

Thu Apr 17 17:11:44 2014

REV	ECN	DESCRIPTION OF REVISION	CK APPD	DATE
7	0002727241	ENGINEERING RELEASED		2014-04-18

N61 CARRIER BUILD

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

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_FQKQ	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

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5	SOC:GND,VDDIO18,VDDIOD,VDD_VAR_SOC	N56_MLB	08/29/2013
6	SOC:NAND	N56_MLB	08/29/2013
7	SOC:CAM,LCD,LDPDP,PCIE	N56_MLB	08/29/2013
8	IO:BUTTON FLEX CONN	N61_MLB	08/26/2013
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10	AUDIO:L67 CODEC (2/2)	N61_MLB	08/26/2013
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14	POWER:TIGRISR,VIBE DRIVER	N61_MLB	08/21/2013
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22	SENSORS:OSCAR,CARBON,PHOS,MAGNESIUM	N61_MLB	08/26/2013
23	CAMERA:REAR FLEX CONN	N61_MLB	08/26/2013
24	TOUCH:CUMULUS,MESON	N/A	N/A
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26	SYSTEM:VOLTAGE PROPERTIES	N56_MLB	09/10/2013
27	SYSTEM:N61 SPECIFIC	N56_MLB	09/10/2013
28	BLANK	N56_MLB	09/10/2013
29	CELL:ALIASES		
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31	BASEBAND PMU (1 OF 2)	N61_RADIO_MLB	03/24/2014
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35	MOBILE DATA MODEM (2 OF 2)	N61_RADIO_MLB	03/24/2014
36	RF TRANSCEIVER (1 OF 3)	N61_RADIO_MLB	03/24/2014
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38	RF TRANSCEIVER (3 OF 3)	N61_RADIO_MLB	03/24/2014
39	QFE DCDC	N61_RADIO_MLB	03/24/2014
40	2G PA	N61_RADIO_MLB	03/24/2014
41	VERY LOW BAND PAD	N61_RADIO_MLB	03/24/2014
42	LOW BAND PAD	N61_RADIO_MLB	03/24/2014
43	MID BAND PAD	N61_RADIO_MLB	03/24/2014
44	HIGH BAND PAD	N61_RADIO_MLB	03/24/2014
45	ANTENNA SWITCH	N61_RADIO_MLB	03/24/2014
46	HIGH BAND SWITCH	N61_RADIO_MLB	03/24/2014
47	RX DIVERSITY	N61_RADIO_MLB	03/24/2014
48	GPS	N61_RADIO_MLB	03/24/2014
49	GPS	N61_RADIO_MLB	03/24/2014
50	ANTENNA FEEDS	N61_RADIO_MLB	03/24/2014
51	WIFI/BT: MODULE AND FRONT END	N61_RADIO_MLB	03/24/2014
52		N61_RADIO_MLB	03/24/2014
53	JUMPER	N61_RADIO_MLB	03/24/2014
54	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	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

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	L1135	1.2MM 1.0UH, CYNTEC
152S00004	152S2049	ALTERNATE	L1135	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 1200HM 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,900HM,MURATA
377S0168	377S0140	ALTERNATE	DZ1113	SUPPL TRANS,VARIABLE,AMOTEC
155S0885	155S0610	ALTERNATE	FL1802,FL1809	FERR BE,1500NM,200NM,01005
138S0648	138S0652	ALTERNATE	D1018	CAP,4.7UF,20%,6.3V,0402,040-65MM
138S0657	138S0702	ALTERNATE	D1106	CAP,4.7UF,20%,4V,0402
338S00028	338S00017	ALTERNATE	J2203	CARBON,BOBCH,BM1162BC
338S00029	338S00017	ALTERNATE	J2203	CARBON,ST,AP60S2AA
335S00013	335S0894	ALTERNATE	J0301	ST BK EPRFOM

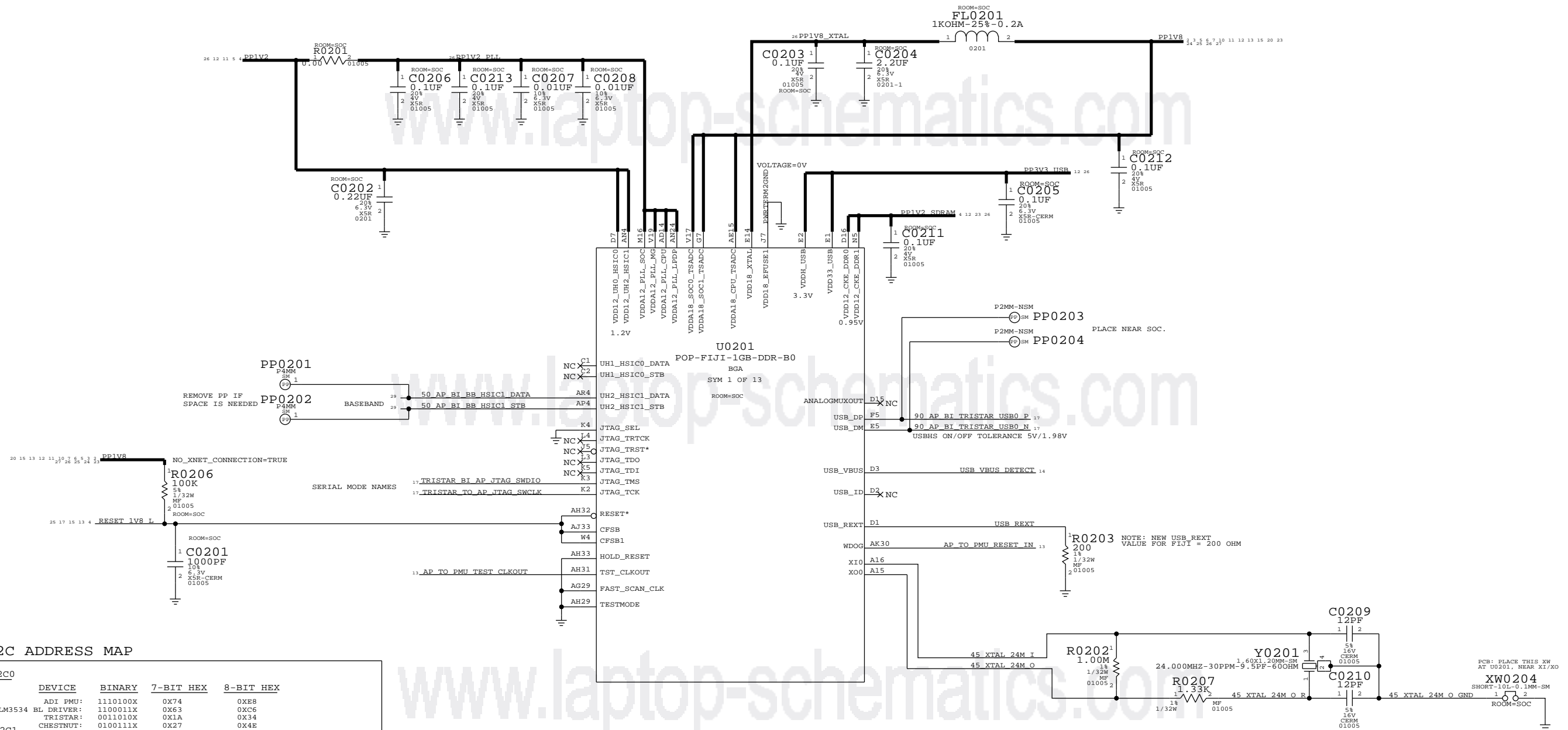
SCH 051-9903
BRD 820-3486
MCO 056-6825

BOM 639-4237 (16GB,BETTER) BOM 639-00208 (16GB,BETTER,DTD)
BOM 639-5838 (32GB,BEST) BOM 639-00209 (32GB,BEST,DTD)
BOM 639-5839 (64GB,ULTRA) 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.	DRAWING NUMBER	051-9903	SIZE D
	REVISION	7.0.0	
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FIJI: JTAG, USB, HSIC, XTAL



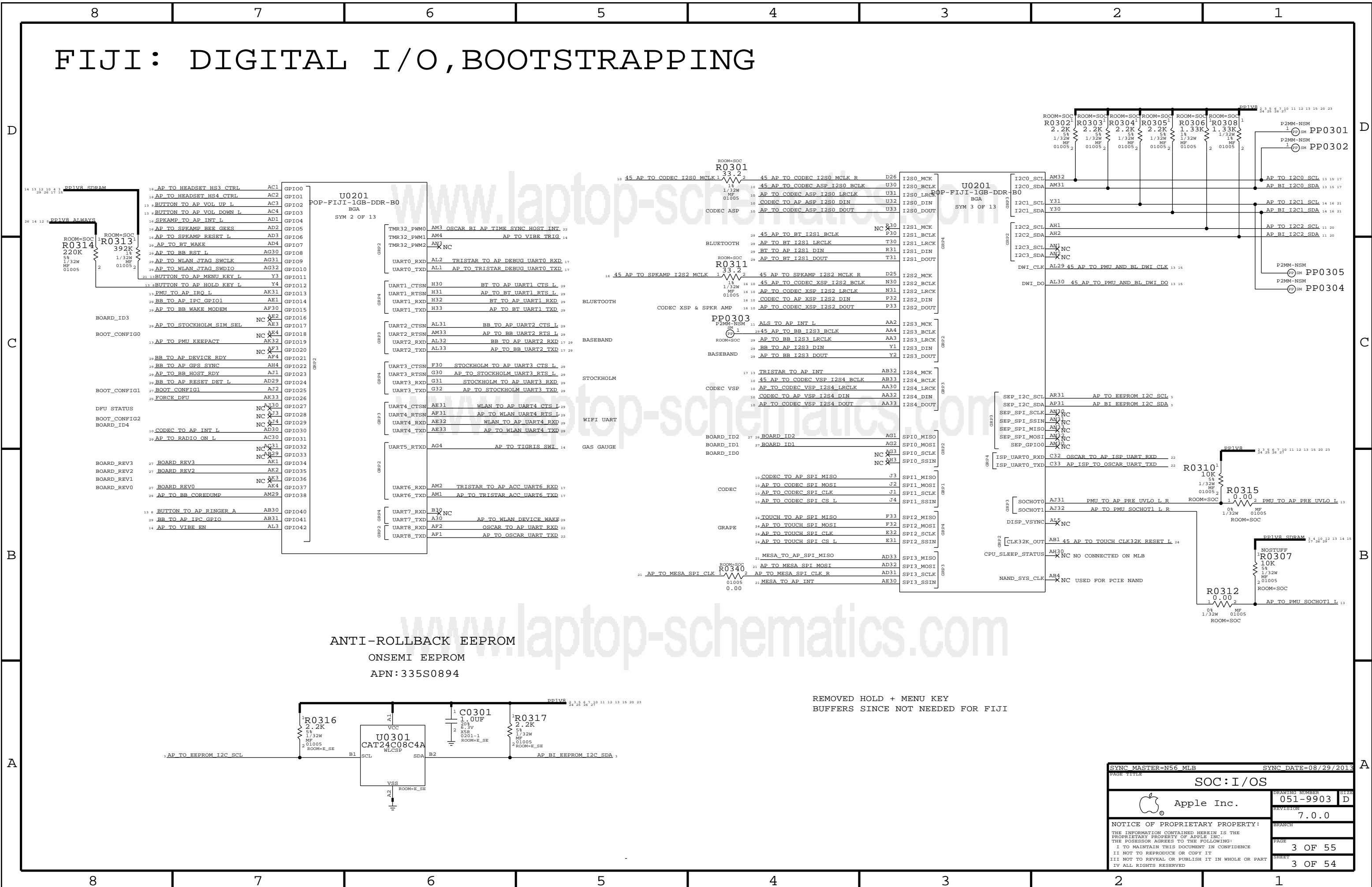
I2C ADDRESS MAP

I2C0	DEVICE	BINARY	7-BIT HEX	8-BIT HEX
I2C0	ADI PMU:	1110100X	0X74	0XE8
	LM3534 BL DRIVER:	1100011X	0X63	0XC6
	TRISTAR:	0011010X	0X1A	0X34
	CHESTNUT:	0100111X	0X27	0X4E
I2C1	TIGRIS CHARGER:	1110101X	0X75	0XEA
	LINEAR VIBE:	1011010X	0X5A	0XB4
	CS35L19B AMP:	1000000X	0X40	0X80
	MESA EEPROM (MEMORY):	1010110X	0X56	0XAC
MESA EEPROM (ID):	1011110X	0X5E	0XBC	
I2C2	CT814 ALS:	0101001X	0X29	0X52
	DISPLAY EEPROM:	1010001X	0X51	0XA2
RCAM I2C	OPEL STROBE DRIVER:	1100011X	0X63	0XC6
	REAR FACING CAM:	0010000X	0X10	0X20
	VCM AF DRIVER:	0001100X	0X0C	0X18
FCAM I2C	FRONT FACING CAM:	0010000X	0X10	0X20

NOTE: ACCEL, GYRO, COMPASS ALL USING SPI (VIA OSCAR) FOR AP COMMUNICATION.

SYNC MASTER=N56 MLB		SYNC DATE=08/29/2013	
SOC:MAIN			
Apple Inc.	DRAWING NUMBER	051-9903	SIZE D
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FIJI: DIGITAL I/O, BOOTSTRAPPING



REMOVED HOLD + MENU KEY
 BUFFERS SINCE NOT NEEDED FOR FIJI

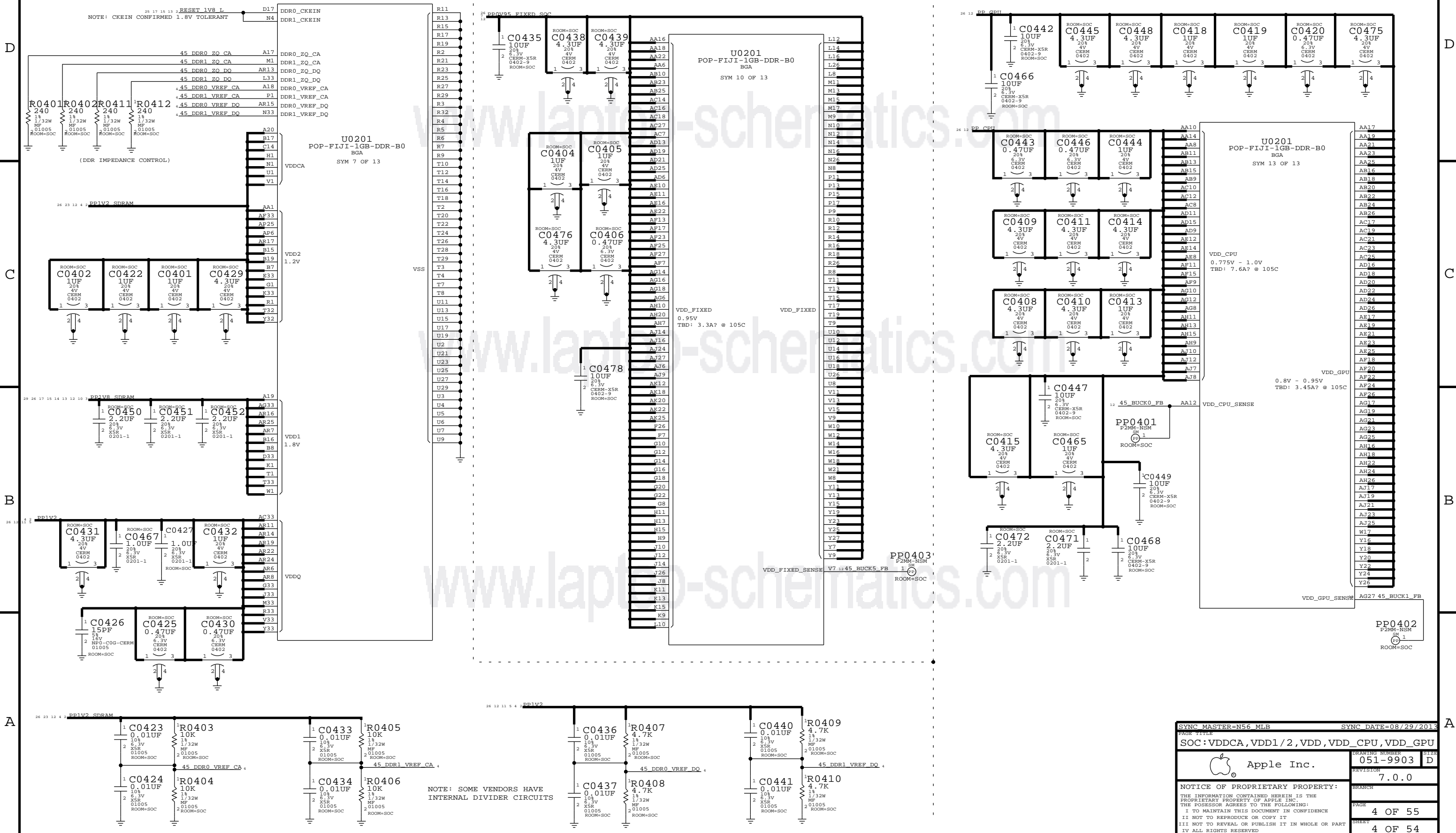
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FIJI: VDDCA, VDD1/2, VDDQ, VDD, VDD_FIXED, VDD_CPU, VDD_GPU

VDDCA, VDD1/2, VDDQ

VDD

VDD_CPU, VDD_GPU

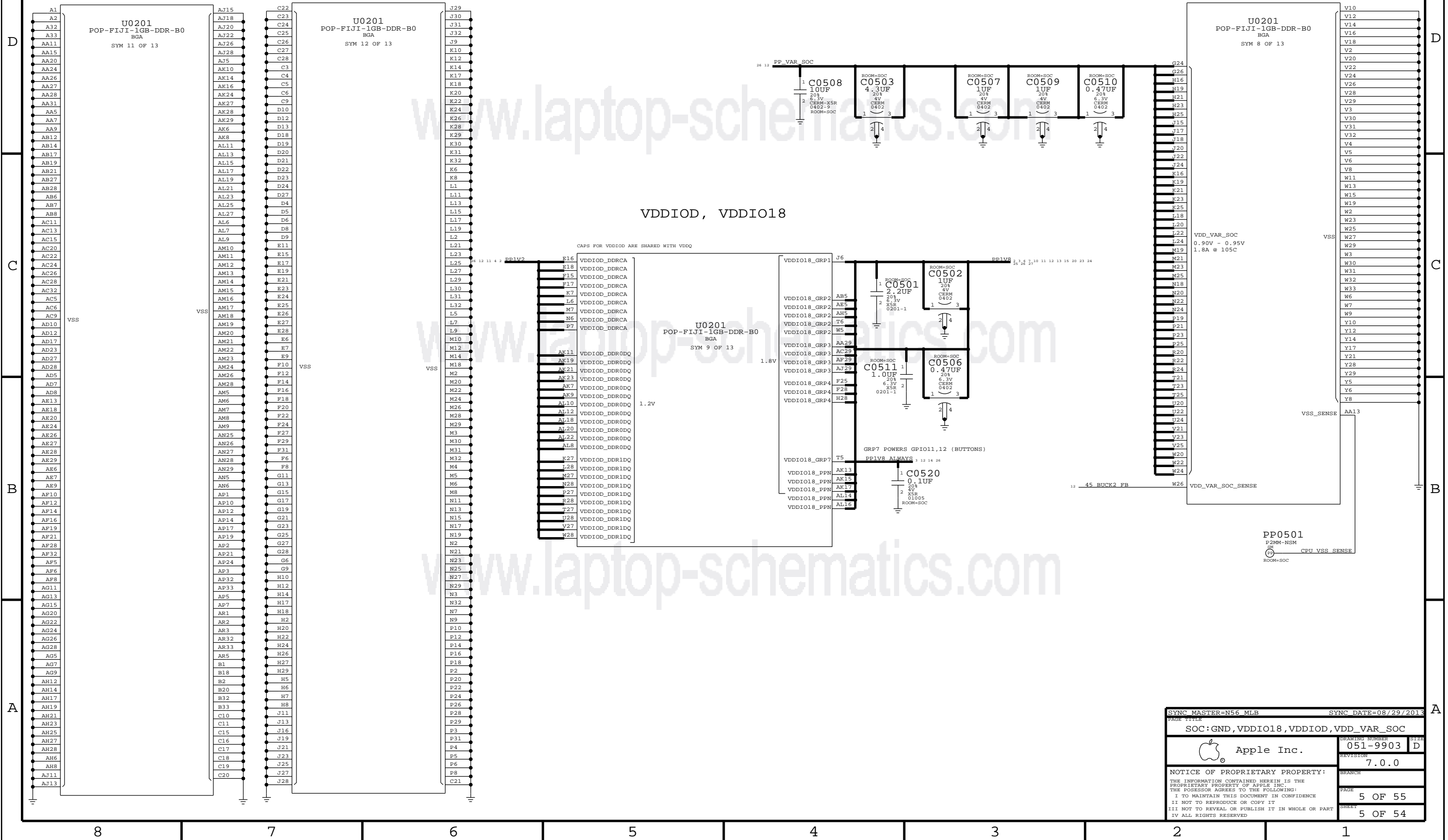


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SOC: VDDCA, VDD1/2, VDD, VDD_CPU, VDD_GPU			
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FIJI: VDDIOD, VDDIO18, VDD_VAR_SOC

JUST A FEW GNDS

VDD_SRAM, VDD_SOC



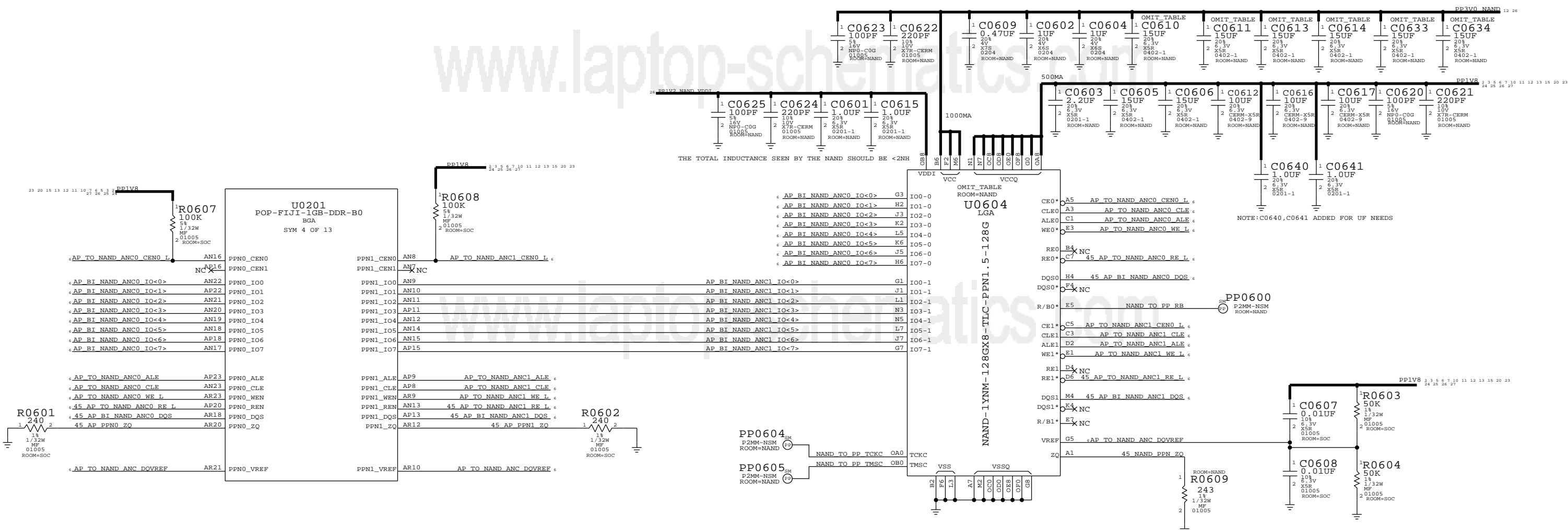
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FIJI: NAND + 12X17 NAND PKG

SUPPORT FOR PPN1.5 (1.8V IO) ONLY

www.laptop-schematics.com

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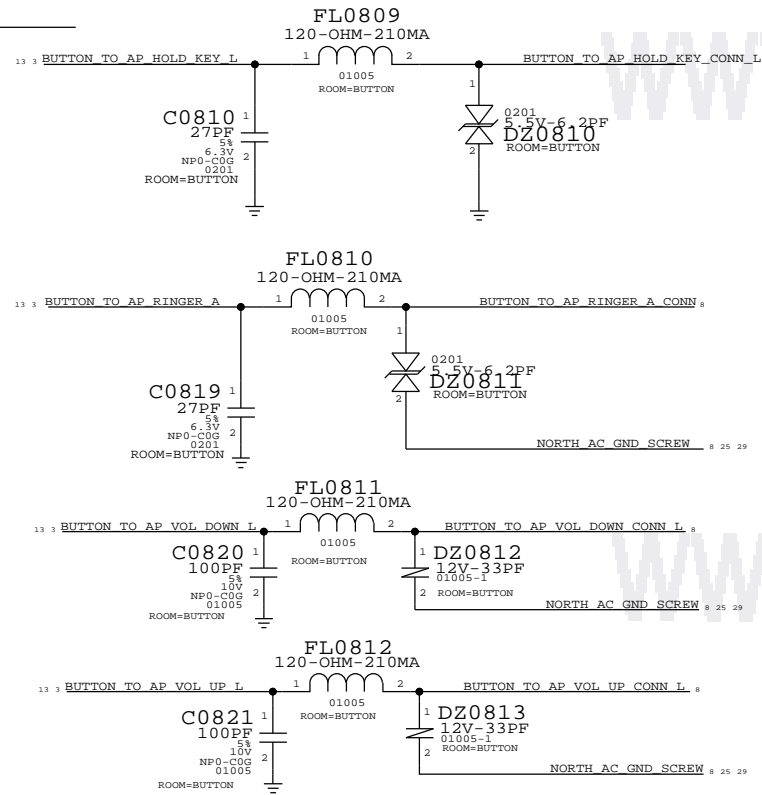
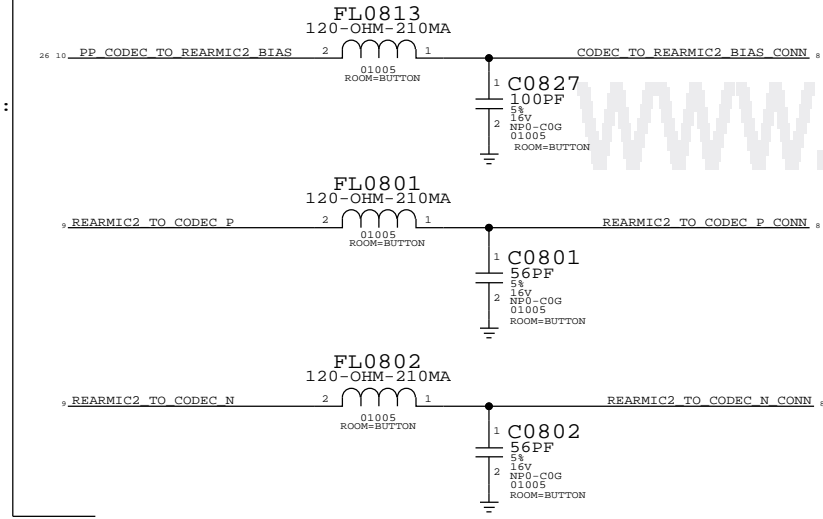


- PP0601 P4MM ROOM=SOC 1 AP BI NAND ANCO IO<6> (IS A STATUS READY BIT)
- PP0602 P4MM ROOM=SOC 1 45 AP TO NAND ANCO RE L
- PP0603 P4MM ROOM=SOC 1 45 AP BI NAND ANCO DOS

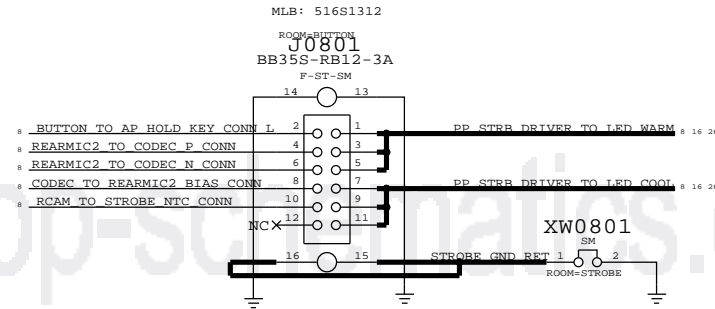
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BUTTON FLEX (BUTTONS, ANC REF MIC, STROBE, STROBE_NTC, WIFI FLEX PAC)

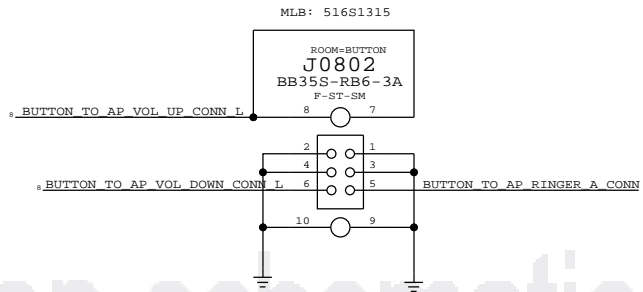
MIC2 (ANC REF MIC):
MIC2_4 BIAS,
MIC2_P,_N



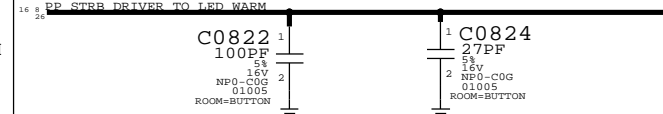
RIGHT BUTTON B2B



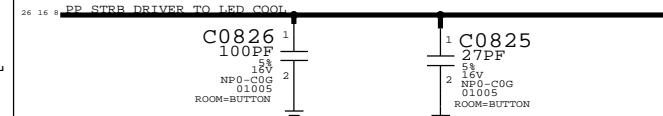
LEFT BUTTON B2B



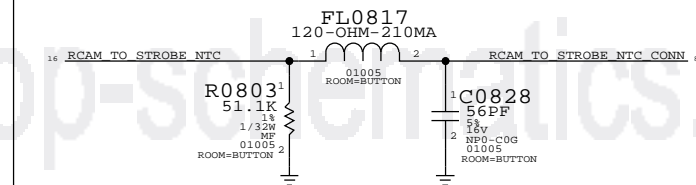
STROBE:
LED WARM



STROBE:
LED COOL



STROBE:
NTC



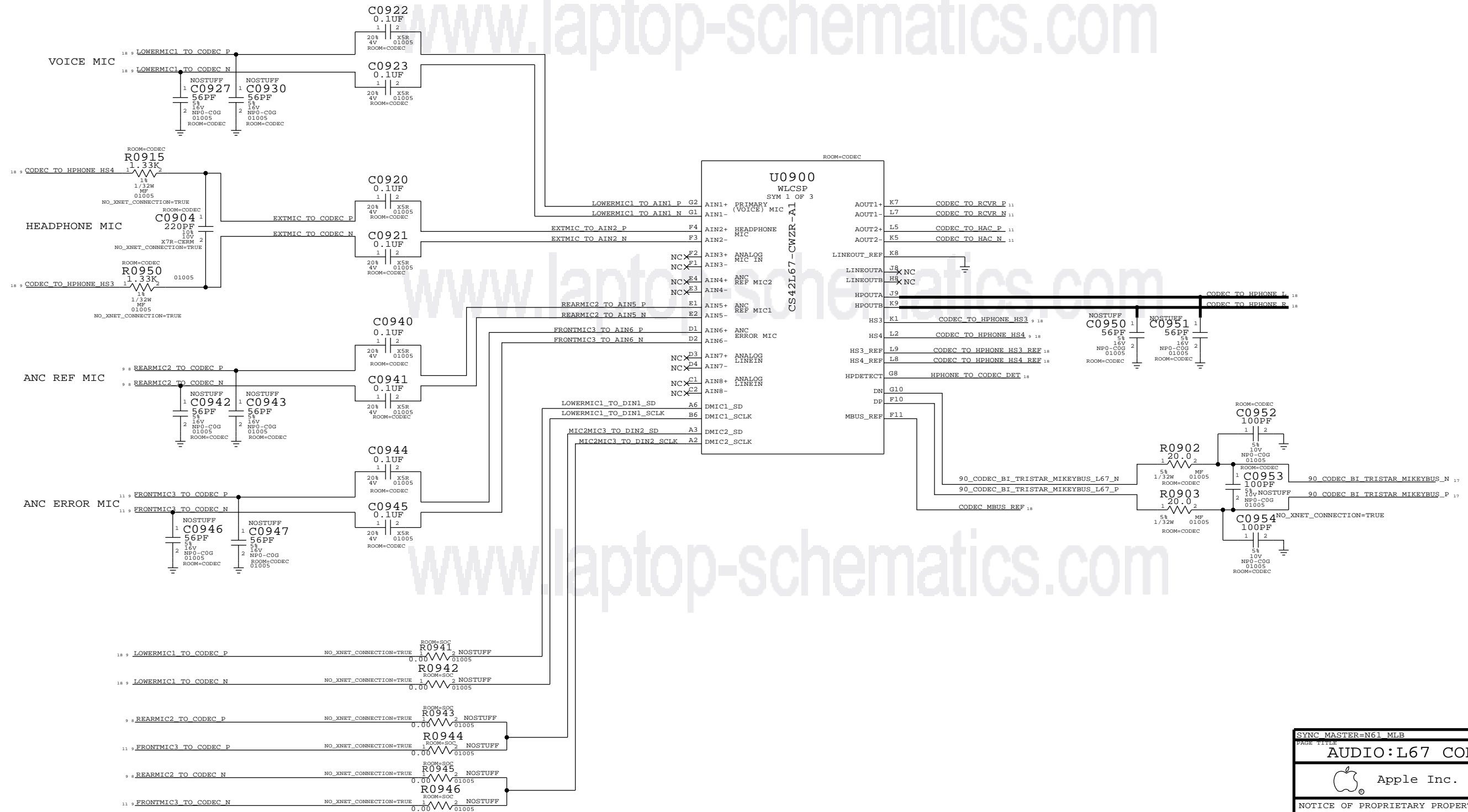
BUTTONS:
RINGER, HOLD,
VOL_UP/DOWN,

SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE IO:BUTTON FLEX CONN			
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L67 AUDIO CODEC

AUDIO I/O

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



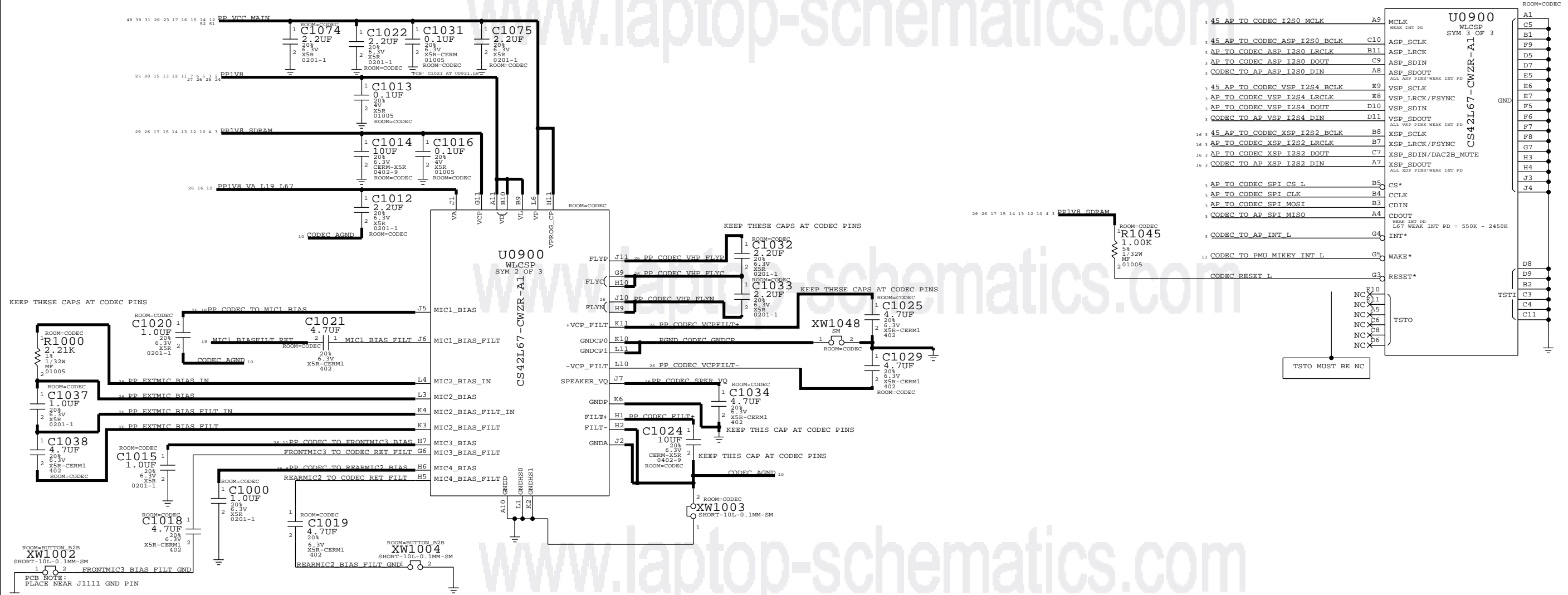
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Apple Inc.		DRAWING NUMBER	051-9903
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L67 AUDIO CODEC

POWER, MICBIAS

DIGITAL SYSTEM I/O

NOTE: C1022 WAS REDUCED TO 2.2UF BECAUSE OF ADDITIONAL NEARBY VCC MAIN CAPS

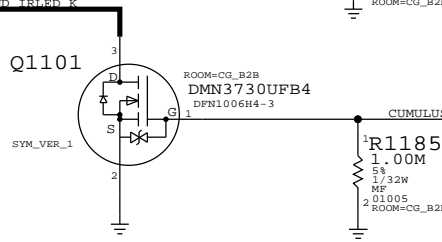
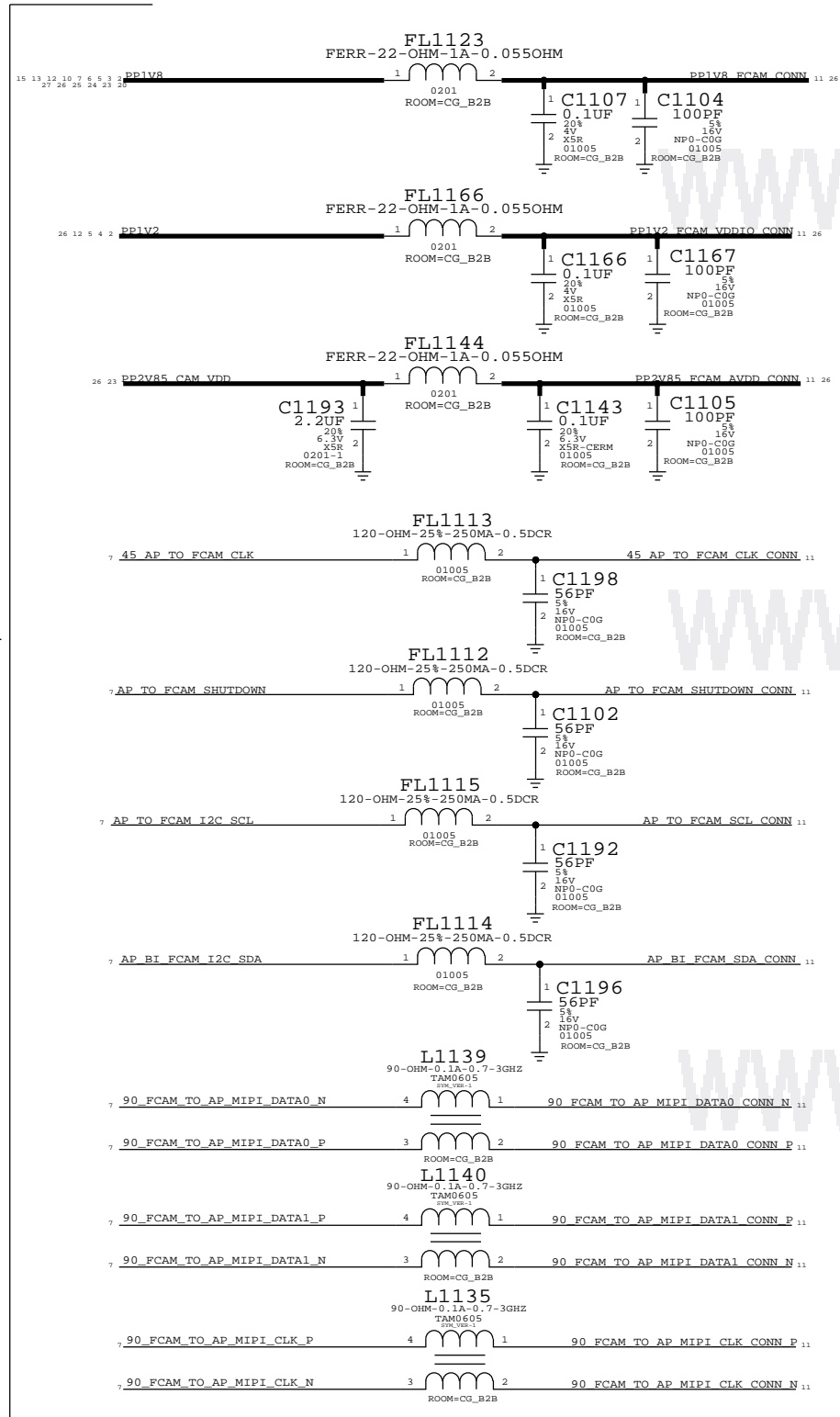
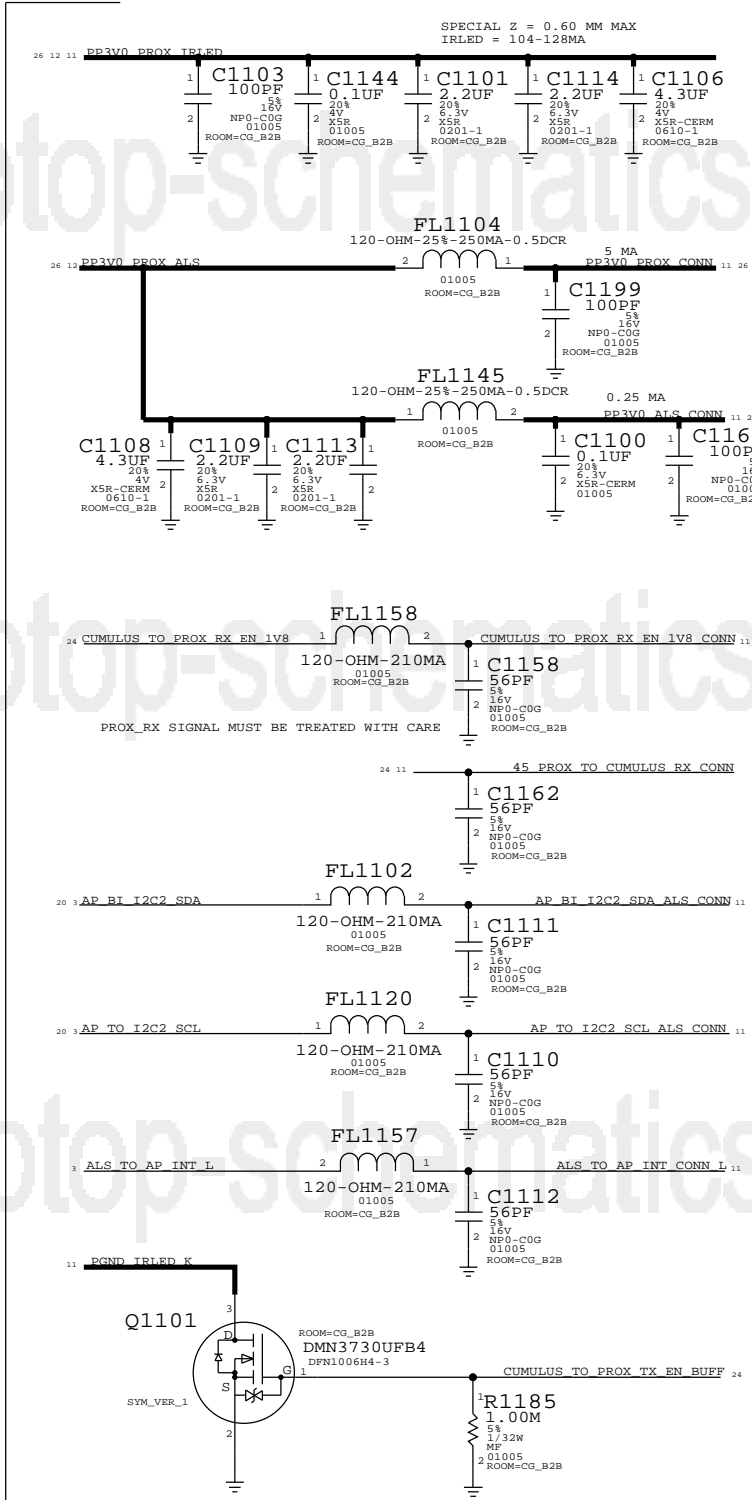
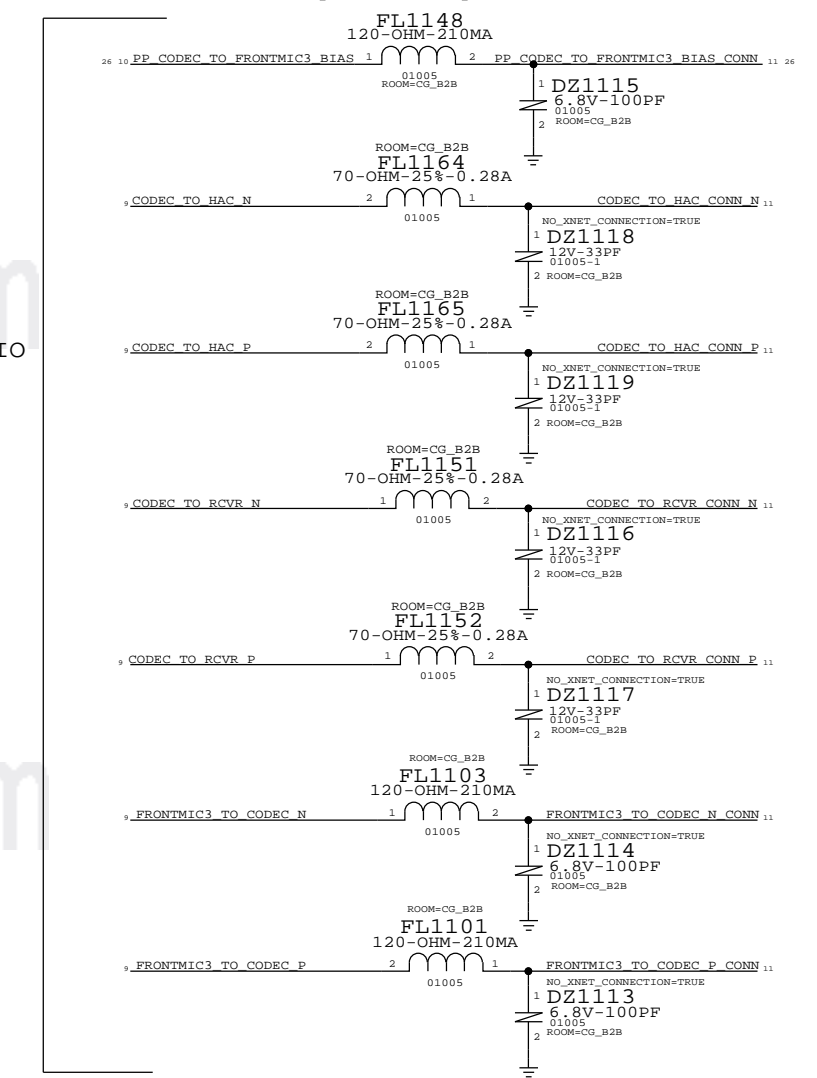
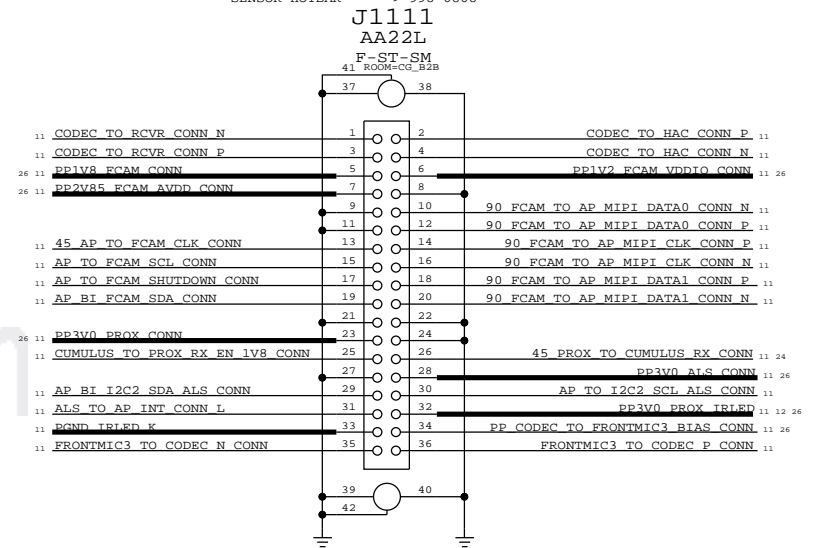


SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
AUDIO:L67 CODEC (2/2)			
Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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FRONT CAM FLEX B2B

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

THIS ON ONE MLB ---> 516S1081 RECEPTACLE
SENSOR HOTBAR ---> 998-6868



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
CAMERA: FRONT FLEX CONN			
Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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		SIZE	D

ADI PMU

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

www.laptop-schematics.com

www.laptop-schematics.com

www.laptop-schematics.com

AMUX VOLTAGE LIMIT IS APPROX. = VDD_REF = PP_VCC_MAIN

APN: 338S1251 (ADI AZ)

ROOM=PMU U1202
D2186AZE0FJAVAC
FCCSP-N56-N61
SYM 2 OF 3

1.8V ----> AMUX_A0
1.8V ----> AMUX_A1
1.8V ----> AMUX_A2
1.8V ----> AMUX_A3
1.8V ----> AMUX_A4
3.33V ----> AMUX_A5
BASEBAND ----> AMUX_A6
1.8V ----> AMUX_A7
1.8V ----> AMUX_A8
BASEBAND ----> AMUX_A9
BASEBAND ----> AMUX_A10
BASEBAND ----> AMUX_A11
BASEBAND ----> AMUX_A12
BASEBAND ----> AMUX_A13
BASEBAND ----> AMUX_A14
BASEBAND ----> AMUX_A15
BASEBAND ----> AMUX_A16
BASEBAND ----> AMUX_A17
BASEBAND ----> AMUX_A18
BASEBAND ----> AMUX_A19
BASEBAND ----> AMUX_A20
BASEBAND ----> AMUX_A21
BASEBAND ----> AMUX_A22
BASEBAND ----> AMUX_A23
BASEBAND ----> AMUX_A24
BASEBAND ----> AMUX_A25
BASEBAND ----> AMUX_A26
BASEBAND ----> AMUX_A27
BASEBAND ----> AMUX_A28
BASEBAND ----> AMUX_A29
BASEBAND ----> AMUX_A30
BASEBAND ----> AMUX_A31
BASEBAND ----> AMUX_A32
BASEBAND ----> AMUX_A33
BASEBAND ----> AMUX_A34
BASEBAND ----> AMUX_A35
BASEBAND ----> AMUX_A36
BASEBAND ----> AMUX_A37
BASEBAND ----> AMUX_A38
BASEBAND ----> AMUX_A39
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BASEBAND ----> AMUX_A41
BASEBAND ----> AMUX_A42
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BASEBAND ----> AMUX_A47
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BASEBAND ----> AMUX_A49
BASEBAND ----> AMUX_A50
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BASEBAND ----> AMUX_A63
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BASEBAND ----> AMUX_A83
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BASEBAND ----> AMUX_A94
BASEBAND ----> AMUX_A95
BASEBAND ----> AMUX_A96
BASEBAND ----> AMUX_A97
BASEBAND ----> AMUX_A98
BASEBAND ----> AMUX_A99
BASEBAND ----> AMUX_A100

PCB: MAKE XW1328, XW1329 ACCESSIBLE!

ROOM=PMU PP1300
ROOM=PMU PP1301

ROOM=PMU R1301
ROOM=PMU XW1304
ROOM=PMU XW1309
ROOM=PMU XW1306
ROOM=PMU XW1311
ROOM=PMU XW1308

ROOM=PMU R1309
ROOM=PMU XW1333
ROOM=PMU XW1314
ROOM=PMU XW1315

ROOM=PMU C1365
ROOM=PMU R1309
ROOM=PMU C1365

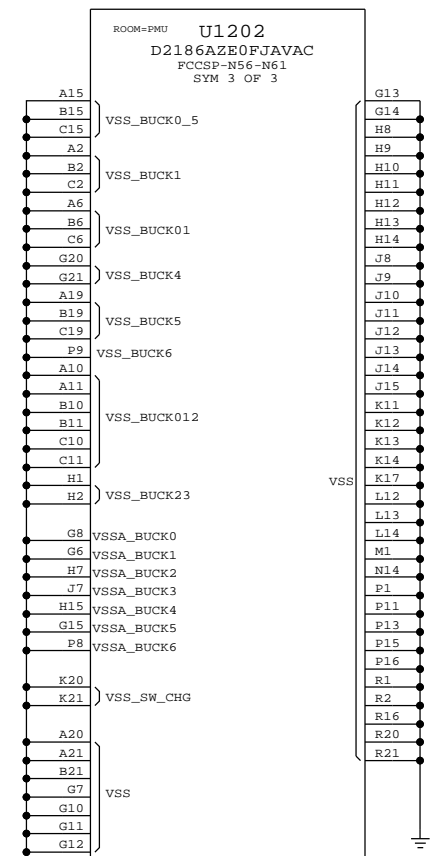
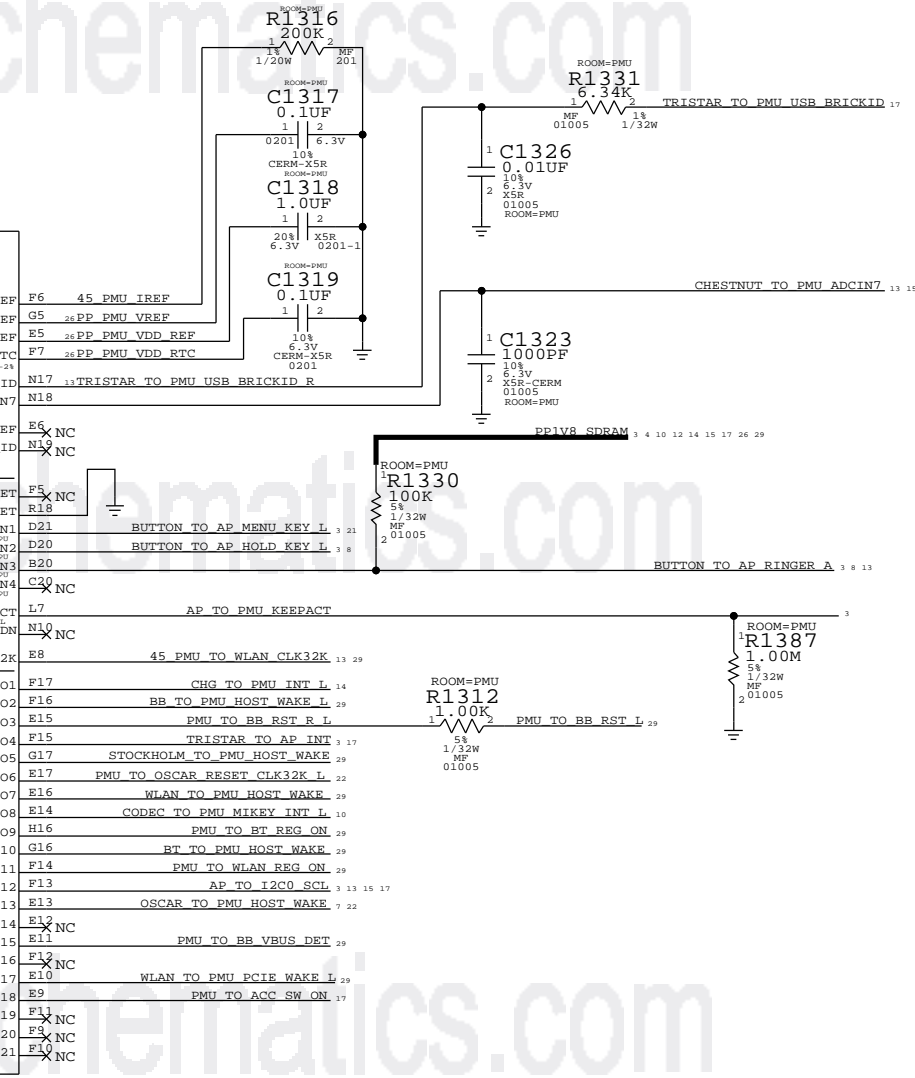
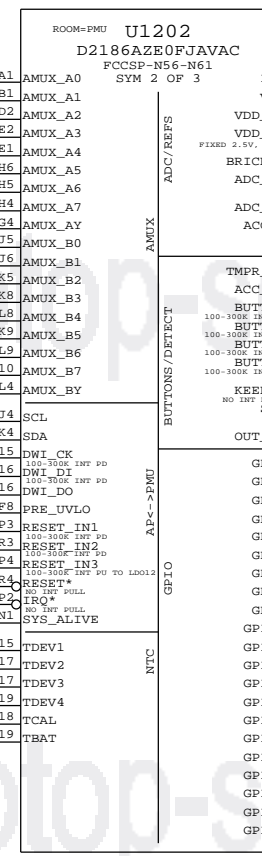
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ROOM=PMU C1365

ROOM=PMU R1309
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ROOM=PMU C1365

ROOM=PMU R1309
ROOM=PMU C1365

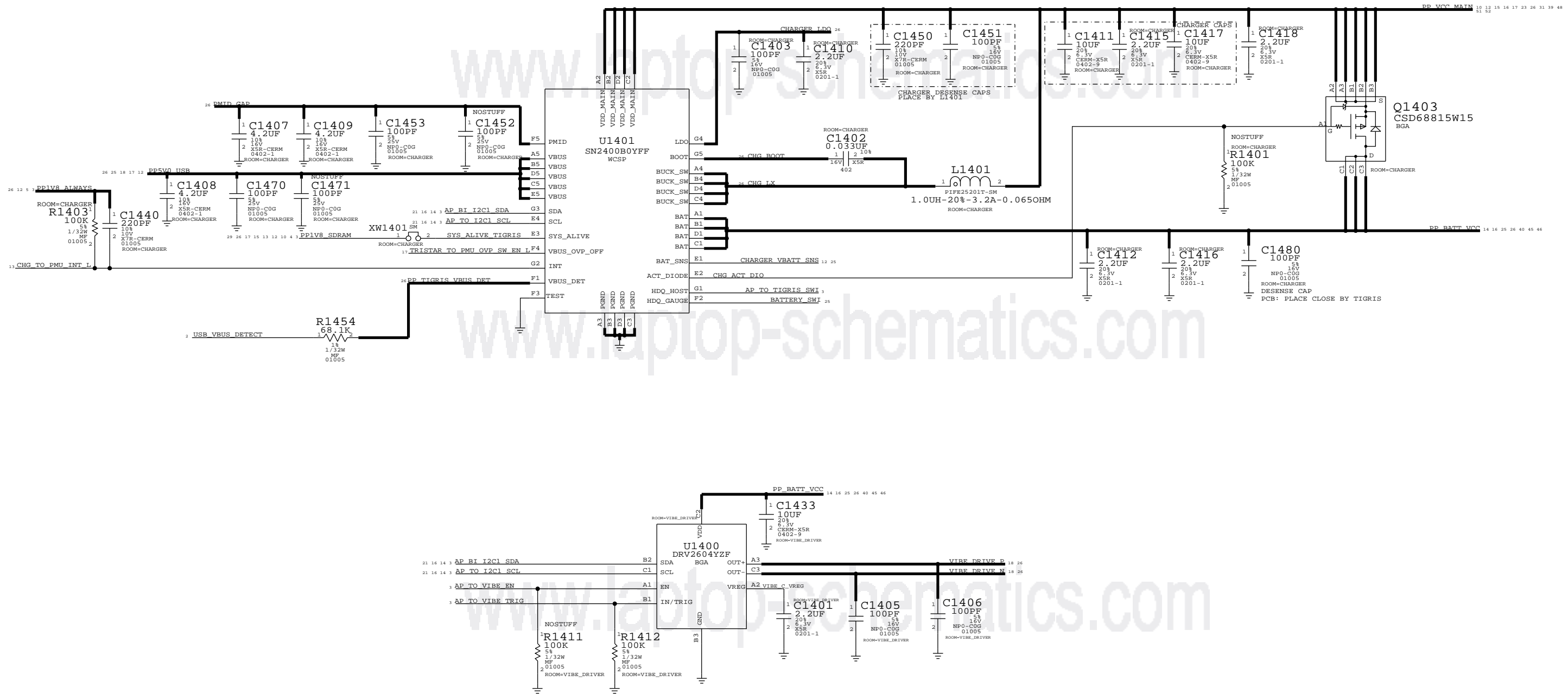
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ROOM=PMU C1365



ADI OTP:
SEE RADAR 14032884

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Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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TIGRIS CHARGER & VIBE DRIVER



DRAWING NUMBER			051-9903		
REVISION			7.0.0		
PAGE			14 OF 55		
SHEET			14 OF 54		

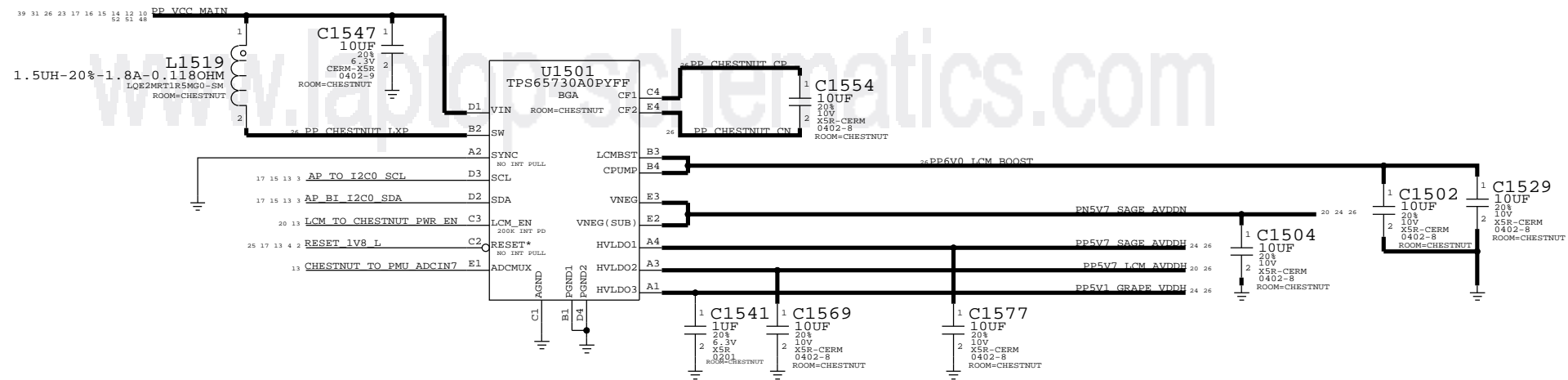
POWER:TIGRISR,VIBE DRIVER

Apple Inc.

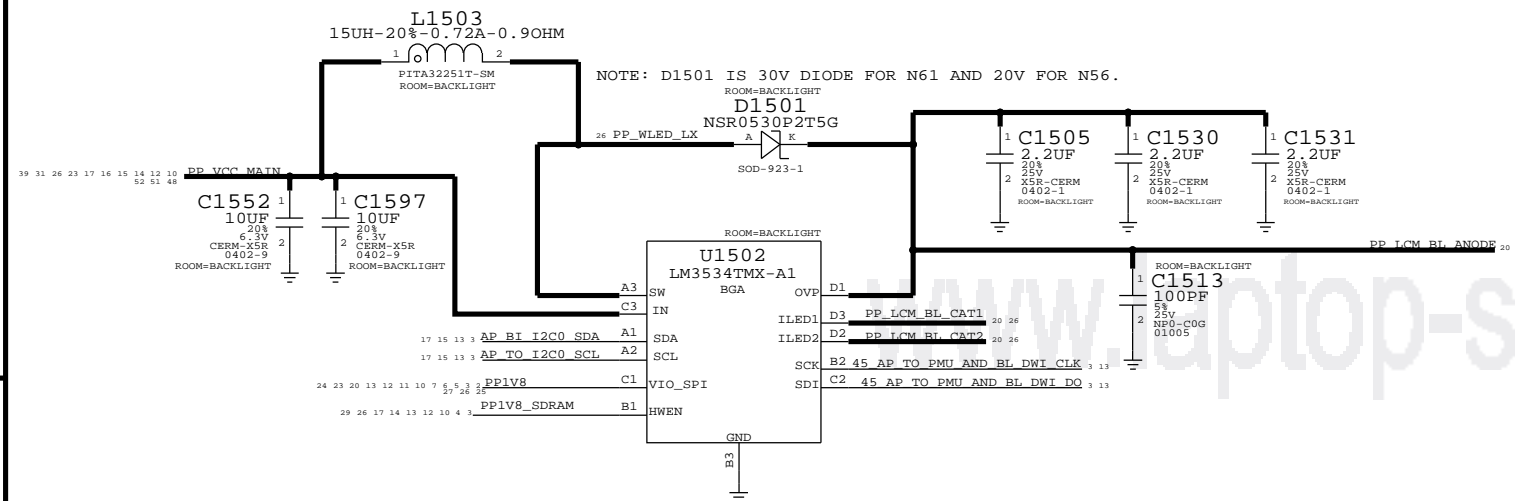
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CHESTNUT, BACKLIGHT DRIVER, MESA BOOST

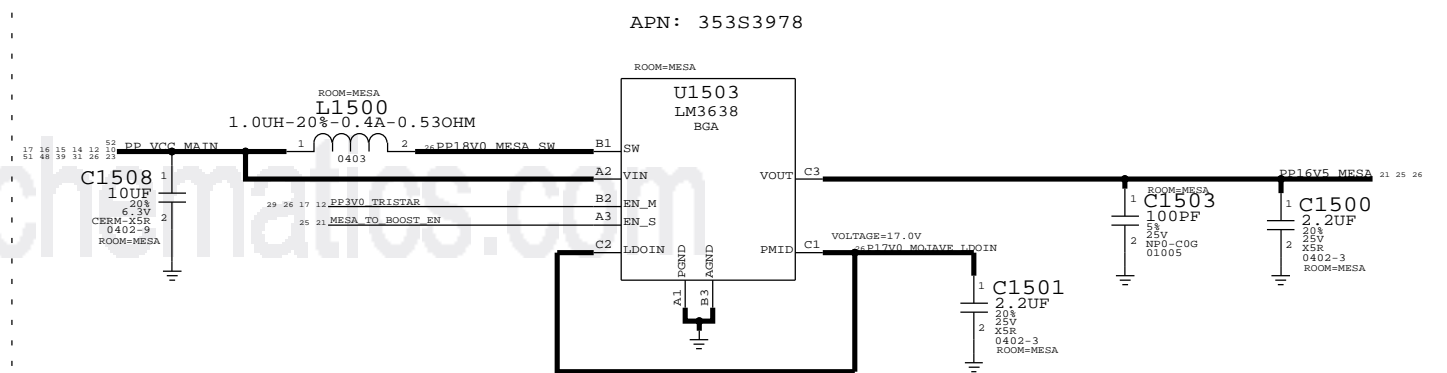
D500 DISPLAY PMU (TI CHESTNUT, 338S1149)



D500 BACKLIGHT DRIVER



MESA BOOST A0

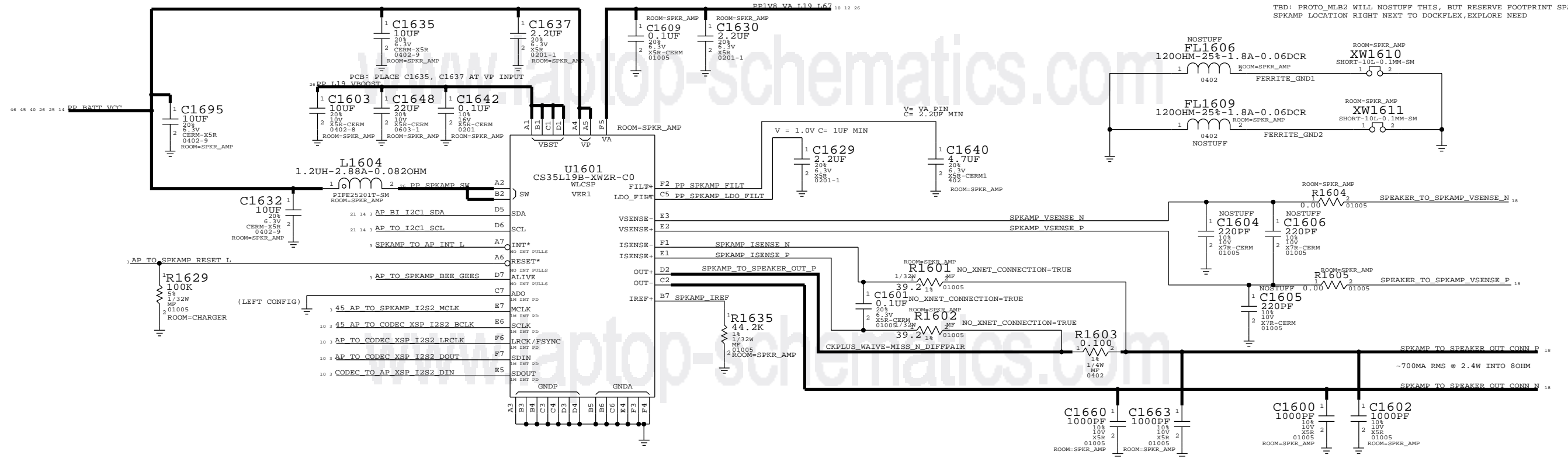


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DRAWING NUMBER		SIZE	
051-9903		D	
REVISION		BRANCH	
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PAGE		SHEET	
15 OF 55		15 OF 54	

SPEAKER AMP, LED DRIVER

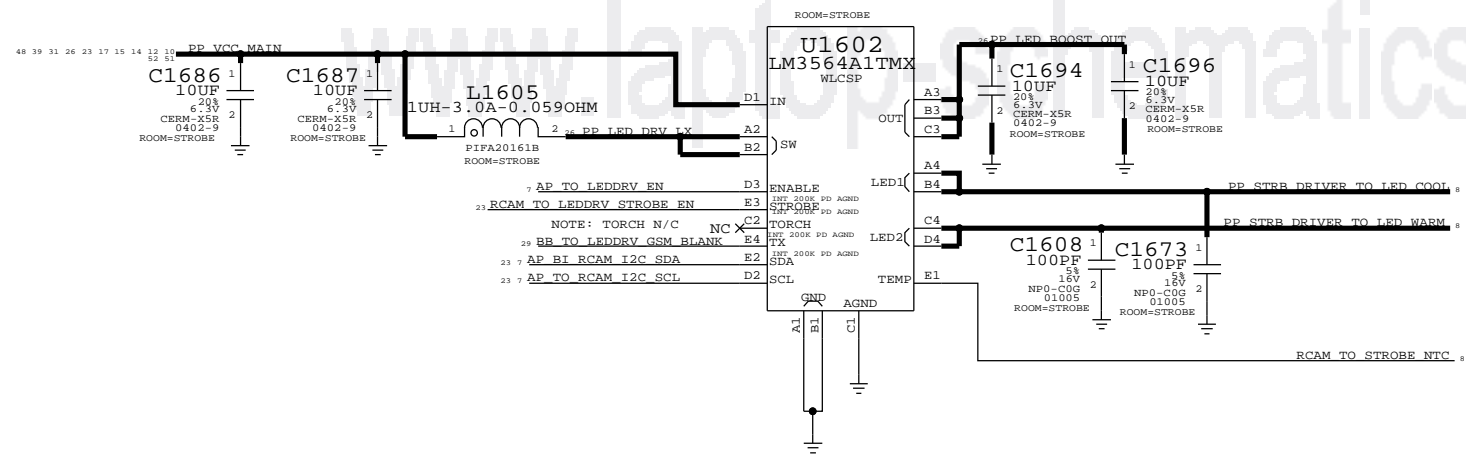
SPEAKER AMP

I2C ADDRESS: 1000000X



STROBE DRIVER

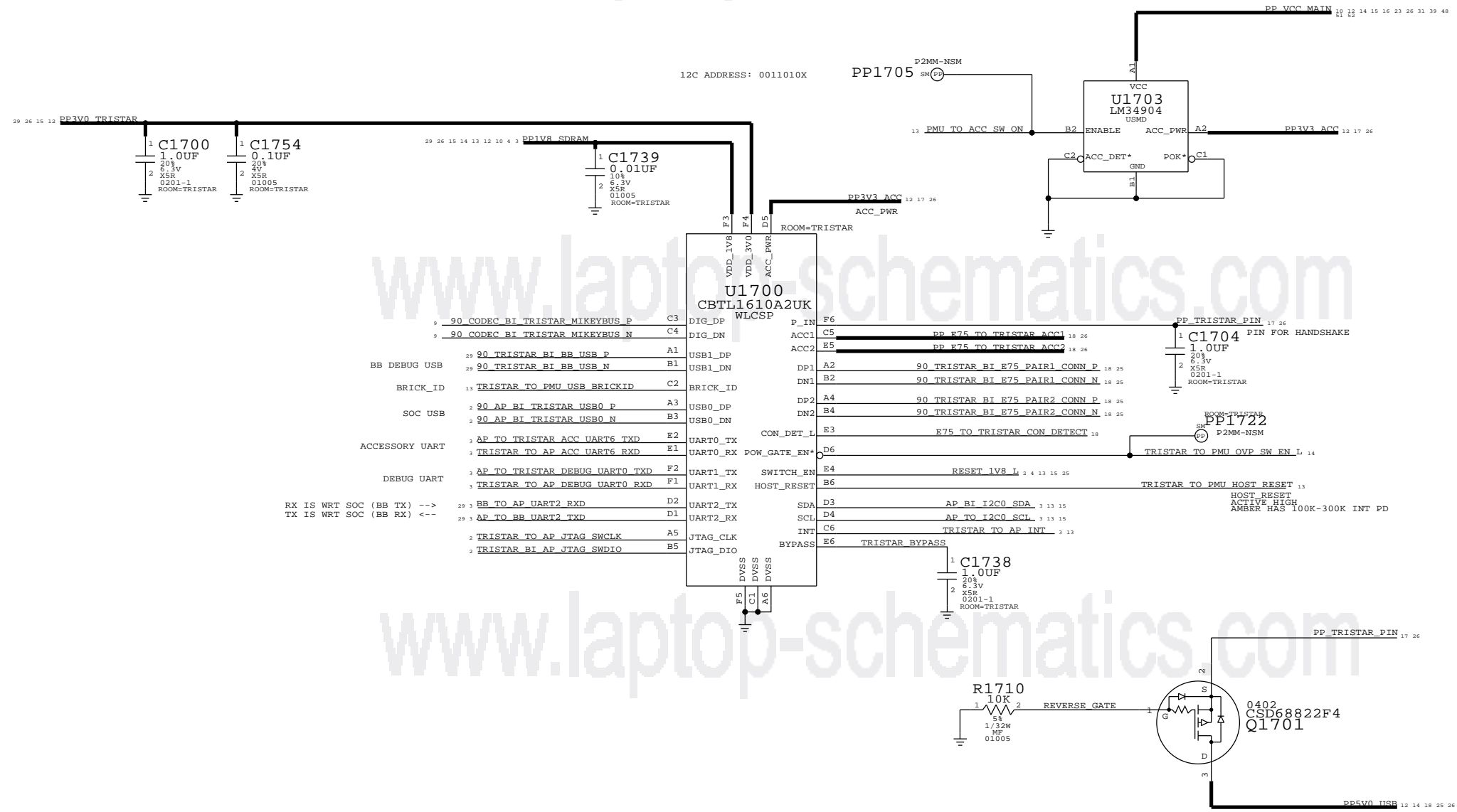
TI: APN 353S3899



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AUDIO:SPKR AMP,STROBE			
DRAWING NUMBER		051-9903	SIZE D
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TRISTAR2

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SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
IO:TRISTAR2			
Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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DOCKFLEX B2B (USB VBUS, SPEAKER, ANTENNA LAT SW CTRL, MIC1 (PRIMARY MIC), ACC DET/ID/PWR, E75 DIFFPAIRS)

MLB: 516S1281 (RCPT)
 ROOM=DOCK_B2B J1817
 24-5859-036-201-829
 F-ST-SM

D
 LOWER MIC1
 (PRIMARY
 VOICE MIC)

C
 HEADPHONE

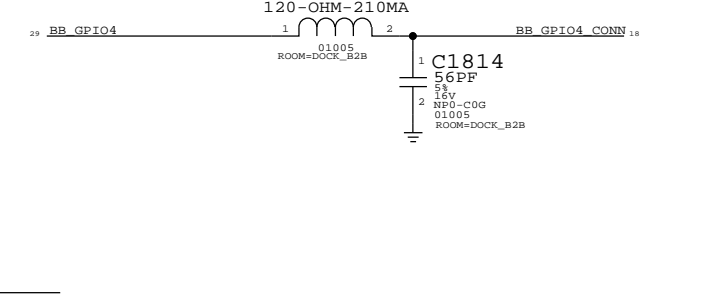
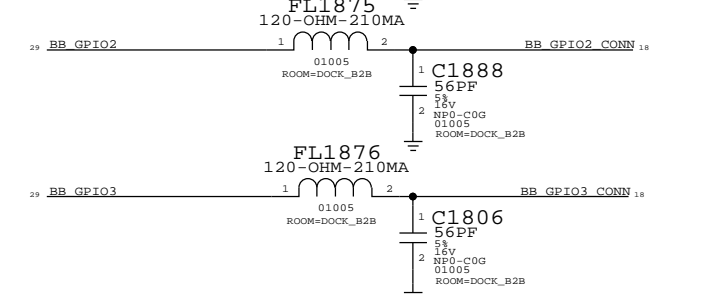
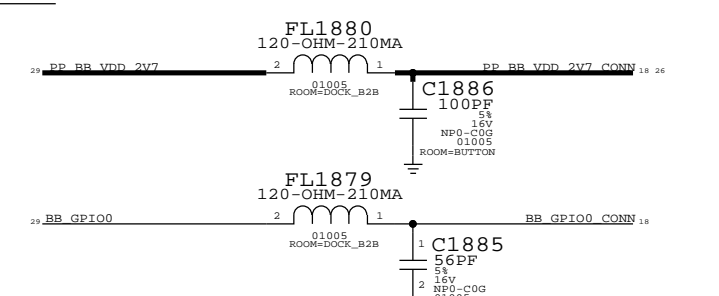
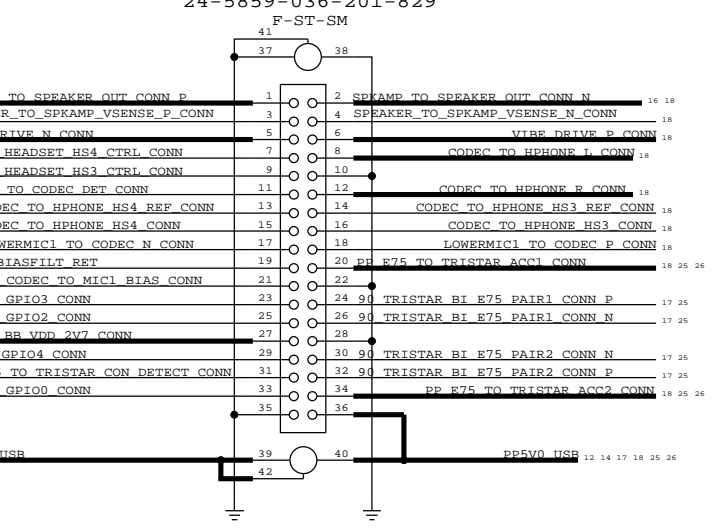
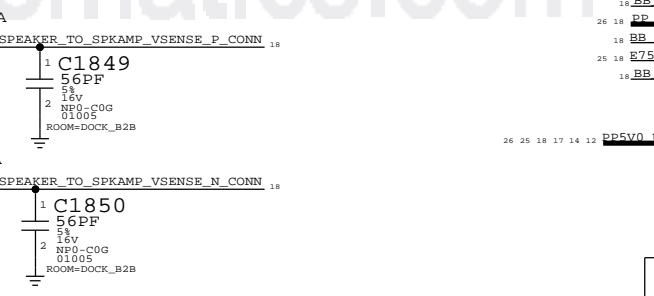
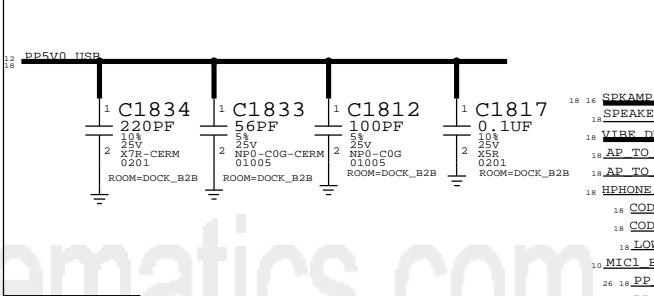
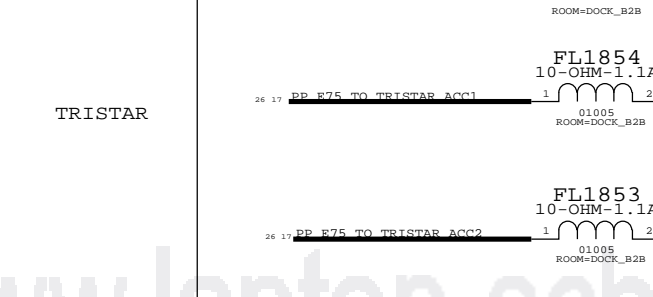
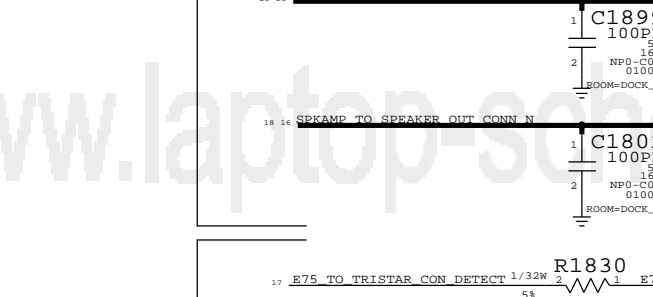
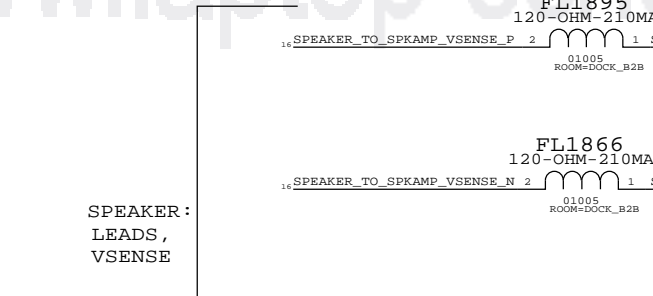
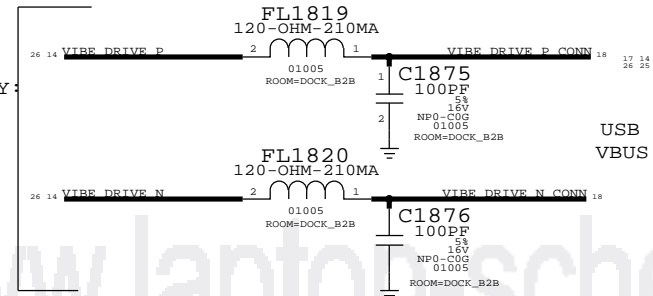
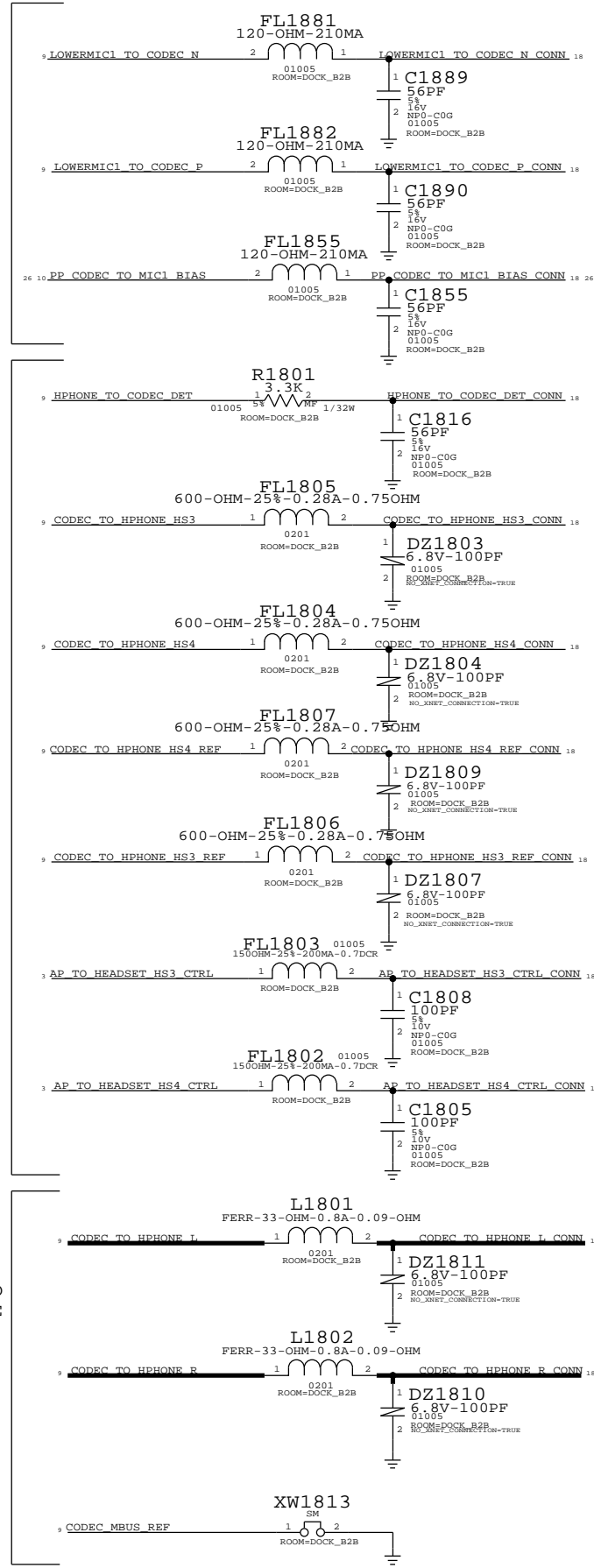
B

A
 CODEC TO
 HEADPHONE

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www.laptop-schematics.com

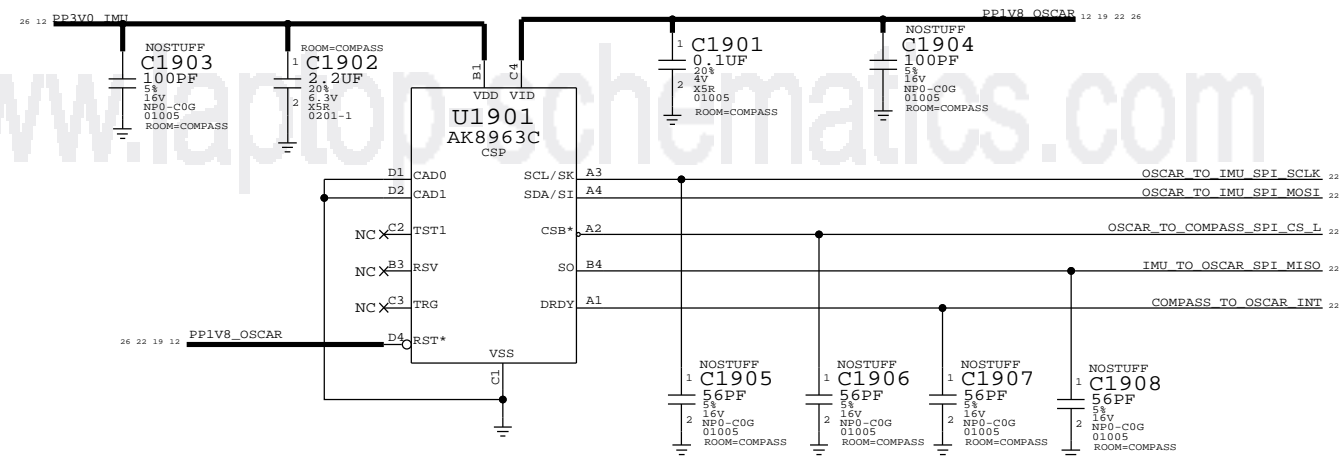


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		PAGE 18 OF 55	SHEET 18 OF 54

COMPASS - AKM COMPASS IN POR LOCATION

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COMPASS CSP: 338S1014



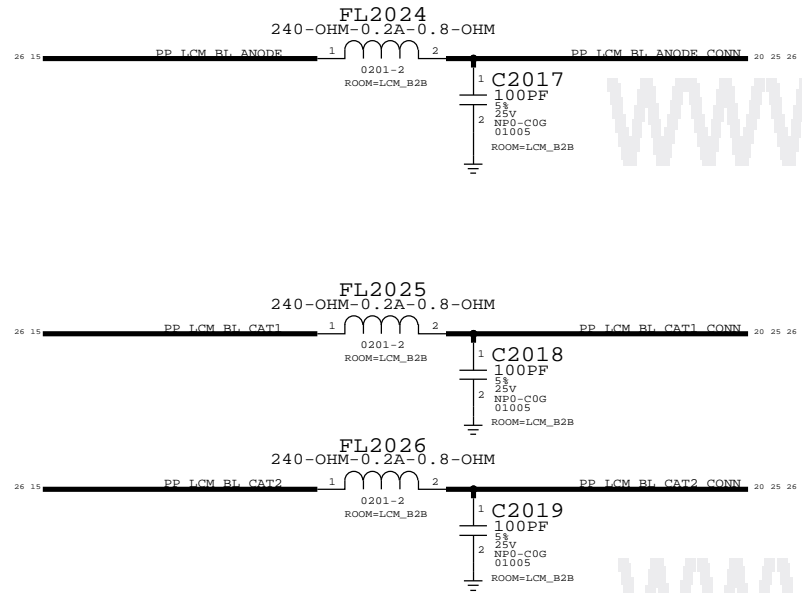
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SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
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Apple Inc.		DRAWING NUMBER	SIZE
		051-9903	D
		REVISION	
		7.0.0	
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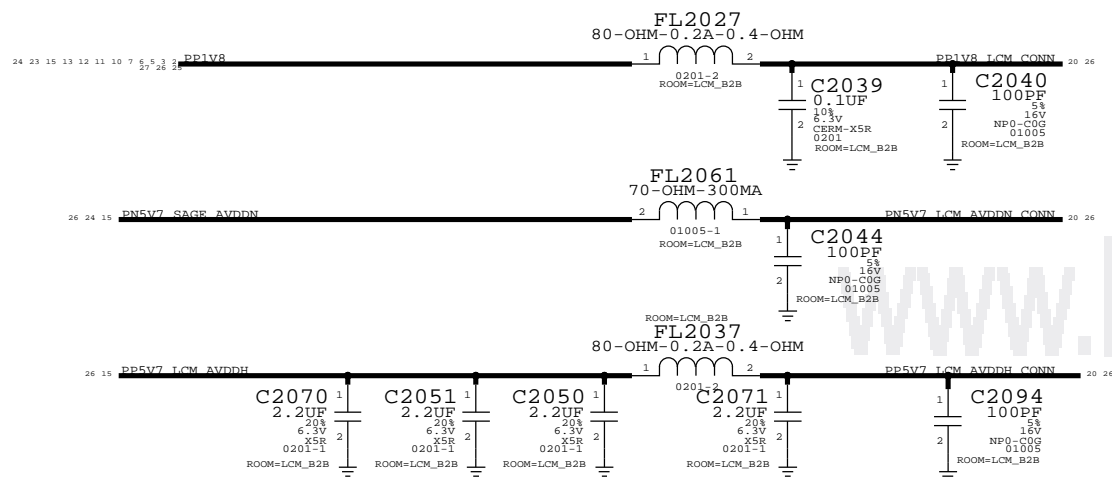
LCD B2B

Backlight

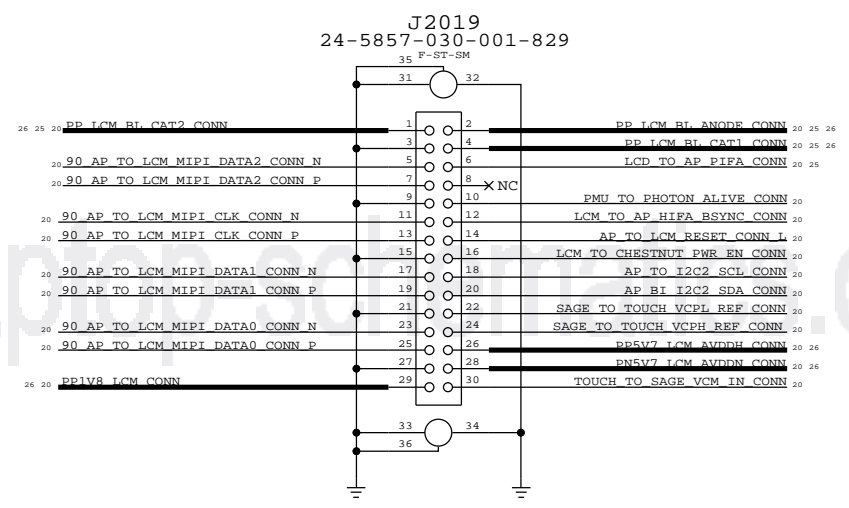
(N56 HAS A 2ND SET OF BL SIGNALS ON P. 19).



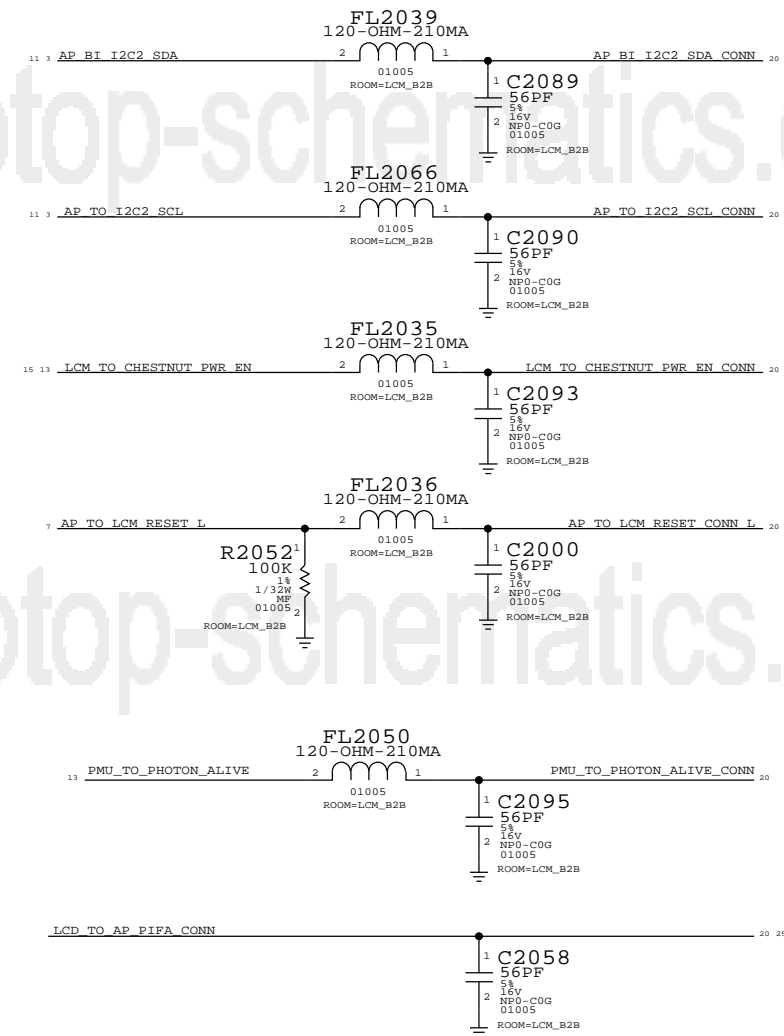
LCM Supplies



THIS ONE ON MLB ---> 516S1164

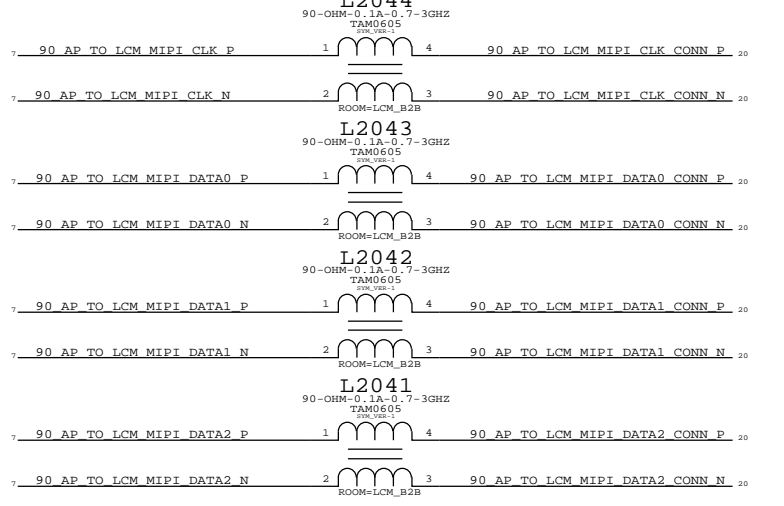


Digital Interfaces

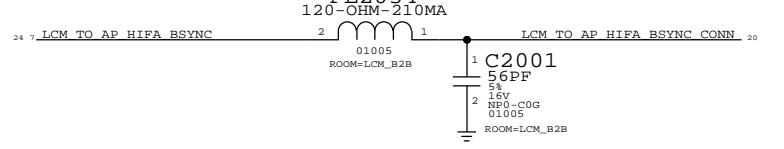


MIPI Common Mode Chokes

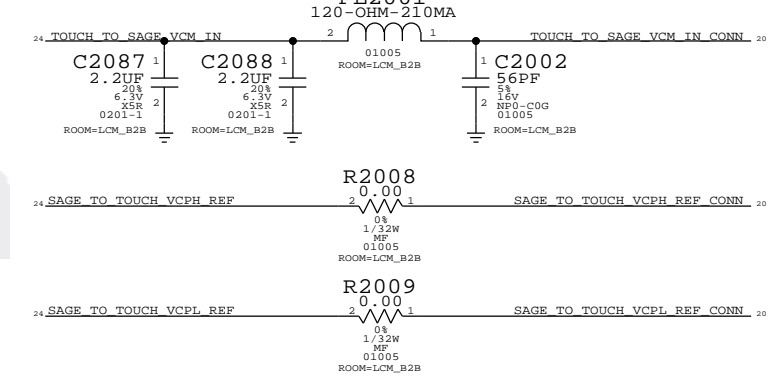
(N56 HAS A 4TH MIPI LANE ON P. 19).



Sync/Reset/Debug



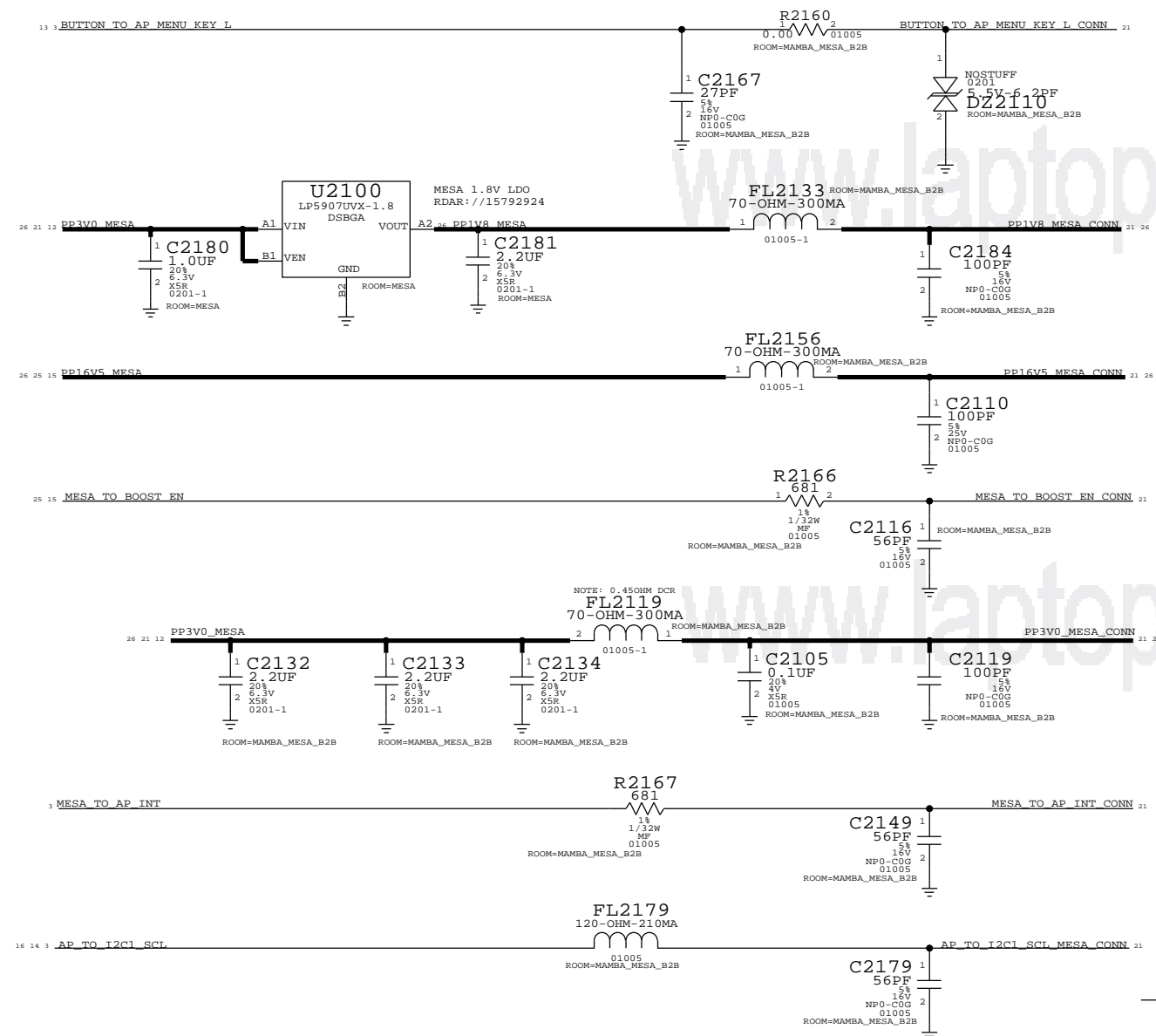
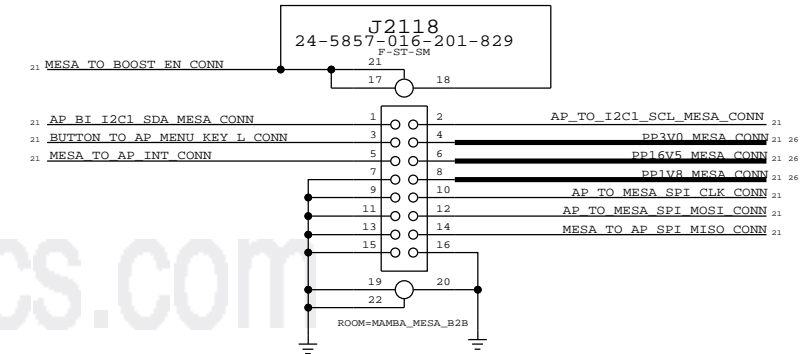
Touch



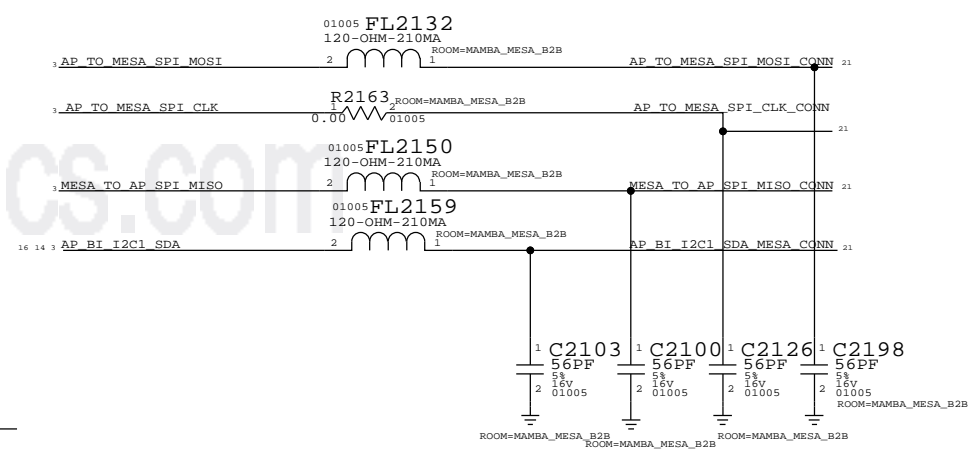
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		SIZE	D

MESA CONNECTOR

MLB: 516S1278



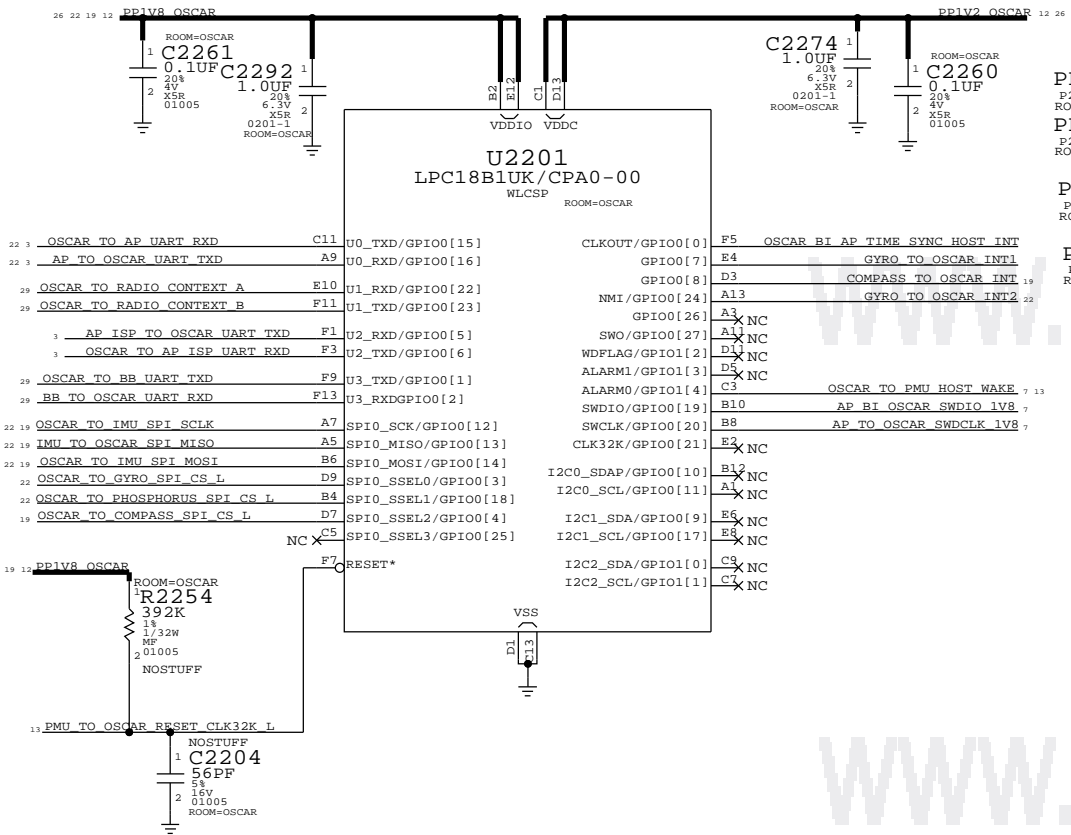
MESA SENSOR:



PAGE TITLE		
SENSORS:MESA FLEX CONN		
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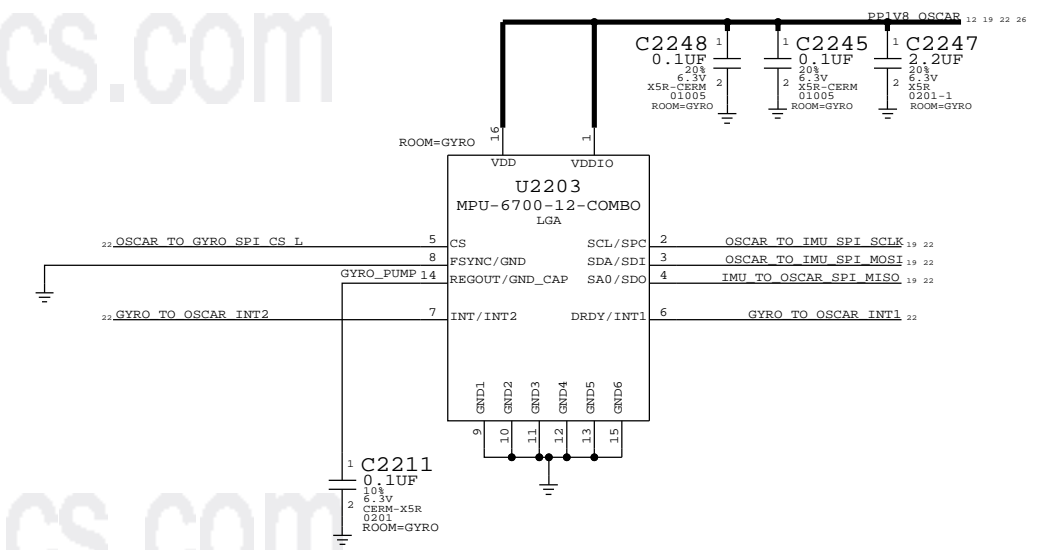
OSCAR + SENSORS

OSCAR VDDIO = 1.8V ALWAYS ON (NEED TO MAKE HOST & RUN PLL)
OSCAR CORE = 1.2V ALWAYS ON (NEED TO RUN IN SRAM)

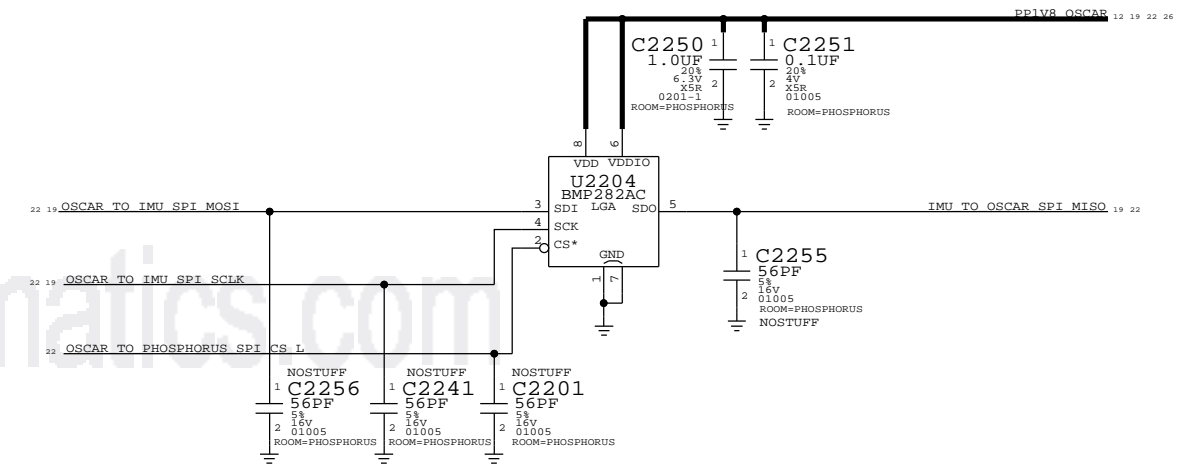


CARBON (ACCEL GYRO COMBO)

INVENSENSE, APN 338S00017, C2211=0.1uF
 BOSCH, APN 338S00028, C2211=0.1uF
 ST, APN 338S00029, C2211=0.01uF,25V



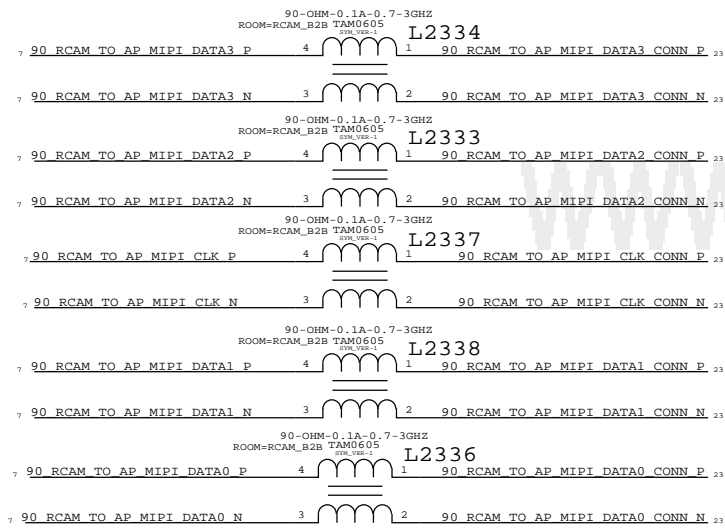
THIS IS OUTSIDE OF SHIELD IN
TO THE RIGHT OF THE NAND
PHOSPHORUS



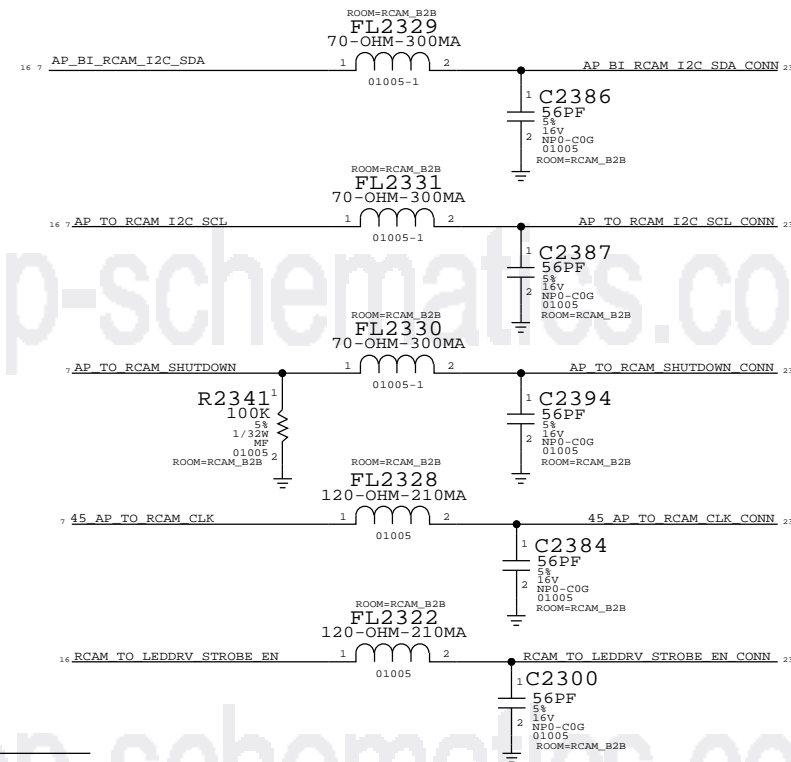
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RCAM B2B (REAR CAMERA CONNECTOR)

RCAM:
4-LANE MIPI

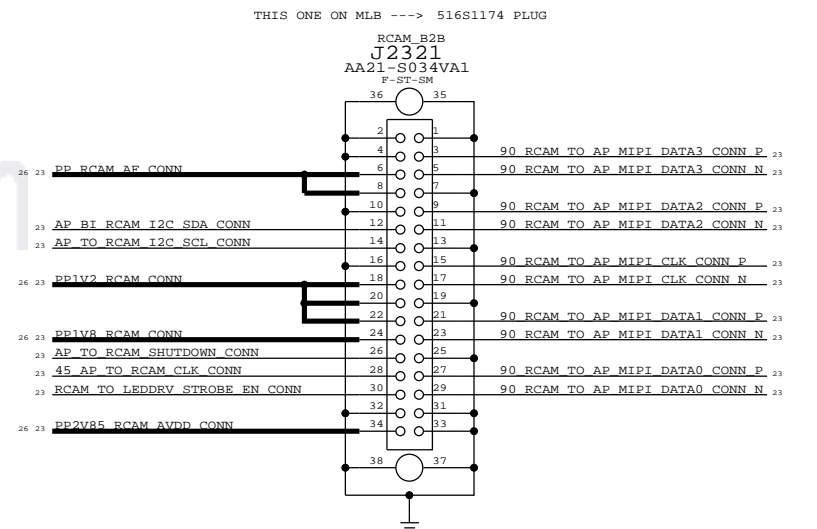
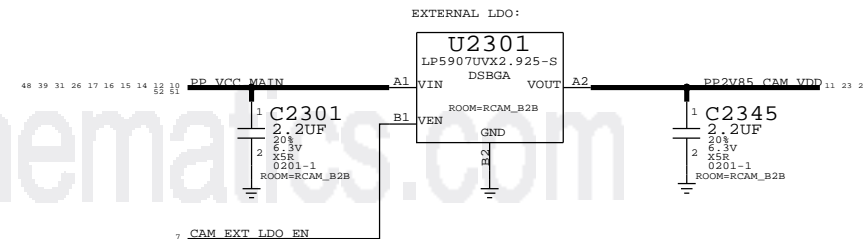
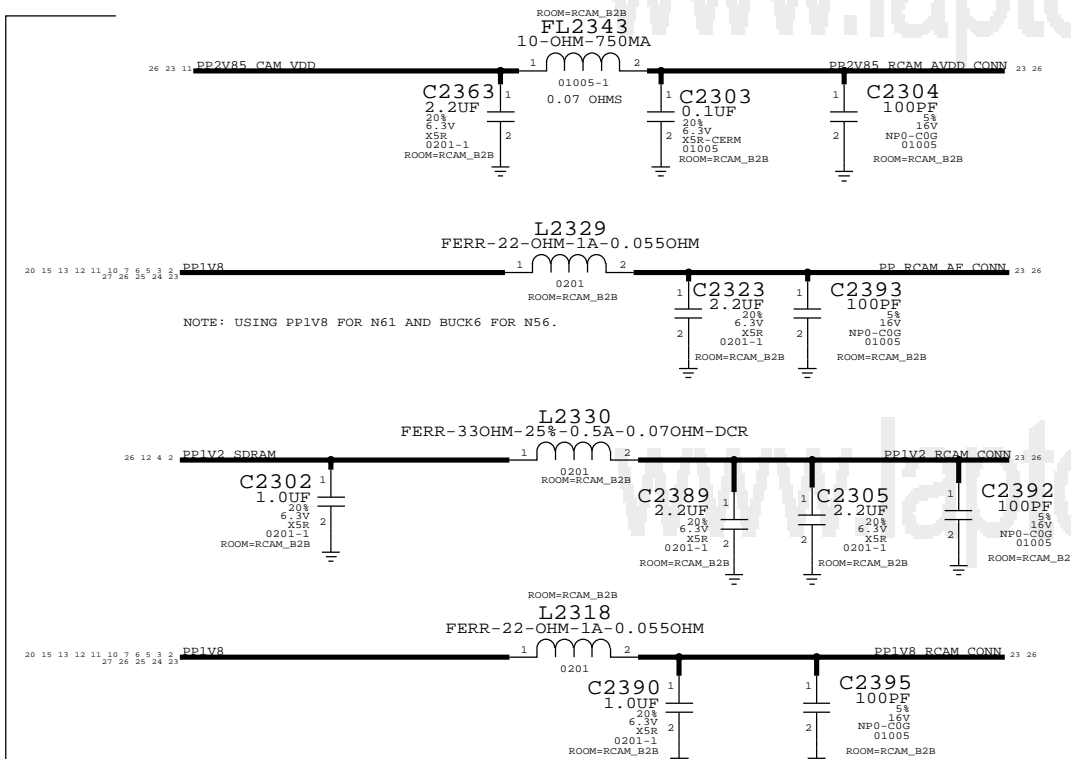


RCAM:
DIGITAL I/F
(I2C, CTRL, CLK)



RCAM/FCAM AVDD RAIL EXT. LDO:

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



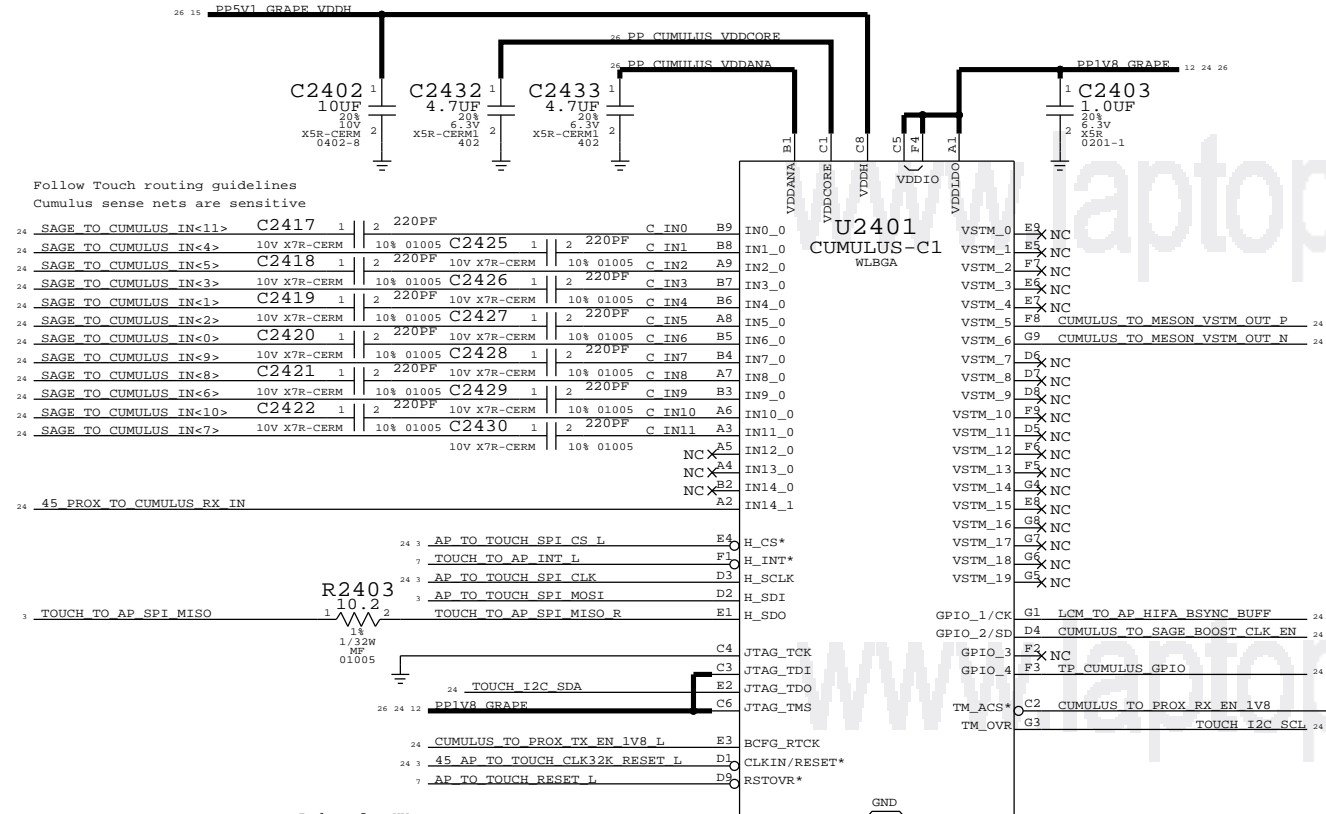
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CAMERA:REAR FLEX CONN			
Apple Inc.		DRAWING NUMBER	051-9903
		REVISION	7.0.0
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Touch (B2B, Driver ICs)

Cumulus

APN: 343S0638

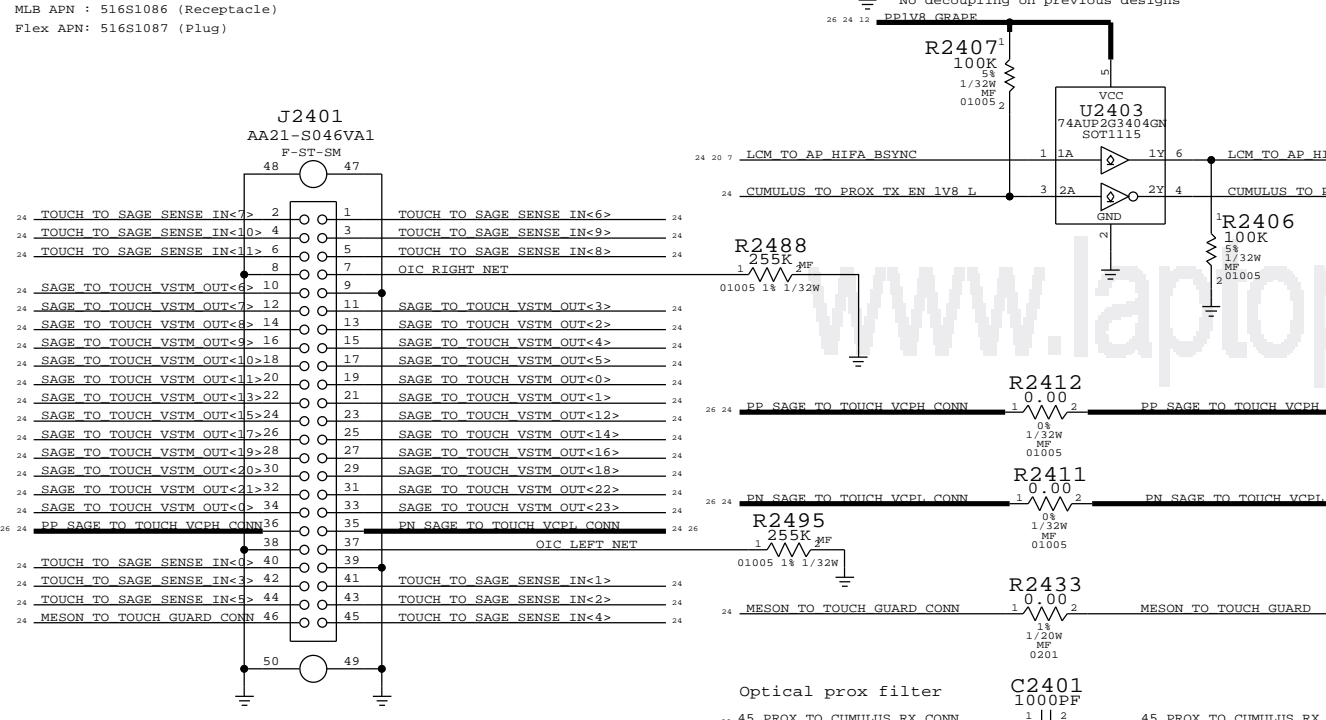
Turn on is later than PPIV8_GRAPE
Turn off is same time as PPIV8_GRAPE



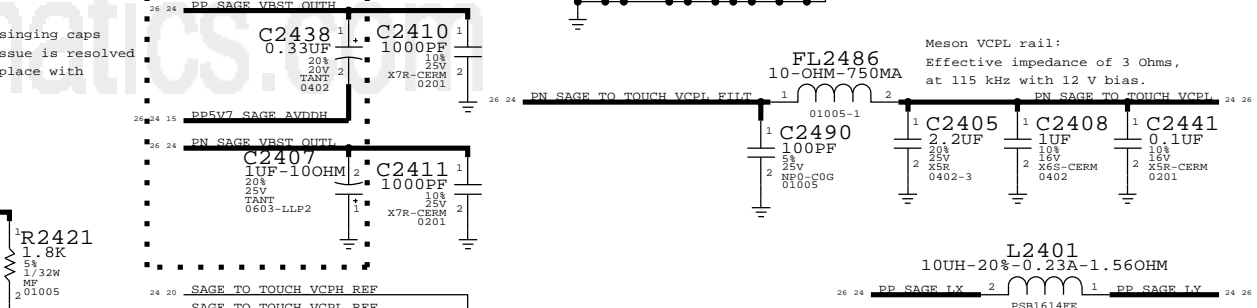
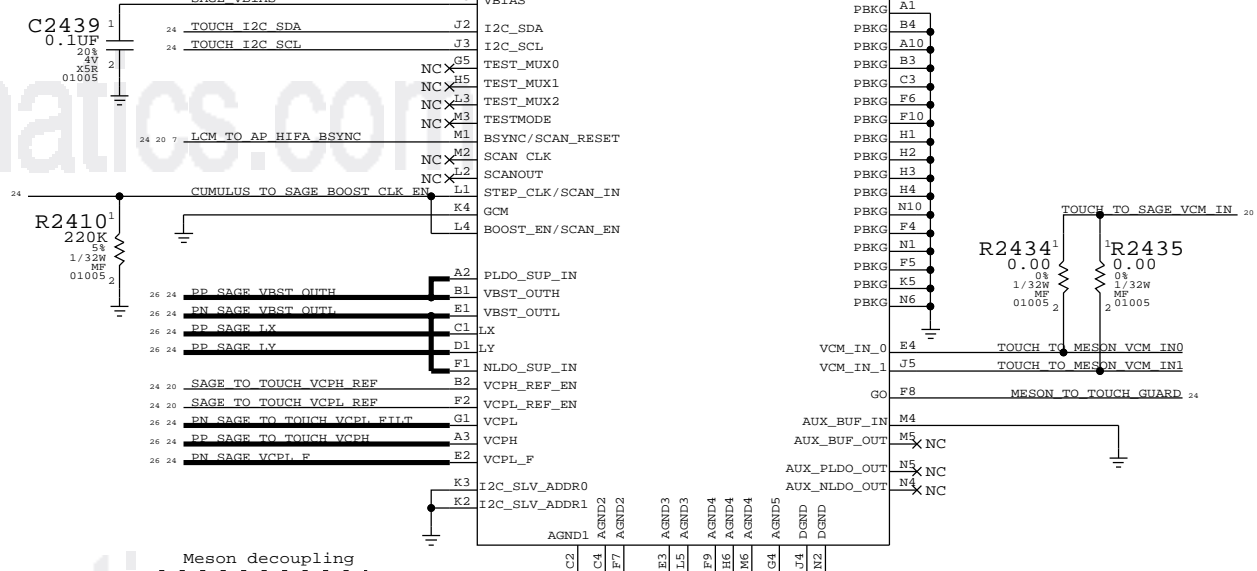
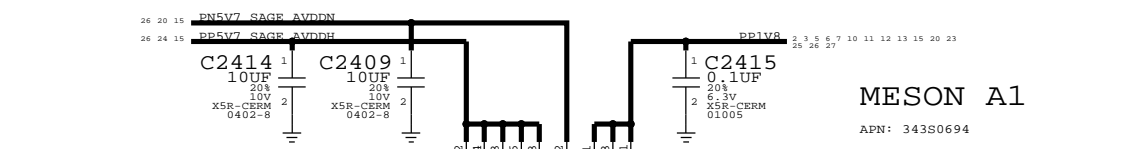
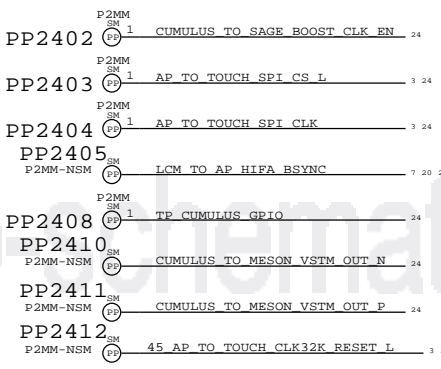
Touch B2B

MLB APN : 516S1086 (Receptacle)
Flex APN: 516S1087 (Plug)

Radars for XM
rdar://12773579
rdar://12611242

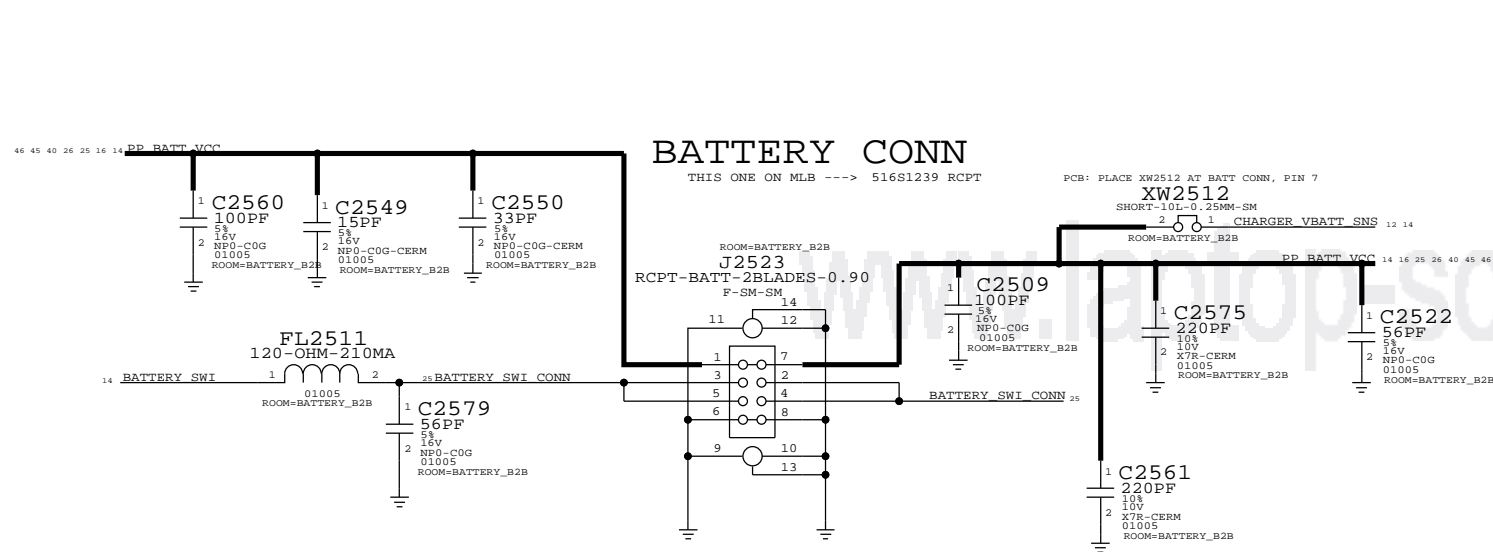


Touch probe points

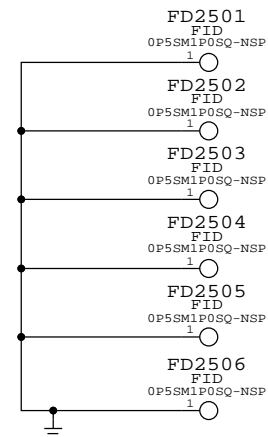


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TOUCH : CUMULUS , MESON			
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		PAGE	24 OF 55
		SHEET	24 OF 54

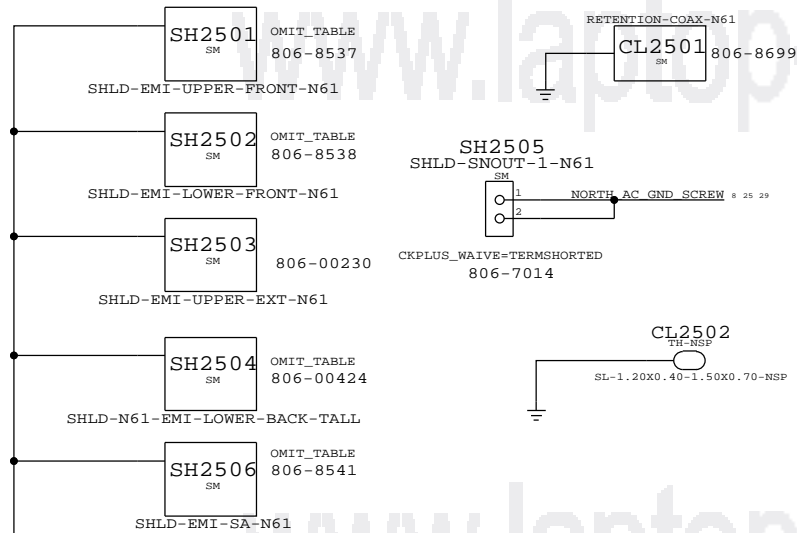
BATT CONN, TPS, STANDOFFS / SHIELDS / FIDUCIALS



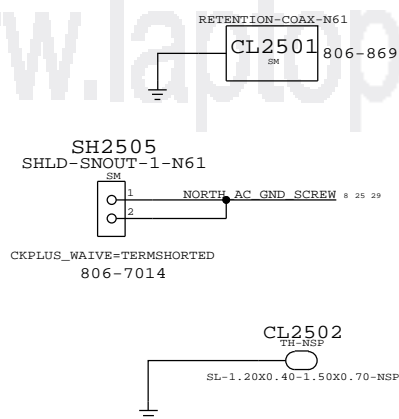
FIDUCIALS



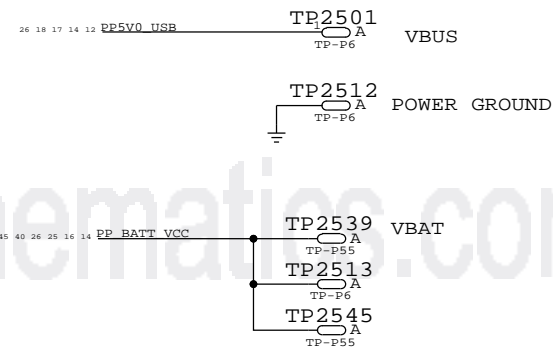
SHIELDS



COWLING

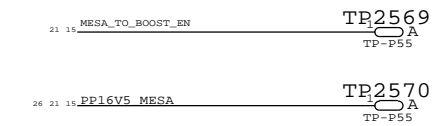


POWER TP

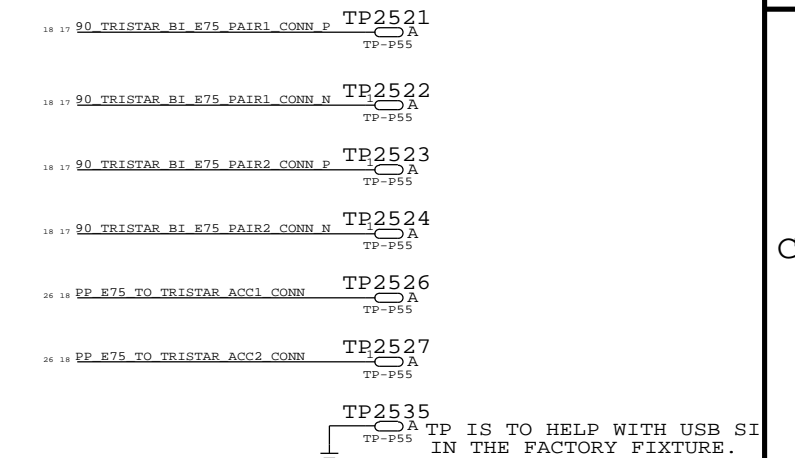


TESTPOINTS

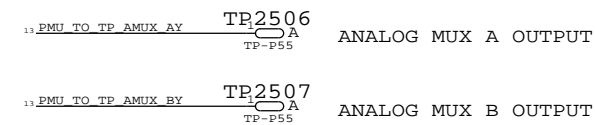
MOJAVE TP



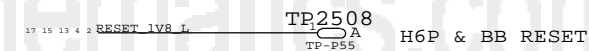
E75 - USB/UART/ID/POWER



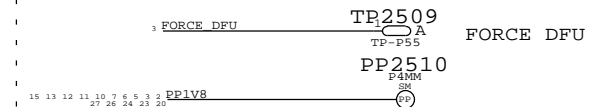
SUPER TP



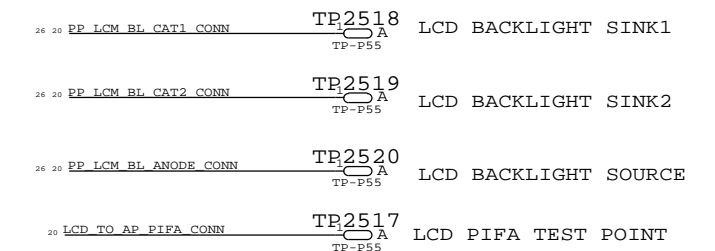
RESET



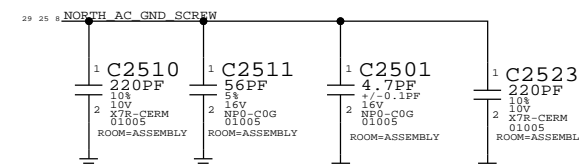
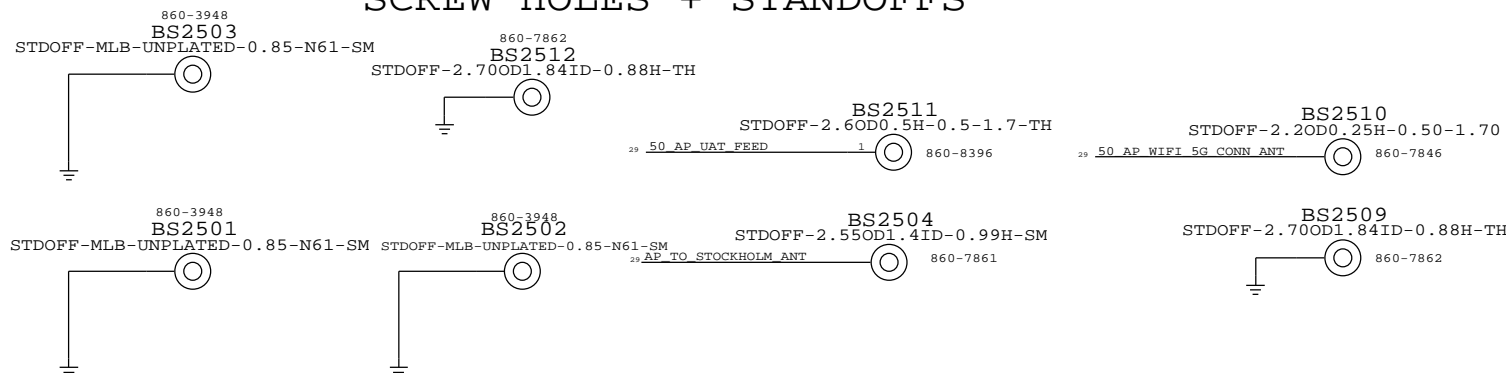
DFU



LCM BACKLIGHT



SCREW HOLES + STANDOFFS



SYNC MASTER=N61 MLB		SYNC DATE=08/26/2013	
PAGE TITLE POWER: BATT CONN, TPS, PD FEATURES			
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		REVISION 7.0.0	BRANCH
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VOLTAGE PROPERTIES

PP3V3 USB	VOLTAGE=3.3V	2 12
PP1V8 VA I19 I67	VOLTAGE=1.8V	10 12 16
PP3V0 TRISTAR	VOLTAGE=3.0V	12 15 17 29
PP3V0 TMI	VOLTAGE=3.0V	12 19
PP3V0 NAND	VOLTAGE=3.0V	6 12
PP3V3 ACC	VOLTAGE=3.0V	12 17
PP3V0 PROX AIS	VOLTAGE=3.0V	11 12
PP VCC MAIN	VOLTAGE=4.6V	10 12 14 15 16 17 23 31 39
PP1V0	VOLTAGE=1.0V	7 12
PP3V0 PROX TRIPD	VOLTAGE=3.0V	11 12
PP1V8 ALWAYS	VOLTAGE=1.8V	3 5 12 14
PP3V0 MESA	VOLTAGE=3.0V	12 21
PP_CPH	VOLTAGE=1.1V	4 12
PP_GPU	VOLTAGE=1.1V	4 12
PP1V2 SDRAM	VOLTAGE=1.2V	2 4 12 23
PP1V8 SDRAM	VOLTAGE=1.8V	3 4 10 12 13 14 15 17 29
PP1V8	VOLTAGE=1.8V	3 4 5 7 10 11 12 13 15 20 23
PP1V8 GRAPE	VOLTAGE=1.8V	12 24
PP1V8 OSCAR	VOLTAGE=1.8V	12 19 22
PP1V2 NAND VDDT	VOLTAGE=1.2V	6
PP_EXTMIC_BIAS_FILT_IN	VOLTAGE=1.8V	10
BOARD_ID2	VOLTAGE=1.8V	3 27
PP1V2	VOLTAGE=1.2V	3 4 5 11 12
PP_E75_TO_TRISTAR_ACC1_CONN	VOLTAGE=5.0V	18 25
PP_E75_TO_TRISTAR_ACC1	VOLTAGE=5.0V	17 18
PP_LCM_BL_ANODE	VOLTAGE=22.0V	15 20
PP_LCM_BL_CAT2	VOLTAGE=0.2V	15 20
PP_LCM_BL_CAT1	VOLTAGE=0.2V	15 20
PP_LCM_BL_CAT2_CONN	VOLTAGE=0.2V	20 25
PP_LCM_BL_CAT1_CONN	VOLTAGE=0.2V	20 25
PP5V7 SAGE AVDDN	VOLTAGE=-5.7V	15 20 24
PP1V2 OSCAR	VOLTAGE=1.2V	12 22
PP3V0 MESA_CONN	VOLTAGE=3.0V	21
PP6V0 LCM BOOST	VOLTAGE=6V	15
PP_STRB_DRIVER_TO_LED_WARM	VOLTAGE=5.0V	8 16
PP_STRB_DRIVER_TO_LED_COOL	VOLTAGE=5.0V	8 16
PP_CODEC_TO_MIC1_BIAS	VOLTAGE=1.8V	10 18
PP_EXTMIC_BIAS_FILT_IN	VOLTAGE=1.8V	10
PP_EXTMIC_BIAS_FILT	VOLTAGE=1.8V	10
PP_CODEC_TO_FRONTMIC_BIAS	VOLTAGE=1.8V	10 11
PP_CODEC_TO_REARMIC2_BIAS	VOLTAGE=1.8V	8 10
PP_CODEC_FILT+	VOLTAGE=1.8V	10
PP_CODEC_SPKR_VO	VOLTAGE=2.2V	10
PP_CODEC_VCPBLT-	VOLTAGE=2.5V	10
PP_CODEC_VCPBLT+	VOLTAGE=2.5V	10
PP_CODEC_VHP_FLN	VOLTAGE=2.5V	10
PP_CODEC_VHP_FLN2	VOLTAGE=0.2V	10
PP_CODEC_VHP_FLN3	VOLTAGE=2.5V	10
PP1V8 ECAM_CONN	VOLTAGE=1.8V	11
PP2V85 ECAM AVDD_CONN	VOLTAGE=3.0V	11
PP_CODEC_TO_FRONTMIC1_BIAS_CONN	VOLTAGE=1.8V	11
PP3V0 ALS_CONN	VOLTAGE=3.0V	11
PP1V2 ECAM VDDIO_CONN	VOLTAGE=1.2V	11
PP5V0 USB	VOLTAGE=5.0V	12 14 17 18 25
PP5V0 USB TO PMU	VOLTAGE=5.0V	12
PP_BUCK5_LX0	VOLTAGE=4.6V	12
PP_BUCK3_LX	VOLTAGE=4.6V	12
PP_BUCK4_LX	VOLTAGE=4.6V	12
PP_BUCK2_LX	VOLTAGE=4.6V	12
PP_BUCK1_LX1	VOLTAGE=4.6V	12
PP_BUCK1_LX0	VOLTAGE=4.6V	12
PP_BUCK0_LX3	VOLTAGE=4.6V	12
PP_BUCK0_LX2	VOLTAGE=4.6V	12
PP_BUCK0_LX1	VOLTAGE=4.6V	12
PP_BUCK0_LX0	VOLTAGE=4.6V	12
PP_CHESTNUT_LXP	VOLTAGE=6.0V	15
PP_CHESTNUT_CP	VOLTAGE=6.0V	15
PP_CHESTNUT_CN	VOLTAGE=6.0V	15
PP5V7 SAGE AVDDH	VOLTAGE=5.7V	15 24
PP5V7 LCM AVDDH	VOLTAGE=5.7V	15 20
PP5V1 GRAPE VDDH	VOLTAGE=5.1V	15 24
PP_NLED_LX	VOLTAGE=22.0V	15
PP18V0 MESA_SW	VOLTAGE=18.0V	15
PP17V0 MESA_SW	VOLTAGE=17.0V	15
PP16V5 MESA	VOLTAGE=16.5V	15 21 25
PP_SPKAMP_SW	VOLTAGE=8.0V	16
PP_I19_VBOOST	VOLTAGE=8.0V	16
PP_SPKAMP_FILT	VOLTAGE=1.8V	16
PP_SPKAMP_I2O_FILT	VOLTAGE=1.8V	16
PP_LED_DRV_LX	VOLTAGE=5.0V	16
PP_LED_BOOST_OUT	VOLTAGE=5.0V	16
PP2V9 LDO9	VOLTAGE=2.9V	12
PP_CODEC_TO_MIC1_BIAS_CONN	VOLTAGE=1.8V	18
PP_E75_TO_TRISTAR_ACC2	VOLTAGE=4.6V	17 18
PP_E75_TO_TRISTAR_ACC2_CONN	VOLTAGE=4.6V	18 25
PP1V8 LCM_CONN	VOLTAGE=1.8V	20
PP_LCM_BL_ANODE_CONN	VOLTAGE=22.0V	20 25
PP5V7 LCM AVDDN_CONN	VOLTAGE=-5.7V	20
PP5V7 LCM AVDDH_CONN	VOLTAGE=5.7V	20
PP1V8 MESA	VOLTAGE=1.8V	21
PP16V5 MESA_CONN	VOLTAGE=16.5V	21
PP_TRISTAR_PIN	VOLTAGE=5.0V	17
PP1V2 ECAM_CONN	VOLTAGE=1.2V	23
PP1V8 ECAM_CONN	VOLTAGE=1.8V	23
PP2V85 CAM_VDD	VOLTAGE=3.0V	11 23
PP2V85 ECAM AVDD_CONN	VOLTAGE=1.8V	23
PP_CUMULUS_VDDCORE	VOLTAGE=1.8V	24
PP_CUMULUS_VDDANA	VOLTAGE=1.2V	24
PP_SAGE_TO_TOUCH_VCPH_CONN	VOLTAGE=13.5V	24
PP_SAGE_TO_TOUCH_VCPH	VOLTAGE=-12V	24
PP_SAGE_TO_TOUCH_VCPH_CONN	VOLTAGE=13.5V	24
PP_SAGE_TO_TOUCH_VCPH	VOLTAGE=-12V	24
PP_SAGE_VCPH_F	VOLTAGE=-12V	24
PP_SAGE_LX	VOLTAGE=5.7V	24
PP_SAGE_LX	VOLTAGE=17.0V	24
PP_PMU_VREF	VOLTAGE=1.8V	13
PP_SAGE_VBST_OUTH	VOLTAGE=14V	24
PP_TIGRIS_VBUS_DET	VOLTAGE=5.0V	14
PP1V8_FLL	VOLTAGE=1.8V	10
PP_MIPIOD_VREG	VOLTAGE=2.5V	13
BOARD_ID0	VOLTAGE=1.8V	10
PP_PMU_VDD_RBE	VOLTAGE=1.8V	10
PP_EXTMIC_BIAS	VOLTAGE=1.8V	10
PP1V8_XTAL	VOLTAGE=1.8V	2
PP_PMU_VDD_RTC	VOLTAGE=1.8V	13
PP_BATT_VCC	VOLTAGE=4.6V	14 16 25 40 45 46
PP1V8 MESA_CONN	VOLTAGE=1.8V	21
PP3V0 PROX_CONN	VOLTAGE=3.0V	11
PP0V95 FIXED SOC	VOLTAGE=1.0V	4 7 12
PP0V95 FIXED SOC_PCIE	VOLTAGE=1.0V	7
PP1V2_PLL	VOLTAGE=1.2V	2
PP_BUCK5_LX1	VOLTAGE=1.0V	12
PP_VAP_SOC	VOLTAGE=1.0V	5 12
PPMID_CAP	VOLTAGE=5.0V	14
CHARGER_LDO	VOLTAGE=5.0V	14
CHG_BOOT	VOLTAGE=4.6V	14
CHG_LX	VOLTAGE=4.6V	14
VIBR_DRIVE_P	VOLTAGE=3.0V	14 18
VIBR_DRIVE_N	VOLTAGE=3.0V	14 18
PP_ECAM_AE_CONN	VOLTAGE=1.8V	23
PP_SAGE_VBST_OUTH	VOLTAGE=-14.0V	24
PP_SAGE_TO_TOUCH_VCPH_FILT	VOLTAGE=-12.0V	24
PP_BB_VDD_2V7_CONN	VOLTAGE=2.7V	18

PAGE TITLE		DRAWING NUMBER		SIZE
SYSTEM:VOLTAGE PROPERTIES		051-9903		D
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N61 SPECIFIC

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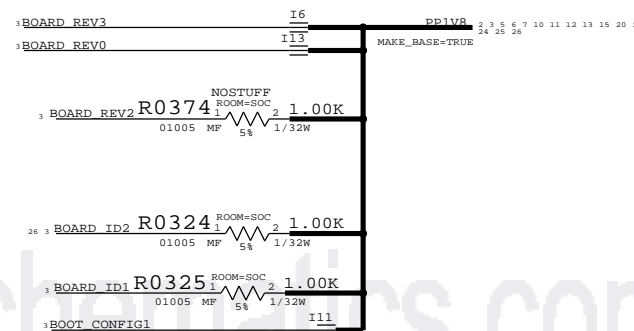
BOOTSTRAPPING (BOARD_REV, BOARD_ID, BOOT_CFG)

www.laptop-schematics.com

```
BOARD_REV[3:0]={GPIO34, GPIO35, GPIO36, GPIO37}
FLOAT=LOW, PULLUP=HIGH
1111 PROTOMLB1
1110 PROTOMLB2
1101 PROTO1
1100 PROTO2
1011 EVT
1010 EVT SPLIT CARBON DOE
1001 CARRIER BUILD <--- SELECTED
1000 DVT
```

```
BOARD_ID[4:0]={GPIO29, GPIO16, SPI0_MISO, SPI0_MOSI, SPI0_SCLK}
FLOAT=LOW, PULLUP=HIGH
00100 N56, T133 MLB
00101 N56 DEV
00110 FIJI N61 MLB <--- SELECTED
```

```
BOOT_CONFIG[2:0]={GPIO28, GPIO25, GPIO18}
FLOAT=LOW, PULLUP=HIGH
000 SPI0
001 SPI0 TEST MODE
010 NAND <--- SELECTED
011 NAND TEST MODE
100 NVME
101 NVME TEST MODE
111 FAST SPI
```



PAGE TITLE SYSTEM:N61 SPECIFIC		
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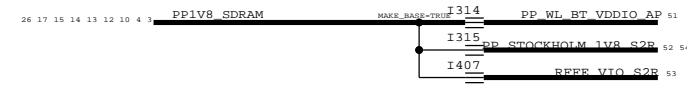
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RADIO_MLB HIERARCHICAL SYMBOL

POWER

VCC_MAIN, VBAT GOES TO RADIO_MLB DIRECTLY
CHECK ALL PAGES IN RF SIDE!

POWER



CELLULAR HOUSE KEEPING

AP_TO_RADIO_ON_L	I325	RADIO_ON_L	30 32
BB_TO_AP_RESET_DET_L	I324	BB_RESET_DET_L	30 32
PMU_TO_BB_RST_L	I323	RF_PMIC_RESET_L	30 32
AP_TO_BB_RST_L	I322	BB_RST_L	30 32
AP_TO_BB_WAKE_MODEM	I329	AP_WAKE_MODEM	35
BB_TO_PMU_HOST_WAKE_L	I328	BB_WAKE_HOST_L	30 35
BB_TO_AP_IPC_GPIO	I327	BB_IPC_GPIO	35
BB_TO_LEDDRVM_GSM_BLANK	I326	GSM_TXBURST_IND	35
BB_TO_AP_GPS_SYNC	I325	BB_GPS_SYNC	30 35

WLAN/BT HOUSE KEEPING

45_PMU_TO_WLAN_CLK32K	I316	CLK32K_AP	30 51
PMU_TO_WLAN_REG_ON	I315	WLAN_REG_ON	30 51
WLAN_TO_PMU_HOST_WAKE	I314	HOST_WAKE_WLAN	30 51
PMU_TO_BT_REG_ON	I313	BT_REG_ON	30 51
AP_TO_BT_WAKE	I312	WAKE_BT	30 51
BT_TO_PMU_HOST_WAKE	I311	HOST_WAKE_BT	51

HSIC IPC

50_AP_BI_BB_HSIC1_DATA	I368	50_BB_HSIC_DATA	30 34
50_AP_BI_BB_HSIC1_STB	I367	50_BB_HSIC_STROBE	30 34
AP_TO_BB_HOST_RDY	I371	BB_HOST_RDY	30 35
BB_TO_AP_DEVICE_RDY	I370	BB_DEVICE_RDY	30 35
BB_TO_AP_IPC_GPIO1	I372	BB_IPC_GPIO1	35

AP_TO_WLAN_JTAG_SWCLK	I333	WLAN_JTAG_SWCLK	30 51
AP_TO_WLAN_JTAG_SWDIO	I334	WLAN_JTAG_SWDIO	30 51
WLAN_TO_PMU_PCIE_WAKE_L	I335	WLAN_PCIE_WAKE_L	30 51
AP_TO_WLAN_DEVICE_WAKE	I336	PCIE_DEV_WAKE	30 51
90_WLAN_TO_AP_PCIE1_RXDP_P	I337	90_WLAN_PCIE_TDP	30 51
90_WLAN_TO_AP_PCIE1_RXDP_N	I338	90_WLAN_PCIE_TDN	30 51
90_AP_TO_WLAN_PCIE1_TXDP_P	I339	90_WLAN_PCIE_RDP	30 51
90_AP_TO_WLAN_PCIE1_TXDP_N	I340	90_WLAN_PCIE_RDN	30 51
90_AP_TO_WLAN_PCIE1_REFCLK1_P	I341	90_WLAN_PCIE_REFCLK_P	51
90_AP_TO_WLAN_PCIE1_REFCLK1_N	I342	90_WLAN_PCIE_REFCLK_N	51
WLAN_TO_AP_PCIE1_CLKREQ_L	I343	WLAN_PCIE_CLKREQ_L	30 51
AP_TO_WLAN_PCIE1_RST_L	I344	WLAN_PCIE_PERST_L	30 51

UART IPC

AP_TO_BB_UART2_RTS_L	I373	BB_UART_CTS_L	30 35
BB_TO_AP_UART2_CTS_L	I374	BB_UART_RTS_L	30 35
AP_TO_BB_UART2_TXD	I375	BB_UART_RXD	30 35
BB_TO_AP_UART2_RXD	I376	BB_UART_TXD	30 35

WLAN HSIC IPC

WLAN_TO_AP_UART4_RXD	I345	WLAN_UART_TXD	30 51
AP_TO_WLAN_UART4_TXD	I346	WLAN_UART_RXD	30 51
WLAN_TO_AP_UART4_CTS_L	I347	WLAN_UART_RTS_L	30 51
AP_TO_WLAN_UART4_RTS_L	I348	WLAN_UART_CTS_L	30 51

AUDIO I2S

45_AP_TO_BB_I2S3_BCLK	I377	BB_I2S_CLK	35
AP_TO_BB_I2S3_DOUT	I378	BB_I2S_RXD	30 35
BB_TO_AP_I2S3_DIN	I379	BB_I2S_TXD	30 35
AP_TO_BB_I2S3_LRCLK	I380	BB_I2S_WS	30 35

OSCAR UART

OSCAR_TO_BB_UART_TXD	I382	BB_OTHER_RXD	30 35
BB_TO_OSCAR_UART_RXD	I381	BB_OTHER_TXD	30 35

BT UART IPC

AP_TO_BT_UART1_RTS_L	I349	BT_UART_CTS_L	51
BT_TO_AP_UART1_CTS_L	I350	BT_UART_RTS_L	51
AP_TO_BT_UART1_TXD	I351	BT_UART_RXD	30 51
BT_TO_AP_UART1_RXD	I352	BT_UART_TXD	30 51

BB DEBUG INTERFACES

AP_TO_BB_COREDUMP	I384	BB_CORE_DUMP	30 35
PMU_TO_BB_VBUS_DET	I387	BB_USB_VBUS	30 34
90_TRISTAR_BI_BB_USB_N	I386	90_BB_USB_N	30 34
90_TRISTAR_BI_BB_USB_P	I385	90_BB_USB_P	30 34

BT AUDIO PCM

45_AP_TO_BT_I2S1_BCLK	I354	BT_PCM_CLK	51
AP_TO_BT_I2S1_DOUT	I355	BT_PCM_IN	51
BT_TO_AP_I2S1_DIN	I356	BT_PCM_OUT	51
AP_TO_BT_I2S1_LRCLK	I357	BT_PCM_SYNC	51

RADIO ANTENNA CONTROL

PP_BB_VDD_2V7	I389	PP_LDO14_RFSW	31 41 42
BB_GPIO0	I390	BB_LAT_GPIO0	35
BB_GPIO2	I391	BB_LAT_GPIO2	35
BB_GPIO3	I392	BB_LAT_GPIO3	35
BB_GPIO4	I393	BB_LAT_GPIO4	35

OSCAR STATES

OSCAR_TO_RADIO_CONTEXT_A	I358	OSCAR_CONTEXT_A	51
OSCAR_TO_RADIO_CONTEXT_B	I359	OSCAR_CONTEXT_B	51

FCT TESTING

RADIO_TO_PMU_ADC_SMPS1	I395	ADC_SMPS1	30
RADIO_TO_PMU_ADC_PP_LDO11_VDDIO	I396	ADC_PP_LDO11	30
RADIO_TO_PMU_ADC_PP_LDO5_SIM	I397	ADC_PP_LDO5	30
RADIO_TO_PMU_ADC_SMPS4	I398	ADC_SMPS4	30

STOCKHOLM

STOCKHOLM_TO_AP_UART3_CTS_L	I359	STOCKHOLM_RTS_L	30 52
AP_TO_STOCKHOLM_UART3_RTS_L	I360	STOCKHOLM_CTS_L	30 52
STOCKHOLM_TO_AP_UART3_RXD	I361	STOCKHOLM_UART_TXD	30 52
AP_TO_STOCKHOLM_UART3_TXD	I362	STOCKHOLM_UART_RXD	30 52
AP_TO_STOCKHOLM_DWLD_REQ	I363	STOCKHOLM_FW_DWLD_REQ	52
STOCKHOLM_TO_PMU_HOST_WAKE	I364	STOCKHOLM_HOST_WAKE	30 52
AP_TO_STOCKHOLM_EN	I365	STOCKHOLM_ENABLE	52
PP3V0_TRISTAR	I366	STOCKHOLM_VDD_MUX_3V0	54
AP_TO_STOCKHOLM_SIM_SEL	I367	STOCKHOLM_SIM_SEL	54
AP_TO_STOCKHOLM_ANT	I406	STOCKHOLM_ANT	52

UPPER RADIO ANTENNA CONTROL

50_AP_WIFI_5G_CONN_ANT	I410	50_WIFI_5G_CONN_ANT	50
50_AP_UAT_FEED	I409	50_UPPER_ANT_FEED	50
UAT_ANT_GND	I411	ANT_GND	50
PP3V0_TRISTAR	I404	PAC_VDD_3V0	53
NORTH_AC_GND_SCREW	I412	NORTH_ANT_GND	50

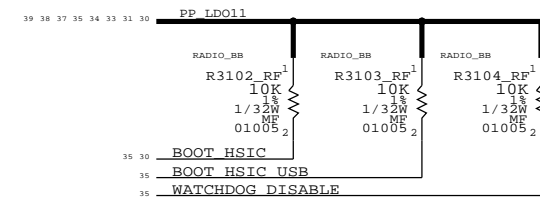
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	PAGE 30 OF 55	SHEET 29 OF 54

AP INTERFACE & DEBUG CONNECTORS

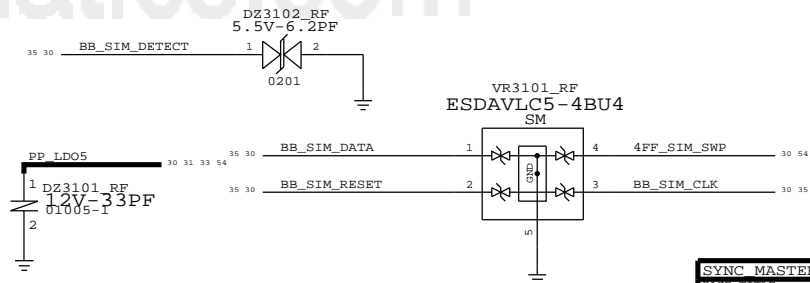
PROBE POINTS

PP3105_RF P2MM-NSM SM 1 CLK32K_AP 29 51	PP3121_RF P2MM-NSM SM 1 STOCKHOLM_HOST_WAKE 29 52	PP3115_FF P4MM-NSM SM 1 50_BB_HSIC_STROBE 29 34	PP3130_RF P4MM-NSM SM 1 BB_JTAG_RST_L 34	PP3141_RF P4MM-NSM SM 1 BB_UART_TXD 29 35	PP3170_RF P4MM-NSM SM 1 RFFE1_CLK 35 39 40 41 42 43 44
PP3113_RF P4MM-NSM SM 1 BB_COEX_UART_RXD 35 51	PP3122_RF P4MM-NSM SM 1 BB_REQUEST_XO_CLK 32 52	PP3116_RF P4MM-NSM SM 1 50_BB_HSIC_DATA 29 34	PP3131_RF P4MM-NSM SM 1 BB_JTAG_TCK 34	PP3142_RF P4MM-NSM SM 1 BB_UART_RXD 29 35	PP3171_RF P4MM-NSM SM 1 RFFE1_DATA 35 39 40 41 42 43 44
PP3114_RF P4MM-NSM SM 1 BB_COEX_UART_TXD 35 51	PP3123_RF P2MM-NSM SM 1 STOCKHOLM_UART_RXD 29 52	PP3101_RF P4MM-NSM SM 1 BB_DEBUG_ERROR 35	PP3132_RF P4MM-NSM SM 1 BB_JTAG_TMS 34	PP3143_RF P4MM-NSM SM 1 BB_UART_RTS_L 29 35	PP3172_RF P4MM-NSM SM 1 RFFE2_CLK 35 45 46 48
PP3119_RF P2MM-NSM SM 1 BT_UART_TXD 29 51	PP3124_RF P2MM-NSM SM 1 STOCKHOLM_UART_TXD 29 52	PP3102_RF P4MM-NSM SM 1 RF_PMIC_RESET_L 29 32	PP3133_RF P4MM-NSM SM 1 BB_JTAG_TDO 34	PP3144_RF P4MM-NSM SM 1 BB_UART_CTS_L 29 35	PP3173_RF P4MM-NSM SM 1 RFFE2_DATA 35 45 46 48
PP3120_RF P2MM-NSM SM 1 BT_UART_RXD 29 51	PP3125_RF P2MM-NSM SM 1 STOCKHOLM_CTS_L 29 52	PP3103_RF P4MM-NSM SM 1 PS_HOLD_PMIC 32	PP3134_RF P4MM-NSM SM 1 BB_JTAG_TDI 34	PP3145_RF P4MM-NSM SM 1 BB_HOST_RDY 29 35	PP3175_RF P4MM-NSM SM 1 BB_I2S_WS 29 35
PP3152_RF P2MM-NSM SM 1 WAKE_BT 29 51	PP3126_RF P2MM-NSM SM 1 STOCKHOLM_RTS_L 29 52	PP3127_RF P4MM-NSM SM 1 PMIC_RESOUT_L 32 34	PP3135_RF P4MM-NSM SM 1 BB_JTAG_TRST_L 34	PP3146_RF P4MM-NSM SM 1 BB_DEVICE_RDY 29 35	PP3176_RF P4MM-NSM SM 1 BB_I2S_RXD 29 35
PP3153_RF P4MM-NSM SM 1 WLAN_REG_ON 29 51	PP3128_RF P4MM-NSM SM 1 PP_PN65_VCC_SIM 52	PP3104_RF P4MM-NSM SM 1 MDM_CLK 32 34	PP3136_RF P4MM-NSM SM 1 BB_DEBUG_STATUS 35	PP3147_RF P4MM-NSM SM 1 BB_GPS_SYNC 29 35	PP3177_RF P4MM-NSM SM 1 BB_I2S_TXD 29 35
PP3154_RF P4MM-NSM SM 1 BT_REG_ON 29 51	PP3174_RF P4MM-NSM SM 1 STOCKHOLM_SIM_SWP 52 54	PP3109_RF P4MM-NSM SM 1 PP_LD011 30 31 33 34 35 37 38	PP3137_RF P4MM-NSM SM 1 BB_CORE_DUMP 29 35	PP3148_RF P4MM-NSM SM 1 BB_WAKE_HOST_L 29 35	PP3178_RF P4MM-NSM SM 1 BB_OTHER_TXD 29 35
PP3155_RF P2MM-NSM SM 1 HOST_WAKE_WLAN 29 51	PP3129_RF P4MM-NSM SM 1 REF_CLK_FROM_BB 32 52	PP3110_RF P4MM-NSM SM 1 RADIO_ON_L 29 32	PP3138_RF P4MM-NSM SM 1 BB_USB_VBUS 29 34	PP3149_RF P4MM-NSM SM 1 BB_RESET_DET_L 29 35	PP3179_RF P4MM-NSM SM 1 BB_OTHER_RXD 29 35
PP3156_RF P2MM-NSM SM 1 WLAN_PCIE_WAKE_L 29 51	PP3165_RF P4MM-NSM SM 1 DSDS_SIM_CLK 34 54	PP3111_RF P4MM-NSM SM 1 SPMI_DATA 32 34	PP3139_RF P4MM-NSM SM 1 90_BB_USB_N 29 34	PP3150_RF P4MM-NSM SM 1 BB_RST_L 29 32	
PP3157_RF P2MM-NSM SM 1 WLAN_PCIE_PERST_L 29 51	PP3183_RF P4MM-NSM SM 1 DSDS_SIM_RESET 34 54	PP3112_RF P4MM-NSM SM 1 SPMI_CLK 32 34	PP3140_RF P4MM-NSM SM 1 90_BB_USB_P 29 34	PP3151_RF P4MM-NSM SM 1 BOOT_HSIC 30 35	
PP3158_RF P4MM-NSM SM 1 WLAN_PCIE_CLKREQ_L 29 51	PP3184_RF P4MM-NSM SM 1 DSDS_SIM_DATA 34 54				
PP3159_RF P4MM-NSM SM 1 PCIE_DEV_WAKE 29 51	PP3187_RF P4MM-NSM SM 1 PP_LD06 31 33 54				
PP3160_RF P2MM-NSM SM 1 WLAN_UART_RTS_L 29 51	PP3188_RF P4MM-NSM SM 1 DSDS_SIM_SWP 54				
PP3161_RF P2MM-NSM SM 1 WLAN_UART_CTS_L 29 51	PP3189_RF P4MM-NSM SM 1 DSDS_SIM_DATA_R 54				
PP3162_RF P2MM-NSM SM 1 WLAN_UART_RXD 29 51	PP 3178_RF P2MM-NSM SM 1 BB_SIM_RESET 30 35				
PP3163_RF P2MM-NSM SM 1 WLAN_UART_TXD 29 51	PP 3179_RF P2MM-NSM SM 1 BB_SIM_CLK 30 35				
PP3190_RF P2MM-NSM SM 1 WLAN_JTAG_SWDCCLK 29 51	PP 3180_RF P2MM-NSM SM 1 BB_SIM_DATA 30 35				
PP3191_RF P2MM-NSM SM 1 WLAN_JTAG_SWDIO 29 51	PP 3183_RF P2MM-NSM SM 1 BB_SIM_DETECT 30 35				
	PP 3184_RF P2MM-NSM SM 1 PP_LD05 30 31 33 54				

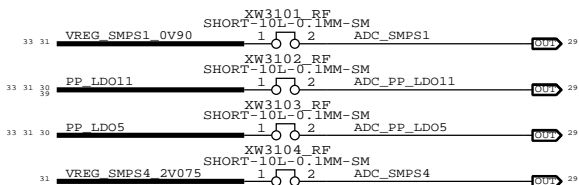
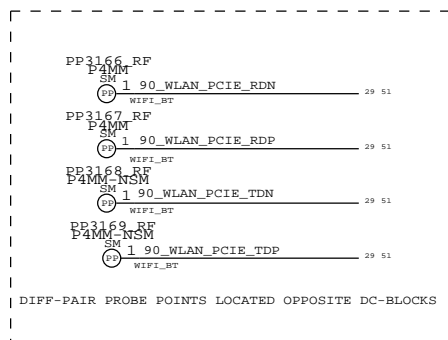
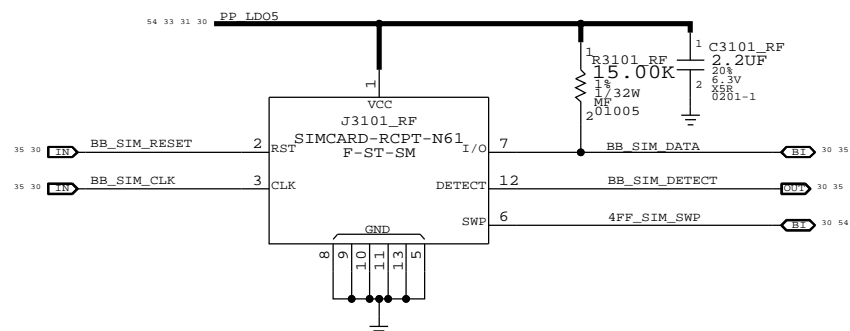
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0565	197S0593	ALTERNATE	Y3301_RF	KDS 19.2MHZ XTAL
197S0598	197S0593	ALTERNATE	Y3301_RF	AVX 19.2MHZ XTAL
138S00005	138S00003	ALTERNATE	C3216_RF	15UF CAPACITOR
138S0739	138S0706	ALTERNATE	C4207_RF	1.0UF CAPACITOR
138S0945	138S0706	ALTERNATE	C4207_RF	1.0UF 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



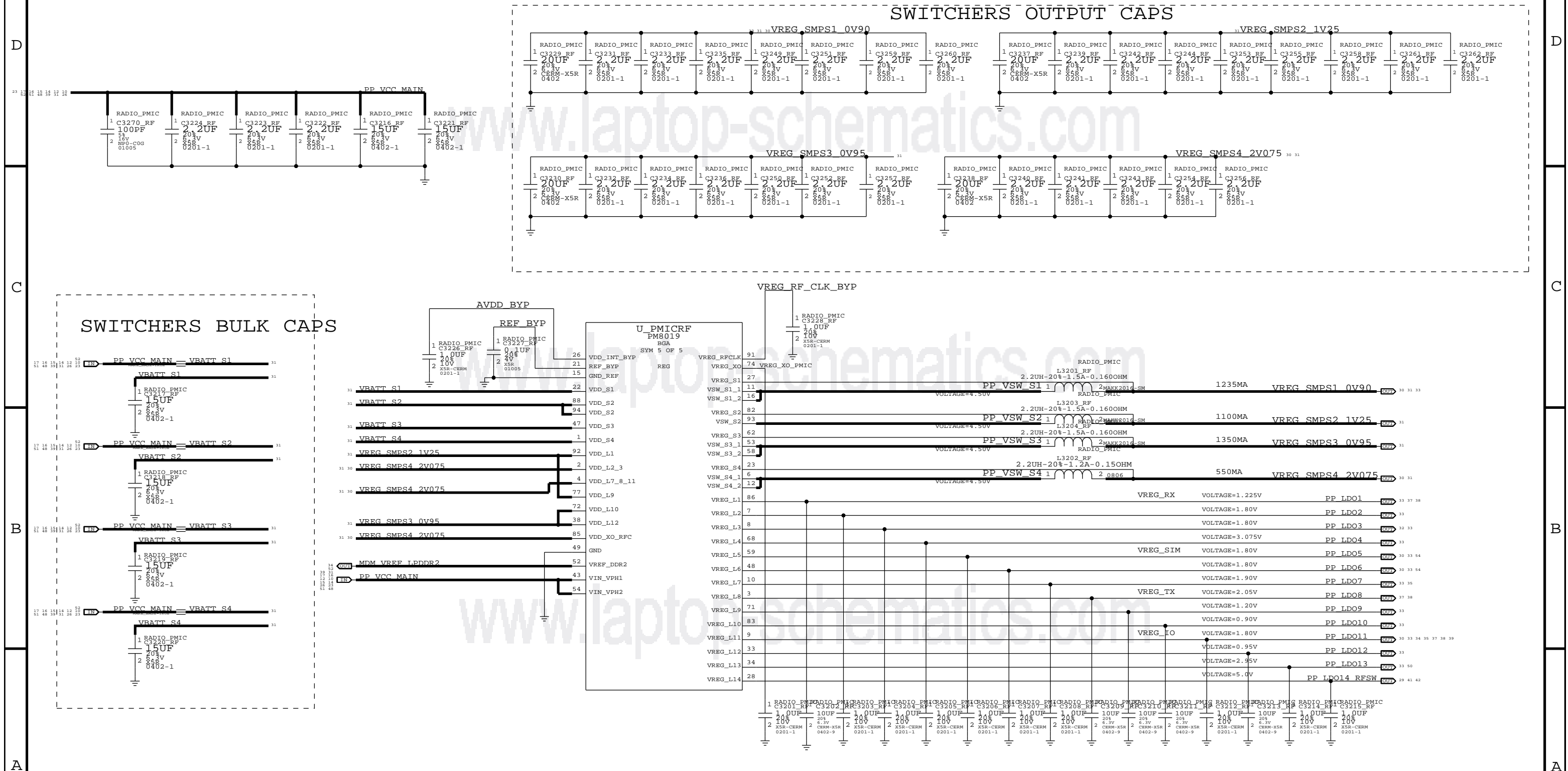
SIM CARD CONNECTOR



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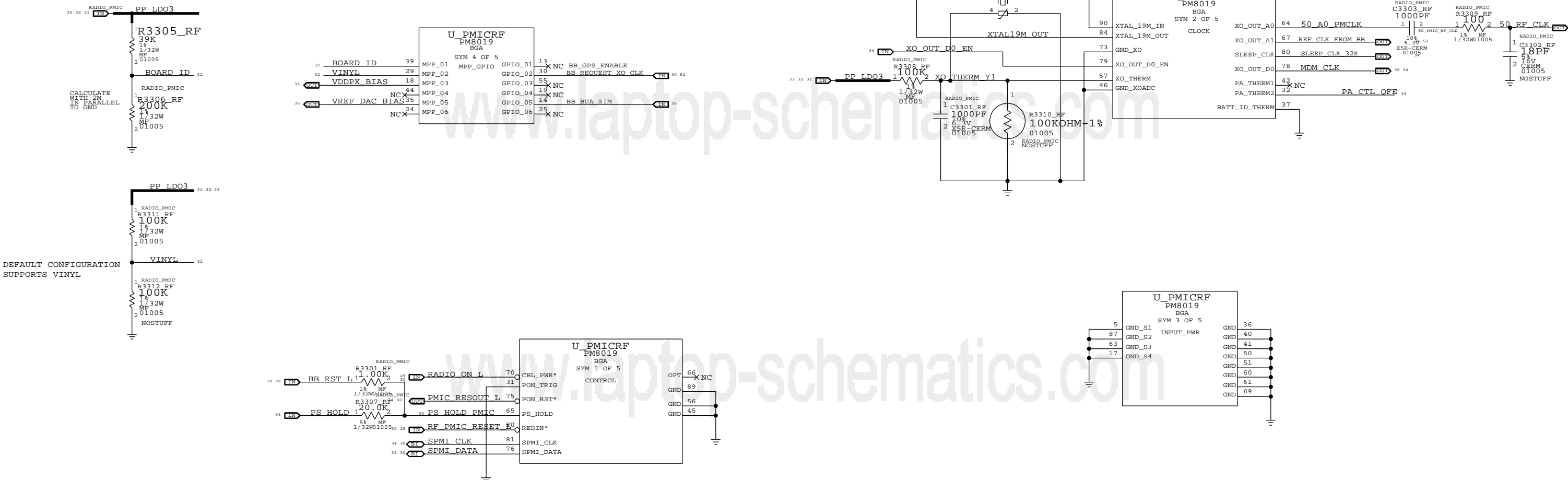
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C401
R411
L400
U404

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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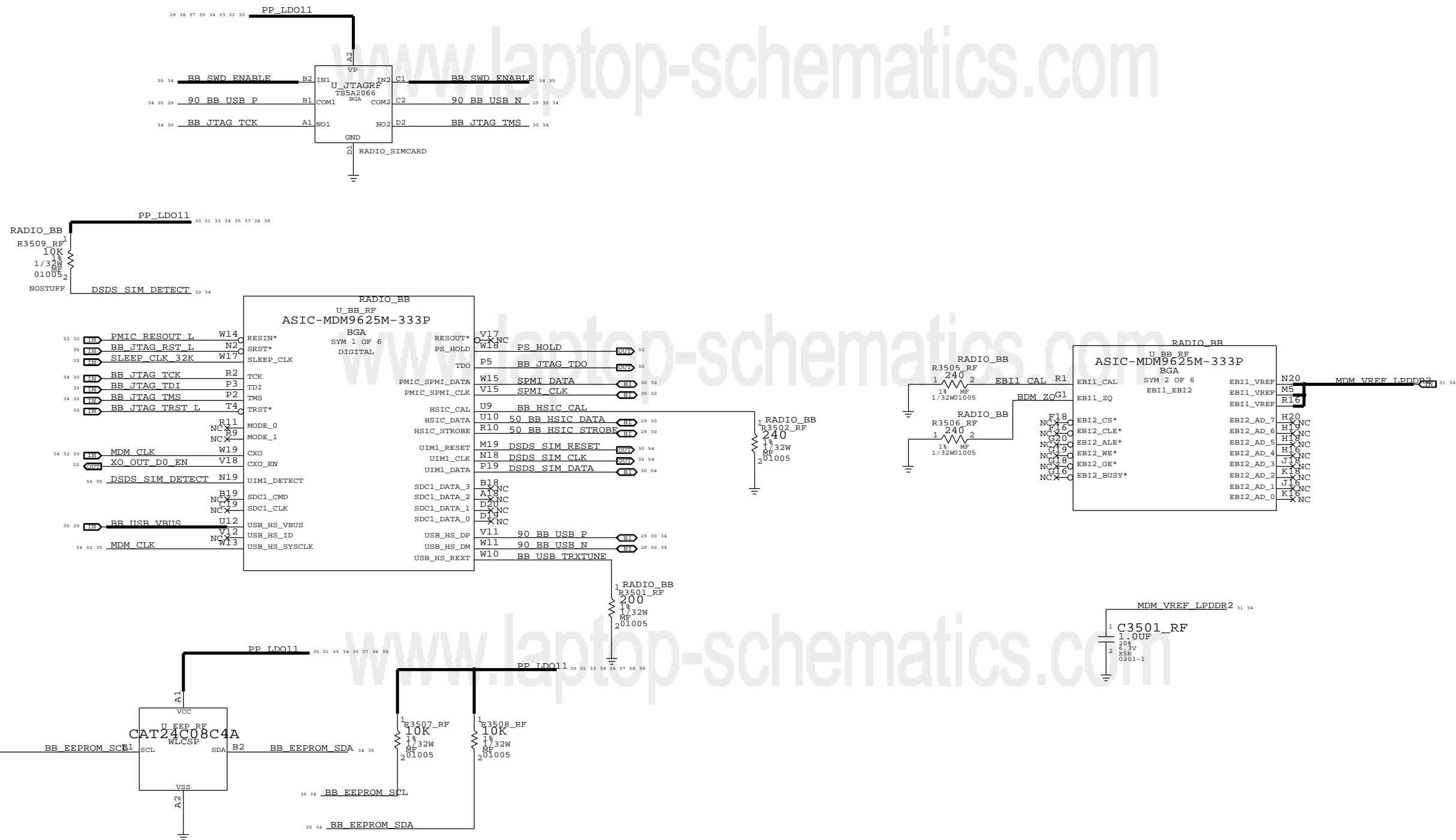


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C600
R606
L600
U602

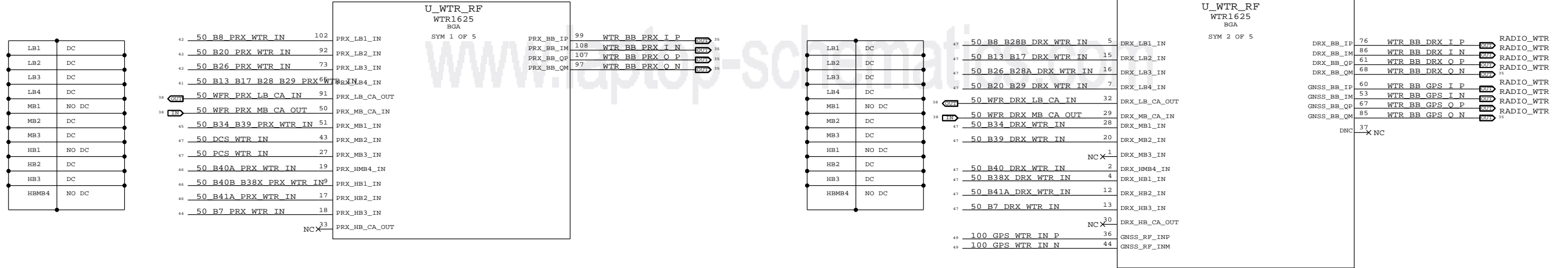


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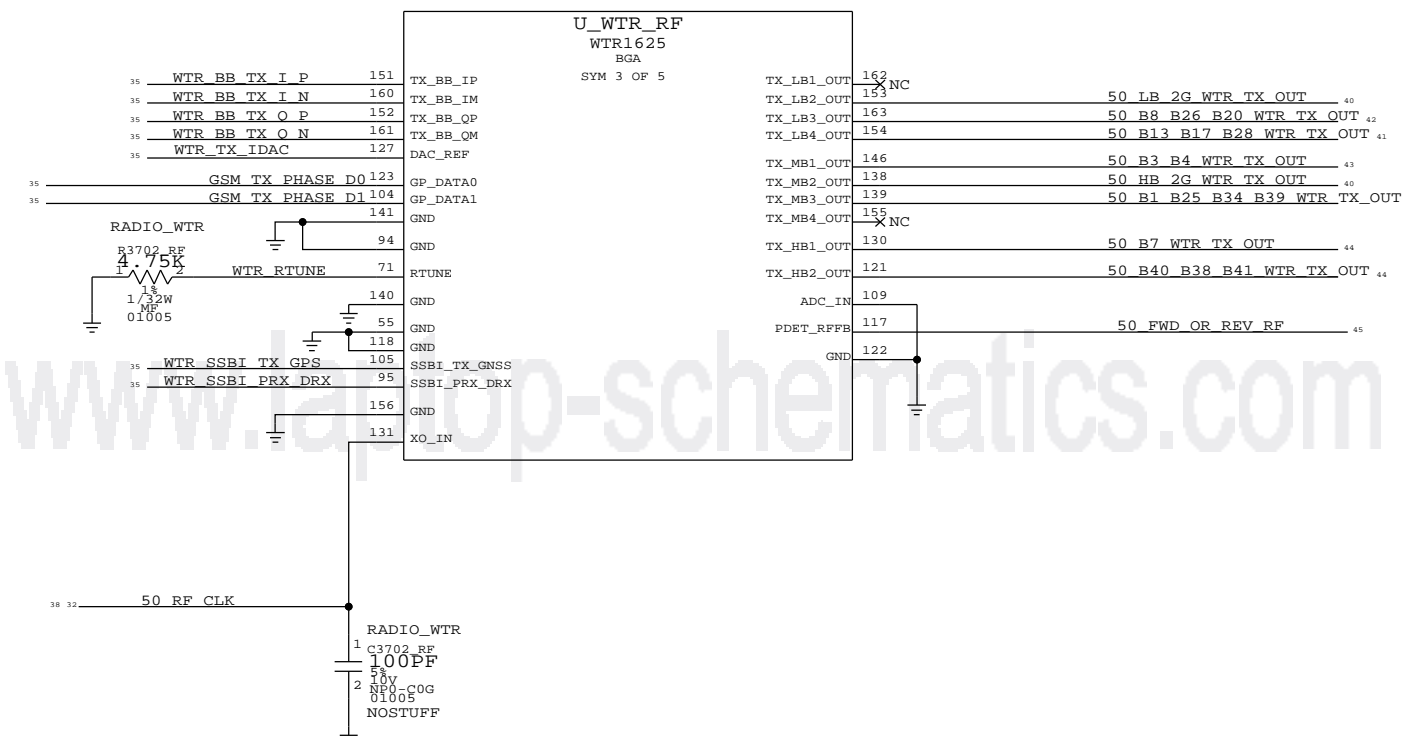
WTR TRANSCEIVER (1 OF 2)

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C802
R802
L800
U803



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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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WTR TRANSCEIVER (2 OF 2)

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C934
R926
L3802_RF
U902

WTR DECOUPLING CAPS

L3801_RF
22NH-3%-0.25A

0201

RADIO_WTR

WTR DECOUPLING SHARED WITH C9308_RF

1 2 VDD_PRX_PLL 1P3V 37

VREG 1P3V

MARK_BASE-TRUE

1 C3820_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3821_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3812_RF

20% 100PF

2 50V

01005

NOSTUFF

RADIO_WTR

1 C3813_RF

20% 100PF

2 50V

01005

NOSTUFF

RADIO_WTR

1 C3814_RF

20% 100PF

2 50V

01005

NOSTUFF

RADIO_WTR

1 C3815_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3816_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3817_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3818_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3819_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3822_RF

20% 100PF

2 50V

01005

NOSTUFF

RADIO_WTR

1 C3823_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3824_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3825_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3826_RF

20% 100PF

2 50V

01005

NOSTUFF

RADIO_WTR

1 C3827_RF

20% 100PF

2 50V

01005

NOSTUFF

RADIO_WTR

1 C3828_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3829_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3830_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3831_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3832_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3833_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3834_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3835_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3836_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3837_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3838_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3839_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3840_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3841_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3842_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3843_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3844_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3845_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3846_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3847_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3848_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3849_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3850_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3851_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3852_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3853_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3854_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3855_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3856_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3857_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3858_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3859_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3860_RF

20% 0.1UF

2 25R

01005

NOSTUFF

RADIO_WTR

1 C3861_RF

20% 0.1UF

2 25R

01005

NOSTUFF

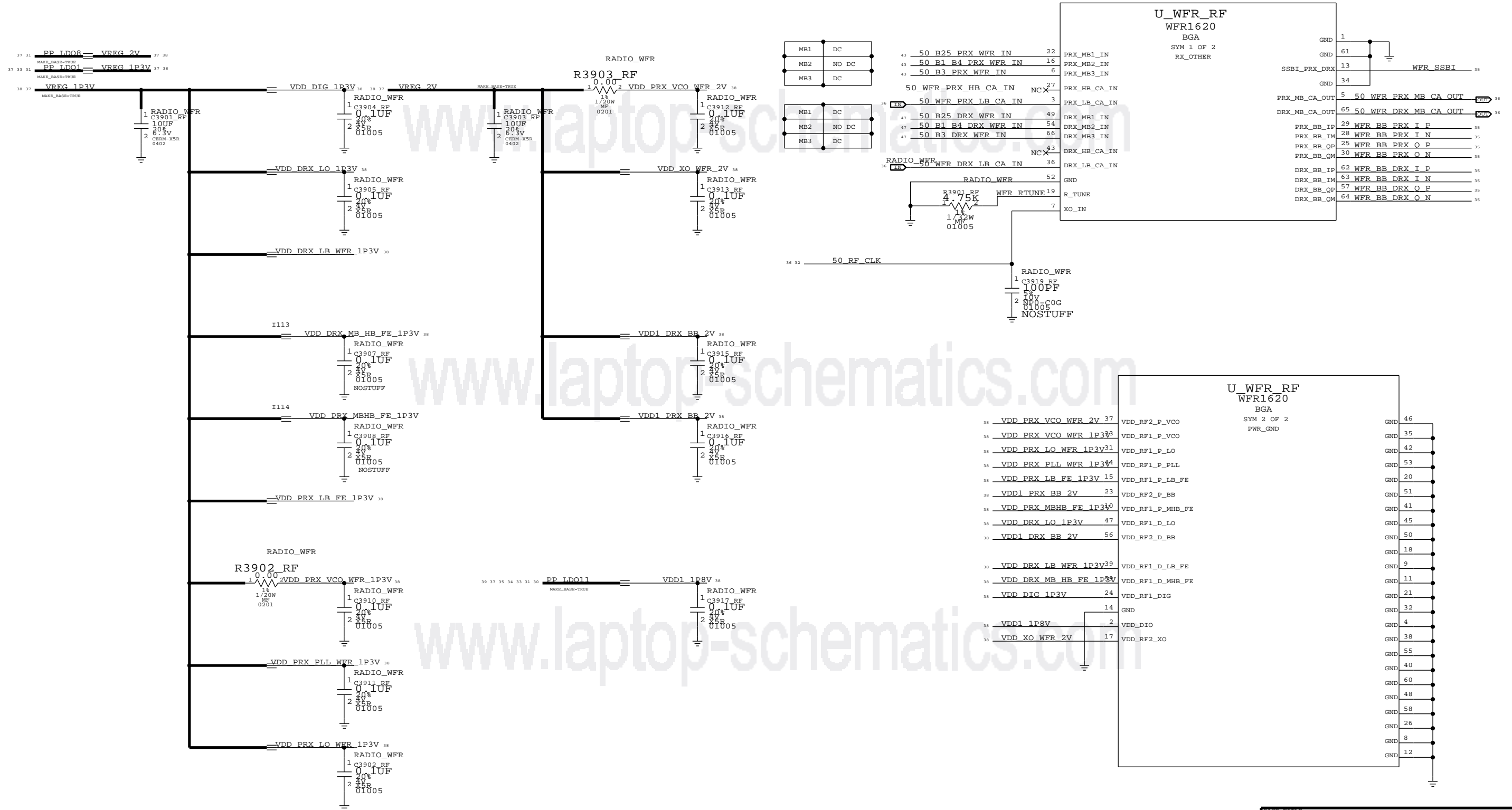
RADIO_WTR

1 C3862_RF

WFR TRANSCEIVER

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C1019
R1016
L1000
U1002



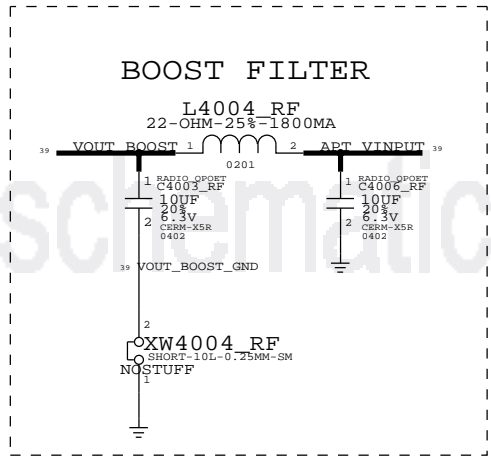
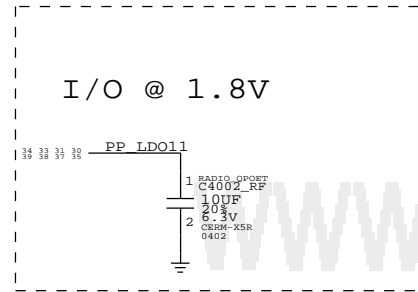
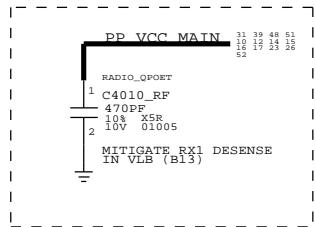
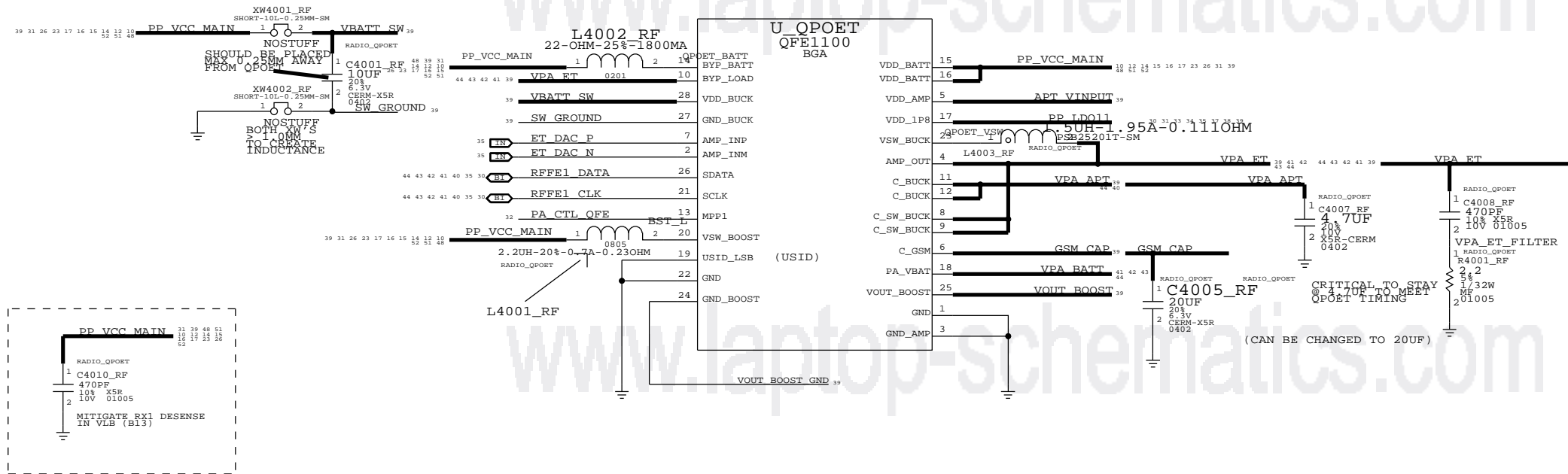
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QFE DCDC

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C1110
R1102
L1104
U1101



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VERY LOW BAND PAD (B13, B17, B28)

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C1332
R1300
L4215_RF
U1304

D

C

B

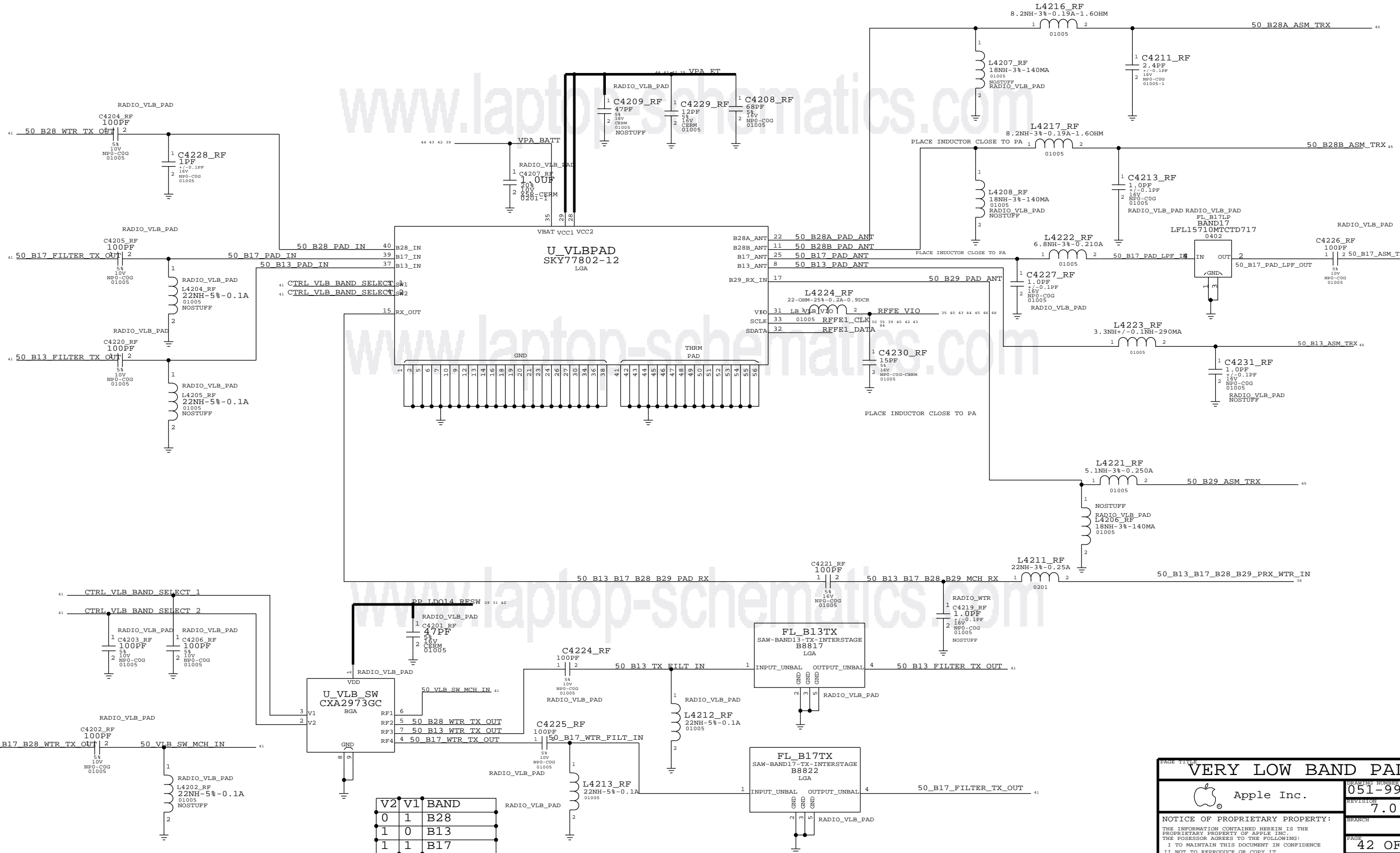
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V2	V1	BAND
0	1	B28
1	0	B13
1	1	B17

LOW BAND PAD (B8, B26, B20)

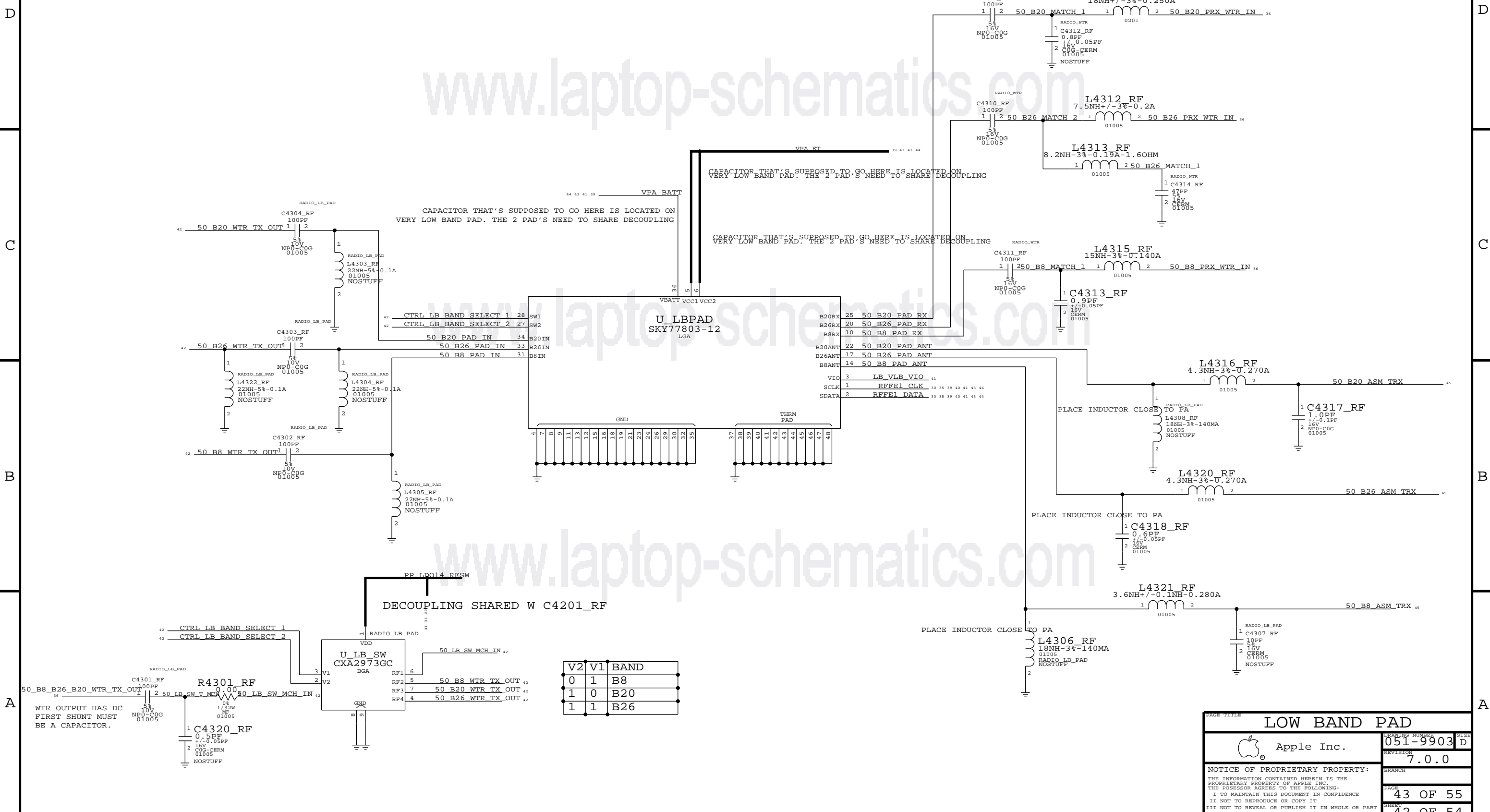
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C4318_RF
R1400
L4322_RF
U1402

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

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C4426_RF
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L4409_RF
U1501

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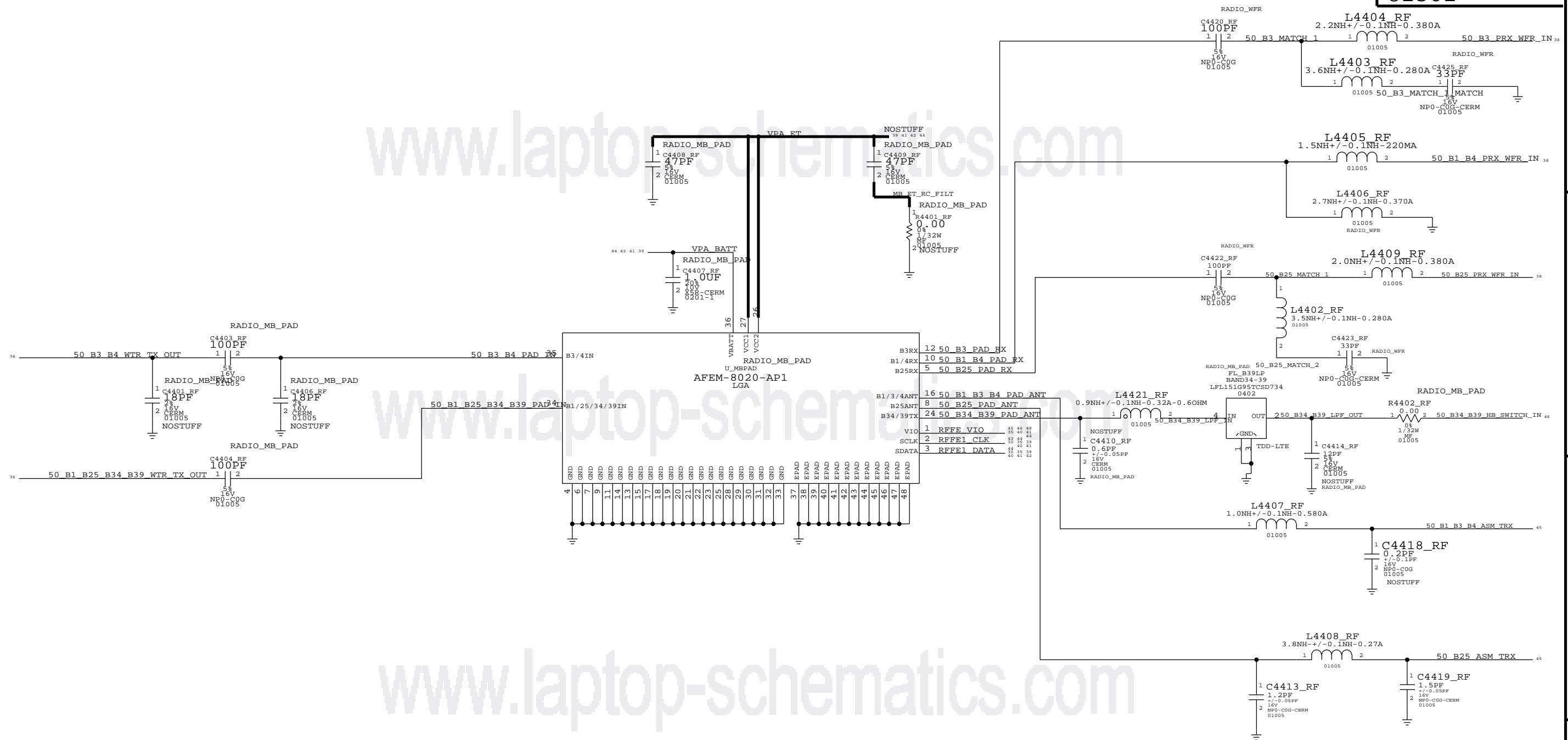
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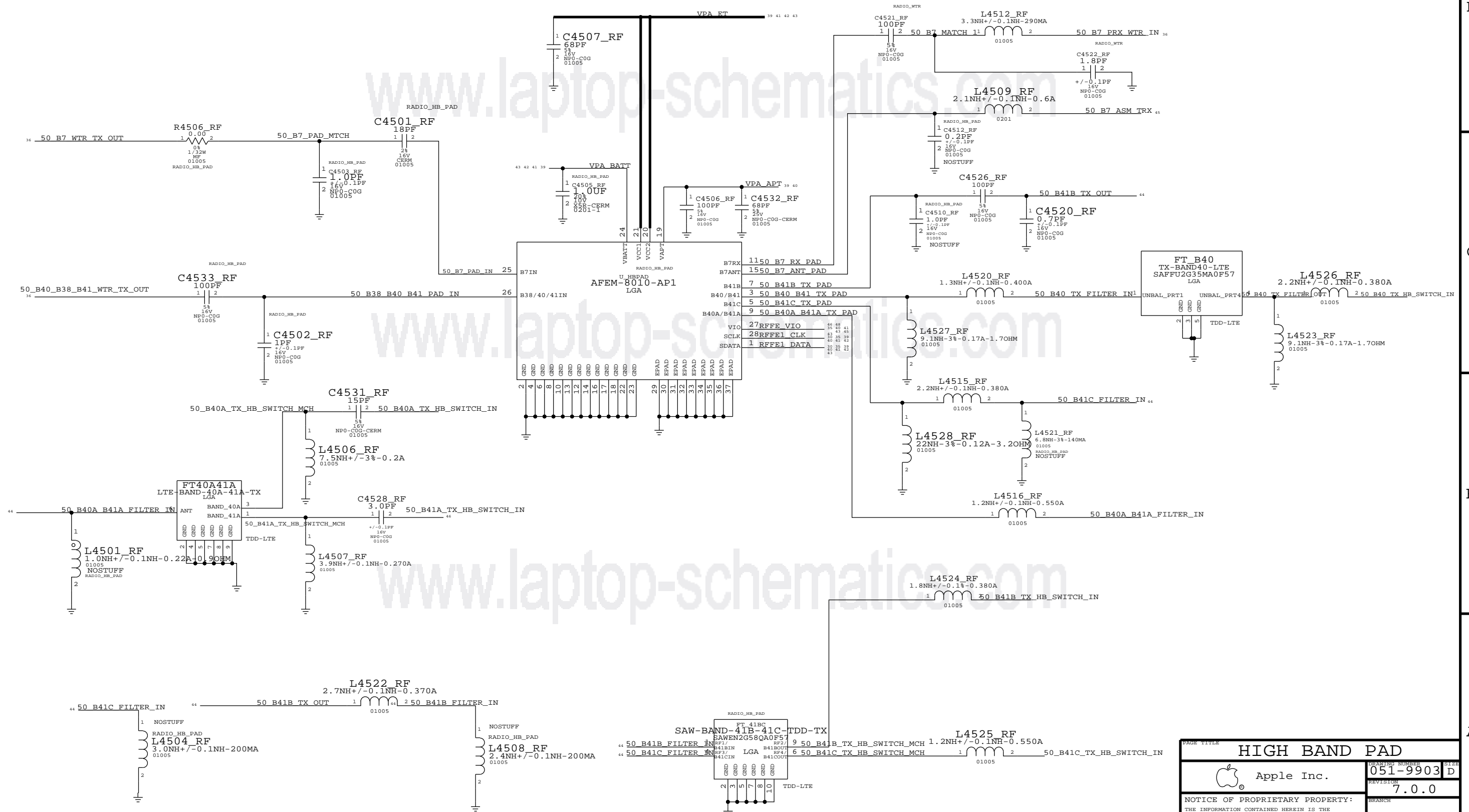


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HIGH BAND PAD (B7, B38, B40, B41, XGP)

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C4533_RF
R1600
L1616
U1601



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ANTENNA SWITCH

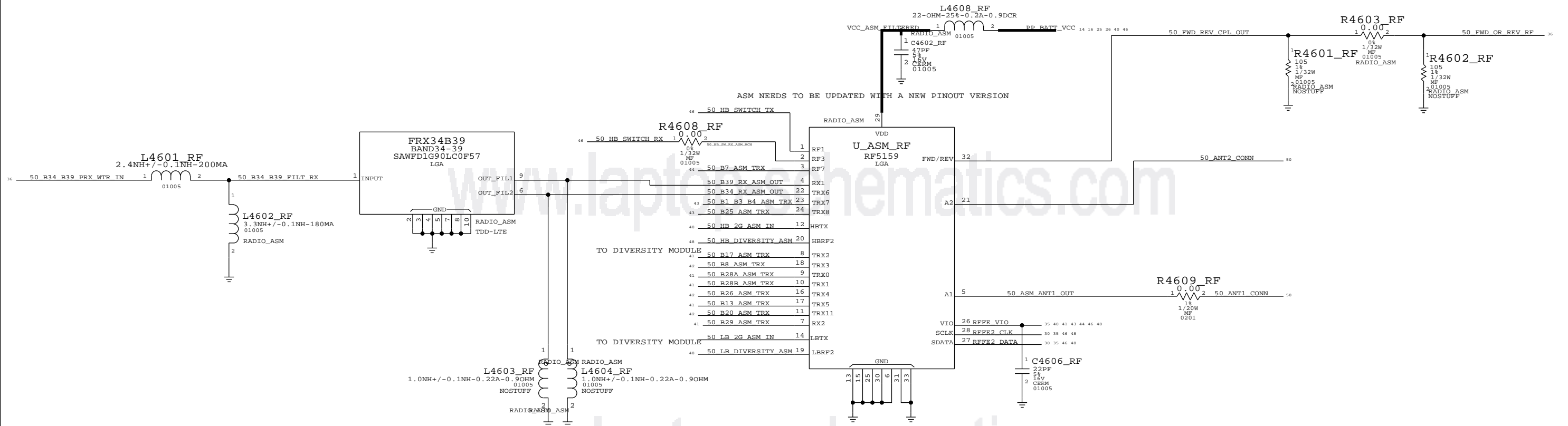
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C1702
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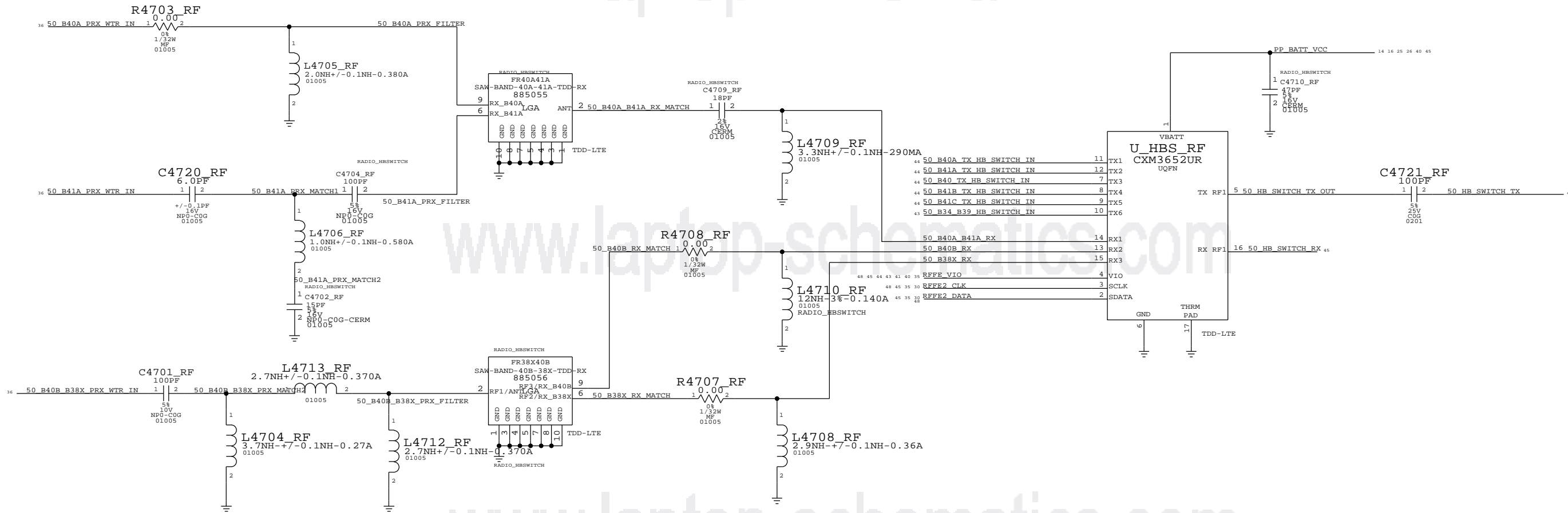
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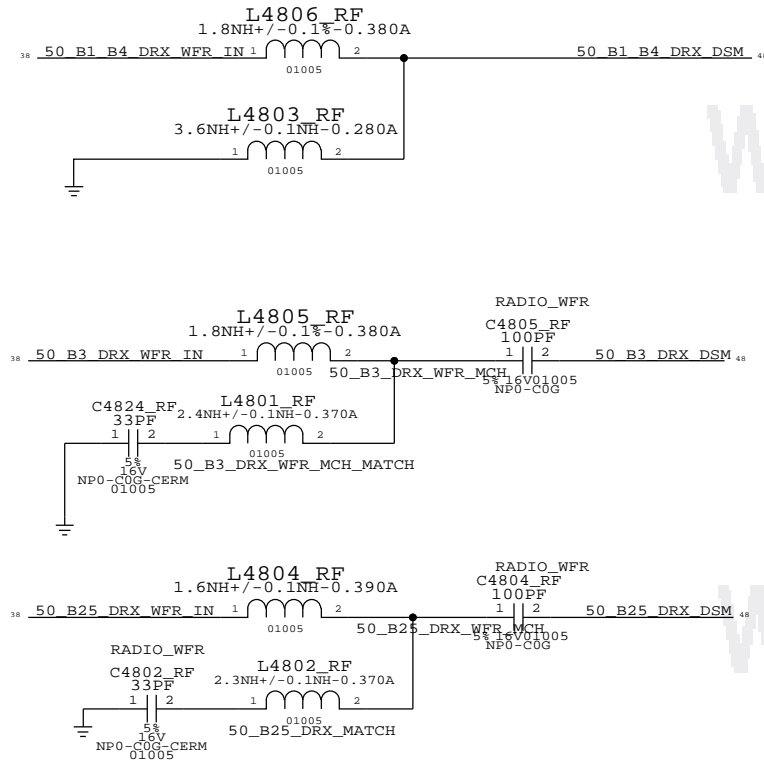
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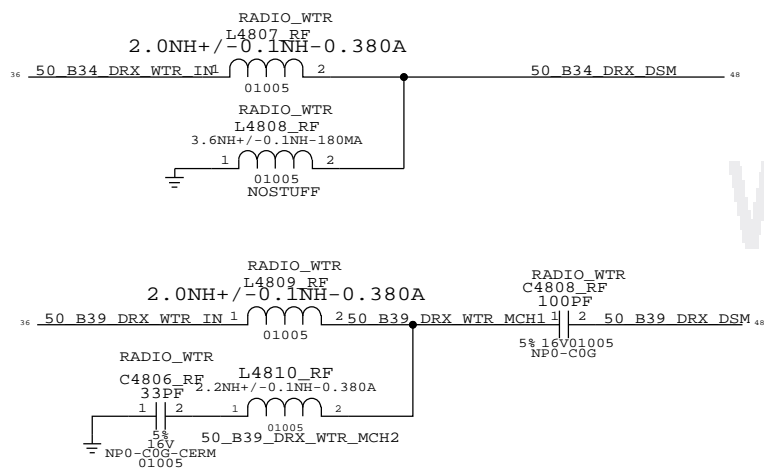
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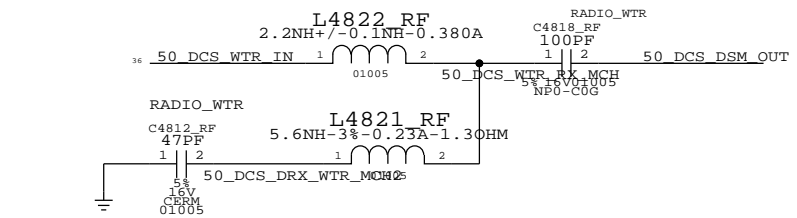
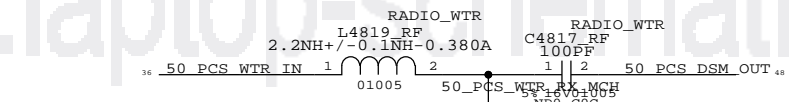
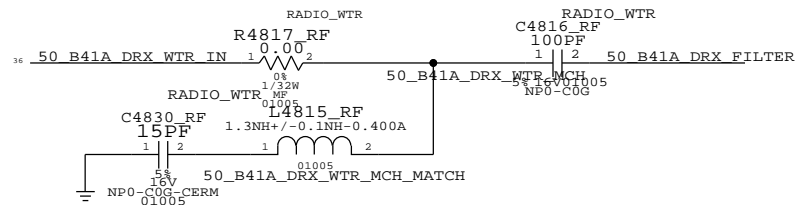
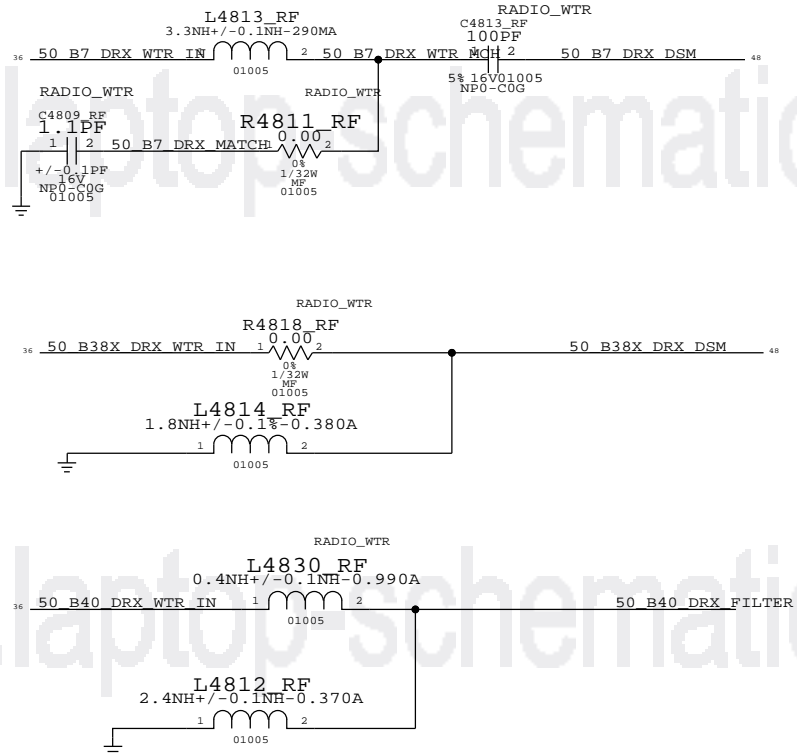
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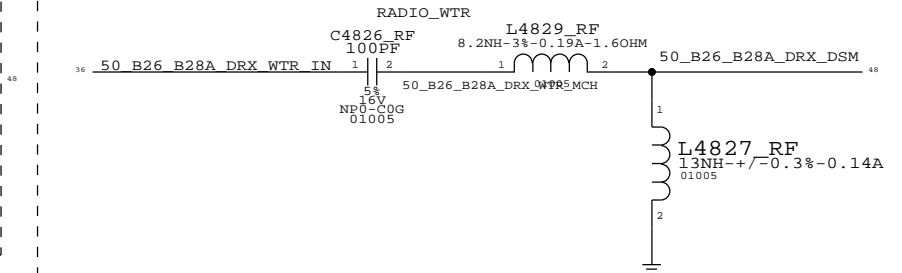
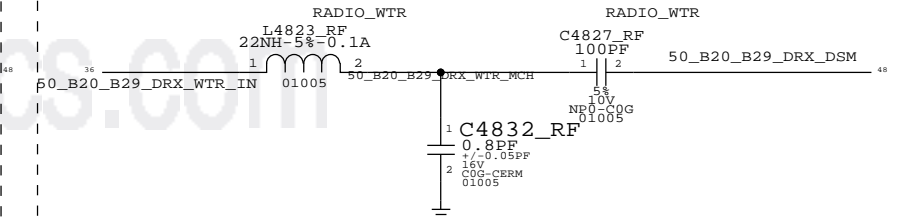
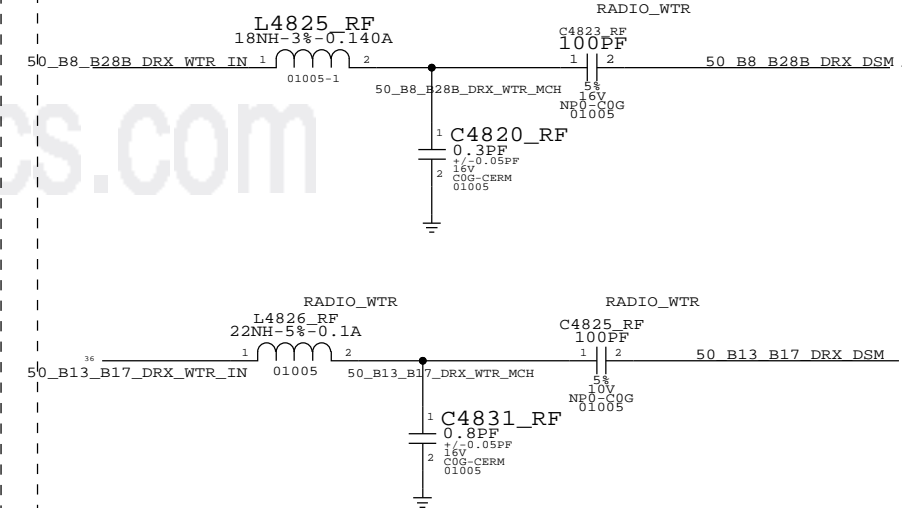
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HIGHBAND DIVERSITY - WTR



LOWBAND DIVERSITY - WTR



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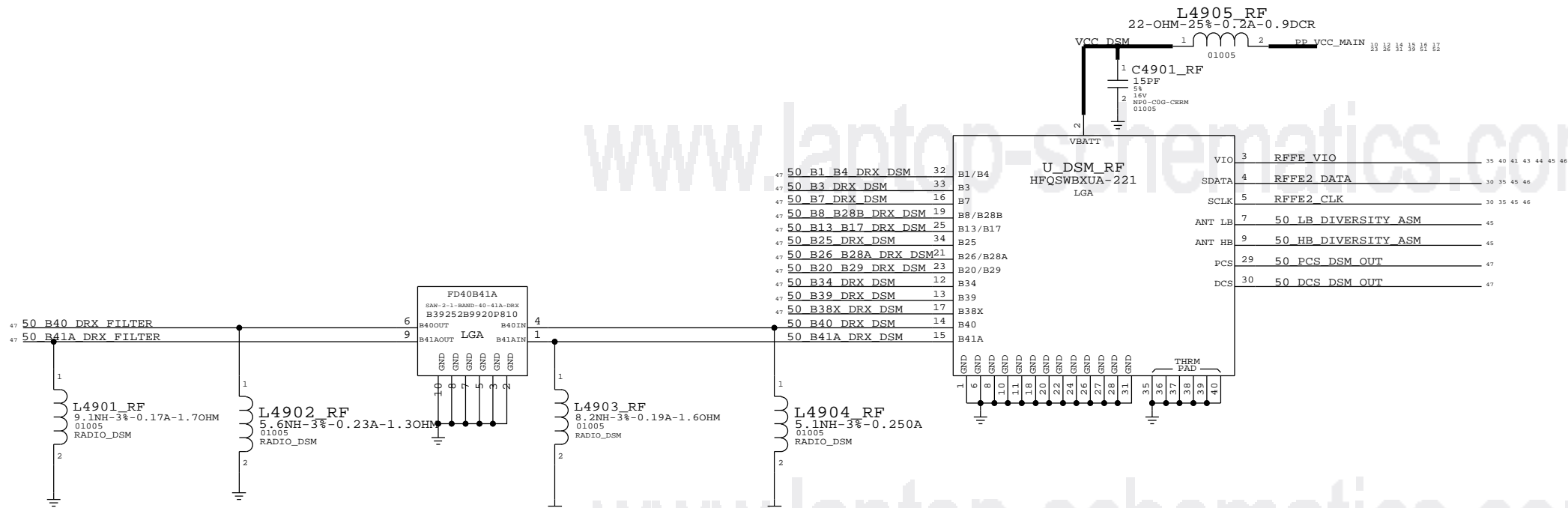
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C1900
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U1901

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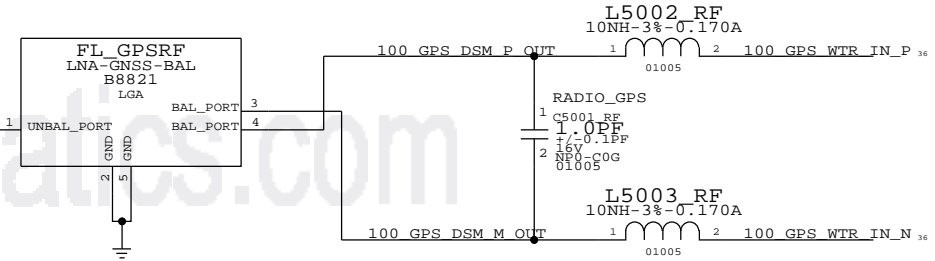
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L1900
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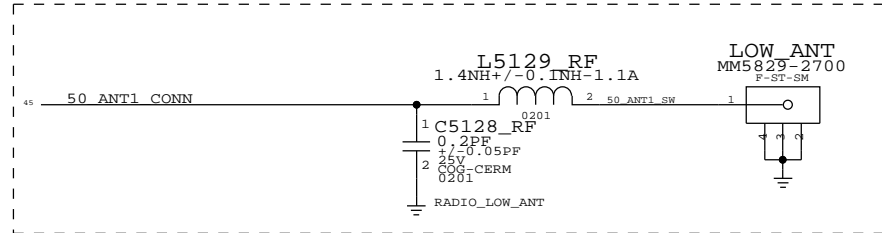
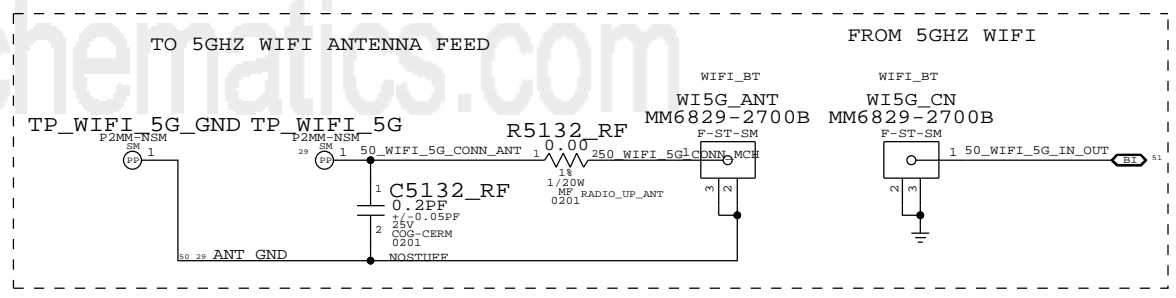
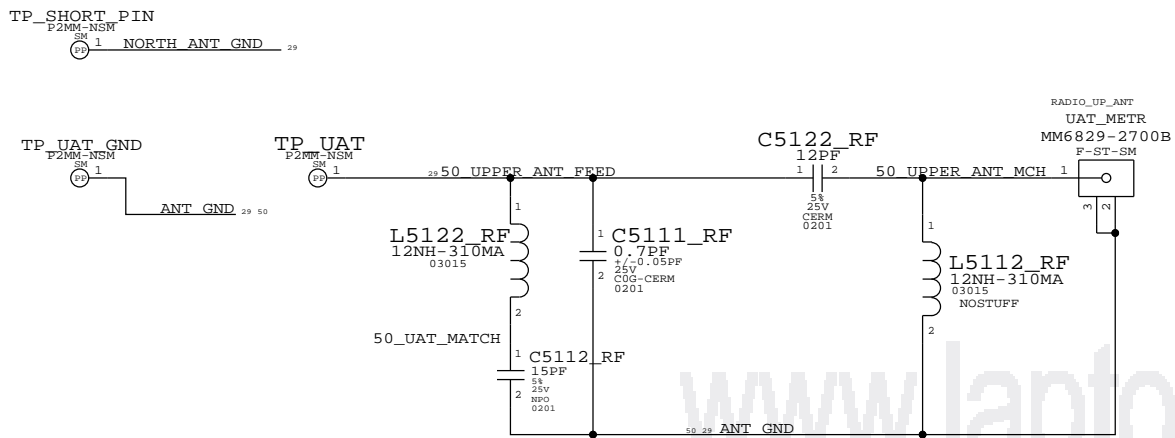
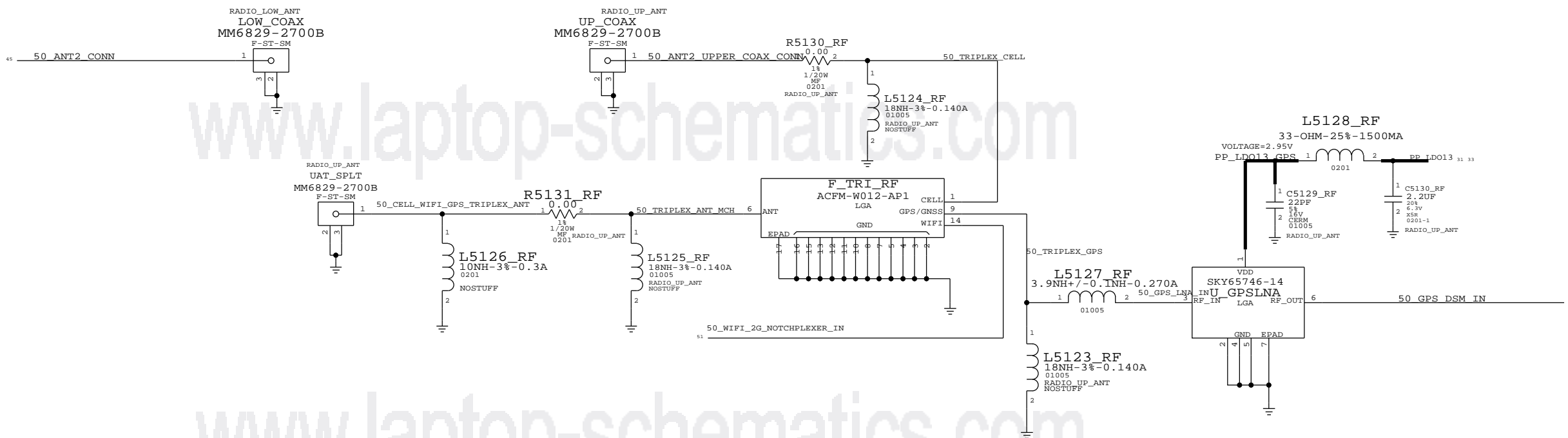


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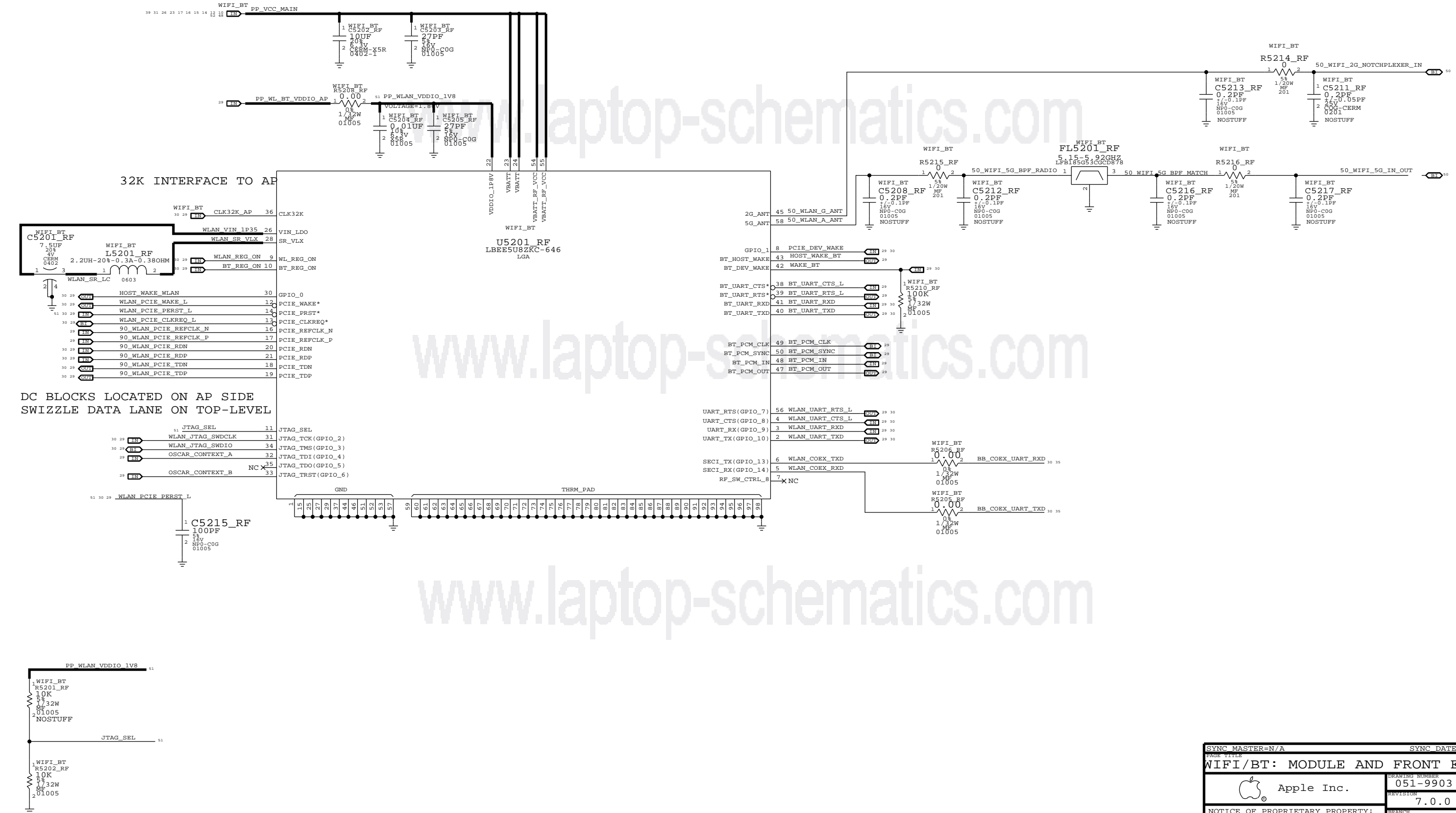
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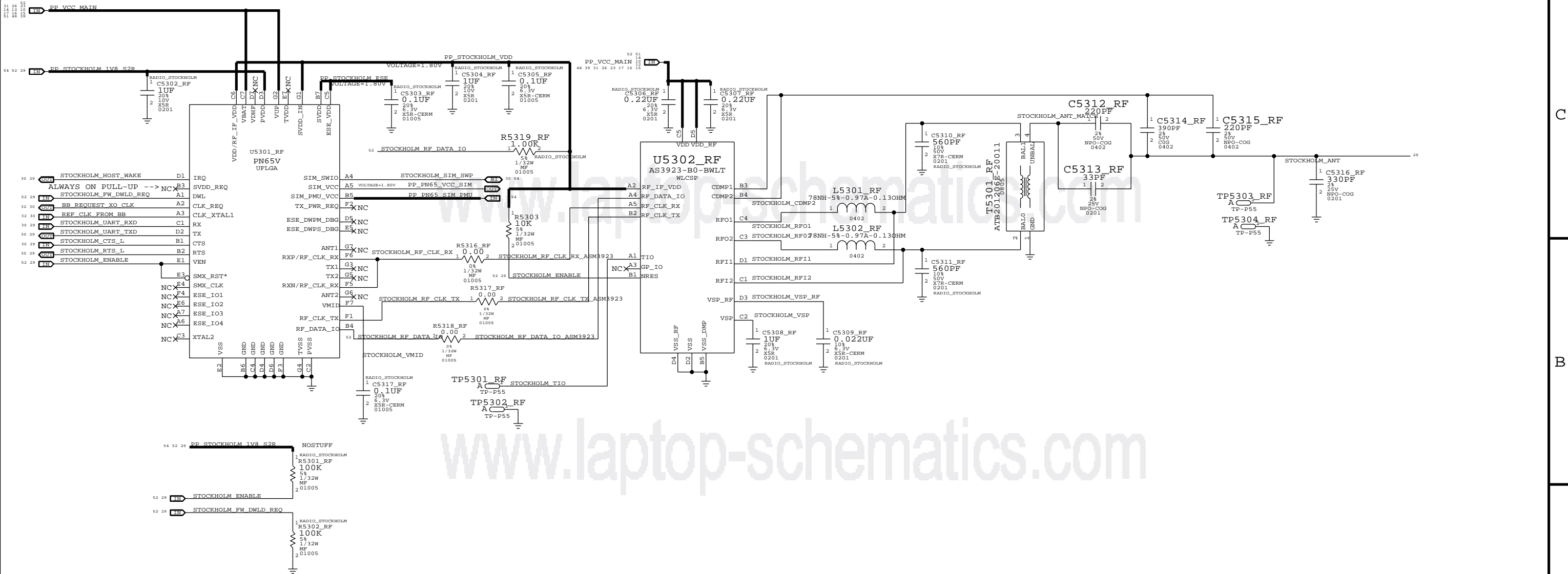
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BECAUSE OF OTHER BULK CAPS IN LAYOUT

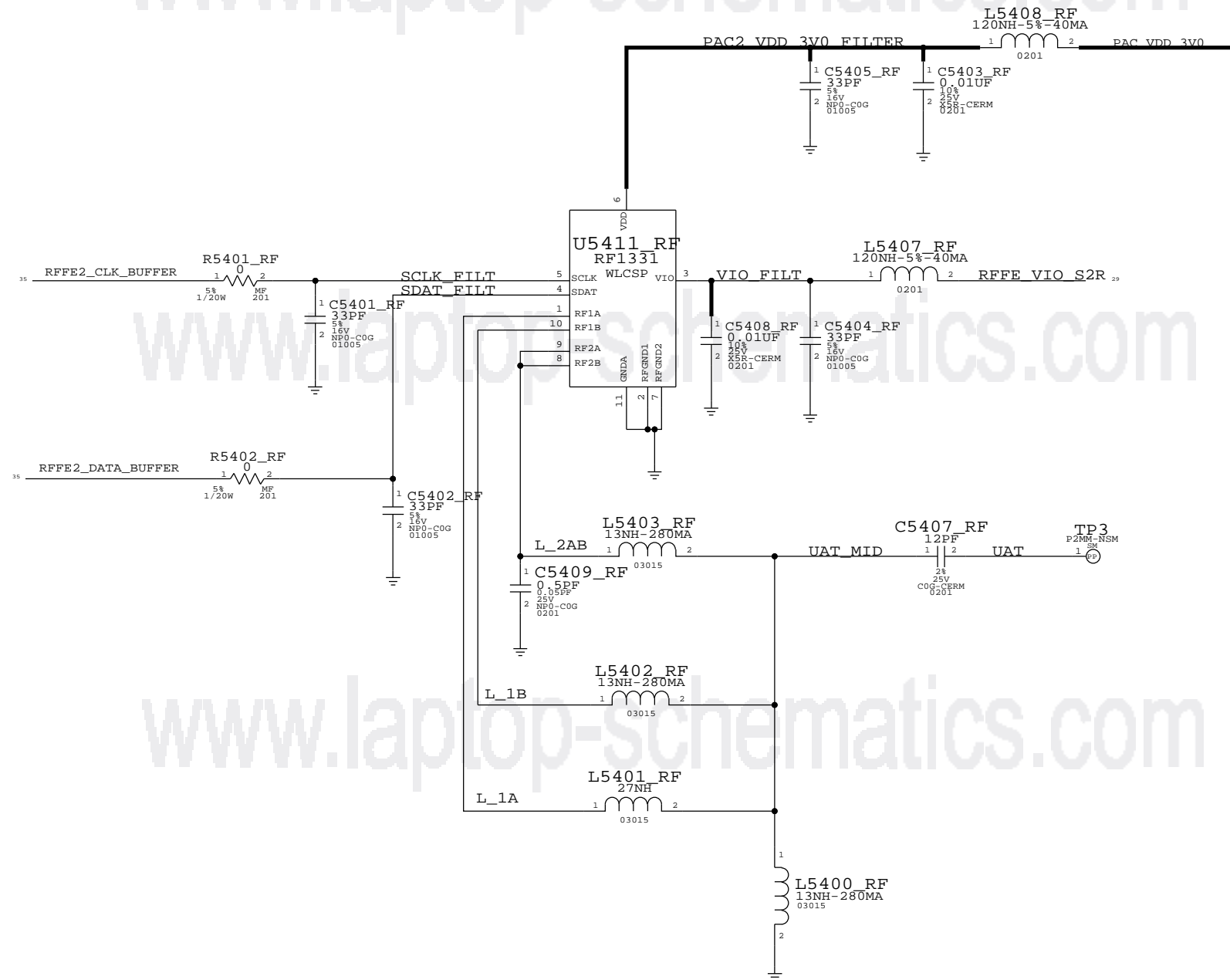



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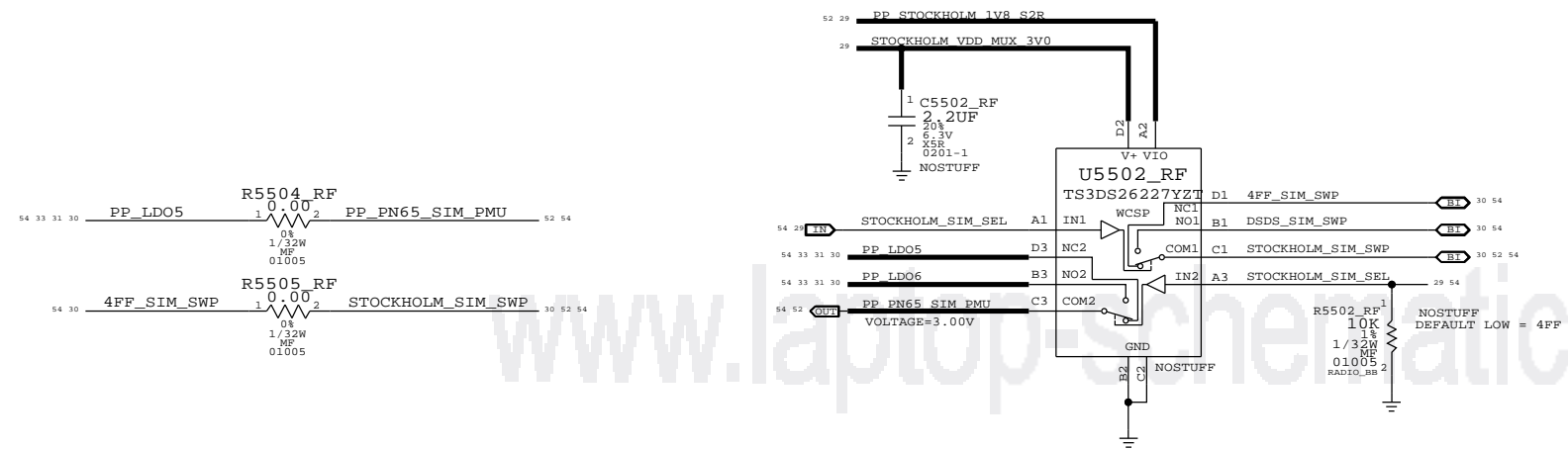
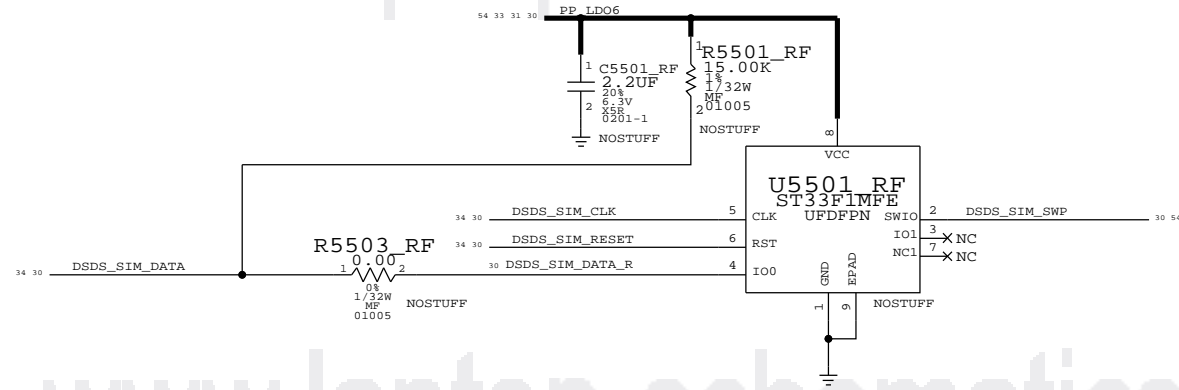
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