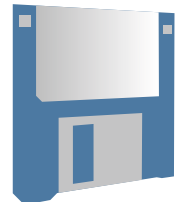




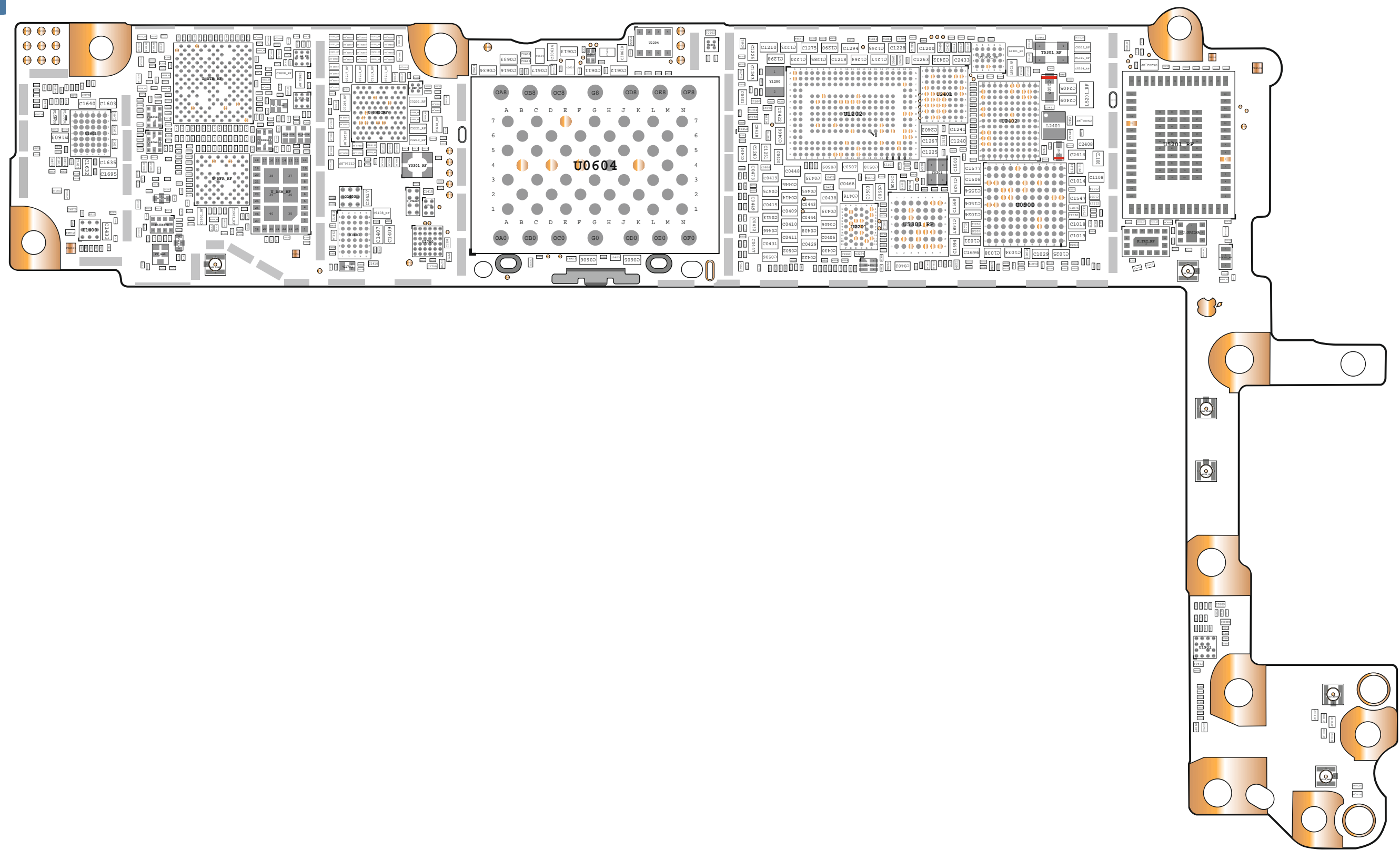
iPhone 6





Mobile  
Files

# iPhone 6



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.

Thu Apr 17 17:11:44 2014

# N61 CARRIER BUILD

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34	35	BASEBAND (1 OF 2)	N61_RADIO_MLB 03/24/2014
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39	40	QFE DCDC	N61_RADIO_MLB 03/24/2014
40	41	2G PA	N61_RADIO_MLB 03/24/2014
41	42	VERY LOW BAND PAD	N61_RADIO_MLB 03/24/2014
42	43	LOW BAND PAD	N61_RADIO_MLB 03/24/2014
43	44	MID BAND PAD	N61_RADIO_MLB 03/24/2014
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51	52	WIFI/BT: MODULE AND FRONT END	N61_RADIO_MLB 03/24/2014
52	53		N61_RADIO_MLB 03/24/2014
53	54	JUMPER	N61_RADIO_MLB 03/24/2014
54	55	JUMPER	N61_RADIO_MLB 03/24/2014

## NAND BOM OPTIONS

	PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0998		1	NAND, 19NM, 16GX8, MLC, PPN1.5	U0604	CRITICAL	NAND_16G
	335S0993	1	NAND, 19NM, 32GX8, MLC, PPN1.5	U0604	CRITICAL	NAND_32G
	335S0994	1	NAND, 19NM, 64GX8, MLC, PPN1.5	U0604	CRITICAL	NAND_64G
	335S00010	1	NAND, 19NM, 128GX8, TLC, PPN1.5	U0604	CRITICAL	NAND_128G
	138S0867	1	DAP, X5R, 10UF, 20%, 6.3V, 0.65MM, HRTZ, 0402	C0610, C0611, C0614, C0634	CRITICAL	NAND_16G
	138S0867	1	DAP, X5R, 10UF, 20%, 6.3V, 0.65MM, HRTZ, 0402	C0613, C0633, C0610, C0611, C0614, C0634	CRITICAL	NAND_32G & NAND_64G
	138S00003	1	DAP, X5R, 15UF, 20%, 6.3V, 0.65MM, HRTZ, 0402	C0613, C0633, C0610, C0611, C0614, C0634	CRITICAL	NAND_128G

## ALTERNATE NAND BOM OPTIONS

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S0992	335S0998	ALTERNATE	0604	TOSHIBA, NAND, 16GB
335S1038	335S0998	ALTERNATE	0604	HYNIX, NAND, 16GB
335S1040	335S0994	ALTERNATE	0604	HYNIX, NAND, 64GB
335S00014	335S0994	ALTERNATE	0604	TOSHIBA, NAND, 64GB
335S00015	335S00010	ALTERNATE	0604	TOSHIBA, NAND128GB
335S00009	335S0994	ALTERNATE	0604	SANDISK, NAND, 64GB, TLC

## SHIELD BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
604-00241	1	SUBASSY, SHIELD, UPPER FRONT, N61	SH2501	CRITICAL	COMMON
604-00242	1	SUBASSY, SHIELD, LOWER FRONT, N61	SH2502	CRITICAL	COMMON
604-00243	1	SUBASSY, SHIELD, LOWER BACK, N61	SH2504	CRITICAL	COMMON
604-00244	1	SUBASSY, SA SHIELD, N61	SH2506	CRITICAL	COMMON

## N61 BOM CALLOUTS

	PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
	051-9903	1	SCH, MLB, N61	SCH	CRITICAL	?
	820-3486	1	PCBF, MLB, N61	PCB	CRITICAL	?
	825-6838	1	EEEE FOR 639-4237 16GB	EEEE_G16T	CRITICAL	EEEE_16G
	825-6838	1	EEEE FOR 639-5838 32GB	EEEE_G16R	CRITICAL	EEEE_32G
		1	EEEE FOR 639-5839 64GB	EEEE_G16Q	CRITICAL	EEEE_64G
	825-6838	1	EEEE FOR 639-00025 128GB	EEEE_G16N	CRITICAL	EEEE_128G
	825-6838	1	EEEE FOR 639-00208 16GB	EEEE_P98F	CRITICAL	EEEE_16G_TDDLTE
825-6838		1	EEEE FOR 639-00209 32GB	EEEE_FQK0	CRITICAL	EEEE_32G_TDDLTE
825-6838		1	EEEE FOR 639-00210 64GB	EEEE_FQJY	CRITICAL	EEEE_64G_TDDLTE
	825-6838	1	EEEE FOR 639-00212 128GB	EEEE_FY9W	CRITICAL	EEEE_128G_TLC_TDDLTE

## ALTERNATE BOM OPTIONS

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S1844	152S1836	ALTERNATE	L1604	TY ALT INDUCTOR
152S1842	152S1849	ALTERNATE	L1519	TY ALT INDUCTOR
97S0392	197S0369	ALTERNATE	Y1200	ESPON ALT XTAL
97S0399	197S0369	ALTERNATE	Y1200	NDK ALT XTAL
338S1285	338S1202	ALTERNATE	U1601	L21 SPKAMP
52S2034	152S2033	ALTERNATE	U309, L1212, L1213	1.2MM 1.0UH, CYNTEC
152S00004	152S2049	ALTERNATE	U310, L1212, L1213	1.2MM 0.47UH, CYNTEC
339S00005	339S0246	ALTERNATE	U0201	FIJI, B0, SAMSUNG
339S0247	339S0246	ALTERNATE	U0201	FIJI, B0, HYNIX
339S00006	339S0246	ALTERNATE	U0201	FIJI, B1, E
339S00007	339S0246	ALTERNATE	U0201	FIJI, B1, H
339S00008	339S0246	ALTERNATE	U0201	FIJI, B1, S
155S0773	155S0453	ALTERNATE		TY 120OHM FERRITE
118S0764	118S0717	ALTERNATE	R1309	3.92KOHM, 01005
343S0688	343S0638	ALTERNATE	U2401	CUMULUS C1, FAB4
138S00005	138S00003	ALTERNATE	C1290	15UF, 0402, HRTZL CAP
155S00011	155S00008	ALTERNATE	L1135	SCF, 90OHM, MURATA
377S0168	377S0140	ALTERNATE	D21113	SUPPL. TRANS, VARISTOR, AMOTEC
155S0885	155S0610	ALTERNATE	FL1802, FL180	FERR NO, 150OHM, 20MM, 01005
138S0648	138S0652	ALTERNATE	C1018	CAP, 4.7UF, 20V, 6.3V, 0402, H=0.45MM
138S0657	138S0702	ALTERNATE	C1106	CAP, 4.7UF, 20V, 4V, 0410
338S00028	338S00017	ALTERNATE	J2203	CARBON, BOSCH, BWH1628C
338S00029	338S00017	ALTERNATE	J2203	CARBON, ST, AP6DS2AA
335S00013	335S0894	ALTERNATE	J0301	ST BK KEPROM

SCH 051-9903  
BRD 820-3486  
MCO 056-6825

BOM 639-4237 (16GB, BETTER)  
BOM 639-5838 (32GB, BEST)  
BOM 639-5839 (64GB, ULTRA)

BOM 639-00208 (16GB,BETTER,DTD)  
BOM 639-00209 (32GB,BEST,DTD)  
BOM 639-00210 (64GB,ULTRA,DTD)

BOM 639-00025(128GB,SUPREME,TLC) BOM 639-00212(128GB,SUPREME,TLC,DTD)

## D



## B

AA

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# FIJI: DIGITAL I/O, BOOTSTRAPPING

D

C

B

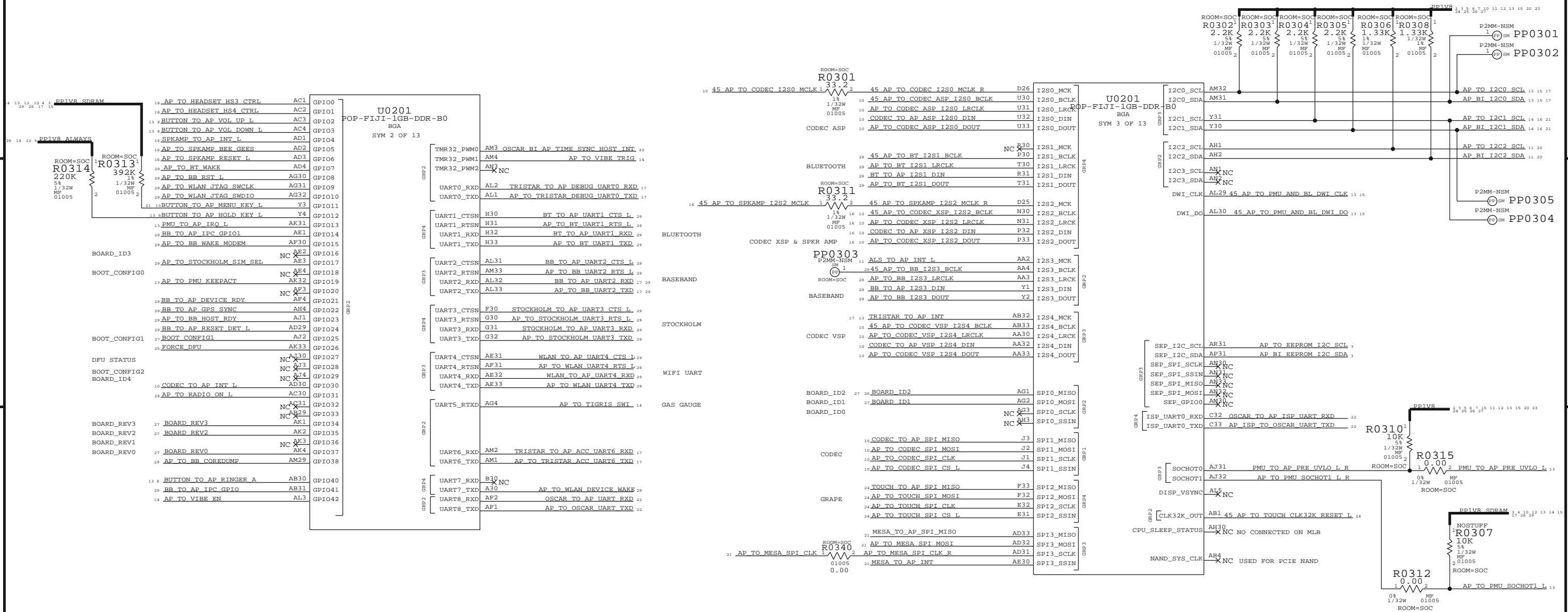
A

D

C


B

A



ANTI-ROLLBACK EEPROM  
ONSEMI EEPROM  
APN: 335S0894

REMOVED HOLD + MENU KEY  
BUFFERS SINCE NOT NEEDED FOR FIJI

SYNC MASTER=N56 MLB		SYNC DATE=08/29/2013	
PAGE TITLE		SOC:I/OS	
 Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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		PAGE	3 OF 55
		SHEET	3 OF 54

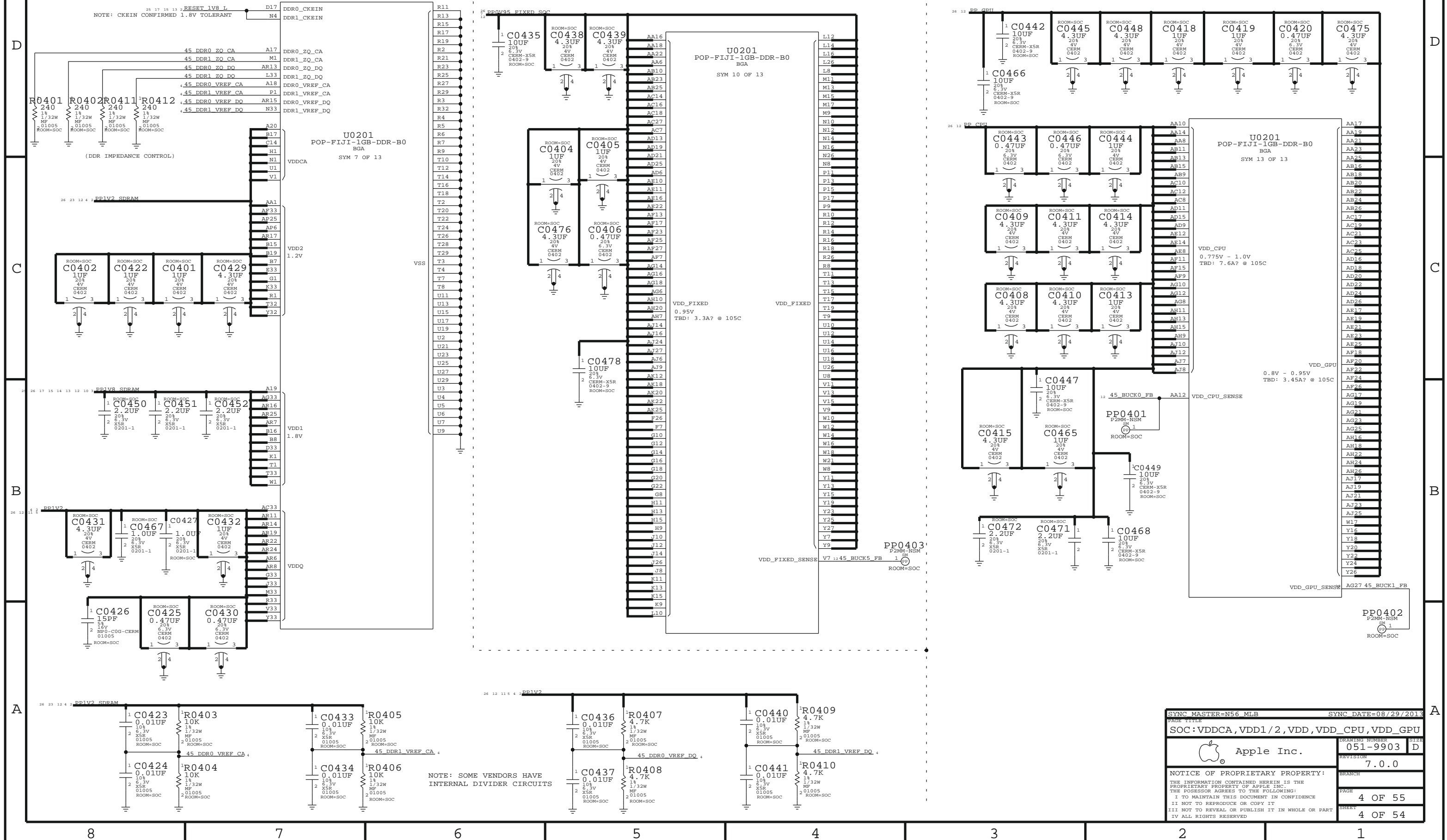


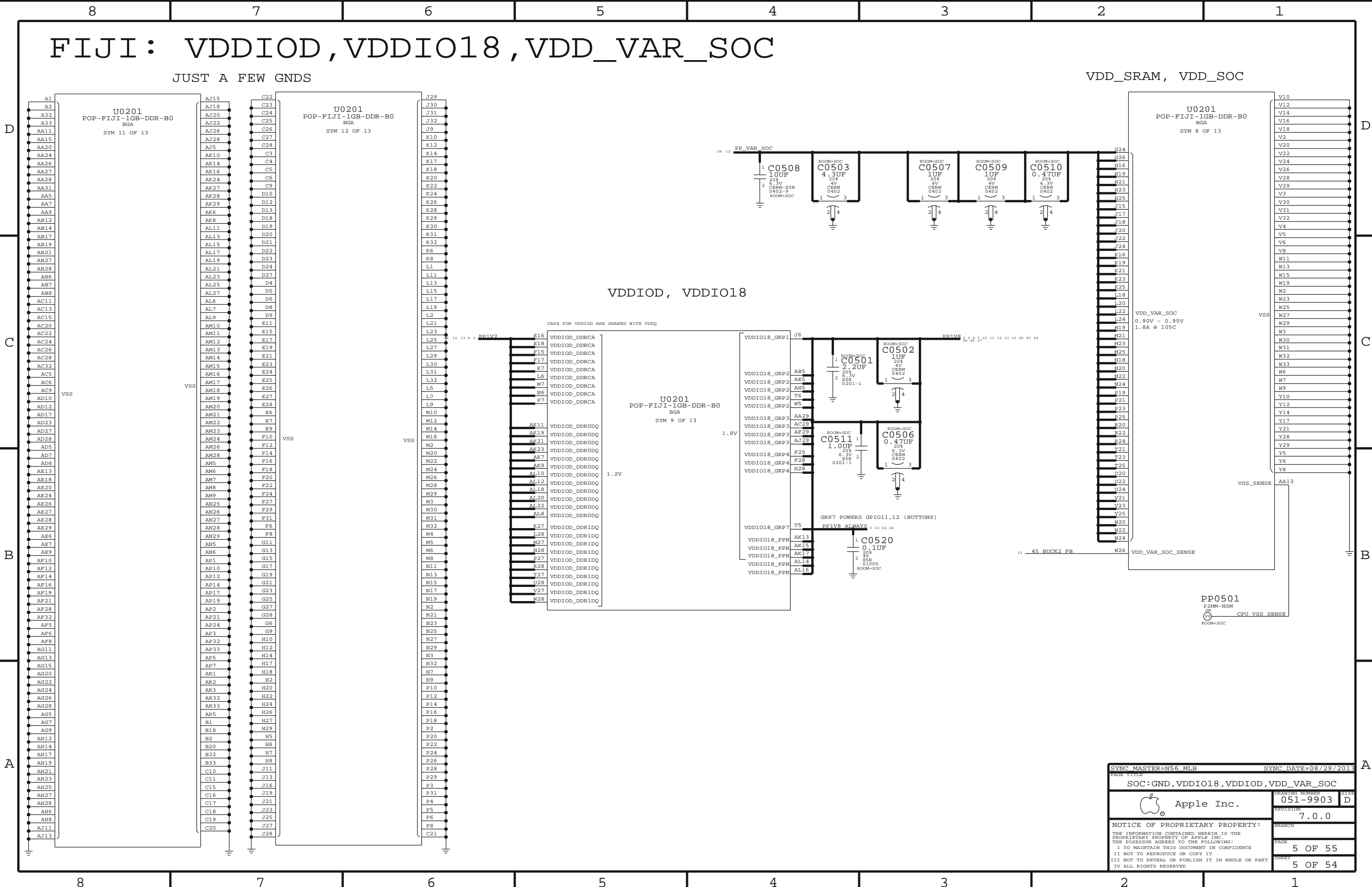
FIJI : VDDCA , VDD1 / 2 , VDDQ , VDD , VDD\_FIXED , VDD\_CPU , VDD\_GPU

VDDCA, VDD1/2, VDDQ

VDD

VDD\_CPU, VDD\_GPU





## D

C



A



C

B

A



## D

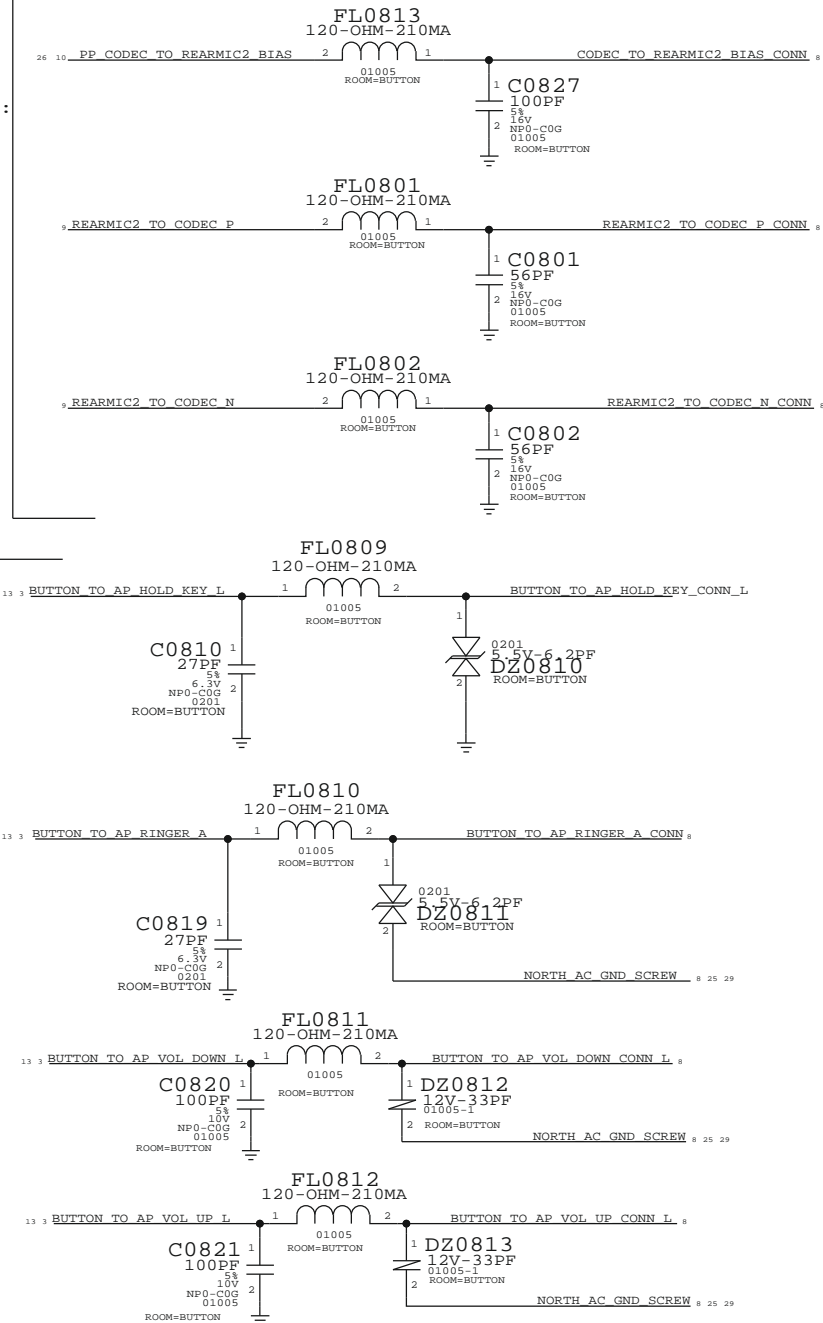
A

8 7 6 5 4 3 2 1

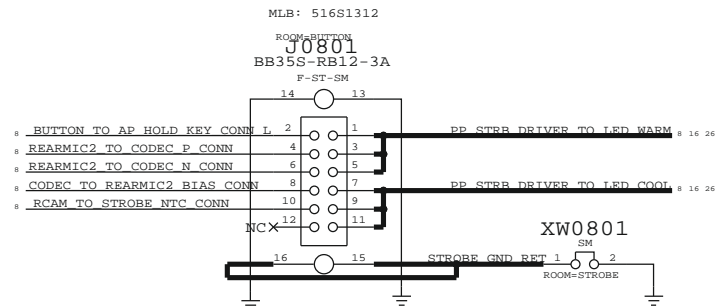
# BUTTON FLEX (BUTTONS, ANC REF MIC, STROBE, STROBE\_NTC, WIFI FLEX PAC)

MIC2 (ANC REF MIC):  
MIC2/4 BIAS,  
MIC2\_P,\_N

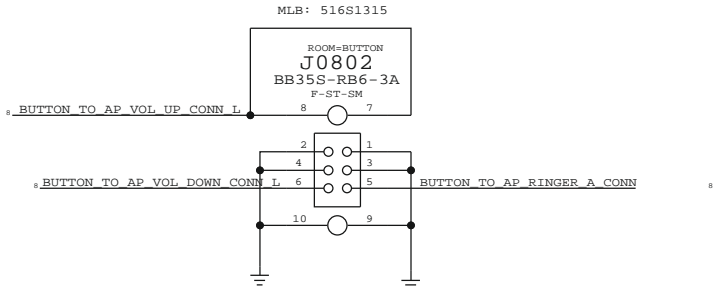
BUTTONS:  
RINGER, HOLD,  
VOL\_UP/DOWN,



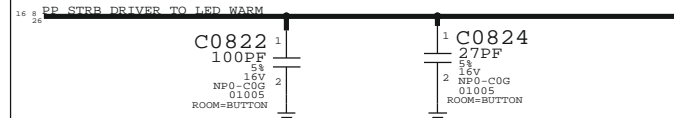
## RIGHT BUTTON B2B



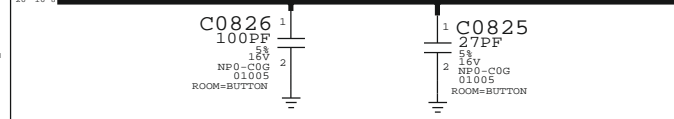
## LEFT BUTTON B2B



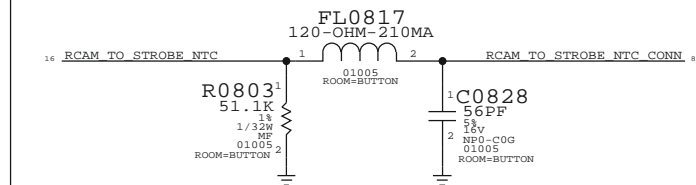
STROBE:  
LED WARM




STROBE:  
LED COOL



STROBE:  
NTC

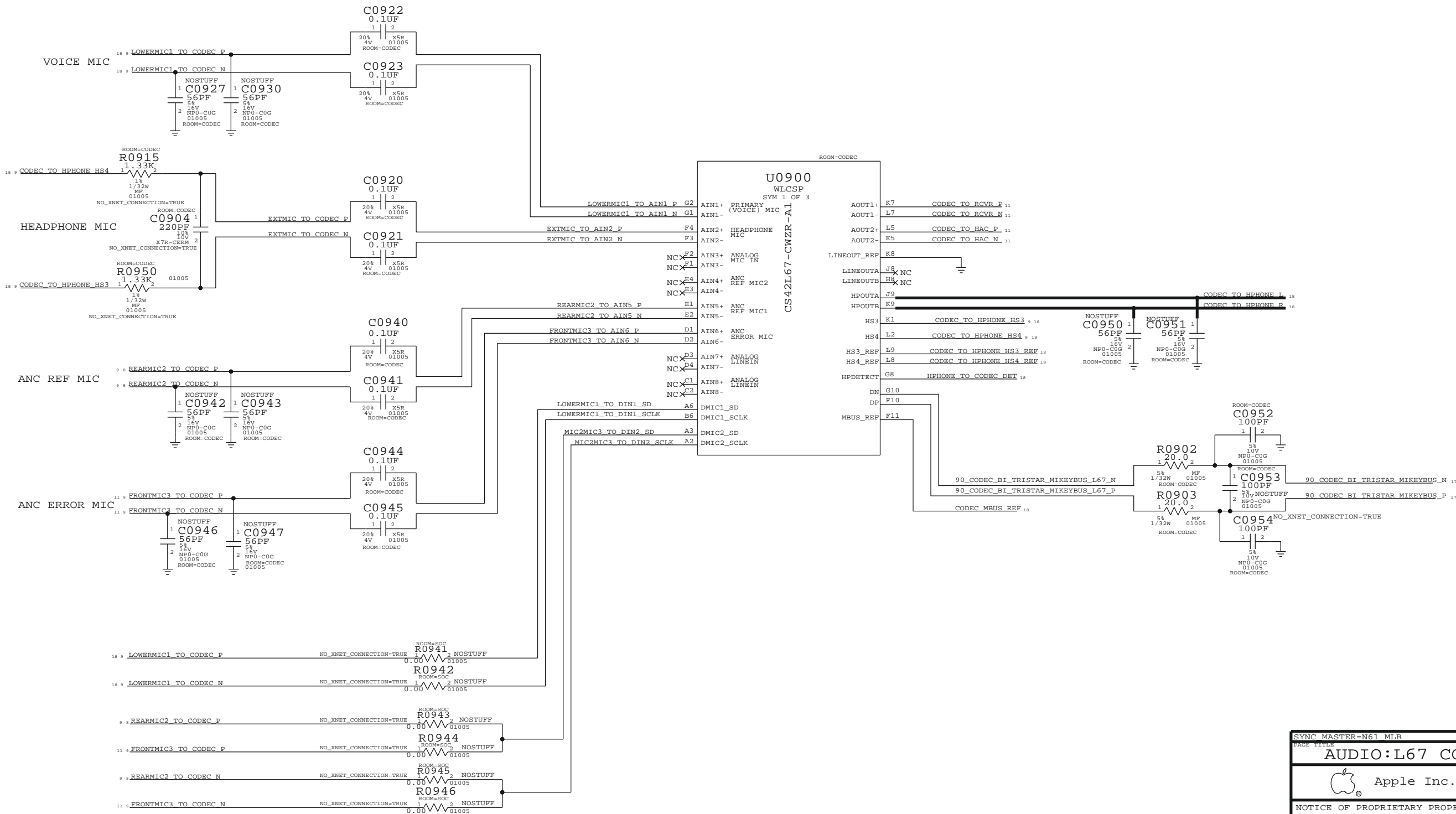



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
IO:BUTTON FLEX CONN			
	Apple Inc.	DRAWING NUMBER	051-9903
		SIZE	D
		REVISION	7.0.0
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# L67 AUDIO CODEC

## AUDIO I/O

(ANALOG MIC IN, DIG MIC IN, HPOUT, LINEOUT, RECEIVER OUT, MIKEYBUS)



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
AUDIO:L67 CODEC (1/2)			
 Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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		PAGE	9 OF 55
		SHEET	9 OF 54

## D

## C



## D



# FRONT CAM FLEX B2B

(FCAM, PROX, ALS, RECEIVER, ANC ERROR MIC)

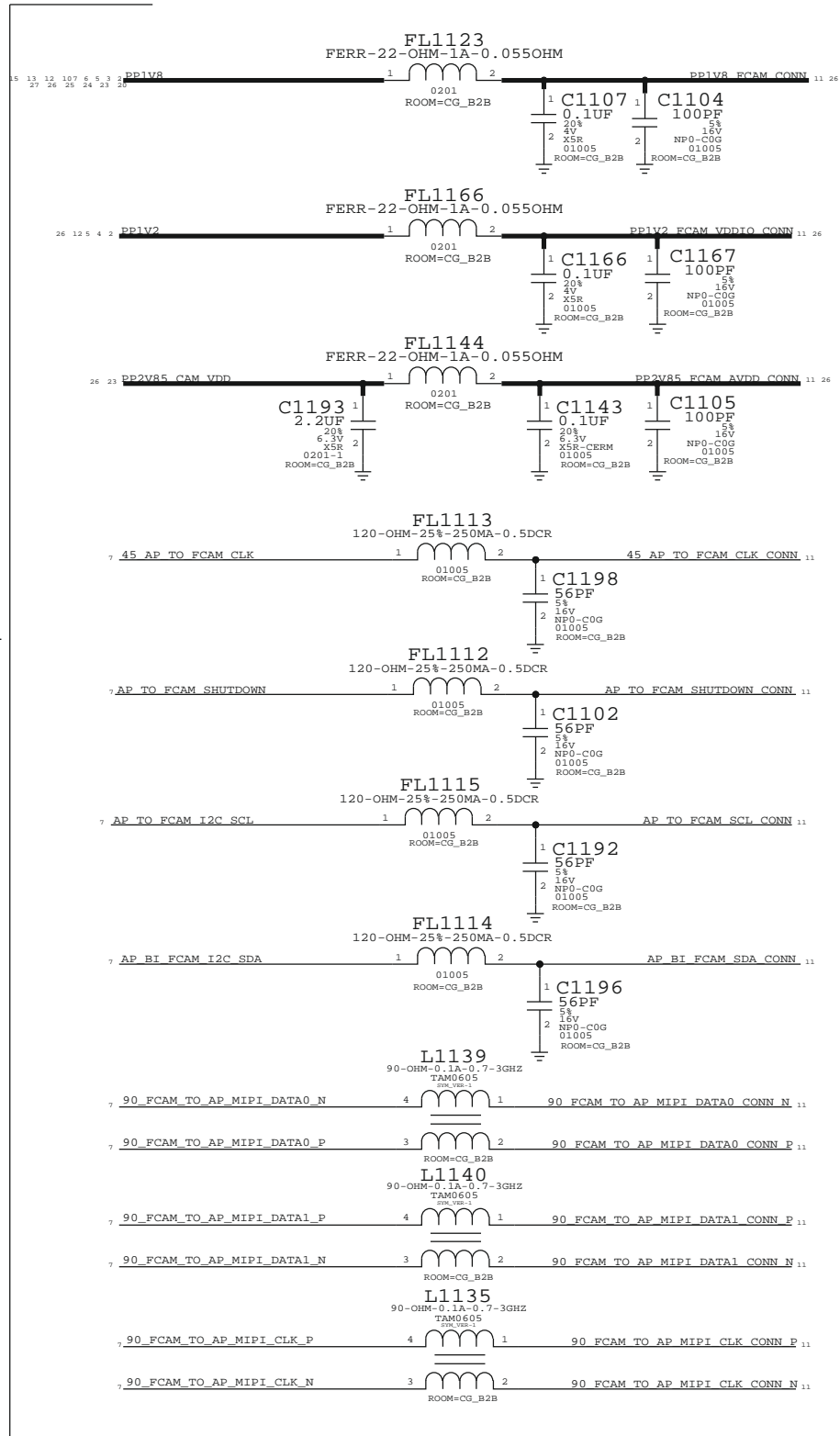
D

C

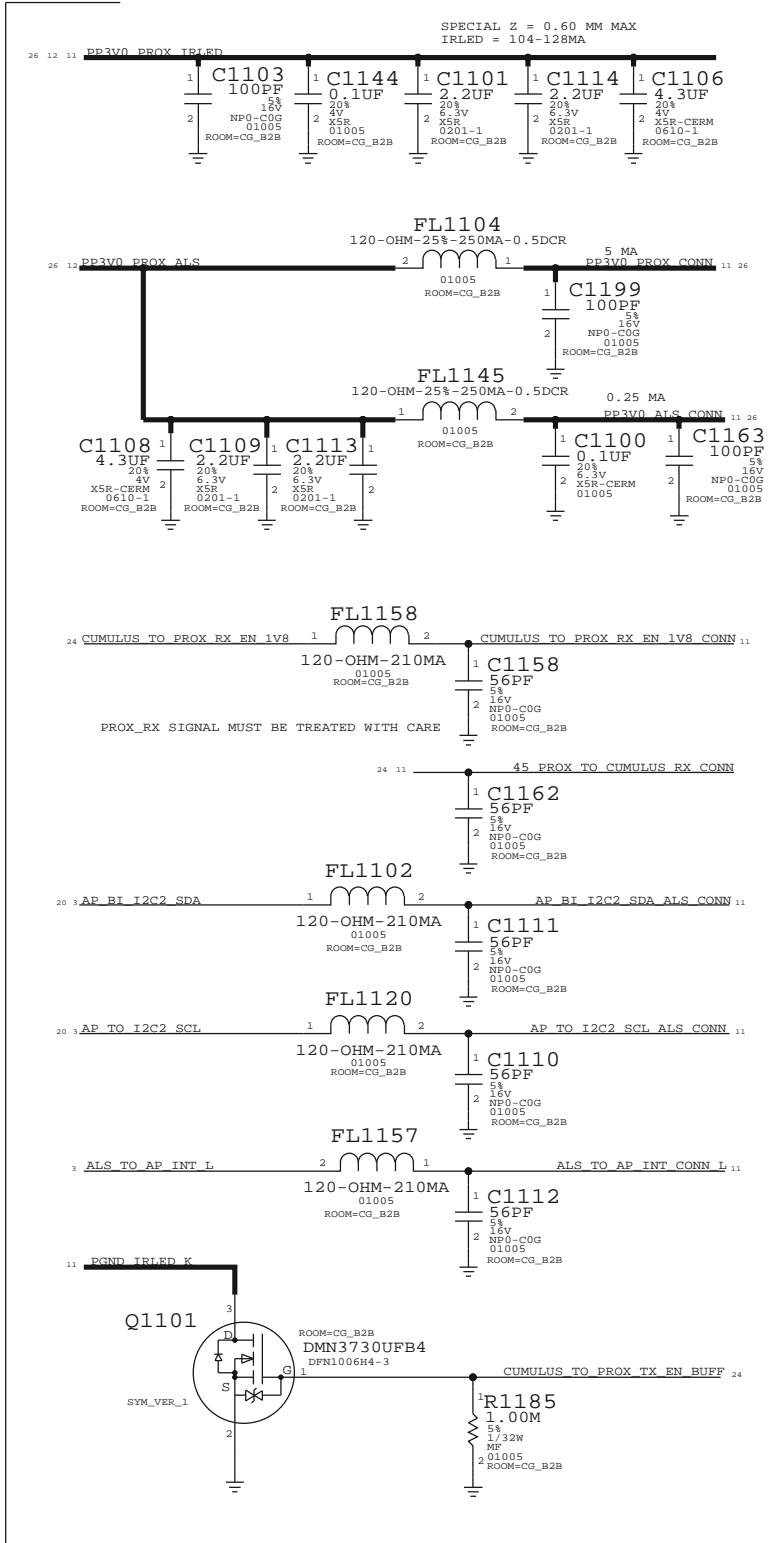
CAMERA

B

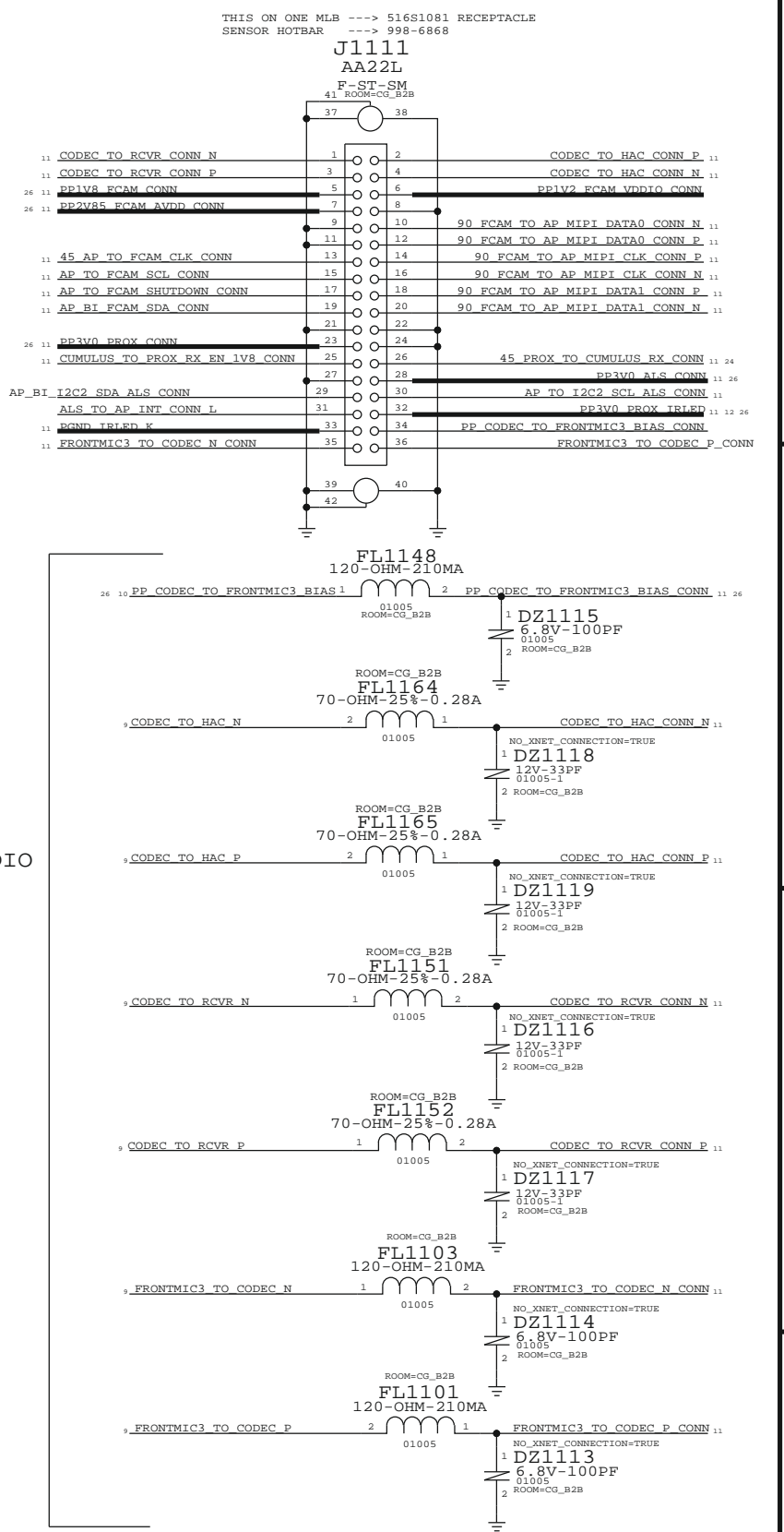
A




ALS,  
PROX



AUDIO



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
CAMERA:FRONT FLEX CONN			
 Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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# ADI PMU

(BUCK, LDO, VIBE DRIVER, 32K, CHARGER)

NOTE: L1210, L1212 BOMPTIONS  
CONTROLLED ON PAGE1

APN: 338S1251 (ADI AZ)

U1202

D2186AZE0FJAVAC

FCCSP-N56-N61

ROOM=PMU

SYM 1 OF 3

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

VDD\_LDO9\_11

VDD\_VIB

VIB

VIB\_PWM\_EN

XTAL1

XTAL2

VSS\_RTC

VBUS\_OVP\_OFF

VCENTER

VBUS

IBAT

VBAT

ACT\_DIO

CHG\_LX

VCC\_MAIN

VCC\_MAIN\_S

VDD\_BUCK1

VDD\_BUCK2

VDD\_BUCK3

VDD\_BUCK4

VDD\_BUCK5

VDD\_BUCK6

VDD\_BYP\_BUCK6

VDD\_BUCK001

VDD\_BUCK023

VDD\_LDO6

VDD\_LDO2

VDD\_LDO1\_3

VDD\_LDO4\_13

VDD\_LDO5

VDD\_LDO7\_8

VDD\_LDO10

# ADI PMU

(AMUX, GPIO, BUTTONS, ADC, THERMISTORS, SYSTEM I/F, GND)

D

D

C

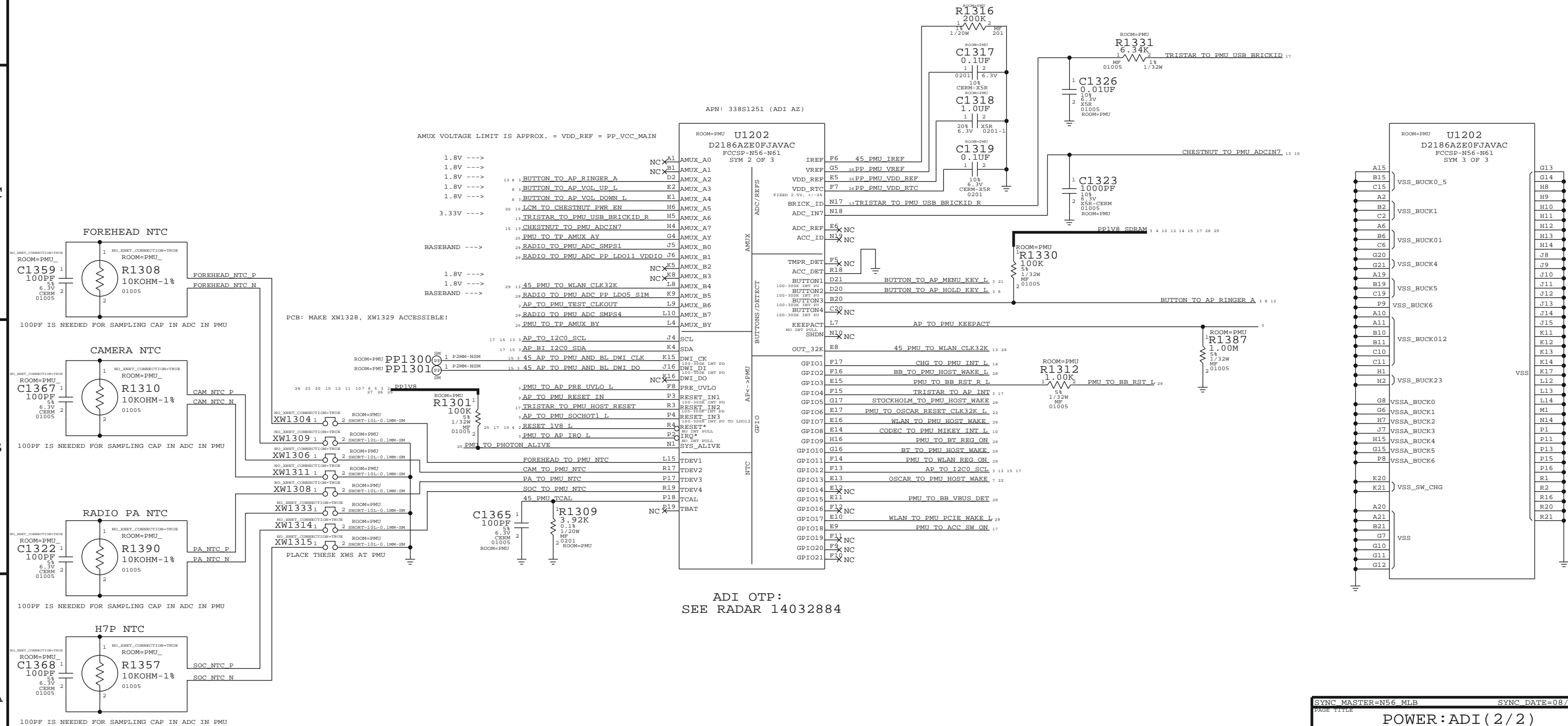
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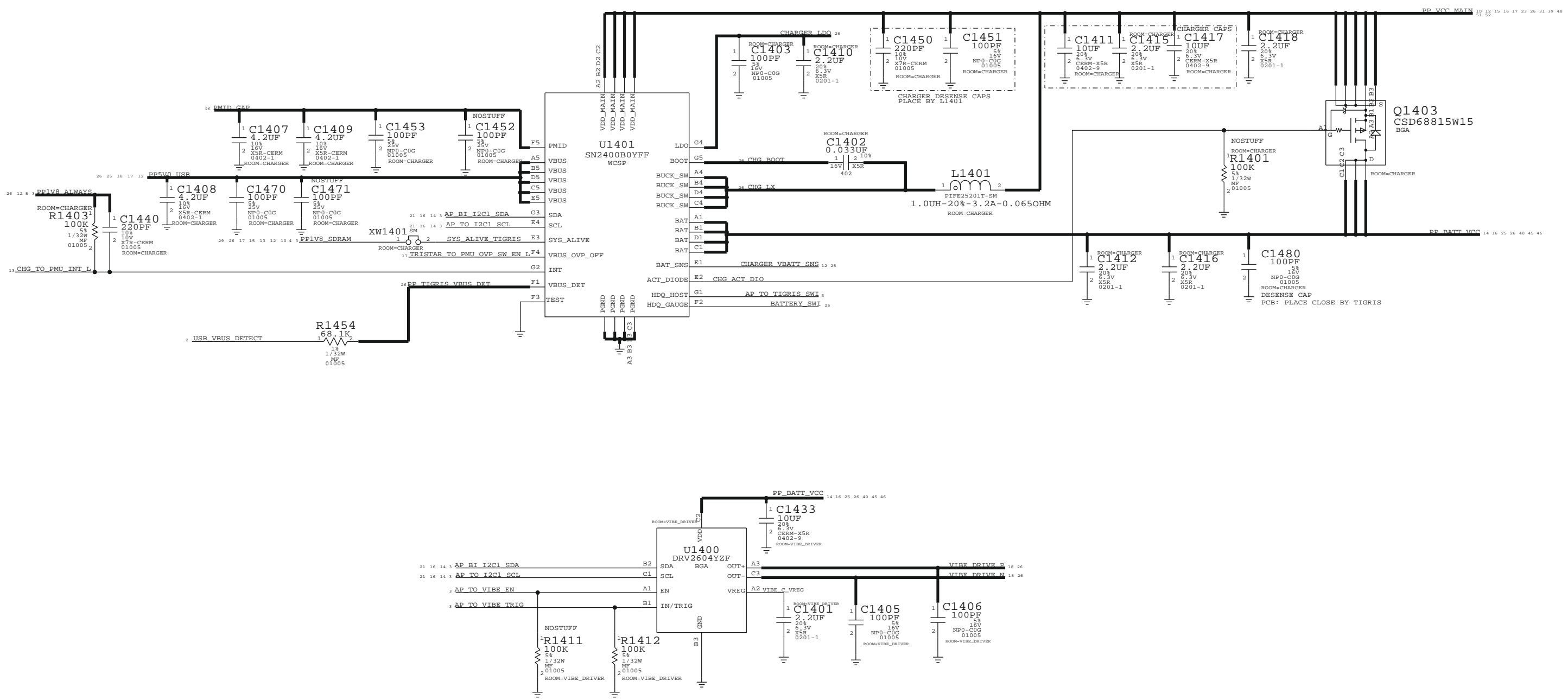
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ADI OTP:  
SEE RADAR 14032884

SYNC MASTER=N56 MLB		SYNC DATE=08/29/2013	
PAGE TITLE			
POWER:ADI ( 2 / 2 )			
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	REVISION	7.0.0	
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# TIGRIS CHARGER & VIBE DRIVER



PAGE TITLE		
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		PAGE
		14 OF 55
		SHEET
		14 OF 54

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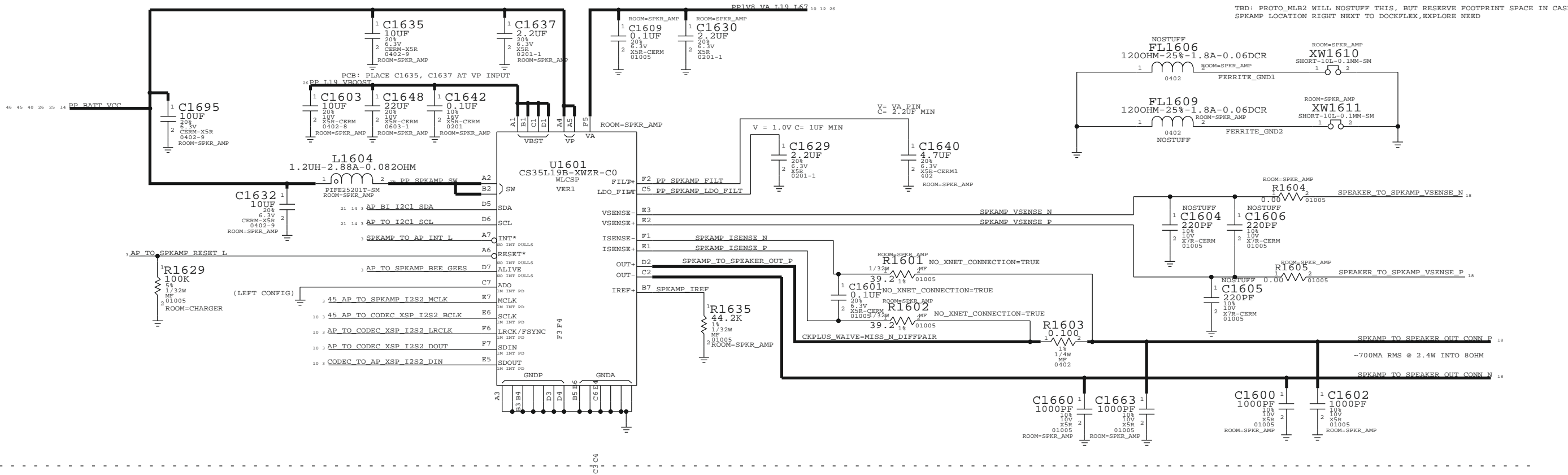
## B

A

# SPEAKER AMP, LED DRIVER

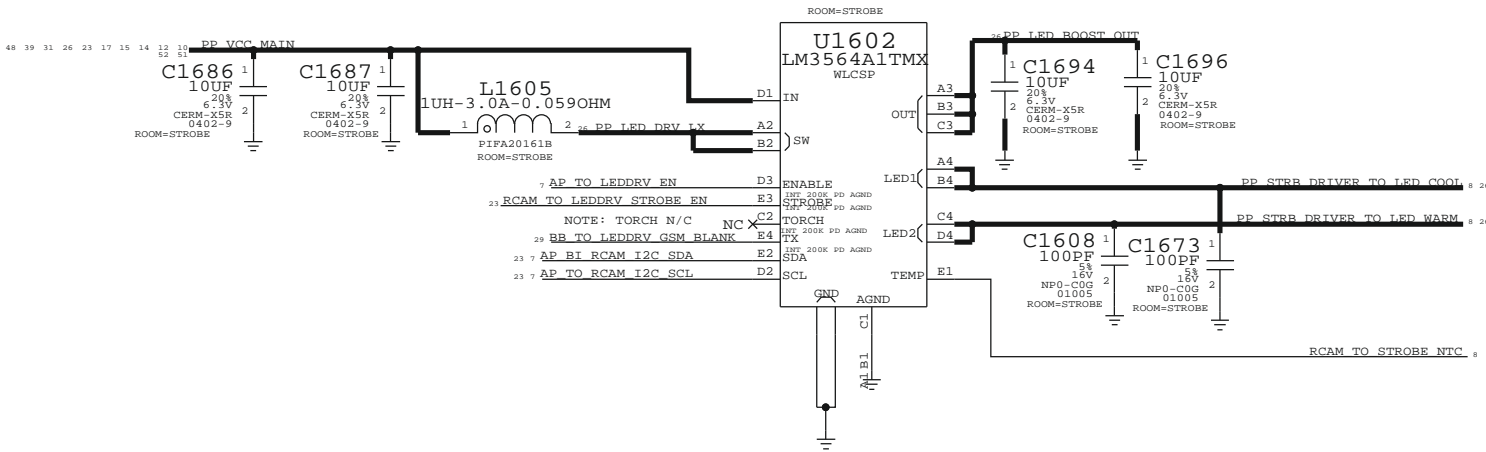
## SPEAKER AMP


I2C ADDRESS: 1000000X



## STROBE DRIVER

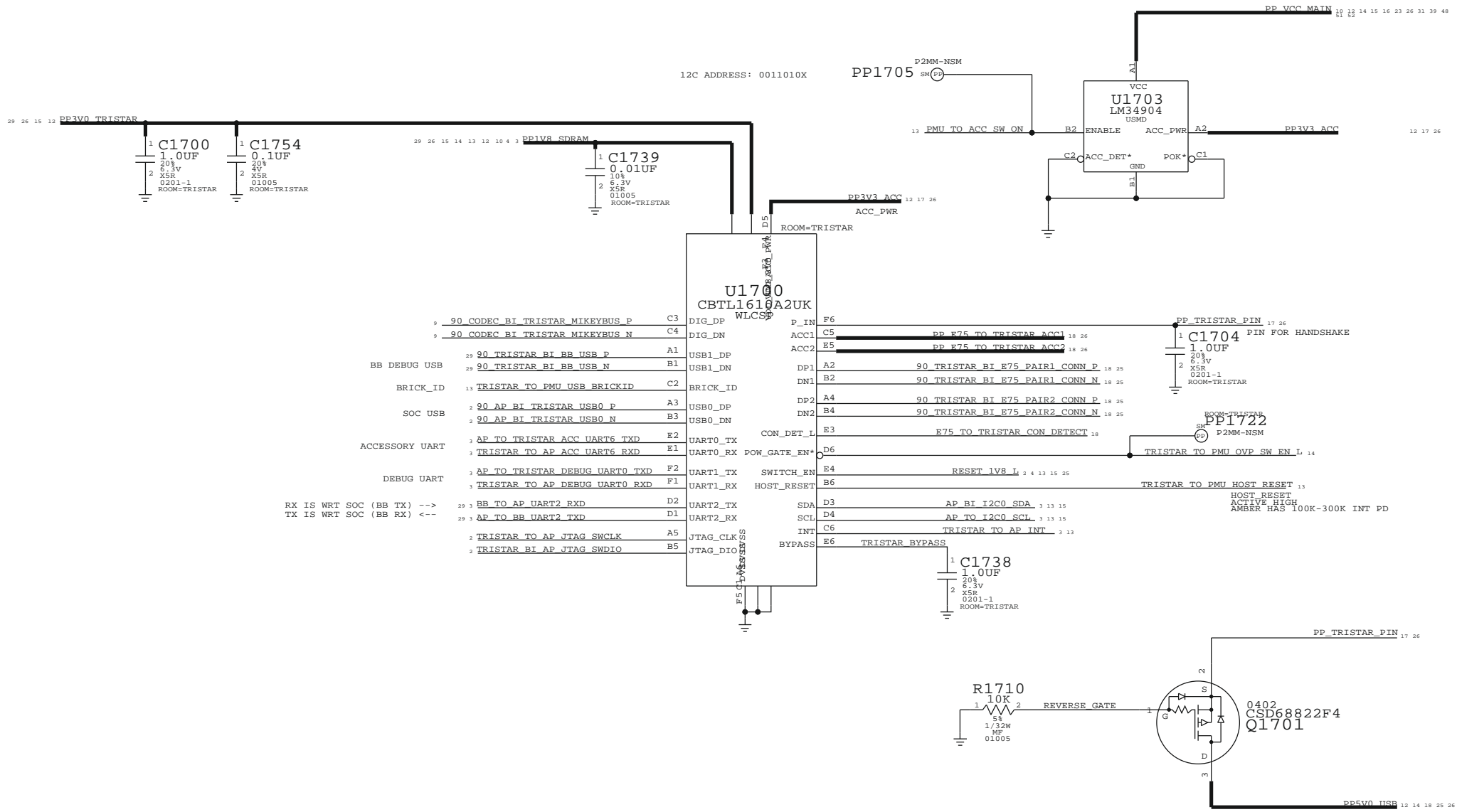
TI: APN 353S3899



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
AUDIO:SPKR AMP, STROBE			
 Apple Inc.	DRAWING NUMBER	051-9903	SIZE D
	REVISION	7.0.0	
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TRISTAR2



DOCKFLEX B2B (USB VBUS, SPEAKER, ANTENNA LAT SW CTRL, MIC1 (PRIMARY MIC), ACC DET/ID/PWR, E75 DIFFPAIRS)

D

LOWER MIC1  
(PRIMARY  
VOICE MIC)

C

HEADPHONE

B

CODEC TO  
HEADPHONE

A

ACCESSORY:  
VIBE  
DRIVE

SPEAKER:  
LEADS,  
VSENSE

TRISTAR

USB  
VBUS

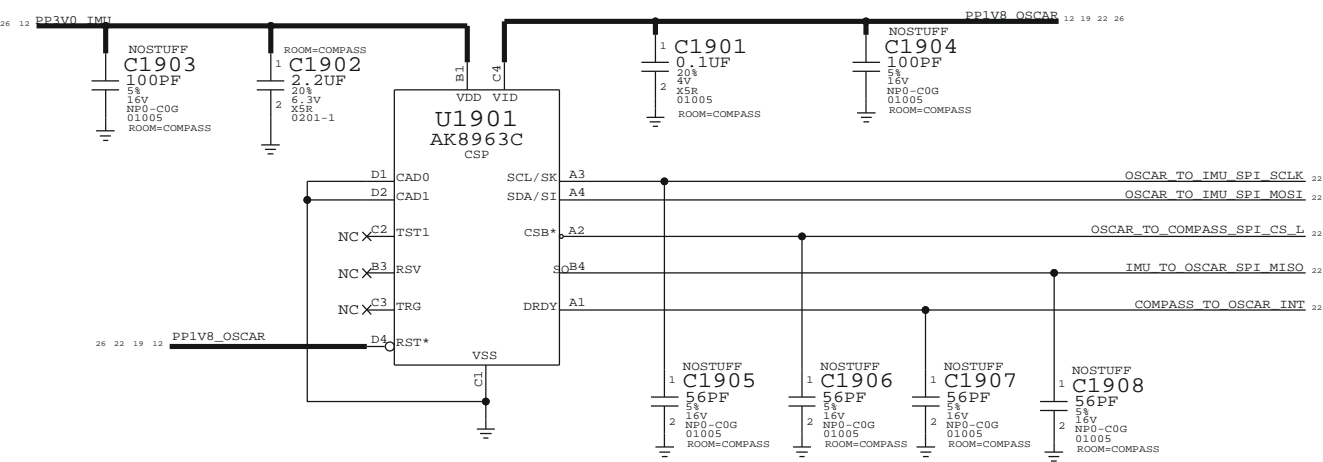
ANTENNA

MLB: 516S1281 (RCPT)  
ROOM=DOCK\_B2B J1817  
24-5859-036-201-829  
F-ST-SM

SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
IO:DOCK FLEX CONN		DRAWING NUMBER	051-9903
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COMPASS - AKM COMPASS IN POR LOCATION

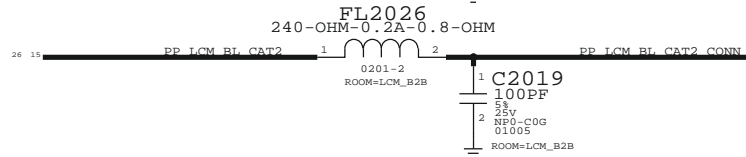
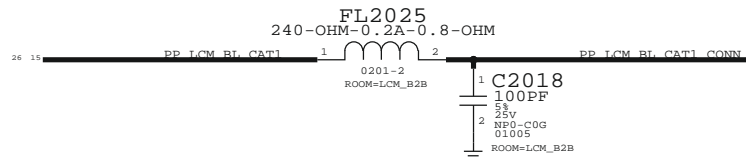
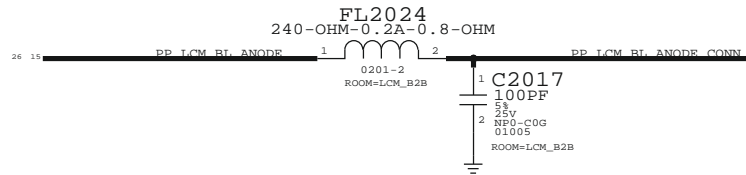
COMPASS CSP: 338S1014



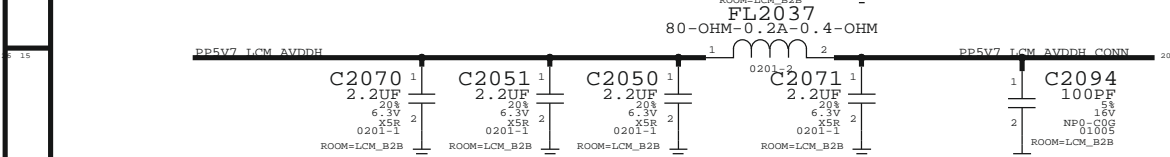
# LCD B2B

## Backlight

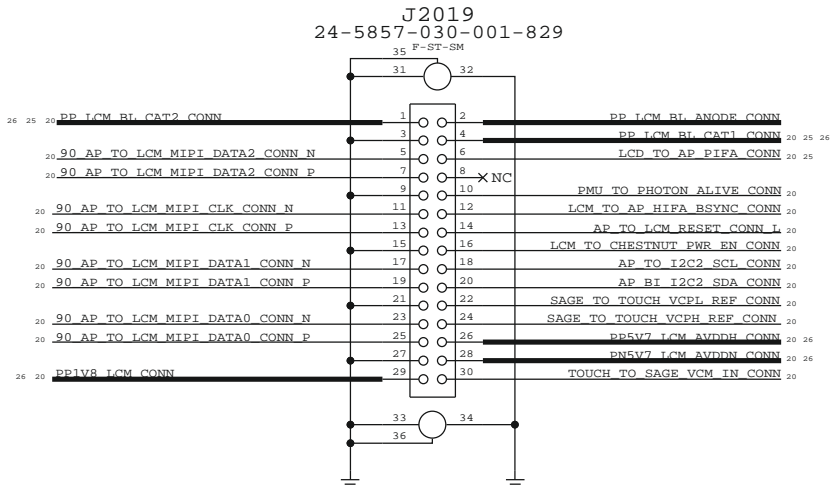
(N56 HAS A 2ND SET OF BL SIGNALS ON P. 19).



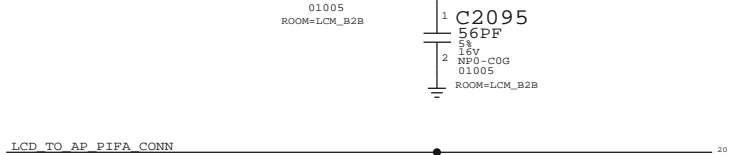
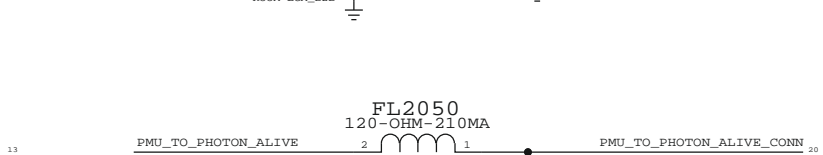
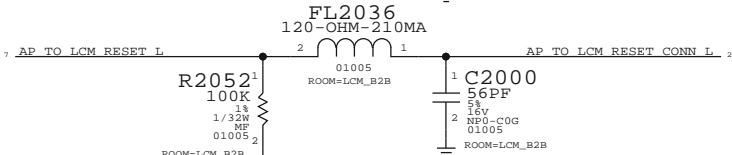
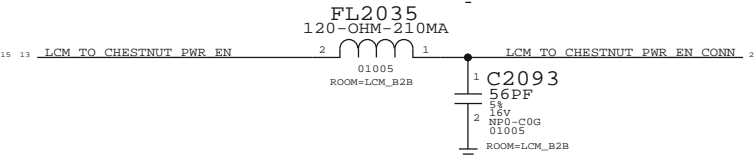
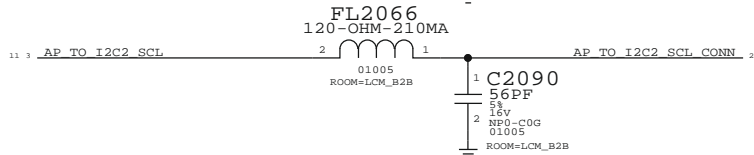
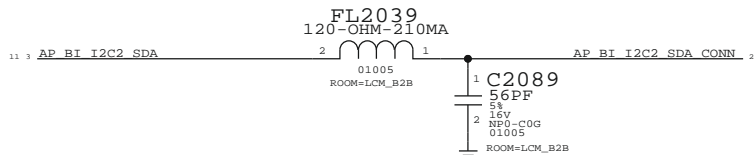
## LCM Supplies



THIS ONE ON MLB ---> 516S1164

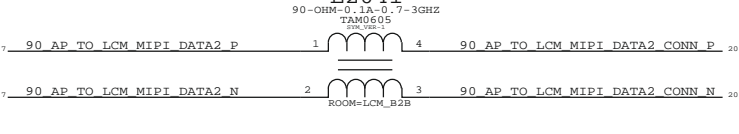
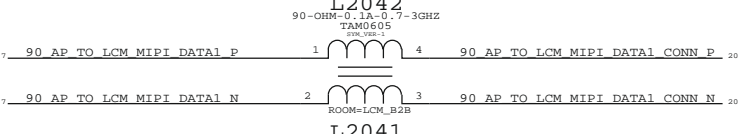
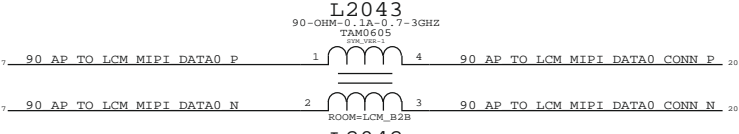
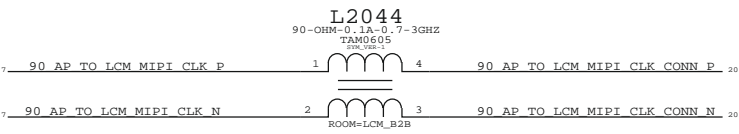


## Digital Interfaces

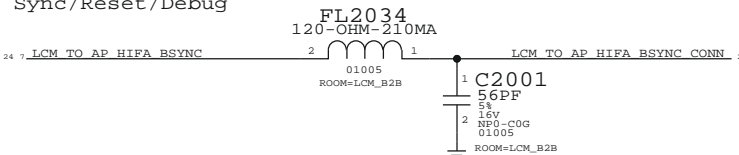


## MIPI Common Mode Chokes

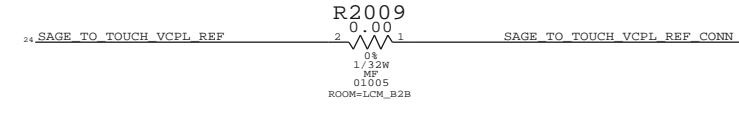
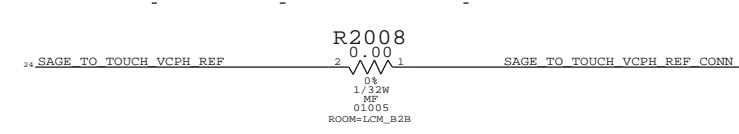
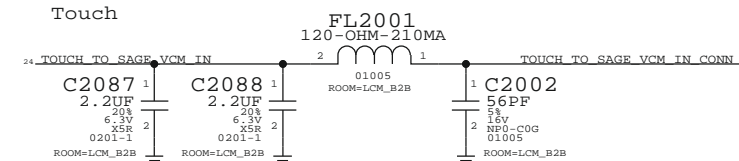
(N56 HAS A 4TH MIPI LANE ON P. 19).




## Sync/Reset/Debug



## Touch



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
DISPLAY:FLEX CONN			
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		SIZE	D
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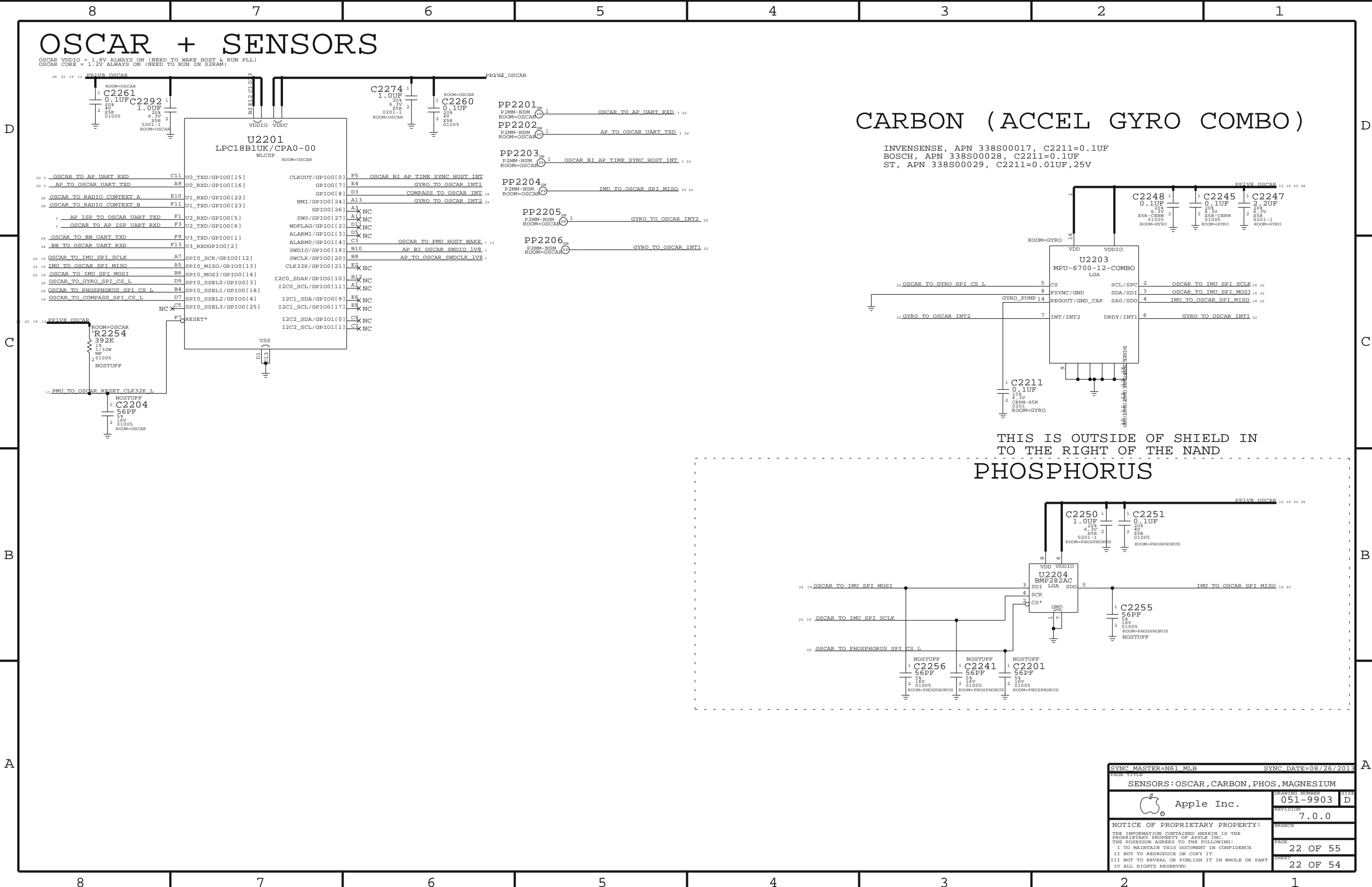
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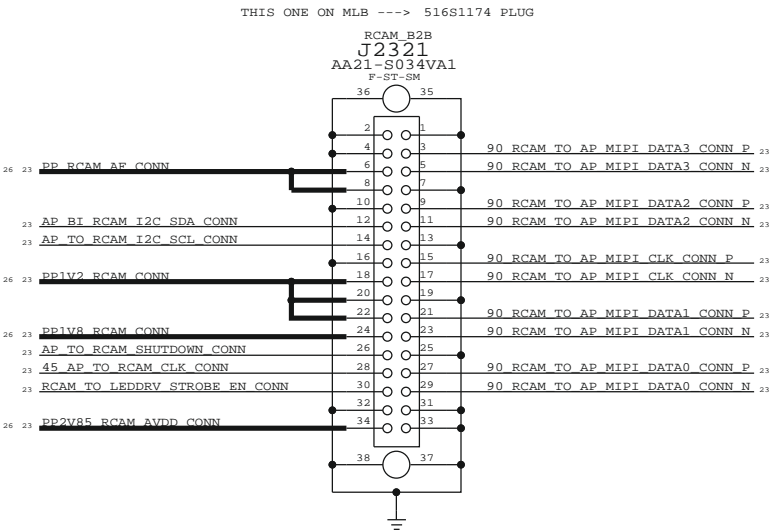
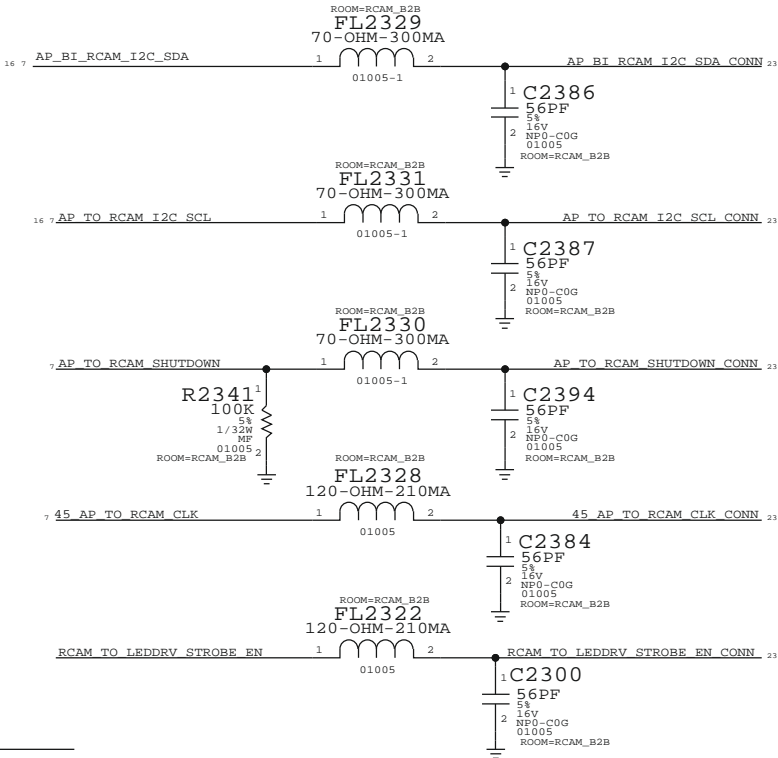
SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
SENSORS : OSCAR, CARBON, PHOS, MAGNESIUM			
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		PAGE	22 OF 55
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RCAM B2B (REAR CAMERA CONNECTOR)

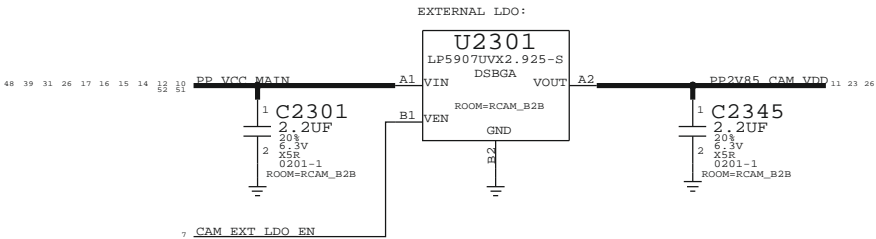
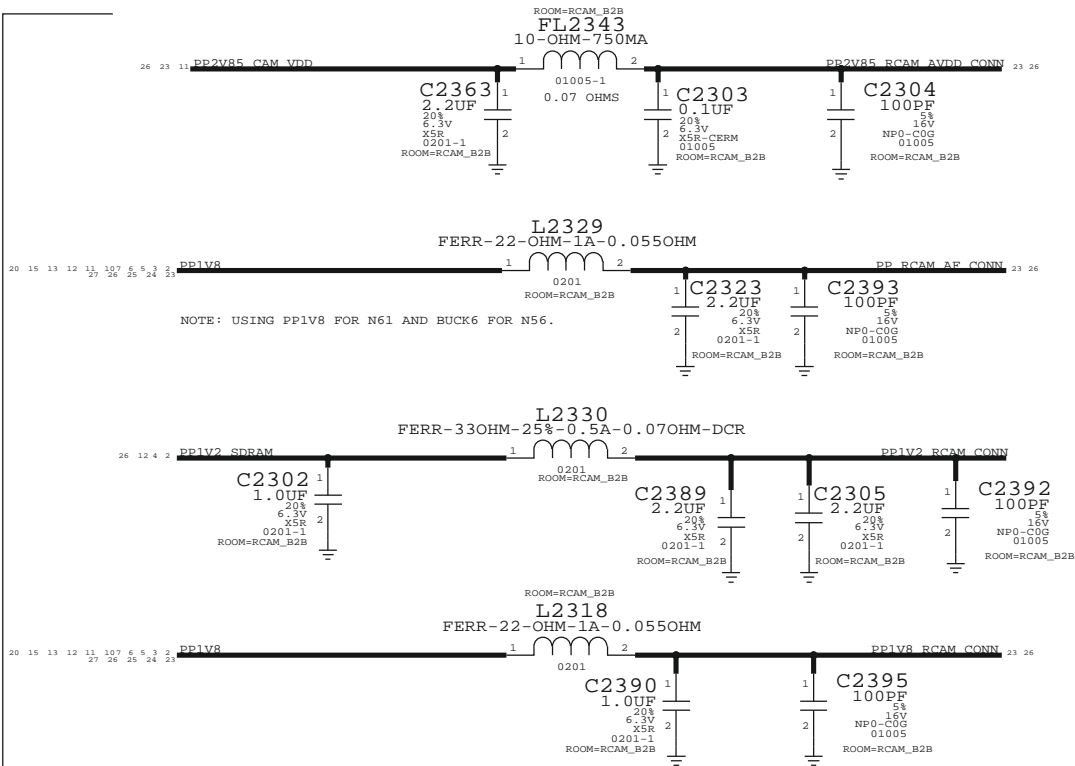
RCAM:  
4-LANE MIPI


RCAM:  
DIGITAL I/F  
(I2C, CTRL, CLK)

RCAM:  
POWER:  
(1.8V DVDD)  
(2.8V AVDD)  
(1.2V VCC)  
(1.8V/2V AF)



RCAM/FCAM AVDD RAIL EXT. LDO:



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
CAMERA:REAR FLEX CONN			
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# VOLTAGE PROPERTIES

VOLTAGE=3.3V	PP3V3 USB	3 12	VOLTAGE=5.0V	PP LED DRV LX	14
VOLTAGE=1.8V	PP1V8 VA I19 I67	10 12 16	VOLTAGE=5.0V	PP LED BOOST OUT	16
VOLTAGE=3.0V	PP3V0 TRISTAR	12 15 17 29			
VOLTAGE=3.0V	PP3V0 IMU	12 19	VOLTAGE=2.9V	PP2V9 LDO9	12
VOLTAGE=3.0V	PP3V0 NAND	6 12			
VOLTAGE=3.0V	PP3V3 ACC	12 17	VOLTAGE=1.8V	PP CODEC TO MIC1 BIAS CONN	18
VOLTAGE=3.0V	PP3V0 PROX ALS	11 12	VOLTAGE=4.6V	PP E75 TO TRISTAR ACC2	17 18
			VOLTAGE=4.6V	PP E75 TO TRISTAR ACC2 CONN	18 25
VOLTAGE=4.6V	PP VCC MAIN	10 12 14 15 16 17 23 31 39	VOLTAGE=1.8V	PP1V8 LCM CONN	20
VOLTAGE=1.0V	PP1V0	7 12	VOLTAGE=22.0V	PP LCM BL ANODE CONN	20 25
VOLTAGE=3.0V	PP3V0 PROX TRIED	11 12	VOLTAGE=-5.7V	PP5V7 LCM AVDDN CONN	20
VOLTAGE=1.8V	PP1V8 ALWAYS	1 5 12 14	VOLTAGE=5.7V	PP5V7 LCM AVDDH CONN	20
VOLTAGE=3.0V	PP3V0 MESA	12 21			
VOLTAGE=1.1V	PP CPU	4 12	VOLTAGE=1.8V	PP1V8 MESA	21
VOLTAGE=1.1V	PP GPU	4 12	VOLTAGE=16.5V	PP16V5 MESA CONN	21
VOLTAGE=1.2V	PP1V2 SDRAM	2 4 12 23	VOLTAGE=5.0V	PP TRISTAR PIN	17
VOLTAGE=1.8V	PP1V8 SDRAM	3 4 10 12 13 14 15 17 29			
VOLTAGE=1.8V	PP1V8	2 4 5 7 10 11 12 13 15 20 23			
VOLTAGE=1.8V	PP1V8 GRAPE	12 24			
VOLTAGE=1.8V	PP1V8 OSCAR	12 19 22			
VOLTAGE=1.2V	PP1V2 NAND VDDT	6			
VOLTAGE=1.8V	PP EXTMIC BIAS FILT IN	10	VOLTAGE=1.2V	PP1V2 RCAM CONN	23
VOLTAGE=1.8V	BOARD ID2	3 27	VOLTAGE=1.8V	PP1V8 RCAM CONN	23
VOLTAGE=1.2V	PP1V2	2 4 5 11 12			
VOLTAGE=5.0V	PP E75 TO TRISTAR ACC1 CONN	18 25	VOLTAGE=3.0V	PP2V85 CAM VDD	11 23
VOLTAGE=5.0V	PP E75 TO TRISTAR ACC1	17 18	VOLTAGE=1.8V	PP2V85 RCAM AVDD CONN	23
VOLTAGE=22.0V	PP LCM BL ANODE	15 20	VOLTAGE=1.8V	PP CUMULUS VDDCORE	24
VOLTAGE=0.2V	PP LCM BL CAT2	15 20	VOLTAGE=1.2V	PP CUMULUS VDDANA	24
VOLTAGE=0.2V	PP LCM BL CAT1	15 20	VOLTAGE=13.5V	PP SAGE TO TOUCH VCPH CONN	24
VOLTAGE=0.2V	PP LCM BL CAT2 CONN	20 25	VOLTAGE=-12V	PP SAGE TO TOUCH VCPH CONN	24
VOLTAGE=0.2V	PP LCM BL CAT1 CONN	20 25	VOLTAGE=13.5V	PP SAGE TO TOUCH VCPH	24
			VOLTAGE=-12V	PP SAGE TO TOUCH VCPH	24
VOLTAGE=-5.7V	PP5V7 SAGE AVDDN	15 20 24			
VOLTAGE=1.2V	PP1V2 OSCAR	12 22	VOLTAGE=-12V	PP SAGE VCPH F	24
VOLTAGE=3.0V	PP3V0 MESA CONN	21	VOLTAGE=5.7V	PP SAGE LX	24
VOLTAGE=6V	PP6V0 LCM BOOST	15	VOLTAGE=17.0V	PP SAGE LX	24
VOLTAGE=5.0V	PP_STRB_DRIVER_TO_LED_WARM	8 16			
VOLTAGE=5.0V	PP_STRB_DRIVER_TO_LED_COOL	8 16			
			VOLTAGE=1.8V	PP PMU VREF	13
			VOLTAGE=14V	PP_SAGE_VBST_OUTH	24
VOLTAGE=1.8V	PP CODEC TO MIC1 BIAS	10 18	VOLTAGE=5.0V	PP TIGRIS VBUS_DET	14
VOLTAGE=1.8V	PP EXTMIC BIAS IN	10			
VOLTAGE=1.8V	PP EXTMIC BIAS FILT	10	PP1V8_PLL		
VOLTAGE=1.8V	PP CODEC TO_FRONTMIC3_BIAS	10 11	PP_MIPIOD_VREG		
VOLTAGE=1.8V	PP_CODEC_TO_REARMIC2_BIAS	8 10	BOARD_ID0		
VOLTAGE=1.8V	PP CODEC FILT+	10	VOLTAGE=2.5V	PP PMU_VDD_REF	13
VOLTAGE=2.2V	PP CODEC_SPKR_VO	10	VOLTAGE=1.8V	PP EXTMIC_BIAS	10
VOLTAGE=2.5V	PP CODEC_VCPHFLT+	10	VOLTAGE=1.8V	PP1V8_XTAL	2
VOLTAGE=2.5V	PP CODEC_VCPHFLT+	10	VOLTAGE=1.8V	PP PMU_VDD_RTC	13
VOLTAGE=0.2V	PP CODEC_VHP_FLVX	10			
VOLTAGE=2.5V	PP CODEC_VHP_FLVX	10	VOLTAGE=4.6V	PP_BATT_VCC	14 16 25 40 45 46
VOLTAGE=1.8V	PP1V8_RCAM_CONN	11	VOLTAGE=1.8V	PP1V8_MESA_CONN	21
VOLTAGE=3.0V	PP2V85_RCAM_AVDD_CONN	11	VOLTAGE=3.0V	PP3V0_PROX_CONN	11
VOLTAGE=1.8V	PP CODEC TO_FRONTMIC3_BIAS_CONN	11			
VOLTAGE=3.0V	PP3V0_ALS_CONN	11	VOLTAGE=1.0V	PP0V95_FIXED_SOC	4 7 12
VOLTAGE=1.2V	PP1V2_RCAM_VDDIO_CONN	11	VOLTAGE=1.0V	PP0V95_FIXED_SOC_RCIE	7
VOLTAGE=5.0V	PP5V0_USB	12 14 17 18 25	VOLTAGE=1.2V	PP1V2_PLL	2
VOLTAGE=5.0V	PP5V0_USB_TO_PMU	12	VOLTAGE=1.0V	PP_BUCK5_LX1	12
VOLTAGE=4.6V	PP_BUCK5_LX	12	VOLTAGE=1.0V	PP_VAR_SOC	5 12
VOLTAGE=4.6V	PP_BUCK3_LX	12			
VOLTAGE=4.6V	PP_BUCK4_LX	12	VOLTAGE=5.0V	PPMID_CAP	14
VOLTAGE=4.6V	PP_BUCK2_LX	12	VOLTAGE=5.0V	CHARGER_LDO	14
VOLTAGE=4.6V	PP_BUCK1_LX1	12	VOLTAGE=4.6V	CHG_BOOT	14
VOLTAGE=4.6V	PP_BUCK1_LX0	12	VOLTAGE=4.6V	CHG_LX	14
VOLTAGE=4.6V	PP_BUCK0_LX3	12			
VOLTAGE=4.6V	PP_BUCK0_LX2	12	VOLTAGE=3.0V	VIBR_DRIVE_P	14 18
VOLTAGE=4.6V	PP_BUCK0_LX1	12	VOLTAGE=3.0V	VIBR_DRIVE_N	14 18
VOLTAGE=4.6V	PP_BUCK0_LX0	12			
VOLTAGE=6.0V	PP_CHESTNUT_LXP	15	VOLTAGE=1.8V	PP_RCAM_AE_CONN	23
VOLTAGE=6.0V	PP_CHESTNUT_CP	15	VOLTAGE=-14.0V	PP_SAGE_VBST_OUTH	24
VOLTAGE=6.0V	PP_CHESTNUT_CN	15	VOLTAGE=-12.0V	PP_SAGE_TO_TOUCH_VCPH_FILT	24
VOLTAGE=5.7V	PP5V7_SAGE_AVDDH	16 24			
VOLTAGE=5.7V	PP5V7_LCM_AVDDH	15 20	VOLTAGE=2.7V	PP_BB_VDD_2V7_CONN	18
VOLTAGE=5.1V	PP5V1_GRAPE_VDDH	15 24			
VOLTAGE=22.0V	PP_WLED_LX	15			
VOLTAGE=18.0V	PP18V0_MESA_SW	15			
VOLTAGE=17.0V	PP17V0_MOUNTAIN_ID0IN	15			
VOLTAGE=16.5V	PP16V5_MESA	15 21 25			
VOLTAGE=8.0V	PP_SPKAMP_SW	16			
VOLTAGE=8.0V	PP_I19_VBOOST	16			
VOLTAGE=1.8V	PP_SPKAMP_FILT	16			
VOLTAGE=1.8V	PP_SPKAMP_LDO_FILT	16			

PAGE TITLE		
SYSTEM:VOLTAGE PROPERTIES		
	DRAWING NUMBER	051-9903
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8	7	6	5	4	3	2	1
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D

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B

A

D

C

B

A

1111 PROTOMLB1

1110 PROTOMLB2

```

1101      PROTO1
1100      PROTO2

```

1100	PROT02
1011	EVT

1010 EVT SPLIT CARBON DOE  
1001 CARBON DIOXIDE

```

1001 CARRIER BUILD <--- SELECTED
1000 DVT

```

1000 251

FLOAT=LOW, PULLUP=HIGH

00100 N56, T133 MLB

00101	N56 DEV
00110	FI-11 N61

00110 F101 N61 MLB <--- SELECTED

```
BOOT_CONFIG[2:0]={GPIO28, GPIO25, GPIO18}
```

FLOAT=LOW, PULLUP=HIGH

```
000      SPI0
001      SPI1
```

```
001    SPI0 TEST MODE
010    NAND
```

```

010      NAND      (---- SELECTED
011      NAND TEST MODE

```

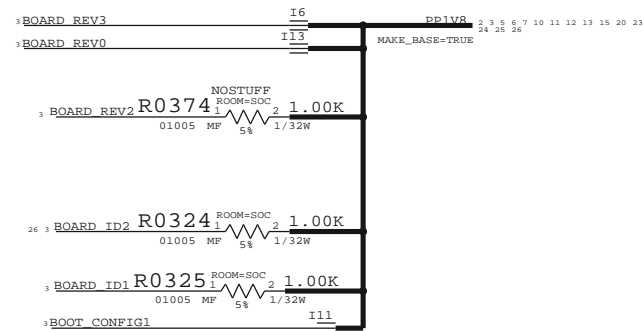
100	NVME
101	NVME

```


101 NVME TEST MODE
111 FAST SPI

```

111 FAS1 DE1



8	7	6	5	4	3	2	1
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SYSTEM:N61 SPECIFIC	
 Apple Inc.	DRAWING NUMBER
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	SHEET
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# RADIO\_MLB HIERARCHICAL SYMBOL

## POWER

VCC\_MAIN, VBAT GOES TO RADIO\_MLB DIRECTLY  
CHECK ALL PAGES IN RF SIDE!

## CELLULAR HOUSE KEEPING

3	AP_TO_RADIO_ON_L	MAKE_BASE+TRUE	I325	RADIO_ON_L	30 32
3	BB_TO_AP_RESET_DET_L	MAKE_BASE+TRUE	I324	BB_RESET_DET_L	30 35
13	PMU_TO_BB_RST_L	MAKE_BASE+TRUE	I326	RF_PMIC_RESET_L	30 32
3	AP_TO_BB_RST_L	MAKE_BASE+TRUE	I327	BB_RST_L	30 32
3	AP_TO_BB_WAKE_MODEM	MAKE_BASE+TRUE	I329	AP_WAKE_MODEM	35
13	BB_TO_PMU_HOST_WAKE_L	MAKE_BASE+TRUE	I328	BB_WAKE_HOST_L	30 35
3	BB_TO_AP_IPC_GPIO	MAKE_BASE+TRUE	I331	BB_IPC_GPIO	35
16	BB_TO_LEDDR_V_GSM_BLANK	MAKE_BASE+TRUE	I330	GSM_TXBURST_IND	35
3	BB_TO_AP_GPS_SYNC	MAKE_BASE+TRUE	I332	BB_GPS_SYNC	30 35

## HSIC IPC

2	50_AP_BI_BB_HSIC1_DATA	MAKE_BASE+TRUE	I368	50_BB_HSIC_DATA	30 34
3	50_AP_BI_BB_HSIC1_STB	MAKE_BASE+TRUE	I369	50_BB_HSIC_STROBE	30 34
3	AP_TO_BB_HOST_RDY	MAKE_BASE+TRUE	I371	BB_HOST_RDY	30 35
3	BB_TO_AP_DEVICE_RDY	MAKE_BASE+TRUE	I370	BB_DEVICE_RDY	30 35
3	BB_TO_AP_IPC_GPIO1	MAKE_BASE+TRUE	I372	BB_IPC_GPIO1	35

## UART IPC

3	AP_TO_BB_UART2_RTS_L	MAKE_BASE+TRUE	I373	BB_UART_CTS_L	30 35
3	BB_TO_AP_UART2_CTS_L	MAKE_BASE+TRUE	I374	BB_UART_RTS_L	30 35
17 3	AP_TO_BB_UART2_TXD	MAKE_BASE+TRUE	I374	BB_UART_RXD	30 35
17 3	BB_TO_AP_UART2_RXD	MAKE_BASE+TRUE	I375	BB_UART_TXD	30 35

## AUDIO I2S

3	45_AP_TO_BB_I2S3_BCLK	MAKE_BASE+TRUE	I377	BB_I2S_CLK	35
3	AP_TO_BB_I2S3_DOUT	MAKE_BASE+TRUE	I378	BB_I2S_RXD	30 35
3	BB_TO_AP_I2S3_DIN	MAKE_BASE+TRUE	I379	BB_I2S_TXD	30 35
3	AP_TO_BB_I2S3_LRCLK	MAKE_BASE+TRUE	I380	BB_I2S_WS	30 35

## OSCAR UART

22	OSCAR_TO_BB_UART_TXD	MAKE_BASE+TRUE	I382	BB_OTHER_RXD	30 35
22	BB_TO_OSCAR_UART_RXD	MAKE_BASE+TRUE	I381	BB_OTHER_TXD	30 35

## BB DEBUG INTERFACES

3	AP_TO_BB_COREDUMP	MAKE_BASE+TRUE	I384	BB_CORE_DUMP	30 35
13	PMU_TO_BB_VBUS_DET	MAKE_BASE+TRUE	I387	BB_USB_VBUS	30 34
17	90_TRISTAR_BI_BB_USB_N	MAKE_BASE+TRUE	I385	90_BB_USB_N	30 34
3	90_TRISTAR_BI_BB_USB_P	MAKE_BASE+TRUE	I386	90_BB_USB_P	30 34

## RADIO ANTENNA CONTROL

18	PP_BB_VDD_2V7	MAKE_BASE+TRUE	I389	PP_LDO14_RFSW	31 41 42
18	BB_GPIO0	MAKE_BASE+TRUE	I390	BB_LAT_GPIO0	35
18	BB_GPIO2	MAKE_BASE+TRUE	I391	BB_LAT_GPIO2	35
18	BB_GPIO3	MAKE_BASE+TRUE	I392	BB_LAT_GPIO3	35
18	BB_GPIO4	MAKE_BASE+TRUE	I394	BB_LAT_GPIO4	35

## FCT TESTING

13	RADIO_TO_PMU_ADC_SMPS1	MAKE_BASE+TRUE	I395	ADC_SMPS1	30
13	RADIO_TO_PMU_ADC_PP_LDO11_VDDIO	MAKE_BASE+TRUE	I396	ADC_PP_LDO11	30
13	RADIO_TO_PMU_ADC_PP_LDO5_SIM	MAKE_BASE+TRUE	I398	ADC_PP_LDO5	30
13	RADIO_TO_PMU_ADC_SMPS4	MAKE_BASE+TRUE	I397	ADC_SMPS4	30

## UPPER RADIO ANTENNA CONTROL

25	50_AP_WIFI_5G_CONN_ANT	MAKE_BASE+TRUE	I410	50_WIFI_5G_CONN_ANT	50
25	50_AP_UAT_FEED	MAKE_BASE+TRUE	I409	50_UPPER_ANT_FEED	50
	UAT_ANT_GND	MAKE_BASE+TRUE	I411	ANT_GND	50
29 26 17 15 12	PP3V0_TRISTAR	MAKE_BASE+TRUE	I404	PAC_VDD_3V0	53
25 8	NORTH_AC_GND_SCREW	MAKE_BASE+TRUE	I412	NORTH_ANT_GND	50

## POWER

26 17 15 14 13 12 10 4 3	PP1V8_SDRAM	MAKE_BASE+TRUE	I314	PP_WL_BT_VDDIO_AP	51
		MAKE_BASE+TRUE	I315	PP_STOCKHOLM_IVR_S2P	52 54
		MAKE_BASE+TRUE	I407	REFE_VIO_S2P	53

## WLAN/BT HOUSE KEEPING

13	45_PMU_TO_WLAN_CLK32K	MAKE_BASE+TRUE	I316	CLK32K_AP	30 51
13	PMU_TO_WLAN_REG_ON	MAKE_BASE+TRUE	I317	WLAN_REG_ON	30 51
13	WLAN_TO_PMU_HOST_WAKE	MAKE_BASE+TRUE	I318	HOST_WAKE_WLAN	30 51
13	PMU_TO_BT_REG_ON	MAKE_BASE+TRUE	I319	BT_REG_ON	30 51
13	AP_TO_BT_WAKE	MAKE_BASE+TRUE	I320	WAKE_BT	30 51
13	BT_TO_PMU_HOST_WAKE	MAKE_BASE+TRUE	I321	HOST_WAKE_BT	51

3	AP_TO_WLAN_JTAG_SWCLK	MAKE_BASE+TRUE	I333	WLAN_JTAG_SWCLK	30 51
3	AP_TO_WLAN_JTAG_SWDIO	MAKE_BASE+TRUE	I334	WLAN_JTAG_SWDIO	30 51
13	WLAN_TO_PMU_PCIE_WAKE_L	MAKE_BASE+TRUE	I335	WLAN_PCIE_WAKE_L	30 51
3	AP_TO_WLAN_DEVICE_WAKE	MAKE_BASE+TRUE	I336	PCIE_DEV_WAKE	30 51
3	90_WLAN_TO_AP_PCIE1_RXDP_P	MAKE_BASE+TRUE	I337	90_WLAN_PCIE_TDP	30 51
3	90_WLAN_TO_AP_PCIE1_RXDP_N	MAKE_BASE+TRUE	I338	90_WLAN_PCIE_TDN	30 51
3	90_AP_TO_WLAN_PCIE1_TXDP_P	MAKE_BASE+TRUE	I338	90_WLAN_PCIE_RDP	30 51
3	90_AP_TO_WLAN_PCIE1_TXDP_N	MAKE_BASE+TRUE	I339	90_WLAN_PCIE_RDN	30 51
3	90_AP_TO_WLAN_PCIE1_REFCLK1_P	MAKE_BASE+TRUE	I342	90_WLAN_PCIE_REFCLK_P	51
3	90_AP_TO_WLAN_PCIE1_REFCLK1_N	MAKE_BASE+TRUE	I341	90_WLAN_PCIE_REFCLK_N	51
3	WLAN_TO_AP_PCIE1_CLKREQ_L	MAKE_BASE+TRUE	I344	WLAN_PCIE_CLKREQ_L	30 51
3	AP_TO_WLAN_PCIE1_RST_L	MAKE_BASE+TRUE	I343	WLAN_PCIE_PERST_L	30 51

## WLAN HSIC IPC

3	WLAN_TO_AP_UART4_RXD	MAKE_BASE+TRUE	I345	WLAN_UART_TXD	30 51
3	AP_TO_WLAN_UART4_TXD	MAKE_BASE+TRUE	I346	WLAN_UART_RXD	30 51
3	WLAN_TO_AP_UART4_CTS_L	MAKE_BASE+TRUE	I347	WLAN_UART_RTS_L	30 51
3	AP_TO_WLAN_UART4_RTS_L	MAKE_BASE+TRUE	I346	WLAN_UART_CTS_L	30 51

## BT UART IPC

3	AP_TO_BT_UART1_RTS_L	MAKE_BASE+TRUE	I349	BT_UART_CTS_L	51
3	BT_TO_AP_UART1_CTS_L	MAKE_BASE+TRUE	I352	BT_UART_RTS_L	51
3	AP_TO_BT_UART1_TXD	MAKE_BASE+TRUE	I351	BT_UART_RXD	30 51
3	BT_TO_AP_UART1_RXD	MAKE_BASE+TRUE	I350	BT_UART_TXD	30 51

## BT AUDIO PCM


3	45_AP_TO_BT_I2S1_BCLK	MAKE_BASE+TRUE	I354	BT_PCM_CLK	51
3	AP_TO_BT_I2S1_DOUT	MAKE_BASE+TRUE	I353	BT_PCM_IN	51
3	BT_TO_AP_I2S1_DIN	MAKE_BASE+TRUE	I355	BT_PCM_OUT	51
3	AP_TO_BT_I2S1_LRCLK	MAKE_BASE+TRUE	I356	BT_PCM_SYNC	51

## OSCAR STATES

22	OSCAR_TO_RADIO_CONTEXT_A	MAKE_BASE+TRUE	I358	OSCAR_CONTEXT_A	51
22	OSCAR_TO_RADIO_CONTEXT_B	MAKE_BASE+TRUE	I357	OSCAR_CONTEXT_B	51

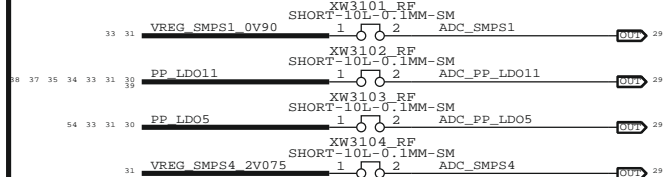
## STOCKHOLM


3	STOCKHOLM_TO_AP_UART3_CTS_L	MAKE_BASE+TRUE	I359	STOCKHOLM_RTS_L	30 52
3	AP_TO_STOCKHOLM_UART3_RTS_L	MAKE_BASE+TRUE	I360	STOCKHOLM_CTS_L	30 52
3	STOCKHOLM_TO_AP_UART3_RXD	MAKE_BASE+TRUE	I361	STOCKHOLM_UART_TXD	30 52
3	AP_TO_STOCKHOLM_UART3_TXD	MAKE_BASE+TRUE	I362	STOCKHOLM_UART_RXD	30 52
3	AP_TO_STOCKHOLM_DWLD_REQ	MAKE_BASE+TRUE	I362	STOCKHOLM_FW_DWLD_REQ	52
13	STOCKHOLM_TO_PMU_HOST_WAKE	MAKE_BASE+TRUE	I364	STOCKHOLM_HOST_WAKE	30 52
3	AP_TO_STOCKHOLM_EN	MAKE_BASE+TRUE	I365	STOCKHOLM_ENABLE	52
29 26 17 15 12	PP3V0_TRISTAR	MAKE_BASE+TRUE	I366	STOCKHOLM_VDD_MUX_3V0	54
3	AP_TO_STOCKHOLM_SIM_SEL	MAKE_BASE+TRUE	I367	STOCKHOLM_SIM_SEL	54
25	AP_TO_STOCKHOLM_ANT	MAKE_BASE+TRUE	I406	STOCKHOLM_ANT	52

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AP INTERFACE & DEBUG CONNECTORS			
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		SHEET	30 OF 54

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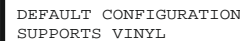
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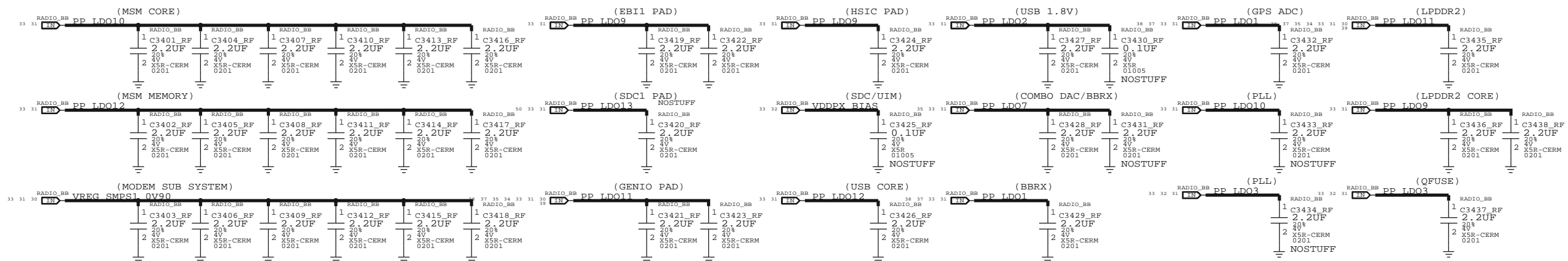
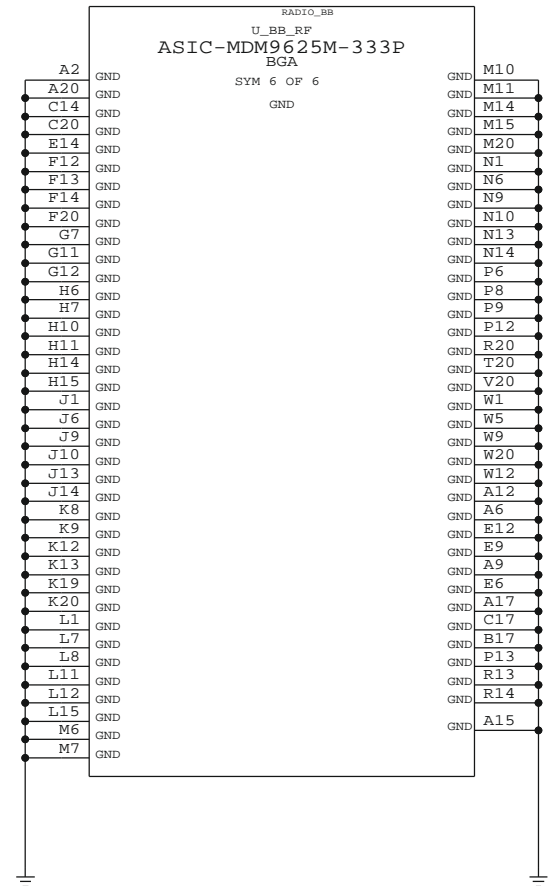
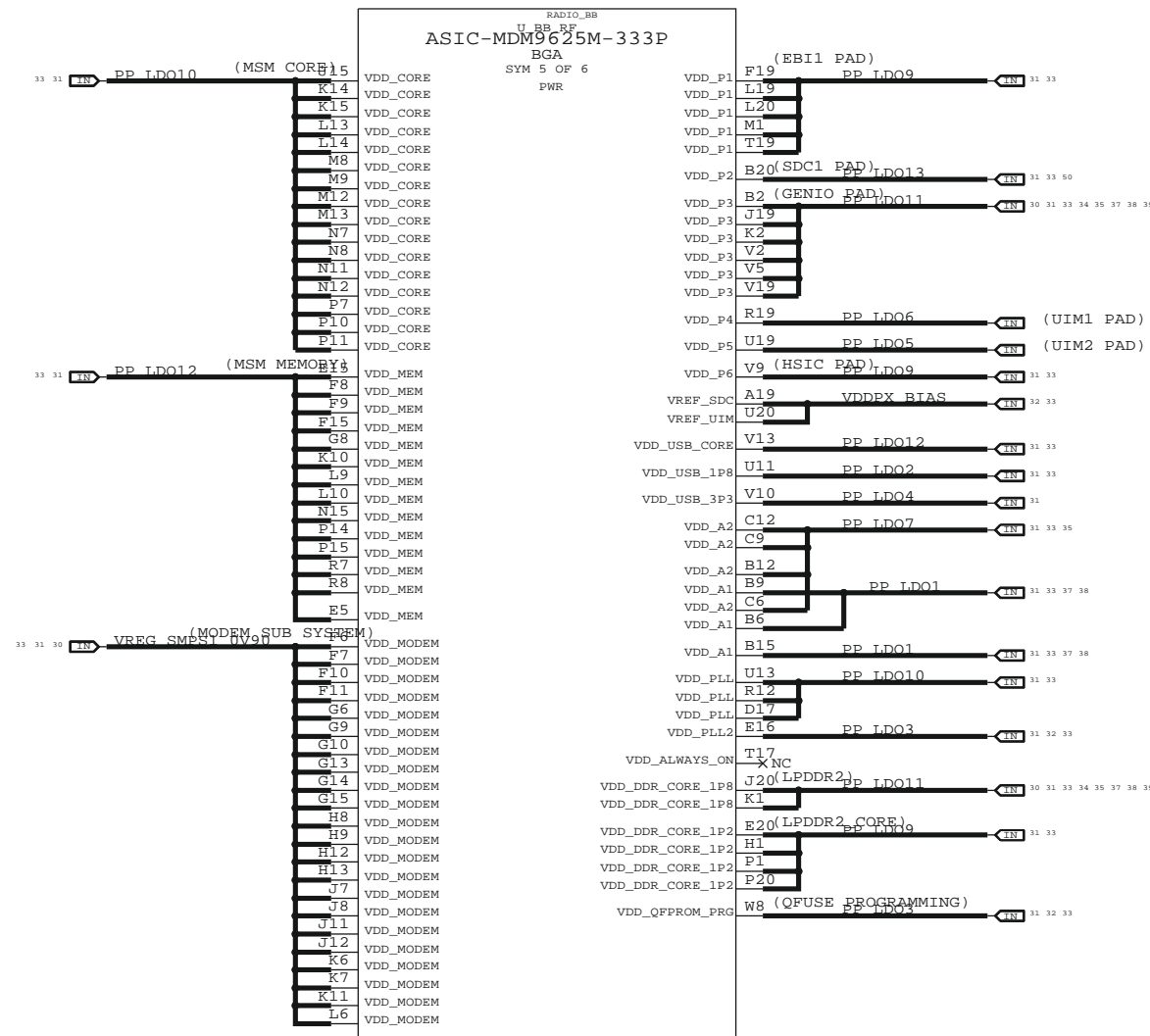
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BOARD_ID	REVISION
0.00V	N61 PROTO_MLB1
0.50V	N61 DEV3
0.70V	N61 DEV4
0.90V	N61 PROTO_MLB2
1.10V	N61/N56 PROTO1
1.30V	N61/N56 PROTO2
1.40V	N61/N56 EVT1
1.50V	N61/N56 EVT2 (CARRIER)
1.60V	N61/N56 DVT
1.70V	N61/N56 PVT



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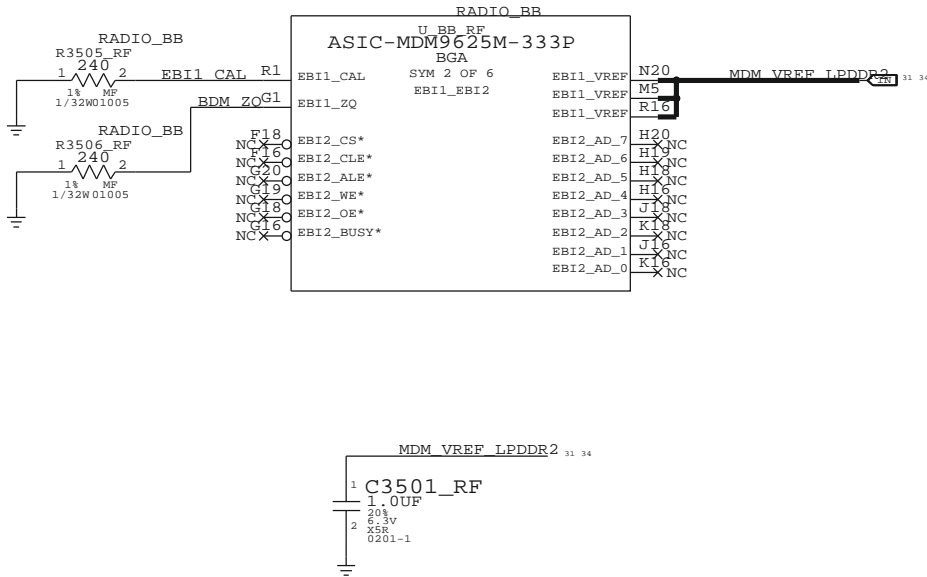
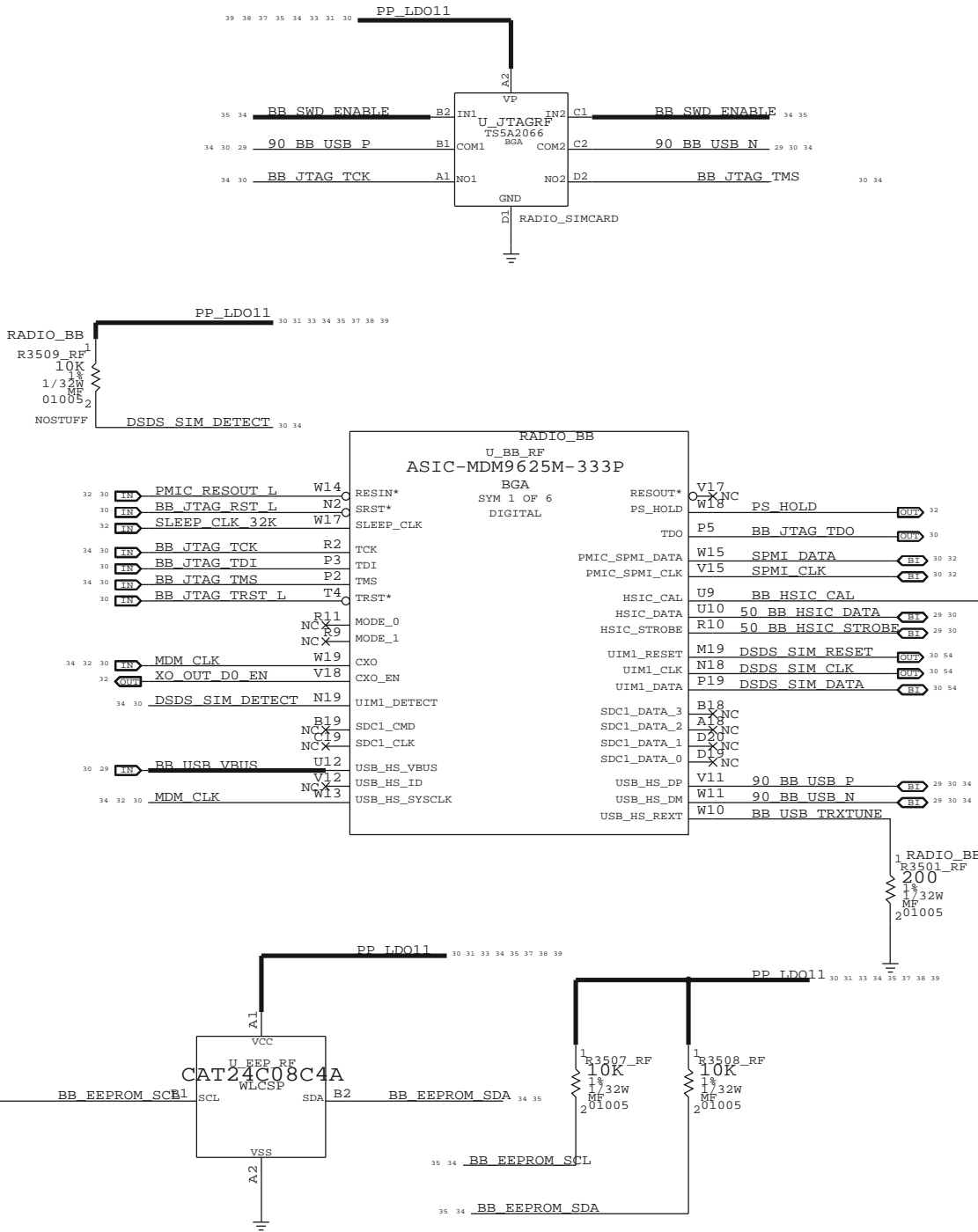
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L500
U502



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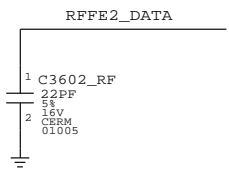
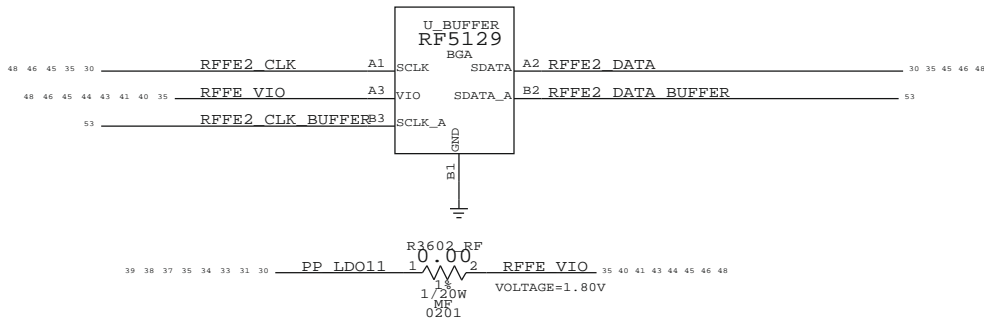
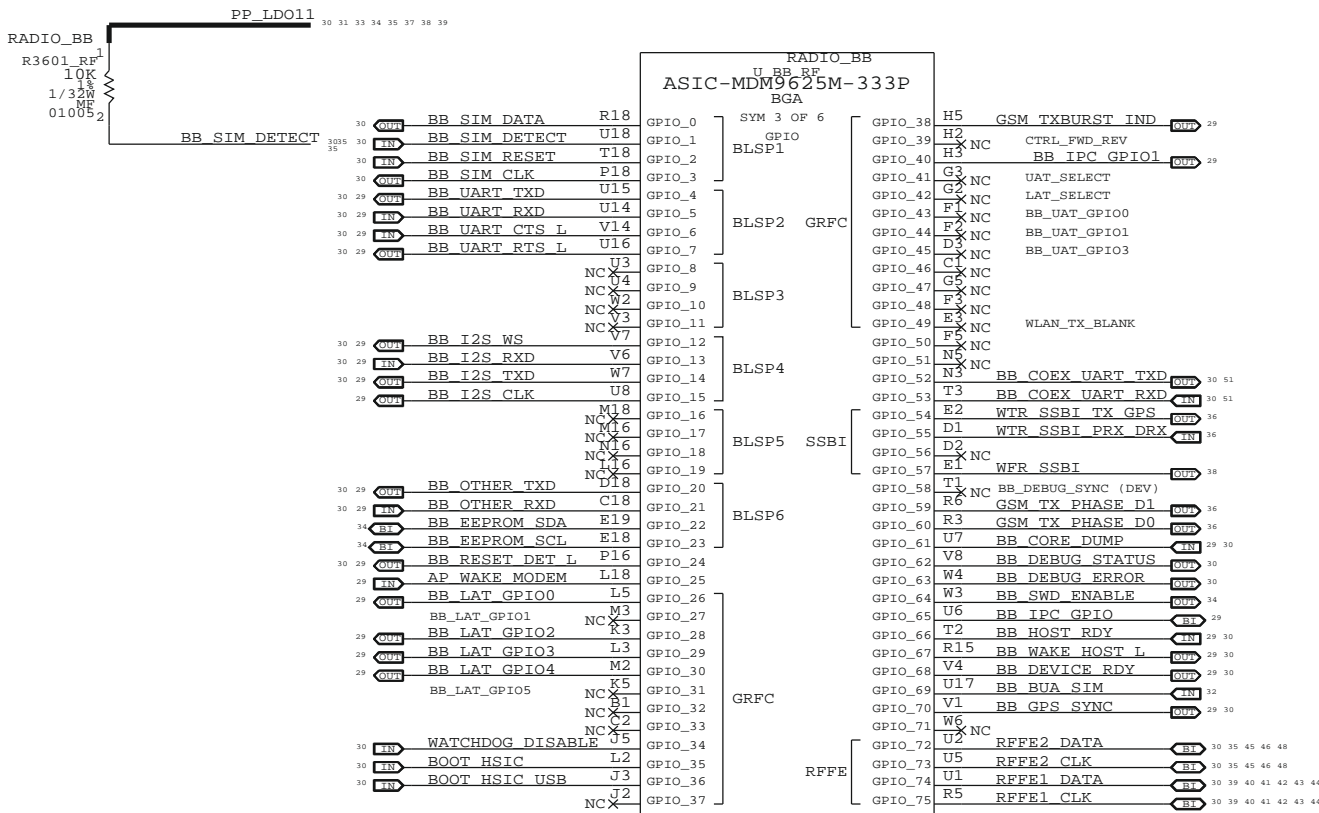
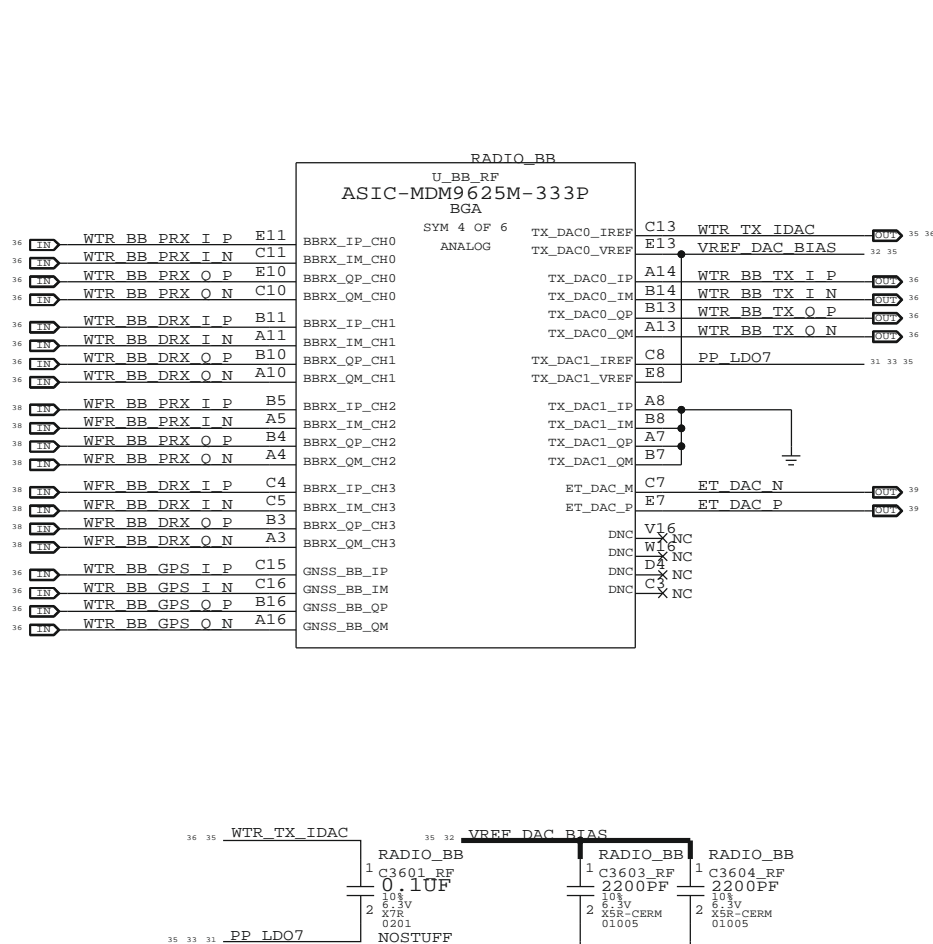
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L600  
U602



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C704  
R700  
L700  
U702



## MOBILE DATA MODEM (2 OF 2)

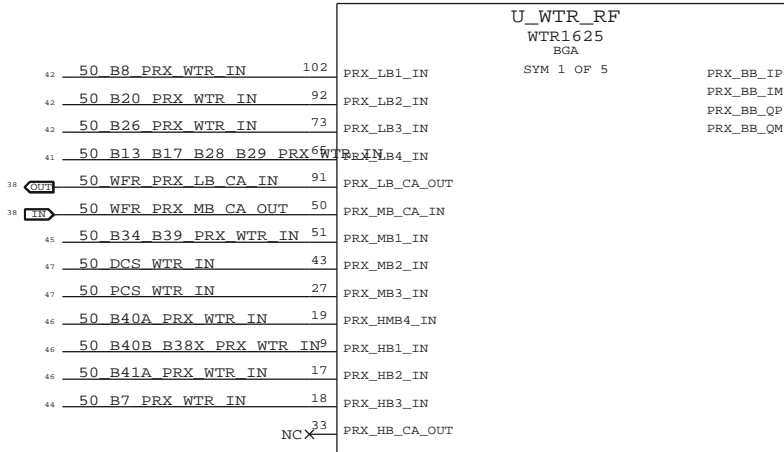
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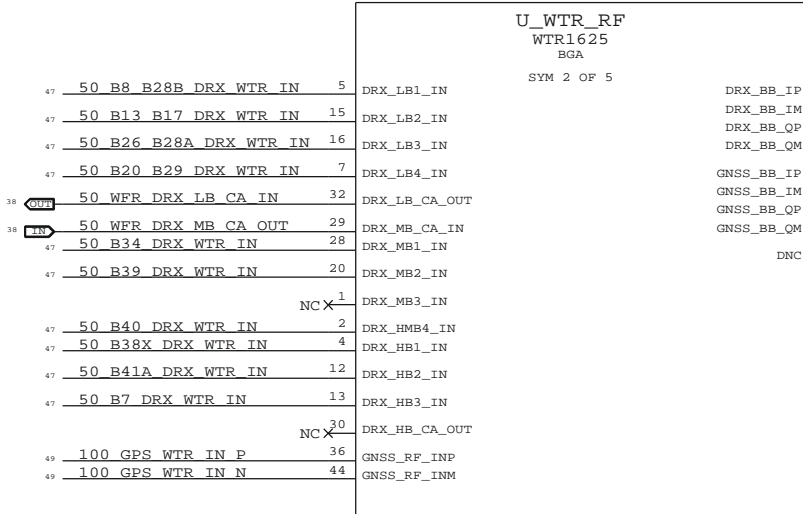
C802  
R802  
L800  
U803

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

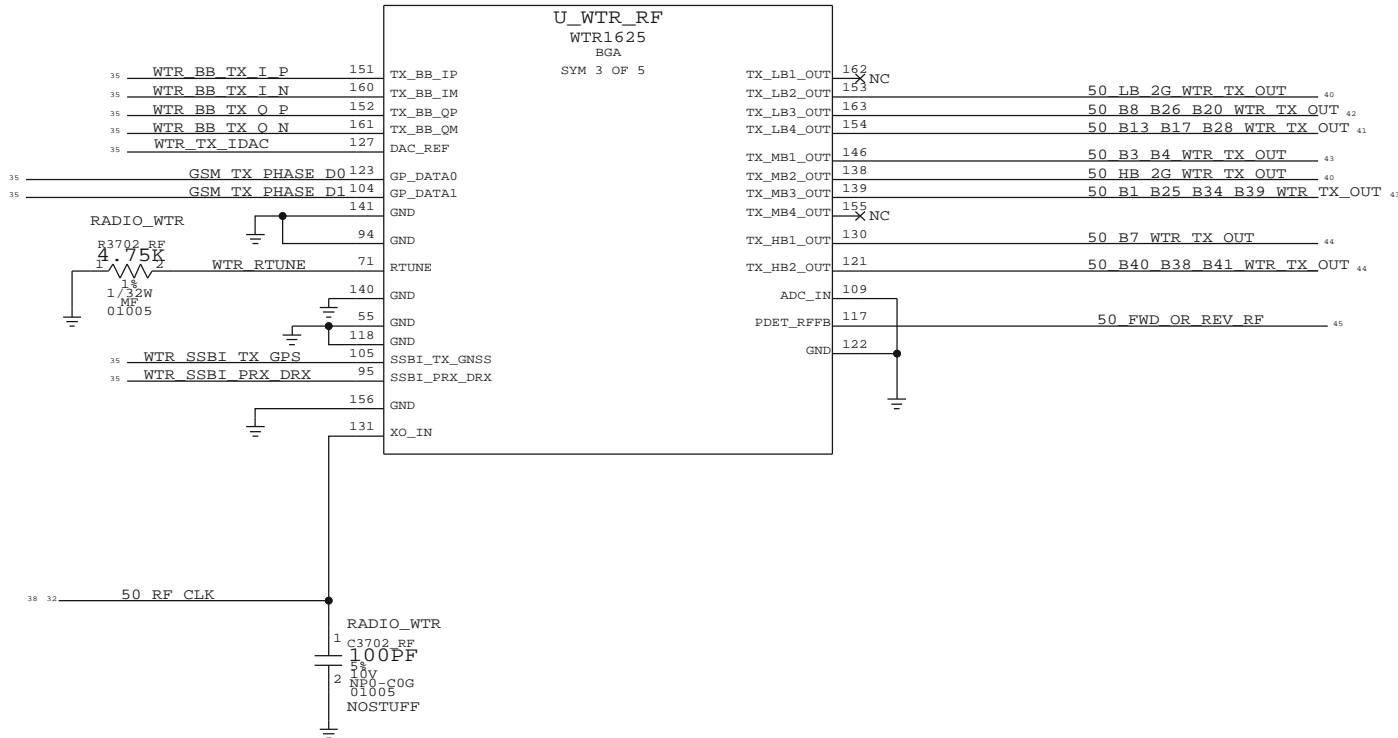


PRX_BB_IP	99	WTR_BB_PRX_I_P	35
PRX_BB_IM	108	WTR_BB_PRX_I_N	35
PRX_BB_QP	107	WTR_BB_PRX_O_P	35
PRX_BB_QM	97	WTR_BB_PRX_O_N	35

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



DRX_BB_IP	76	WTR_BB_DRX_I_P	35	RADIO_WTR
DRX_BB_IM	86	WTR_BB_DRX_I_N	35	RADIO_WTR
DRX_BB_QP	61	WTR_BB_DRX_O_P	35	RADIO_WTR
DRX_BB_QM	68	WTR_BB_DRX_O_N	35	RADIO_WTR
GNSS_BB_IP	60	WTR_BB_GPS_I_P	35	RADIO_WTR
GNSS_BB_IM	53	WTR_BB_GPS_I_N	35	RADIO_WTR
GNSS_BB_QP	67	WTR_BB_GPS_O_P	35	RADIO_WTR
GNSS_BB_QM	85	WTR_BB_GPS_O_N	35	RADIO_WTR



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

RF TRANSCEIVER (1 OF 3)

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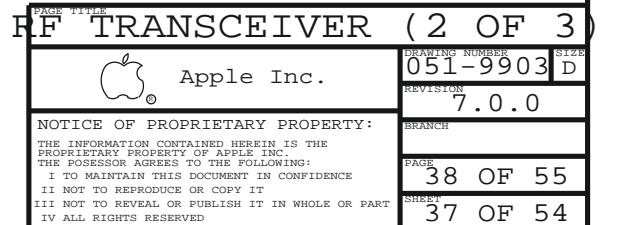
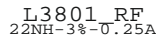
C934


R926

L3802\_RF

U902

L3801 RF  
22NH-3%-0.25A

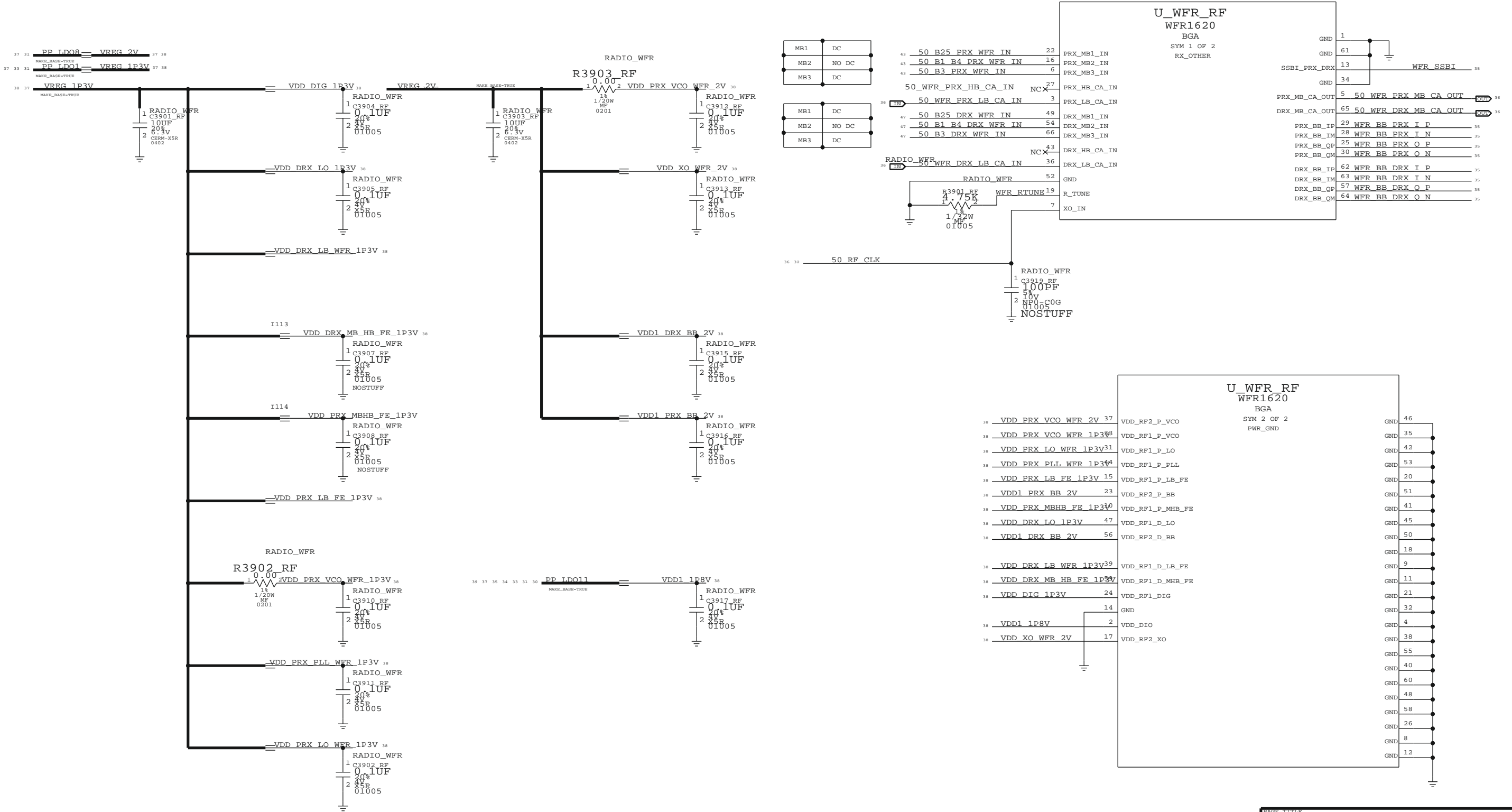


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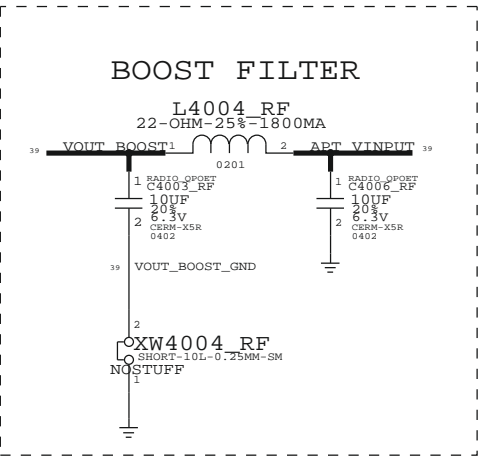
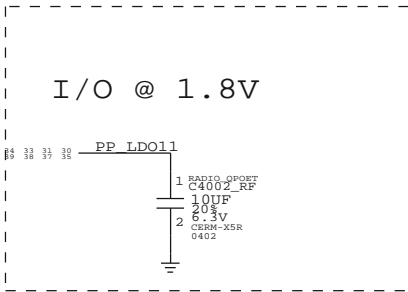
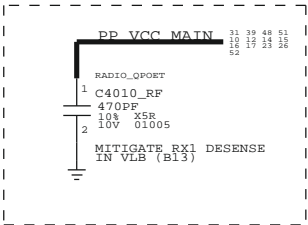
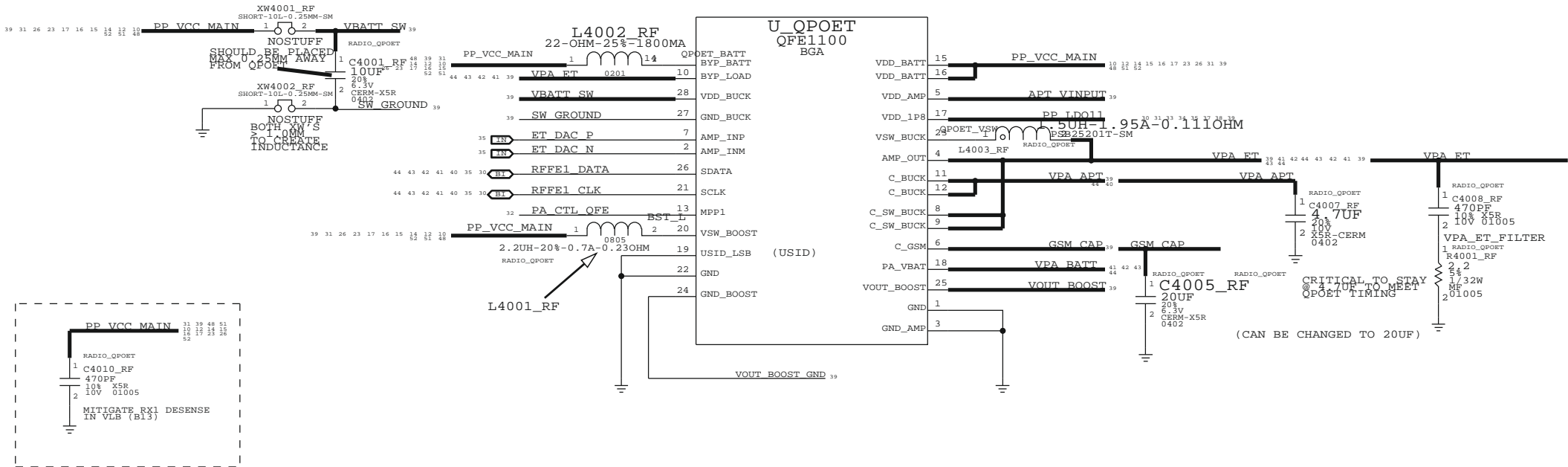
C1019  
R1016  
L1000  
U1002




# QFE DCDC

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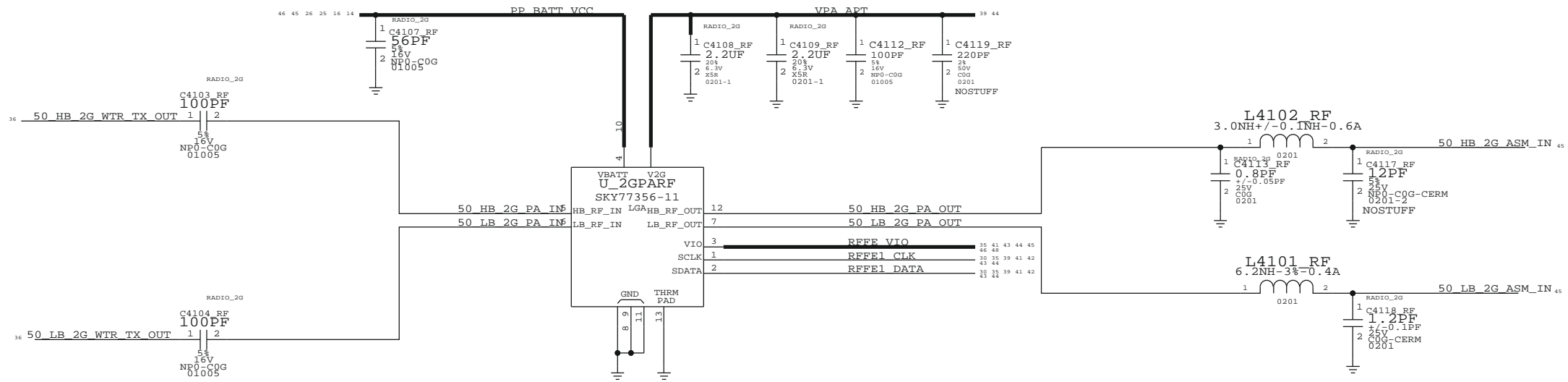
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


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C1208
R1200
L1204
U1201

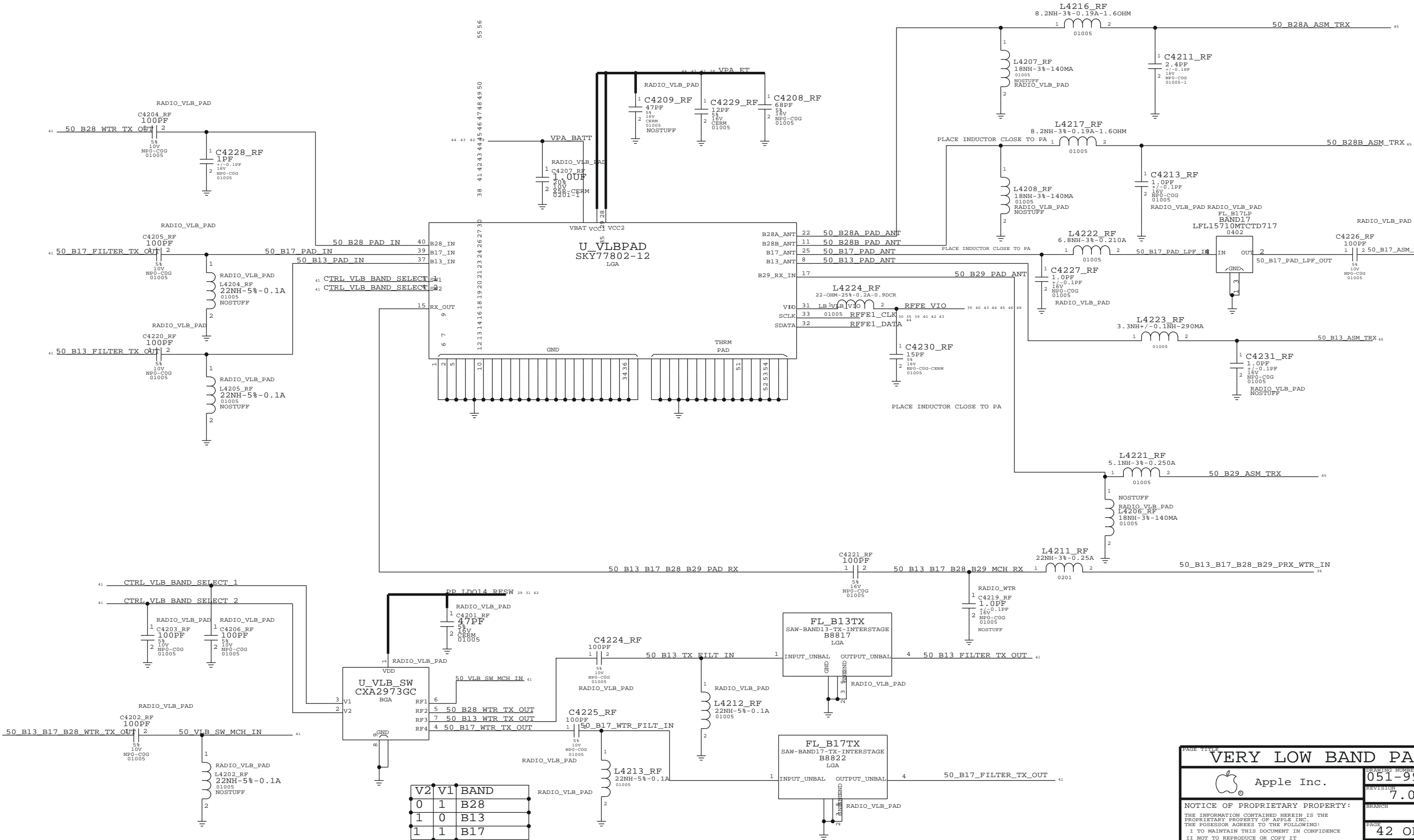


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# VERY LOW BAND PAD (B13, B17, B28)

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C1332
R1300
L4215_RF
U1304



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MID BAND PAD (B1, B25, B3, B4, B34, B39)

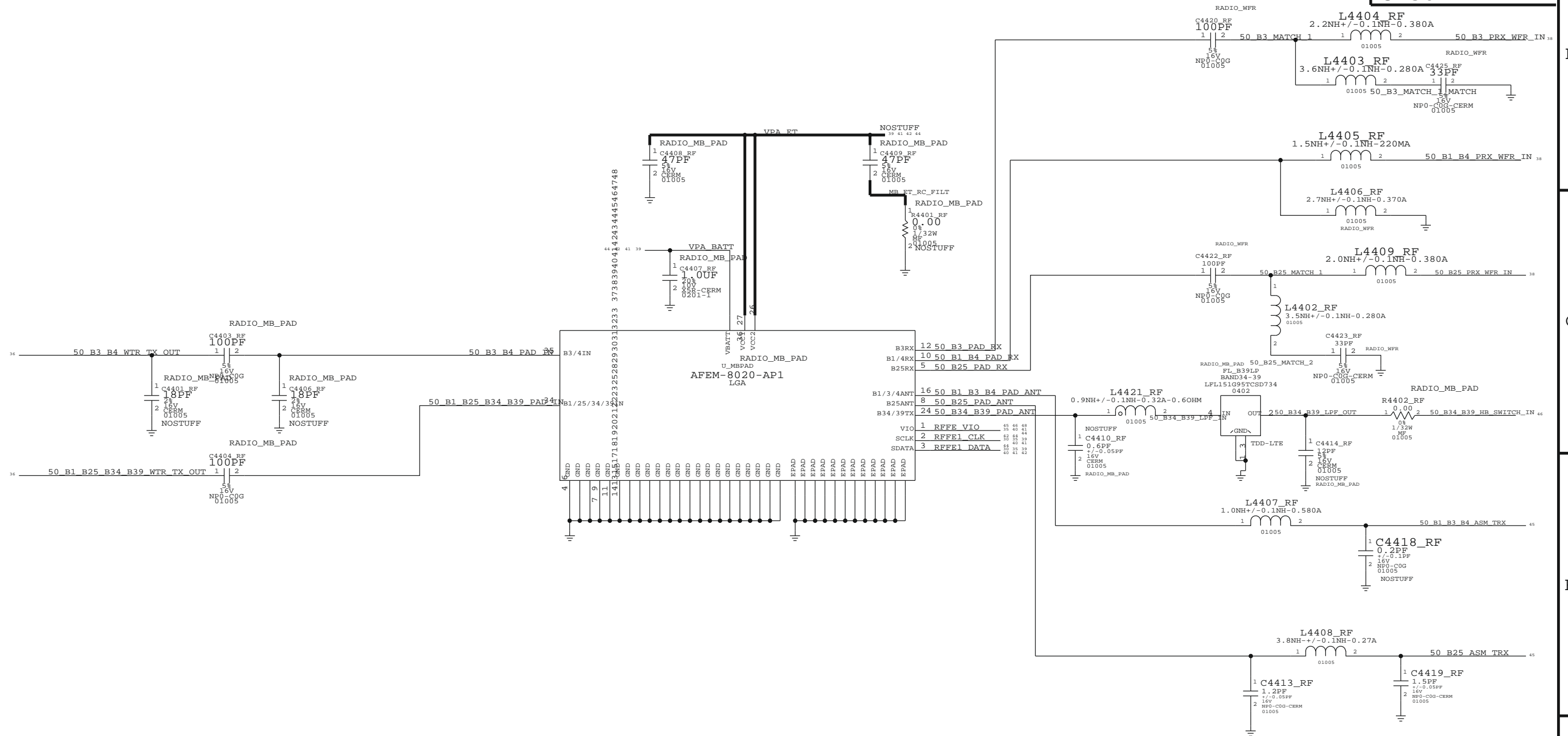
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C4426 RF

R1500

L4409\_RF

U1501

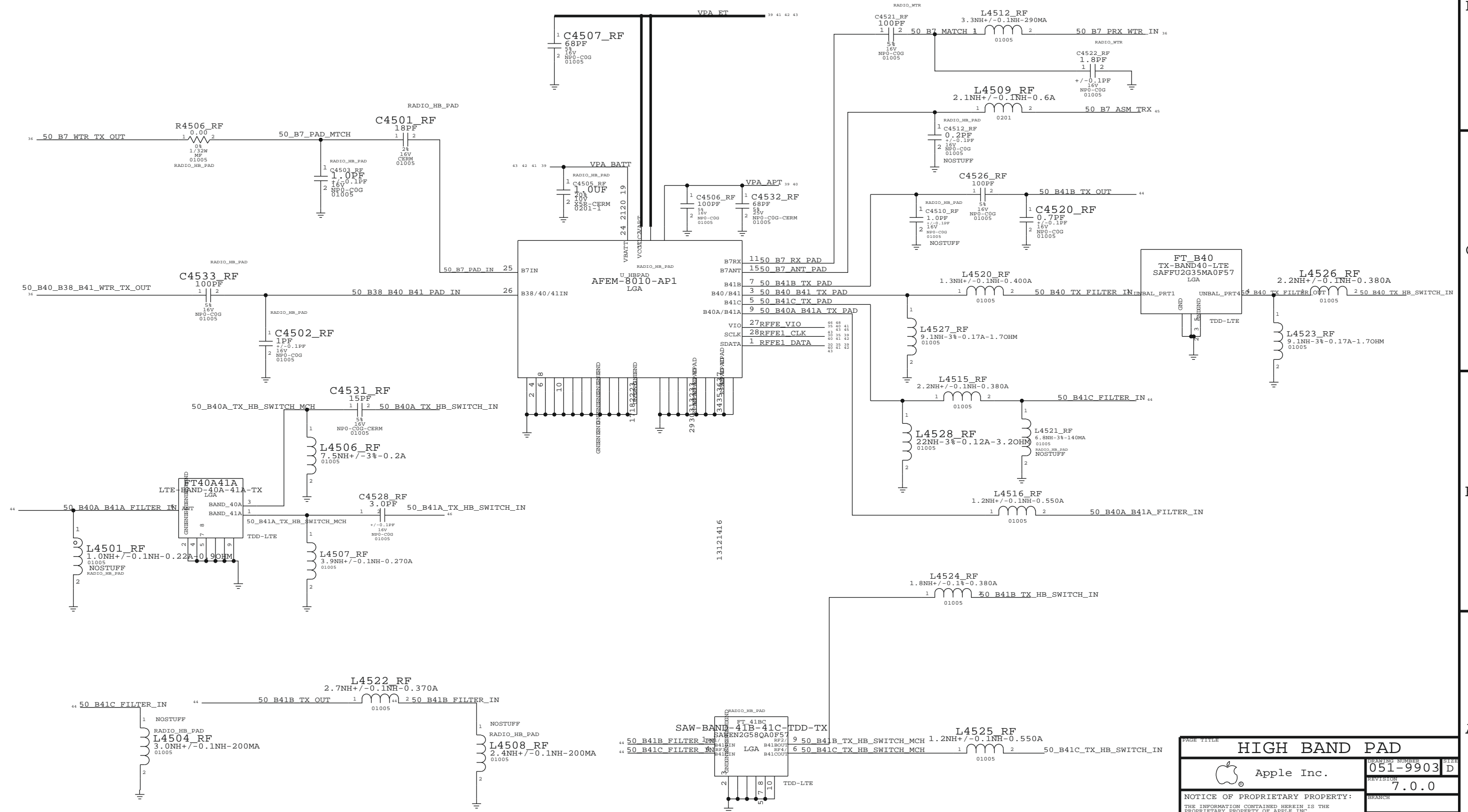



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HIGH BAND PAD (B7, B38, B40, B41, XGP)

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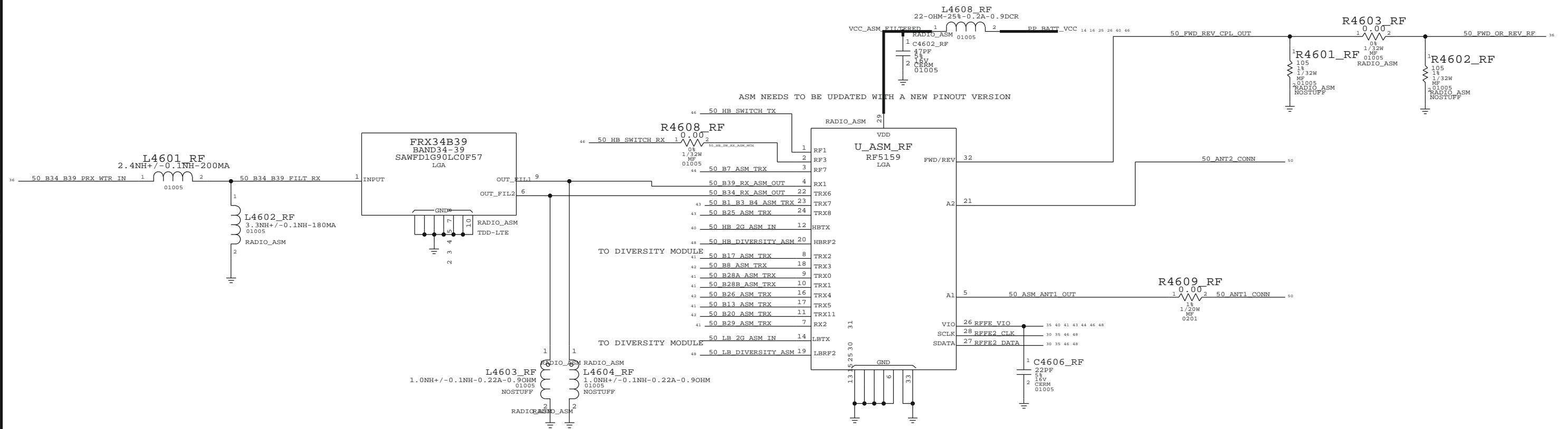
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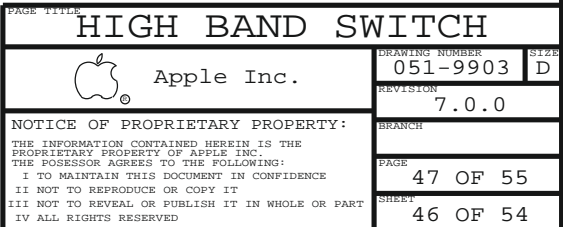
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C1702
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# RX DIVERSITY (1)

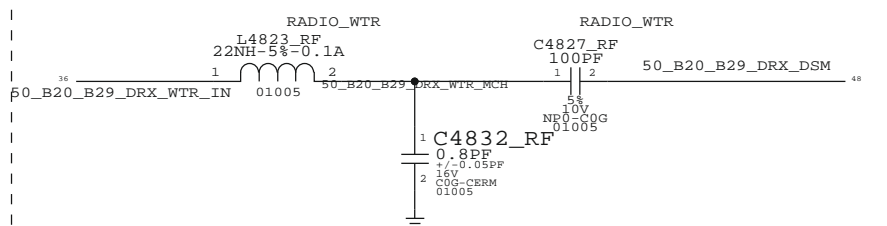
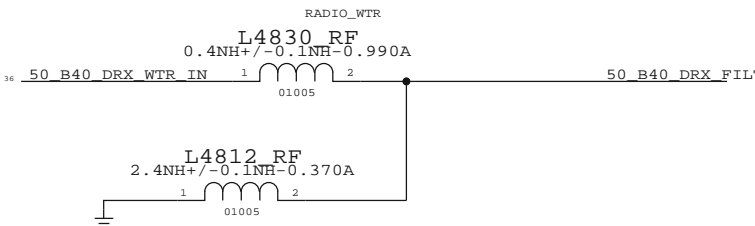
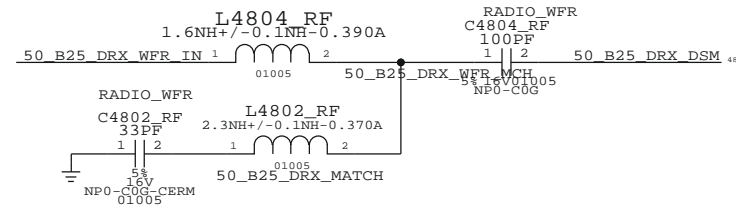
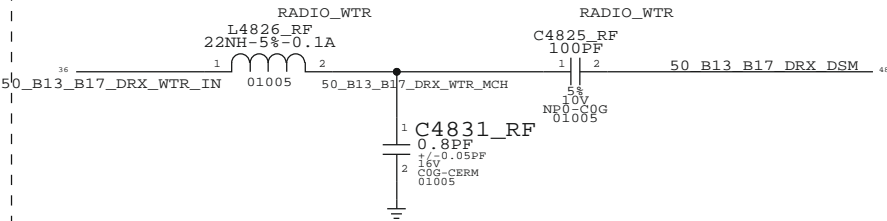
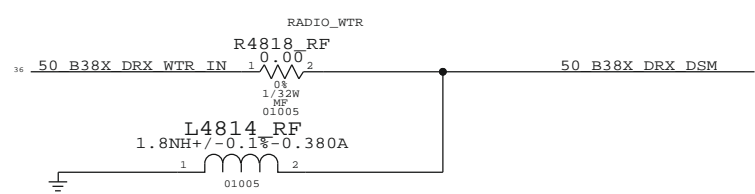
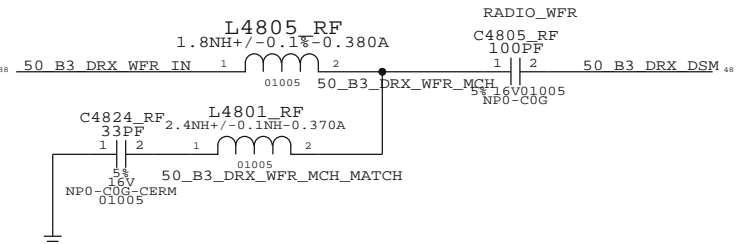
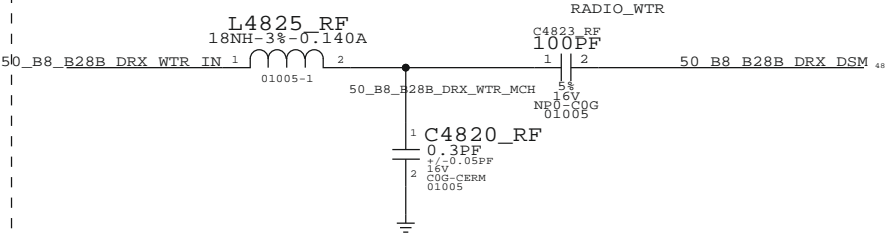
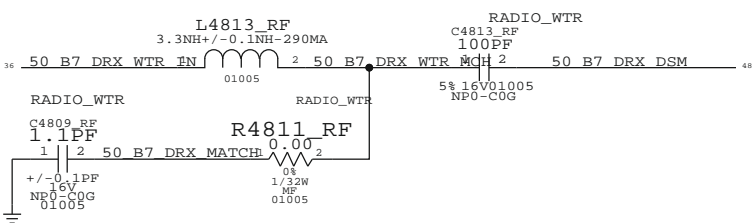
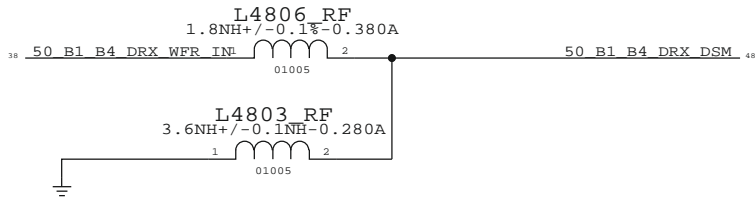
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L1829  
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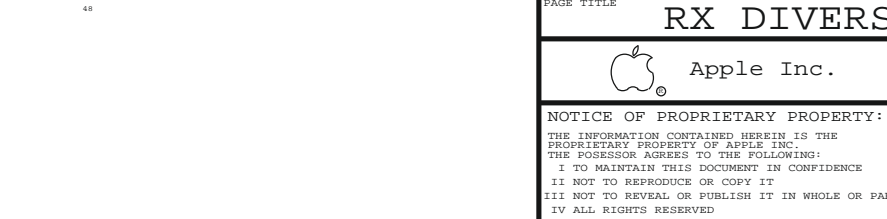
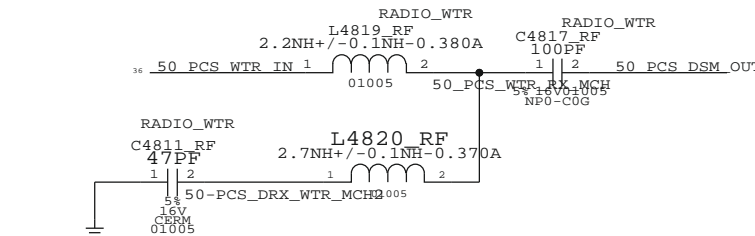
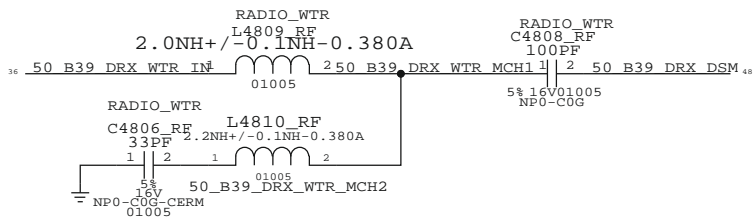
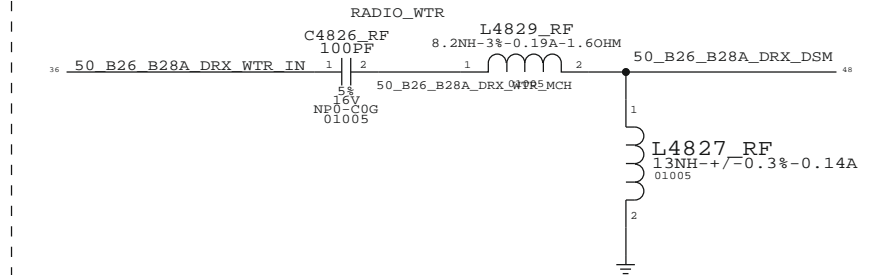
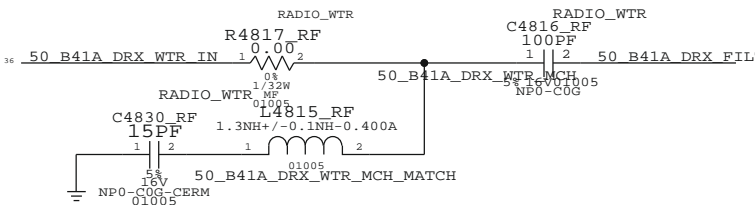
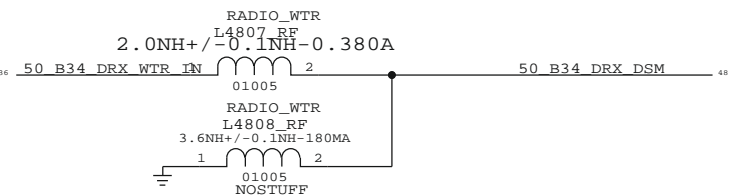
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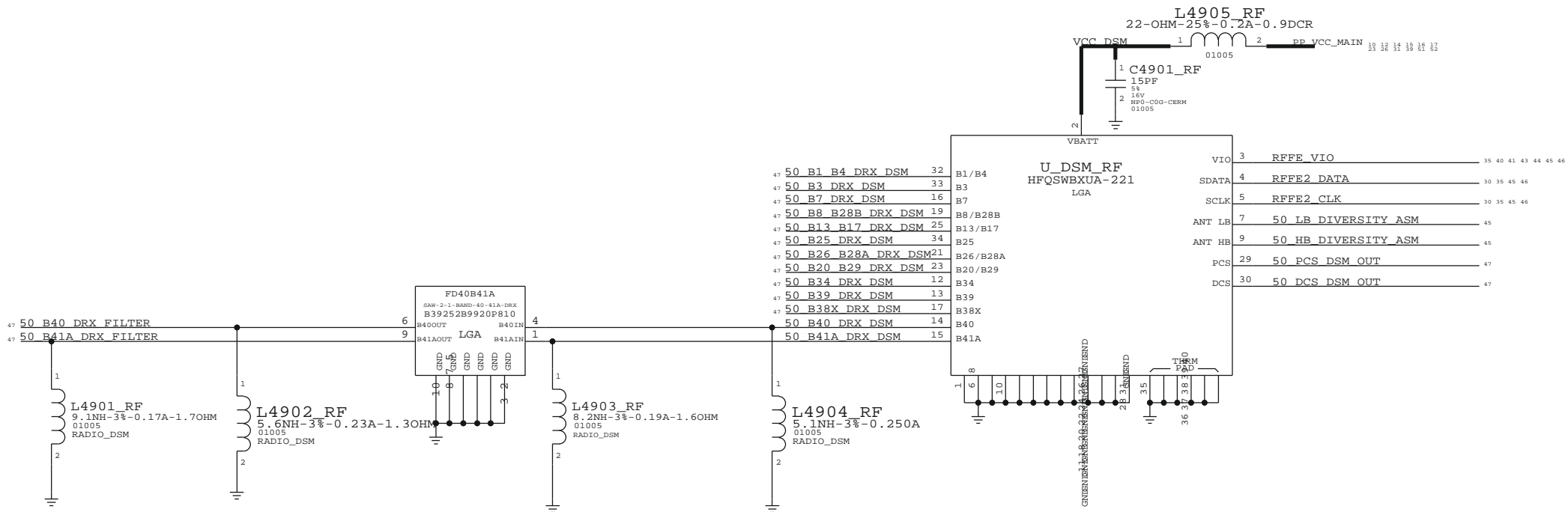



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## RX DIVERSITY (2)

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C1900
R1900
L1900
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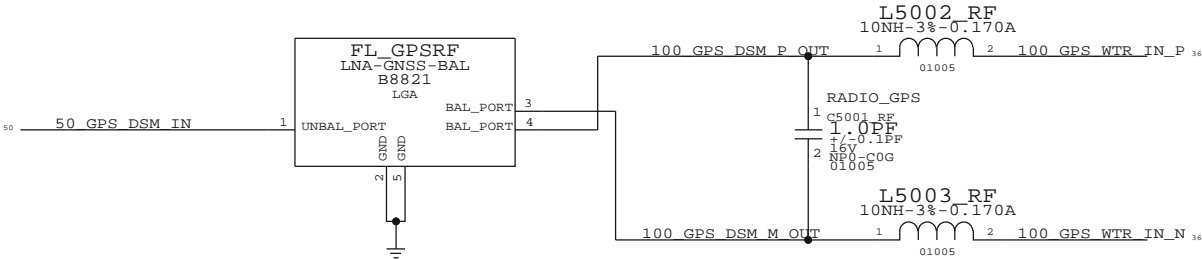
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L1900
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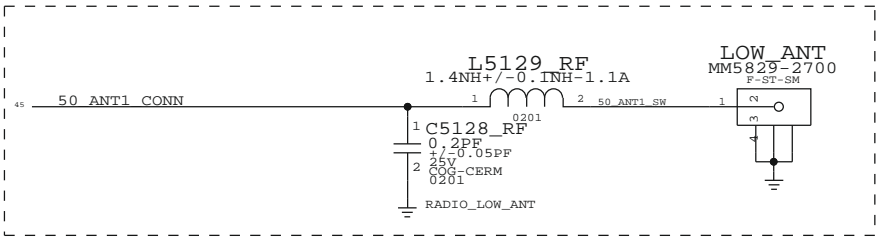
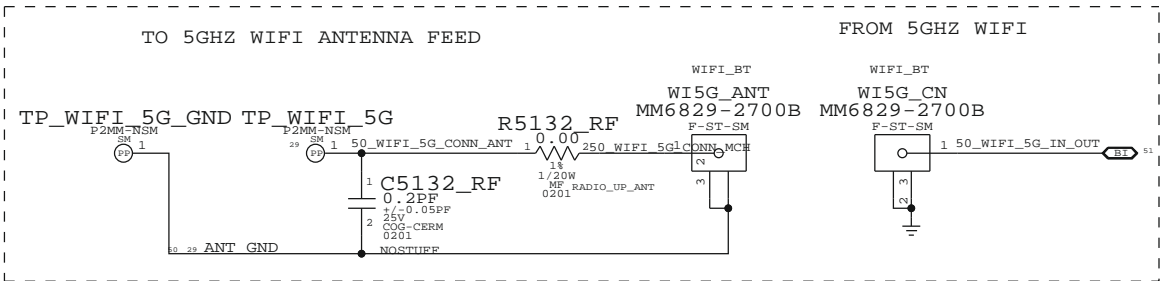
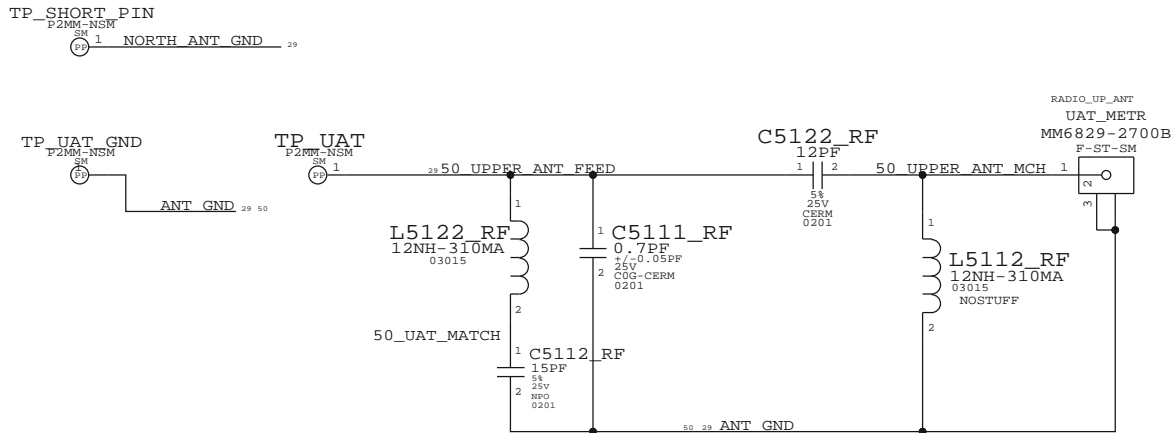
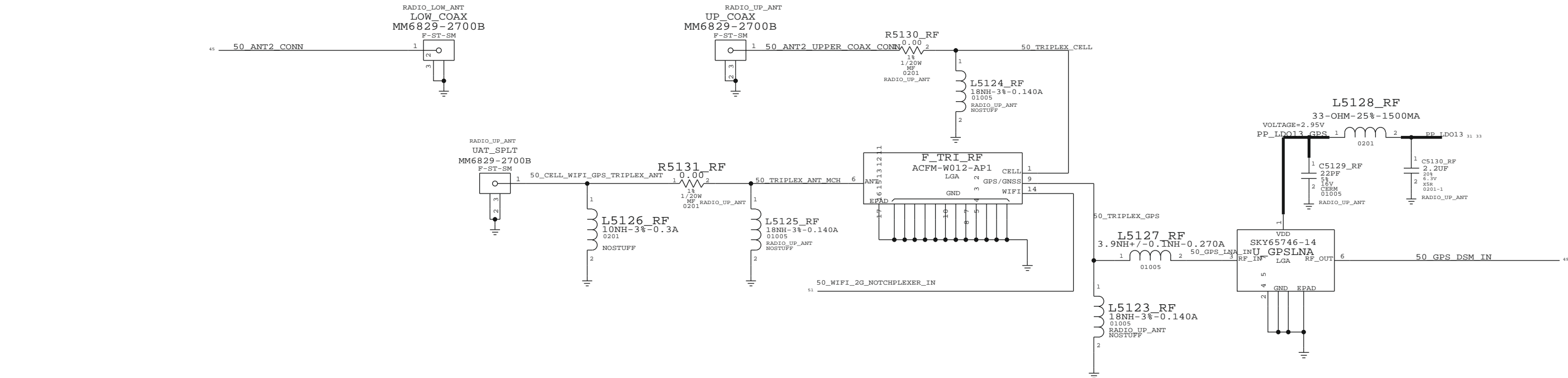



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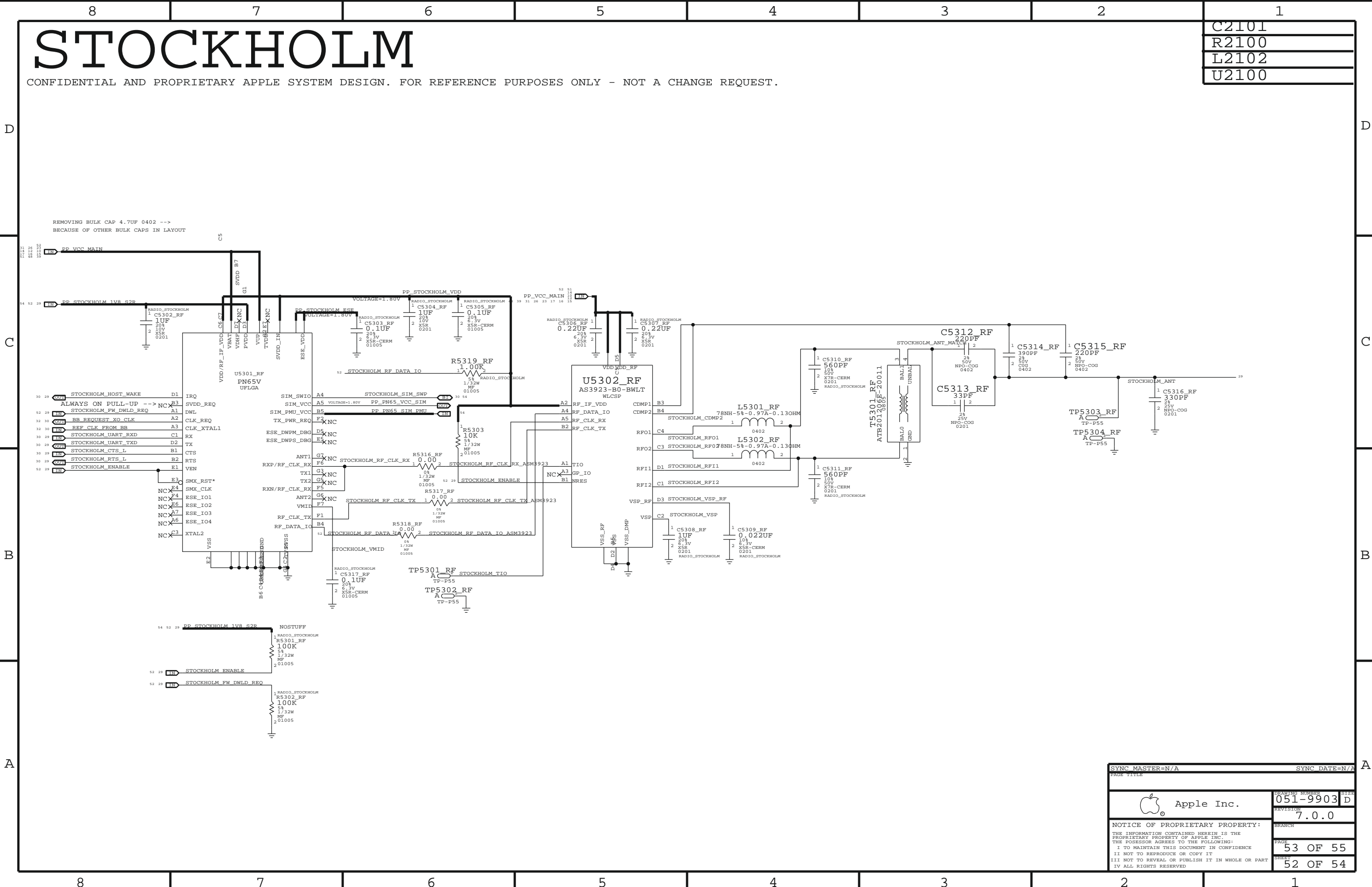
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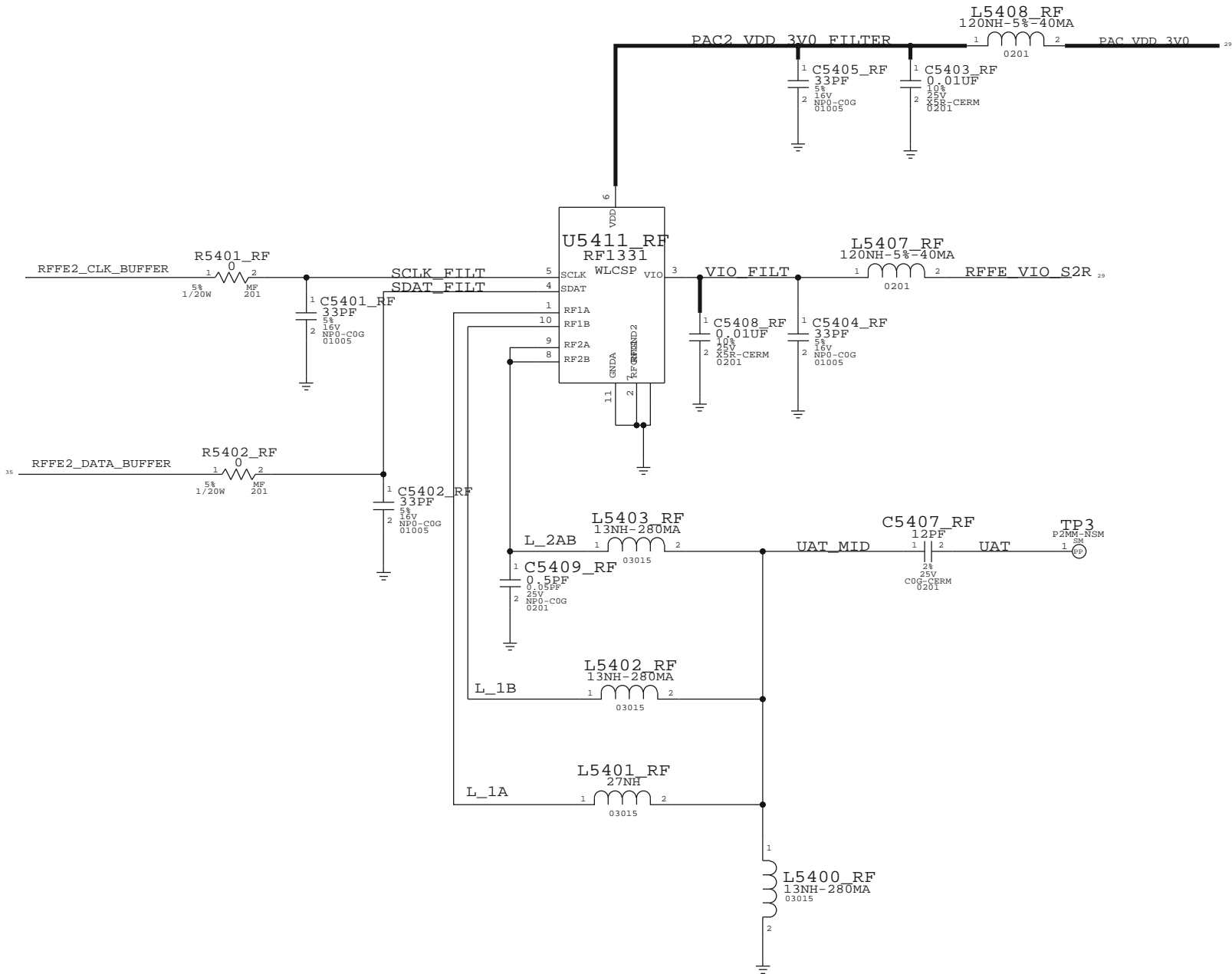



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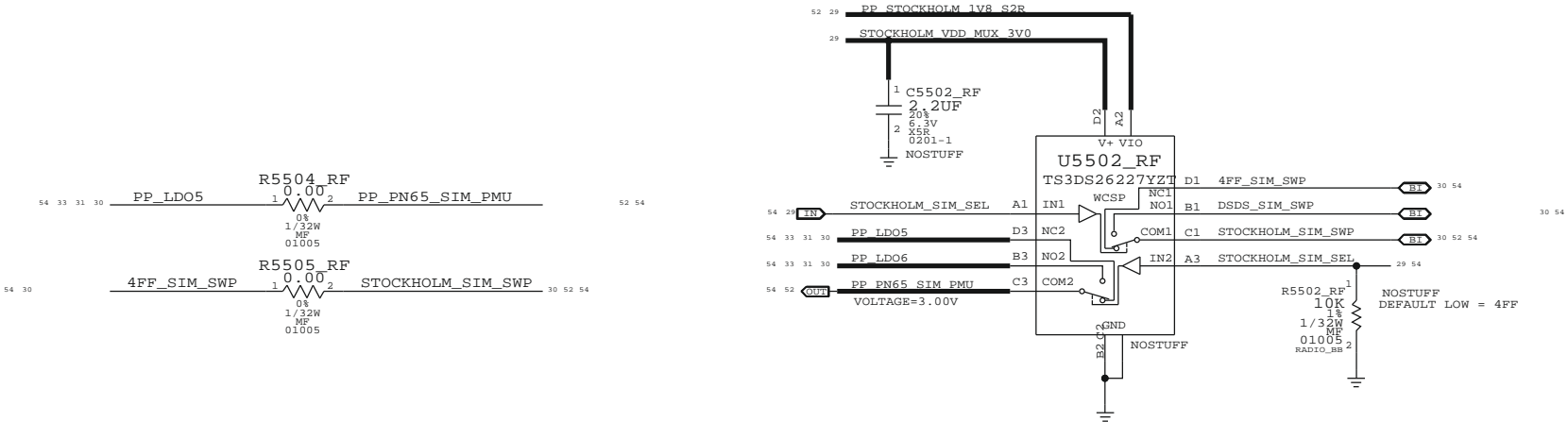
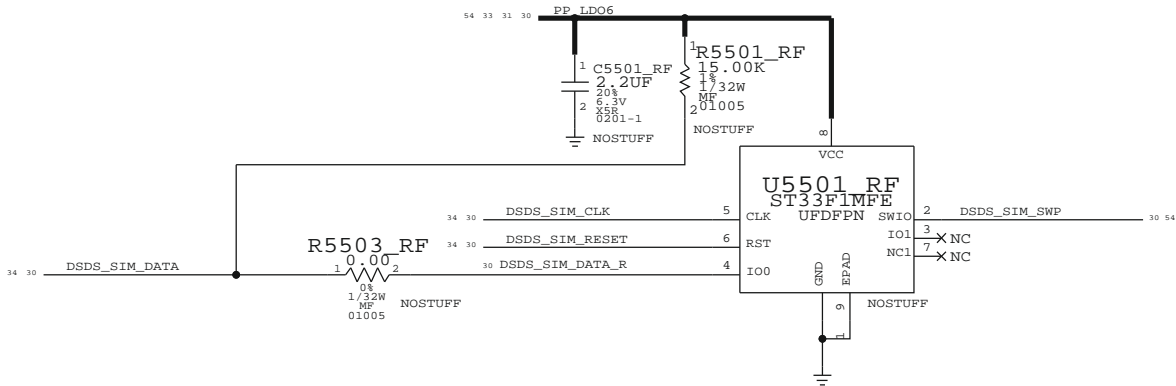
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