

IPHONE 6 - 4.7"

D

C

B

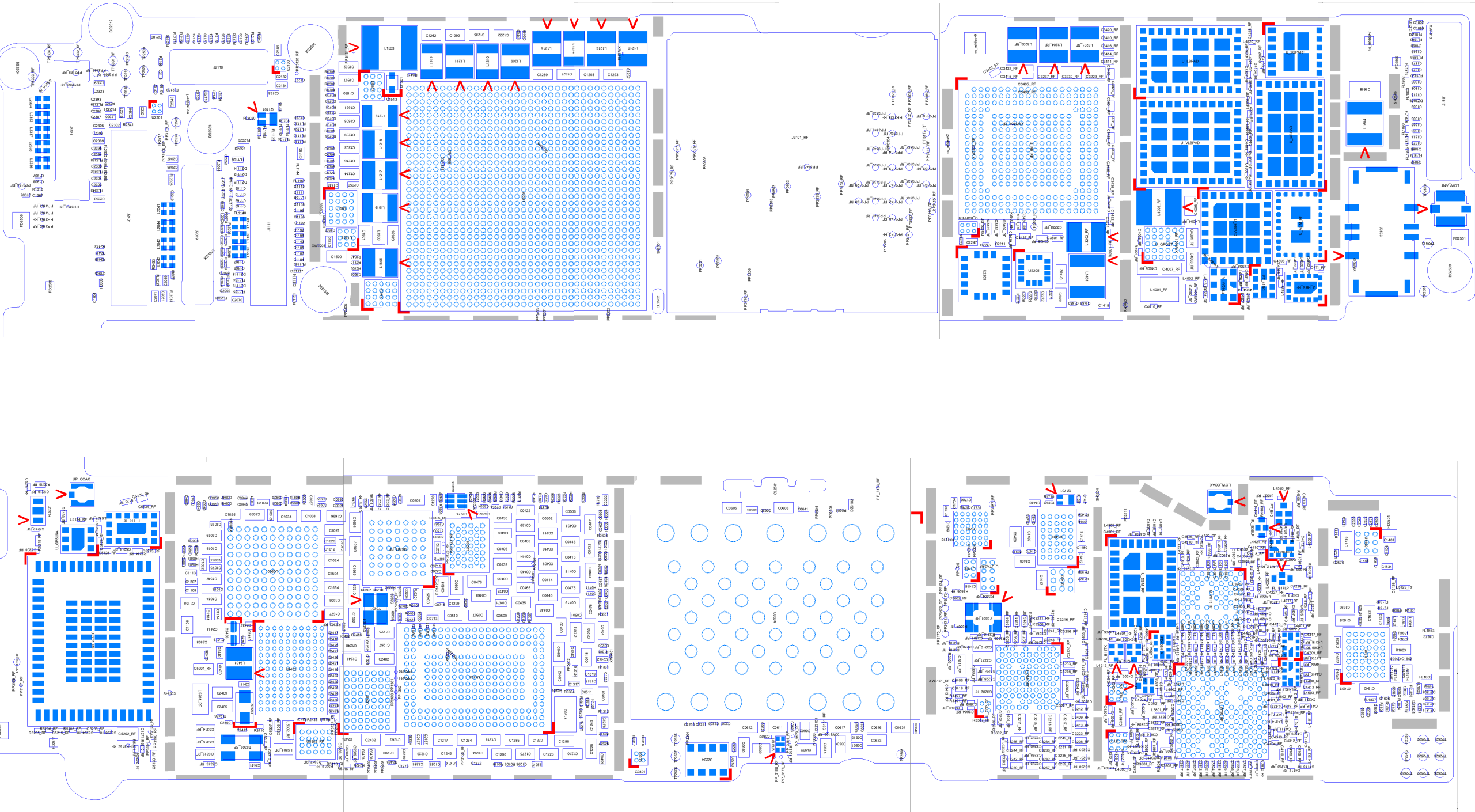
A

D


C

B

A



BRD 820-3486

DRAWING TITLE		
BOARD, BRD 820-3486		
 Apple Inc.	DRAWING NUMBER	820-3486
	REVISION	7.0.0
	BRANCH	
	PAGE	0 OF 55
NOTICE OF PROPRIETARY PROPERTY:		SHEET
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		0 OF 54
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		
II NOT TO REPRODUCE OR COPY IT		
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		
IV ALL RIGHTS RESERVED		

8

7

6

5

4

3

2

1

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

2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.

3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

Thu Apr 17 17:11:44 2014

N61 CARRIER BUILD

PDF PAGE

CONTENTS

22SOC:MAINN56_MLB08/29/2013

33SOC:I/OSN56_MLB08/29/2013

44SOC:VDDCA,VDD1/2,VDD,VDD_CPU,VDD_GPUN56_MLB08/29/2013

55SOC:GND,VDDIO18,VDDIOD,VDD_VAR_SOCN56_MLB08/29/2013

66SOC:NANDN56_MLB08/29/2013

77SOC:CAM,LCD,LPDP,PCIEN56_MLB08/29/2013

88IO:BUTTON FLEX CONNN61_MLB08/26/2013

99AUDIO:L67 CODEC (1/2)N61_MLB08/26/2013

1010AUDIO:L67 CODEC (2/2)N61_MLB08/26/2013

1111CAMERA:FRONT FLEX CONNN61_MLB08/26/2013

1212POWER:ADI (1/2)N56_MLB08/29/2013

1313POWER:ADI (2/2)N56_MLB08/29/2013

1414POWER:TIGRISR,VIBE DRIVERN61_MLB08/21/2013

1515DISPLAY:CHESTNUT,BACKLIGHT DRIVERN61_MLB08/26/2013

1616AUDIO:SPKR AMP,STROBEN61_MLB08/26/2013

1717IO:TRISTAR2N61_MLB08/26/2013

1818IO:DOCK FLEX CONNN61_MLB08/26/2013

1919SENSORS:COMPASSN61_MLB08/26/2013

2020DISPLAY:FLEX CONNN61_MLB08/26/2013

2121SENSORS:MESA FLEX CONNN61_MLB08/26/2013

2222SENSORS:OSCAR,CARBON,PHOS,MAGNESIUMN61_MLB08/26/2013

2323CAMERA:REAR FLEX CONNN61_MLB08/26/2013

2424TOUCH:CUMULUS,MESONN/A

2525POWER:BATT CONN,TPS,PD FEATURESN61_MLB08/26/2013

2626SYSTEM:VOLTAGE PROPERTIESN56_MLB09/10/2013

2727SYSTEM:N61 SPECIFICN56_MLB09/10/2013

2828BLANKN56_MLB09/10/2013

2930CELL:ALIASES

3031AP INTERFACE & DEBUG CONNECTORSN61_RADIO_MLB03/24/2014

3132BASEBAND PMU (1 OF 2)N61_RADIO_MLB03/24/2014

3233BASEBAND PMU (2 OF 2)N61_RADIO_MLB03/24/2014

3334BASEBAND (1 OF 2)N61_RADIO_MLB03/24/2014

3435BASEBAND (1 OF 2)N61_RADIO_MLB03/24/2014

3536MOBILE DATA MODEM (2 OF 2)N61_RADIO_MLB03/24/2014

3637RF TRANSCEIVER (1 OF 3)N61_RADIO_MLB03/24/2014

3738RF TRANSCEIVER (2 OF 3)N61_RADIO_MLB03/24/2014

3839RF TRANSCEIVER (3 OF 3)N61_RADIO_MLB03/24/2014

3940QFE DCDCN61_RADIO_MLB03/24/2014

40412G PAN61_RADIO_MLB03/24/2014

4142VERY LOW BAND PADN61_RADIO_MLB03/24/2014

4243LOW BAND PADN61_RADIO_MLB03/24/2014

4344MID BAND PADN61_RADIO_MLB03/24/2014

4445HIGH BAND PADN61_RADIO_MLB03/24/2014

4546ANTENNA SWITCHN61_RADIO_MLB03/24/2014

4647HIGH BAND SWITCHN61_RADIO_MLB03/24/2014

4748RX DIVERSITYN61_RADIO_MLB03/24/2014

4849GPSN61_RADIO_MLB03/24/2014

4950GPSN61_RADIO_MLB03/24/2014

5051ANTENNA FEEDSN61_RADIO_MLB03/24/2014

5152WIFI/BT: MODULE AND FRONT ENDN61_RADIO_MLB03/24/2014

5253

5354JUMPERN61_RADIO_MLB03/24/2014

5455JUMPERN61_RADIO_MLB03/24/2014

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	CAP,XSR,10UF,20%,6.3V,0.65MM,HRTZ,0402	C0610,C0611,C0614,C0634	CRITICAL	NAND_16G
138S0867	1	CAP,XSR,10UF,20%,6.3V,0.65MM,HRTZ,0402	C0613,C0633,C0610,C0611,C0614,C0634	CRITICAL	NAND_32G & NAND_64G
138S00003	1	CAP,XSR,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	J0604	TOSHIBA,NAND,16GB
335S1038	335S0998	ALTERNATE	J0604	HYNIX,NAND,16GB
335S1040	335S0994	ALTERNATE	J0604	HYNIX,NAND,64GB
335S00014	335S0994	ALTERNATE	J0604	TOSHIBA,NAND,64GB
335S00015	335S00010	ALTERNATE	J0604	TOSHIBA,NAND128GB
335S00009	335S0994	ALTERNATE	J0604	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
825-6838	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_F98F	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
197S0392	197S0369	ALTERNATE	Y1200	ESRON ALT XTAL
197S0399	197S0369	ALTERNATE	Y1200	NDK ALT XTAL
338S1285	338S1202	ALTERNATE	U1601	L21 SPKAMP
152S2034	152S2033	ALTERNATE	U209,U1211,L1213	1.2MM 1.0UH, CYNTEC
152S00004	152S2049	ALTERNATE	U210,U1212,L1214	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	CMC,90OHM,MURATA
377S0168	377S0140	ALTERNATE	DZ1113	SUPPL TRANS,VARIABLE,AMOTECH
155S0885	155S0610	ALTERNATE	FL1802,FL1803	FERR RD,150OHM,100MA,01005
138S0648	138S0652	ALTERNATE	C1018	CAP,4.7UF,20%,6.3V,0402,R=0.65MM
138S0657	138S0702	ALTERNATE	C1106	CAP,4.3UF,20%,4V,0410
338S00028	338S00017	ALTERNATE	U2203	CARBON, BOSCH, BWI162BC
338S00029	338S00017	ALTERNATE	U2203	CARBON, ST, AP6DE2AA
335S00013	335S0894	ALTERNATE	J0301	RT 8K RESRON

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)

DRAWING TITLE

SCHEM,MLB,N61

Apple Inc.

Apple Inc.

NOTICE OF PROPRIETARY PROPERTY:

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:

I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART

IV ALL RIGHTS RESERVED

DRAWING NUMBER

051-9903

REVISION

7.0.0

BRANCH

PAGE

1 OF 55

SHEET

1 OF 54

SIZE

D

FIJI: DIGITAL I/O, BOOTSTRAPPING

D

C

B

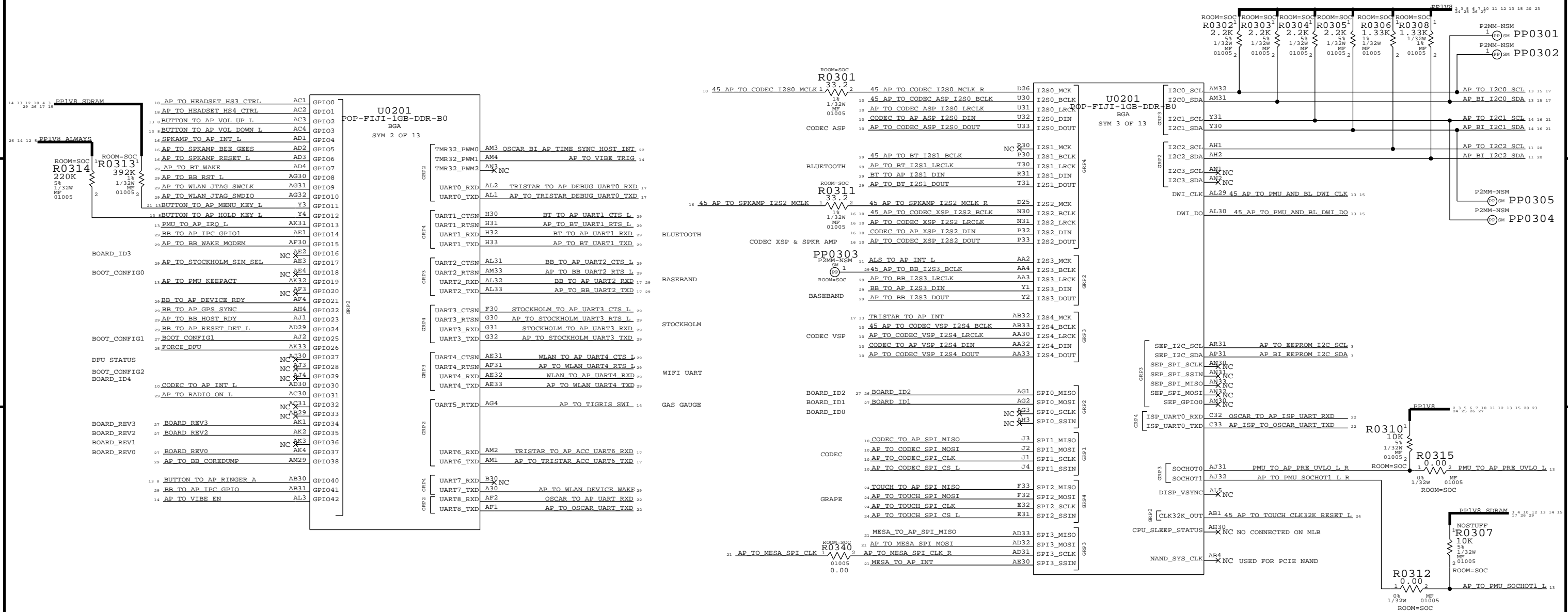
A

D

C

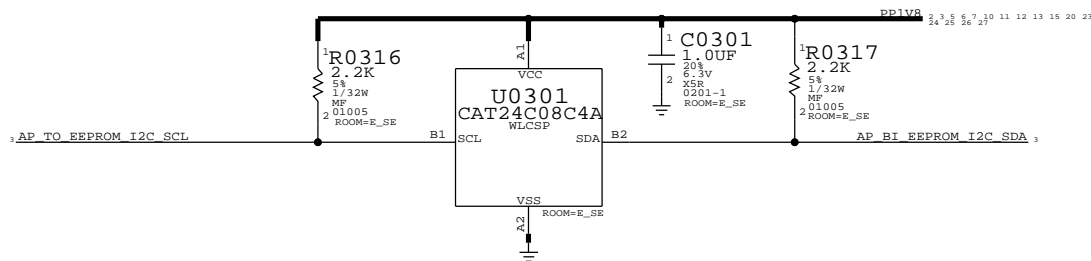
B


A



ANTI-ROLLBACK EEPROM
ONSEMI EEPROM
APN: 335S0894

REMOVED HOLD + MENU KEY
BUFFERS SINCE NOT NEEDED FOR FIJI



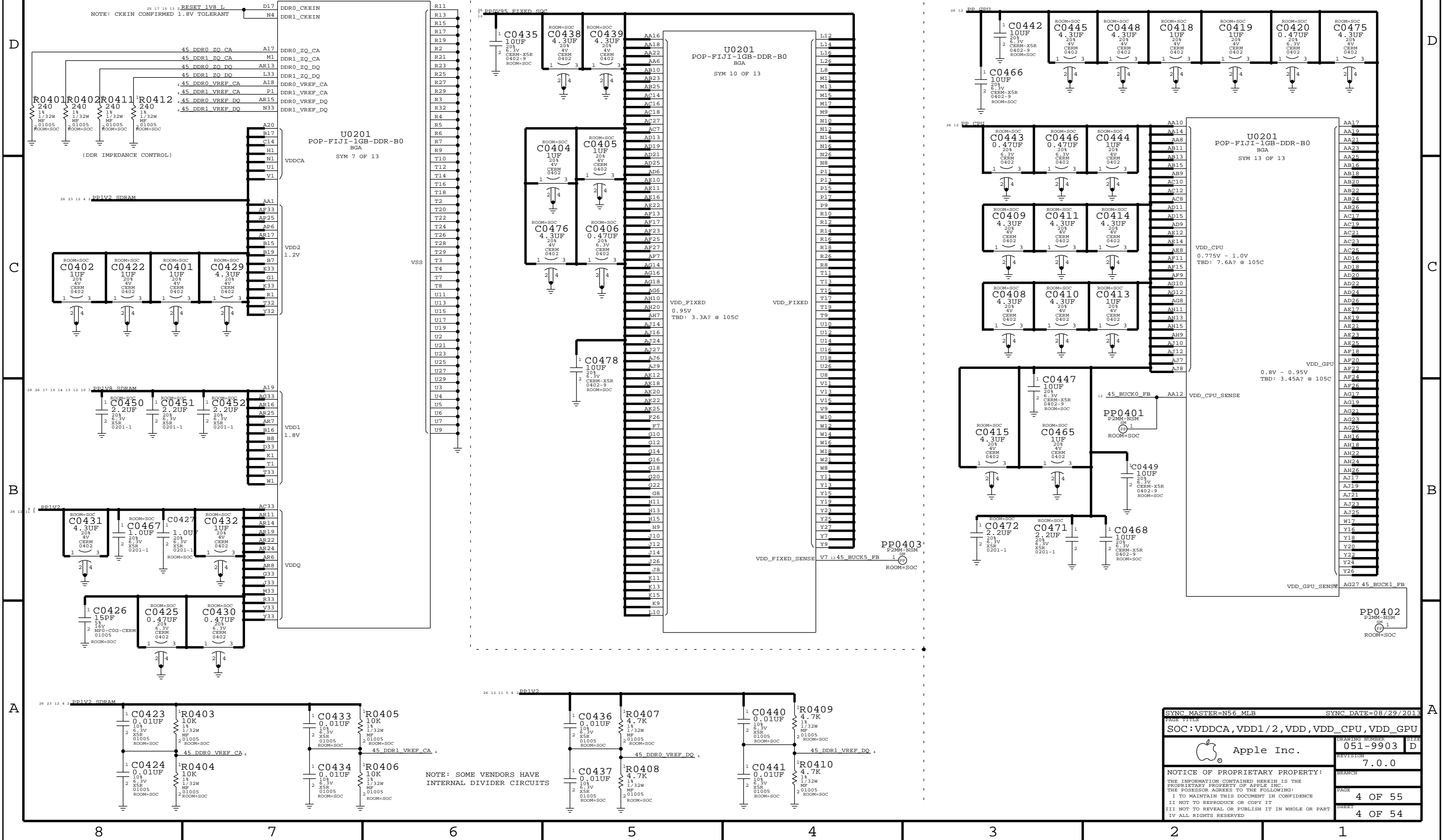
SYNC MASTER=N56 MLB		SYNC DATE=08/29/2013	
PAGE TITLE		SOC: I/OS	
 Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH	
		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

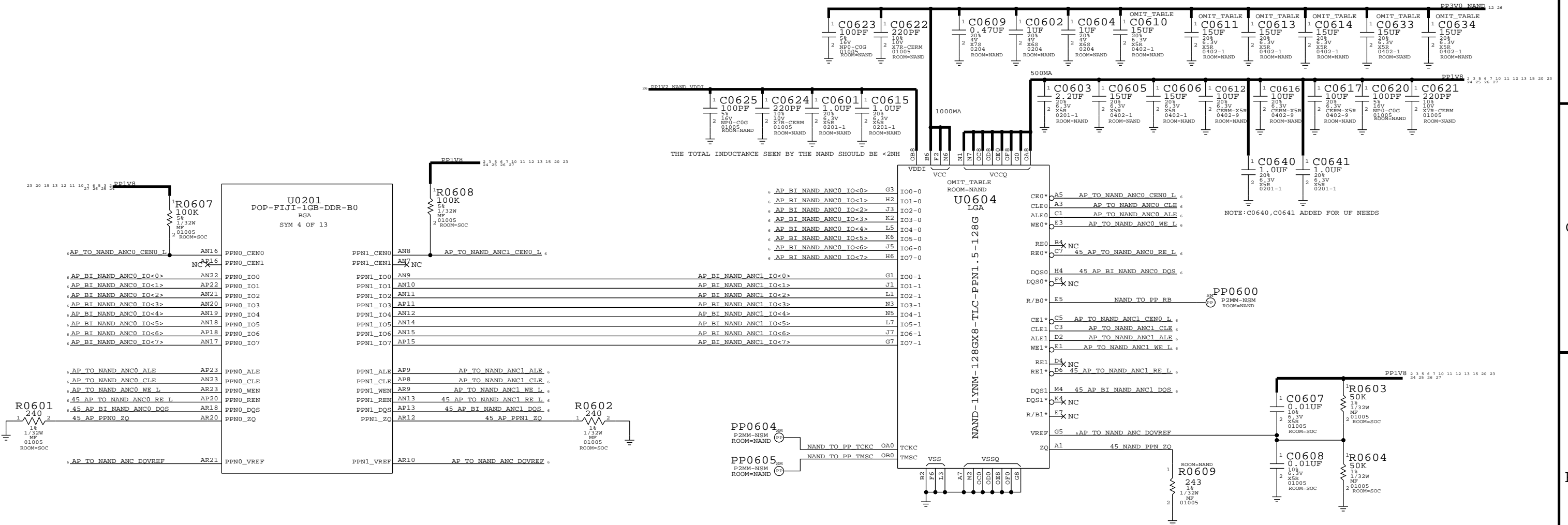
VDD_CPU, VDD_GPU




SYNC MASTER=N56 MLB		SYNC DATE=08/29/2013	
PAGE TITLE		SOC:VDDCA,VDD1/2,VDD,VDD_CPU,VDD_GPU	
Apple Inc.		DRAWING NUMBER	051-9903
NOTICE OF PROPRIETARY PROPERTY:		REVISION	7.0.0
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		BRANCH	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		PAGE	4 OF 55
II NOT TO REPRODUCE OR COPY IT		SHEET	4 OF 54
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

FIJI: NAND + 12X17 NAND PKG

SUPPORT FOR PPN1.5 (1.8V IO) ONLY



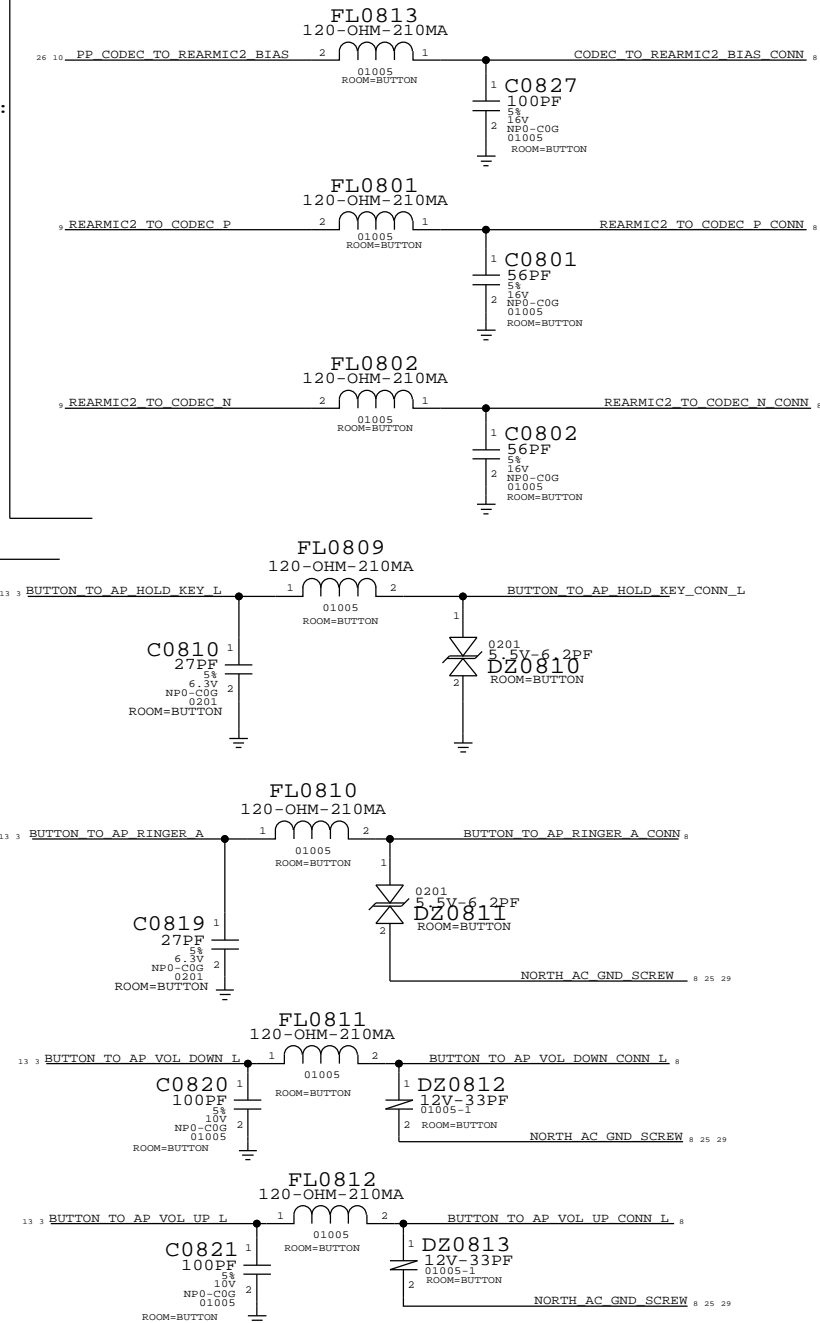
SYNC MASTER=N56 MLB		SYNC DATE=08/29/2013	
PAGE TITLE			
SOC : NAND			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-9903		D
NOTICE OF PROPRIETARY PROPERTY:		REVISION	
		7.0.0	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		BRANCH	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		PAGE	
II NOT TO REPRODUCE OR COPY IT		6 OF 55	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		SHEET	
IV ALL RIGHTS RESERVED		6 OF 54	

8 7 6 5 4 3 2 1

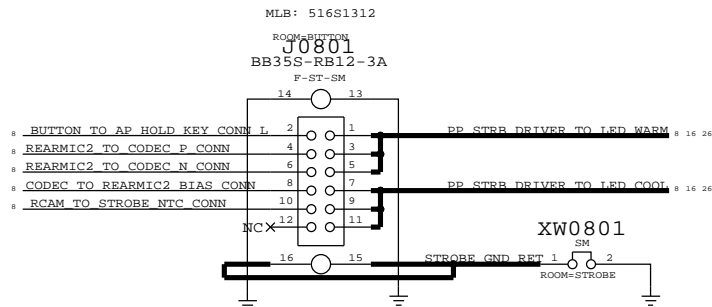
BUTTON FLEX (BUTTONS, ANC REF MIC, STROBE, STROBE_NTC, WIFI FLEX PAC)

MIC2 (ANC REF MIC):
MIC2/4 BIAS,
MIC2_P,_N

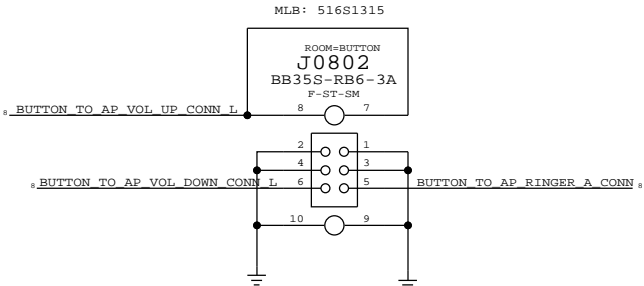
BUTTONS:
RINGER, HOLD,
VOL_UP/DOWN,



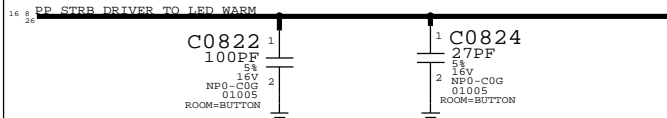
RIGHT BUTTON B2B



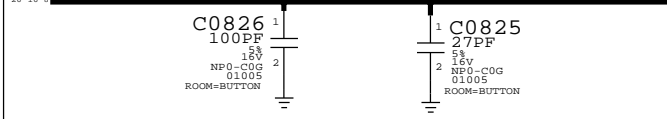
LEFT BUTTON B2B



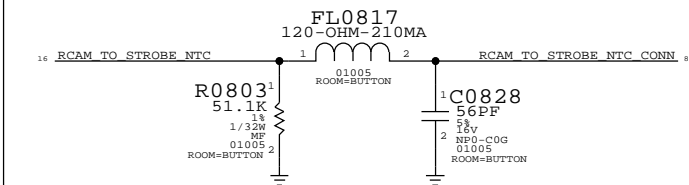
STROBE:
LED WARM




STROBE:
LED COOL



STROBE:
NTC

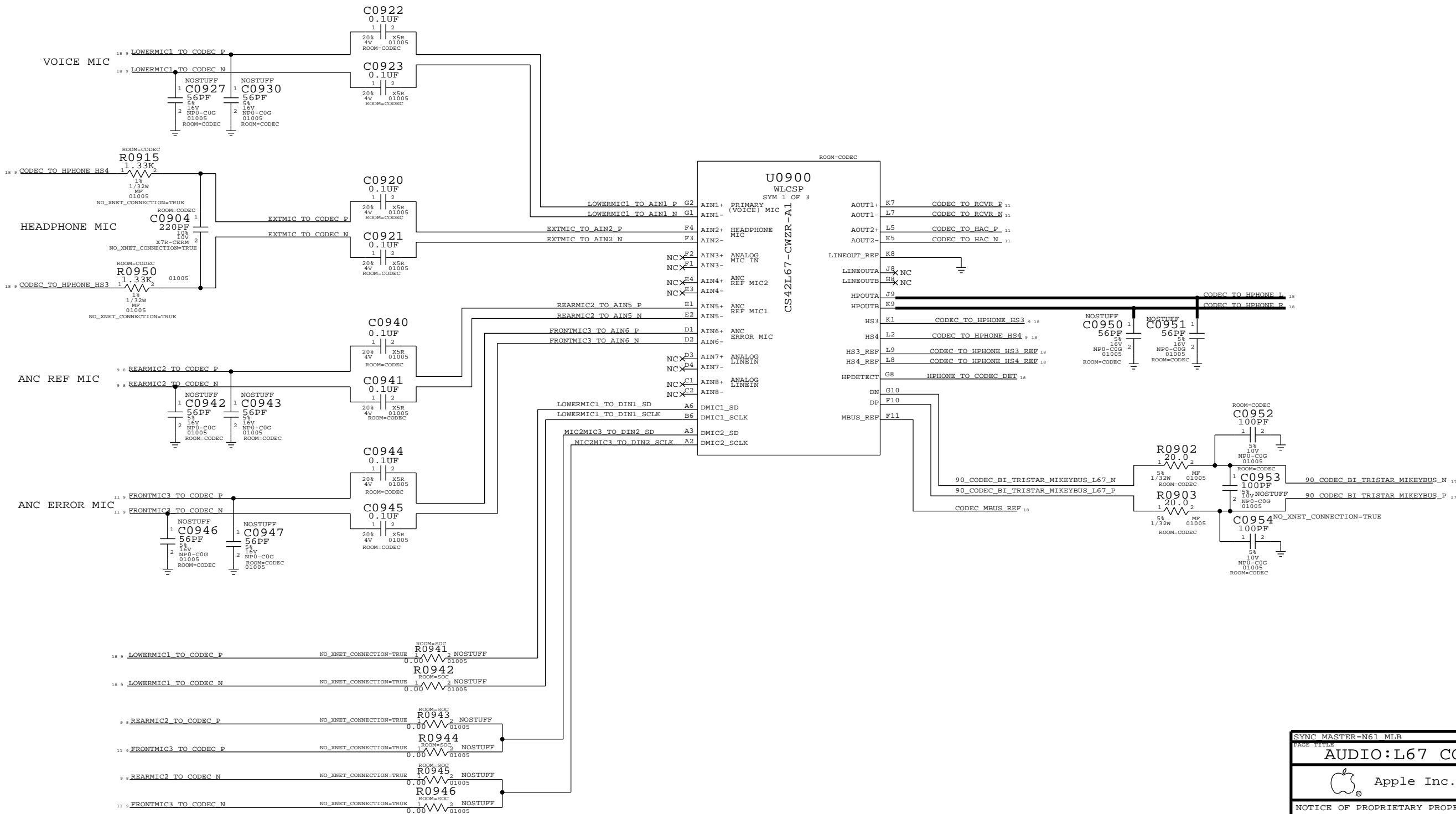



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
IO:BUTTON FLEX CONN			
 Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		PAGE	8 OF 55
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		SHEET	8 OF 54
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

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
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		PAGE	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		9 OF 55	
II NOT TO REPRODUCE OR COPY IT		SHEET	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		9 OF 54	
IV ALL RIGHTS RESERVED			

D

C

B

A



D

ROOM=CODE

A1
C5
B1
F9
D5
D7
E5
E6
E7
F5
F6
F7
F8
G7
H3
H4
J3
J4



B

A

FRONT CAM FLEX B2B

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

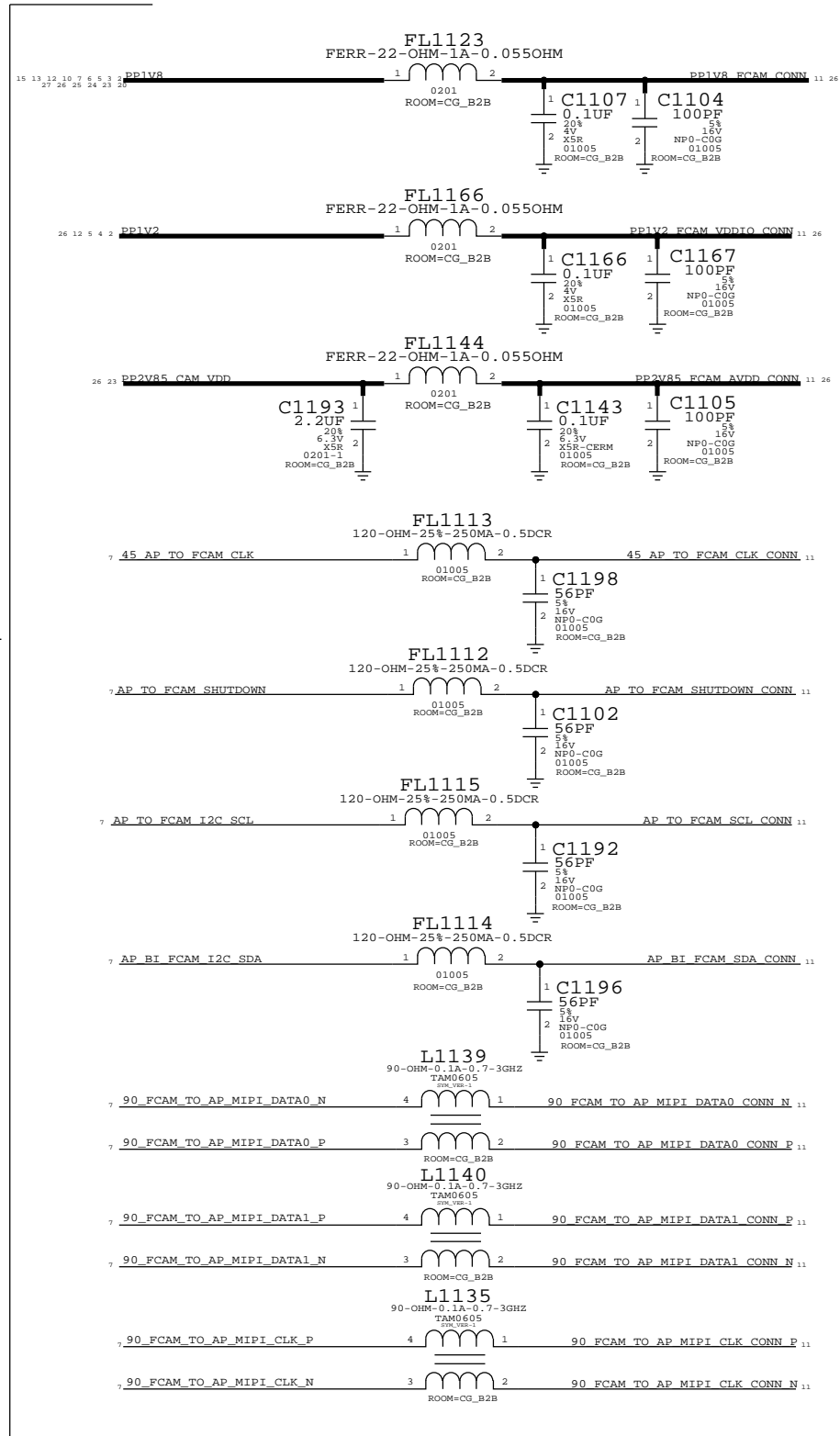
D

C

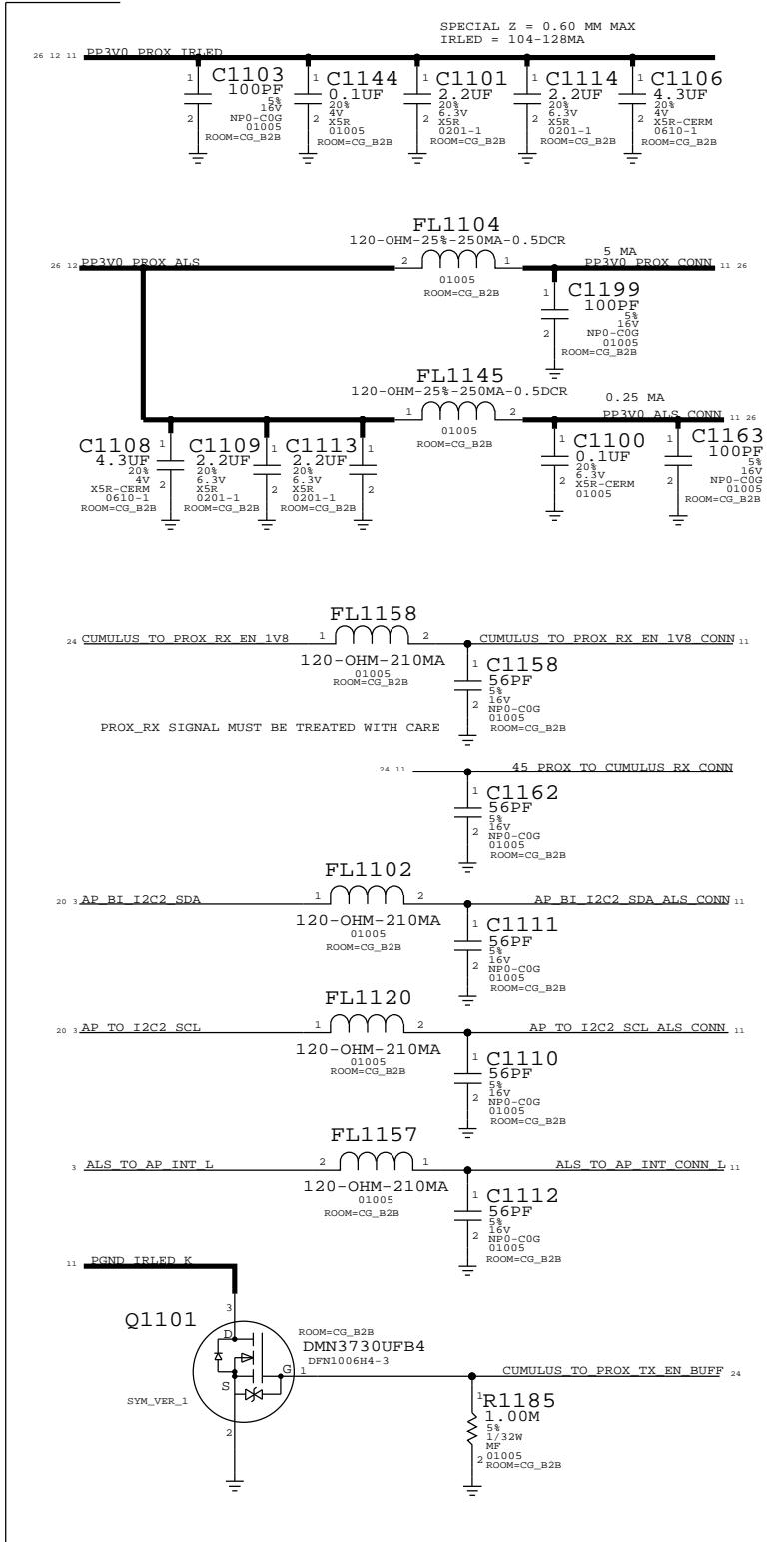
CAMERA

B

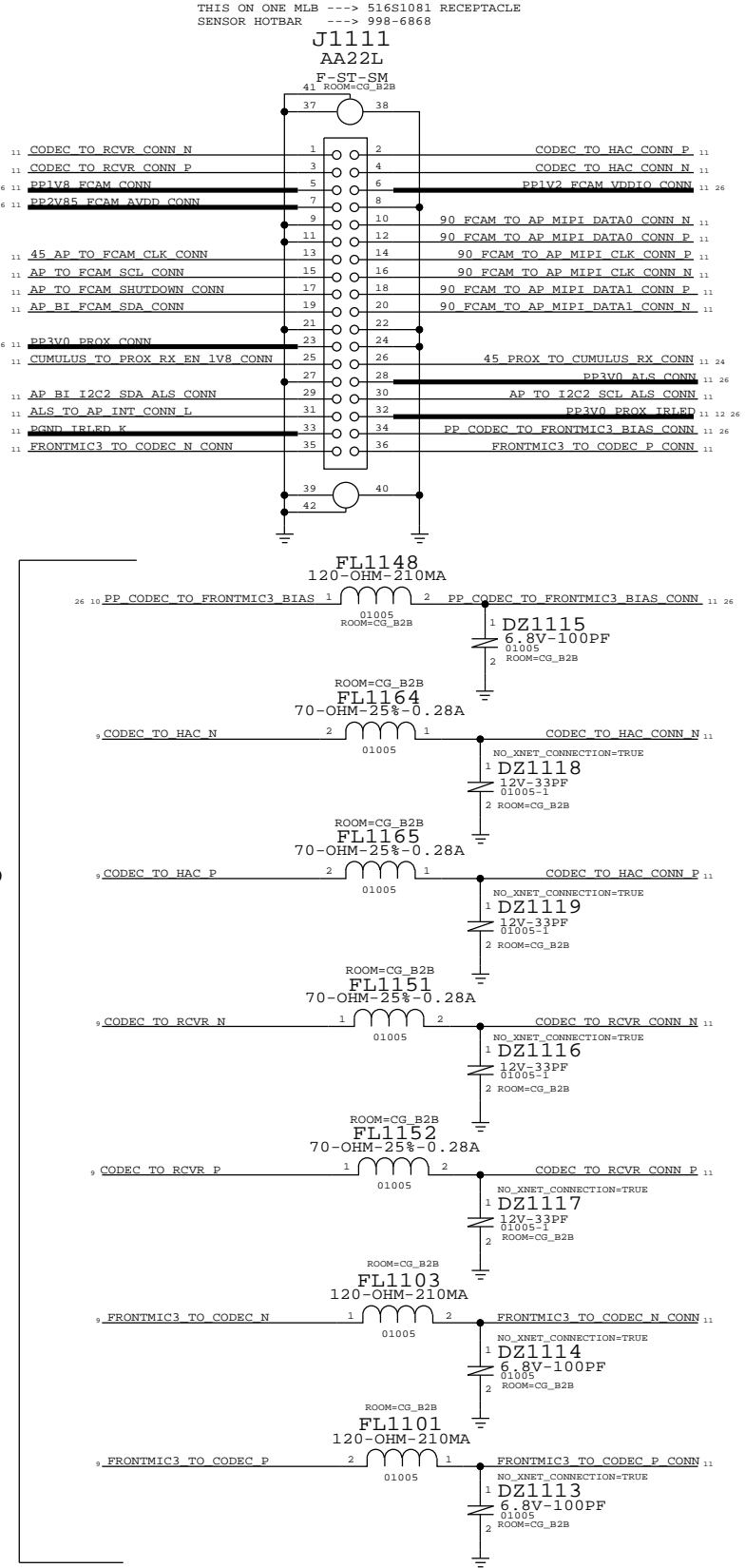
A




ALS,
PROX

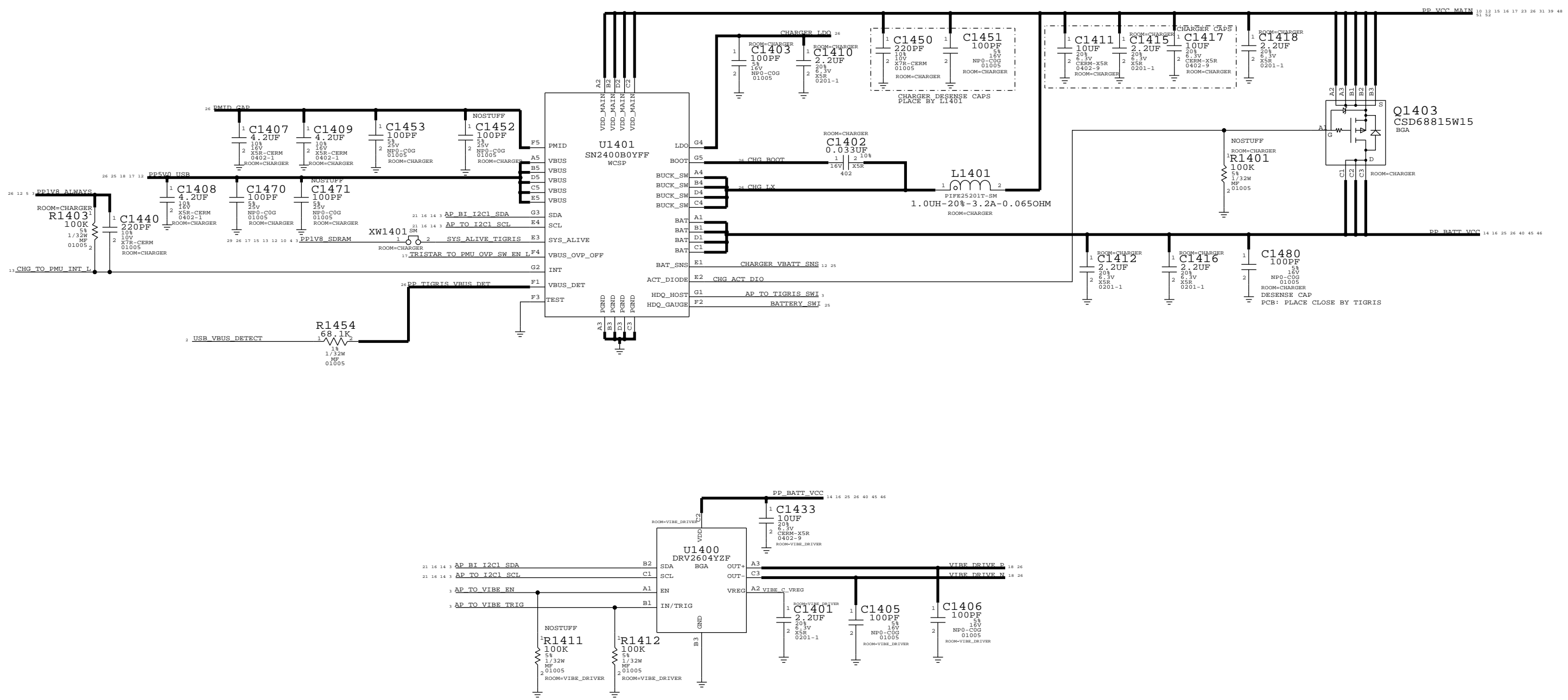



AUDIO



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
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		PAGE	11 OF 55
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		SHEET	11 OF 54
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

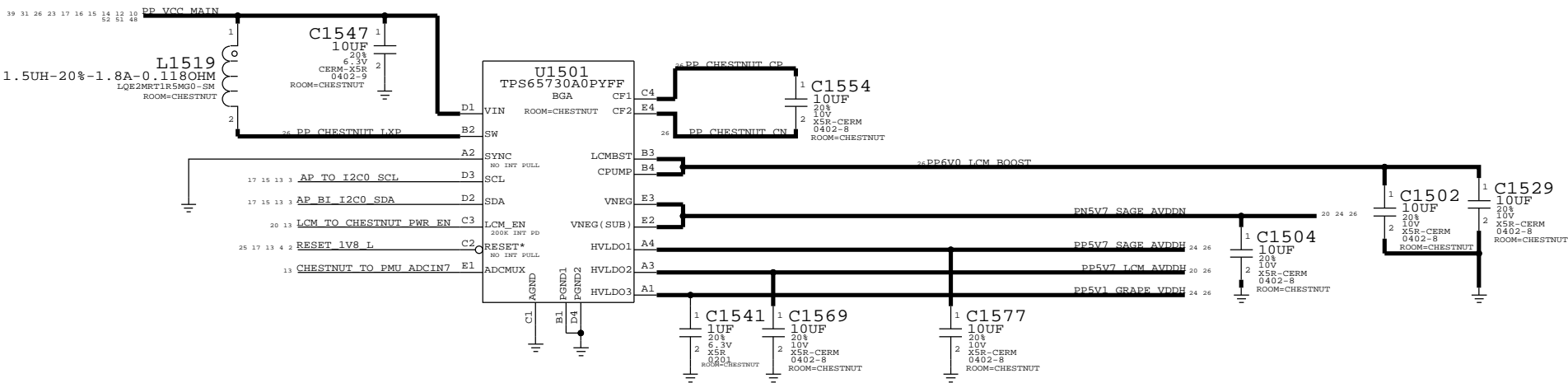
TIGRIS CHARGER & VIBE DRIVER



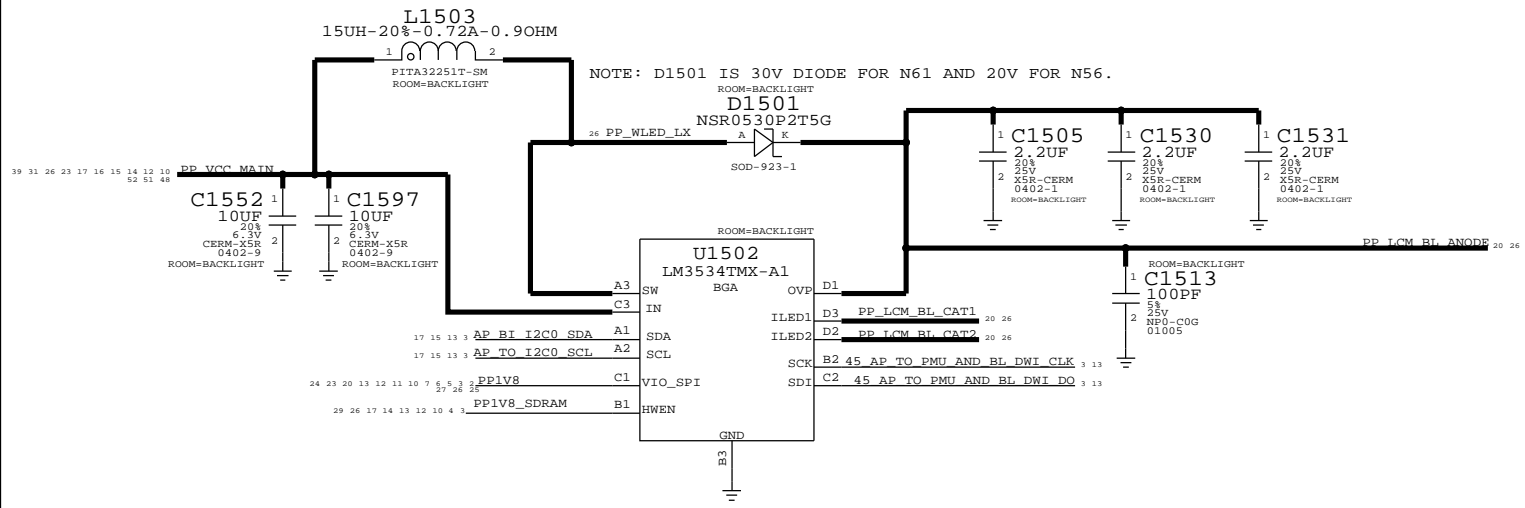
PAGE TITLE		
POWER:TIGRISR,VIBE DRIVER		
 Apple Inc.	DRAWING NUMBER	051-9903
	REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY:		
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		
II NOT TO REPRODUCE OR COPY IT		
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		
IV ALL RIGHTS RESERVED		
PAGE	14 OF 55	
SHEET	14 OF 54	

CHESTNUT, BACKLIGHT DRIVER, MESA BOOST

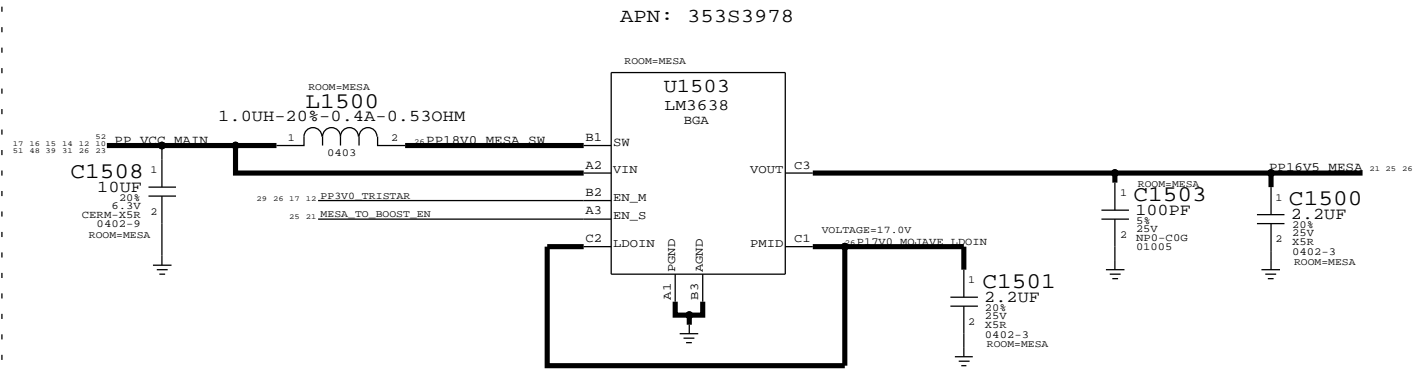
D500 DISPLAY PMU (TI CHESTNUT, 338S1149)



D500 BACKLIGHT DRIVER



MESA BOOST A0




PAGE TITLE		PAGE NUMBER	
DISPLAY:CHESTNUT, BACKLIGHT DRIVER		051-9903	
Apple Inc.		7.0.0	
NOTICE OF PROPRIETARY PROPERTY:		15 OF 55	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		15 OF 54	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE			
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

D

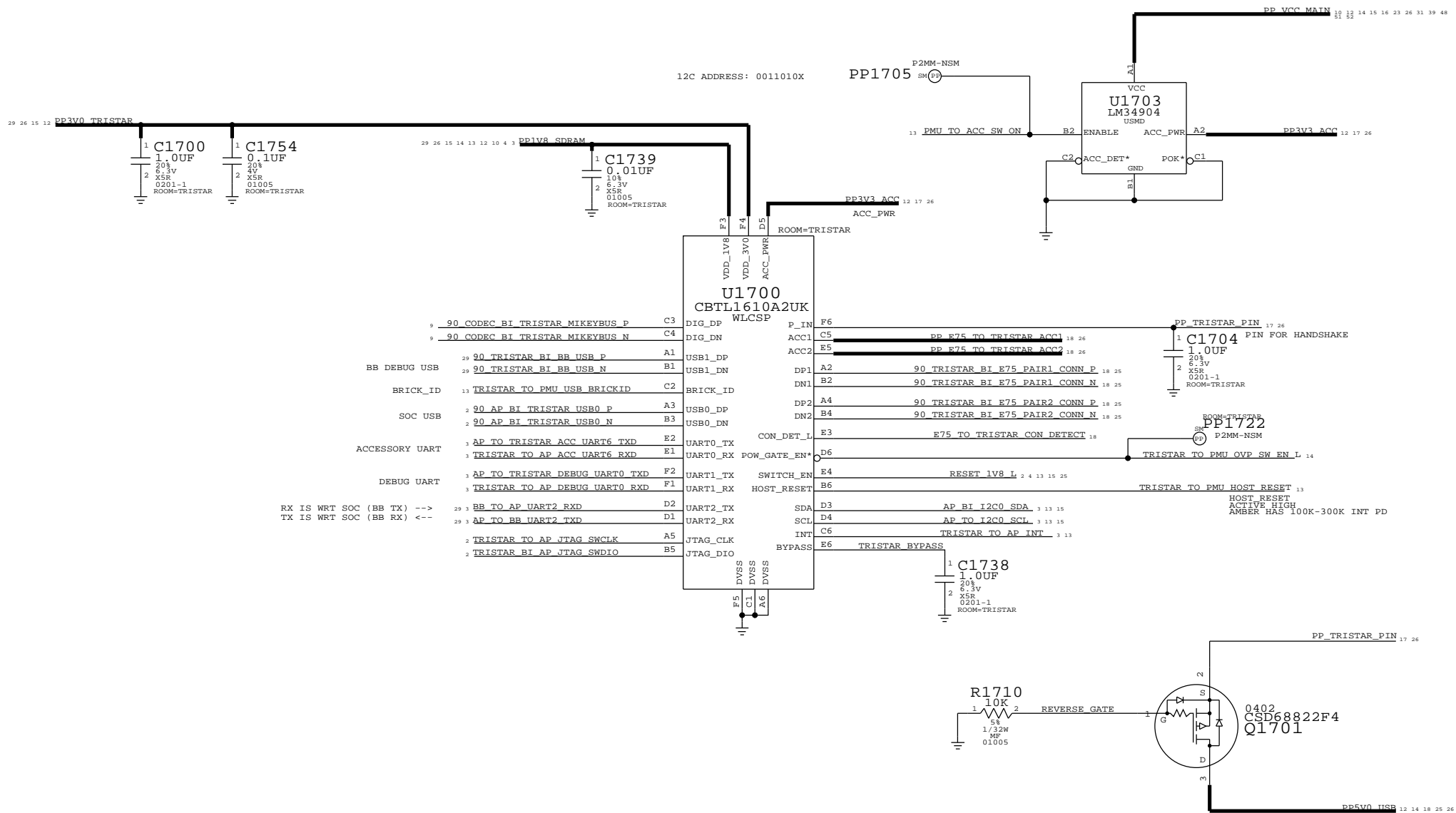
C

B

A

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
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		PAGE	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		16 OF 55	
II NOT TO REPRODUCE OR COPY IT		SHEET	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		16 OF 54	
IV ALL RIGHTS RESERVED			

TRISTAR2



PAGE TITLE		PAGE TITLE	
IO:TRISTAR2		IO:TRISTAR2	
Apple Inc.		Apple Inc.	
NOTICE OF PROPRIETARY PROPERTY:		NOTICE OF PROPRIETARY PROPERTY:	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE	
II NOT TO REPRODUCE OR COPY IT		II NOT TO REPRODUCE OR COPY IT	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART	
IV ALL RIGHTS RESERVED		IV ALL RIGHTS RESERVED	

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

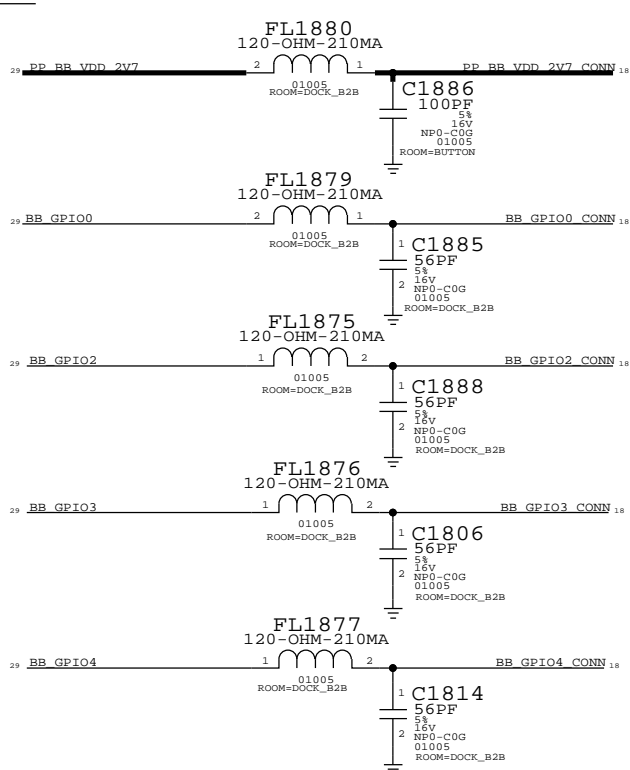
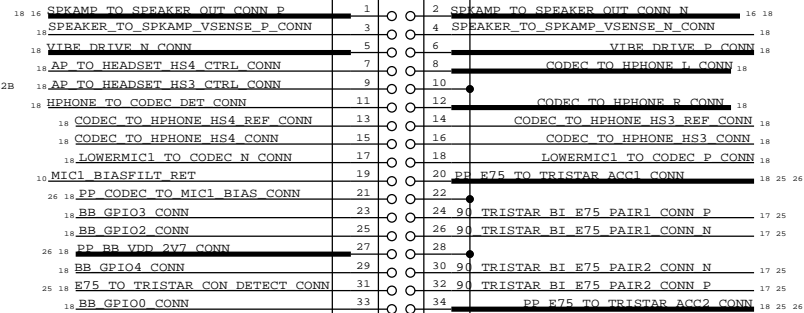
SPEAKER:
LEADS,
VSENSE

TRISTAR

USB
VBUS

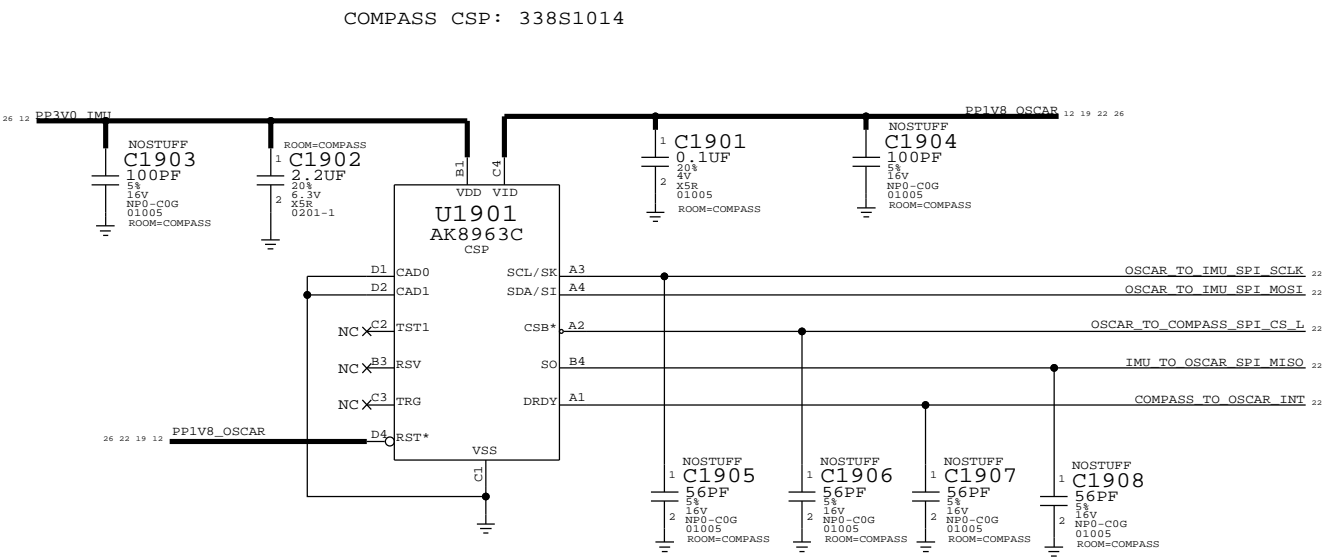
ANTENNA

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
Apple Inc.		REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		PAGE	18 OF 55
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		SHEET	18 OF 54
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

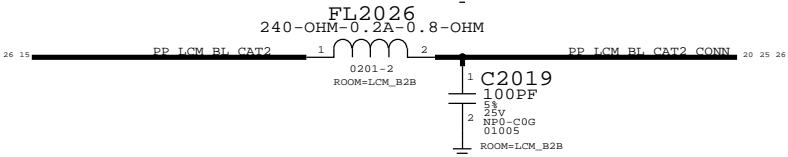
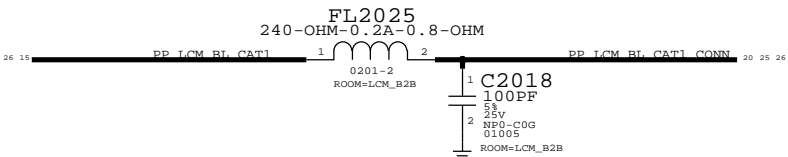
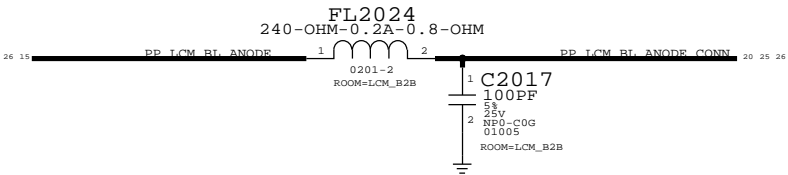
COMPASS - AKM COMPASS IN POR LOCATION



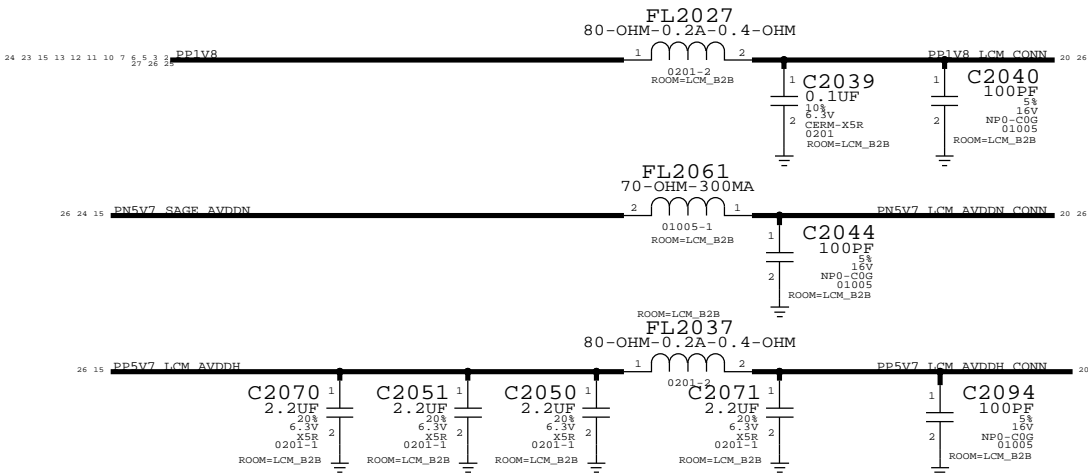
LCD B2B

Backlight

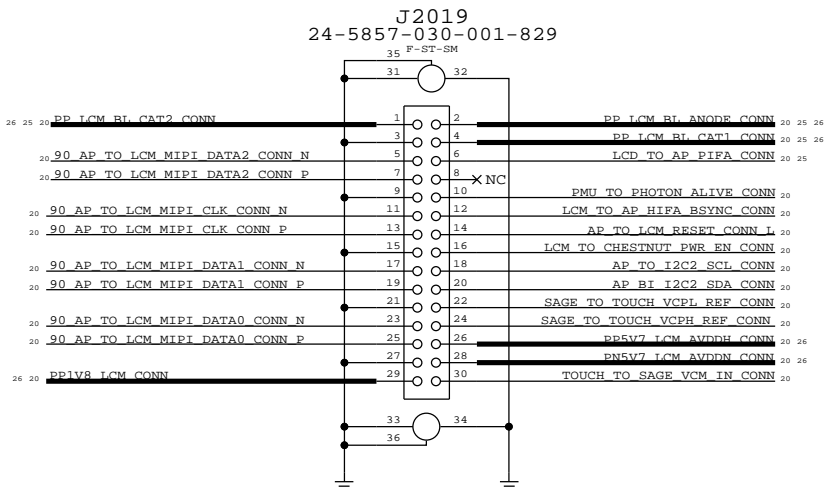
(N56 HAS A 2ND SET OF BL SIGNALS ON P. 19).



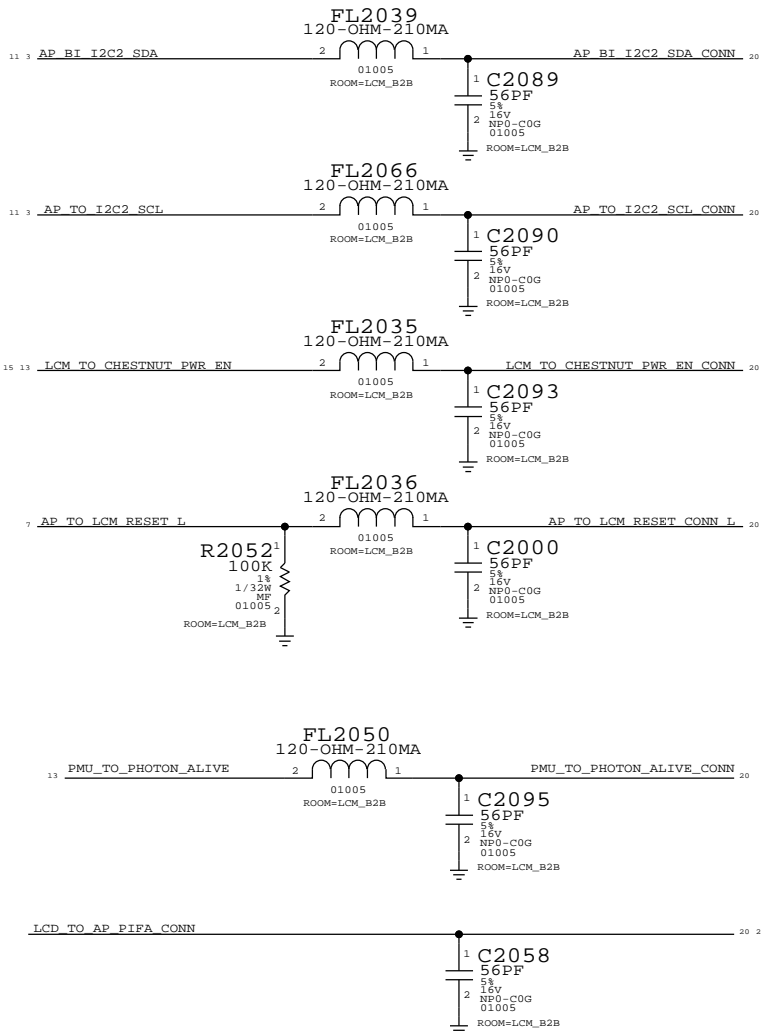
LCM Supplies



THIS ONE ON MLB ---> 516S1164

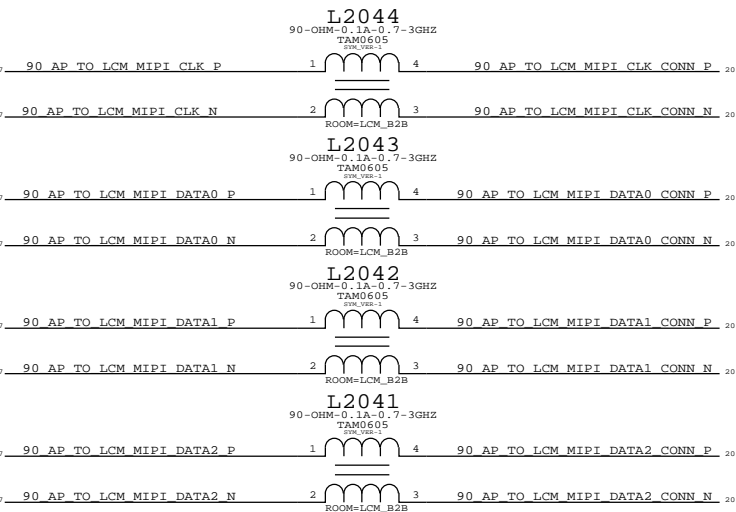


Digital Interfaces

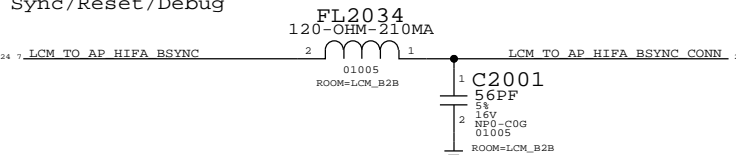


MIPI Common Mode Chokes

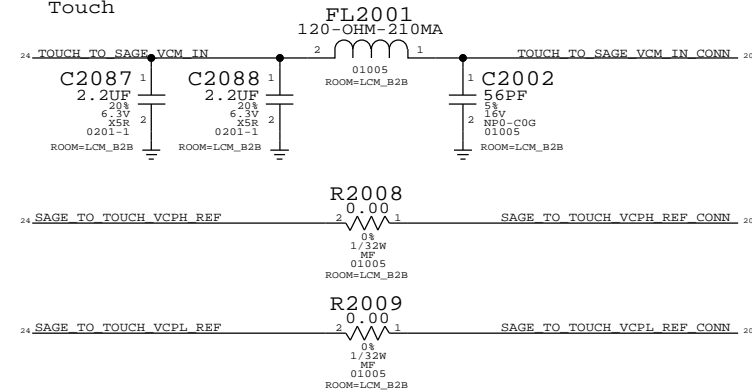
(N56 HAS A 4TH MIPI LANE ON P. 19).




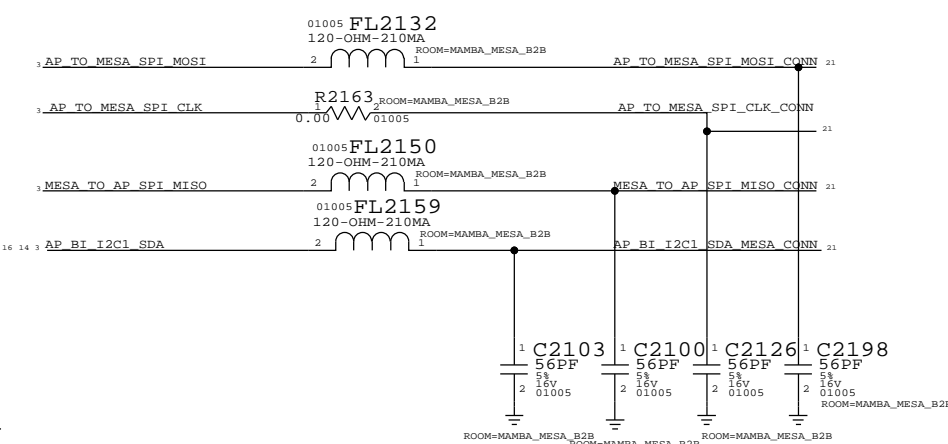
Sync/Reset/Debug




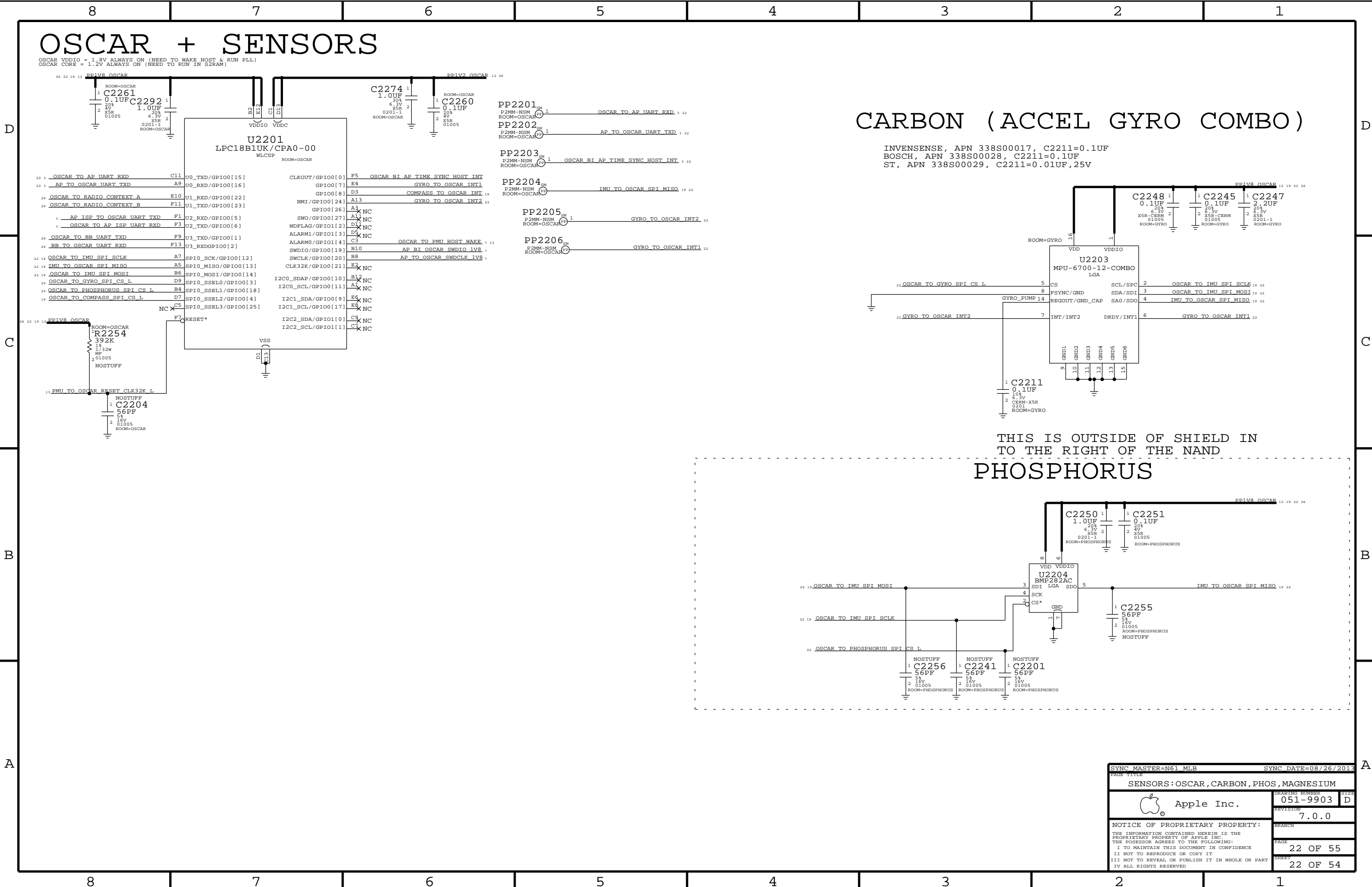
Touch




SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
DISPLAY:FLEX CONN			
 Apple Inc.		DRAWING NUMBER	051-9903
		SHEET	D
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		REVISION	7.0.0
		BRANCH	
		PAGE	20 OF 55
		SHEET	20 OF 54

[illegible]

PAGE TITLE		DRAWING NUMBER		SIZE
SENSORS:MESA FLEX CONN		051-9903		D
 Apple Inc.		REVISION		
		7.0.0		
NOTICE OF PROPRIETARY PROPERTY:		BRANCH		
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.		PAGE		
THE POSSESSOR AGREES TO THE FOLLOWING:		21 OF 55		
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE				
I I NOT TO REPRODUCE OR COPY IT				
I I NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		SHEET		
I I ALL RIGHTS RESERVED		21 OF 54		



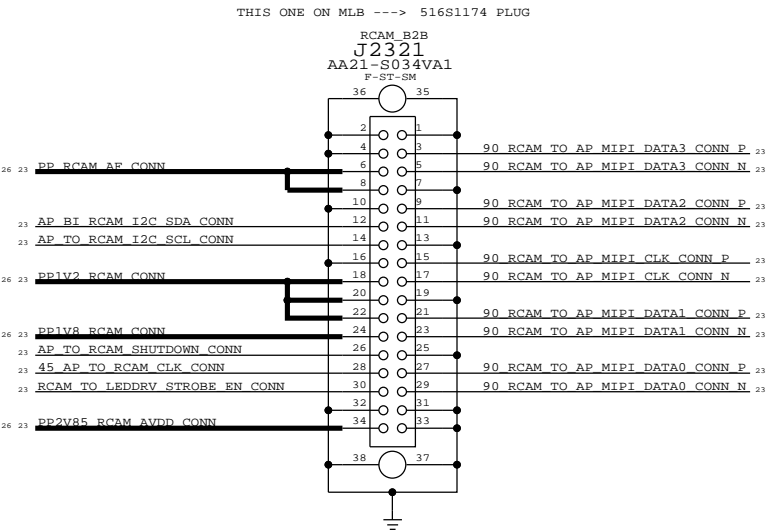
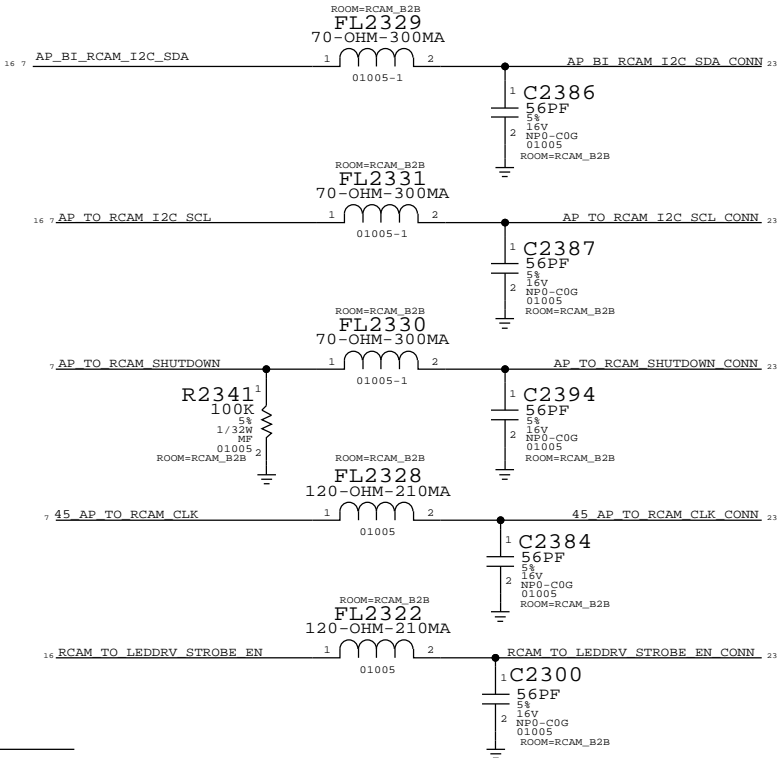
SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
SENSORS : OSCAR, CARBON, PHOS, MAGNESIUM			
 Apple Inc.	DRAWING NUMBER		051-9903
	REVISION		7.0.0
	BRANCH		
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED			
PAGE		22 OF 55	
SHEET		22 OF 54	

RCAM B2B (REAR CAMERA CONNECTOR)

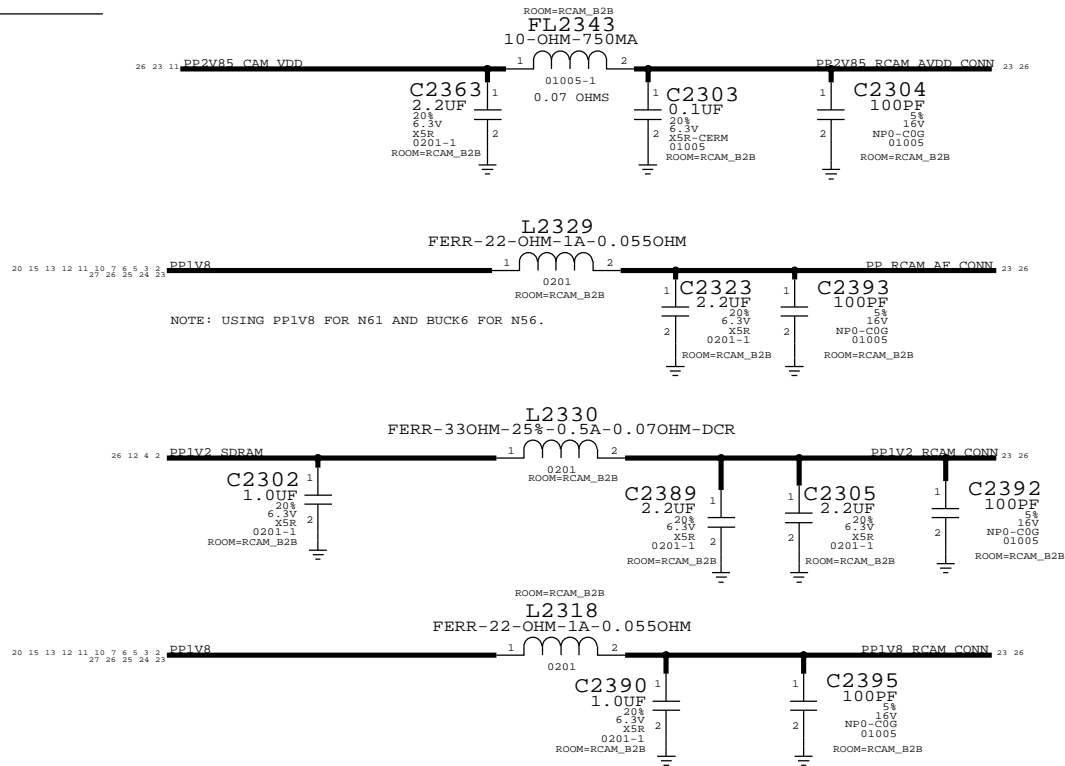
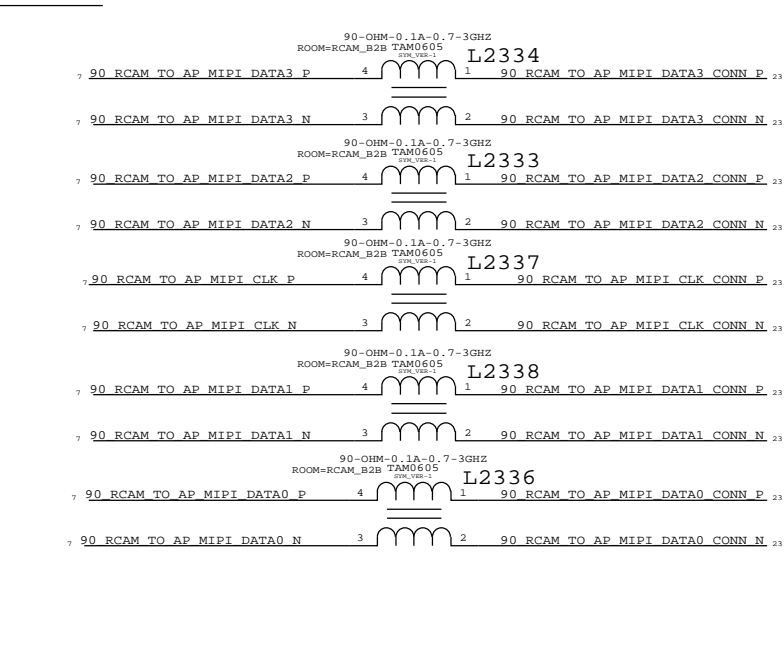
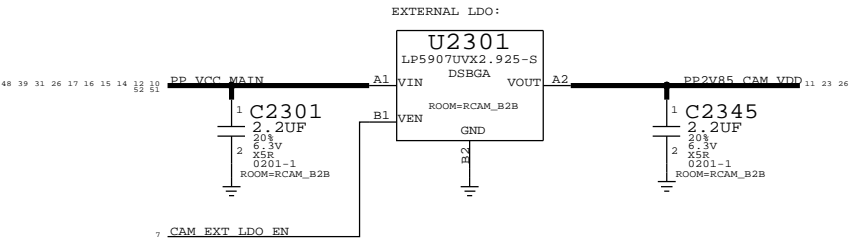
RCAM:
4-LANE MIPI


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:



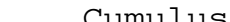
SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE			
CAMERA:REAR FLEX CONN			
 Apple Inc.		DRAWING NUMBER	
		051-9903	
		REVISION	
		7.0.0	
NOTICE OF PROPRIETARY PROPERTY:			
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:			
I I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE			
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			
		BRANCH	
		PAGE	
		23 OF 55	
		SHEET	
		23 OF 54	

D

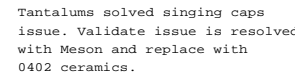
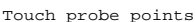


R

A



APN: 343S0638



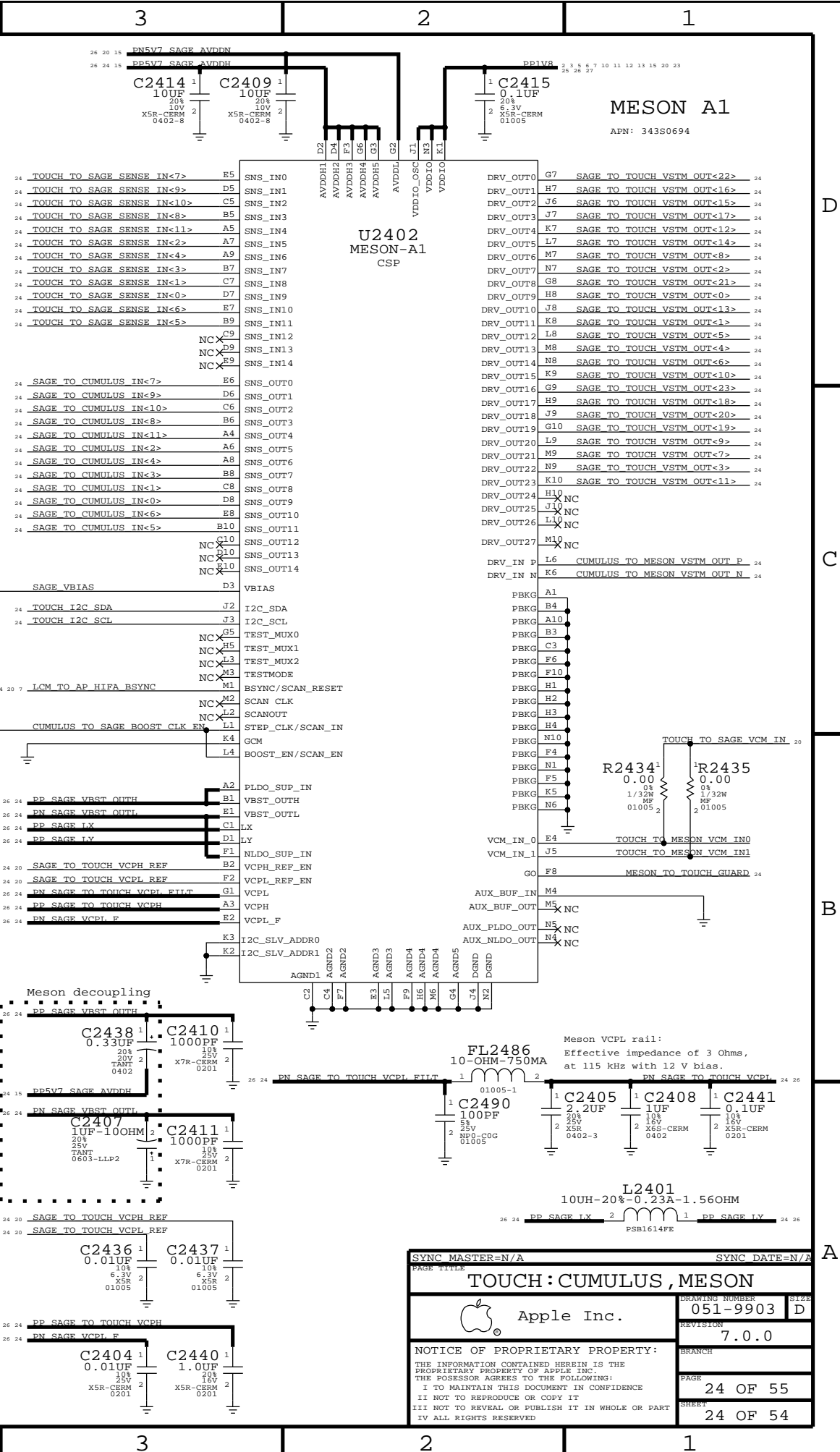
3.3V

1.8k 1/32W MF 01005 R2420


1.8k 1/32W MF 01005 R2421

24 TOUCH I2C SDA

24 TOUCH I2C SCL



APN: 343S0694

SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE TITLE			
TOUCH : CUMULUS , MESON			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-9903		D
REVISION		7.0.0	
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: 1 TO MAINTAIN THIS DOCUMENT IN CONFIDENCE 2 NOT TO REPRODUCE OR COPY IT 3 NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART 4 ALL RIGHTS RESERVED		PAGE	
		24 OF 55	
		SHEET	
		24 OF 54	


8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---




VOLTAGE PROPERTIES

PP3V3 USB	3 12	PP LED DRV LX	14
PP1V8 VA I19 I67	10 12 16	PP LED BOOST OUT	16
PP3V0 TRISTAR	12 16 17 29		
PP3V0 IMU	12 19	PP2V9 LDO9	12
PP3V0 NAND	6 12		
PP3V3 ACC	12 17	PP CODEC TO MIC1 BIAS CONN	18
PP1V0 PROX ALS	11 12	PP E75 TO TRISTAR ACC2	17 18
		PP E75 TO TRISTAR ACC2 CONN	18 26
PP VCC MAIN	10 12 14 15 16 17 23 31 39	PP1V8 LCM CONN	20
PP1V0	7 12	PP LCM BL ANODE CONN	20 25
PP3V0 PROX TRIED	11 12	VOLTAGE=-5.7V	PP5V7 LCM AVDDN CONN
PP1V8 ALWAYS	1 5 12 14	PP5V7 LCM AVDDH CONN	20
PP3V0 MESA	12 21		
PP CPU	4 12	VOLTAGE=1.8V	PP1V8 MESA
PP GPU	4 12	VOLTAGE=16.5V	PP16V5 MESA CONN
PP1V2 SDRAM	2 4 12 23	VOLTAGE=5.0V	PP TRISTAR PIN
PP1V8 SDRAM	3 4 10 12 13 14 15 17 29		
PP1V8	2 4 5 7 10 11 12 13 15 20 23		
PP1V8 GRAPE	12 24		
PP1V8 OSCAR	12 19 22		
PP1V2 NAND VDDT	6		
PP EXTMIC BIAS FILT IN	10		
BOARD ID2	3 27		
PP1V2	2 4 5 11 12	VOLTAGE=1.2V	PP1V2 RCAM CONN
PP E75 TO TRISTAR ACC1 CONN	18 26	VOLTAGE=1.8V	PP1V8 RCAM CONN
PP E75 TO TRISTAR ACC1	17 18		
PP LCM BL ANODE	15 20	VOLTAGE=3.0V	PP2V85 CAM VDD
PP LCM BL CAT2	15 20	VOLTAGE=1.8V	PP2V85 RCAM AVDD CONN
PP LCM BL CAT1	15 20	VOLTAGE=1.8V	PP CUMULUS VDDCORE
PP LCM BL CAT2 CONN	20 25	VOLTAGE=1.2V	PP CUMULUS VDDANA
PP LCM BL CAT1 CONN	20 25	VOLTAGE=13.5V	PP SAGE TO TOUCH VCPH CONN
		VOLTAGE=-12V	PP SAGE TO TOUCH VCPH CONN
		VOLTAGE=13.5V	PP SAGE TO TOUCH VCPH
		VOLTAGE=-12V	PP SAGE TO TOUCH VCPH
PP5V7 SAGE AVDDN	15 20 24		
PP1V2 OSCAR	12 22	VOLTAGE=-12V	PP SAGE VCPH F
PP3V0 MESA CONN	21	VOLTAGE=5.7V	PP SAGE LX
PP6V0 LCM BOOST	16	VOLTAGE=17.0V	PP SAGE LX
PP STRB_DRIVER_TO_LED_WARM	9 16		
PP STRB_DRIVER_TO_LED_COOL	8 16		
		VOLTAGE=1.8V	PP PMU VREF
		VOLTAGE=14V	PP_SAGE_VBST_OUTH
VOLTAGE=1.8V	PP CODEC TO MIC1 BIAS	VOLTAGE=5.0V	PP TIGRIS VBUS_DET
VOLTAGE=1.8V	PP EXTMIC BIAS IN		
VOLTAGE=1.8V	PP EXTMIC BIAS FILT	PP1V8 PLL	
VOLTAGE=1.8V	PP CODEC TO FRONTMIC3 BIAS	PP_MIP1OD_VREG	
VOLTAGE=1.8V	PP_CODEC_TO_REARMIC2_BIAS	BOARD_ID0	
VOLTAGE=1.8V	PP CODEC FILT+	VOLTAGE=2.5V	PP PMU VDD REF
VOLTAGE=2.2V	PP CODEC SPKR VO	VOLTAGE=1.8V	PP EXTMIC BIAS
VOLTAGE=2.5V	PP CODEC VCPH1LT	VOLTAGE=1.8V	PP1V8 XTAL
VOLTAGE=2.5V	PP CODEC VCPH1LT+	VOLTAGE=1.8V	PP PMU VDD_RTC
VOLTAGE=2.5V	PP CODEC VHP ELYN		
VOLTAGE=0.2V	PP CODEC VHP ELYN	VOLTAGE=4.6V	PP BATT_VCC
VOLTAGE=2.5V	PP CODEC VHP ELYP	VOLTAGE=1.8V	PP1V8 MESA CONN
VOLTAGE=1.8V	PP1V8 RCAM CONN	VOLTAGE=3.0V	PP3V0 PROX CONN
VOLTAGE=3.0V	PP2V85 RCAM AVDD CONN		
VOLTAGE=1.8V	PP CODEC TO FRONTMIC1 BIAS		
VOLTAGE=3.0V	PP3V0 ALS CONN	VOLTAGE=1.0V	PP0V95 FIXED SOC
VOLTAGE=1.2V	PP1V2 RCAM VDDIO CONN	VOLTAGE=1.0V	PP0V95 FIXED SOC RCIE
VOLTAGE=5.0V	PP5V0 USB	VOLTAGE=1.2V	PP1V2 PLL
VOLTAGE=5.0V	PP5V0 USB TO PMU	VOLTAGE=1.0V	PP BUCK5 LX1
VOLTAGE=4.6V	PP BUCK5 LX0	VOLTAGE=1.0V	PP VAR SOC
VOLTAGE=4.6V	PP BUCK3 LX		
VOLTAGE=4.6V	PP BUCK4 LX		
VOLTAGE=4.6V	PP BUCK2 LX	VOLTAGE=5.0V	PMID_CAP
VOLTAGE=4.6V	PP BUCK1 LX1	VOLTAGE=5.0V	CHARGER_LDO
VOLTAGE=4.6V	PP BUCK1 LX0	VOLTAGE=4.6V	CHG_BOOT
VOLTAGE=4.6V	PP BUCK0 LX3	VOLTAGE=4.6V	CHG_LX
VOLTAGE=4.6V	PP BUCK0 LX2		
VOLTAGE=4.6V	PP BUCK0 LX1	VOLTAGE=3.0V	VIBR_DRIVE_P
VOLTAGE=4.6V	PP BUCK0 LX0	VOLTAGE=3.0V	VIBR_DRIVE_N
VOLTAGE=6.0V	PP_CHESTNUT_LXP		
VOLTAGE=6.0V	PP_CHESTNUT_CP		
VOLTAGE=6.0V	PP_CHESTNUT_CN	VOLTAGE=1.8V	PP RCAM AE CONN
VOLTAGE=5.7V	PP5V7 SAGE AVDDH	VOLTAGE=-14.0V	PP SAGE_VBST_OUTH
VOLTAGE=5.7V	PP5V7 LCM AVDDH	VOLTAGE=-12.0V	PP SAGE TO TOUCH VCPH FILT
VOLTAGE=5.1V	PP5V1 GRAPE VDDH		
VOLTAGE=22.0V	PP WLED LX	VOLTAGE=2.7V	PP_BB_VDD_2V7 CONN
VOLTAGE=18.0V	PP18V0 MESA SW		
VOLTAGE=17.0V	PP17V0 MOTIVE JPOIN		
VOLTAGE=16.5V	PP16V5 MESA		
VOLTAGE=8.0V	PP_SPKAMP_SW		
VOLTAGE=8.0V	PP I19 VBOOST		
VOLTAGE=1.8V	PP_SPKAMP_FILT		
VOLTAGE=1.8V	PP_SPKAMP_LDO_FILT		

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

PAGE TITLE		
SYSTEM:VOLTAGE PROPERTIES		
 Apple Inc.	DRAWING NUMBER	051-9903
	REVISION	7.0.0
	NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	
PAGE		26 OF 55
SHEET		26 OF 54

8	7	6	5	4	3	2	1
D							D
C							C
B							B
A							A
8	7	6	5	4	3	2	1

PAGE TITLE		BLANK	
 Apple Inc.	DRAWING NUMBER	051-9903	SIZE
	REVISION	7.0.0	D
	NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH
		PAGE	28 OF 55
		SHEET	28 OF 54

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
17	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
3	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	I345	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	I348	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

PAGE TITLE	
CELL:ALIASES	
 Apple Inc.	DRAWING NUMBER
	051-9903
	REVISION
	7.0.0
NOTICE OF PROPRIETARY PROPERTY:	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE	
II NOT TO REPRODUCE OR COPY IT	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART	
IV ALL RIGHTS RESERVED	
PAGE	30 OF 55
SHEET	29 OF 54

AP INTERFACE & DEBUG CONNECTORS

PROBE POINTS

PP3105_RF	P2MM	SM 1	CLK32K_AP	29 51
PP3113_RF	P4MM	SM 1	BB_COEX_UART_RXD	35 51
PP3114_RF	P4MM	SM 1	BB_COEX_UART_TXD	35 51
PP3119_RF	P2MM	SM 1	BT_UART_TXD	29 51
PP3120_RF	P2MM	SM 1	BT_UART_RXD	29 51
PP3152_RF	P2MM	SM 1	WAKE_BT	29 51
PP3153_RF	P2MM	SM 1	WLAN_REG_ON	29 51
PP3154_RF	P4MM	SM 1	BT_REG_ON	29 51
PP3155_RF	P2MM	SM 1	HOST_WAKE_WLAN	29 51
PP3156_RF	P2MM	SM 1	WLAN_PCIE_WAKE_L	29 51
PP3157_RF	P2MM	SM 1	WLAN_PCIE_PERST_L	29 51
PP3158_RF	P2MM	SM 1	WLAN_PCIE_CLKREQ_L	29 51
PP3159_RF	P4MM	SM 1	PCIE_DEV_WAKE	29 51
PP3160_RF	P2MM	SM 1	WLAN_UART_RTS_L	29 51
PP3161_RF	P2MM	SM 1	WLAN_UART_CTS_L	29 51
PP3162_RF	P2MM	SM 1	WLAN_UART_RXD	29 51
PP3163_RF	P2MM	SM 1	WLAN_UART_TXD	29 51
PP3190_RF	P2MM	SM 1	WLAN_JTAG_SWDCCLK	29 51
PP3191_RF	P2MM	SM 1	WLAN_JTAG_SWDIO	29 51

PP3121_RF	P2MM	NSM	STOCKHOLM_HOST_WAKE	29 52
PP3122_RF	P4MM	SM 1	BB_REQUEST_XO_CLK	32 52
PP3123_RF	P2MM	NSM	STOCKHOLM_UART_RXD	29 52
PP3124_RF	P2MM	SM 1	STOCKHOLM_UART_TXD	29 52
PP3125_RF	P2MM	NSM	STOCKHOLM_CTS_L	29 52
PP3126_RF	P2MM	NSM	STOCKHOLM_RTS_L	29 52
PP3128_RF	P2MM	SM 1	PP_PN65_VCC_SIM	52
PP3174_RF	P4MM	SM 1	STOCKHOLM_SIM_SWP	52 54
PP3179_RF	P4MM	SM 1	REF_CLK_FROM_BB	32 52
PP3183_RF	P4MM	SM 1	DSDS_SIM_CLK	34 54
PP3184_RF	P4MM	SM 1	DSDS_SIM_RESET	34 54
PP3186_RF	P4MM	SM 1	DSDS_SIM_DETECT	34
PP3187_RF	P4MM	SM 1	PP_LDO6	31 33 54
PP3188_RF	P4MM	SM 1	DSDS_SIM_SWP	54
PP3189_RF	P4MM	SM 1	DSDS_SIM_DATA_R	54
PP 3178_RF	P2MM	NSM	BB_SIM_RESET	30 35
PP 3179_RF	P2MM	NSM	BB_SIM_CLK	30 35
PP 3180_RF	P2MM	NSM	BB_SIM_DATA	30 35
PP 3183_RF	P2MM	NSM	BB_SIM_DETECT	30 35
PP 3184_RF	P2MM	NSM	PP_LDO5	30 31 33 54

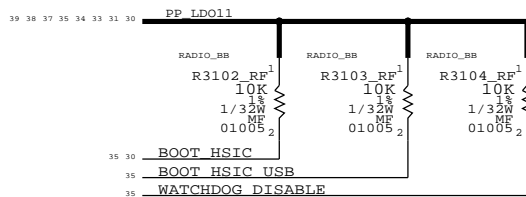
PP3115_RF	P4MM	NSM	50_BB_HSIC_STROBE	29 34
PP3116_RF	P4MM	NSM	50_BB_HSIC_DATA	29 34
PP3101_RF	P4MM	SM 1	BB_DEBUG_ERROR	35
PP3102_RF	P4MM	SM 1	RF_PMIC_RESET_L	29 32
PP3103_RF	P4MM	SM 1	PS_HOLD_PMIC	32
PP3127_RF	P4MM	SM 1	PMIC_RESOUT_L	32 34
PP3104_RF	P4MM	SM 1	MDM_CLK	32 34
PP3109_RF	P4MM	SM 1	PP_LDO11	30 31 33 34 35 37 38
PP3110_RF	P4MM	SM 1	RADIO_ON_L	29 32
PP3111_RF	P4MM	SM 1	SPMI_DATA	32 34
PP3112_RF	P4MM	SM 1	SPMI_CLK	32 34

PP3130_RF	P4MM	SM 1	BB_JTAG_RST_L	34
PP3131_RF	P4MM	SM 1	BB_JTAG_TCK	34
PP3132_RF	P4MM	SM 1	BB_JTAG_TMS	34
PP3133_RF	P4MM	SM 1	BB_JTAG_TDO	34
PP3134_RF	P4MM	SM 1	BB_JTAG_TDI	34
PP3135_RF	P4MM	SM 1	BB_JTAG_TEST_L	34
PP3136_RF	P4MM	SM 1	BB_DEBUG_STATUS	35
PP3137_RF	P4MM	SM 1	BB_CORE_DUMP	29 35
PP3138_RF	P4MM	SM 1	BB_USB_VBUS	29 34
PP3139_RF	P4MM	SM 1	90_BB_USB_N	29 34
PP3140_RF	P4MM	SM 1	90_BB_USB_P	29 34

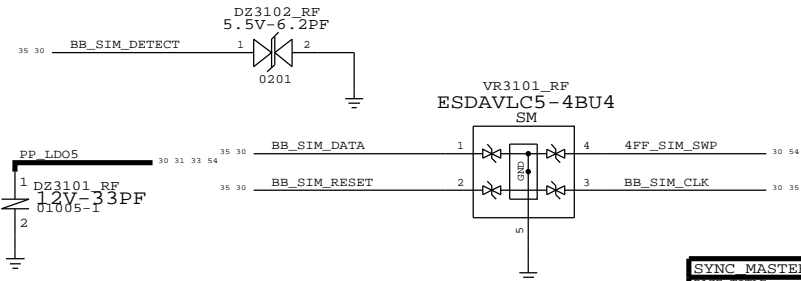
PP3141_RF	P4MM	SM 1	BB_UART_TXD	29 35
PP3142_RF	P4MM	SM 1	BB_UART_RXD	29 35
PP3143_RF	P4MM	SM 1	BB_UART_RTS_L	29 35
PP3144_RF	P4MM	SM 1	BB_UART_CTS_L	29 35
PP3145_RF	P4MM	SM 1	BB_HOST_RDY	29 35
PP3146_RF	P4MM	SM 1	BB_DEVICE_RDY	29 35
PP3147_RF	P4MM	SM 1	BB_GPS_SYNC	29 35
PP3148_RF	P4MM	SM 1	BB_WAKE_HOST_L	29 35
PP3149_RF	P4MM	SM 1	BB_RESET_DET_L	29 35
PP3150_RF	P4MM	SM 1	BB_RST_L	29 32
PP3151_RF	P4MM	SM 1	BOOT_HSIC	30 35

PP3170_RF	P4MM	SM 1	RFFE1_CLK	35 39 40 41 42 43 44
PP3171_RF	P4MM	SM 1	RFFE1_DATA	35 39 40 41 42 43 44
PP3172_RF	P4MM	SM 1	RFFE2_CLK	35 45 46 48
PP3173_RF	P4MM	SM 1	RFFE2_DATA	35 45 46 48
PP3175_RF	P4MM	SM 1	BB_I2S_WS	29 35
PP3176_RF	P4MM	SM 1	BB_I2S_RXD	29 35
PP3177_RF	P4MM	SM 1	BB_I2S_TXD	29 35
PP3178_RF	P4MM	SM 1	BB_OTHER_TXD	29 35
PP3179_RF	P4MM	SM 1	BB_OTHER_RXD	29 35

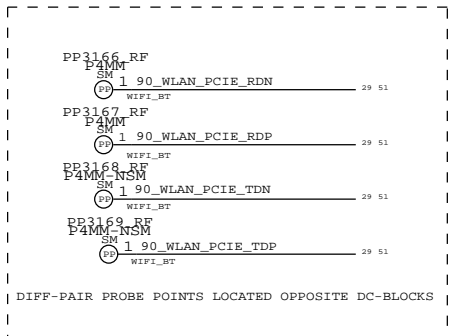
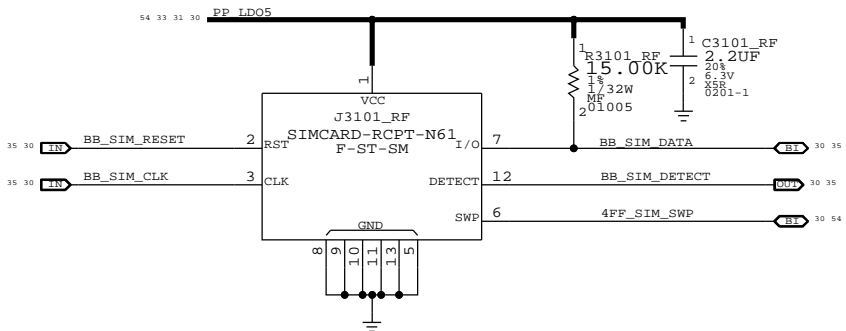
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0565	197S0593	ALTERNATE	Y3301_RF	KDS 19.2MHZ XTAL
197S0598	197S0593	ALTERNATE	Y3301_RF	AVX 19.2MHZ XTAL
138S00005	138S00003	ALTERNATE	C3216_RF	150F CAPACITOR
138S0739	138S0706	ALTERNATE	C4207_RF	1.00UF CAPACITOR
138S0945	138S0706	ALTERNATE	C4207_RF	1.00UF CAPACITOR
138S1103	138S0719	ALTERNATE	C4007_RF	4.7UF CAPACITOR
339S0231	339S0228	ALTERNATE	U5201_RF	CORONA MODULE USI
339S0242	339S0228	ALTERNATE	U5201_RF	CORONA MODULE TDK
155S00024	155S0950	ALTERNATE	F_TRI_RF	TRIPLEXER BIN2



SIM CARD ESD PROTECTION



SIM CARD CONNECTOR



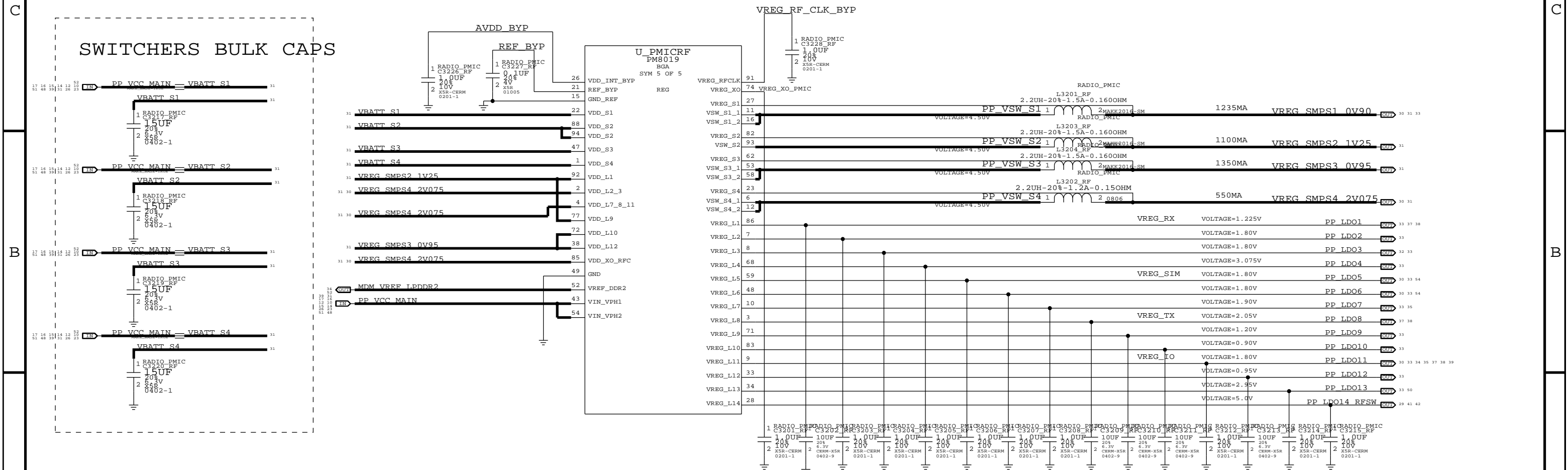
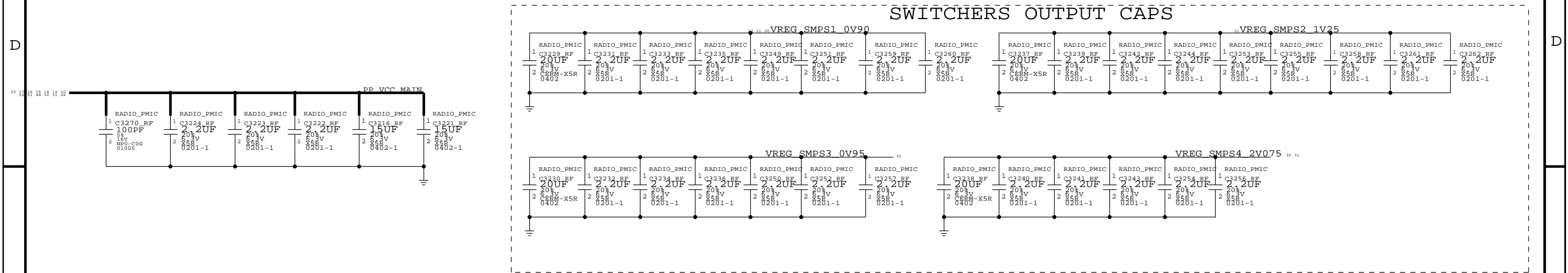
XW3101_RF	SHORT-10L-0.1MM-SM	ADC_SMPS1	29
PP_LDO11	SHORT-10L-0.1MM-SM	ADC_PP_LDO11	29
PP_LDO5	SHORT-10L-0.1MM-SM	ADC_PP_LDO5	29
XW3104_RF	SHORT-10L-0.1MM-SM	ADC_SMPS4	29

PAGE TITLE		SYNC DATE=N/A	
AP INTERFACE & DEBUG CONNECTORS		DRAWING NUMBER	051-9903
Apple Inc.		REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		PAGE	31 OF 55
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		SHEET	30 OF 54
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

BASEBAND PMU (1 OF 2)

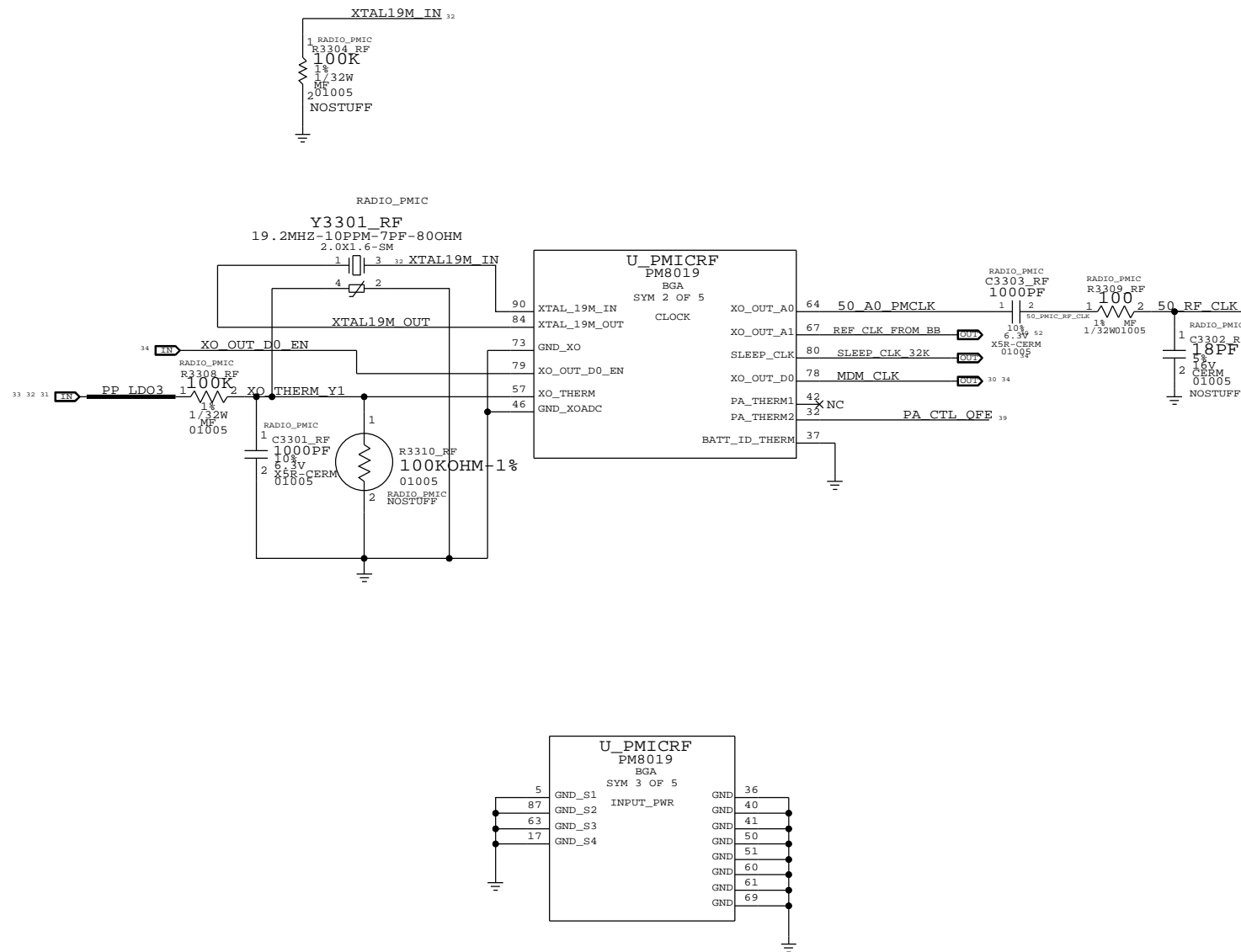
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

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



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

BOARD	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



BASEBAND (1 OF 3)

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

C538
R500
L500
U502

D

C

B

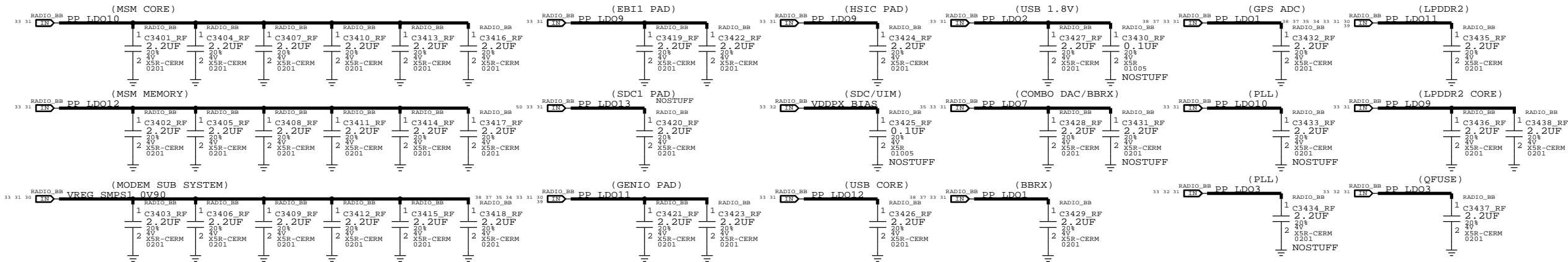
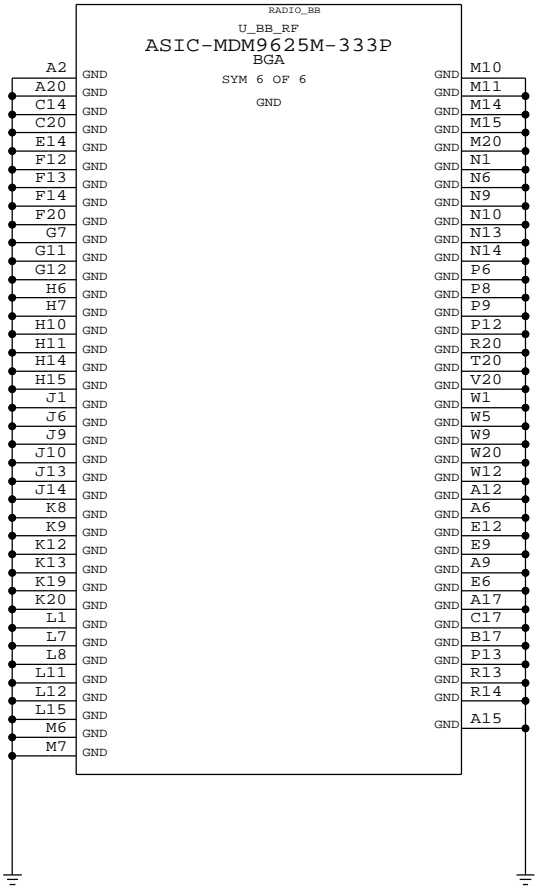
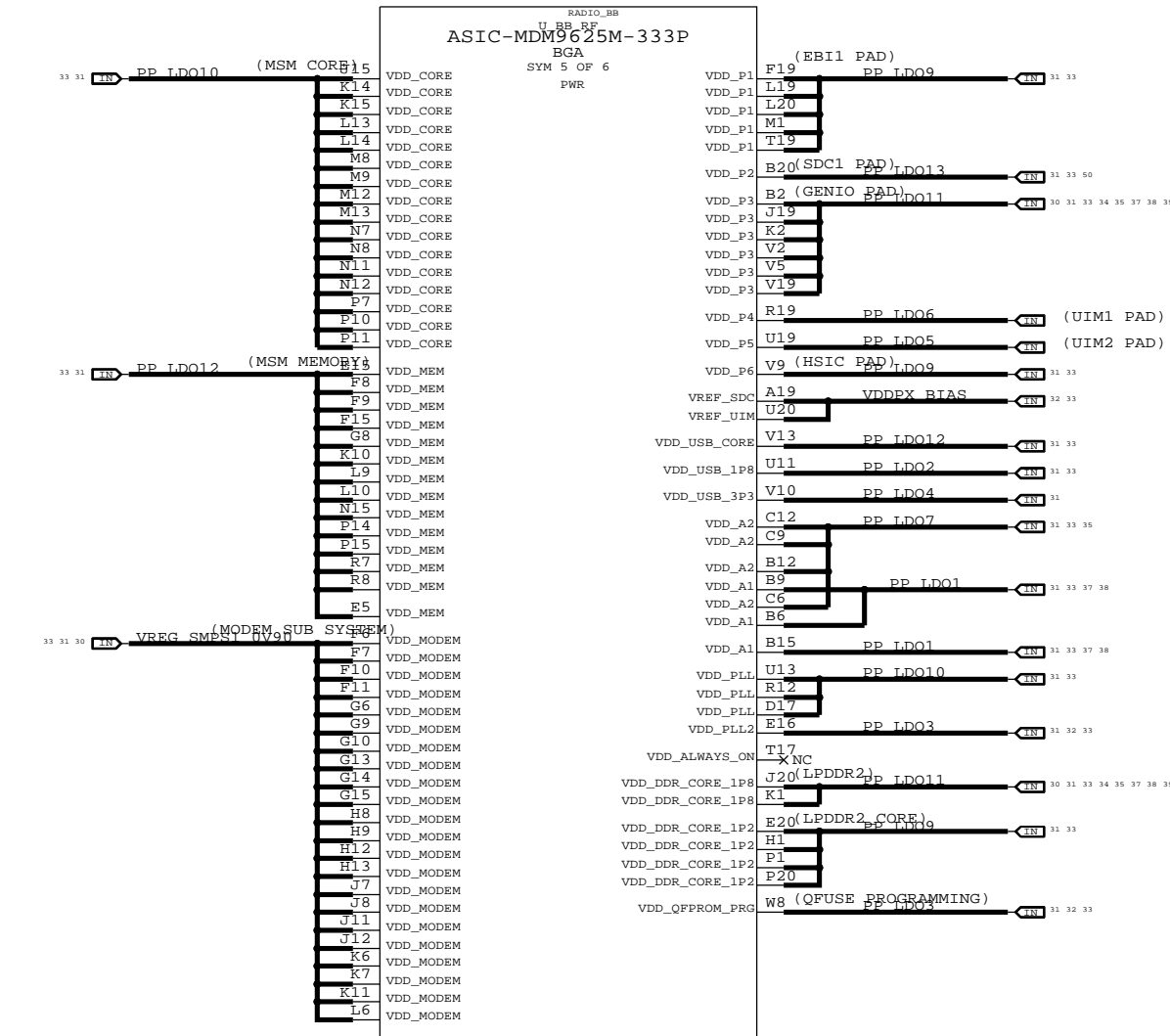
A


D

C

B

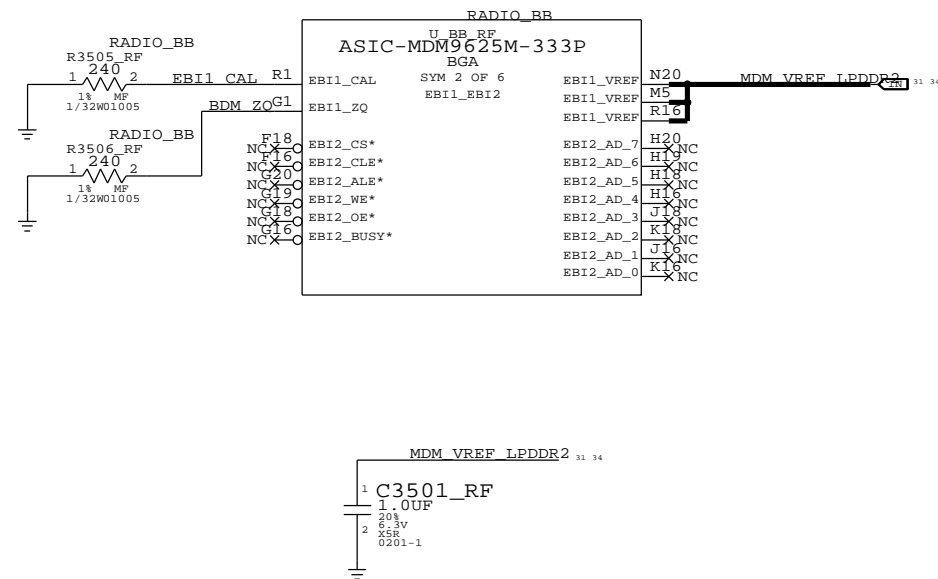
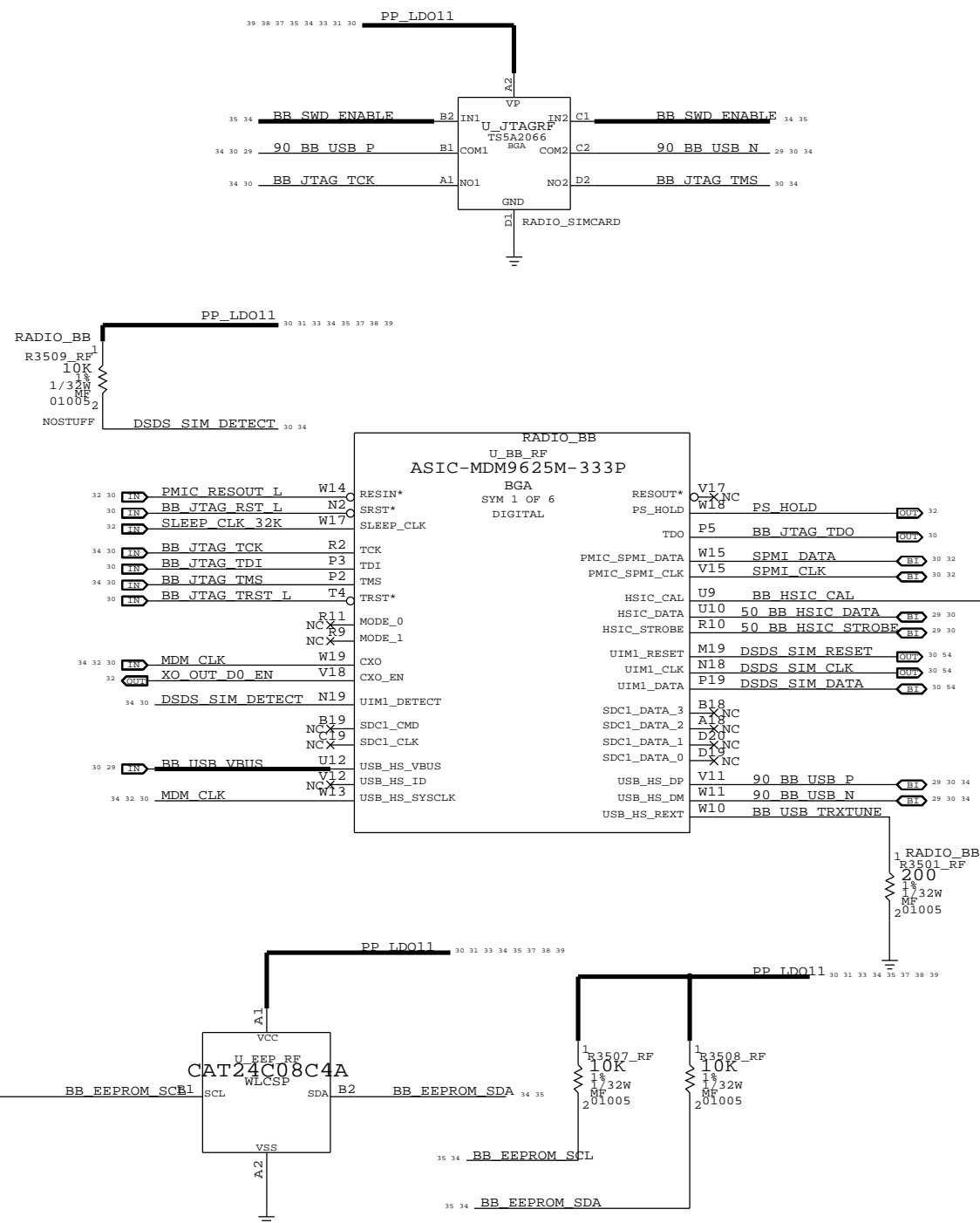
A



BASEBAND (1 OF 2)			
 Apple Inc.	DRAWING NUMBER	051-9903	SIZE
	REVISION	7.0.0	D
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH	
		PAGE	34 OF 55
		SHEET	33 OF 54

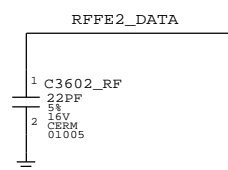
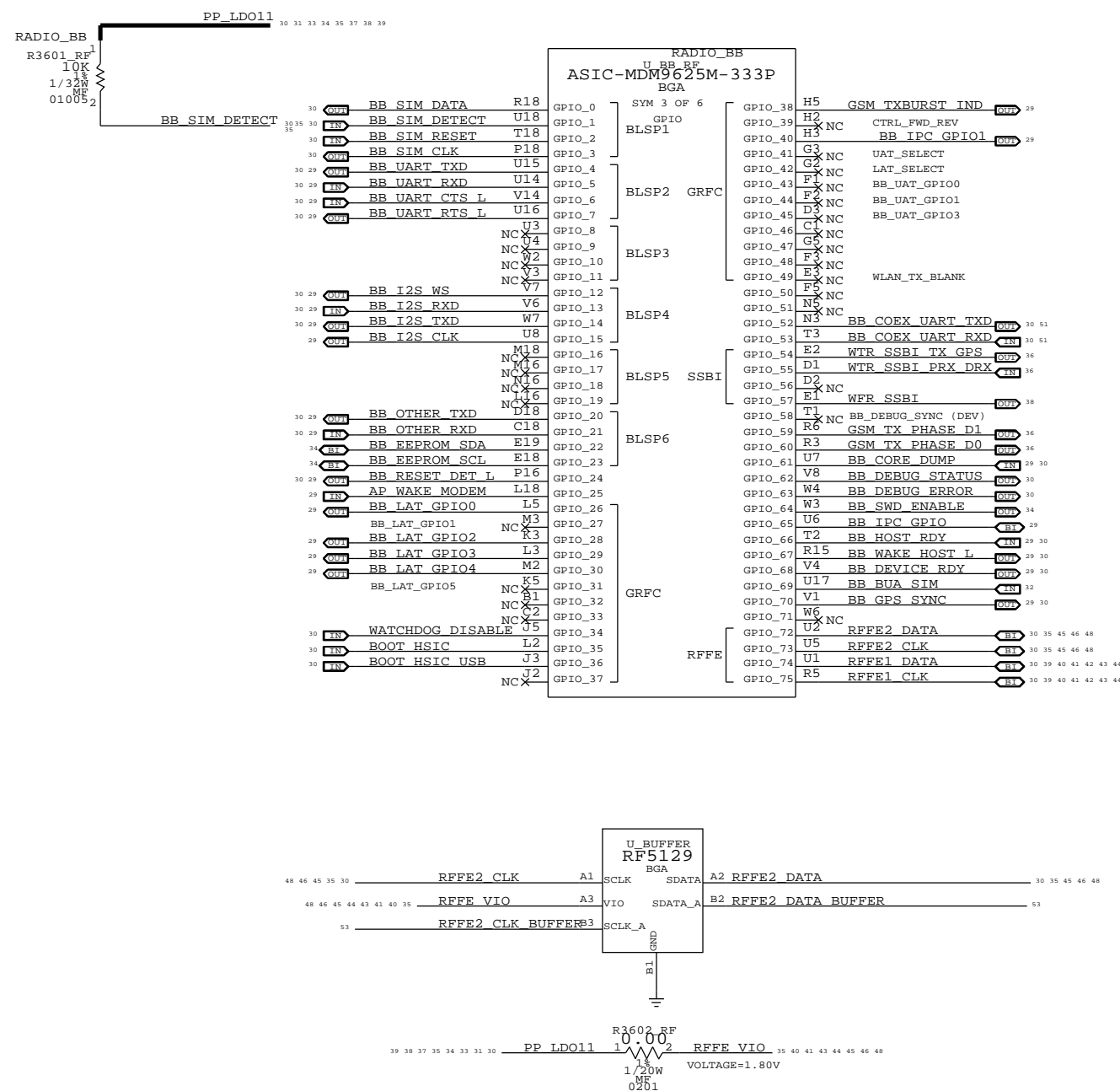
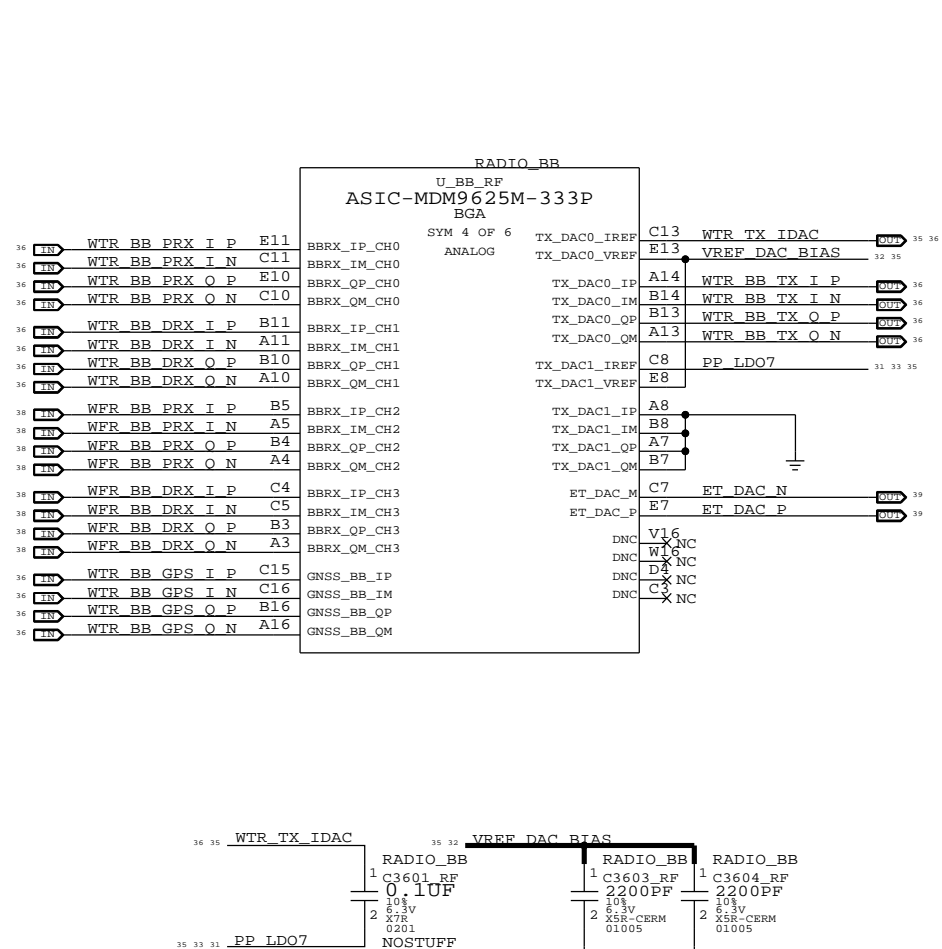
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

C600
R606
L600
U602



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

C704
R700
L700
U702



Apple Inc.

DRAWING NUMBER	051-9903	SIZE	D
REVISION	7.0.0		

NOTICE OF PROPRIETARY PROPERTY:
THE INFORMATION CONTAINED HEREIN IS THE
PROPRIETARY PROPERTY OF APPLE INC.
THE POSSESSOR AGREES TO THE FOLLOWING:
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART
IV ALL RIGHTS RESERVED

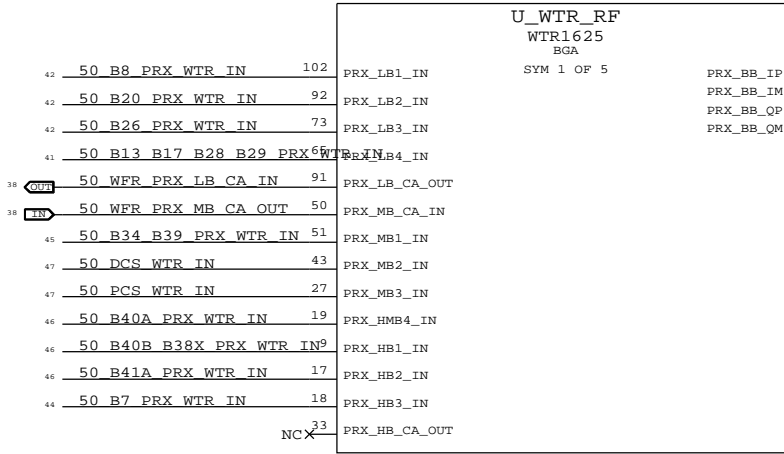
T	BRANCH
	PAGE 36 OF 55
	SHEET 35 OF 54

WTR TRANSCEIVER (1 OF 2)

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

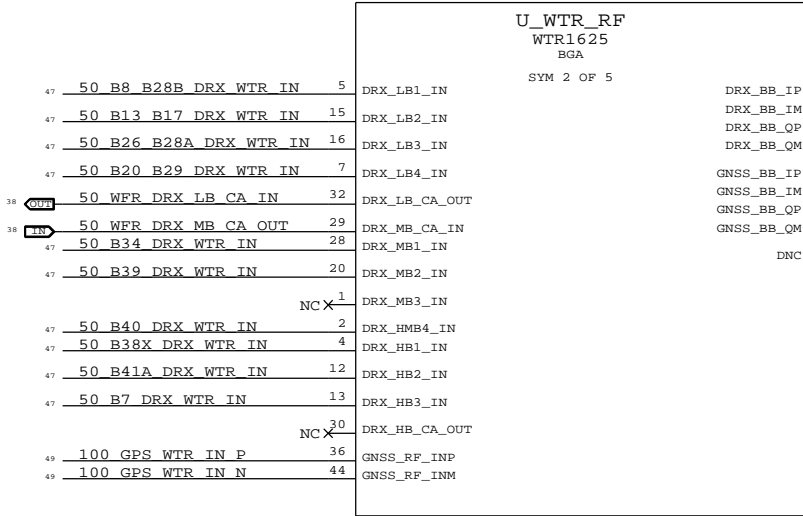
C802
R802
L800
U803

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

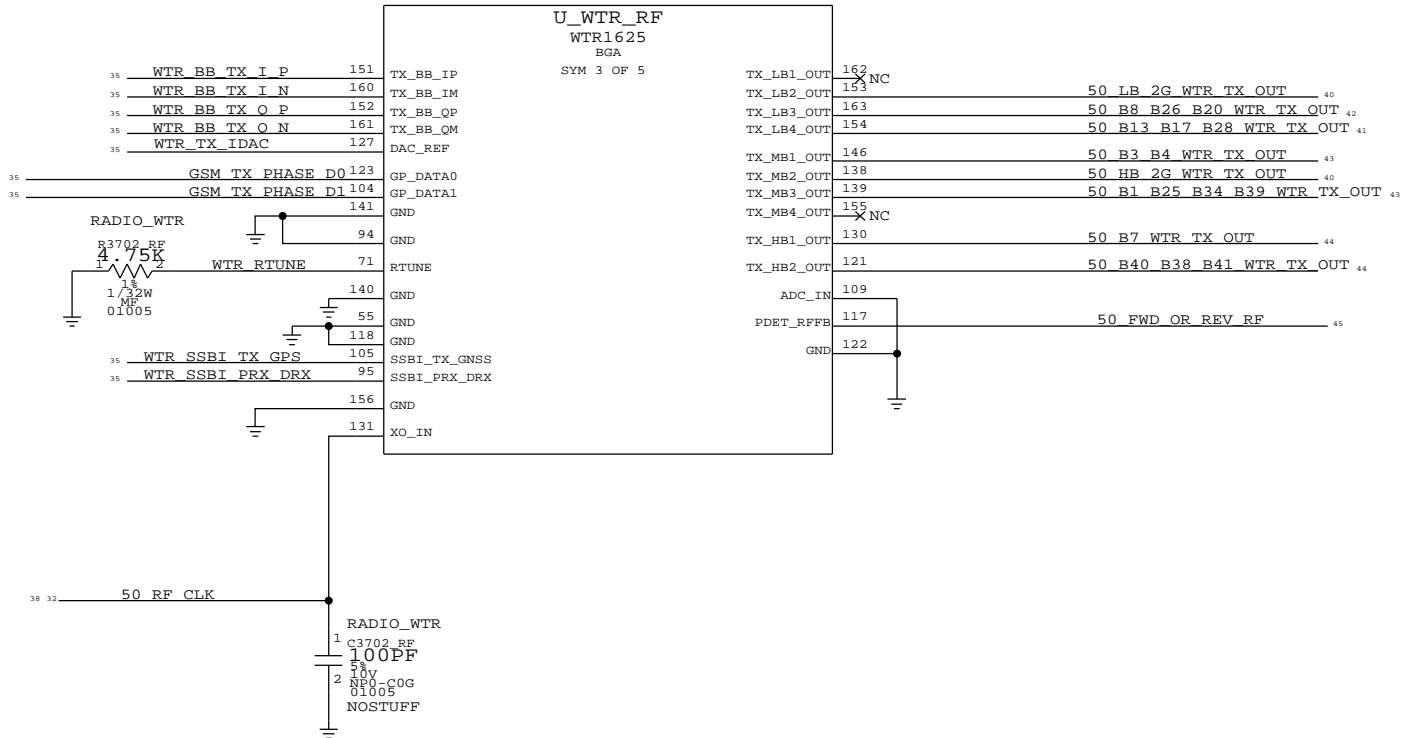


99	WTR_BB_PRX_I_P	35
108	WTR_BB_PRX_I_N	35
107	WTR_BB_PRX_O_P	35
97	WTR_BB_PRX_O_N	35

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




76	WTR_BB_DRX_I_P	RADIO_WTR
86	WTR_BB_DRX_I_N	RADIO_WTR
61	WTR_BB_DRX_O_P	RADIO_WTR
68	WTR_BB_DRX_O_N	RADIO_WTR
60	WTR_BB_GPS_I_P	RADIO_WTR
53	WTR_BB_GPS_I_N	RADIO_WTR
67	WTR_BB_GPS_O_P	RADIO_WTR
85	WTR_BB_GPS_O_N	RADIO_WTR



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

RF TRANSCEIVER (1 OF 3)

 Apple Inc. <small>THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED</small>	DRAWING NUMBER 051-9903	SIZE D
	REVISION 7.0.0	BRANCH
	PAGE 37 OF 55	SHEET
	36 OF 54	

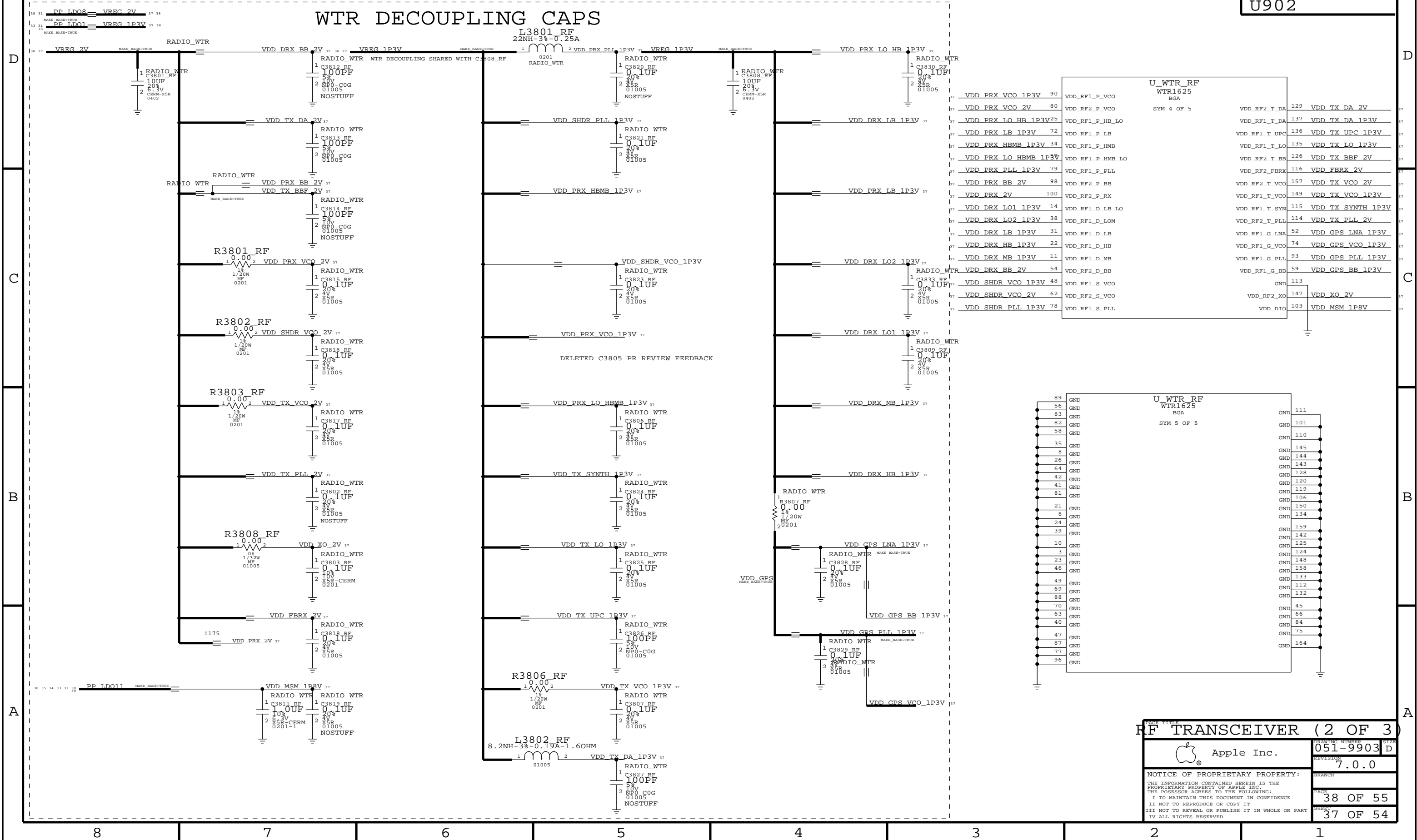
WTR TRANSCEIVER (2 OF 2)

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

C934
R926
L3802_RF
U902

WTR DECOUPLING CAPS

L3801 RF
22NH-3%-0.25A



RF TRANSCEIVER (2 OF 3)



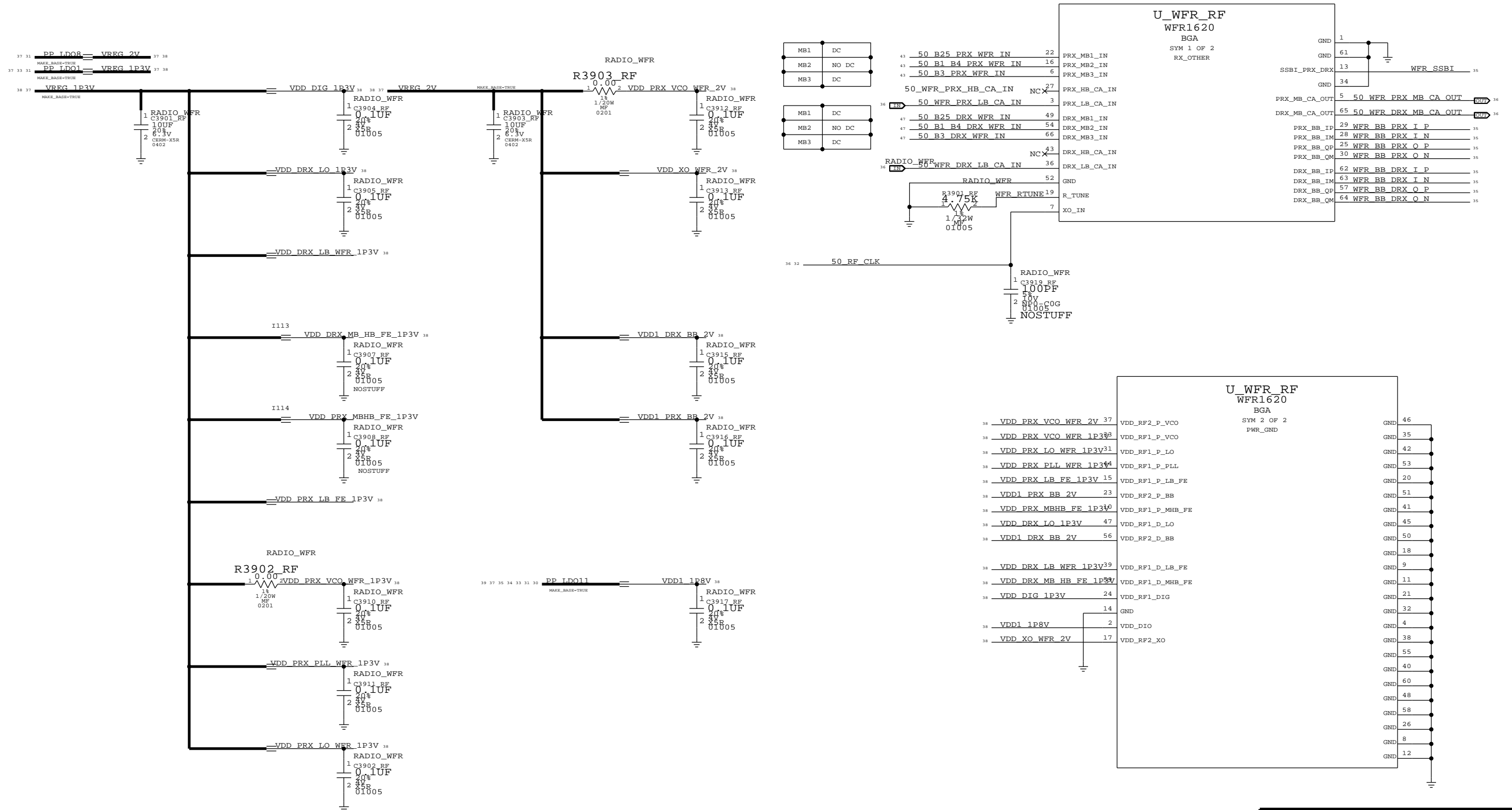
Apple Inc.


NOTICE OF PROPRIETARY PROPERTY:
THE INFORMATION CONTAINED HEREIN IS THE
PROPRIETARY PROPERTY OF APPLE INC.
THE POSSESSOR AGREES TO THE FOLLOWING:
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART
IV ALL RIGHTS RESERVED

DRAWING NUMBER	051-9903	SIZE	D
REVISION	7.0.0		
BRANCH			
PAGE	38 OF 55		
SHEET	37 OF 54		

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

C1019
R1016
L1000
U1002

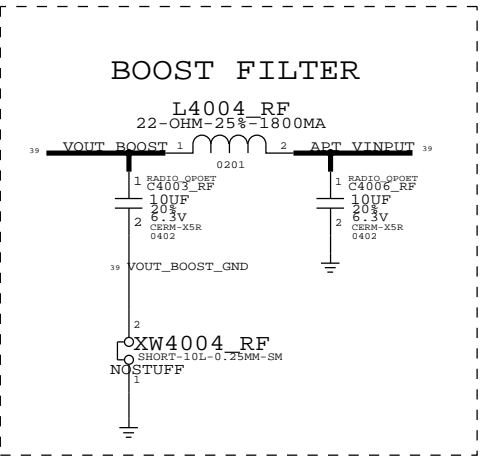
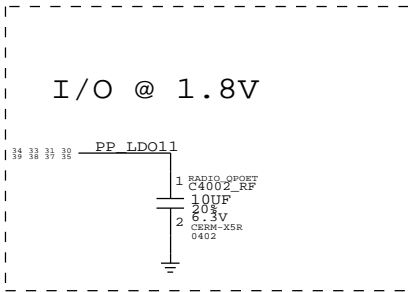
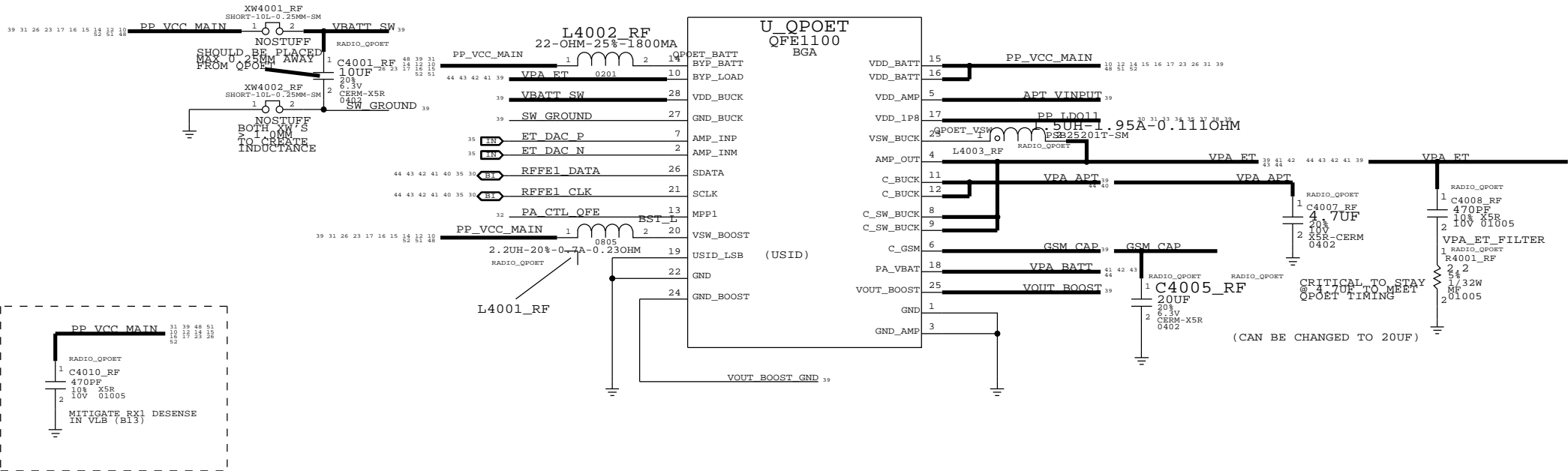



PAGE TITLE		R.F. TRANSCEIVER (3 OF 3)	
 Apple Inc.	DRAWING NUMBER		SIZ
	051-9903		D
NOTICE OF PROPRIETARY PROPERTY:		REVISION	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		7.0.0	
		BRANCH	
		PAGE	39 OF 55
		SHEET	38 OF 54

QFE DCDC

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

C1110
R1102
L1104
U1101

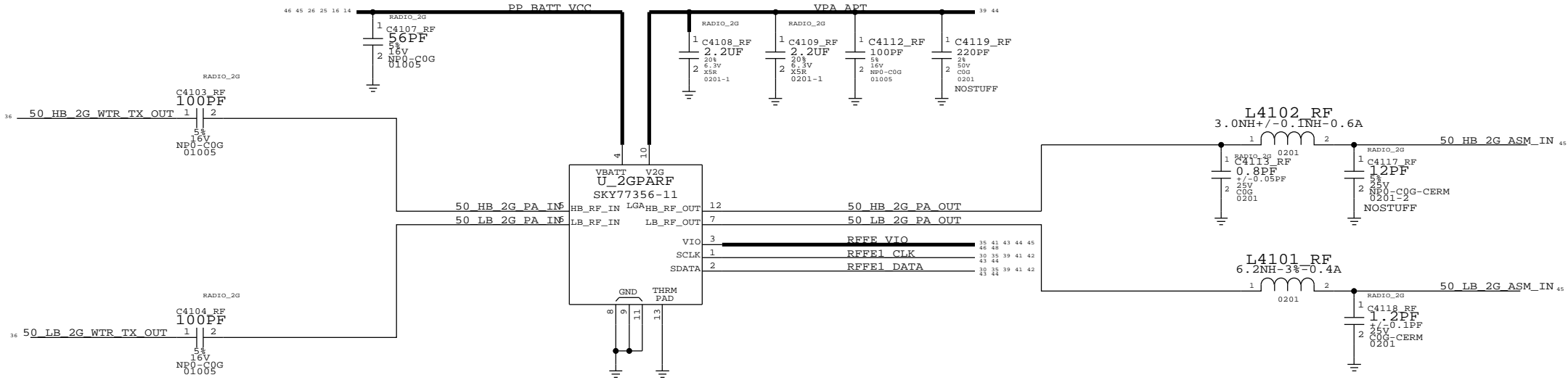



PAGE TITLE		
QFE DCDC		
 Apple Inc.	DRAWING NUMBER	051-9903
	REVISION	7.0.0
	BRANCH	
	PAGE	40 OF 55
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		SHEET 39 OF 54

2G PA

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

C1208
R1200
L1204
U1201



PAGE TITLE		
2G PA		
 Apple Inc.	DRAWING NUMBER	051-9903
	REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	41 OF 55
	SHEET	40 OF 54

LOW BAND PAD (B8, B26, B20)

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

C4318_RF
R1400
L4322_RF
U1402

D

C

B

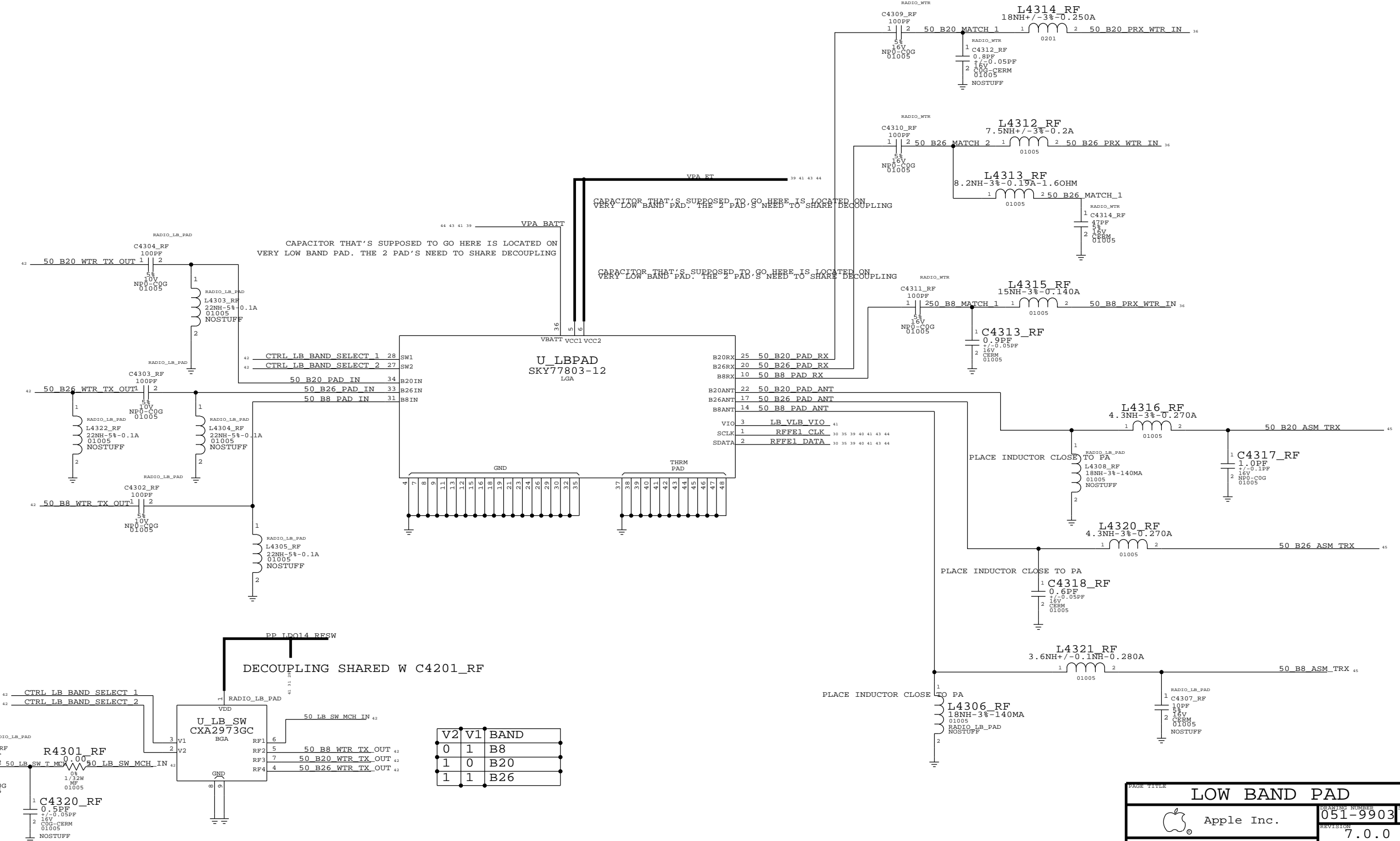
A

D


C

B

A



LOW BAND PAD

 Apple Inc.

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART
IV ALL RIGHTS RESERVED

DRAWING NUMBER051-9903

REVISION7.0.0

BRANCH

PAGE43 OF 55

SHEET42 OF 54

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

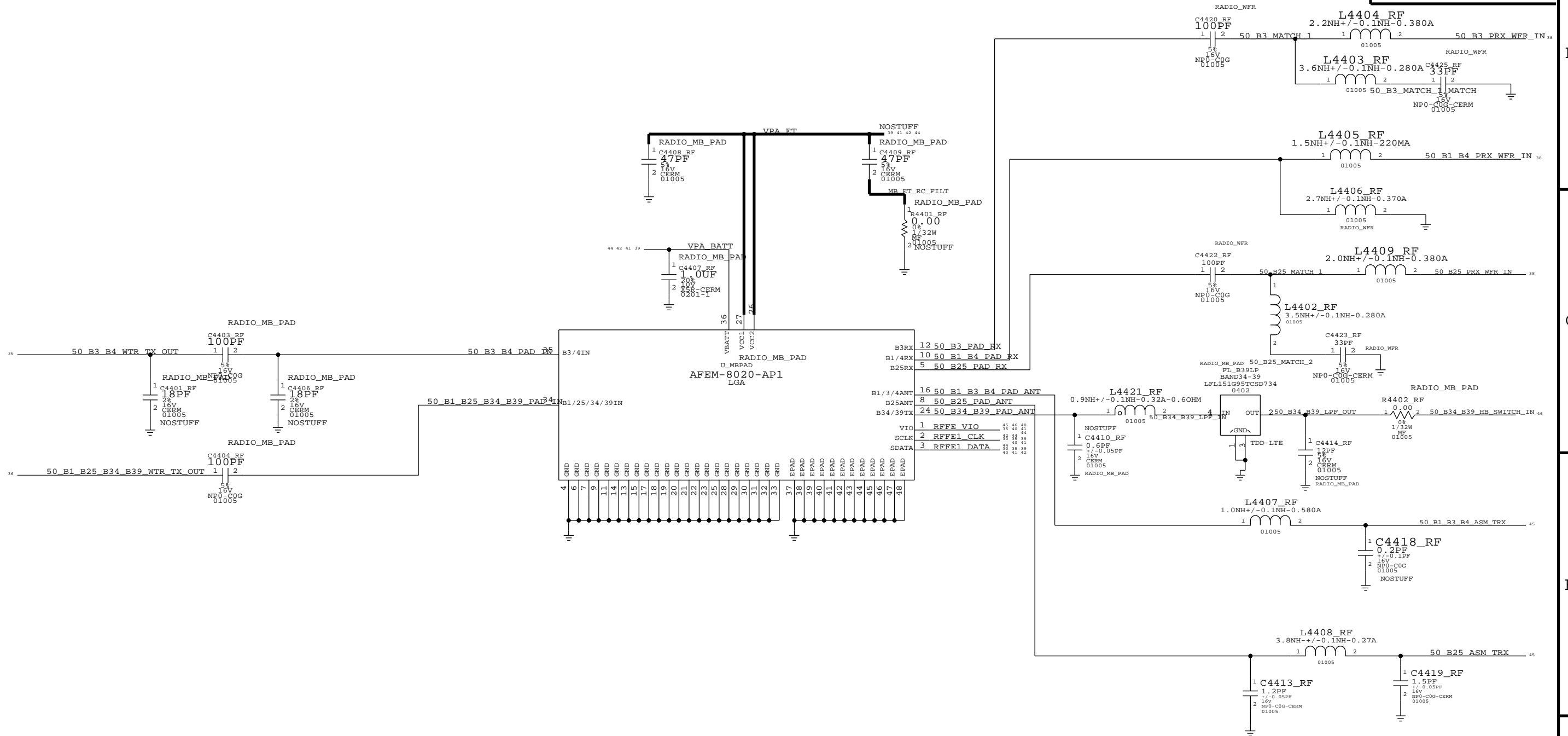
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.


C4426 RF

R1500

L4409 RF

U1501



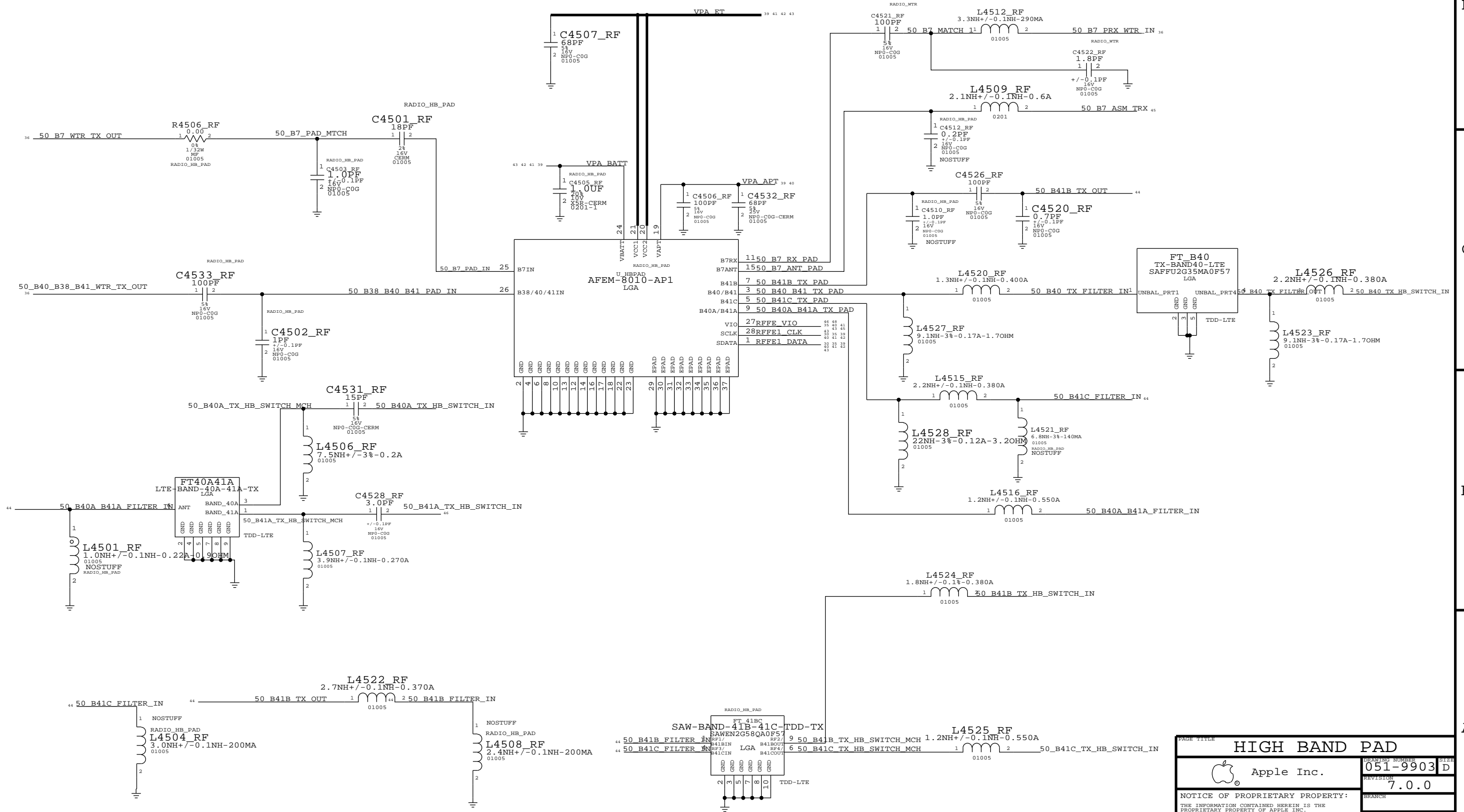
PAGE TITLE		MID BAND PAD	
 Apple Inc.	DRAWING NUMBER	051-9903	SIZE
	REVISION	7.0.0	
	BRANCH		
NOTICE OF PROPRIETARY PROPERTY:		PAGE	44 OF 55
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE I I NOT TO REPRODUCE OR COPY IT I I NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART I I ALL RIGHTS RESERVED		SHEET	43 OF 54

NOTICE OF PROPRIETARY PROPERTY:
THE INFORMATION CONTAINED HEREIN IS THE
PROPRIETARY PROPERTY OF APPLE INC.
THE POSSESSOR AGREES TO THE FOLLOWING:
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART
IV ALL RIGHTS RESERVED

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

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

C4533_RF
R1600
L1616
U1601



HIGH BAND PAD



Apple Inc.

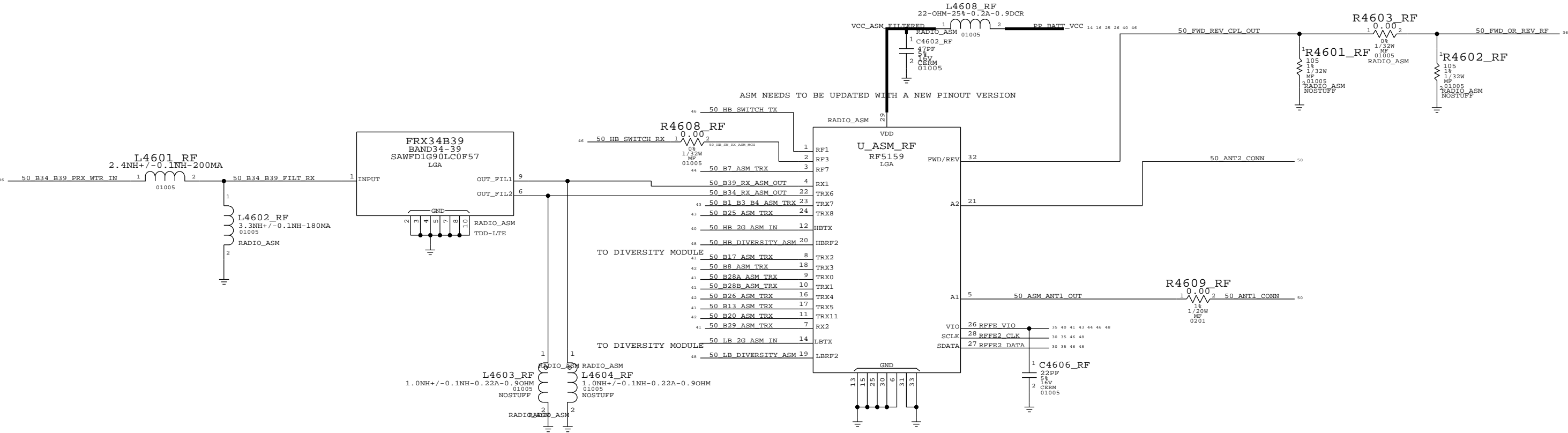
NOTICE OF PROPRIETARY PROPERTY:
THE INFORMATION CONTAINED HEREIN IS THE
PROPRIETARY PROPERTY OF APPLE INC.
THE POSSESSOR AGREES TO THE FOLLOWING:
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART
IV ALL RIGHTS RESERVED


DRAWING NUMBER	051-9903	SIZE	D
REVISION	7.0.0		
BRANCH			
PAGE	45 OF 55		
SHEET	44 OF 54		

ANTENNA SWITCH

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

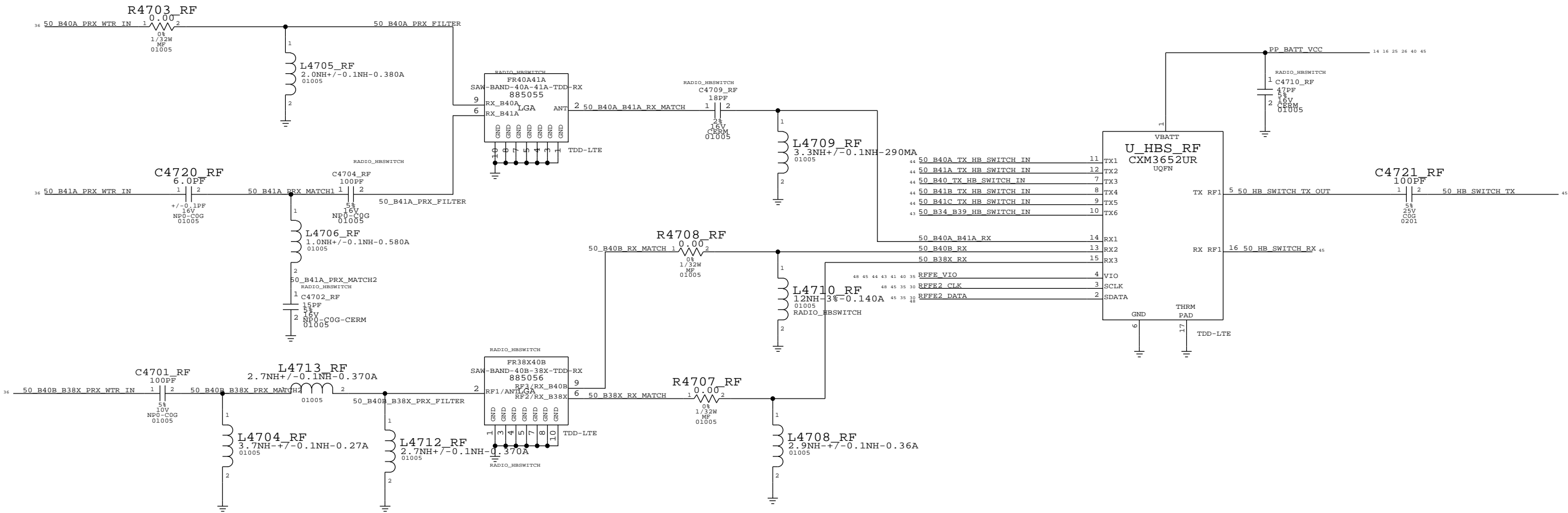
C1702
R1700
L4608_RF
U1702




PAGE TITLE			ANTENNA SWITCH		
 Apple Inc.		DRAWING NUMBER		SIZE	
		051-9903		D	
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		REVISION		BRANCH	
		7.0.0			
		PAGE		46 OF 55	
		SHEET		45 OF 54	

HIGH BAND SWITCH

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



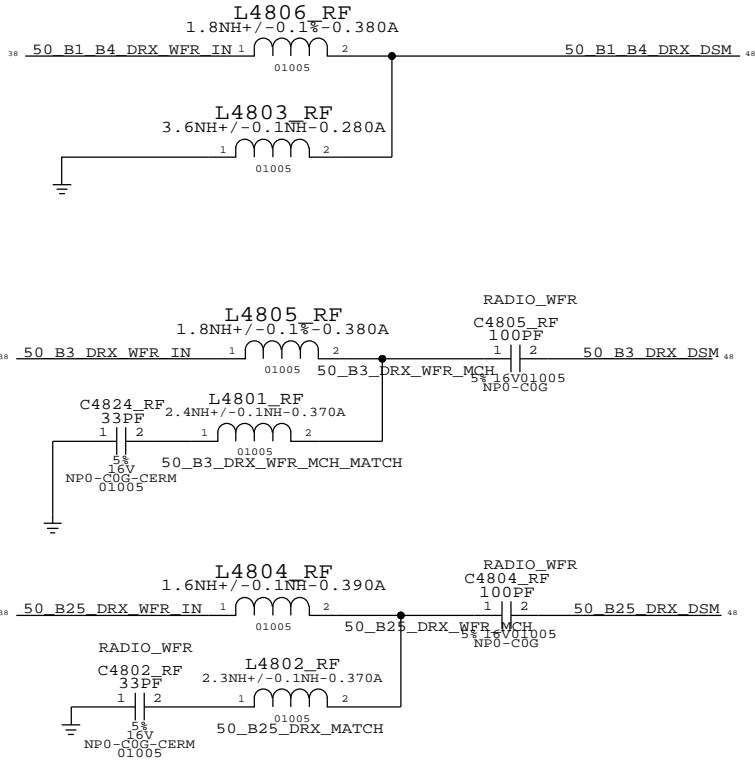
PAGE TITLE		
HIGH BAND SWITCH		
 Apple Inc.	DRAWING NUMBER	051-9903
	REVISION	7.0.0
	BRANCH	
	PAGE	47 OF 55
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		SHEET 46 OF 54

RX DIVERSITY (1)

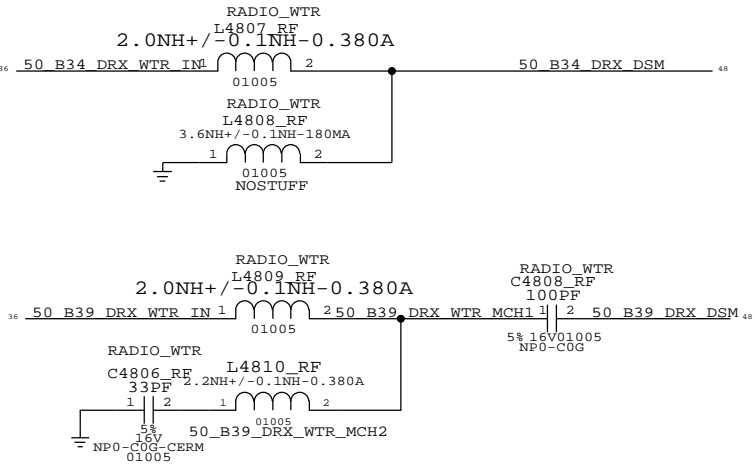
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

C4826_RF
R1800
L1829
U1801

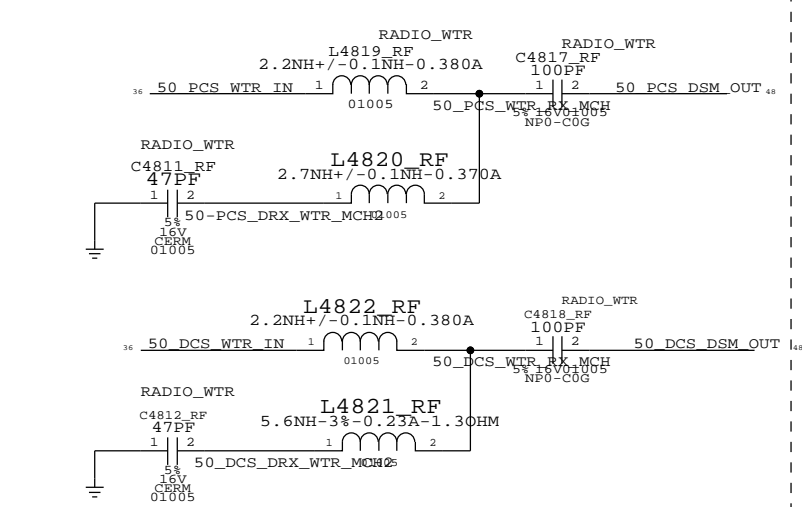
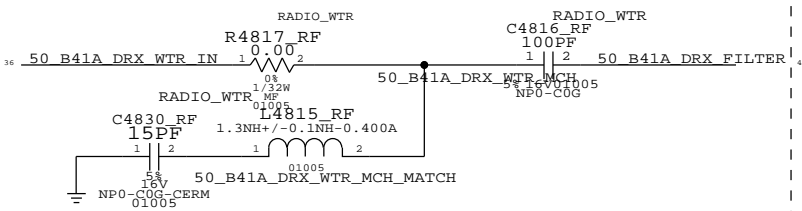
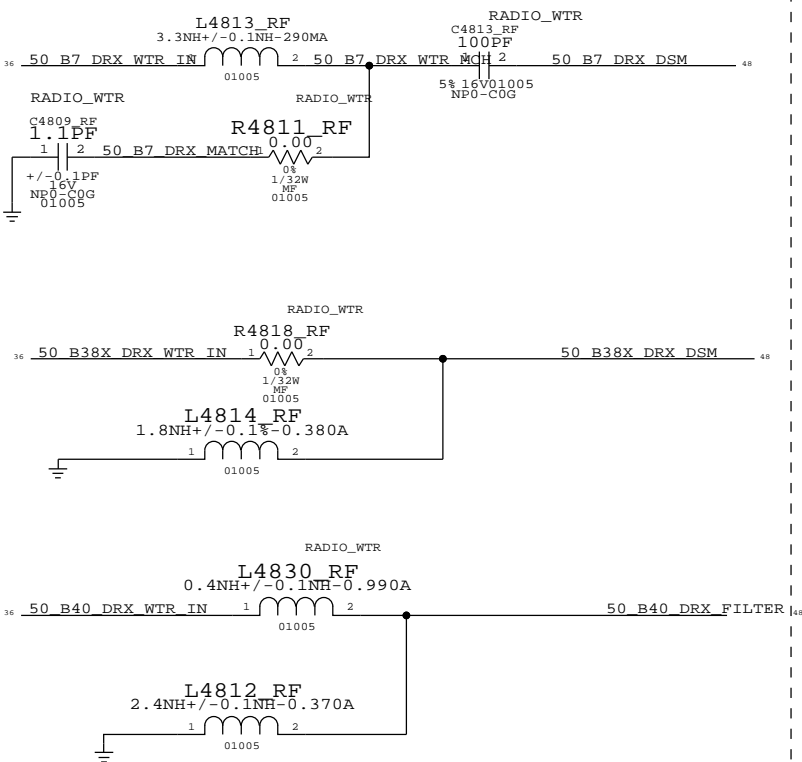
MIDBAND MIDBAND DIVERSITY - WFR



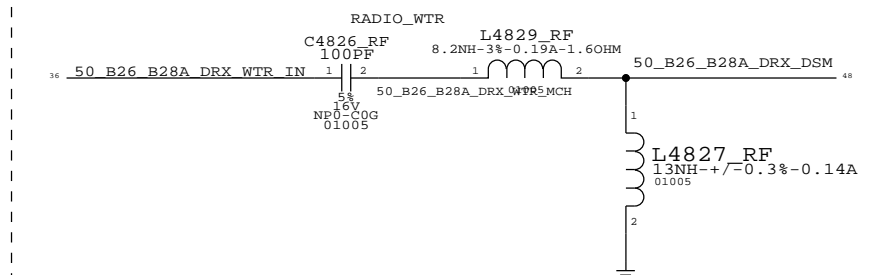
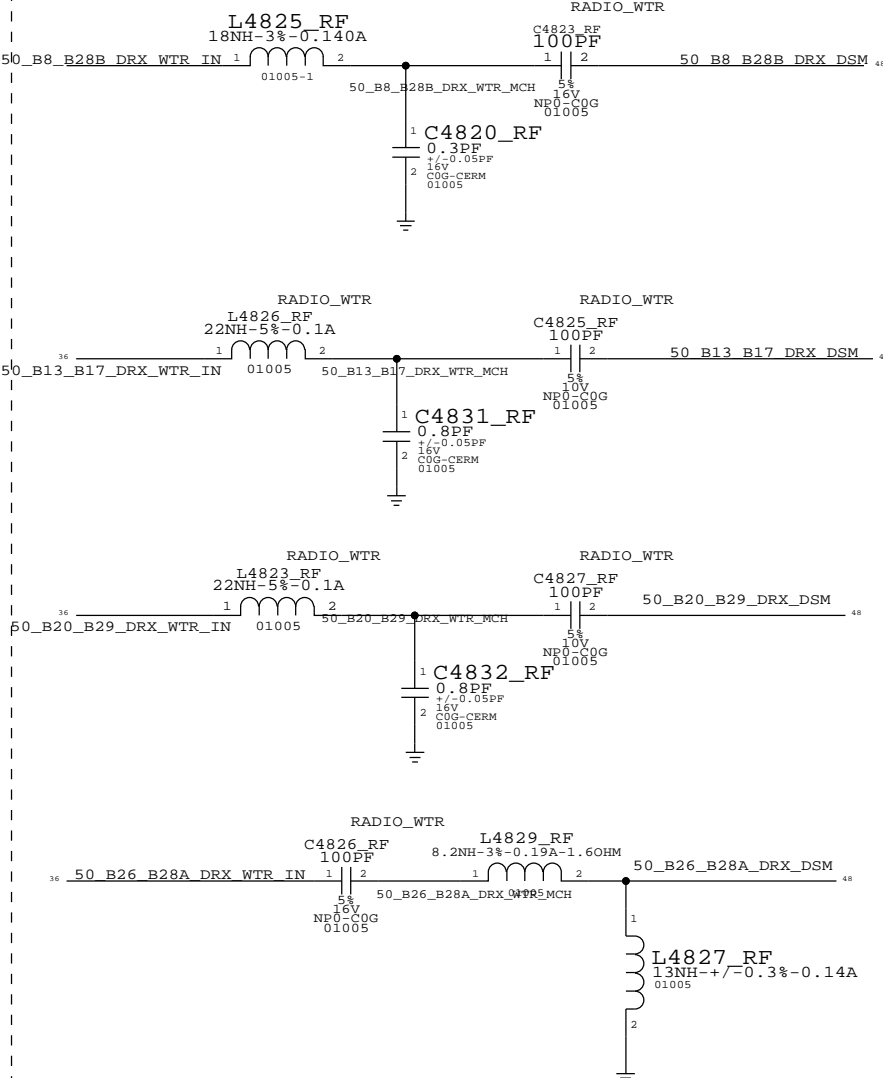
MIDBAND DIVERSITY - WTR



HIGHBAND DIVERSITY - WTR



LOWBAND DIVERSITY - WTR



RX DIVERSITY

Apple Inc.

DRAWING NUMBER
051-9903 D

REVISION
7.0.0

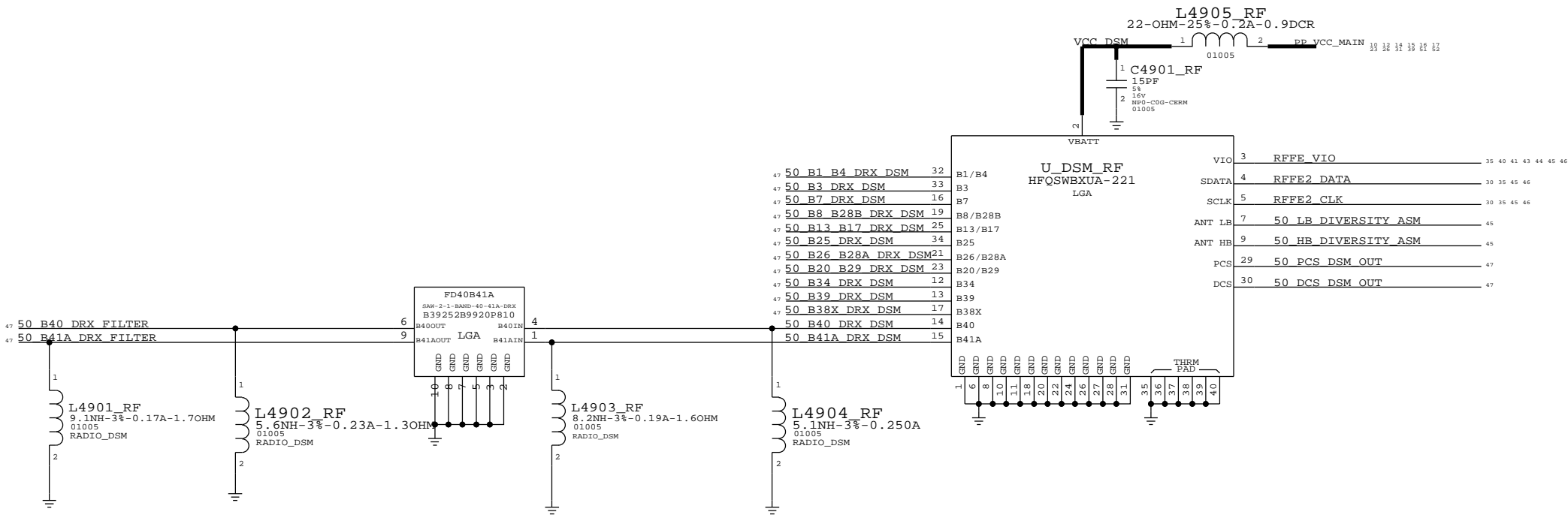
NOTICE OF PROPRIETARY PROPERTY:
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART
IV ALL RIGHTS RESERVED

BRANCH
PAGE
48 OF 55
SHEET
47 OF 54

RX DIVERSITY (2)

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

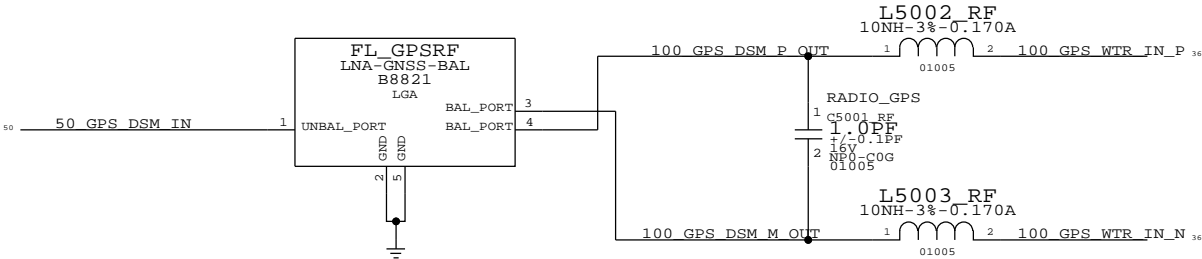
C1900
R1900
L1900
U1901




GPS

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

C1900
R1900
L1900
U1901

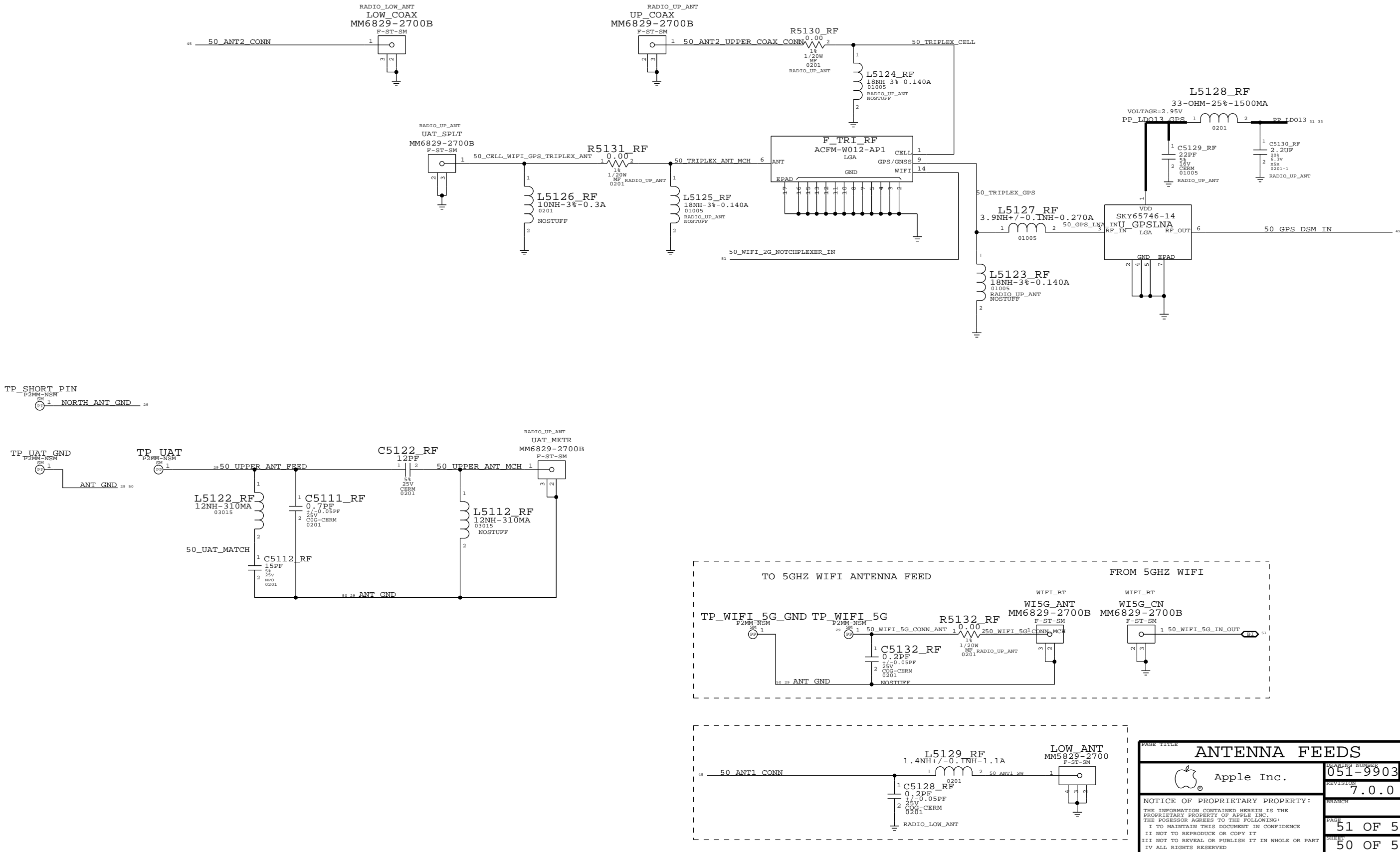


PAGE TITLE		
GPS		
 Apple Inc.	DRAWING NUMBER	051-9903
	REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	50 OF 55
	SHEET	49 OF 54

ANTENNA FEED'S

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

TEST & COAX CONNECTOR FOR LOWER SECTION OF MLB



ANTENNA FEEDS



Apple Inc.

DRAWING NUMBER 051-9903 D

REVISION 7.0.0

NOTICE OF PROPRIETARY PROPERTY:

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART
IV ALL RIGHTS RESERVED

BRANCH

PAGE 51 OF 55

SHEET 50 OF 54

WLAN/BT

D

D

C

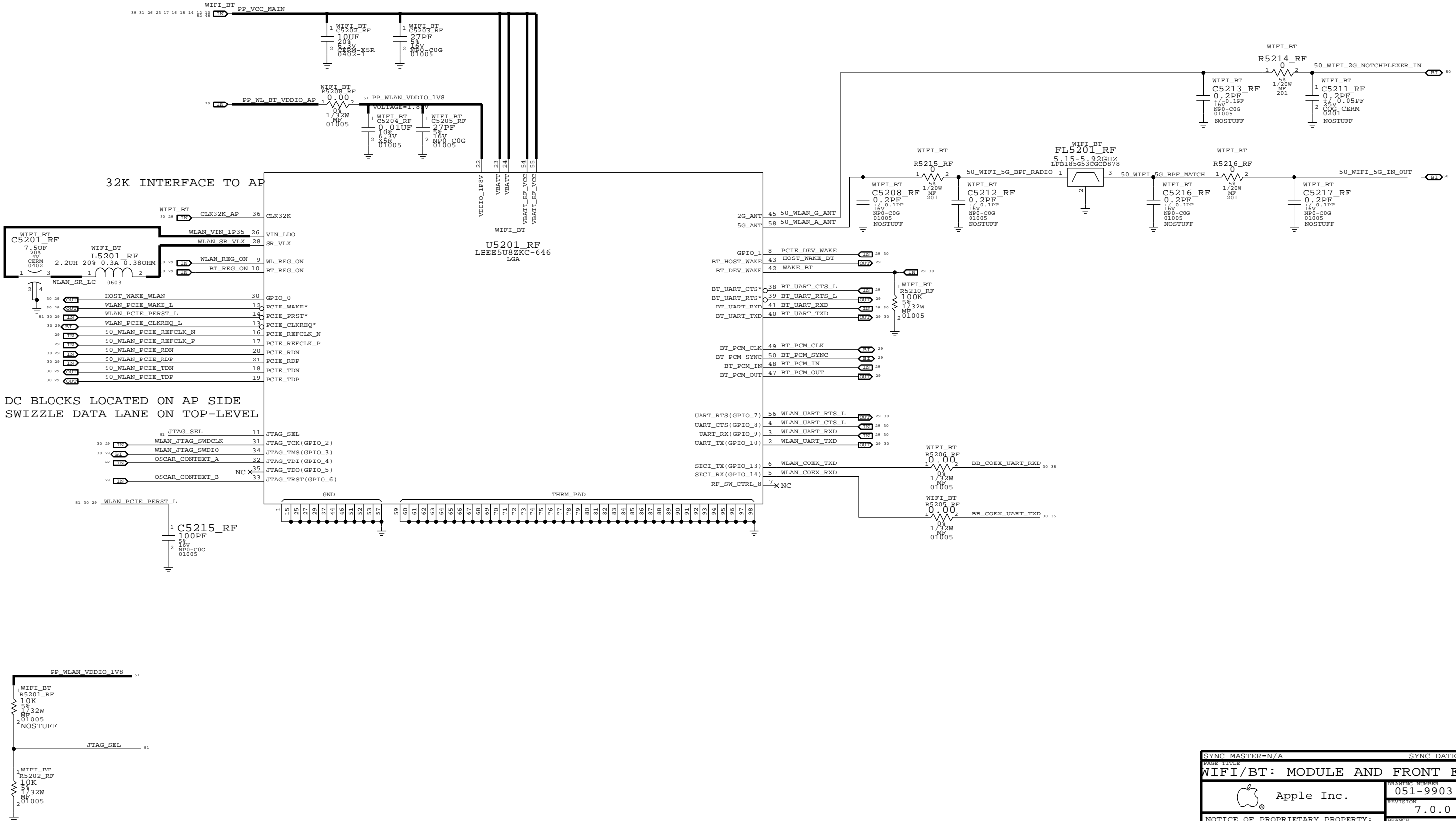
C

B

B

A


A



DC BLOCKS LOCATED ON AP SIDE
SWIZZLE DATA LANE ON TOP-LEVEL

MODULE BOOT-STRAPPED TO PCIe INTERNALLY

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

SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE TITLE			
WIFI/BT: MODULE AND FRONT END			
 Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH	
		PAGE	52 OF 55
		SHEET	51 OF 54

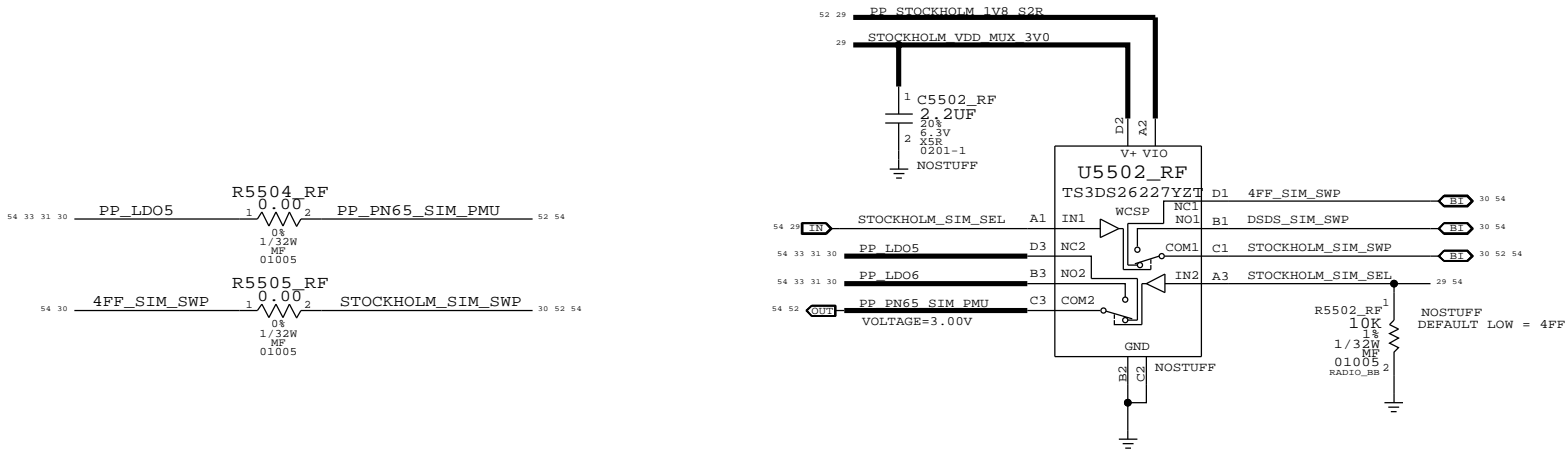
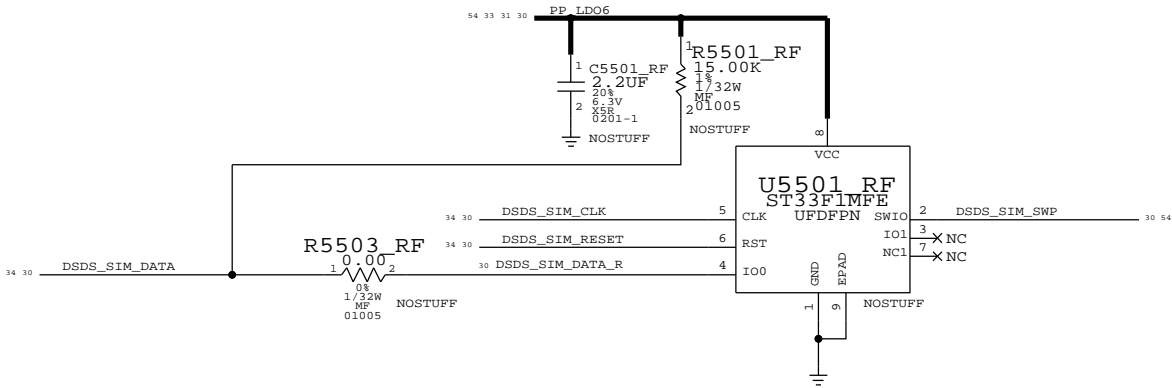
D


C

A

DSDS

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



PAGE TITLE		
JUMPER		
 Apple Inc.	DRAWING NUMBER	051-9903
	REVISION	7.0.0
	BRANCH	
	PAGE	55 OF 55
NOTICE OF PROPRIETARY PROPERTY:		SHEET
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		54 OF 54
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		
II NOT TO REPRODUCE OR COPY IT		
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		
IV ALL RIGHTS RESERVED		