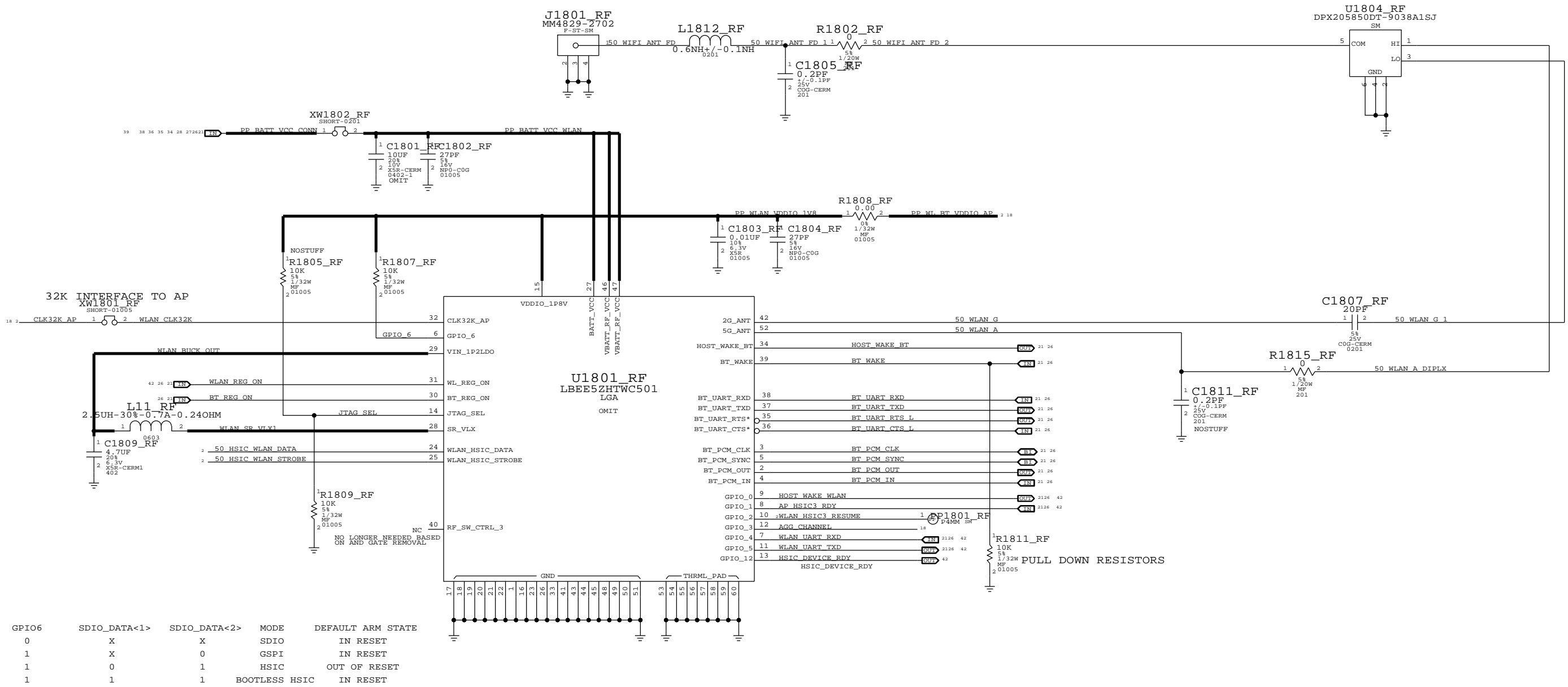
LOWER_ANT

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

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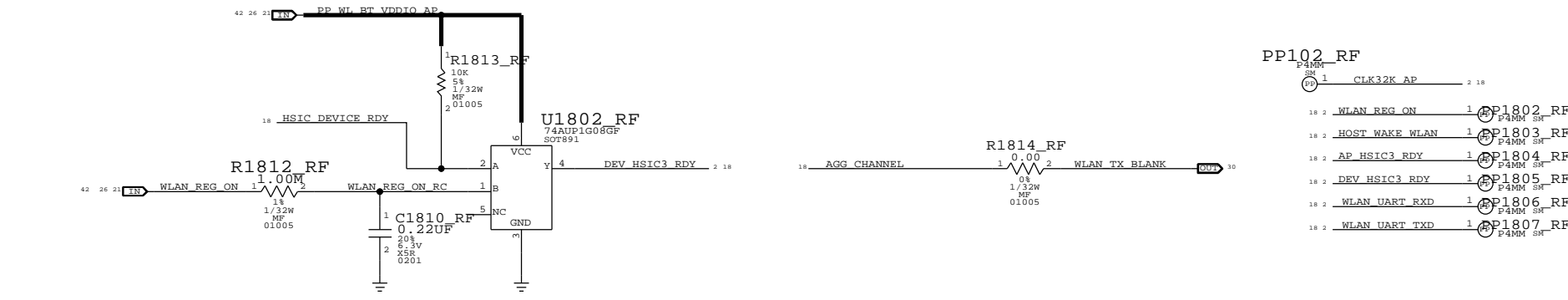
WLAN/BT

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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



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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
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
NEED TO COPY FROM AP TABLE
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 LFF	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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	8	7	6	5	4	3	2	1
D	Title: Basenet Report Design: single_brd Date: Jul 2 13:25:05 2012 Base nets and synonyms for single_brd.lib.SINGLE_BRD(@single_brd.lib.single_brd(sch_1)) Base Signal Synonyms Location([Zone][dir])		90_CAM0_MIPI_DATA3_C 90_CAM0_MIPI_DATA3_CONN_P - 20B4 90_CAM0_MIPI_DATA3_N @single_brd.lib.SINGLE_BRD 90_CAM0_MIPI_DATA3_N @single_brd.lib.SINGLE_BRD 7C5 20B1 90_CAM0_MIPI_DATA3_P @single_brd.lib.SINGLE_BRD 7C5 20B1 90_CAM1_MIPI_CLK_CON 90_CAM1_MIPI_CLK_CONN_N - 11C4 90_CAM1_MIPI_CLK_CON @single_brd.lib.SINGLE_BRD 90_CAM1_MIPI_CLK_N 90_CAM1_MIPI_CLK_P - 11C4 90_CAM1_MIPI_CLK_P @single_brd.lib.SINGLE_BRD 7C3 11D2 90_CAM1_MIPI_DATA0_C 90_CAM1_MIPI_DATA0_CONN_N - 7C3 11D2 90_CAM1_MIPI_DATA0_C @single_brd.lib.SINGLE_BRD 90_CAM1_MIPI_DATA0_N 90_CAM1_MIPI_DATA0_P - 11C4 90_CAM1_MIPI_DATA0_P @single_brd.lib.SINGLE_BRD 7C3 11C2 90_CODEC_MIKEY_N @single_brd.lib.SINGLE_BRD 7C3 11C2 90_CODEC_MIKEY_P @single_brd.lib.SINGLE_BRD 10C3 90_E_CONN_PAIR1_N 90_E_CONN_PAIR1_P - 16C4 22C4 90_E_CONN_PAIR1_P @single_brd.lib.SINGLE_BRD 90_E_CONN_PAIR2_N 90_E_CONN_PAIR2_P - 16C4 22C4 90_E_CONN_PAIR2_P @single_brd.lib.SINGLE_BRD 90_E_PAIR1_N 90_E_PAIR1_P - 15B4 16B2 90_E_PAIR1_P @single_brd.lib.SINGLE_BRD 90_E_PAIR2_N 90_E_PAIR2_P - 15B4 16B2 90_E_PAIR2_P @single_brd.lib.SINGLE_BRD 90_LCM_MIPI_CLK_CONN @single_brd.lib.SINGLE_BRD 18C5 90_LCM_MIPI_CLK_CONN_N 90_LCM_MIPI_CLK_CONN_P - 18C5 90_LCM_MIPI_CLK_N @single_brd.lib.SINGLE_BRD 7C5 18C7 90_LCM_MIPI_CLK_P @single_brd.lib.SINGLE_BRD 7C5 18C7 90_LCM_MIPI_DATA0_CO 90_LCM_MIPI_DATA0_CONN_N - 18C5 90_LCM_MIPI_DATA0_CO @single_brd.lib.SINGLE_BRD 90_LCM_MIPI_DATA0_CO_NN_N 90_LCM_MIPI_DATA0_CONN_P - 18C5 90_LCM_MIPI_DATA0_CO_NN_P @single_brd.lib.SINGLE_BRD 7C5 18C7 90_LCM_MIPI_DATA0_P 90_LCM_MIPI_DATA0_P - 7C5 18C7 90_LCM_MIPI_DATA0_P @single_brd.lib.SINGLE_BRD 90_LCM_MIPI_DATA1_CO 90_LCM_MIPI_DATA1_CONN_N - 18C5 90_LCM_MIPI_DATA1_CO @single_brd.lib.SINGLE_BRD 90_LCM_MIPI_DATA1_CO_NN_N 90_LCM_MIPI_DATA1_CONN_P - 18C5 90_LCM_MIPI_DATA1_CO_NN_P @single_brd.lib.SINGLE_BRD 7C5 18C7 90_LCM_MIPI_DATA1_P 90_LCM_MIPI_DATA1_P - 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2B4 90_USBHS_SOC_P @single_brd.lib.SINGLE_BRD ACCEL_INT1 @single_brd.lib.SINGLE_BRD 3B5 14A4 ACCEL_INT1_FL @single_brd.lib.SINGLE_BRD 14A5 14B8 ACCEL_INT2_FL @single_brd.lib.SINGLE_BRD 14A5 14B8 ACCEL_INT2_I @single_brd.lib.SINGLE_BRD 3A7 14A4 ACT_DIO @single_brd.lib.SINGLE_BRD 12C6 ADC_LD06_RUIM_IV8 ADC_LD06_RUIM_IV8 - 13B6 21C4 @single_brd.lib.SINGLE_BRD ADC_LD06_RUIM_IV8 @single_brd.lib.RADIO_MLB(1594_page 19) 26D5 ADC_LV51 ADC_LV51 - 13B6 21C4 @single_brd.lib.SINGLE_BRD ADC_LV51 @single_brd.lib.SINGLE_BRD 26D5 @single_brd.lib.RADIO_MLB(1594_page 19) ADC_SMPS1_MSMC_IV05 @single_brd.lib.SINGLE_BRD 13C6 21C4 @single_brd.lib.SINGLE_BRD ADC_SMPS1_MSMC_IV05 @single_brd.lib.SINGLE_BRD 26D5 @single_brd.lib.RADIO_MLB(1594_page 19) ADC_SMPS3_MSMC_IV8 ADC_SMPS3_MSMC_IV8 - 13C6 21C4 @single_brd.lib.SINGLE_BRD		@single_brd.lib.SINGLE_BRD 26D5 ADC_SMPS3_MSMC_IV8 - 26D5 @single_brd.lib.RADIO_MLB(1594_page 19) ALS_INT_CONN_L ALS_INT_CONN_L - 11C5 @single_brd.lib.SINGLE_BRD ALS_INT_L ALS_INT_L - 3A7 11B8 @single_brd.lib.SINGLE_BRD AP_HSIC1_RDY @single_brd.lib.SINGLE_BRD 3B7 21A4 @single_brd.lib.SINGLE_BRD AP_HSIC1_RDY @single_brd.lib.SINGLE_BRD 26C1 26D8 30B2 @single_brd.lib.RADIO_MLB(1594_page 19) AP_HSIC3_RDY AP_HSIC3_RDY - 3B5 21D1 @single_brd.lib.SINGLE_BRD AP_HSIC3_RDY @single_brd.lib.SINGLE_BRD 26B8 42A4 42B3 @single_brd.lib.RADIO_MLB(1594_page 19) AP_WAKE_MODEM AP_WAKE_MODEM - 3A7 21B4 @single_brd.lib.SINGLE_BRD AP_WAKE_MODEM @single_brd.lib.SINGLE_BRD 26D8 30B4 @single_brd.lib.RADIO_MLB(1594_page 19) BATTERY_NTC BATTERY_NTC - 12B7 21D5 22C8 @single_brd.lib.SINGLE_BRD BATTERY_NTC_CONN BATTERY_NTC_CONN - 21D7 21D7 @single_brd.lib.SINGLE_BRD BATTERY_SNS BATTERY_SNS - 12C6 21C6 22D8 @single_brd.lib.SINGLE_BRD BATTERY_SWI BATTERY_SWI - 3A5 13B6 21D5 @single_brd.lib.SINGLE_BRD BATTERY_SWI_CONN BATTERY_SWI_CONN - 21C7 21D7 @single_brd.lib.SINGLE_BRD BB_HSIC1_REMOTE_WAKE BB_HSIC1_REMOTE_WAKE - 3B7 21C4 @single_brd.lib.SINGLE_BRD BB_HSIC1_REMOTE_WAKE @single_brd.lib.SINGLE_BRD 26C8 30B2 @single_brd.lib.RADIO_MLB(1594_page 19) BB_JTAG_TCK BB_JTAG_TCK - 3B7 21D1 @single_brd.lib.SINGLE_BRD BB_JTAG_TCK @single_brd.lib.SINGLE_BRD 26B8 26C3 29B5 @single_brd.lib.RADIO_MLB(1594_page 19) BB_JTAG_TDI BB_JTAG_TDI - 3B7 21D1 @single_brd.lib.SINGLE_BRD BB_JTAG_TDI @single_brd.lib.SINGLE_BRD 26B8 26C3 29B5 @single_brd.lib.RADIO_MLB(1594_page 19) BB_JTAG_TDO BB_JTAG_TDO - 3B7 21D1 @single_brd.lib.SINGLE_BRD BB_JTAG_TDO @single_brd.lib.SINGLE_BRD 26A8 26C3 29B3 @single_brd.lib.RADIO_MLB(1594_page 19) BB_JTAG_TMS BB_JTAG_TMS - 3B7 21D1 @single_brd.lib.SINGLE_BRD BB_JTAG_TMS @single_brd.lib.SINGLE_BRD 26A8 26C3 29B5 @single_brd.lib.RADIO_MLB(1594_page 19) BB_JTAG_TRST_L BB_JTAG_TRST_L - 3A5 21D1 @single_brd.lib.SINGLE_BRD BB_JTAG_TRST_L @single_brd.lib.SINGLE_BRD 26A8 26C3 29B5 @single_brd.lib.RADIO_MLB(1594_page 19) BB_PP_SYNC BB_PP_SYNC - 3A5 21C4 @single_brd.lib.SINGLE_BRD BB_PP_SYNC @single_brd.lib.SINGLE_BRD 26C8 30B2 @single_brd.lib.RADIO_MLB(1594_page 19) BB_RESET_DET_L BB_RESET_DET_L - 3A5 21D4 @single_brd.lib.SINGLE_BRD BB_RESET_DET_L @single_brd.lib.SINGLE_BRD 26C1 26D8 30B4 @single_brd.lib.RADIO_MLB(1594_page 19) BB_RST_L BB_RST_L - 3B7 21D4 @single_brd.lib.SINGLE_BRD BB_RST_L @single_brd.lib.SINGLE_BRD 26C1 26D8 28C8 29B5 @single_brd.lib.RADIO_MLB(1594_page 19) BB_RST_PMU_L BB_RST_PMU_L - 13B7 21D4 @single_brd.lib.SINGLE_BRD BB_RST_PMU_L @single_brd.lib.SINGLE_BRD 26D3 26D8 28C8 @single_brd.lib.RADIO_MLB(1594_page 19) BB_RST_PMU_R_L BB_RST_PMU_R_L - 13B6 @single_brd.lib.SINGLE_BRD BB_VBUS_DET @single_brd.lib.SINGLE_BRD 13B3 21C4 @single_brd.lib.SINGLE_BRD BB_USB_VBUS @single_brd.lib.SINGLE_BRD 26C3 26C8 29A5 @single_brd.lib.RADIO_MLB(1594_page 19) BB_WAKE_AP BB_WAKE_AP - 13B6 21D4 @single_brd.lib.SINGLE_BRD BB_WAKE_AP @single_brd.lib.SINGLE_BRD 26C1 26D8 30B2 @single_brd.lib.RADIO_MLB(1594_page 19) BEK_GEES BEK_GEES - 3B7 14C6 @single_brd.lib.SINGLE_BRD BOARD_INFO BOARD_INFO - 3A7 3A7 3B5 3C8 @single_brd.lib.SINGLE_BRD BOOST_EN BOOST_EN - 17B2 17B5 @single_brd.lib.SINGLE_BRD BT_REG_ON BT_REG_ON - 13B7 21C4 @single_brd.lib.SINGLE_BRD BT_REG_ON @single_brd.lib.SINGLE_BRD 26B8 42C7 @single_brd.lib.RADIO_MLB(1594_page 19) BT_REG_ON_R BT_REG_ON_R - 13B6 @single_brd.lib.SINGLE_BRD BT_WAKE BT_WAKE - 3B7 21B4 @single_brd.lib.SINGLE_BRD BT_WAKE @single_brd.lib.SINGLE_BRD 26B8 42C3 @single_brd.lib.RADIO_MLB(1594_page 19) BUCK0A_FB BUCK0A_FB - 12C5 @single_brd.lib.SINGLE_BRD BUCK0A_LXL BUCK0A_LXL - 12C5 @single_brd.lib.SINGLE_BRD BUCK0A_LXM BUCK0A_LXM - 12C5 @single_brd.lib.SINGLE_BRD BUCK0B_FB BUCK0B_FB - 12C5 @single_brd.lib.SINGLE_BRD BUCK0B_LXL BUCK0B_LXL - 12C5 @single_brd.lib.SINGLE_BRD BUCK0B_LXM BUCK0B_LXM - 12C5 @single_brd.lib.SINGLE_BRD		BUCK0C_FB @single_brd.lib.SINGLE_BRD 12C5 BUCK0C_FB - BUCK0C_FB - 12C5 @single_brd.lib.SINGLE_BRD BUCK0C_LX BUCK0C_LX - 12C5 @single_brd.lib.SINGLE_BRD BUCK2_FB BUCK2_FB - 5A3 12C5 @single_brd.lib.SINGLE_BRD BUCK2_LXL BUCK2_LXL - 12C5 @single_brd.lib.SINGLE_BRD BUCK2_LXM BUCK2_LXM - 12C5 @single_brd.lib.SINGLE_BRD BUCK2_LXR BUCK2_LXR - 12C5 @single_brd.lib.SINGLE_BRD BUCK3_FB BUCK3_FB - 12B5 @single_brd.lib.SINGLE_BRD BUCK3_LX BUCK3_LX - 12B5 @single_brd.lib.SINGLE_BRD BUCK4_FB BUCK4_FB - 12B5 @single_brd.lib.SINGLE_BRD BUCK4_LXL BUCK4_LXL - 12B5 @single_brd.lib.SINGLE_BRD BUCK4_LXM BUCK4_LXM - 12B5 @single_brd.lib.SINGLE_BRD CAM0_CLK_CONN CAM0_CLK_CONN - 20C5 @single_brd.lib.SINGLE_BRD CAM0_I2C_SCL CAM0_I2C_SCL - 7D1 19C6 20C7 @single_brd.lib.SINGLE_BRD CAM0_I2C_SCL_CONN CAM0_I2C_SCL_CONN - 20B5 @single_brd.lib.SINGLE_BRD CAM0_I2C_SDA CAM0_I2C_SDA - 7D1 19C6 20C7 @single_brd.lib.SINGLE_BRD CAM0_I2C_SDA_CONN CAM0_I2C_SDA_CONN - 20B5 @single_brd.lib.SINGLE_BRD CAM0_SHUTDOWN CAM0_SHUTDOWN - 7C3 20C7 @single_brd.lib.SINGLE_BRD CAM0_SHUTDOWN_CONN CAM0_SHUTDOWN_CONN - 20C5 @single_brd.lib.SINGLE_BRD CAM0_STROBE_EN CAM0_STROBE_EN - 19C6 20C7 @single_brd.lib.SINGLE_BRD CAM0_STROBE_EN_CONN CAM0_STROBE_EN_CONN - 20B5 @single_brd.lib.SINGLE_BRD CAM0_STROBE_NTC CAM0_STROBE_NTC - 19C5 20A7 @single_brd.lib.SINGLE_BRD CAM0_STROBE_NTC_CONN CAM0_STROBE_NTC_CONN - 20B4 @single_brd.lib.SINGLE_BRD CAM0_TORCH CAM0_TORCH - 7D1 19C6 @single_brd.lib.SINGLE_BRD CAM0_VDDCORE_EN CAM0_VDDCORE_EN - 3A5 20B7 @single_brd.lib.SINGLE_BRD CAM1_CLK_CONN CAM1_CLK_CONN - 11C4 @single_brd.lib.SINGLE_BRD CAM1_I2C_SCL CAM1_I2C_SCL - 7D2 11D8 @single_brd.lib.SINGLE_BRD CAM1_I2C_SCL_CONN CAM1_I2C_SCL_CONN - 11C5 @single_brd.lib.SINGLE_BRD CAM1_I2C_SDA CAM1_I2C_SDA - 7C2 11C8 @single_brd.lib.SINGLE_BRD CAM1_I2C_SDA_CONN CAM1_I2C_SDA_CONN - 11C5 @single_brd.lib.SINGLE_BRD CAM1_SHUTDOWN CAM1_SHUTDOWN - 7C3 11D8 @single_brd.lib.SINGLE_BRD CAM1_SHUTDOWN_CONN_L CAM1_SHUTDOWN_CONN_L - 11C5 @single_brd.lib.SINGLE_BRD CLK32K_GRAPE_RESET_S @single_brd.lib.SINGLE_BRD 3B5 17B7 @single_brd.lib.SINGLE_BRD CLK32K_WIFI @single_brd.lib.SINGLE_BRD 13B6 13C6 21B4 @single_brd.lib.SINGLE_BRD CLK32K_AP @single_brd.lib.SINGLE_BRD 26C8 42A4 42C8 @single_brd.lib.RADIO_MLB(1594_page 19) CODEC_HPHONE_DET CODEC_HPHONE_DET - 10B5 16D8 @single_brd.lib.SINGLE_BRD CODEC_HS3 CODEC_HS3 - 10B4 10B6 16C8 @single_brd.lib.SINGLE_BRD CODEC_HS3_REF CODEC_HS3_REF - 10B4 10B4 @single_brd.lib.SINGLE_BRD CODEC_HS4 CODEC_HS4 - 10A6 10B4 16C8 @single_brd.lib.SINGLE_BRD CODEC_HS4_REF CODEC_HS4_REF - 10A4 10B4 @single_brd.lib.SINGLE_BRD CODEC_INT_L CODEC_INT_L - 3A7 9B2 @single_brd.lib.SINGLE_BRD CODEC_LDO_EN CODEC_LDO_EN - 10D2 @single_brd.lib.SINGLE_BRD CODEC_RESET_L CODEC_RESET_L - 9B2 @single_brd.lib.SINGLE_BRD CODEC_SPI_CLK CODEC_SPI_CLK - 3B5 9B2 @single_brd.lib.SINGLE_BRD CODEC_SPI_CS CODEC_SPI_CS - 3B5 9B2 @single_brd.lib.SINGLE_BRD CODEC_SPI_DIN CODEC_SPI_DIN - 3B5 9B2 @single_brd.lib.SINGLE_BRD CODEC_SPI_DOUT CODEC_SPI_DOUT - 3B5 9B2 @single_brd.lib.SINGLE_BRD COMPASS_INT_2 COMPASS_INT_2 - 3A7 14A4 @single_brd.lib.SINGLE_BRD COMPASS_SCREW COMPASS_SCREW - 14A6 @single_brd.lib.SINGLE_BRD COMP_INT_2 @single_brd.lib.SINGLE_BRD 14A5 14A7 @single_brd.lib.SINGLE_BRD CPU0_SENSE @single_brd.lib.SINGLE_BRD 5D7 @single_brd.lib.SINGLE_BRD CPU0_SWITCH @single_brd.lib.SINGLE_BRD 2B4 12C5 @single_brd.lib.SINGLE_BRD CPU0_SW_CONTROL @single_brd.lib.SINGLE_BRD 12C5 @single_brd.lib.SINGLE_BRD CPU0_SW_S CPU0_SW_S - 5D8 12C5 @single_brd.lib.SINGLE_BRD CPU1_SENSE CPU1_SENSE - 5C7 @single_brd.lib.SINGLE_BRD CPU1_SWITCH CPU1_SWITCH - 2B4 12C5 @single_brd.lib.SINGLE_BRD CPU1_SW_CONTROL CPU1_SW_CONTROL - 12C5 @single_brd.lib.SINGLE_BRD CPU1_SW_S CPU1_SW_S - 5C8 12C5 @single_brd.lib.SINGLE_BRD CUMULUS_IN<0> @single_brd.lib.SINGLE_BRD 17C2 17C7 @single_brd.lib.SINGLE_BRD CUMULUS_IN<1> @single_brd.lib.SINGLE_BRD 17C7 17D2 @single_brd.lib.SINGLE_BRD CUMULUS_IN<2> @single_brd.lib.SINGLE_BRD 17C7 17D2 @single_brd.lib.SINGLE_BRD CUMULUS_IN<3> @single_brd.lib.SINGLE_BRD 17C7 17D2 @single_brd.lib.SINGLE_BRD	
	C							
B								
	A							

	8	7	6	5	4	3	2	1				
	CUMULUS_IN<4>	CUMULUS_IN<4> - @single_brd.lib.SINGLE_BRD	17C2 17D2	E_ACC2_CONN	E_ACC2_CONN - @single_brd.lib.SINGLE_BRD	16B4 22B4	HS4_CONTROL_CONN	HS4_CONTROL_CONN - @single_brd.lib.SINGLE_BRD	16C5	INT_MIC3_N	INT_MIC3_N - @single_brd.lib.SINGLE_BRD	9B7 11B2
	CUMULUS_IN<5>	CUMULUS_IN<5> - @single_brd.lib.SINGLE_BRD	17C2 17C7	E_CONN_DETECT	E_CONN_DETECT - @single_brd.lib.SINGLE_BRD	16C4 22B5	HS4_REF	HS4_REF - @single_brd.lib.SINGLE_BRD	10A4 16D8	INT_MIC3_P	INT_MIC3_P - @single_brd.lib.SINGLE_BRD	9B7 11B2
	CUMULUS_IN<6>	CUMULUS_IN<6> - @single_brd.lib.SINGLE_BRD	17C7 17D2	E_CONN_TP	E_CONN_TP - @single_brd.lib.SINGLE_BRD	22B4	HS4_REF_CONN	HS4_REF_CONN - @single_brd.lib.SINGLE_BRD	16C4 16D5	INT_MIC3_RET	INT_MIC3_RET - @single_brd.lib.SINGLE_BRD	11C4
	CUMULUS_IN<7>	CUMULUS_IN<7> - @single_brd.lib.SINGLE_BRD	17C2 17C7	E_DETECT	E_DETECT - @single_brd.lib.SINGLE_BRD	13C2 16B2	I2C0_SCL_V18	I2C0_SCL_V18 - @single_brd.lib.SINGLE_BRD	3D2 13A4 13B6 14B1 14D6	IREF	IREF - @single_brd.lib.SINGLE_BRD	13C5
	CUMULUS_IN<8>	CUMULUS_IN<8> - @single_brd.lib.SINGLE_BRD	17C2 17C7	E_DET_PMU_TRISTAR	E_DET_PMU_TRISTAR - @single_brd.lib.SINGLE_BRD	13C4 15B4	I2C0_SDA_V18	I2C0_SDA_V18 - @single_brd.lib.SINGLE_BRD	15B4	IRLED_DRAIN	IRLED_DRAIN - @single_brd.lib.SINGLE_BRD	11C4
	CUMULUS_IN<9>	CUMULUS_IN<9> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FLASH_ENABLE	FLASH_ENABLE - @single_brd.lib.SINGLE_BRD	3B5 19C7	I2C1_SCL_V18	I2C1_SCL_V18 - @single_brd.lib.SINGLE_BRD	3D2 14A4	IRLED_K	IRLED_K - @single_brd.lib.SINGLE_BRD	11C4
	CUMULUS_IN<10>	CUMULUS_IN<10> - @single_brd.lib.SINGLE_BRD	17C7 17D2	FM10_ALE	FM10_ALE - @single_brd.lib.SINGLE_BRD	6B7 6C3	I2C1_SDA_V18	I2C1_SDA_V18 - @single_brd.lib.SINGLE_BRD	3D2 14A4	JTAG_SWCLK	JTAG_SWCLK - @single_brd.lib.SINGLE_BRD	2B6 15B5
	CUMULUS_IN<11>	CUMULUS_IN<11> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FM10_CEN0	FM10_CEN0 - @single_brd.lib.SINGLE_BRD	6C3 6C8	I2C2_SCL_V18	I2C2_SCL_V18 - @single_brd.lib.SINGLE_BRD	3D2 11B8	JTAG_SWDIO	JTAG_SWDIO - @single_brd.lib.SINGLE_BRD	2B6 15B5
	CUMULUS_IN<12>	CUMULUS_IN<12> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FM10_CLE	FM10_CLE - @single_brd.lib.SINGLE_BRD	6B7 6C3	I2C2_SDA_V18	I2C2_SDA_V18 - @single_brd.lib.SINGLE_BRD	3D2 11B8	KEEPFACT	KEEPFACT - @single_brd.lib.SINGLE_BRD	3B7 13C2
	CUMULUS_IN<13>	CUMULUS_IN<13> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FM10_DQVREF	FM10_DQVREF - @single_brd.lib.SINGLE_BRD	6B3 6B6 6B7 6B7 6C5	I2C_SCL_ALS	I2C_SCL_ALS - @single_brd.lib.SINGLE_BRD	11C5	L19_FILT	L19_FILT - @single_brd.lib.SINGLE_BRD	14D4
	CUMULUS_IN<14>	CUMULUS_IN<14> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FM10_IO<0>	FM10_IO<0> - @single_brd.lib.SINGLE_BRD	6B6 6C4 6C8	I2C_SCL_COMP	I2C_SCL_COMP - @single_brd.lib.SINGLE_BRD	14A5 14A7 14B6	L19_IREF	L19_IREF - @single_brd.lib.SINGLE_BRD	14C4
	CUMULUS_PROX_RX	CUMULUS_PROX_RX - @single_brd.lib.SINGLE_BRD	17C7	FM10_IO<1>	FM10_IO<1> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2C_SDA_ALS	I2C_SDA_ALS - @single_brd.lib.SINGLE_BRD	11C5	L19_LDO_FILT	L19_LDO_FILT - @single_brd.lib.SINGLE_BRD	14D4
	CUMULUS_VDDANA	CUMULUS_VDDANA - @single_brd.lib.SINGLE_BRD	17D7	FM10_IO<2>	FM10_IO<2> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2C_SDA_COMP	I2C_SDA_COMP - @single_brd.lib.SINGLE_BRD	14A5 14A7 14B6	L19_SES_N	L19_SES_N - @single_brd.lib.SINGLE_BRD	14D4
	CUMULUS_VDDCORE	CUMULUS_VDDCORE - @single_brd.lib.SINGLE_BRD	17D7	FM10_IO<3>	FM10_IO<3> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2S0_DIN	I2S0_DIN - @single_brd.lib.SINGLE_BRD	3D4 9C2	L19_SES_P	L19_SES_P - @single_brd.lib.SINGLE_BRD	14D4
	CUMULUS_VSTM_OUT<0>	CUMULUS_VSTM_OUT<0> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM10_IO<4>	FM10_IO<4> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2S0_DOUT	I2S0_DOUT - @single_brd.lib.SINGLE_BRD	3D4 9C2	L19_SWITCH	L19_SWITCH - @single_brd.lib.SINGLE_BRD	14D6
	CUMULUS_VSTM_OUT<1>	CUMULUS_VSTM_OUT<1> - @single_brd.lib.SINGLE_BRD	17B3 17C5	FM10_IO<5>	FM10_IO<5> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2S0_LRCLK	I2S0_LRCLK - @single_brd.lib.SINGLE_BRD	3D4 9C2	L19_VSENSE_N	L19_VSENSE_N - @single_brd.lib.SINGLE_BRD	14D4
	CUMULUS_VSTM_OUT<2>	CUMULUS_VSTM_OUT<2> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM10_IO<6>	FM10_IO<6> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2S1_DIN	I2S1_DIN - @single_brd.lib.SINGLE_BRD	3D4 21C4	L19_VSENSE_P	L19_VSENSE_P - @single_brd.lib.SINGLE_BRD	14D4
	CUMULUS_VSTM_OUT<3>	CUMULUS_VSTM_OUT<3> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM10_IO<7>	FM10_IO<7> - @single_brd.lib.SINGLE_BRD	6C4 6C8	BB_I2S_TXD	BB_I2S_TXD - @single_brd.lib.RADIO_MLB(1594_page 19)	26C8 30B4	L65_FILT+	L65_FILT+ - @single_brd.lib.SINGLE_BRD	10B4
	CUMULUS_VSTM_OUT<4>	CUMULUS_VSTM_OUT<4> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM10_WE_L	FM10_WE_L - @single_brd.lib.SINGLE_BRD	6B7 6C3	I2S1_DOUT	I2S1_DOUT - @single_brd.lib.SINGLE_BRD	3D4 21C4	L65_VCCPFLT+	L65_VCCPFLT+ - @single_brd.lib.SINGLE_BRD	10C4
	CUMULUS_VSTM_OUT<5>	CUMULUS_VSTM_OUT<5> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_ALE	FM11_ALE - @single_brd.lib.SINGLE_BRD	6B6 6C3	BB_I2S_RXD	BB_I2S_RXD - @single_brd.lib.RADIO_MLB(1594_page 19)	26C8 30B4	L65_VCCPFLT-	L65_VCCPFLT- - @single_brd.lib.SINGLE_BRD	10C4
	CUMULUS_VSTM_OUT<6>	CUMULUS_VSTM_OUT<6> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_CEN0	FM11_CEN0 - @single_brd.lib.SINGLE_BRD	6C3 6C6	I2S1_LRCLK	I2S1_LRCLK - @single_brd.lib.SINGLE_BRD	3D4 21C4	LAT_SW1_CTL	LAT_SW1_CTL - @single_brd.lib.RADIO_MLB(1594_page 19)	16C5 21A4
	CUMULUS_VSTM_OUT<7>	CUMULUS_VSTM_OUT<7> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_CLE	FM11_CLE - @single_brd.lib.SINGLE_BRD	6B6 6C3	BB_I2S_MS	BB_I2S_MS - @single_brd.lib.RADIO_MLB(1594_page 19)	26C8 30B4	LCD_BL_CA	LCD_BL_CA - @single_brd.lib.SINGLE_BRD	13B1 18D1
	CUMULUS_VSTM_OUT<8>	CUMULUS_VSTM_OUT<8> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_IO<0>	FM11_IO<0> - @single_brd.lib.SINGLE_BRD	6C5	I2S2_DIN	I2S2_DIN - @single_brd.lib.SINGLE_BRD	3D4 9B2 14C5	LCD_BL_CA_CONN	LCD_BL_CA_CONN - @single_brd.lib.SINGLE_BRD	18C4 22D4
	CUMULUS_VSTM_OUT<9>	CUMULUS_VSTM_OUT<9> - @single_brd.lib.SINGLE_BRD	17C5	FM11_IO<1>	FM11_IO<1> - @single_brd.lib.SINGLE_BRD	6C5	I2S2_DOUT	I2S2_DOUT - @single_brd.lib.SINGLE_BRD	3D4 9C2 14C5	LCD_BL_CC1	LCD_BL_CC1 - @single_brd.lib.SINGLE_BRD	13A2 18D1
	CUMULUS_VSTM_OUT<10>	CUMULUS_VSTM_OUT<10> - @single_brd.lib.SINGLE_BRD	17C5	FM11_IO<2>	FM11_IO<2> - @single_brd.lib.SINGLE_BRD	6C5	I2S2_LRCLK	I2S2_LRCLK - @single_brd.lib.SINGLE_BRD	3D4 9C2 14C5	LCD_BL_CC1_CONN	LCD_BL_CC1_CONN - @single_brd.lib.SINGLE_BRD	18C4 22D4
	CUMULUS_VSTM_OUT<11>	CUMULUS_VSTM_OUT<11> - @single_brd.lib.SINGLE_BRD	17B3 17C5	FM11_IO<3>	FM11_IO<3> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_DIN	I2S3_DIN - @single_brd.lib.SINGLE_BRD	3C4 21B4	LCD_BL_CC2	LCD_BL_CC2 - @single_brd.lib.SINGLE_BRD	13A2 18D1
	CUMULUS_VSTM_OUT<12>	CUMULUS_VSTM_OUT<12> - @single_brd.lib.SINGLE_BRD	17B3 17C5	FM11_IO<4>	FM11_IO<4> - @single_brd.lib.SINGLE_BRD	6C5	BT_PCM_OUT	BT_PCM_OUT - @single_brd.lib.RADIO_MLB(1594_page 19)	26B8 42B3	LCD_BL_CC2_CONN	LCD_BL_CC2_CONN - @single_brd.lib.SINGLE_BRD	18C4 22D4
	CUMULUS_VSTM_OUT<13>	CUMULUS_VSTM_OUT<13> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_IO<5>	FM11_IO<5> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_DOUT	I2S3_DOUT - @single_brd.lib.SINGLE_BRD	3C4 21B4	LCD_DESENSE	LCD_DESENSE - @single_brd.lib.SINGLE_BRD	13A2
	CUMULUS_VSTM_OUT<14>	CUMULUS_VSTM_OUT<14> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_IO<6>	FM11_IO<6> - @single_brd.lib.SINGLE_BRD	6C5	BT_PCM_IN	BT_PCM_IN - @single_brd.lib.RADIO_MLB(1594_page 19)	26B8 42B3	LCD_DESENSE_CONN	LCD_DESENSE_CONN - @single_brd.lib.SINGLE_BRD	18D4
	CUMULUS_VSTM_OUT<15>	CUMULUS_VSTM_OUT<15> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_IO<7>	FM11_IO<7> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_LRCLK	I2S3_LRCLK - @single_brd.lib.SINGLE_BRD	3C4 21B4	LCD_HIFA_BSYN	LCD_HIFA_BSYN - @single_brd.lib.SINGLE_BRD	3B7 17A1 17B2 18B1
	CUMULUS_VSTM_OUT<16>	CUMULUS_VSTM_OUT<16> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FM11_WE_L	FM11_WE_L - @single_brd.lib.SINGLE_BRD	6B6 6C3	GCM_SEL	GCM_SEL - @single_brd.lib.SINGLE_BRD	17B2 17B5	LCD_HIFA_BSYN_CONN	LCD_HIFA_BSYN_CONN - @single_brd.lib.SINGLE_BRD	18C4
	CUMULUS_VSTM_OUT<17>	CUMULUS_VSTM_OUT<17> - @single_brd.lib.SINGLE_BRD	17B5 17C3	FORCE_DFU	FORCE_DFU - @single_brd.lib.SINGLE_BRD	3A7 22B8	GRAPE_INT_L	GRAPE_INT_L - @single_brd.lib.SINGLE_BRD	3B7 17B8	LCD_PANIC_L_CONN	LCD_PANIC_L_CONN - @single_brd.lib.SINGLE_BRD	18C4
	CUMULUS_VSTM_OUT<18>	CUMULUS_VSTM_OUT<18> - @single_brd.lib.SINGLE_BRD	17B5 17C3	GCM_SEL	GCM_SEL - @single_brd.lib.SINGLE_BRD	17B2 17B5	GRAPE_RESET_L	GRAPE_RESET_L - @single_brd.lib.SINGLE_BRD	3A7 17B7	LCD_PIFA	LCD_PIFA - @single_brd.lib.SINGLE_BRD	18C4
	CUMULUS_VSTM_OUT<19>	CUMULUS_VSTM_OUT<19> - @single_brd.lib.SINGLE_BRD	17B5 17C3	GRAPE_INT_L	GRAPE_INT_L - @single_brd.lib.SINGLE_BRD	3B7 17B8	GYRO_DEN	GYRO_DEN - @single_brd.lib.SINGLE_BRD	14B2	LCD_PIFA_R	LCD_PIFA_R - @single_brd.lib.SINGLE_BRD	3C4 18B1
	DDR0_VREF_CA	DDR0_VREF_CA - @single_brd.lib.SINGLE_BRD	4A7 4D6	GRAPE_RESET_L	GRAPE_RESET_L - @single_brd.lib.SINGLE_BRD	3A7 17B7	GYRO_INT1	GYRO_INT1 - @single_brd.lib.SINGLE_BRD	3A7 14B2	LCD_PWR_EN	LCD_PWR_EN - @single_brd.lib.SINGLE_BRD	13B2 13B4 13C6 18C1 19A6
	DDR0_VREF_DQ	DDR0_VREF_DQ - @single_brd.lib.SINGLE_BRD	4A5 4D6	GYRO_DEN	GYRO_DEN - @single_brd.lib.SINGLE_BRD	14B2	GYRO_INT2	GYRO_INT2 - @single_brd.lib.SINGLE_BRD	3B5 14B2	LCD_PWR_EN_CONN	LCD_PWR_EN_CONN - @single_brd.lib.SINGLE_BRD	19C4
	DDR0_ZQ	DDR0_ZQ - @single_brd.lib.SINGLE_BRD	4D6 4D6	GYRO_INT1	GYRO_INT1 - @single_brd.lib.SINGLE_BRD	3A7 14B2	GYRO_PUMP	GYRO_PUMP - @single_brd.lib.SINGLE_BRD	14B2	LCD_RESET_L	LCD_RESET_L - @single_brd.lib.SINGLE_BRD	3B7 18B1 19B6
	DDR1_VREF_CA	DDR1_VREF_CA - @single_brd.lib.SINGLE_BRD	4A6 4D6	GYRO_INT2	GYRO_INT2 - @single_brd.lib.SINGLE_BRD	3B5 14B2	HIFA_BUFF_INV	HIFA_BUFF_INV - @single_brd.lib.SINGLE_BRD	17A2	LCD_RESET_L_CONN	LCD_RESET_L_CONN - @single_brd.lib.SINGLE_BRD	18C4
	DDR1_VREF_DQ	DDR1_VREF_DQ - @single_brd.lib.SINGLE_BRD	4A4 4D6	INT_M42	INT_M42 - @single_brd.lib.SINGLE_BRD	3C4 3C8	HOLD_KEY_BUFF_L	HOLD_KEY_BUFF_L - @single_brd.lib.SINGLE_BRD	3A3 3B7 13C4 13C6	LCM_SWITCH	LCM_SWITCH - @single_brd.lib.SINGLE_BRD	13B4
	DDR1_ZQ	DDR1_ZQ - @single_brd.lib.SINGLE_BRD	4D6 4D6	INT_MIC1_BIAS	INT_MIC1_BIAS - @single_brd.lib.SINGLE_BRD	9C6 16C2	HOLD_KEY_CONN_L	HOLD_KEY_CONN_L - @single_brd.lib.SINGLE_BRD	8B5	LCM_VBOOST	LCM_VBOOST - @single_brd.lib.SINGLE_BRD	13B4
	DEV_H3IC3_RDY	DEV_H3IC3_RDY - @single_brd.lib.SINGLE_BRD	3B5 21D1	INT_MIC1_BIAS_FILT	INT_MIC1_BIAS_FILT - @single_brd.lib.SINGLE_BRD	9C6	HOST_RESET	HOST_RESET - @single_brd.lib.SINGLE_BRD	13A7 15B3	LED_BOOST_OUT	LED_BOOST_OUT - @single_brd.lib.SINGLE_BRD	19D5
	DISCHARGE_R	DISCHARGE_R - @single_brd.lib.SINGLE_BRD	19B3	INT_MIC1_CODECN_N	INT_MIC1_CODECN_N - @single_brd.lib.SINGLE_BRD	9C6	HOST_WAKE_BT	HOST_WAKE_BT - @single_brd.lib.SINGLE_BRD	13B6 21B4	LED_DRIVE_GSM	LED_DRIVE_GSM - @single_brd.lib.SINGLE_BRD	19C6 21C4
	DIS_CONTROL	DIS_CONTROL - @single_brd.lib.SINGLE_BRD	19B4	INT_MIC1_CODECN_P	INT_MIC1_CODECN_P - @single_brd.lib.SINGLE_BRD	9C6	DIS_GATE	DIS_GATE - @single_brd.lib.SINGLE_BRD	26B8 42C3	LED_DRIVE_OUT	LED_DRIVE_OUT - @single_brd.lib.SINGLE_BRD	19C5 20C3
	DIS_GATE	DIS_GATE - @single_brd.lib.SINGLE_BRD	19B4	INT_MIC1_CONN_BIAS	INT_MIC1_CONN_BIAS - @single_brd.lib.SINGLE_BRD	16C4 16C5	DIS_NODE	DIS_NODE - @single_brd.lib.SINGLE_BRD	19A4	LED_DRV_LX	LED_DRV_LX - @single_brd.lib.SINGLE_BRD	19D6
	DIS_NODE	DIS_NODE - @single_brd.lib.SINGLE_BRD	19A4	INT_MIC1_CONN_N	INT_MIC1_CONN_N - @single_brd.lib.SINGLE_BRD	16C3	DIS_RC	DIS_RC - @single_brd.lib.SINGLE_BRD	19A5	LINEINA	LINEINA - @single_brd.lib.SINGLE_BRD	10C5
	DIS_RC	DIS_RC - @single_brd.lib.SINGLE_BRD	19A5	INT_MIC1_CONN_P	INT_MIC1_CONN_P - @single_brd.lib.SINGLE_BRD	16C4 16C5 22C6	DIS_RESET	DIS_RESET - @single_brd.lib.SINGLE_BRD	19B5	LINEINB	LINEINB - @single_brd.lib.SINGLE_BRD	10C5
	DUMP_GATE	DUMP_GATE - @single_brd.lib.SINGLE_BRD	19B7	INT_MIC2_BIAS	INT_MIC2_BIAS - @single_brd.lib.SINGLE_BRD	8B5	DUMP_GATE	DUMP_GATE - @single_brd.lib.SINGLE_BRD	19B7	MIKEY_INT_L	MIKEY_INT_L - @single_brd.lib.SINGLE_BRD	9B2 13B6
	DWI_AP_DI	DWI_AP_DI - @single_brd.lib.SINGLE_BRD	3D3 13B7	INT_MIC2_BIAS_FILT	INT_MIC2_BIAS_FILT - @single_brd.lib.SINGLE_BRD	9C6	DWI_AP_DI	DWI_AP_DI - @single_brd.lib.SINGLE_BRD	3D3 13B7	MIKEY_TEST_NEG	MIKEY_TEST_NEG - @single_brd.lib.SINGLE_BRD	13C6 15B7
	EXT_MIC_BIAS	EXT_MIC_BIAS - @single_brd.lib.SINGLE_BRD	10C6	INT_MIC2_CODECN_N	INT_MIC2_CODECN_N - @single_brd.lib.SINGLE_BRD	9C6	EXT_MIC_BIAS	EXT_MIC_BIAS - @single_brd.lib.SINGLE_BRD	10C6	MIKEY_TEST_POS	MIKEY_TEST_POS - @single_brd.lib.SINGLE_BRD	13C6 15C7
	EXT_MIC_BIAS_FILT	EXT_MIC_BIAS_FILT - @single_brd.lib.SINGLE_BRD	10B6	INT_MIC2_CODECN_P	INT_MIC2_CODECN_P - @single_brd.lib.SINGLE_BRD	9C6	EXT_MIC_BIAS_FILT	EXT_MIC_BIAS_FILT - @single_brd.lib.SINGLE_BRD	10C6	MIP10D_VREG	MIP10D_VREG - @single_brd.lib.SINGLE_BRD	7D3
	EXT_MIC_BIAS_FILT_IN	EXT_MIC_BIAS_FILT_IN - @single_brd.lib.SINGLE_BRD	10B6	INT_MIC2_CONN_N	INT_MIC2_CONN_N - @single_brd.lib.SINGLE_BRD	8B5	EXT_MIC_CODECN_N	EXT_MIC_CODECN_N - @single_brd.lib.SINGLE_BRD	10C6	MIP11D_VREG	MIP11D_VREG - @single_brd.lib.SINGLE_BRD	7D3
	EXT_MIC_BIAS_IN	EXT_MIC_BIAS_IN - @single_brd.lib.SINGLE_BRD	10C6	INT_MIC2_CONN_P	INT_MIC2_CONN_P - @single_brd.lib.SINGLE_BRD	8B5 22C6	EXT_MIC_CODECN_P	EXT_MIC_CODECN_P - @single_brd.lib.SINGLE_BRD	10C6	NAND_RDYBSY_L	NAND_RDYBSY_L - @single_brd.lib.SINGLE_BRD	6C2
	EXT_MIC_CODECN_N	EXT_MIC_CODECN_N - @single_brd.lib.SINGLE_BRD	10C6	INT_MIC2_N	INT_MIC2_N - @single_brd.lib.SINGLE_BRD	8B2 9C7	EXT_MIC_CONN_N	EXT_MIC_CONN_N - @single_brd.lib.SINGLE_BRD	10A7	NAND_TCKC	NAND_TCKC - @single_brd.lib.SINGLE_BRD	6B4
	EXT_MIC_CODECN_P	EXT_MIC_CODECN_P - @single_brd.lib.SINGLE_BRD	10C6	INT_MIC2_P	INT_MIC2_P - @single_brd.lib.SINGLE_BRD	8B2 9C7	EXT_MIC_CONN_P	EXT_MIC_CONN_P - @single_brd.lib.SINGLE_BRD	10A7	NAND_TMSC	NAND_TMSC - @single_brd.lib.SINGLE_BRD	6B4
	EXT_MIC_CONN_N	EXT_MIC_CONN_N - @single_brd.lib.SINGLE_BRD	10B7	INT_MIC2_RET	INT_MIC2_RET - @single_brd.lib.SINGLE_BRD	8B4	EXT_MIC_N	EXT_MIC_N - @single_brd.lib.SINGLE_BRD	10C7			
	EXT_MIC_CONN_P	EXT_MIC_CONN_P - @single_brd.lib.SINGLE_BRD	10A7	INT_MIC3_BIAS_CONN	INT_MIC3_BIAS_CONN - @single_brd.lib.SINGLE_BRD	11C4	EXT_MIC_P	EXT_MIC_P - @single_brd.lib.SINGLE_BRD	10C7			
	E_ACC1	E_ACC1 - @single_brd.lib.SINGLE_BRD	15C4 16A3	INT_MIC3_CODECN_N	INT_MIC3_CODECN_N - @single_brd.lib.SINGLE_BRD	9B6	E_ACC1_CONN	E_ACC1_CONN - @single_brd.lib.SINGLE_BRD	16B4 22B4			
	E_ACC1_CONN	E_ACC1_CONN - @single_brd.lib.SINGLE_BRD	16B4 22B4	INT_MIC3_CODECN_P	INT_MIC3_CODECN_P - @single_brd.lib.SINGLE_BRD	9C6	E_ACC2	E_ACC2 - @single_brd.lib.SINGLE_BRD	15C4 16A3			
	E_ACC2	E_ACC2 - @single_brd.lib.SINGLE_BRD	15C4 16A3	INT_MIC3_CONN_N	INT_MIC3_CONN_N - @single_brd.lib.SINGLE_BRD	11B3						
				INT_MIC3_CONN_P	INT_MIC3_CONN_P - @single_brd.lib.SINGLE_BRD	11B3 22C6						

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	8	7	6	5	4	3	2	1				
	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	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	17C3 18A6	UART1_RTS_L	UART1_RTS_L - @single_brd_lib.SINGLE_BRD	26C8 30C4
	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	17C3 18A6	UART1_RXD	UART1_RXD - @single_brd_lib.SINGLE_BRD	3B5 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	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	17C1 18A6 18A8	UART2_RXD	UART2_RXD - @single_brd_lib.SINGLE_BRD	26C8 30C4
	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	17C1 18A8	UART2_TXD	UART2_TXD - @single_brd_lib.SINGLE_BRD	3B5 15B5 21C4
	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	17C1 18A8	UART3_CTS_L	UART3_CTS_L - @single_brd_lib.SINGLE_BRD	26C8 30C4
	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	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	17C1 18A8	UART3_RXD	UART3_RXD - @single_brd_lib.SINGLE_BRD	26B8 42B3
	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	17C1 18A8	UART4_CTS_L	UART4_CTS_L - @single_brd_lib.SINGLE_BRD	26C8 30C4
	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	17C1 18A8	UART4_RTS_L	UART4_RTS_L - @single_brd_lib.SINGLE_BRD	3B5 15B5
	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	17C1 18A8	UART4_TXD	UART4_TXD - @single_brd_lib.SINGLE_BRD	3B5 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	17C1 18A8	UART5_CTS_L	UART5_CTS_L - @single_brd_lib.SINGLE_BRD	3B5 21B4
	OVP_GATE	OVP_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	17C1 18A8	UART5_RTS_L	UART5_RTS_L - @single_brd_lib.SINGLE_BRD	26B8 42B3
	OVP_SW_EN_L	OVP_SW_EN_L - @single_brd_lib.SINGLE_BRD	15B4 16B8	PP3V0_USBMIX	PP3V0_USBMIX - @single_brd_lib.SINGLE_BRD	12B5 15C7	SAGE_PANEL_VSTM_OUT<10>	@single_brd_lib.SINGLE_BRD	17C1 18A8	UART5_RXD	UART5_RXD - @single_brd_lib.SINGLE_BRD	26B8 42C3
	PBL_RUN_BB_HSI31_RDY	PBL_RUN_BB_HSI31_RDY - @single_brd_lib.SINGLE_BRD	3A7 21D4	PP3V2_CODEC	PP3V2_CODEC - @single_brd_lib.SINGLE_BRD	10D3	SAGE_PANEL_VSTM_OUT<11>	@single_brd_lib.SINGLE_BRD	17B1 18A6	UART6_CTS_L	UART6_CTS_L - @single_brd_lib.SINGLE_BRD	3A5 21B4
	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	17B1 18A6	UART6_RTS_L	UART6_RTS_L - @single_brd_lib.SINGLE_BRD	26B8 42B3
	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	17C1 18A6	UART6_RXD	UART6_RXD - @single_brd_lib.SINGLE_BRD	3B5 21B4
	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	17C1 18A6	UART7_CTS_L	UART7_CTS_L - @single_brd_lib.SINGLE_BRD	26B8 42C3
	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	17C1 18A6	UART7_RTS_L	UART7_RTS_L - @single_brd_lib.SINGLE_BRD	3B5 21B4
	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	17C1 18A6	UART7_RXD	UART7_RXD - @single_brd_lib.SINGLE_BRD	26B8 42C3
	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	17C1 18A6	UART8_CTS_L	UART8_CTS_L - @single_brd_lib.SINGLE_BRD	3A5 21B4
	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	17C1 18A6	UART8_RTS_L	UART8_RTS_L - @single_brd_lib.SINGLE_BRD	26C8 42A4 42B4
	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	17C1 18A6	UART8_RXD	UART8_RXD - @single_brd_lib.SINGLE_BRD	26C8 42A4 42B4
	PMU_DWI_DI	PMU_DWI_DI - @single_brd_lib.SINGLE_BRD	13B6	PPN_ZQ	PPN_ZQ - @single_brd_lib.SINGLE_BRD	6B3	SAGE_VBIAS	@single_brd_lib.SINGLE_BRD	17B3	UART9_CTS_L	UART9_CTS_L - @single_brd_lib.SINGLE_BRD	3A5 21C4
	PMU_DWI_DO	PMU_DWI_DO - @single_brd_lib.SINGLE_BRD	13B6	PP_BATT_VCC	PP_BATT_VCC - @single_brd_lib.SINGLE_BRD	8C7 12D8 14D7 19D7 21C5	SAGE_VBIAS_DRAIN	@single_brd_lib.SINGLE_BRD	17C4 19B6	UART9_RTS_L	UART9_RTS_L - @single_brd_lib.SINGLE_BRD	26B8 42A4 42B4
	PMU_IRQ_L	PMU_IRQ_L - @single_brd_lib.SINGLE_BRD	3B7 13B6	PP_BATT_VCC_CONN	PP_BATT_VCC_CONN - @single_brd_lib.SINGLE_BRD	21C7 21D4 22D8	SAGE_VBST_OUTH	@single_brd_lib.SINGLE_BRD	17B3	UART9_RXD	UART9_RXD - @single_brd_lib.SINGLE_BRD	3A5 15B5
	PMU_RESET_IN	PMU_RESET_IN - @single_brd_lib.SINGLE_BRD	13B6	PP_L19_VBOOST	PP_L19_VBOOST - @single_brd_lib.SINGLE_BRD	42D7	SAGE_VBST_OUTL	@single_brd_lib.SINGLE_BRD	17B3	USB_TMD	USB_TMD - @single_brd_lib.SINGLE_BRD	3A5 15B5
	PN5V7_LCM_AVDDN_CONN	PN5V7_LCM_AVDDN_CONN - @single_brd_lib.SINGLE_BRD	18C4	PP_LDO14_2P65	PP_LDO14_2P65 - @single_brd_lib.SINGLE_BRD	14D5	SAGE_VCM_IN	@single_brd_lib.SINGLE_BRD	17B2 18A4	USB_BRICKID	USB_BRICKID - @single_brd_lib.SINGLE_BRD	13C2 15B5
	PN5V7_SAGE_AVDDN	PN5V7_SAGE_AVDDN - @single_brd_lib.SINGLE_BRD	17A5 17D4 18D1 19B8 19D1	PP_LDO14_2P65	PP_LDO14_2P65 - @single_brd_lib.SINGLE_BRD	16C2 21A4	SAGE_VCM_IN_CONN	@single_brd_lib.SINGLE_BRD	18A5 18A6	USB_BRICKID_PMU	USB_BRICKID_PMU - @single_brd_lib.SINGLE_BRD	13C4 13C6
	PP1V0	PP1V0 - @single_brd_lib.SINGLE_BRD	2C7 2D3 7B4 7D5 12A4	PP_VCC_MAIN	PP_VCC_MAIN - @single_brd_lib.SINGLE_BRD	26B8 27A2 32C6 37C3 40D6	SAGE_VCFH	@single_brd_lib.SINGLE_BRD	17D2 18A4	USB_CONN_SNUB	USB_CONN_SNUB - @single_brd_lib.SINGLE_BRD	16B5
	PP1V0_SRAM	PP1V0_SRAM - @single_brd_lib.SINGLE_BRD	5C7 12A4	PROX_FILT	PROX_FILT - @single_brd_lib.SINGLE_BRD	41D5	SAGE_VCFH_CONN	@single_brd_lib.SINGLE_BRD	18A5 18A8	USB_REXT	USB_REXT - @single_brd_lib.SINGLE_BRD	2B4
	PP1V1_CPU0	PP1V1_CPU0 - @single_brd_lib.SINGLE_BRD	5D8 12D5	PROX_RX_EN_V18	PROX_RX_EN_V18 - @single_brd_lib.SINGLE_BRD	10D1 12C8 12D8 13B4 13C2	SAGE_VCFH_REF	@single_brd_lib.SINGLE_BRD	17B5 18A4	USB_VBUS_DETECT	USB_VBUS_DETECT - @single_brd_lib.SINGLE_BRD	2B4 12C8
	PP1V1_CPU0_FET	PP1V1_CPU0_FET - @single_brd_lib.SINGLE_BRD	12D4	PROX_RX_EN_CONN	PROX_RX_EN_CONN - @single_brd_lib.SINGLE_BRD	13C3 19D4	SAGE_VCFH_REF_CONN	@single_brd_lib.SINGLE_BRD	18A5 18A6	VBST_OUTH_STACK	VBST_OUTH_STACK - @single_brd_lib.SINGLE_BRD	17B4
	PP1V1_CPU1	PP1V1_CPU1 - @single_brd_lib.SINGLE_BRD	5C8 12D3	PROX_TX_EN_V18_L	PROX_TX_EN_V18_L - @single_brd_lib.SINGLE_BRD	11C5	SAGE_VCFPL	@single_brd_lib.SINGLE_BRD	17A7 17D1 18A4 18C6	VBST_OUTL_STACK	VBST_OUTL_STACK - @single_brd_lib.SINGLE_BRD	17A4
	PP1V1_CPU1_FET	PP1V1_CPU1_FET - @single_brd_lib.SINGLE_BRD	12D2	PROX_TX_EN_BUFF	PROX_TX_EN_BUFF - @single_brd_lib.SINGLE_BRD	17B1 17B7	SAGE_VCFPL_CONN	@single_brd_lib.SINGLE_BRD	18A5 18A8	VCENTER	VCENTER - @single_brd_lib.SINGLE_BRD	12C7
	PP1V1_CSUB	PP1V1_CSUB - @single_brd_lib.SINGLE_BRD	5D8 12D1	RADIO_ON_L	RADIO_ON_L - @single_brd_lib.SINGLE_BRD	11B2 17B2	SAGE_VCFPL_REF	@single_brd_lib.SINGLE_BRD	17B4 17D2	VDD_REF	VDD_REF - @single_brd_lib.SINGLE_BRD	13C5
	PP1V1_SOC	PP1V1_SOC - @single_brd_lib.SINGLE_BRD	5D4 12C2	RADIO_ON_L	RADIO_ON_L - @single_brd_lib.SINGLE_BRD	3A7 21D4	SAGE_VCFPL_REF_CONN	@single_brd_lib.SINGLE_BRD	18A5 18A6	VDD_RTC	VDD_RTC - @single_brd_lib.SINGLE_BRD	13C5
	PP1V2	PP1V2 - @single_brd_lib.SINGLE_BRD	2C6 4A6 4C7 4D3 12B5	RCVR_CONN_N	RCVR_CONN_N - @single_brd_lib.SINGLE_BRD	26D3 26D8 28C8	SAGE_VCFPL_REF_CONN	@single_brd_lib.SINGLE_BRD	18A5 18A6	VHP_FLTC	VHP_FLTC - @single_brd_lib.SINGLE_BRD	10C4
	PP1V2_CAM0_CONN	PP1V2_CAM0_CONN - @single_brd_lib.SINGLE_BRD	20B5	RCVR_CONN_P	RCVR_CONN_P - @single_brd_lib.SINGLE_BRD	11C5	SAGE_VCFPL_REF_CONN	@single_brd_lib.SINGLE_BRD	18A5 18A6	VHP_FLYN	VHP_FLYN - @single_brd_lib.SINGLE_BRD	10C4
	PP1V2_SDRAM	PP1V2_SDRAM - @single_brd_lib.SINGLE_BRD	4A8 4D7 4D8 12B7 12C1	RCVR_TEST	RCVR_TEST - @single_brd_lib.SINGLE_BRD	11C5	SPI1_CS_L	@single_brd_lib.SINGLE_BRD	3C4 17B8	VHP_FLYP	VHP_FLYP - @single_brd_lib.SINGLE_BRD	10C4
	PP1V7_VA_DAC	PP1V7_VA_DAC - @single_brd_lib.SINGLE_BRD	12B4 14D4	RESET_V18_L	RESET_V18_L - @single_brd_lib.SINGLE_BRD	11C5	SPI1_MISO	@single_brd_lib.SINGLE_BRD	3C4 17B8	VIB	VIB - @single_brd_lib.SINGLE_BRD	8B5
	PP1V8	PP1V8 - @single_brd_lib.SINGLE_BRD	2B7 2C3 2D7 3C7 3C7 3D2	RCVR_N	RCVR_N - @single_brd_lib.SINGLE_BRD	9C4 11A8	SPI1_MISO_R	@single_brd_lib.SINGLE_BRD	17B7	VIB_LDO_EN	VIB_LDO_EN - @single_brd_lib.SINGLE_BRD	3B5 8C7
	PP1V8_ALWAYS	PP1V8_ALWAYS - @single_brd_lib.SINGLE_BRD	3A4 12A5	RCVR_P	RCVR_P - @single_brd_lib.SINGLE_BRD	9C4 11B8	SPI1_MOSI	@single_brd_lib.SINGLE_BRD	3C4 17B7	VIB_PWM	VIB_PWM - @single_brd_lib.SINGLE_BRD	3B5 8C7
	PP1V8_CAM0_CONN	PP1V8_CAM0_CONN - @single_brd_lib.SINGLE_BRD	20C5	RCVR_TEST	RCVR_TEST - @single_brd_lib.SINGLE_BRD	10C6 11A8	SPI1_SCLK	@single_brd_lib.SINGLE_BRD	3C4 17B8	VIB_PWM_G	VIB_PWM_G - @single_brd_lib.SINGLE_BRD	8C7
	PP1V8_CAM0_REG	PP1V8_CAM0_REG - @single_brd_lib.SINGLE_BRD	20B7	RF_RESET_L	RF_RESET_L - @single_brd_lib.SINGLE_BRD	2B7 12B2 13B6 15B4 18B1	SPKAMP_INT_L	@single_brd_lib.SINGLE_BRD	3B7 14D6	VIB_RETURN	VIB_RETURN - @single_brd_lib.SINGLE_BRD	8B5
	PP1V8_CAM1_CONN	PP1V8_CAM1_CONN - @single_brd_lib.SINGLE_BRD	11C4	REVERSE_GATE	REVERSE_GATE - @single_brd_lib.SINGLE_BRD	16B6	SPKAMP_RESET_L	@single_brd_lib.SINGLE_BRD	3A5 14D6	VOL_DWN_L	VOL_DWN_L - @single_brd_lib.SINGLE_BRD	3B7 8B7 13C6
	PP1V8_COMP	PP1V8_COMP - @single_brd_lib.SINGLE_BRD	14A7 14A8 14B5 14B7	RINGER_A	RINGER_A - @single_brd_lib.SINGLE_BRD	3B8 8B7 13B4 13C6	SPKR_CONN_N	@single_brd_lib.SINGLE_BRD	14C1 16A6	VOL_DWN_L_CONN	VOL_DWN_L_CONN - @single_brd_lib.SINGLE_BRD	8B5
	PP1V8_CUMULUS_VDDLO	PP1V8_CUMULUS_VDDLO - @single_brd_lib.SINGLE_BRD	17B7 17D6	RINGER_A_CONN	RINGER_A_CONN - @single_brd_lib.SINGLE_BRD	8B5	SPKR_CONN_P	@single_brd_lib.SINGLE_BRD	14C1 16A6	VOL_UP_L	VOL_UP_L - @single_brd_lib.SINGLE_BRD	3B7 8B7 13C6
	PP1V8_GRAPE	PP1V8_GRAPE - @single_brd_lib.SINGLE_BRD	12B5 17B1 17B5 17D5	SAGE_LX	SAGE_LX - @single_brd_lib.SINGLE_BRD	17B3	SPKR_FLR	@single_brd_lib.SINGLE_BRD	14C3	VOL_UP_L_CONN	VOL_UP_L_CONN - @single_brd_lib.SINGLE_BRD	8B5
	PP1V8_LCM_CONN	PP1V8_LCM_CONN - @single_brd_lib.SINGLE_BRD	18C4	SAGE_LY	SAGE_LY - @single_brd_lib.SINGLE_BRD	17B3	SPKR_N	@single_brd_lib.SINGLE_BRD	14C4	VPUMP	VPUMP - @single_brd_lib.SINGLE_BRD	12D5
	PP1V8_PLL	PP1V8_PLL - @single_brd_lib.SINGLE_BRD	2D6	SAGE_PANEL_IN<0>	SAGE_PANEL_IN<0> - @single_brd_lib.SINGLE_BRD	17C3 18A8	SPKR_P	@single_brd_lib.SINGLE_BRD	14C4	VREF	VREF - @single_brd_lib.SINGLE_BRD	13C5
	PP1V8_SDRAM	PP1V8_SDRAM - @single_brd_lib.SINGLE_BRD	3C8 4C7 9B3 12B2 12C1	SAGE_PANEL_IN<1>	SAGE_PANEL_IN<1> - @single_brd_lib.SINGLE_BRD	17D3 18A8	SPKR_SES_N	@single_brd_lib.SINGLE_BRD	14D3	VSW_CHG	VSW_CHG - @single_brd_lib.SINGLE_BRD	12C7
	PP_ML_BT_VDDIO_AP	PP_ML_BT_VDDIO_AP - @single_brd_lib.SINGLE_BRD	12C7 13A7 15C5 21C4	SAGE_PANEL_IN<2>	SAGE_PANEL_IN<2> - @single_brd_lib.SINGLE_BRD	17D3 18A8	SPKR_SES_P	@single_brd_lib.SINGLE_BRD	14C3	WDOG	WDOG - @single_brd_lib.SINGLE_BRD	2C4 13A7
	PP1V8_VA_CODEC	PP1V8_VA_CODEC - @single_brd_lib.SINGLE_BRD	26C8 42A7 42C4	SAGE_PANEL_IN<3>	SAGE_PANEL_IN<3> - @single_brd_lib.SINGLE_BRD	17D3 18A8	SPKR_VQ	@single_brd_lib.SINGLE_BRD	10B5	WiFi_REQ_ON	WiFi_REQ_ON - @single_brd_lib.SINGLE_BRD	13B7 21C4
	PP1V8_VCP	PP1V8_VCP - @single_brd_lib.SINGLE_BRD	10D5	SAGE_PANEL_IN<4>	SAGE_PANEL_IN<4> - @single_brd_lib.SINGLE_BRD	17D3 18A8	SPKR_VSENSE_N	@single_brd_lib.SINGLE_BRD	14D1 16B5	WiFi_REQ_ON_R	WiFi_REQ_ON_R - @single_brd_lib.SINGLE_BRD	13B6
	PP1V8_XTAL	PP1V8_XTAL - @single_brd_lib.SINGLE_BRD	4B3	SAGE_PANEL_IN<5>	SAGE_PANEL_IN<5> - @single_brd_lib.SINGLE_BRD	17D3 18A8	SPKR_VSENSE_P	@single_brd_lib.SINGLE_BRD	14D1 16B5	WLAN_HSI33_RESUME	WLAN_HSI33_RESUME - @single_brd_lib.SINGLE_BRD	26C8 42A4 42A8 42C7
	PP2V5_CAM0_AF	PP2V5_CAM0_AF - @single_brd_lib.SINGLE_BRD	12B3 20A7	SAGE_PANEL_IN<6>	SAGE_PANEL_IN<6> - @single_brd_lib.SINGLE_BRD	17D3 18A6	TCAL	@single_brd_lib.SINGLE_BRD	12B7	WLAN_HSI33_RESUME	WLAN_HSI33_RESUME - @single_brd_lib.SINGLE_BRD	26D8 42B5
	PP2V5_CAM0_AF_COMP	PP2V5_CAM0_AF_COMP - @single_brd_lib.SINGLE_BRD	12B3 20B7	SAGE_PANEL_IN<7>	SAGE_PANEL_IN<7> - @single_brd_lib.SINGLE_BRD	17C3 18A6	TRISTAR_BYPASS	@single_brd_lib.SINGLE_BRD	15B4	WLED_LX	WLED_LX - @single_brd_lib.SINGLE_BRD	13B3
	PP2V5_CAM0_AF_CONN	PP2V5_CAM0_AF_CONN - @single_brd_lib.SINGLE_BRD	20B5	SAGE_PANEL_IN<8>	SAGE_PANEL_IN<8> - @single_brd_lib.SINGLE_BRD	17C3 18A6	TRISTAR_INT	@single_brd_lib.SINGLE_BRD	3B5 13B6 15B4	XTAL_24M_O_R	XTAL_24M_O_R - @single_brd_lib.SINGLE_BRD	2C3
				SAGE_PANEL_IN<9>	SAGE_PANEL_IN<9> - @single_brd_lib.SINGLE_BRD	17C3 18A6	TST_CLKOUT	@single_brd_lib.SINGLE_BRD	2B6 13B6	XTAL_GND	XTAL_GND - @single_brd_lib.SINGLE_BRD	2B2

	8	7	6	5	4	3	2	1
BOARD_ID	@single_brd_lib.RADIO_MLB BOARD_ID -	28D4	PA_ON_B8	@single_brd_lib.RADIO_MLB PA_ON_B8 -	30B4 34C2	PP_SMPS2_RF1_LV3	PP_SMPS2_RF1_LV3 -	27C1 29A5 33D6 33D8
BT_PCM_CLK	@single_brd_lib.RADIO_MLB 45_I2S3_BCLK -	3C4 21B4	PA_ON_B13	@single_brd_lib.RADIO_MLB PA_ON_B13 -	30B4 35B7	PP_SMPS3_MSME_LV8	@single_brd_lib.RADIO_MLB PP_SMPS3_MSME_LV8 -	26D1 26D6 27A7 27C1 29A6 29A6 29A6 29A8 29C6 29D7 29D8 30B8 30C4 33A4 27A7 27B1 33C5
BT_PCM_IN	@single_brd_lib.RADIO_MLB I2S3_DOUT -	26B8 42B3	PA_ON_B1	@single_brd_lib.RADIO_MLB PA_ON_B1 -	30A4 34C2 35B7 36B5 38D3	PP_SMPS4_RF2_2V0	@single_brd_lib.RADIO_MLB PP_SMPS4_RF2_2V0 -	27A7 27B1
BT_PCM_OUT	@single_brd_lib.RADIO_MLB I2S3_DIN -	3C4 21B4	PA_R1	@single_brd_lib.RADIO_MLB PA_R1 -	39D3	PP_SMPS5_DSP_LV05	@single_brd_lib.RADIO_MLB PP_SMPS5_DSP_LV05 -	27A7 27B1
BT_PCM_SYNC	@single_brd_lib.RADIO_MLB I2S3_LRCLK -	3C4 21B4	PA_R1_VBP	@single_brd_lib.RADIO_MLB PA_R1_VBP -	30C2 34C2 35C7 38D3	PP_SYNC	@single_brd_lib.RADIO_MLB PP_SYNC -	3A5 21C4
BT_REG_ON	@single_brd_lib.RADIO_MLB BT_REG_ON -	26B8 42B3	PBL_RUN_BB_HSI3C1_RDY	@single_brd_lib.RADIO_MLB PBL_RUN_BB_HSI3C1_RDY -	3A7 21D4	PP_VREG	@single_brd_lib.RADIO_MLB PP_VREG -	26C8 30B2
BT_UART_CTS_L	@single_brd_lib.RADIO_MLB UART3_RTS_L -	3B5 21B4	PMIC_RESOUT_L	@single_brd_lib.RADIO_MLB PMIC_RESOUT_L -	26C1 26D8 30B2	PP_VSW_S1	@single_brd_lib.RADIO_MLB PP_VSW_S1 -	27D3 27D4
BT_UART_RTS_L	@single_brd_lib.RADIO_MLB UART3_CTS_L -	3B5 21B4	PMIC_SSBI	@single_brd_lib.RADIO_MLB PMIC_SSBI -	26C1 28C6 29B5	PP_VSW_S2	@single_brd_lib.RADIO_MLB PP_VSW_S2 -	27C4
BT_UART_RXD	@single_brd_lib.RADIO_MLB UART3_TXD -	3A5 21B4	PMIC_SSB1	@single_brd_lib.RADIO_MLB PMIC_SSB1 -	26C6 28C8 29A5	PP_VSW_S3	@single_brd_lib.RADIO_MLB PP_VSW_S3 -	27C4
BT_UART_TXD	@single_brd_lib.RADIO_MLB UART3_RXD -	3B5 21B4	PM_MDM_IRQ_L	@single_brd_lib.RADIO_MLB PM_MDM_IRQ_L -	28C6 30B2	PP_VSW_S4	@single_brd_lib.RADIO_MLB PP_VSW_S4 -	27B4
CLK32K_AP	@single_brd_lib.RADIO_MLB CLK32K_WF1 -	13B6 13C6 21B4	PM_USR_IRQ_L	@single_brd_lib.RADIO_MLB PM_USR_IRQ_L -	28C6 30A2	PP_VSW_S5	@single_brd_lib.RADIO_MLB PP_VSW_S5 -	27B3
DO_EN	@single_brd_lib.RADIO_MLB DO_EN -	28B2 29A5	PP_BATT_VCC_CONN	@single_brd_lib.RADIO_MLB PP_BATT_VCC_CONN -	8C7 12D8 14D7 19D7 21C5 21C7 21D4 22D8	PP_WLAN_VDDIO_V18	@single_brd_lib.RADIO_MLB PP_WLAN_VDDIO_V18 -	42C5
DCDC_ADJ	@single_brd_lib.RADIO_MLB DCDC_ADJ -	30A2 36D8	PP_BATT_VCC_WLAN	@single_brd_lib.RADIO_MLB PP_BATT_VCC_WLAN -	35C5 36C5 36D8 38C5 39C5 42D7 42D6	PP_WL_BT_VDDIO_AP	@single_brd_lib.RADIO_MLB PP_WL_BT_VDDIO_AP -	3C8 4C7 9B3 12B2 12C1 12C7 13A7 15C5 21C4 26C8 42A7 42C4
DCDC_EN	@single_brd_lib.RADIO_MLB DCDC_EN -	30B2 36D8	PP_DIG	@single_brd_lib.RADIO_MLB PP_DIG -	33A3 33C3	PP_XO_LP8_FILT	@single_brd_lib.RADIO_MLB PP_XO_LP8_FILT -	33A4 33C3
DCDC_MODE	@single_brd_lib.RADIO_MLB DCDC_MODE -	30B2 36D8	PP_LDO1	@single_brd_lib.RADIO_MLB PP_LDO1 -	27B5	PRX_B5_B8_1	@single_brd_lib.RADIO_MLB PRX_B5_B8_1 -	30B2 32B4
DCDC_OUT	@single_brd_lib.RADIO_MLB DCDC_OUT -	36D6	PP_LDO2_XO_HS_V18	@single_brd_lib.RADIO_MLB PP_LDO2_XO_HS_V18 -	27B2 29B5 33A5	PRX_BB_I_N	@single_brd_lib.RADIO_MLB PRX_BB_I_N -	30C8 31C7
DCDC_PGND	@single_brd_lib.RADIO_MLB DCDC_PGND -	36C5 36C7 36D6 36D8	PP_LDO3_AMUX_V18	@single_brd_lib.RADIO_MLB PP_LDO3_AMUX_V18 -	27B2 28B5 28D4 29B6	PRX_BB_I_P	@single_brd_lib.RADIO_MLB PRX_BB_I_P -	30C8 31C7
DEBUG_RST_L	@single_brd_lib.RADIO_MLB DEBUG_RST_L -	26D3 29B5	PP_LDO4_VDDA_3V3	@single_brd_lib.RADIO_MLB PP_LDO4_VDDA_3V3 -	27B2 29B6	PRX_BB_Q_N	@single_brd_lib.RADIO_MLB PRX_BB_Q_N -	30C8 31C7
DEV_HSI3C3_RDY	@single_brd_lib.RADIO_MLB DEV_HSI3C3_RDY -	3B5 21D1	PP_LDO5_GPS_LNA_2V5	@single_brd_lib.RADIO_MLB PP_LDO5_GPS_LNA_2V5 -	27B2 41C6	PRX_BB_Q_P	@single_brd_lib.RADIO_MLB PRX_BB_Q_P -	30C8 31C7
DRX_BB_I_N	@single_brd_lib.RADIO_MLB DRX_BB_I_N -	30C8 31B7	PP_LDO5_GPS_LNA_2V5_CONN	@single_brd_lib.RADIO_MLB PP_LDO5_GPS_LNA_2V5_CONN -	41C8	PS_HOLD	@single_brd_lib.RADIO_MLB PS_HOLD -	28C8 30B2
DRX_BB_I_P	@single_brd_lib.RADIO_MLB DRX_BB_I_P -	30C8 31B7	PP_LDO6_RUIM_V18	@single_brd_lib.RADIO_MLB PP_LDO6_RUIM_V18 -	26A3 26A6 26D1 26D6 27A2 29A6	PS_HOLD_FMIC	@single_brd_lib.RADIO_MLB PS_HOLD_FMIC -	26C3 28C7
DRX_BB_Q_N	@single_brd_lib.RADIO_MLB DRX_BB_Q_N -	30C8 31B7	PP_LDO7_DAC_V18	@single_brd_lib.RADIO_MLB PP_LDO7_DAC_V18 -	27A2 29A6 30C6	RADIO_ON_L	@single_brd_lib.RADIO_MLB RADIO_ON_L -	3A7 21D4
DRX_BB_Q_P	@single_brd_lib.RADIO_MLB DRX_BB_Q_P -	30C8 31B7	PP_LDO8_VDDPX_V12	@single_brd_lib.RADIO_MLB PP_LDO8_VDDPX_V12 -	27A2 29A6	REF_BYP_8014_F2	@single_brd_lib.RADIO_MLB REF_BYP_8014_F2 -	27C6
DRX_MODE_SEL_A	@single_brd_lib.RADIO_MLB DRX_MODE_SEL_A -	30C2 40D7	PP_LDO9_PLL_V105	@single_brd_lib.RADIO_MLB PP_LDO9_PLL_V105 -	27A2 29B6 29B8 29D8	RESET_DET_L	@single_brd_lib.RADIO_MLB RESET_DET_L -	3A5 21D4
DRX_MODE_SEL_B	@single_brd_lib.RADIO_MLB DRX_MODE_SEL_B -	30C2 40D7	PP_LDO10_ADSF_V105	@single_brd_lib.RADIO_MLB PP_LDO10_ADSF_V105 -	27A2 29C6 29D7	RESET_FMU_L	@single_brd_lib.RADIO_MLB RESET_FMU_L -	26C1 26D8 30B4
DRX_MODE_SEL_C	@single_brd_lib.RADIO_MLB DRX_MODE_SEL_C -	30C2 40D7	PP_LDO11_MDSP_FW_V105	@single_brd_lib.RADIO_MLB PP_LDO11_MDSP_FW_V105 -	27A2 29C6 29D6	RF_CLK	@single_brd_lib.RADIO_MLB RF_CLK -	28B1 31D8
EB11_CAL	@single_brd_lib.RADIO_MLB EB11_CAL -	29D1	PP_LDO12_MDSP_SW_V105	@single_brd_lib.RADIO_MLB PP_LDO12_MDSP_SW_V105 -	27A2 29B6 29D7	RF_RBIA5	@single_brd_lib.RADIO_MLB RF_RBIA5 -	31D7
GPIO_6	@single_brd_lib.RADIO_MLB GPIO_6 -	42C6	PP_LDO13_VDDPX_2V95	@single_brd_lib.RADIO_MLB PP_LDO13_VDDPX_2V95 -	27A2 29A8	RF_RESET_L	@single_brd_lib.RADIO_MLB RF_RESET_L -	21D7 12B2 13B6 15B4 18B1
GPIO_51	@single_brd_lib.RADIO_MLB GPIO_51 -	26C3 30C2	PP_LDO14_2P65	@single_brd_lib.RADIO_MLB PP_LDO14_2P65 -	16C2 21A4	RREFEXT	@single_brd_lib.RADIO_MLB RREFEXT -	29A5
GPIO_DEBUG_LED	@single_brd_lib.RADIO_MLB GPIO_DEBUG_LED -	26C3 30B4	PP_LDO14_2P65	@single_brd_lib.RADIO_MLB PP_LDO14_2P65 -	26B8 27A2 32C6 37C3 40D6 41D5	RSTVD	@single_brd_lib.RADIO_MLB RSTVD -	28B3
GPRSYNC	@single_brd_lib.RADIO_MLB GPRSYNC -	31C3	PP_LVS1	@single_brd_lib.RADIO_MLB PP_LVS1 -	26C6 27D1 29B6	RTR_SSB1_PRX_DRX	@single_brd_lib.RADIO_MLB RTR_SSB1_PRX_DRX -	30B2 31C1
GPS_BB_I_N	@single_brd_lib.RADIO_MLB GPS_BB_I_N -	30C8 31C4	PP_PA	@single_brd_lib.RADIO_MLB PP_PA -	34C5 35D5 36C5 36D5 38D5 39D5	RTR_SSB1_TX_GFS	@single_brd_lib.RADIO_MLB RTR_SSB1_TX_GFS -	30B2 31C1
GPS_BB_I_P	@single_brd_lib.RADIO_MLB GPS_BB_I_P -	30C8 31C4	PP_RF1_1_PRX_VCO	@single_brd_lib.RADIO_MLB PP_RF1_1_PRX_VCO -	33C3 33D3	S1_GND	@single_brd_lib.RADIO_MLB S1_GND -	27C3 27C7 28B6
GPS_BB_Q_N	@single_brd_lib.RADIO_MLB GPS_BB_Q_N -	30C8 31C4	PP_RF1_2_4	@single_brd_lib.RADIO_MLB PP_RF1_2_4 -	33C7	S2_GND	@single_brd_lib.RADIO_MLB S2_GND -	27C7 28B6
GPS_BB_Q_P	@single_brd_lib.RADIO_MLB GPS_BB_Q_P -	30C8 31C4	PP_RF1_2_TX_VCO	@single_brd_lib.RADIO_MLB PP_RF1_2_TX_VCO -	33C6 33D3	S3_GND	@single_brd_lib.RADIO_MLB S3_GND -	27C3 27C7 28B6
GSM_PA_HB_EN	@single_brd_lib.RADIO_MLB GSM_PA_HB_EN -	30B4 36B5	PP_RF1_3_20_23	@single_brd_lib.RADIO_MLB PP_RF1_3_20_23 -	33B7	S4_GND	@single_brd_lib.RADIO_MLB S4_GND -	27C7 28B6
GSM_PA_LB_EN	@single_brd_lib.RADIO_MLB GSM_PA_LB_EN -	30B4 36B5	PP_RF1_3_20_23_GFS_PLL	@single_brd_lib.RADIO_MLB PP_RF1_3_20_23_GFS_PLL -	33A6 33C3	S5_GND	@single_brd_lib.RADIO_MLB S5_GND -	27B3 27C8 28B6
HOST_WAKE_BB	@single_brd_lib.RADIO_MLB HOST_WAKE_BB -	13B6 21D4	PP_RF1_3_20_23_TX_PL	@single_brd_lib.RADIO_MLB PP_RF1_3_20_23_TX_PL -	33A6 33C3	SIMCRD_CLK_CONN	@single_brd_lib.RADIO_MLB SIMCRD_CLK_CONN -	26A3 26A6 26C1 30C4
HOST_WAKE_BT	@single_brd_lib.RADIO_MLB HOST_WAKE_BT -	26B8 42C3	PP_RF1_4_TX_LO	@single_brd_lib.RADIO_MLB PP_RF1_4_TX_LO -	33C3 33C6	SIMCRD_IO_CONN	@single_brd_lib.RADIO_MLB SIMCRD_IO_CONN -	26A4 26A4 26C1 30C4
HOST_WAKE_WLAN	@single_brd_lib.RADIO_MLB HOST_WAKE_WLAN -	13B6 21B4	PP_RF1_5_8_9	@single_brd_lib.RADIO_MLB PP_RF1_5_8_9 -	33B7	SIMCRD_RST_CONN	@single_brd_lib.RADIO_MLB SIMCRD_RST_CONN -	26A4 26A6 26C1 30C4
HSIC_DEVICE_RDY	@single_brd_lib.RADIO_MLB HSIC_DEVICE_RDY -	42A7 42B4	PP_RF1_5_PRE_DRIVER	@single_brd_lib.RADIO_MLB PP_RF1_5_PRE_DRIVER -	33B6 33C3	SIM_TRAY_DETECT	@single_brd_lib.RADIO_MLB SIM_TRAY_DETECT -	26A3 26A4 26C1 30C4
IREF	@single_brd_lib.RADIO_MLB IREF -	30C6 31D8	PP_RF1_8_TX_MIXER_LB	@single_brd_lib.RADIO_MLB PP_RF1_8_TX_MIXER_LB -	33B6 33C3	SLEEP_CLK_32K	@single_brd_lib.RADIO_MLB SLEEP_CLK_32K -	28B2 29B5
JTAG_SEL	@single_brd_lib.RADIO_MLB JTAG_SEL -	42C7	PP_RF1_9_HB_DA	@single_brd_lib.RADIO_MLB PP_RF1_9_HB_DA -	33B6 33C3	SPI2_CLK	@single_brd_lib.RADIO_MLB SPI2_CLK -	30C4 41D5
LAT_SW1_CTL	@single_brd_lib.RADIO_MLB LAT_SW1_CTL -	16C5 21A4	PP_RF1_11_12_RX_TX_D	@single_brd_lib.RADIO_MLB PP_RF1_11_12_RX_TX_D -	33D5	SPI2_CS_L	@single_brd_lib.RADIO_MLB SPI2_CS_L -	30C4 41D5
MEM_CLK	@single_brd_lib.RADIO_MLB MEM_CLK -	28B2 29A5	PP_RF1_11_12_RX_TX_D_IG	@single_brd_lib.RADIO_MLB PP_RF1_11_12_RX_TX_D_IG -	33C3 33D3	SPI_CLK	@single_brd_lib.RADIO_MLB SPI_CLK -	30A8 30C4
OPT_2	@single_brd_lib.RADIO_MLB OPT_2 -	28C7	PP_RF1_11_12_RX_TX_D_IG_E7	@single_brd_lib.RADIO_MLB PP_RF1_11_12_RX_TX_D_IG_E7 -	33C3 33D3	SPI_CS_L	@single_brd_lib.RADIO_MLB SPI_CS_L -	30A6 30C4
PA_ID	@single_brd_lib.RADIO_MLB PA_ID -	28D3	PP_RF1_11_PDET_TX	@single_brd_lib.RADIO_MLB PP_RF1_11_PDET_TX -	33C3 33D3	SPI_DATA_MISO	@single_brd_lib.RADIO_MLB SPI_DATA_MISO -	30A6 30C4
PA_ON_B1B4	@single_brd_lib.RADIO_MLB PA_ON_B1B4 -	30B4 38D3	PP_RF1_13_GFS_LNA	@single_brd_lib.RADIO_MLB PP_RF1_13_GFS_LNA -	33C3 33D6	SPI_DATA_MOSI	@single_brd_lib.RADIO_MLB SPI_DATA_MOSI -	30A8 30C4
PA_ON_B2	@single_brd_lib.RADIO_MLB PA_ON_B2 -	30B4 39C3	PP_RF1_14_15	@single_brd_lib.RADIO_MLB PP_RF1_14_15 -	33D7	SPI_GTR_THRESH	@single_brd_lib.RADIO_MLB SPI_GTR_THRESH -	30C6 31C4
PA_ON_B5	@single_brd_lib.RADIO_MLB PA_ON_B5 -	30B4 34C2	PP_RF1_15_DRX_LNA	@single_brd_lib.RADIO_MLB PP_RF1_15_DRX_LNA -	33C3 33D6	SPI_CS_L	@single_brd_lib.RADIO_MLB SPI_CS_L -	30C6 31C4
			PP_RF1_17_PRX_LO	@single_brd_lib.RADIO_MLB PP_RF1_17_PRX_LO -	33C3 33C3	SPI_DATA_MISO	@single_brd_lib.RADIO_MLB SPI_DATA_MISO -	30C6 31C4
			PP_RF1_18_DRX_LO	@single_brd_lib.RADIO_MLB PP_RF1_18_DRX_LO -	33C3 33C3	SPI_DATA_MOSI	@single_brd_lib.RADIO_MLB SPI_DATA_MOSI -	30C6 31C4
			PP_RF1_21_GFS_VCO	@single_brd_lib.RADIO_MLB PP_RF1_21_GFS_VCO -	33C3 33D3	LED_DRIVE_GSM8	@single_brd_lib.RADIO_MLB LED_DRIVE_GSM8 -	19C6 21C4
			PP_RF1_22_GFS_DIG	@single_brd_lib.RADIO_MLB PP_RF1_22_GFS_DIG -	33C3 33D3	TX_GTR_THRESH	@single_brd_lib.SINGLE_BRD TX_GTR_THRESH -	26D8 30C2
			PP_RF2_1_5_6_MASTER_BIAS_RX_BB	@single_brd_lib.RADIO_MLB PP_RF2_1_5_6_MASTER_BIAS_RX_BB -	33B3 33B4	VDDPX_BIAS	@single_brd_lib.RADIO_MLB VDDPX_BIAS -	28D3 29B6
			PP_RF2_2_PDET	@single_brd_lib.RADIO_MLB PP_RF2_2_PDET -	33B3 33C4	VREF_DAC_BIAS	@single_brd_lib.RADIO_MLB VREF_DAC_BIAS -	28C4 30C6
			PP_RF2_3_RX_VCO	@single_brd_lib.RADIO_MLB PP_RF2_3_RX_VCO -	33B3 33B4	VSM_VFP	@single_brd_lib.RADIO_MLB VSM_VFP -	26A5
			PP_RF2_4_TX_VCO	@single_brd_lib.RADIO_MLB PP_RF2_4_TX_VCO -	33A4 33B3	VTUNE_SHDR	@single_brd_lib.RADIO_MLB VTUNE_SHDR -	31C3
			PP_RF2_7_TX_BB	@single_brd_lib.RADIO_MLB PP_RF2_7_TX_BB -	33B3 33B4	WAN_DIO	@single_brd_lib.RADIO_MLB WAN_DIO -	30B4 31C4
			PP_SMPS1_MSMC_V105	@single_brd_lib.RADIO_MLB PP_SMPS1_MSMC_V105 -	26D6 27D1 29C8 29C8 29D8	WAN_DIO_RX_ON	@single_brd_lib.RADIO_MLB WAN_DIO_RX_ON -	30B4 31C4
						WAN_GPRSYNC	@single_brd_lib.RADIO_MLB WAN_GPRSYNC -	30B2 31C4
						WAN_GP_DATA0	@single_brd_lib.RADIO_MLB WAN_GP_DATA0 -	30B2 31C4
						WAN_GP_DATA1	@single_brd_lib.RADIO_MLB WAN_GP_DATA1 -	30B2 31C4
						WAN_GP_DATA2	@single_brd_lib.RADIO_MLB WAN_GP_DATA2 -	30B2 31C4
						WLAN_BUCK_OUT	@single_brd_lib.RADIO_MLB WLAN_BUCK_OUT -	42C7
						WLAN_CLK32K	@single_brd_lib.RADIO_MLB WLAN_CLK32K -	42C7
						WLAN_HSI3C3_RESUME	@single_brd_lib.RADIO_MLB WLAN_HSI3C3_RESUME -	3B7 21A4
						WLAN_REG_ON	@single_brd_lib.RADIO_MLB WLAN_REG_ON -	26D8 42B5
						WLAN_REG_ON_RC	@single_brd_lib.RADIO_MLB WLAN_REG_ON_RC -	13B7 21C4
						WLAN_SR_VLX1	@single_brd_lib.RADIO_MLB WLAN_SR_VLX1 -	26C8 42A4 42A8 42C7
						WLAN_TX_BLANK	@single_brd_lib.RADIO_MLB WLAN_TX_BLANK -	42A7
						WLAN_UART_RXD	@single_brd_lib.RADIO_MLB WLAN_UART_RXD -	42B7
						WLAN_UART_TXD	@single_brd_lib.RADIO_MLB WLAN_UART_TXD -	30B2 42A4
						XO_GND	@single_brd_lib.RADIO_MLB XO_GND -	3A5 21C4
						XO_REF	@single_brd_lib.RADIO_MLB XO_REF -	26B8 42A4 42B4
						XO_THERM_Y1	@single_brd_lib.RADIO_MLB XO_THERM_Y1 -	3A5 21B4
						XTAL19M_IN	@single_brd_lib.RADIO_MLB XTAL19M_IN -	26C8 42A4 42B4
						XTAL19M_OUT	@single_brd_lib.RADIO_MLB XTAL19M_OUT -	28B4

	8	7	6	5	4	3	2	1
	C525_RF CAP_0201-MUR radio_mib[2986]single_brd[21]	C1417_RF CAP_01005 radio_mib[385C]single_brd[21]	FL18 LIND_01005 single_brd[16C7]	L15 IND_P_PSB251T-SM single_brd[12C3]				
	C526_RF CAP_0201-MUR radio_mib[29A6]single_brd[21]	C1420_RF CAP_01005 radio_mib[38B2]single_brd[21]	FL19 FILTER_2P_01005 single_brd[16C7]	L16 IND_P_VLS201610MNT-S single_brd[12D2]				
	C527_RF CAP_0201-MUR radio_mib[29D6]single_brd[21]	C1421_RF CAP_01005 radio_mib[38B2]single_brd[21]	FL20 FILTER_2P_01005 single_brd[11B7]	M1				
	C528_RF CAP_0201-MUR radio_mib[29D5]single_brd[21]	C1423_RF IND_01005 radio_mib[38C1]single_brd[21]	FL21 FILTER_2P_01005 single_brd[20A7]	L17 IND_P_VLS2010MT-SM single_brd[12B2]				
	C601_RF CAP_01005 radio_mib[30B7]single_brd[21]	C1424_RF IND_01005 radio_mib[38C1]single_brd[21]	FL22 FILTER_2P_01005 single_brd[20C7]	L18 IND_P_VLS2010MT-SM single_brd[12B2]				
	C606_RF CAP_01005 radio_mib[30A3]single_brd[21]	C1425_RF IND_0201 radio_mib[38B5]single_brd[21]	FL23 FILTER_2P_01005 single_brd[11C2]	L19 IND_P_VLS201610MNT-S single_brd[13C3]				
	C607_RF CAP_01005 radio_mib[30A3]single_brd[21]	C1501_RF CAP_01005 radio_mib[39C8]single_brd[21]	FL24 FILTER_2P_0201-1 single_brd[18D2]	M1				
	C608_RF CAP_01005 radio_mib[30C9]single_brd[21]	C1502_RF CAP_01005-1 radio_mib[39F8]single_brd[21]	FL25 FILTER_2P_0201-1 single_brd[18D2]	L20 FILTER_4P_TCM0605-1 single_brd[16B2]				
	C609_RF CAP_01005 radio_mib[30C5]single_brd[21]	C1503_RF CAP_01005 radio_mib[39C5]single_brd[21]	FL26 FILTER_2P_01005 single_brd[18D2]	L21 IND_PSB1201T-SM single_brd[17B3]				
	C701_RF CAP_01005 radio_mib[31D8]single_brd[21]	C1504_RF CAP_01005-1 radio_mib[39C2]single_brd[21]	FL27 FILTER_2P_0201-1 single_brd[18C2]	L22 FILTER_4P_TCM0605-1 single_brd[16B2]				
	C702_RF CAP_01005 radio_mib[31C4]single_brd[21]	C1505_RF CAP_01005 radio_mib[39C4]single_brd[21]	FL28 FILTER_2P_01005 single_brd[20D7]	L28 IND_0201 single_brd[20C7]				
	C703_RF CAP_01005 radio_mib[31D7]single_brd[21]	C1507_RF CAP_01005 radio_mib[39C3]single_brd[21]	FL29 FILTER_2P_01005 single_brd[20C7]	L29 IND_0201 single_brd[20A7]				
	C704_RF CAP_01005 radio_mib[31D7]single_brd[21]	C1508_RF CAP_01005-1 radio_mib[39B3]single_brd[21]	FL30 FILTER_2P_01005 single_brd[20C7]	L30 IND_0201 single_brd[20B7]				
	C705_RF CAP_01005 radio_mib[31D8]single_brd[21]	C1509_RF CAP_01005-1 radio_mib[39B2]single_brd[21]	FL31 FILTER_2P_01005 single_brd[20C7]	L33 FILTER_4P_TCM0605-1 single_brd[20C3]				
	C801_RF CAP_01005 radio_mib[32C6]single_brd[21]	C1510_RF CAP_01005 radio_mib[39B1]single_brd[21]	FL32 FILTER_2P_01005 single_brd[10D6]	L34 FILTER_4P_TCM0605-1 single_brd[20C2]				
	C802_RF CAP_01005 radio_mib[32C6]single_brd[21]	C1511_RF CAP_01005 radio_mib[39C5]single_brd[21]	FL33 FILTER_2P_0201-1 single_brd[19D2]	L35 FILTER_4P_TCM0605-1 single_brd[11D2]				
	C803_RF CAP_01005 radio_mib[32B5]single_brd[21]	C1512_RF CAP_0201-MUR radio_mib[39C5]single_brd[21]	FL34 FILTER_2P_01005 single_brd[18B2]	L36 FILTER_4P_TCM0605-1 single_brd[20B2]				
	C804_RF CAP_01005 radio_mib[32C4]single_brd[21]	C1513_RF CAP_01005 radio_mib[39C5]single_brd[21]	FL35 FILTER_2P_01005 single_brd[18C2]	L37 FILTER_4P_TCM0605-1 single_brd[20B2]				
	C805_RF CAP_01005 radio_mib[32B4]single_brd[21]	C1601_RF CAP_01005 radio_mib[40D5]single_brd[21]	FL36 FILTER_2P_01005 single_brd[18B2]	L38 FILTER_4P_TCM0605-1 single_brd[20B3]				
	C806_RF CAP_01005 radio_mib[32C3]single_brd[21]	C1602_RF CAP_01005 radio_mib[40D5]single_brd[21]	FL37 FILTER_2P_0201-1 single_brd[18C2]	L39 FILTER_4P_TCM0605-1 single_brd[11C2]				
	C903_RF CAP_0201-MUR radio_mib[33D7]single_brd[21]	C1603_RF CAP_01005 radio_mib[40D6]single_brd[21]	FL38 FILTER_2P_01005 single_brd[14A5]	L40 IND_P_VLS201610MNT-6R single_brd[19C3]				
	C910_RF CAP_0201-MUR radio_mib[33D4]single_brd[21]	C1604_RF CAP_01005 radio_mib[40D5]single_brd[21]	FL39 FILTER_2P_01005 single_brd[14B5]	M 8M-SM				
	C913_RF CAP_01005 radio_mib[33D4]single_brd[21]	C1605_RF CAP_01005 radio_mib[40D5]single_brd[21]	FL40 FILTER_2P_01005 single_brd[14A5]	L41 FILTER_4P_TCM0605-1 single_brd[18C6]				
	C915_RF CAP_01005 radio_mib[33D4]single_brd[21]	C1606_RF CAP_0201 radio_mib[40C6]single_brd[21]	FL41 FILTER_2P_01005 single_brd[14A5]	L42 FILTER_4P_TCM0605-1 single_brd[18C6]				
	C916_RF CAP_0402-1 radio_mib[33C5]single_brd[21]	C1607_RF CAP_01005 radio_mib[40B6]single_brd[21]	FL42 FILTER_2P_01005 single_brd[14A5]	L43 FILTER_4P_TCM0605-1 single_brd[18B6]				
	C917_RF CAP_01005 radio_mib[33C4]single_brd[21]	C1608_RF CAP_01005 radio_mib[40B6]single_brd[21]	FL43 FILTER_2P_01005-1 single_brd[20B7]	L44 FILTER_4P_TCM0605-1 single_brd[18C6]				
	C918_RF CAP_0201-MUR radio_mib[3301]single_brd[21]	C1609_RF CAP_01005 radio_mib[40B4]single_brd[21]	FL44 FILTER_2P_01005 single_brd[11C2]	L45 FILTER_4P_TCM0605-1 single_brd[18B6]				
	C919_RF CAP_01005 radio_mib[33C4]single_brd[21]	C1610_RF CAP_01005 radio_mib[40B3]single_brd[21]	FL45 FILTER_2P_01005 single_brd[11C7]	L50 IND_P_VLS252010MNT-S single_brd[12C4]				
	C920_RF CAP_01005 radio_mib[33C3]single_brd[21]	C1611_RF CAP_01005 radio_mib[40B4]single_brd[21]	FL46 FILTER_2P_01005 single_brd[8B7]	M				
	C921_RF CAP_0201 radio_mib[33C6]single_brd[21]	C1612_RF CAP_01005 radio_mib[40B3]single_brd[21]	FL47 FILTER_2P_01005 single_brd[8B3]	L54 IND_P_VLS252010MNT-S single_brd[12D2]				
	C922_RF CAP_0201 radio_mib[33C6]single_brd[21]	C1613_RF CAP_01005 radio_mib[40B6]single_brd[21]	FL48 FILTER_2P_01005 single_brd[11A2]	M				
	C923_RF CAP_01005 radio_mib[33B4]single_brd[21]	C1614_RF CAP_01005 radio_mib[40A6]single_brd[21]	FL49 FILTER_2P_01005 single_brd[16C3]	L207_RF IND_0806 radio_mib[27D3]single_brd[21]				
	C924_RF CAP_0201-MUR radio_mib[33B6]single_brd[21]	C1615_RF CAP_01005 radio_mib[40B4]single_brd[21]	FL50 FILTER_2P_01005 single_brd[11B7]	L208_RF IND_0806 radio_mib[27C3]single_brd[21]				
	C925_RF CAP_0201 radio_mib[33B6]single_brd[21]	C1616_RF CAP_01005 radio_mib[40A4]single_brd[21]	FL51 FILTER_2P_01005-1 single_brd[11B7]	L209_RF IND_0806 radio_mib[27C3]single_brd[21]				
	C927_RF CAP_0201-MUR radio_mib[33B6]single_brd[21]	C1701_RF CAP_01005 radio_mib[41D5]single_brd[21]	FL52 FILTER_2P_01005-1 single_brd[11A7]	L210_RF IND_0806 radio_mib[27B3]single_brd[21]				
	C929_RF CAP_01005 radio_mib[33B4]single_brd[21]	C1702_RF CAP_0201 radio_mib[41D7]single_brd[21]	FL53 FILTER_2P_01005-1 single_brd[16A3]	L211_RF IND_TFA252010-SM radio_mib[27B3]single_brd[21]				
	C931_RF CAP_01005 radio_mib[33A1]single_brd[21]	C1703_RF CAP_01005 radio_mib[41D5]single_brd[21]	FL54 FILTER_2P_01005 single_brd[16C7]	L908_RF FILTER_2P_01005-1 radio_mib[33B5]single_brd[21]				
	C932_RF CAP_02-LF radio_mib[33A4]single_brd[21]	C1704_RF CAP_01005 radio_mib[41D5]single_brd[21]	FL55 FILTER_2P_01005 single_brd[14A5]	L909_RF IND_01005 radio_mib[32C3]single_brd[21]				
	C934_RF CAP_0402 radio_mib[33A4]single_brd[21]	C1707_RF CAP_01005 radio_mib[41C6]single_brd[21]	FL56 FILTER_2P_01005 single_brd[14A5]	L802_RF IND_01005 radio_mib[32C3]single_brd[21]				
	C936_RF CAP_01005 radio_mib[33B6]single_brd[21]	C1712_RF CAP_201 radio_mib[41A6]single_brd[21]	FL57 FILTER_2P_01005 single_brd[11B7]	L803_RF IND_01005 radio_mib[32B3]single_brd[21]				
	C937_RF CAP_01005 radio_mib[33A6]single_brd[21]	C1717_RF CAP_01005 radio_mib[41D4]single_brd[21]	FL58 FILTER_2P_01005 single_brd[11C7]	L804_RF IND_01005 radio_mib[32C3]single_brd[21]				
	C938_RF CAP_01005 radio_mib[33A6]single_brd[21]	C1726_RF CAP_0201 radio_mib[41D6]single_brd[21]	FL59 FILTER_2P_0201 single_brd[4B3]	L805_RF IND_01005 radio_mib[32C3]single_brd[21]				
	C939_RF CAP_01005 radio_mib[33A3]single_brd[21]	C1727_RF CAP_01005 radio_mib[41C7]single_brd[21]	FL60 FILTER_2P_01005-1 single_brd[16A3]	L901_RF IND_0201 radio_mib[33D7]single_brd[21]				
	C940_RF CAP_0201 radio_mib[33A4]single_brd[21]	C1729_RF CAP_01005 radio_mib[41D6]single_brd[21]	FL61 FILTER_2P_01005 single_brd[18D2]	L903_RF IND_0201 radio_mib[33D5]single_brd[21]				
	C941_RF CAP_0402-1 radio_mib[33B7]single_brd[21]	C1730_RF CAP_01005-1 radio_mib[41D4]single_brd[21]	FL62 FILTER_2P_01005 single_brd[18B2]	L904_RF IND_0201 radio_mib[33C5]single_brd[21]				
	C942_RF CAP_01005 radio_mib[33D3]single_brd[21]	C1801_RF CAP_0402-1 radio_mib[42C6]single_brd[21]	FL1001_RF FIL_SAFFB836NALDP57 radio_mib[34C7]single_brd[21]	L906_RF FILTER_2P_01005-1 radio_mib[33C5]single_brd[21]				
	C943_RF CAP_01005 radio_mib[33B6]single_brd[21]	C1802_RF CAP_01005 radio_mib[42C6]single_brd[21]	FL1002_RF FILTER_SAW_1N40UT-L radio_mib[34D6]single_brd[21]	L908_RF FILTER_2P_01005-1 radio_mib[33B5]single_brd[21]				
	C944_RF CAP_0201 radio_mib[33D3]single_brd[21]	C1803_RF CAP_01005 radio_mib[42C5]single_brd[21]	LP	L909_RF IND_01005-1 radio_mib[33B5]single_brd[21]				
	C1001_RF CAP_01005 radio_mib[34D7]single_brd[21]	C1804_RF CAP_01005 radio_mib[42C5]single_brd[21]	FL1101_RF FILTER_SAW_1N40UT-L radio_mib[35C7]single_brd[21]	L910_RF FILTER_2P_01005-1 radio_mib[33B5]single_brd[21]				
	C1002_RF CAP_01005 radio_mib[34D7]single_brd[21]	C1805_RF CAP_201 radio_mib[42A4]single_brd[21]	LP	L911_RF FILTER_2P_01005-1 radio_mib[33A5]single_brd[21]				
	C1003_RF CAP_01005 radio_mib[34D5]single_brd[21]	C1807_RF CAP_0201 radio_mib[42C2]single_brd[21]	FL1101_RF FILTER_SAW_1N40UT-L radio_mib[35C7]single_brd[21]	L913_RF FILTER_2P_01005-1 radio_mib[33A3]single_brd[21]				
	C1005_RF CAP_01005 radio_mib[34C8]single_brd[21]	C1809_RF CAP_402 radio_mib[42C2]single_brd[21]	FL1301_RF FILTER_SAFFB1G84FB0F radio_mib[37C6]single_brd[21]	L914_RF FILTER_2P_01005 radio_mib[33A5]single_brd[21]				
	C1006_RF CAP_01005 radio_mib[34C5]single_brd[21]	C1810_RF CAP_0201 radio_mib[42A7]single_brd[21]	57_LLP	L915_RF IND_0201 radio_mib[33C4]single_brd[21]				
	C1007_RF CAP_01005 radio_mib[34C4]single_brd[21]	C1811_RF CAP_201 radio_mib[42C3]single_brd[21]	FL1302_RF FILTER_3P4_LFL18766M radio_mib[37B5]single_brd[21]	L916_RF IND_0201 radio_mib[33C4]single_brd[21]				
	C1008_RF CAP_01005 radio_mib[34C3]single_brd[21]	CL1 CLIP_3P_SM single_brd[21A8]	TH1D93	L917_RF IND_0201 radio_mib[33A7]single_brd[21]				
	C1009_RF CAP_01005 radio_mib[34C3]single_brd[21]	D1 DIODE_SCHOT_2P_SOD-9 single_brd[13B2]	FL1401_RF FIL_SAFFB1G95KA0P57 radio_mib[38C7]single_brd[21]	L918_RF FILTER_2P_0201 radio_mib[33C7]single_brd[21]				
	C1011_RF CAP_01005 radio_mib[34C3]single_brd[21]	23-HF	LGA	L920_RF IND_0201 radio_mib[33C6]single_brd[21]				
	C1012_RF IND_0201 radio_mib[34B6]single_brd[21]	D2 DIODE_SCHOT_SOD882 single_brd[13B3]	FL1402_RF FIL_SAFFB1G73KA0P57 radio_mib[38B7]single_brd[21]	L921_RF IND_0201 radio_mib[33B7]single_brd[21]				
	C1013_RF CAP_0201 radio_mib[34B2]single_brd[21]	D3 DIODE_SCHOT_LLDP-DFN1 single_brd[8C6]	LP	L922_RF IND_0201 radio_mib[33A7]single_brd[21]				
	C1014_RF CAP_01005 radio_mib[34B2]single_brd[21]	006-2	FL1501_RF FILTER_SAW_1N40UT-L radio_mib[39C6]single_brd[21]	L923_RF IND_0201 radio_mib[33D4]single_brd[21]				
	C1016_RF CAP_01005 radio_mib[34B2]single_brd[21]	D4 DIODE_SCHOT_SM-201 single_brd[17B4]	LP	L924_RF IND_0201 radio_mib[33D4]single_brd[21]				
	C1018_RF CAP_01005 radio_mib[34A4]single_brd[21]	D5 DIODE_SCHOT_SOD882 single_brd[19D3]	FL1701_RF FILTER_3P5_LFE18832M radio_mib[41D7]single_brd[21]	L925_RF FILTER_2P_01005-1 radio_mib[33B6]single_brd[21]				
	C1019_RF CAP_01005 radio_mib[34A4]single_brd[21]	D7 DIODE_SCHOT_SOD523 single_brd[12C6]	HCLD449	L926_RF IND_0402 radio_mib[33B7]single_brd[21]				
	C1020_RF CAP_01005 radio_mib[34C4]single_brd[21]	D21 SUPPR_TRANSIENT_2P1_ single_brd[8B5]	FL1702_RF FILTER_SAW_1N20UT-L radio_mib[41C5]single_brd[21]	L1001_RF IND_01005 radio_mib[34D8]single_brd[21]				
	C1021_RF CAP_01005 radio_mib[34C5]single_brd[21]	01005-1	LP	L1002_RF IND_01005 radio_mib[34D5]single_brd[21]				
	C1022_RF CAP_0201-MUR radio_mib[34C4]single_brd[21]	D22 SUPPR_TRANSIENT_2P1_ single_brd[8B6]	J1 CON_M34ST_D4MT_SM1-M single_brd[11C5]	L1003_RF IND_01005 radio_mib[34C6]single_brd[21]				
	C1023_RF RES_201 radio_mib[34B6]single_brd[21]	01005-1	-ST-SM	L1004_RF CAP_0201 radio_mib[34B7]single_brd[21]				
	C1101_RF CAP_01005 radio_mib[35C8]single_brd[21]	D23 SUPPR_TRANSIENT_2P1_ single_brd[8B6]	J2 CON_M10ST_D2MT_SM-M- single_brd[8B5]	L1005_RF IND_0201 radio_mib[34B2]single_brd[21]				
	C1102_RF CAP_01005 radio_mib[35C7]single_brd[21]	01005-1	ST-SM	L1006_RF CAP_01005 radio_mib[34C8]single_brd[21]				
	C1103_RF CAP_01005 radio_mib[35C6]single_brd[21]	D24 ZENER_GDZ-0201 single_brd[17D4]	J3 CON_M32ST_D4MT_SM-M- single_brd[20C4]	L1007_RF IND_P_01005 radio_mib[34B3]single_brd[21]				
	C1104_RF CAP_01005 radio_mib[35C5]single_brd[21]	D27 SUPPR_TRANSIENT_2P1_ single_brd[8B7]	ST-SM	L1009_RF IND_01005 radio_mib[34A5]single_brd[21]				
	C1105_RF CAP_01005 radio_mib[35C5]single_brd[21]	01005-1	J4 CON_M42ST_D4MT_SM-M- single_brd[18B7]	L1010_RF IND_01005 radio_mib[34C7]single_brd[21]				
	C1107_RF CAP_01005 radio_mib[35C5]single_brd[21]	D29 SUPPR_TRANSIENT_2P1_ single_brd[16C6]	ST-SM	L1102_RF IND_01005 radio_mib[35C6]single_brd[21]				
	C1108_RF CAP_0201-MUR radio_mib[35C4]single_brd[21]	01005	J5 CON_M28ST_D4MT_SM-M- single_brd[18C4]	L1103_RF CAP_201 radio_mib[35B4]single_brd[21]				
	C1109_RF CAP_01005 radio_mib[35B6]single_brd[21]	DZ10 SUPPR_TRANSIENT_2P1_ single_brd[16C6]	ST-SM	L1104_RF IND_0201 radio_mib[35B2]single_brd[21]				
	C1110_RF CAP_01005 radio_mib[35B6]single_brd[21]	01005	CON_F8ST_D6MT_SM_F-S single_brd[21D7]	L1105_RF RES_201 radio_mib[35C2]single_brd[21]				
	C1111_RF IND_0201 radio_mib[35C4]single_brd[21]	DZ11 SUPPR_TRANSIENT_2P1_ single_brd[16C6]	T-SM	L1106_RF IND_01005 radio_mib[35D1]single_brd[21]				
	C1112_RF RES_0201 radio_mib[35C4]single_brd[21]	01005	J7 CON_M30ST_D4MT_SM-M- single_brd[16C4]	L1107_RF IND_01005 radio_mib[35C2]single_brd[21]				
	C1113_RF IND_0201 radio_mib[35C1]single_brd[21]	DZ12 SUPPR_TRANSIENT_2P1_ single_brd[16C6]	ST-SM	L1108_RF IND_01005 radio_mib[35C1]single_brd[21]				
	C1114_RF CAP_01005 radio_mib[35D2]single_brd[21]	01005	J10_RF CON_M54ST_D4MT_SM-M- radio_mib[26D2]single_brd[21]	L1201_RF IND_P_TFA201610G-SM radio_mib[36D6]single_brd[21]				
	C1115_RF CAP_01005 radio_mib[35C2]single_brd[21]	DZ13 SUPPR_TRANSIENT_2P1_ single_brd[16A5]	ST-SM	L1202_RF FILTER_2P_01005 radio_mib[36C5]single_brd[21]				
	C1116_RF CAP_01005 radio_mib[35C2]single_brd[21]	01005	J101_RF CON_F6ST_6MT_SIMCARD radio_mib[26A6]single_brd[21]	L1203_RF IND_01005 radio_mib[36C7]single_brd[21]				
	C1117_RF CAP_201 radio_mib[35B1]single_brd[21]	DZ14 SUPPR_TRANSIENT_2P1_ single_brd[16A5]	_SM3_F-ST-SM	L1204_RF IND_0201 radio_mib[36B3]single_brd[21]				
	C1118_RF CAP_01005 radio_mib[35B6]single_brd[21]	01005	J2					

	8	7	6	5	4	3	2	1
	L1609_RF	IND_01005	radio_mib[40A3]single_brd[21]	R70	RES_01005	single_brd[12C7]		
	L1610_RF	IND_01005	radio_mib[40A3]single_brd[21]	R71	RES_01005	single_brd[2B3]		
	L1706_RF	IND_01005	radio_mib[41C4]single_brd[21]	R72	RES_01005	single_brd[4D7]		
	L1707_RF	IND_01005	radio_mib[41C4]single_brd[21]	R73	RES_01005	single_brd[4D7]		
	L1709_RF	IND_01005	radio_mib[41B4]single_brd[21]	R74	RES_01005	single_brd[6C2]		
	L1710_RF	RES_201	radio_mib[41A7]single_brd[21]	R75	RES_01005	single_brd[14D2]		
	L1713_RF	IND_01005	radio_mib[41C4]single_brd[21]	R76	RES_01005	single_brd[3C7]		
	L1715_RF	IND_03015	radio_mib[41D3]single_brd[21]	R77	RES_01005	single_brd[5C7]		
	L1716_RF	IND_01005	radio_mib[41B6]single_brd[21]	R78	RES_01005	single_brd[6C7]		
	L1724_RF	IND_03015	radio_mib[41D8]single_brd[21]	R79	RES_01005	single_brd[17B5]		
	L1726_RF	FILTER_0P_01005	radio_mib[41C7]single_brd[21]	R80	RES_01005	single_brd[17A5]		
	L1732_RF	IND_03015	radio_mib[41D6]single_brd[21]	R81	RES_01005	single_brd[22C4]		
	L1812_RF	IND_0201	radio_mib[42D5]single_brd[21]	R82	RES_01005	single_brd[6C6]		
	PP1	PROBEPOINT_SM	single_brd[2B6]	R83	RES_01005	single_brd[15C7]		
	PP2	PROBEPOINT_SM	single_brd[6B7]	R84	RES_01005	single_brd[15B7]		
	PP3	PROBEPOINT_SM	single_brd[6B7]	R85	RES_01005	single_brd[11B3]		
	PP4	PROBEPOINT_SM	single_brd[2B6]	R86	RES_01005	single_brd[17C5]		
	PP5	PROBEPOINT_SM	single_brd[6B4]	R87	RES_01005	single_brd[13C2]		
	PP6	PROBEPOINT_SM	single_brd[6B4]	R88	RES_01005	single_brd[15B3]		
	PP7	PROBEPOINT_SM	single_brd[17C7]	R89	RES_01005	single_brd[18C6]		
	PP8	PROBEPOINT_SM	single_brd[17C7]	R90	THERMISTER_0201	single_brd[12A4]		
	PP9	PROBEPOINT_SM	single_brd[17B5]	R91	RES_01005	single_brd[19A5]		
	PP10	PROBEPOINT_SM	single_brd[6B7]	R92	RES_01005	single_brd[12B3]		
	PP11	PROBEPOINT_SM	single_brd[17B7]	R93	RES_01005	single_brd[3D2]		
	PP14	PROBEPOINT_SM	single_brd[3D2]	R94	RES_01005	single_brd[22B4]		
	PP16	PROBEPOINT_SM	single_brd[3D2]	R95	RES_01005	single_brd[17A4]		
	PP18	PROBEPOINT_SM	single_brd[17B1]	R96	RES_01005	single_brd[14C6]		
	PP102_RF	PROBEPOINT_SM	radio_mib[42A4]single_brd[21]	R97	RES_01005	single_brd[13C3]		
	PP106_RF	PROBEPOINT_SM	radio_mib[26C6]single_brd[21]	R98	RES_01005	single_brd[10D6]		
	PP107_RF	PROBEPOINT_SM	radio_mib[26C6]single_brd[21]	R99	RES_01005	single_brd[13C3]		
	PP1801_RF	PROBEPOINT_SM	radio_mib[42B4]single_brd[21]	R100	RES_01005	single_brd[10B6]		
	PP1802_RF	PROBEPOINT_SM	radio_mib[42A3]single_brd[21]	R101	RES_01005	single_brd[10B4]		
	PP1803_RF	PROBEPOINT_SM	radio_mib[42A3]single_brd[21]	R102	RES_01005	single_brd[10C2]		
	PP1804_RF	PROBEPOINT_SM	radio_mib[42A3]single_brd[21]	R103	RES_01005	single_brd[10C2]		
	PP1805_RF	PROBEPOINT_SM	radio_mib[42A3]single_brd[21]	R104	RES_01005	single_brd[10A4]		
	PP1806_RF	PROBEPOINT_SM	radio_mib[42A3]single_brd[21]	R104_RF	RES_01005	radio_mib[26A5]single_brd[21]		
	PP1807_RF	PROBEPOINT_SM	radio_mib[42A3]single_brd[21]	R105	RES_01005	single_brd[14B3]		
	Q1	TRA_MOSFET_NCHN_3P3_DFN1006H4-3	single_brd[11B3]	R105_RF	RES_01005	radio_mib[26A5]single_brd[21]		
	Q2	TRA_DUAL_CMNSRC_PCH_9P_CSP	single_brd[16B7 16B6]	R106	RES_01005	single_brd[17B5]		
	Q3	TRA_MOSFET_PCHN_3P3_DFN	single_brd[19B4]	R107	RES_01005	single_brd[16D7]		
	Q4	TRA_MOSFET_PCHN_9P_BGA	single_brd[12C8]	R108	THERMISTER_0201	single_brd[12A8]		
	Q5	TRA_MOSFET_NCHN_6P3_BGA	single_brd[12D5]	R109	RES_0201	single_brd[12B8]		
	Q6	TRA_MOSFET_NCHN_6P3_BGA	single_brd[12D2]	R110	THERMISTER_0201	single_brd[12A7]		
	Q7	TRA_MOSFET_NCHN_3P11_SM	single_brd[19B3]	R111	RES_01005	single_brd[15C3]		
	Q8	TRA_MOSFET_NCHN_3P3_DFN1006H4-3	single_brd[8C6]	R112	RES_01005	single_brd[13B6]		
	Q10	TRA_MOSFET_NCHN_3P11_SM	single_brd[19B7]	R113	RES_01005	single_brd[13B6]		
	R1	RES_01005	single_brd[2D7]	R114	RES_01005	single_brd[3D2]		
	R2	RES_01005	single_brd[17B1]	R115	RES_01005	single_brd[3D2]		
	R3	RES_01005	single_brd[11A7]	R116	RES_201	single_brd[13D4]		
	R4	RES_01005	single_brd[13D5]	R117	RES_01005	single_brd[8C7]		
	R5	RES_01005	single_brd[3D5]	R118	RES_01005	single_brd[8C6]		
	R6	RES_01005	single_brd[2B3]	R119	RES_01005	single_brd[16B3]		
	R7	RES_01005	single_brd[2C3]	R120	RES_01005	single_brd[17A4]		
	R8	RES_01005	single_brd[6B2]	R121	RES_201	single_brd[14C3]		
	R9	RES_01005	single_brd[11A7]	R122	RES_01005	single_brd[19A7]		
	R10	RES_01005	single_brd[16D2]	R123	RES_01005	single_brd[11C7]		
	R11	RES_01005	single_brd[10D2]	R124	RES_01005	single_brd[16C2]		
	R12	RES_01005	single_brd[8C7]	R125	RES_01005	single_brd[16C2]		
	R13	RES_01005	single_brd[11B2]	R126	RES_01005	single_brd[16C2]		
	R14	RES_01005	single_brd[11B2]	R127	RES_01005	single_brd[16C2]		
	R15	RES_01005	single_brd[3D5]	R128	RES_01005	single_brd[16C2]		
	R16	RES_01005	single_brd[3D3]	R129	RES_01005	single_brd[16B7]		
	R17	RES_01005	single_brd[3D3]	R130	RES_01005	single_brd[17B7]		
	R18	RES_01005	single_brd[3D3]	R131	RES_01005	single_brd[6C5]		
	R19	RES_01005	single_brd[3D3]	R132	RES_01005	single_brd[20C5]		
	R20	RES_01005	single_brd[3A4]	R133	RES_01005	single_brd[6C5]		
	R21	RES_01005	single_brd[3A4]	R134	RES_01005	single_brd[9B3]		
	R22	RES_01005	single_brd[16D2]	R135	RES_01005	single_brd[10A7]		
	R23	RES_01005	single_brd[13A6]	R136	RES_01005	single_brd[10B7]		
	R24	RES_01005	single_brd[13D5]	R137	RES_01005	single_brd[18B3]		
	R25	RES_01005	single_brd[17C7]	R138	RES_01005	single_brd[28D4]single_brd[21]		
	R26	RES_01005	single_brd[4A8]	R139	RES_01005	radio_mib[28D3]single_brd[21]		
	R27	RES_01005	single_brd[4A8]	R140	RES_01005	radio_mib[28D4]single_brd[21]		
	R28	RES_01005	single_brd[4A8]	R141	RES_01005	radio_mib[28D3]single_brd[21]		
	R29	RES_01005	single_brd[4A6]	R142	RES_01005	radio_mib[28B4]single_brd[21]		
	R30	RES_01005	single_brd[4A6]	R143	RES_01005	radio_mib[28B2]single_brd[21]		
	R31	RES_01005	single_brd[4A5]	R144	RES_01005	radio_mib[28C7]single_brd[21]		
	R32	RES_01005	single_brd[4A5]	R145	RES_01005	radio_mib[28C8]single_brd[21]		
	R33	RES_01005	single_brd[4A4]	R146	RES_01005	radio_mib[28C8]single_brd[21]		
	R34	RES_01005	single_brd[4A4]	R147	RES_01005	radio_mib[28B4]single_brd[21]		
	R35	RES_201	single_brd[14C4]	R148	RES_01005	radio_mib[29A5]single_brd[21]		
	R36	RES_01005	single_brd[17A2]	R149	RES_01005	radio_mib[29B2]single_brd[21]		
	R37	RES_01005	single_brd[7D2]	R150	RES_01005	radio_mib[29B4]single_brd[21]		
	R38	RES_01005	single_brd[7C2]	R151	RES_01005	radio_mib[29A5]single_brd[21]		
	R39	RES_01005	single_brd[7D2]	R152	RES_01005	radio_mib[29A5]single_brd[21]		
	R40	RES_01005	single_brd[7D2]	R153	RES_01005	radio_mib[29A5]single_brd[21]		
	R41	RES_01005	single_brd[15C7]	R154	RES_01005	radio_mib[29A5]single_brd[21]		
	R42	RES_01005	single_brd[15C7]	R155	RES_01005	radio_mib[29A5]single_brd[21]		
	R43	RES_201	single_brd[15C7]	R156	RES_01005	radio_mib[29A5]single_brd[21]		
	R44	RES_201	single_brd[15C7]	R157	RES_01005	radio_mib[29A5]single_brd[21]		
	R45	RES_201	single_brd[11C3]	R158	RES_01005	radio_mib[29A5]single_brd[21]		
	R46	RES_01005	single_brd[18B2]	R159	RES_01005	radio_mib[29A5]single_brd[21]		
	R47	RES_01005	single_brd[18A5]	R160	RES_01005	radio_mib[29A5]single_brd[21]		
	R48	RES_01005	single_brd[18A5]	R161	RES_01005	radio_mib[29A5]single_brd[21]		
	R49	RES_01005	single_brd[18A5]	R162	RES_01005	radio_mib[29A5]single_brd[21]		
	R50	RES_01005	single_brd[8B3]	R163	RES_01005	radio_mib[29A5]single_brd[21]		
	R51	RES_01005	single_brd[8B3]	R164	RES_01005	radio_mib[29A5]single_brd[21]		
	R52	RES_01005	single_brd[3B8]	R165	RES_01005	radio_mib[29A5]single_brd[21]		
	R53	RES_01005	single_brd[19A3]	R166	RES_01005	radio_mib[29A5]single_brd[21]		
	R54	RES_01005	single_brd[19A4]	R167	RES_01005	radio_mib[29A5]single_brd[21]		
	R55	RES_01005	single_brd[19A5]	R168	RES_01005	radio_mib[29A5]single_brd[21]		
	R56	RES_01005	single_brd[19B2]	R169	RES_01005	radio_mib[29A5]single_brd[21]		
	R57	THERMISTER_0201	single_brd[12A5]	R170	RES_01005	radio_mib[29A5]single_brd[21]		
	R58	RES_201	single_brd[16B6]	R171	RES_01005	radio_mib[29A5]single_brd[21]		
	R59	RES_201	single_brd[16B6]	R172	RES_01005	radio_mib[29A5]single_brd[21]		
	R60	RES_01005	single_brd[18B2]	R173	RES_01005	radio_mib[29A5]single_brd[21]		
	R61	RES_01005	single_brd[18A5]	R174	RES_01005	radio_mib[29A5]single_brd[21]		
	R62	RES_01005	single_brd[19C7]	R175	RES_01005	radio_mib[29A5]single_brd[21]		
	R63	RES_01005	single_brd[14D4]	R176	RES_01005	radio_mib[29A5]single_brd[21]		
	R64	RES_01005	single_brd[13C2]	R177	RES_01005	radio_mib[29A5]single_brd[21]		
	R65	RES_01005	single_brd[14C4]	R178	RES_01005	radio_mib[29A5]single_brd[21]		
	R66	RES_01005	single_brd[2B6]	R179	RES_01005	radio_mib[29A5]single_brd[21]		
	R67	RES_01005	single_brd[5D7]	R180	RES_01005	radio_mib[29A5]single_brd[21]		
	R68	RES_01005	single_brd[14D2]	R181	RES_01005	radio_mib[29A5]single_brd[21]		
	R69	RES_01005	single_brd[14D2]	R182	RES_01005	radio_mib[29A5]single_brd[21]		
				R183	RES_01005	radio_mib[29A5]single_brd[21]		
				R184	RES_01005	radio_mib[29A5]single_brd[21]		
				R185	RES_01005	radio_mib[29A5]single_brd[21]		
				R186	RES_01005	radio_mib[29A5]single_brd[21]		
				R187	RES_01005	radio_mib[29A5]single_brd[21]		
				R188	RES_01005	radio_mib[29A5]single_brd[21]		
				R189	RES_01005	radio_mib[29A5]single_brd[21]		
				R190	RES_01005	radio_mib[29A5]single_brd[21]		
				R191	RES_01005	radio_mib[29A5]single_brd[21]		
				R192	RES_01005	radio_mib[29A5]single_brd[21]		
				R193	RES_01005	radio_mib[29A5]single_brd[21]		
				R194	RES_01005	radio_mib[29A5]single_brd[21]		
				R195	RES_01005	radio_mib[29A5]single_brd[21]		
				R196	RES_01005	radio_mib[29A5]single_brd[2		