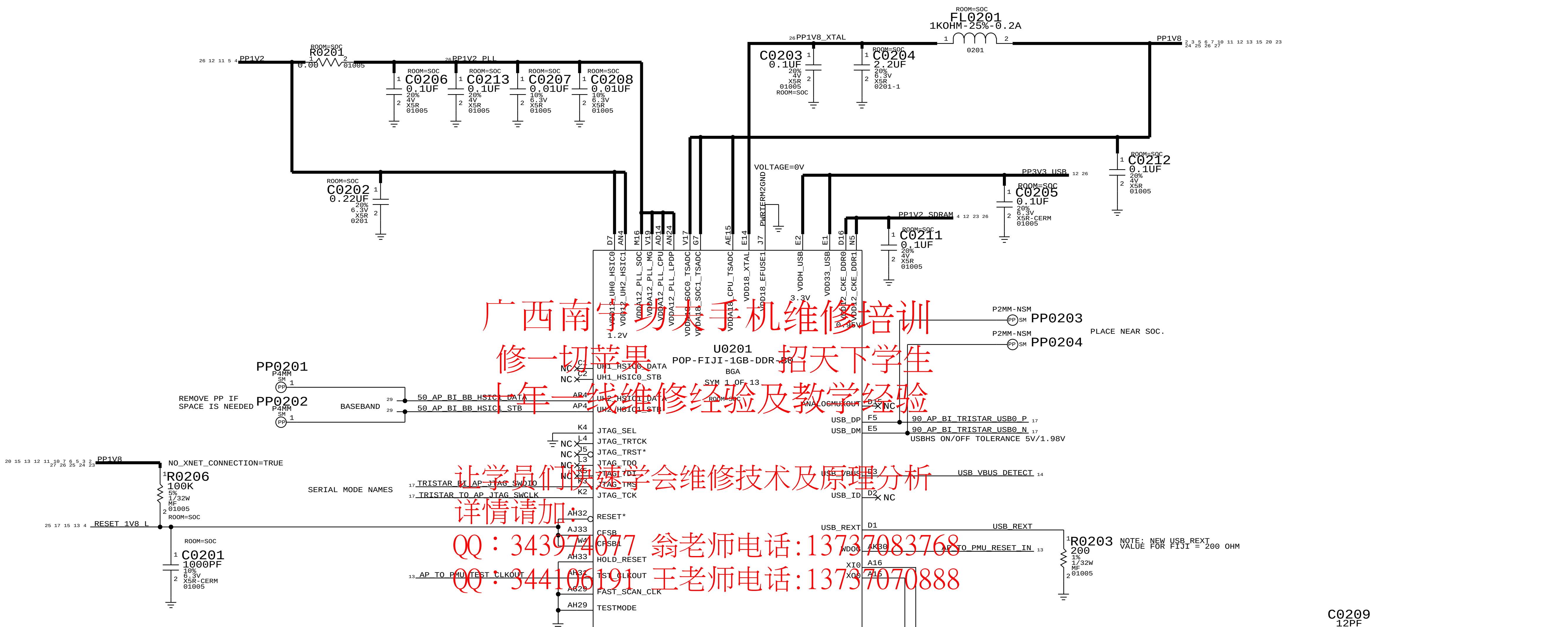
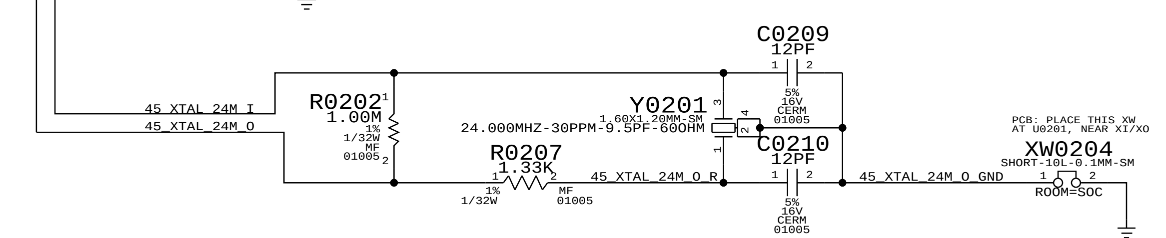
FIJI: JTAG,USB,HSIC,XTAL



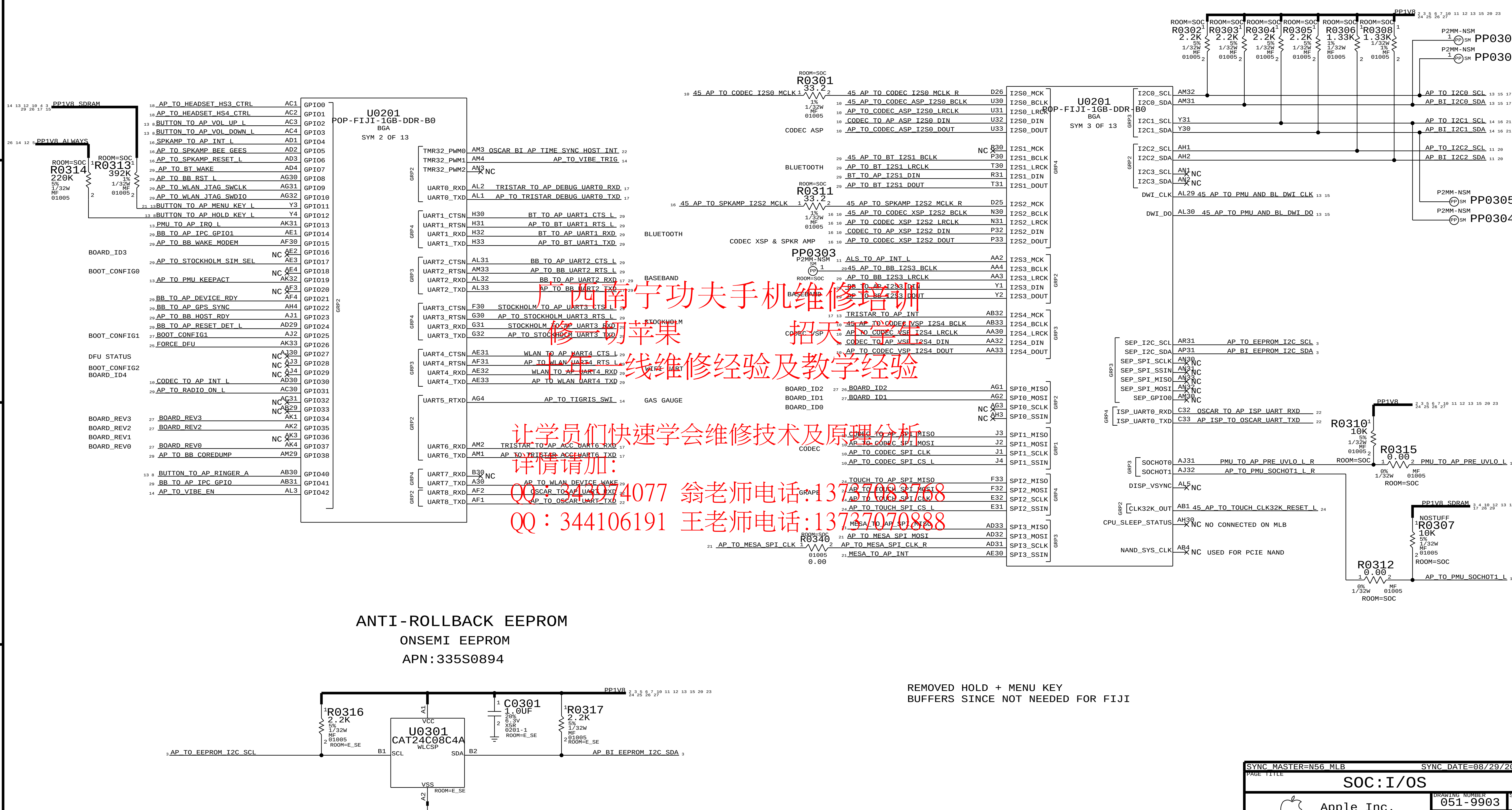


I2C ADDRESS MAP

	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.

FIJI: DIGITAL I/O,BOOTSTRAPPING



SYNC_MASTER=N56_MLB SYNC_DATE=08/29/2013

PAGE TITLE: SOC:I/OS

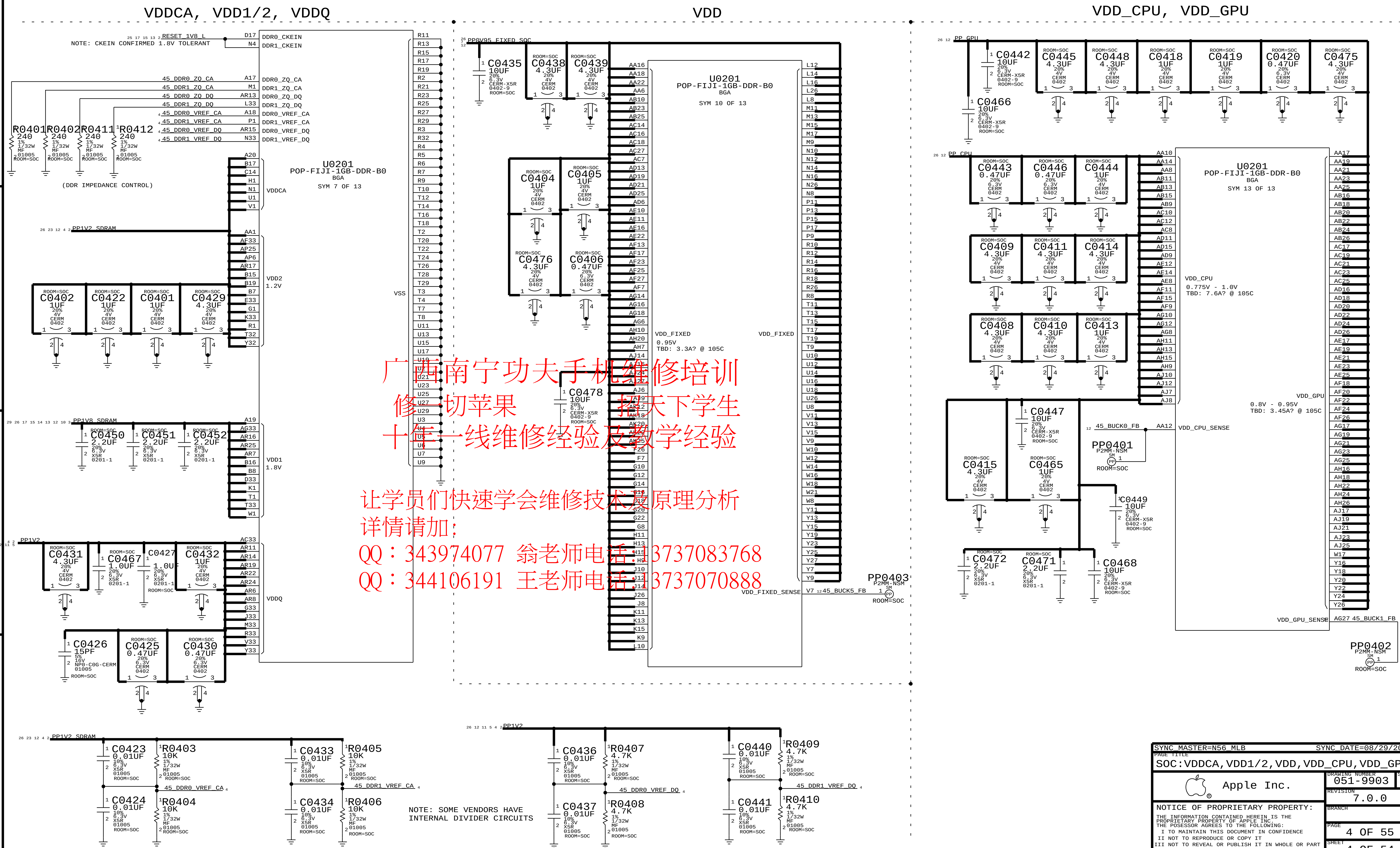
Apple Inc.

DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

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



SYNC_MASTER=N56_MLB SYNC_DATE=08/29/2013

PAGE TITLE
SOC:VDDCA,VDD1/2,VDD,VDD_CPU,VDD_GPU

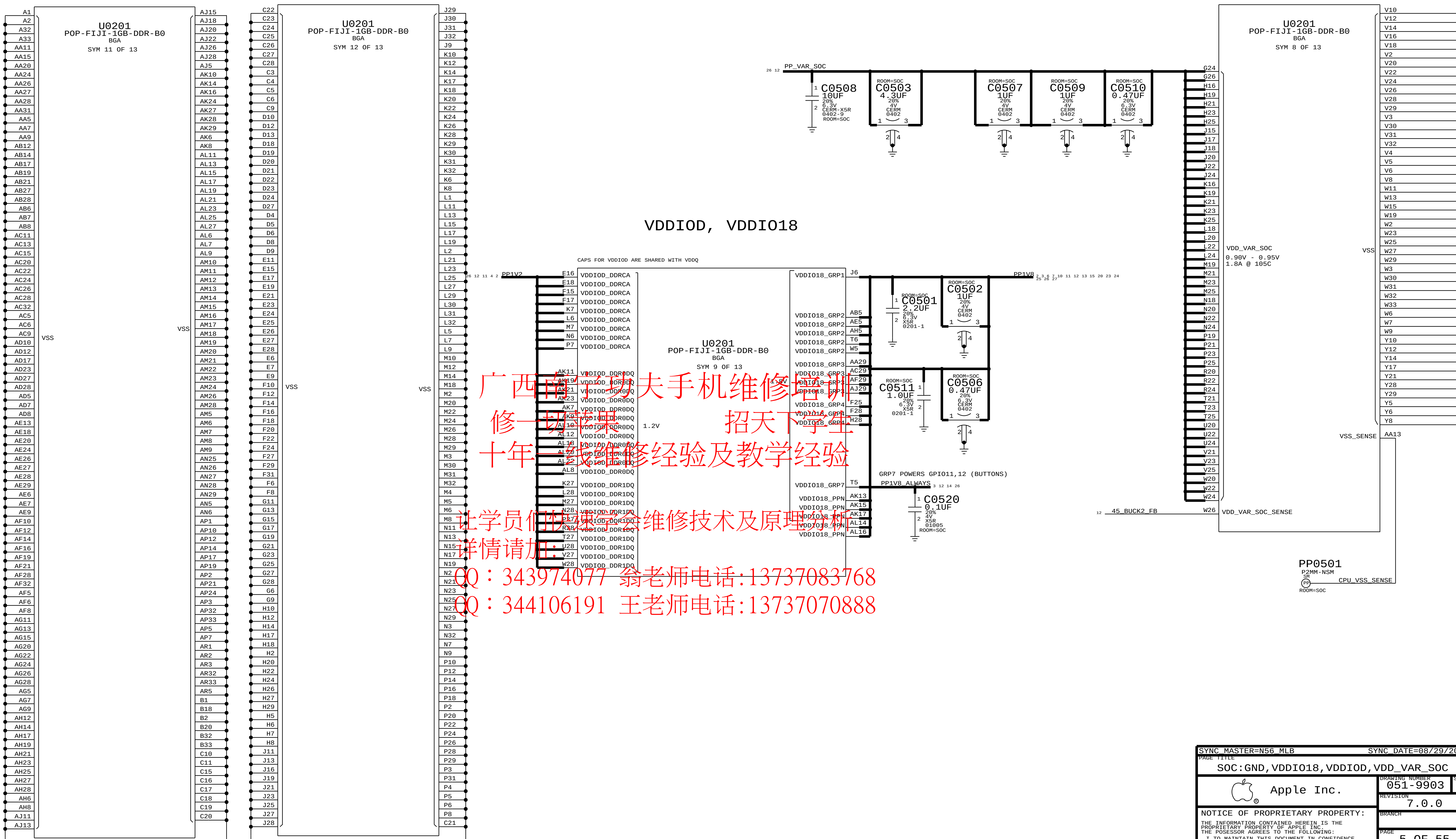
Apple Inc.

DRAWING NUMBER 051-9903 SIZE D

REVISION 7.0.0

BRANCH

FIJI: VDDIOD,VDDIO18,VDD_VAR_SOC



SYNC_MASTER=N56_MLB SYNC_DATE=08/29/2013

PAGE TITLE: SOC:GND,VDDIO18,VDDIOD,VDD_VAR_SOC

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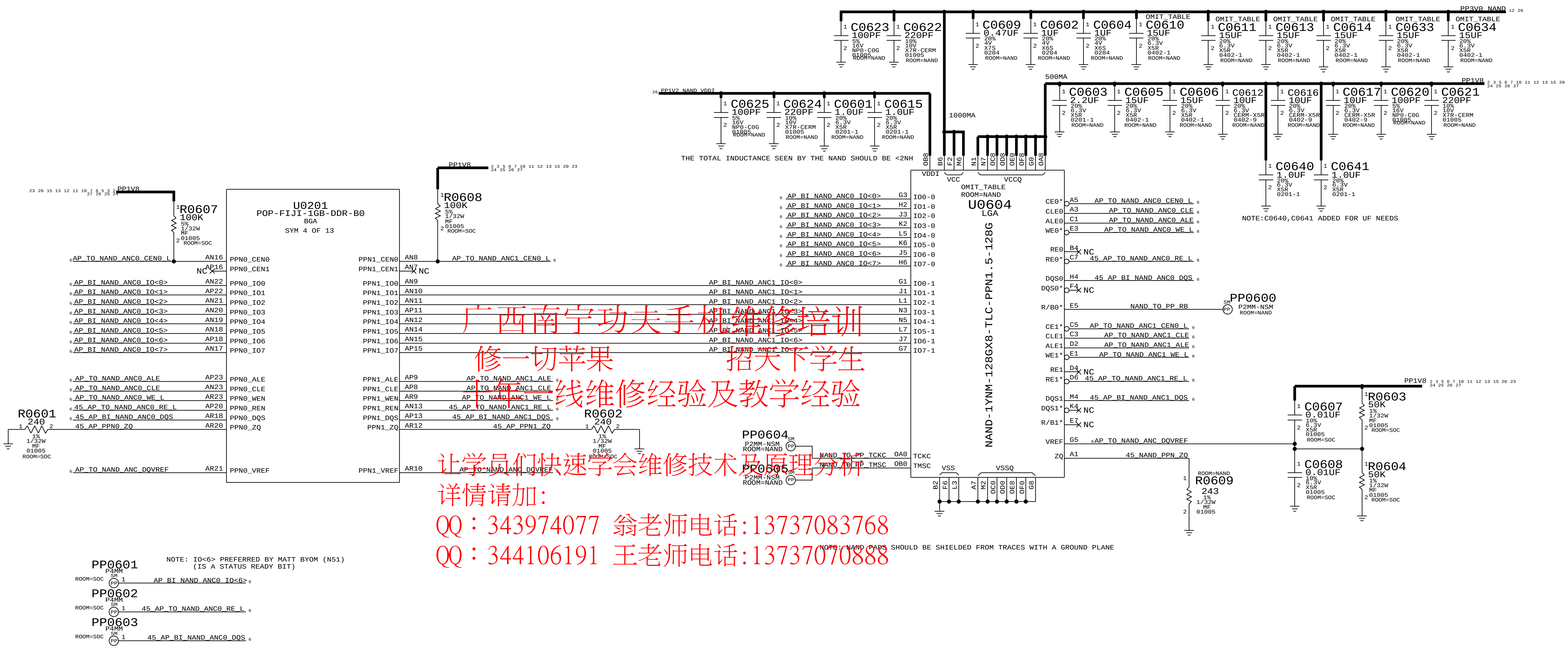
DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

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

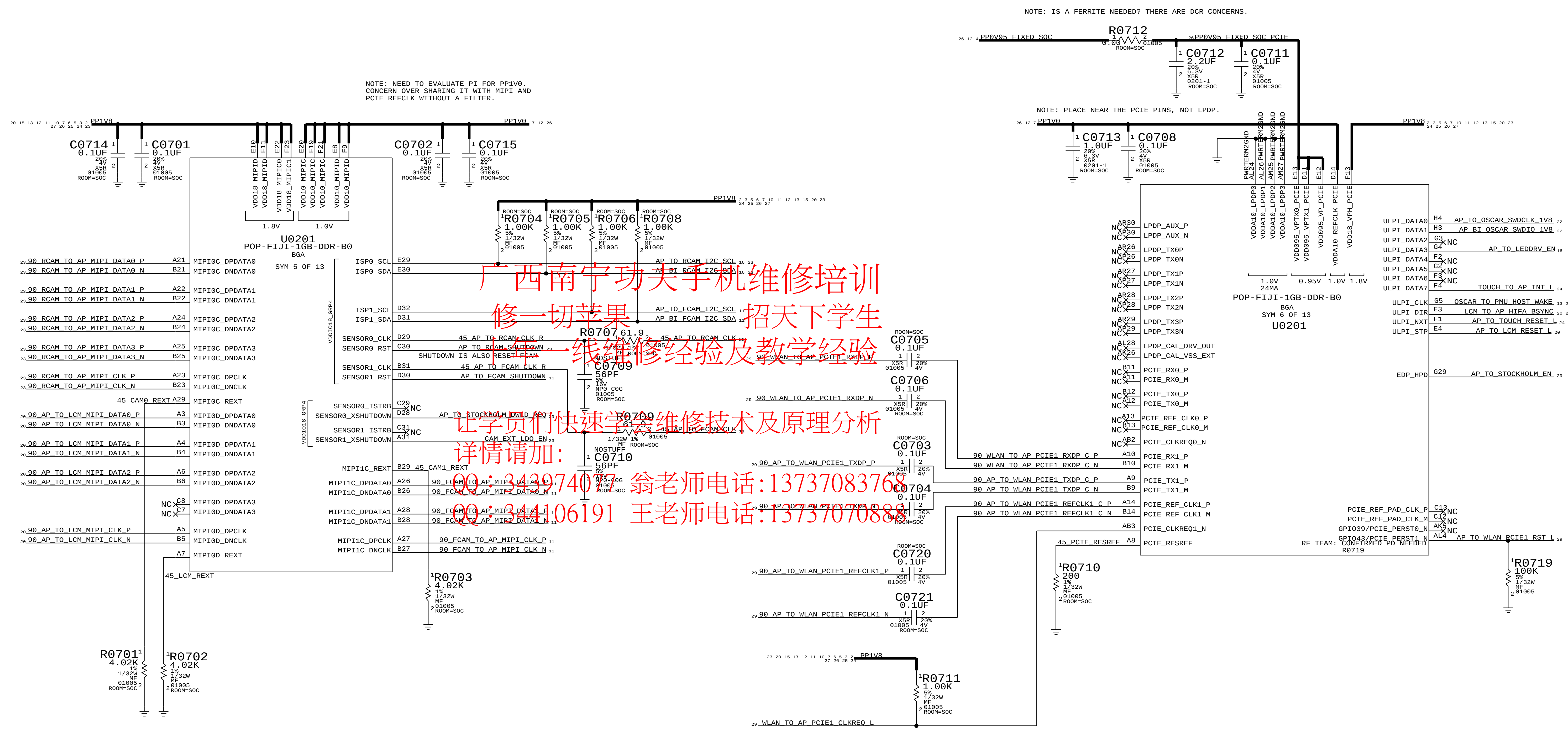
Apple Inc.

DRAWING NUMBER 051-9903 SIZE D

REVISION 7.0.0

BRANCH

FIJI: HIGH SPEED DIG (CAM,LCD,LPDP,PCIE)



SYNC_MASTER=N56_MLB SYNC_DATE=08/29/2013

PAGE TITLE: SOC:CAM,LCD,LPDP,PCIE

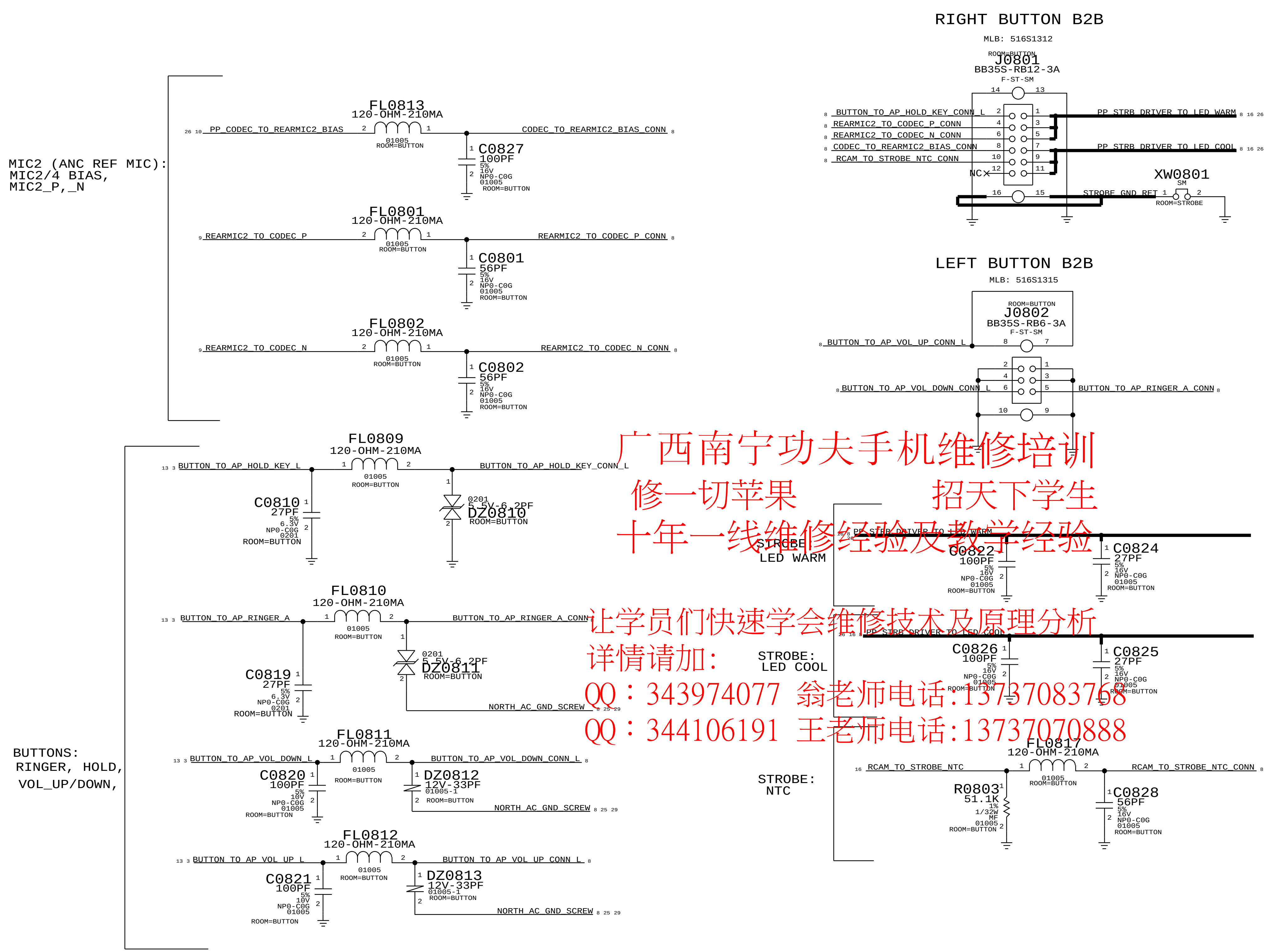
Apple Inc.

DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

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



SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013

PAGE TITLE
IO:BUTTON FLEX CONN

Apple Inc.

DRAWING NUMBER 051-9903 SIZE D

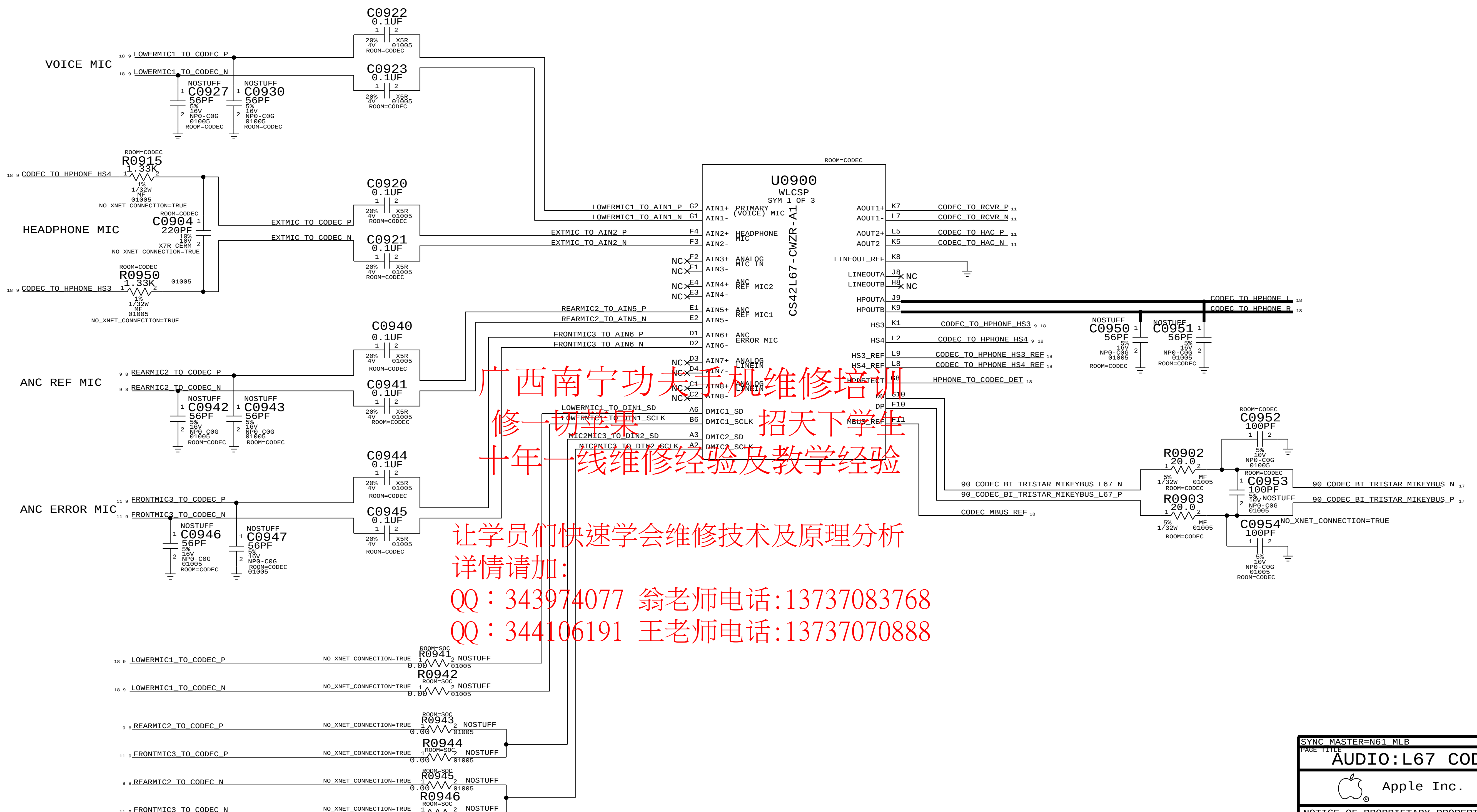
REVISION 7.0.0

BRANCH

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.

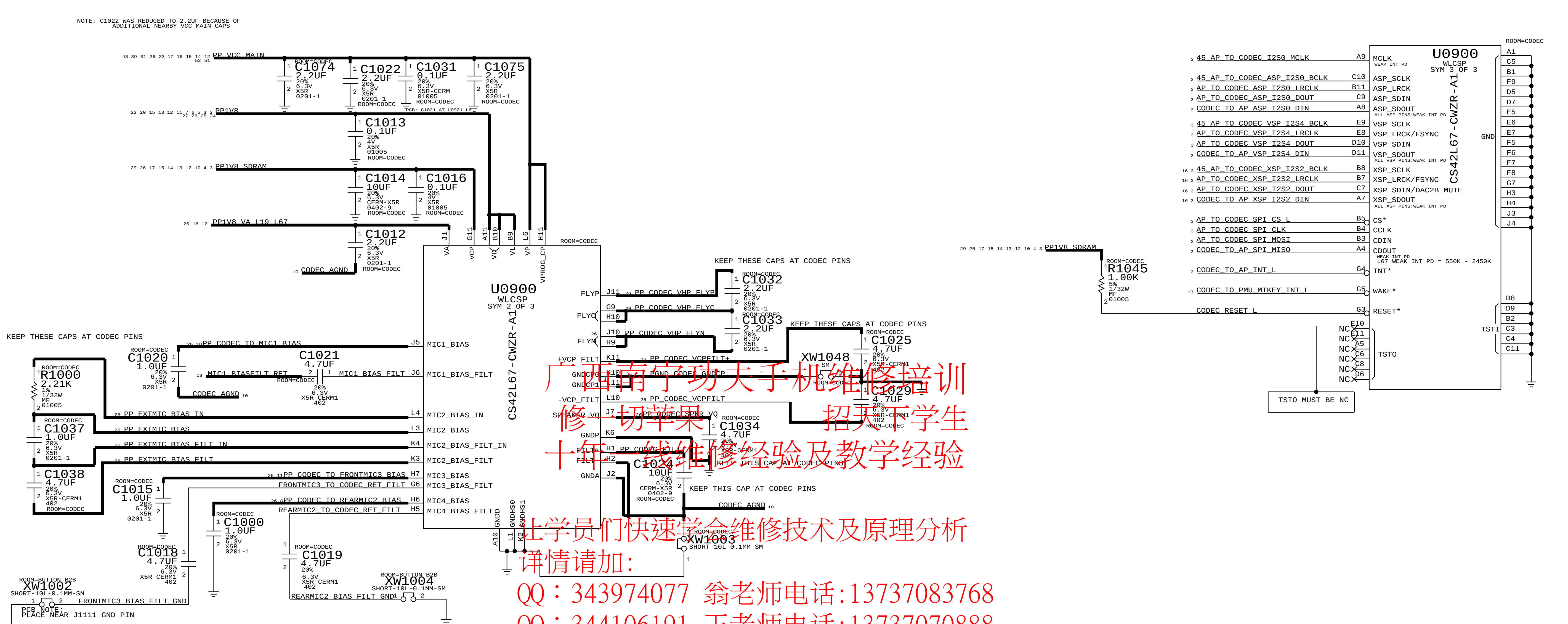
DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

L67 AUDIO CODEC

POWER, MICBIAS

DIGITAL SYSTEM I/O



SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013

PAGE TITLE: AUDIO:L67 CODEC (2/2)

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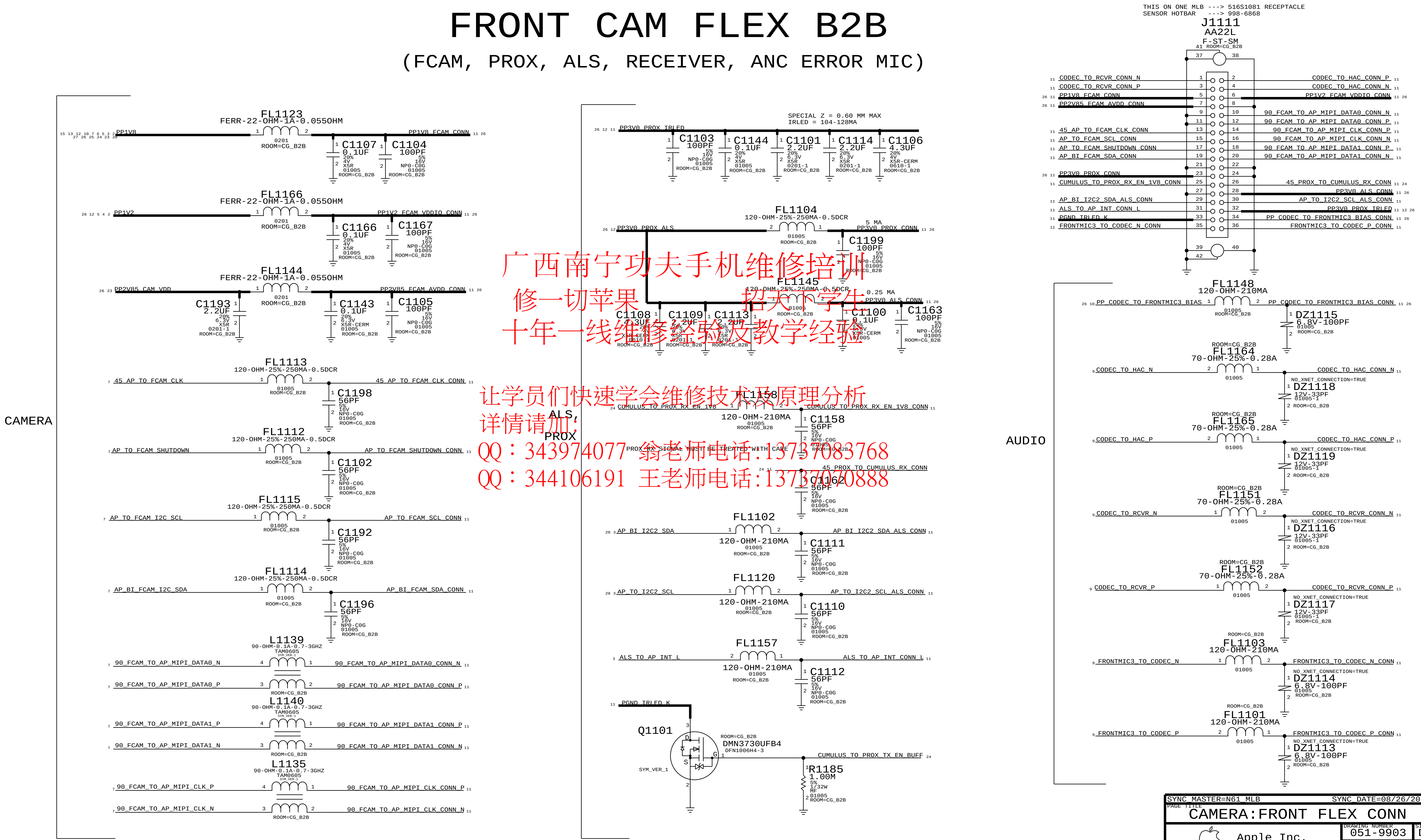
DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

FRONT CAM FLEX B2B

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



SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013

PAGE TITLE
CAMERA:FRONT FLEX CONN

DRAWING NUMBER 051-9903 SIZE D

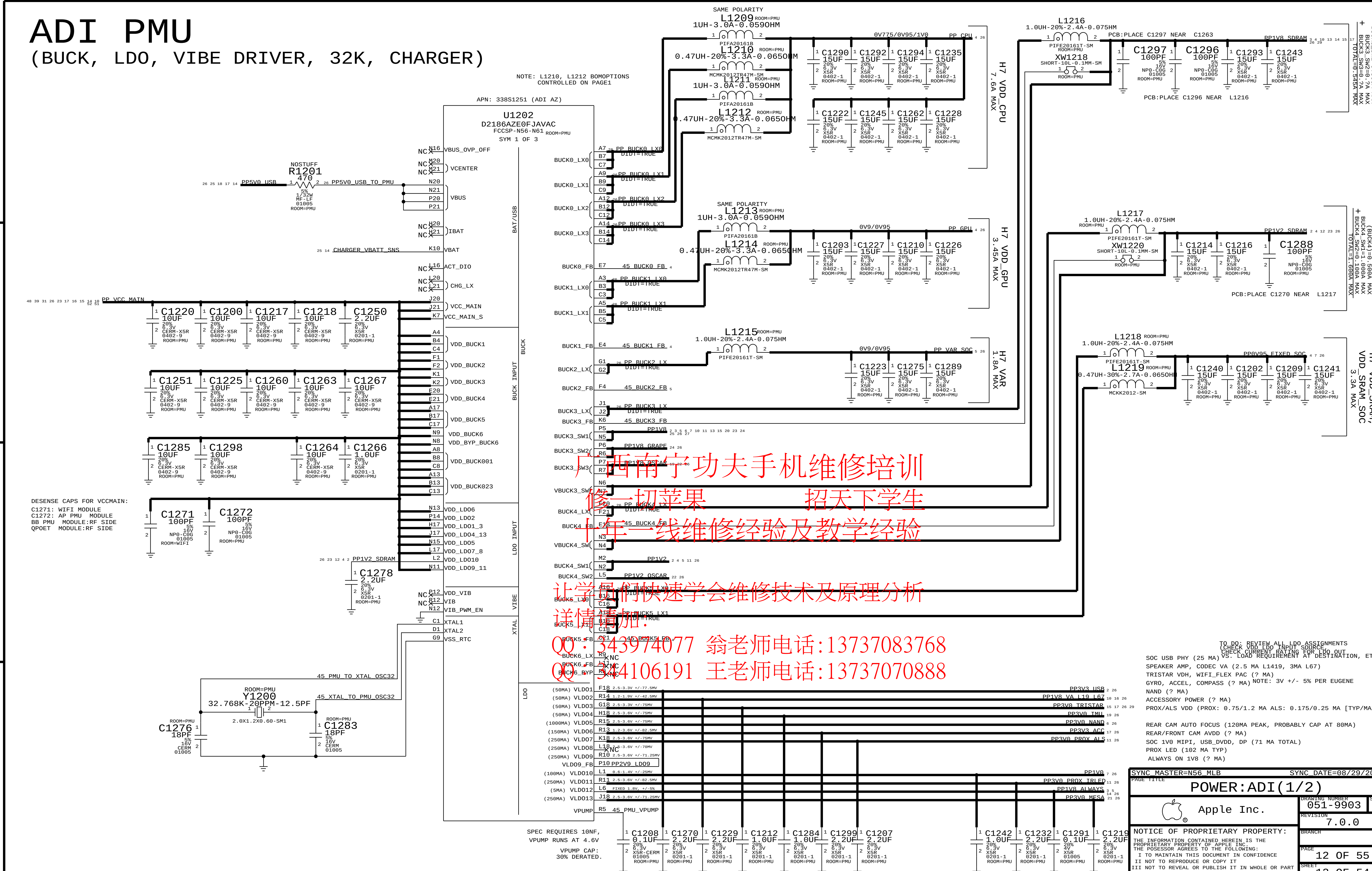
Apple Inc.

REVISION 7.0.0

BRANCH

ADI PMU

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



SYNC_MASTER=N56_MLB SYNC_DATE=08/29/2013

PAGE TITLE: POWER:ADI(1/2)

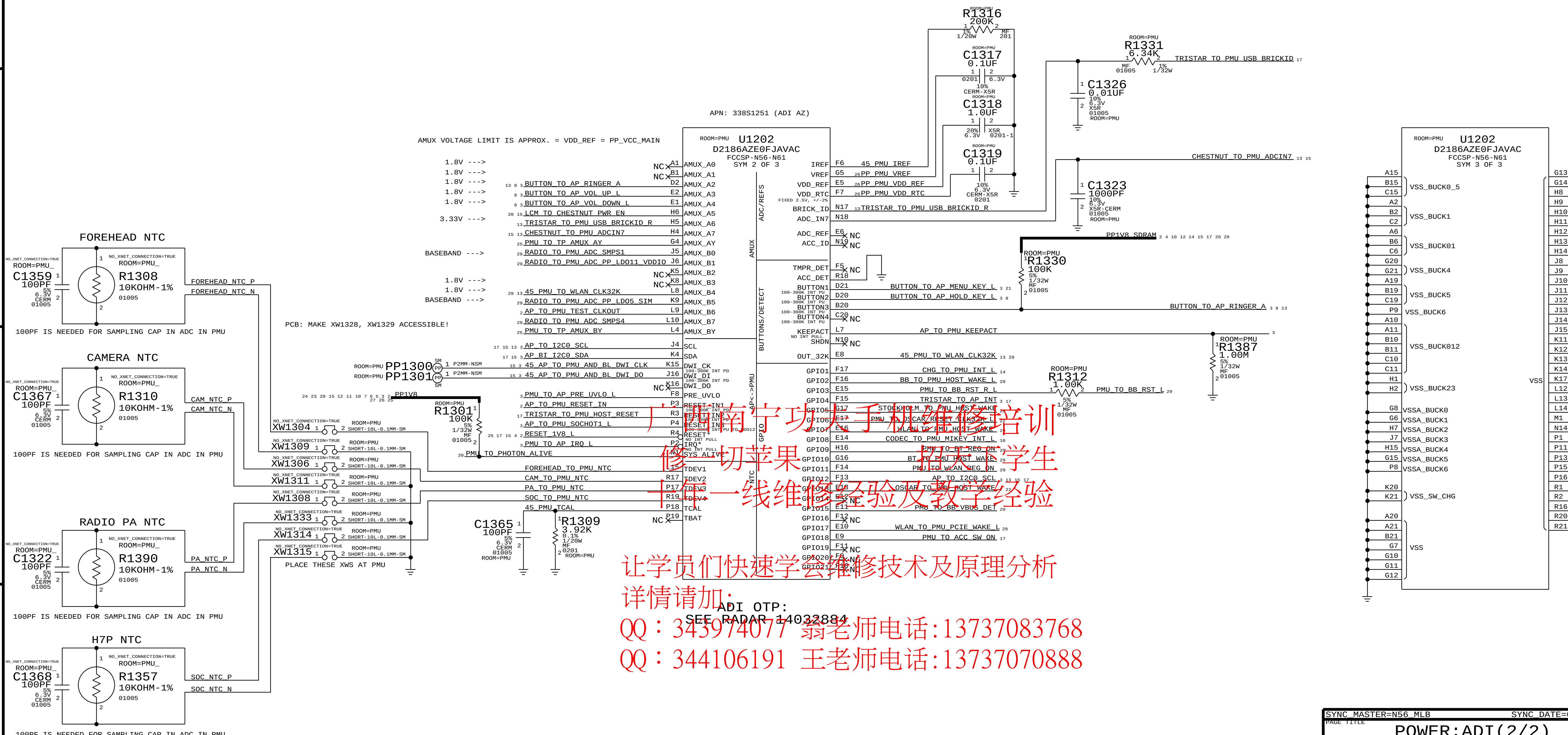
Apple Inc.

DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

ADI PMU

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



ADI OTP:
SEE RADAR 14032884

SYNC_MASTER=N56_MLB SYNC_DATE=08/29/2013

PAGE TITLE: POWER:ADI(2/2)

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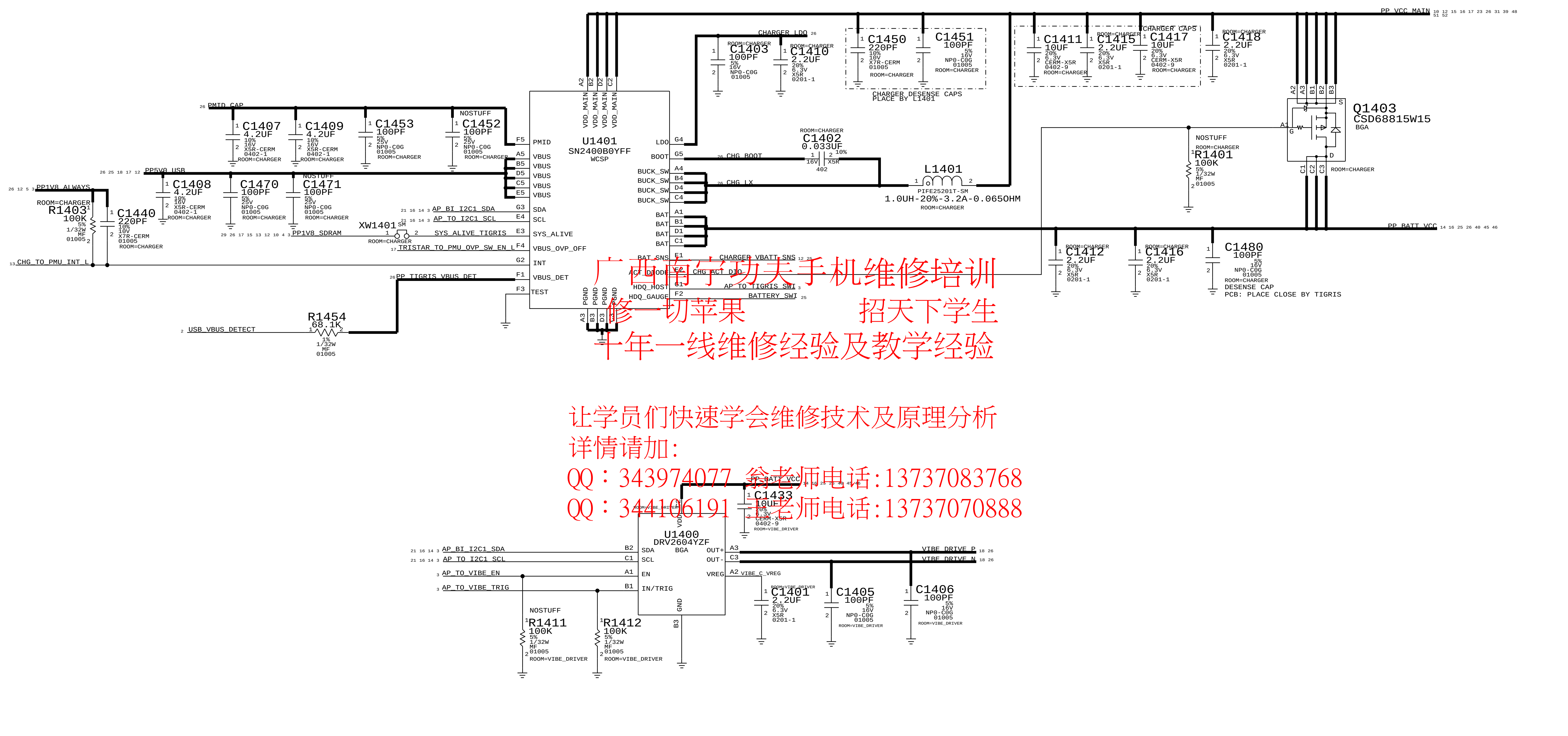
DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

TIGRIS CHARGER & VIBE DRIVER



PAGE TITLE
POWER:TIGRISR,VIBE DRIVER

Apple Inc.

DRAWING NUMBER 051-9903 SIZE D

REVISION 7.0.0

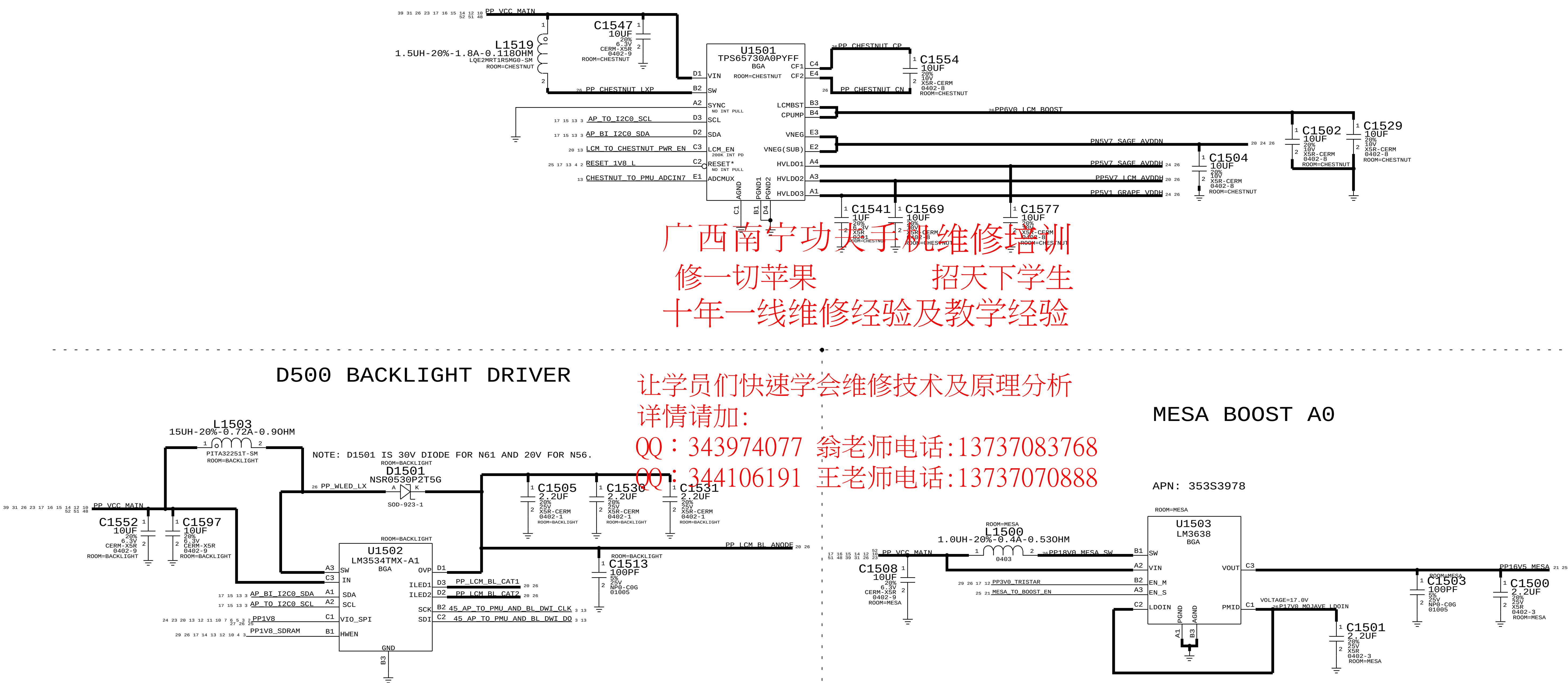
BRANCH

CHESTNUT, BACKLIGHT DRIVER, MESA BOOST

D500 DISPLAY PMU (TI CHESTNUT, 338S1149)

D500 BACKLIGHT DRIVER

MESA BOOST A0



SYNC_MASTER=N61_MLB　SYNC_DATE=08/26/2013

PAGE TITLE: DISPLAY:CHESTNUT,BACKLIGHT DRIVER

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DRAWING NUMBER: 051-9903　SIZE: D

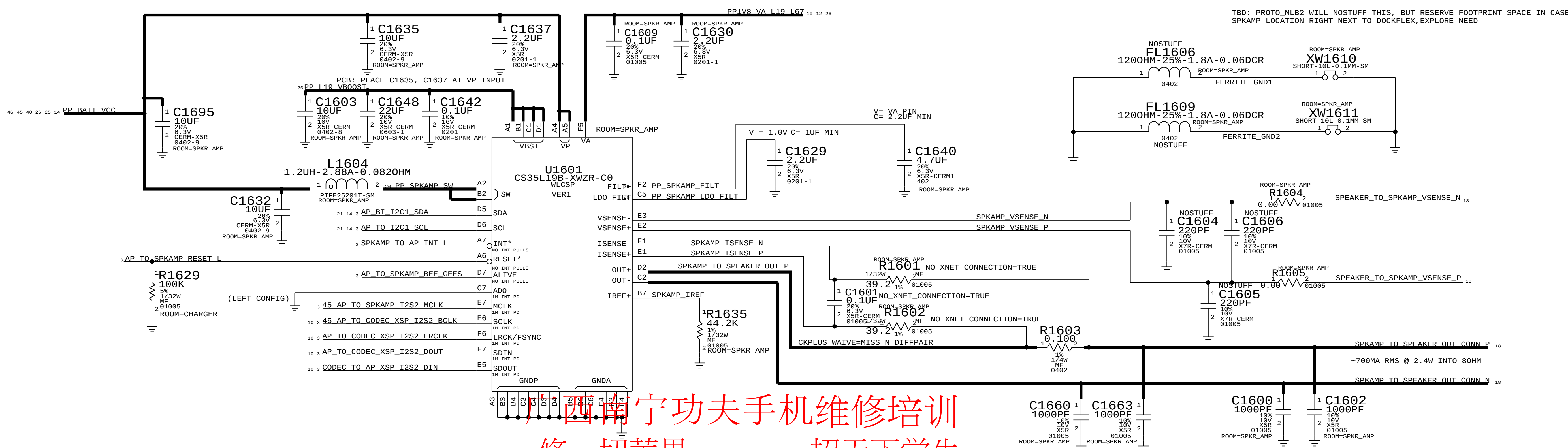
REVISION: 7.0.0

BRANCH

SPEAKER AMP, LED DRIVER

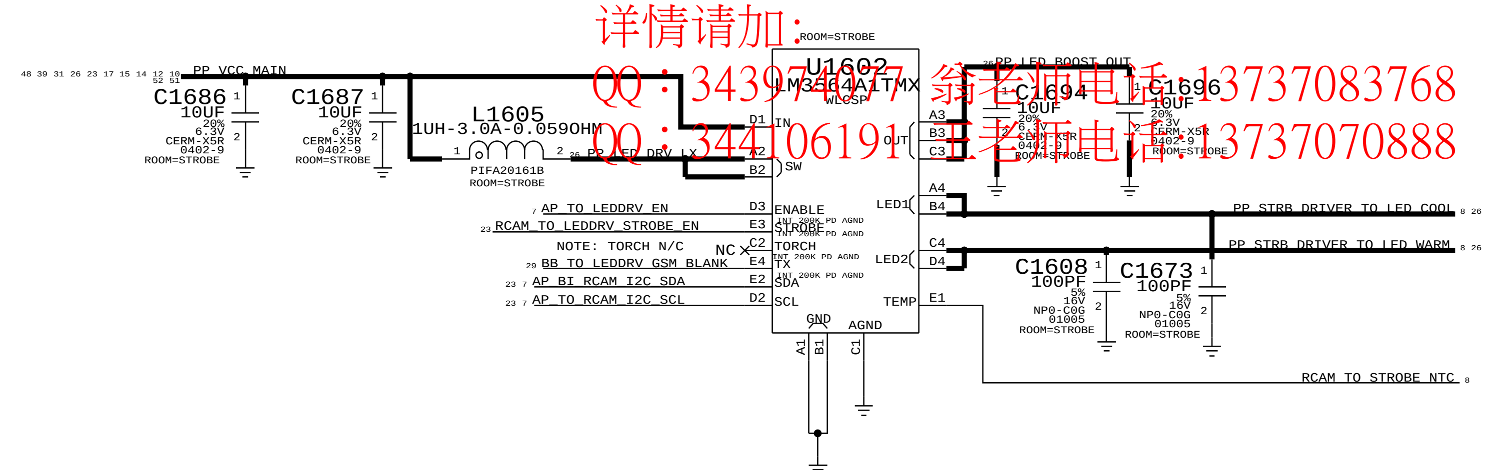
SPEAKER AMP

I2C ADDRESS: 1000000X



STROBE DRIVER

TI: APN 353S3899



SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013

PAGE TITLE: AUDIO:SPKR AMP,STROBE

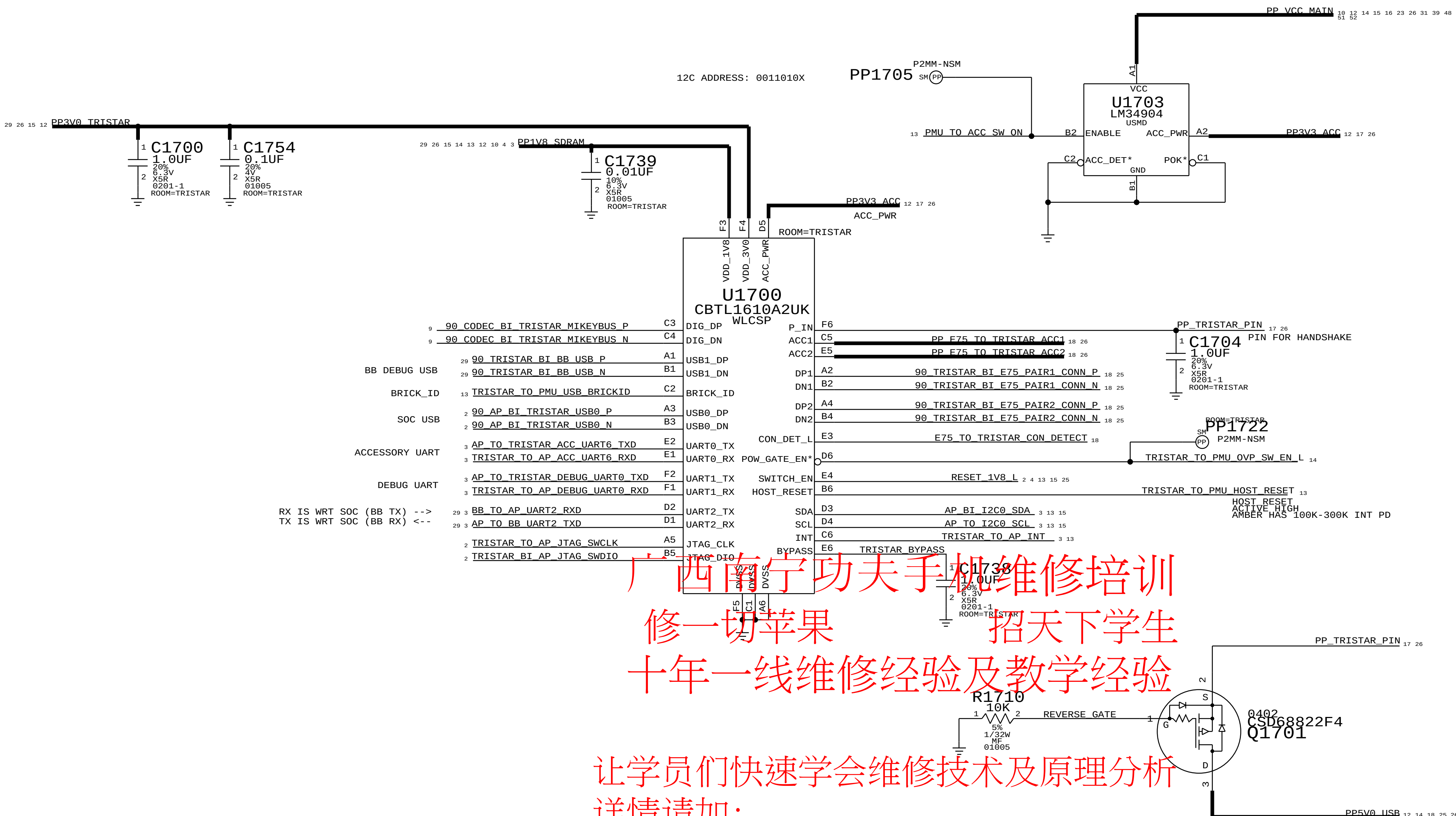
Apple Inc.

DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

TRISTAR2



SYNC_MASTER=N61_MLB　SYNC_DATE=08/26/2013

PAGE TITLE: IO:TRISTAR2

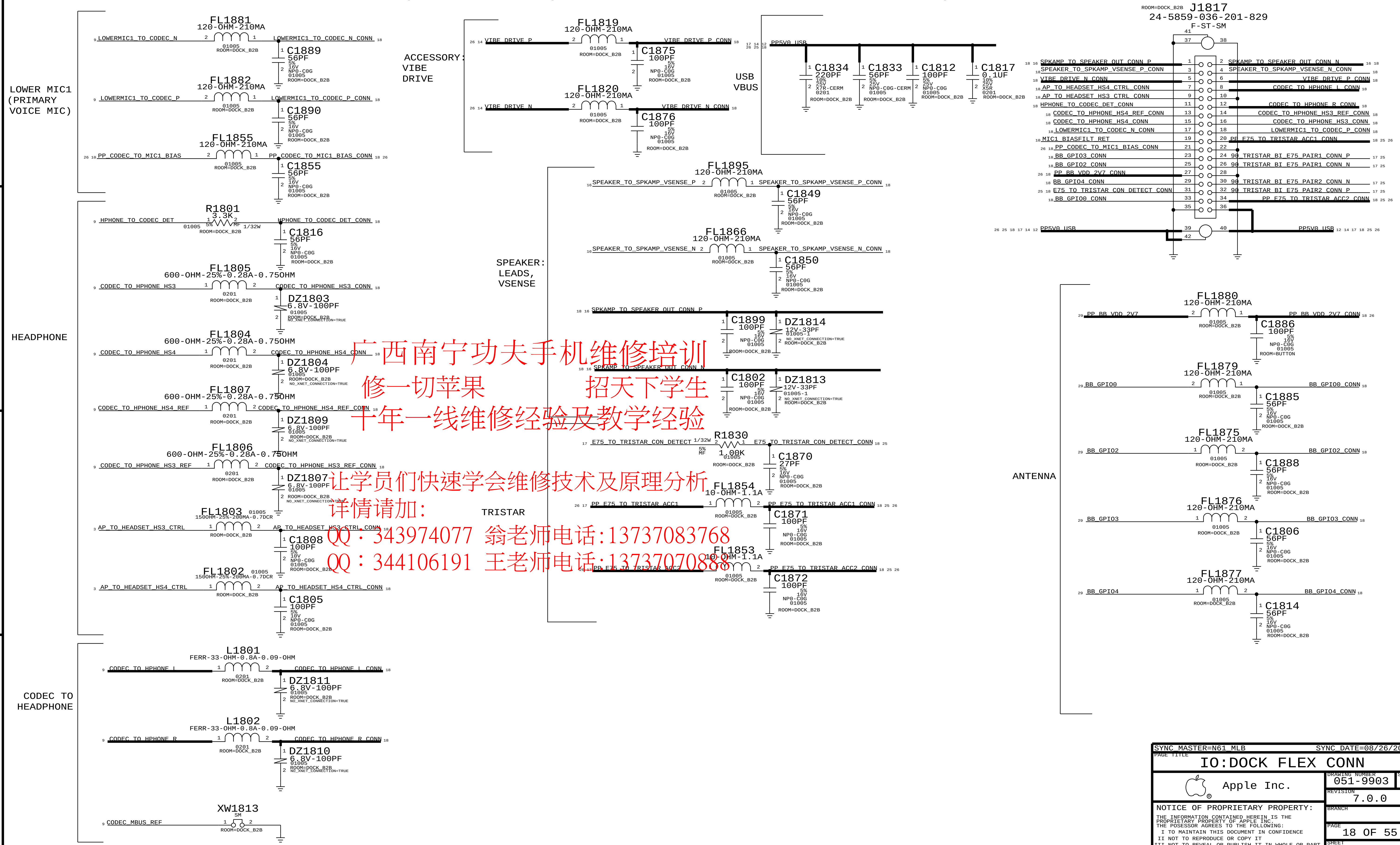
Apple Inc.

DRAWING NUMBER: 051-9903　SIZE: D

REVISION: 7.0.0

BRANCH

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



SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013

PAGE TITLE: IO:DOCK FLEX CONN

Apple Inc.

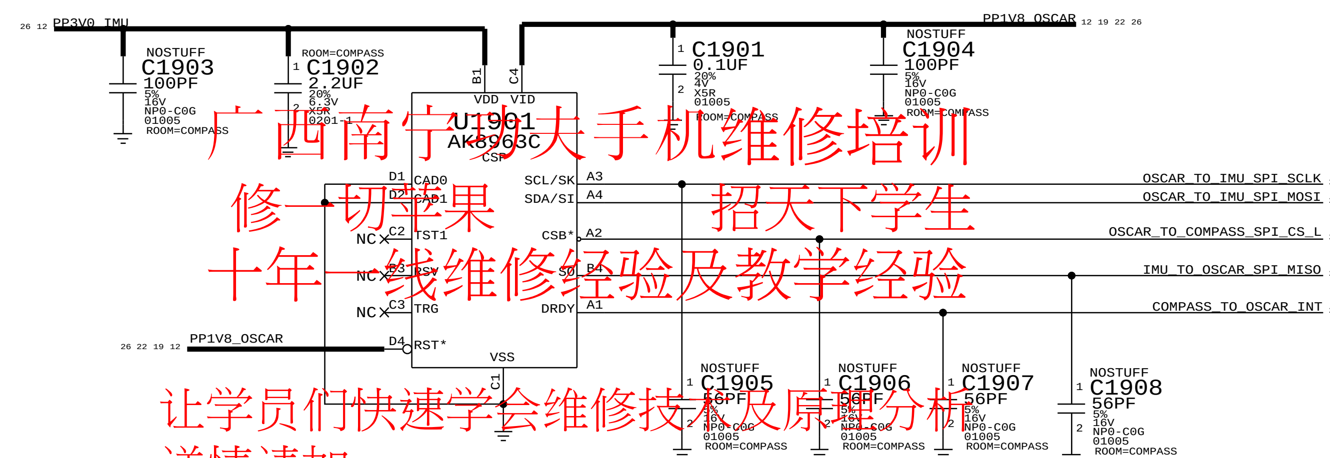
DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

COMPASS - AKM COMPASS IN POR LOCATION

COMPASS CSP: 338S1014



SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013

PAGE TITLE
SENSORS:COMPASS

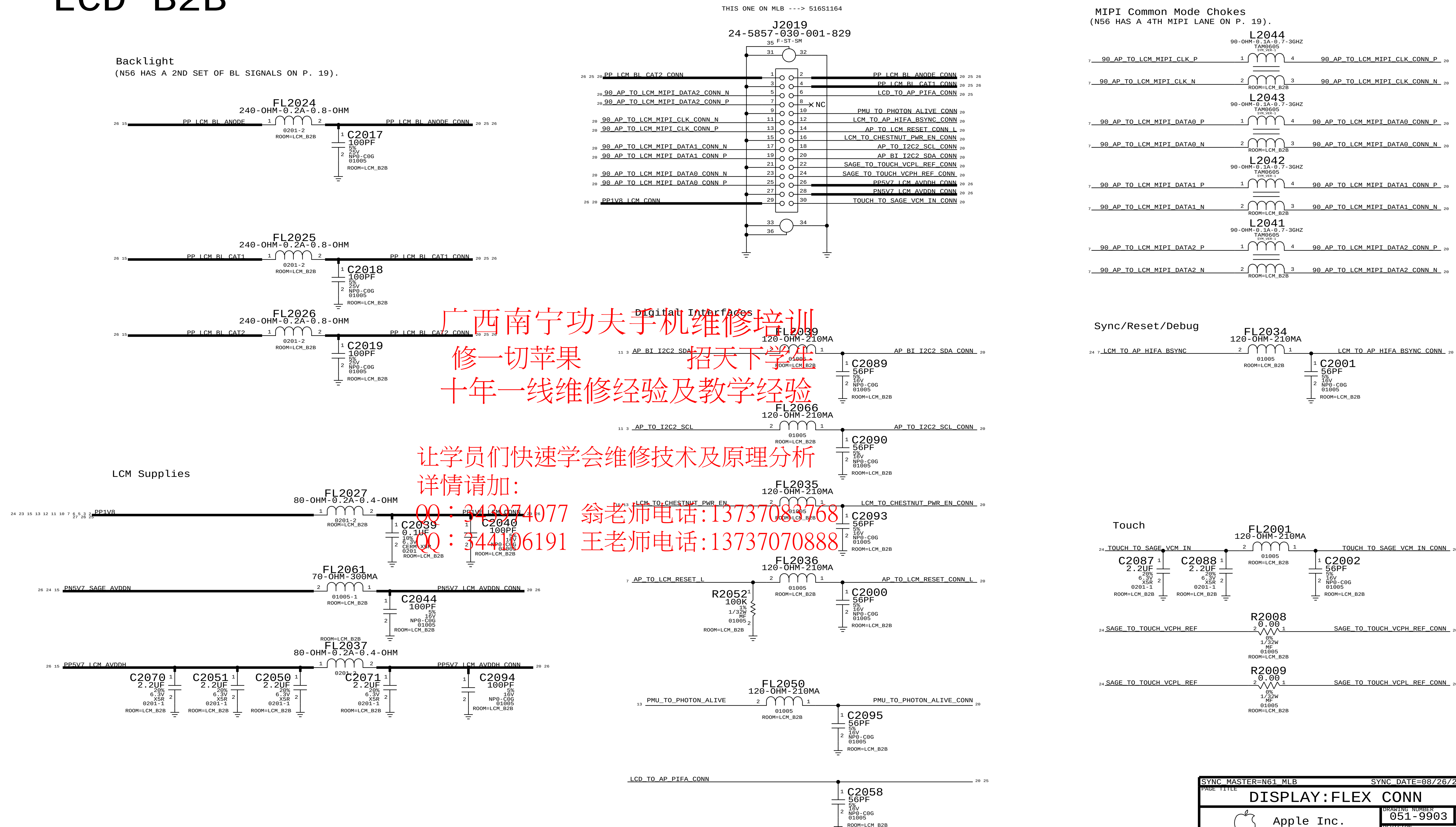
Apple Inc.

DRAWING NUMBER 051-9903 SIZE D

REVISION 7.0.0

BRANCH

LCD B2B



SYNC_MASTER=N61_MLB　SYNC_DATE=08/26/2013

PAGE TITLE: DISPLAY:FLEX CONN

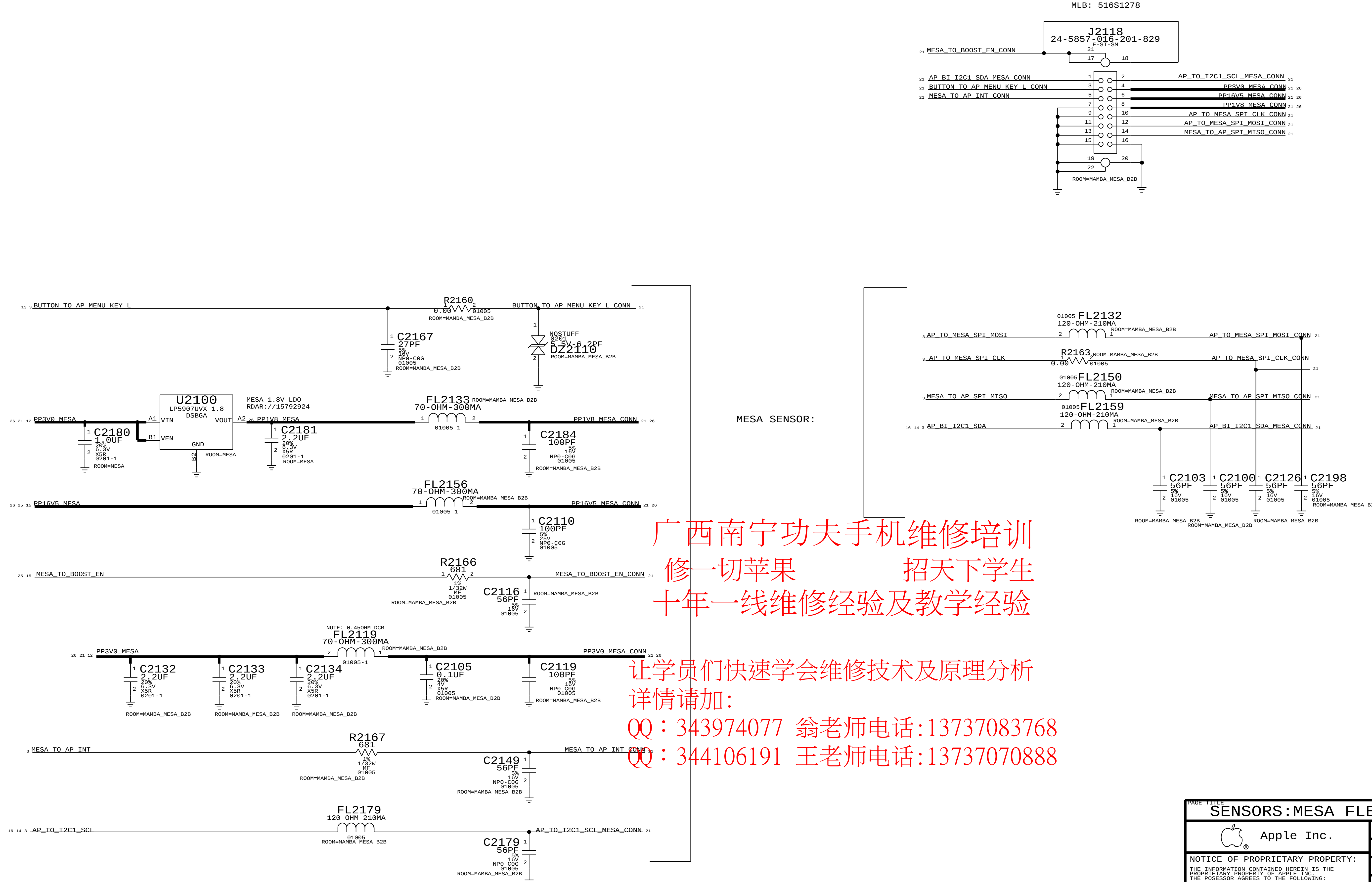
Apple Inc.

DRAWING NUMBER: 051-9903　SIZE: D

REVISION: 7.0.0

BRANCH

MESA CONNECTOR



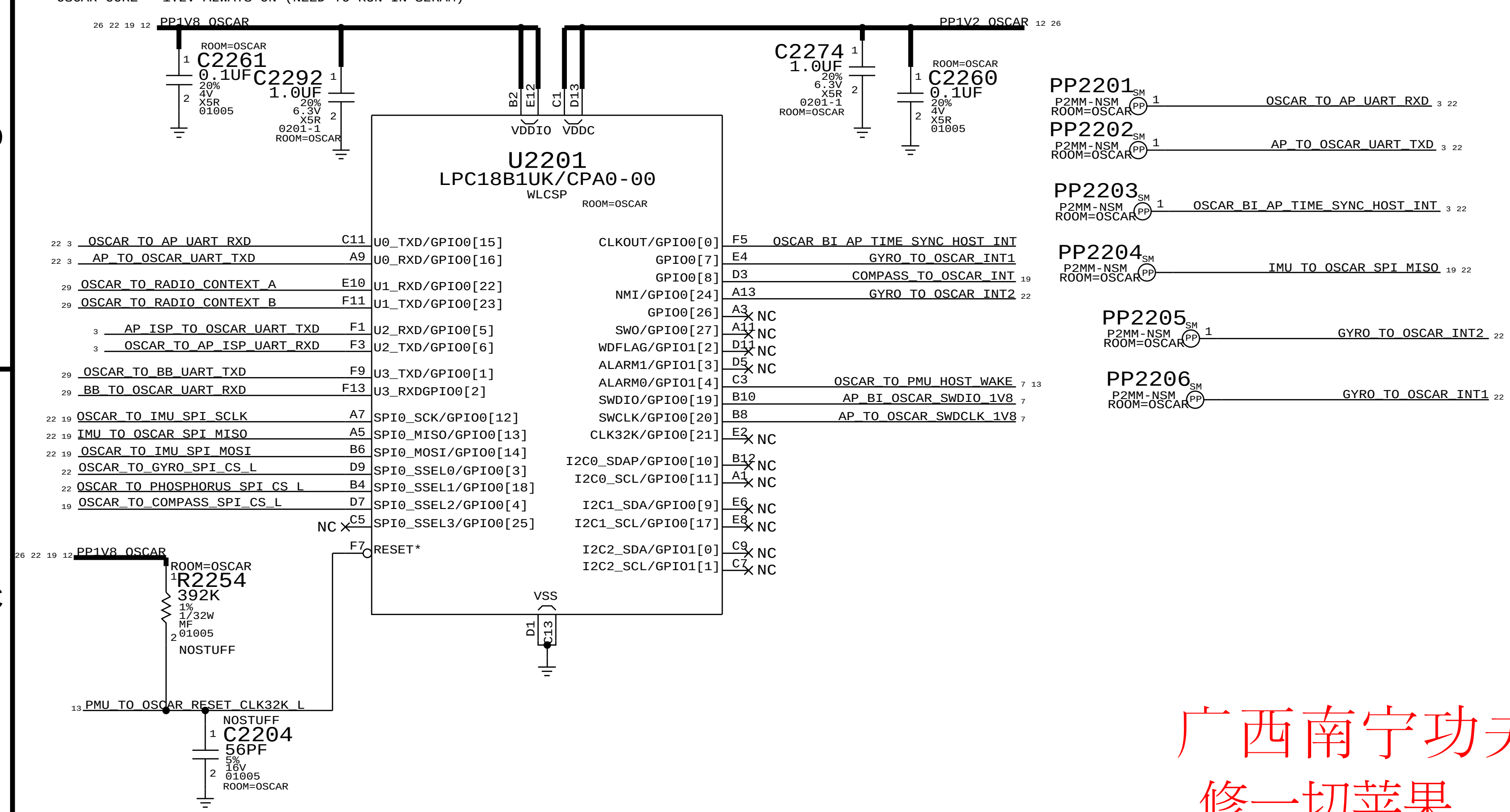
SENSORS:MESA FLEX CONN

Apple Inc.

DRAWING NUMBER	051-9903
SIZE	D
REVISION	7.0.0
BRANCH	
PAGE	21 OF 55
SHEET	21 OF 54

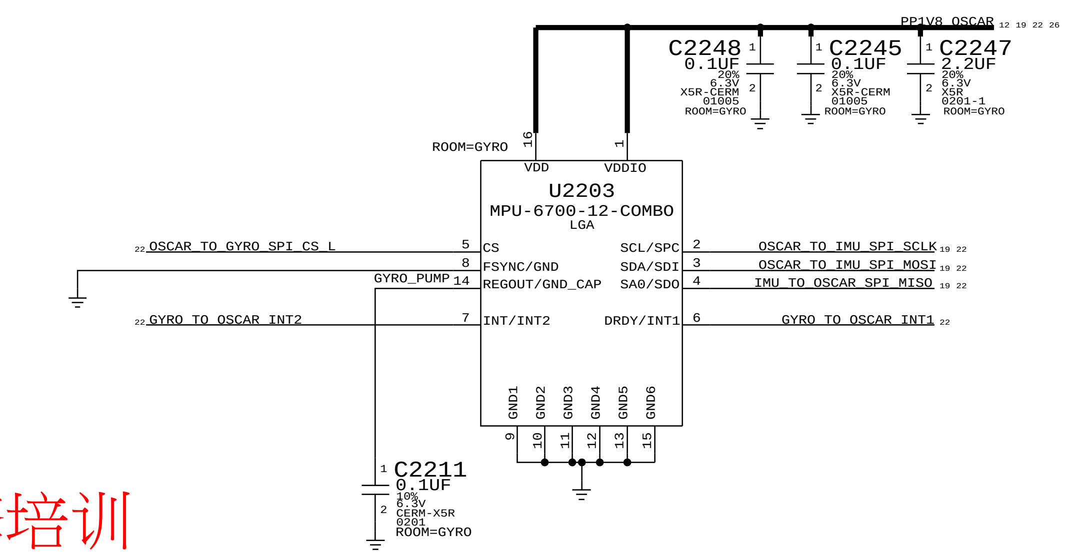
OSCAR + SENSORS

OSCAR VDDIO = 1.8V ALWAYS ON (NEED TO WAKE HOST & RUN PLL)
OSCAR CORE = 1.2V ALWAYS ON (NEED TO RUN IN S2RAM)



CARBON (ACCEL GYRO COMBO)

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



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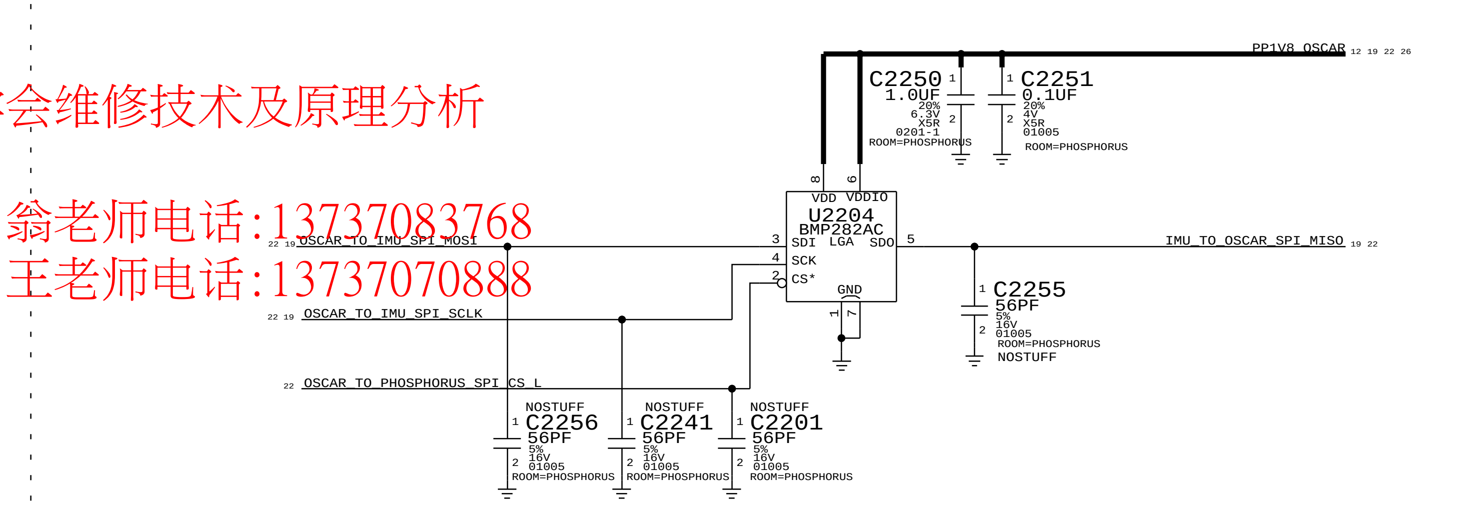
QQ：344106191 王老师电话:13737070888

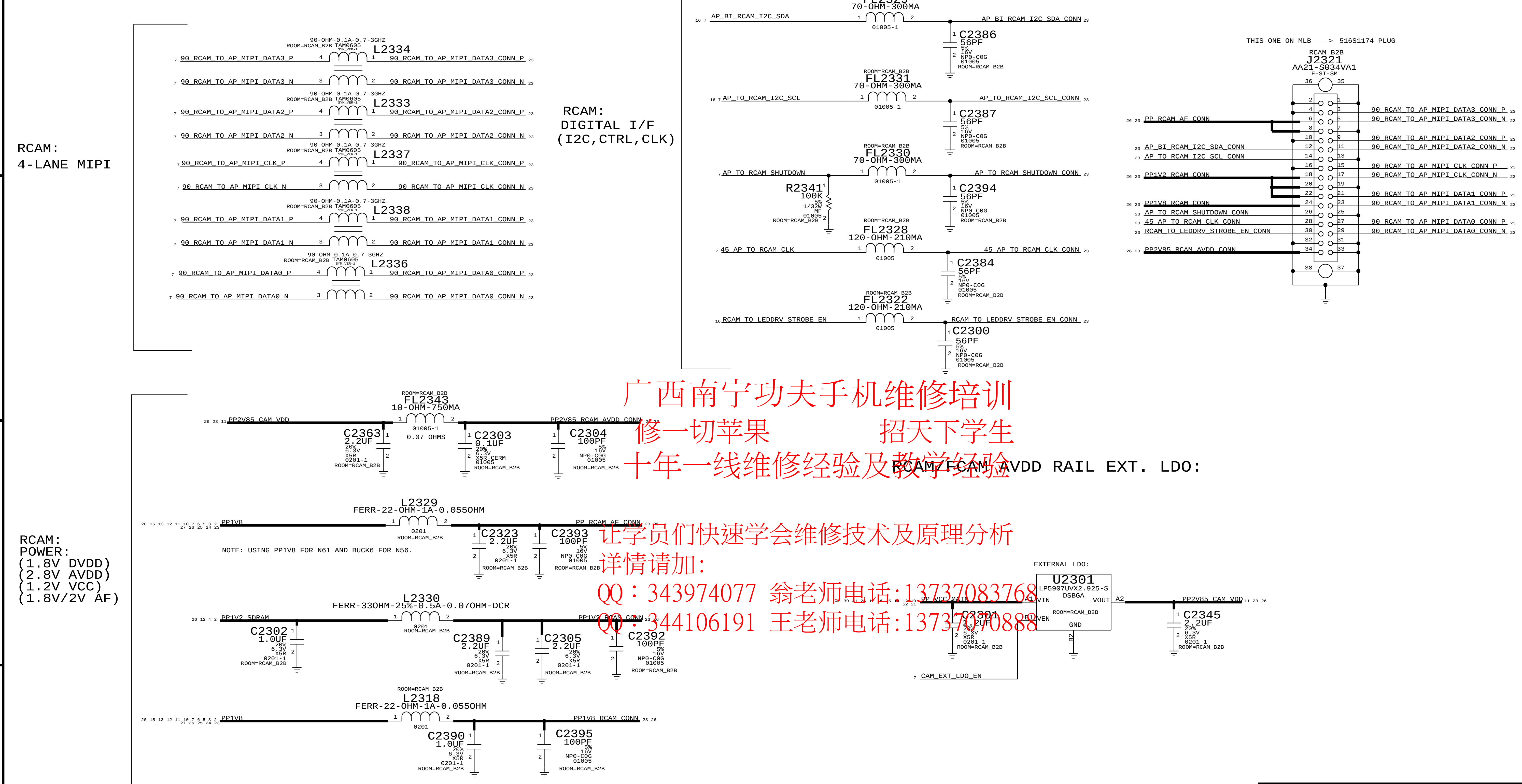
THIS IS OUTSIDE OF SHIELD IN
TO THE RIGHT OF THE NAND

PHOSPHORUS

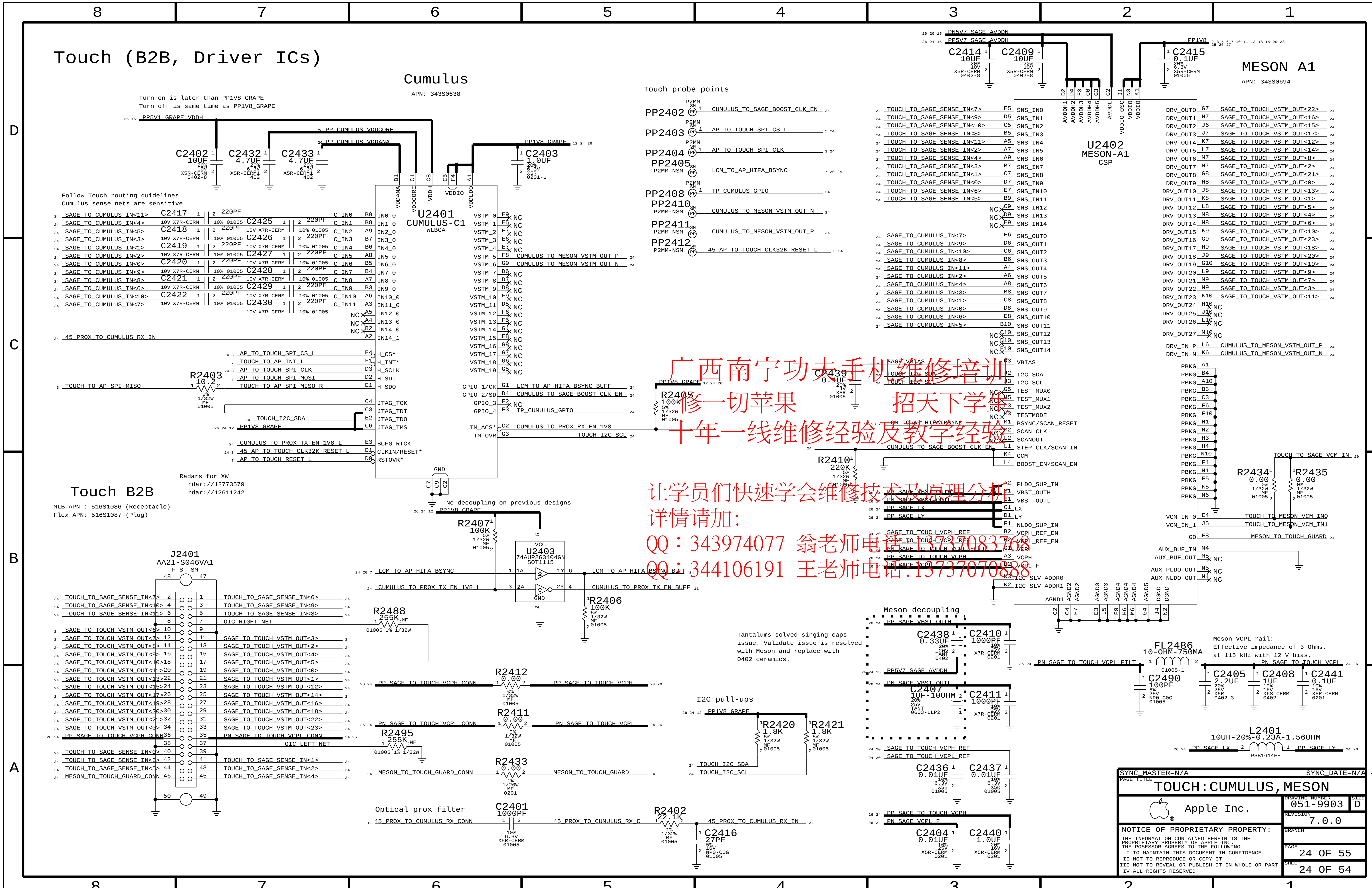


SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013
PAGE TITLE
SENSORS:OSCAR,CARBON,PHOS,MAGNESIUM
Apple Inc.
DRAWING NUMBER 051-9903 SIZE D
REVISION 7.0.0
BRANCH
PAGE 22 OF 55
SHEET 22 OF 54

RCAM B2B (REAR CAMERA CONNECTOR)



SYNC_MASTER=N61_MLB	SYNC_DATE=08/26/2013
PAGE TITLE	CAMERA:REAR FLEX CONN
Apple Inc.	DRAWING NUMBER 051-9903 SIZE D
	REVISION 7.0.0
	BRANCH
	PAGE 23 OF 55
	SHEET 23 OF 54


Touch (B2B, Driver ICs)
Cumulus
APN: 343S0638
Turn on is later than PP1V8_GRAPE
Turn off is same time as PP1V8_GRAPE
Follow Touch routing guidelines
Cumulus sense nets are sensitive
U2401
CUMULUS-C1
WLBGA
Touch probe points
MESON A1
APN: 343S0694
U2402
MESON-A1
CSP
Radars for XW
rdar://12773579
rdar://12611242
Touch B2B
MLB APN : 516S1086 (Receptacle)
Flex APN: 516S1087 (Plug)
No decoupling on previous designs
U2403
74AUP2G3404GN
SOT1115
J2401
AA21-S046VA1
F-ST-SM
Meson decoupling
Tantalums solved singing caps issue. Validate issue is resolved with Meson and replace with 0402 ceramics.
I2C pull-ups
Optical prox filter
Meson VCPL rail:
Effective impedance of 3 Ohms,
at 115 kHz with 12 V bias.
FL2486
10-OHM-750MA
L2401
10UH-20%-0.23A-1.560HM
SYNC_MASTER=N/A
SYNC_DATE=N/A
TOUCH:CUMULUS,MESON
DRAWING NUMBER 051-9903
SIZE D
Apple Inc.
REVISION 7.0.0
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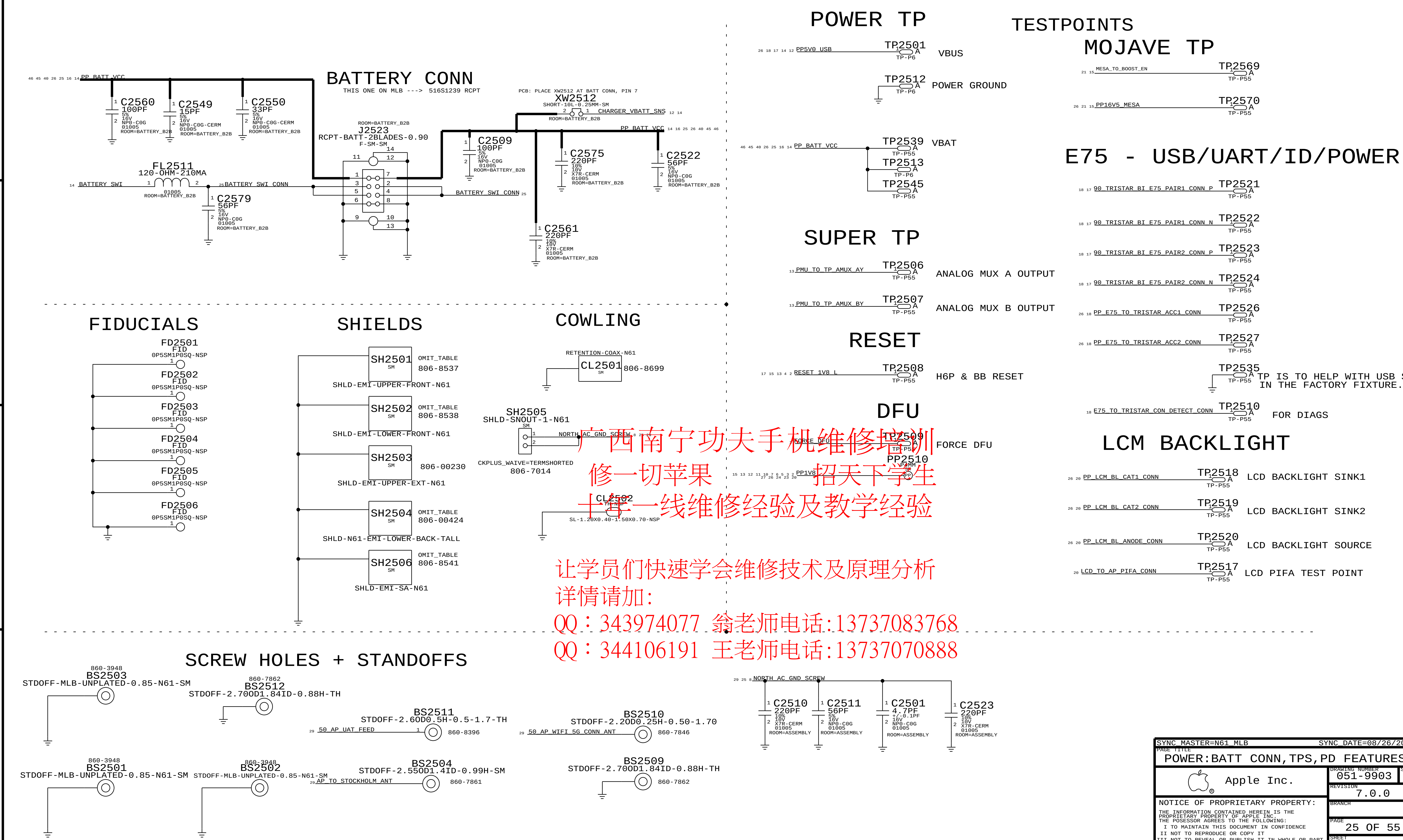
PAGE 24 OF 55
SHEET 24 OF 54

BATT CONN, TPS, STANDOFFS/SHIELDS/FIDUCIALS



SYNC_MASTER=N61_MLB SYNC_DATE=08/26/2013

PAGE TITLE: POWER:BATT CONN,TPS,PD FEATURES

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DRAWING NUMBER 051-9903 SIZE D

REVISION 7.0.0

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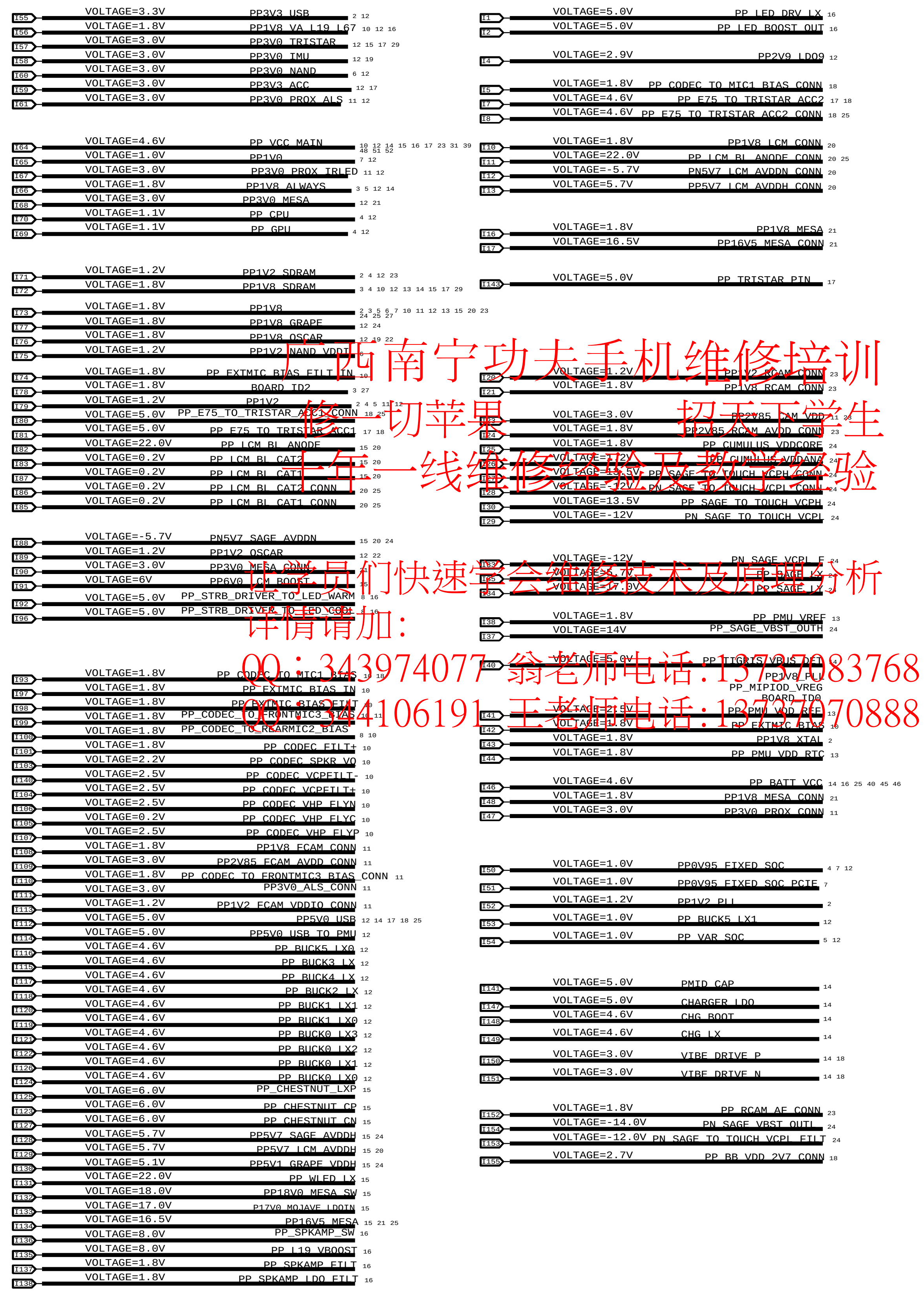
VOLTAGE PROPERTIES



PAGE TITLE
SYSTEM:VOLTAGE PROPERTIES

Apple Inc.

DRAWING NUMBER 051-9903 SIZE D

REVISION 7.0.0

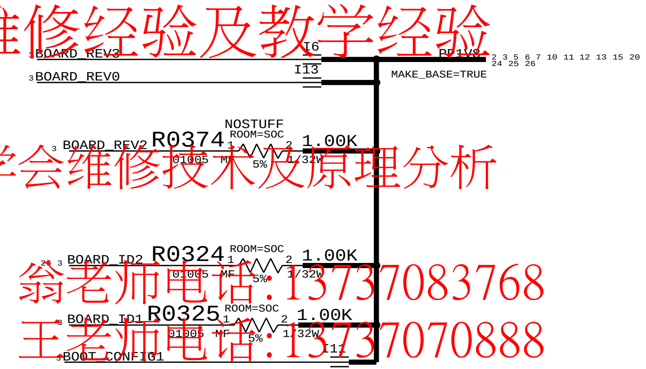
BRANCH

N61 SPECIFIC

BOOTSTRAPPING (BOARD_REV, BOARD_ID, BOOT_CFG)

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

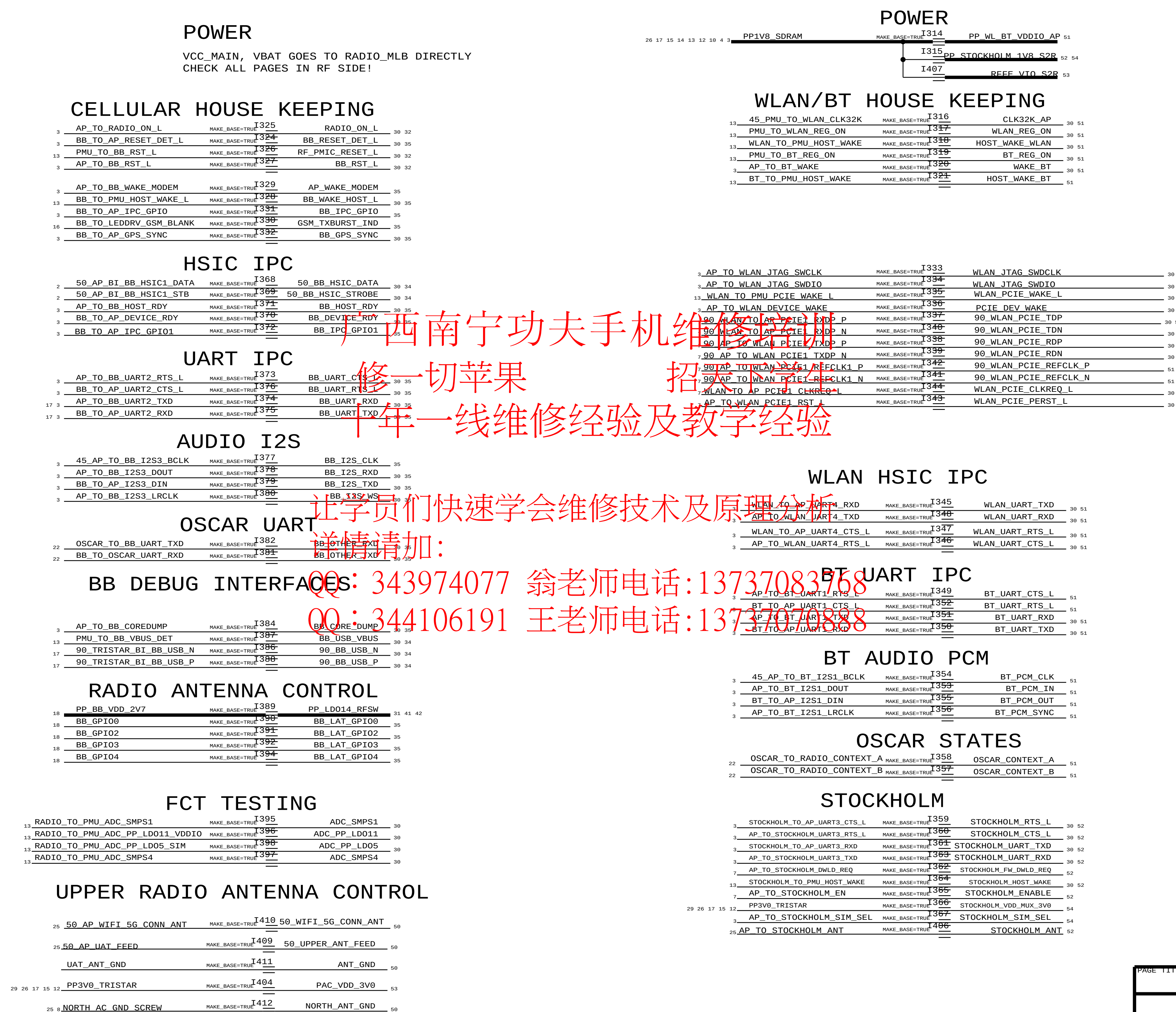
000	SPI0
001	SPI0 TEST MODE
010	NAND <--- SELECTED
011	NAND TEST MODE
100	NVME
101	NVME TEST MODE
111	FAST SPI

PAGE TITLE: SYSTEM:N61 SPECIFIC

Apple Inc.

DRAWING NUMBER: 051-9903 SIZE: D
REVISION: 7.0.0
BRANCH:

RADIO_MLB HIERARCHICAL SYMBOL



PAGE TITLE: CELL:ALIASES

Apple Inc.

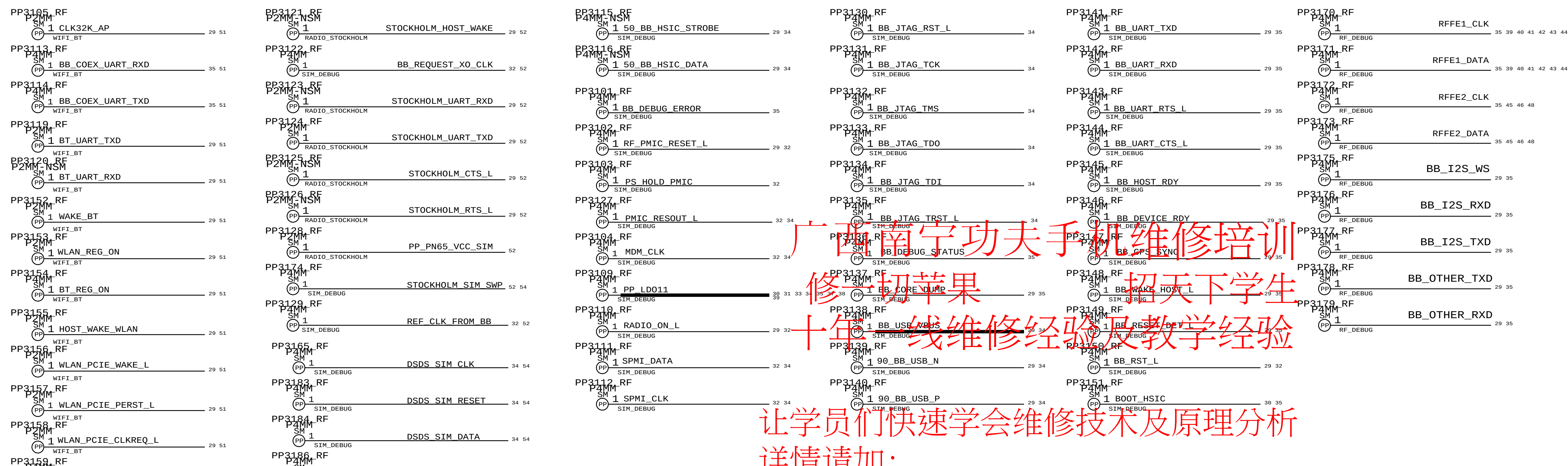
DRAWING NUMBER: 051-9903 SIZE: D

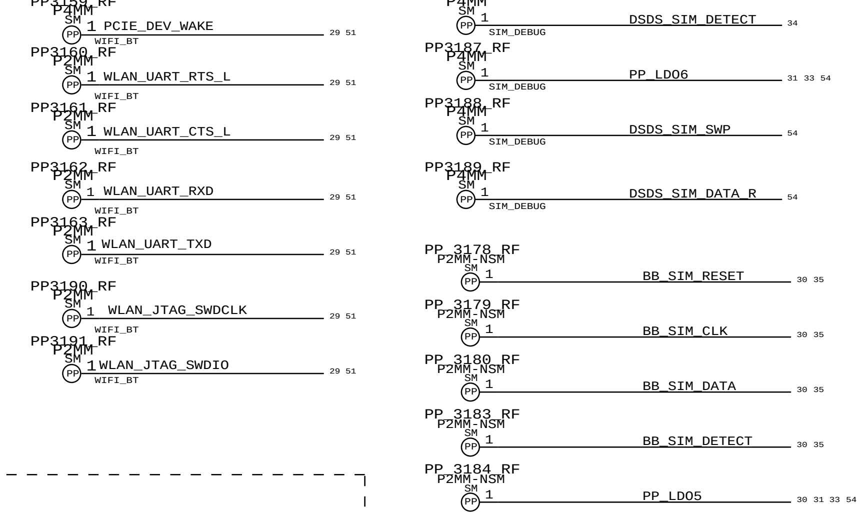
REVISION: 7.0.0

BRANCH

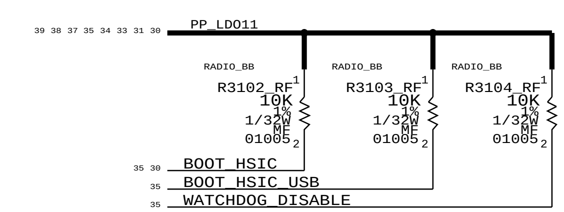
AP INTERFACE & DEBUG CONNECTORS

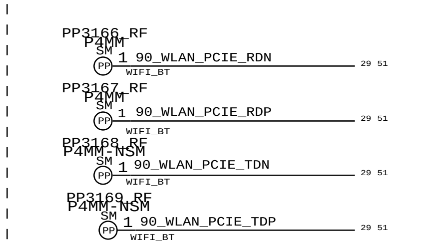
PROBE POINTS





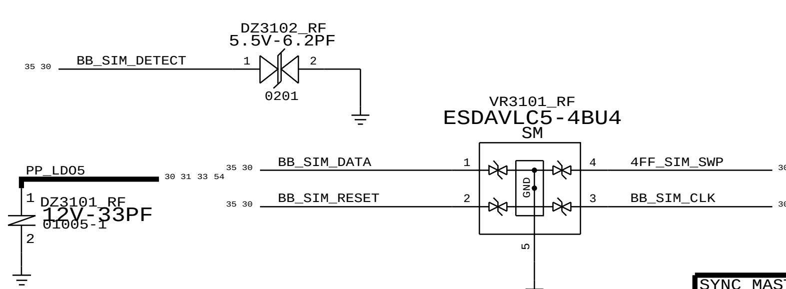
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0565	197S0593	ALTERNATE	Y3301_RF	KDS 19.2MHZ XTAL
197S0598	197S0593	ALTERNATE	Y3301_RF	AVX 19.2MHZ XTAL
138S00005	138S00003	ALTERNATE	C3216_RF	15UF CAPACITOR
138S0739	138S0706	ALTERNATE	C4207_RF	1.0UF CAPACITOR
138S0945	138S0706	ALTERNATE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



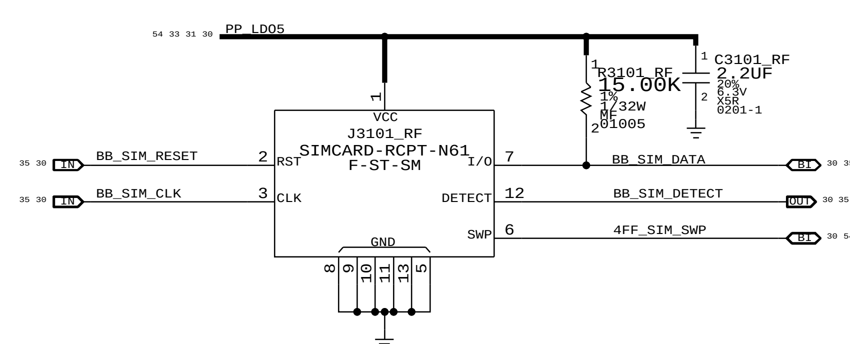


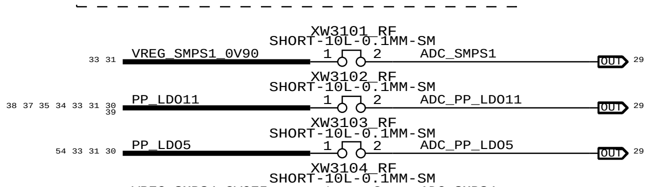
DIFF-PAIR PROBE POINTS LOCATED OPPOSITE DC-BLOCKS

SIM CARD ESD PROTECTION



SIM CARD CONNECTOR





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PAGE TITLE: AP INTERFACE & DEBUG CONNECTORS

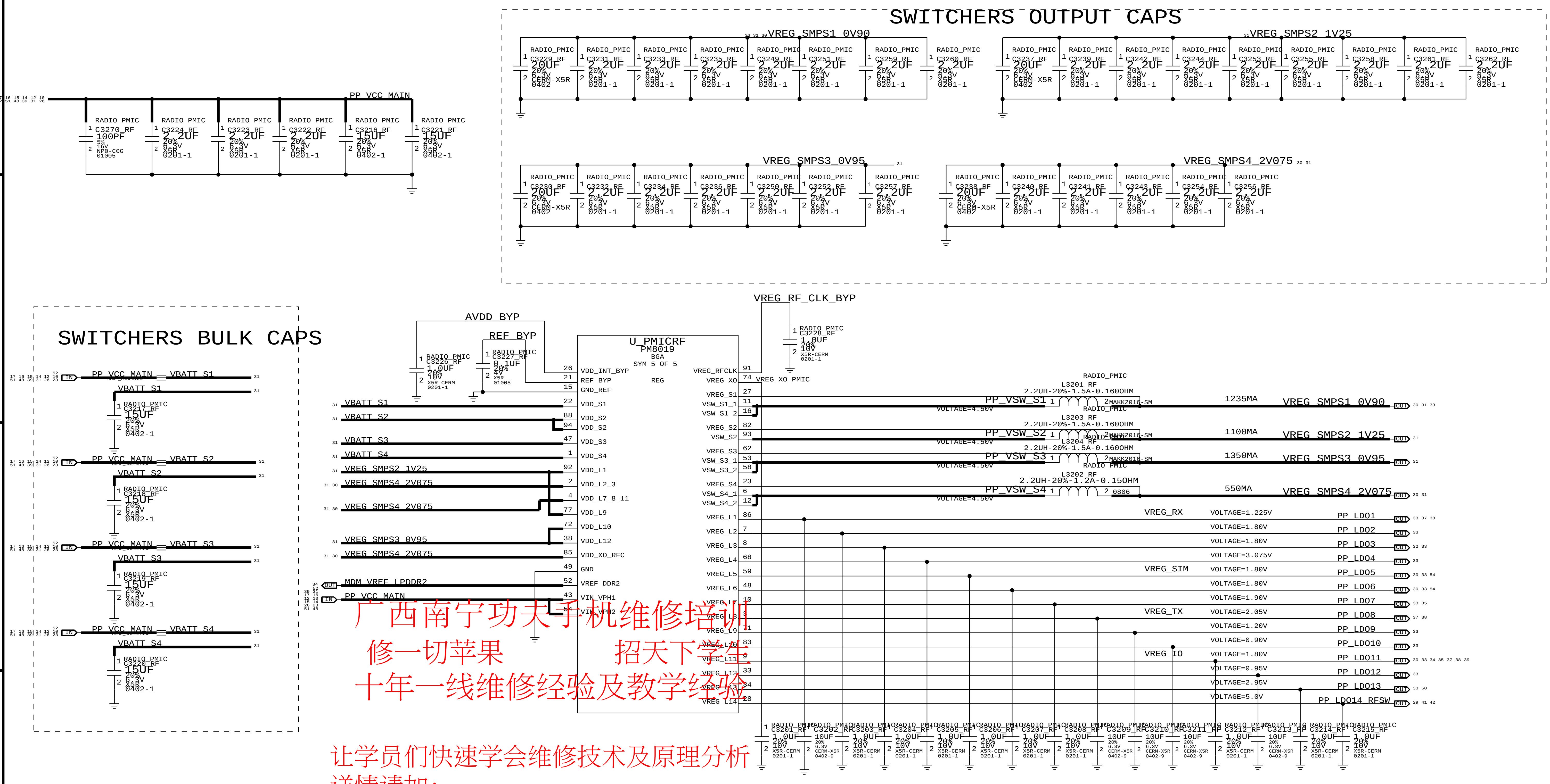
Apple Inc.

DRAWING NUMBER: 051-9903 SIZE: D

REVISION: 7.0.0

BRANCH

BASEBAND PMU (1 OF 2)



BASEBAND PMU (1 OF 2)

Apple Inc.

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BASEBAND PMU (2 OF 2)

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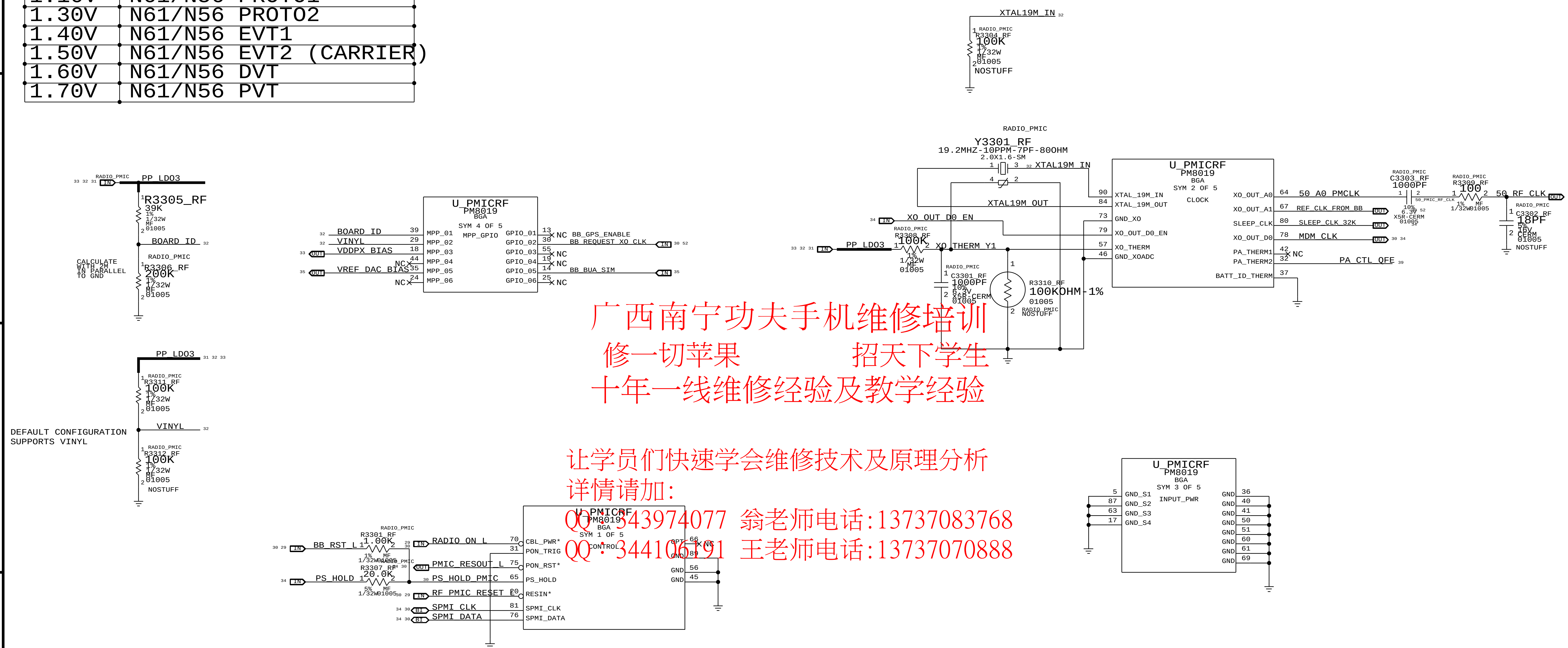
C401
R411
L400
U404

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



BASEBAND PMU (2 OF 2)

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BASEBAND (1 OF 3)

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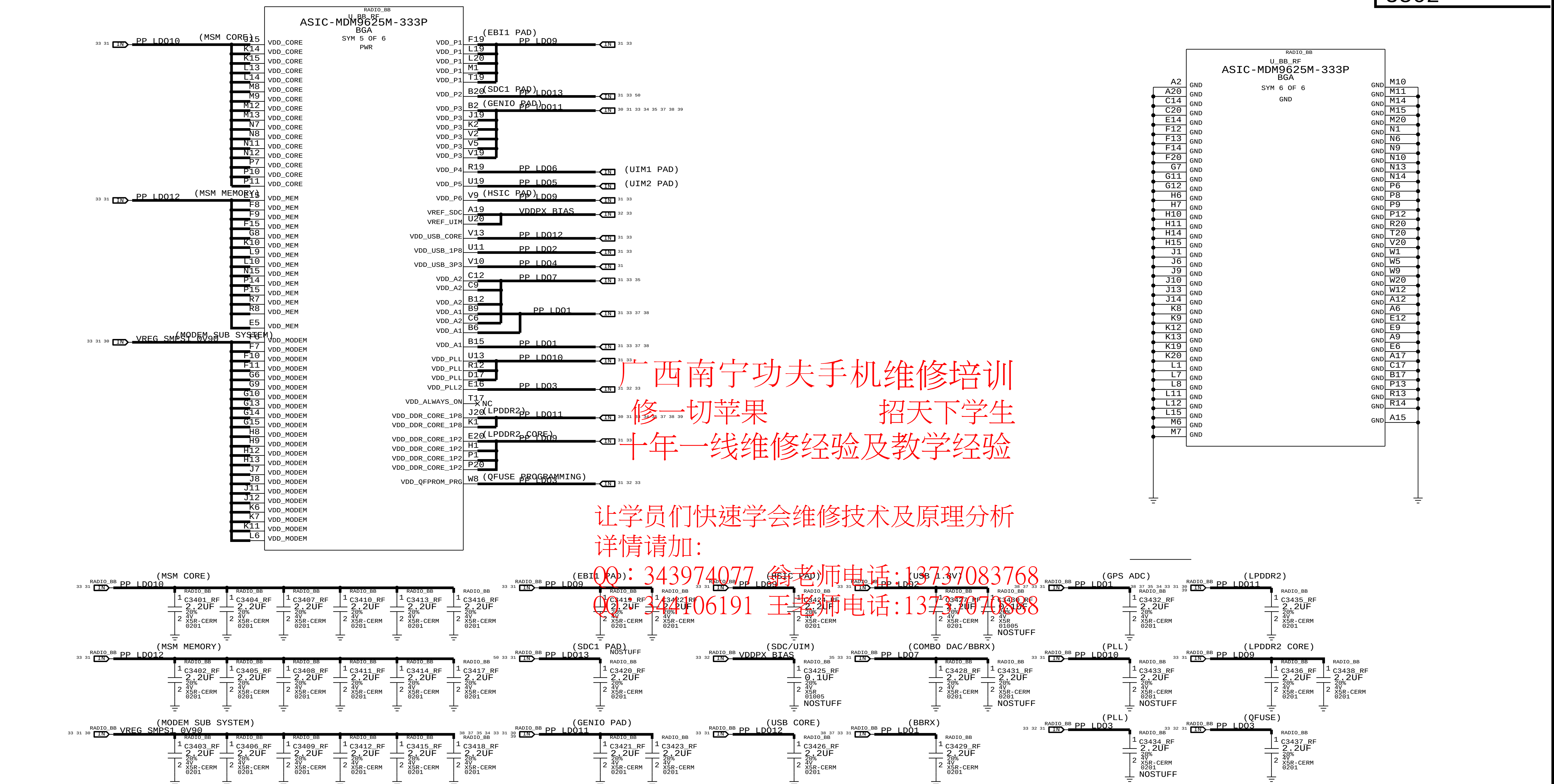
C538
R500
L500
U502



PAGE TITLE: BASEBAND (1 OF 2)

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DRAWING NUMBER: 051-9903 SIZE: D

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BRANCH

BASEBAND (2 OF 3)

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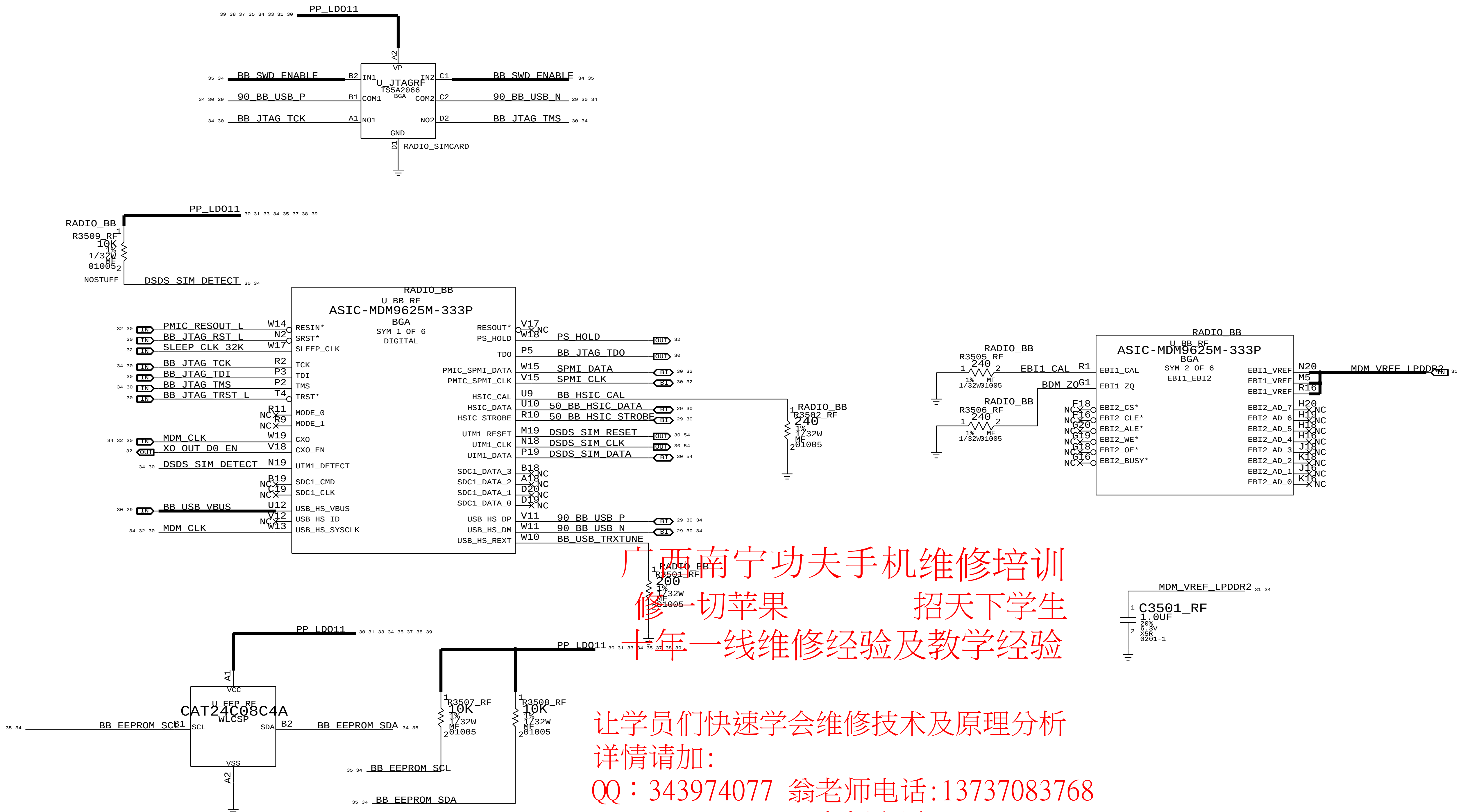
C600
R606
L600
U602



PAGE TITLE BASEBAND (1 OF 2)

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BASEBAND (3 OF 3)

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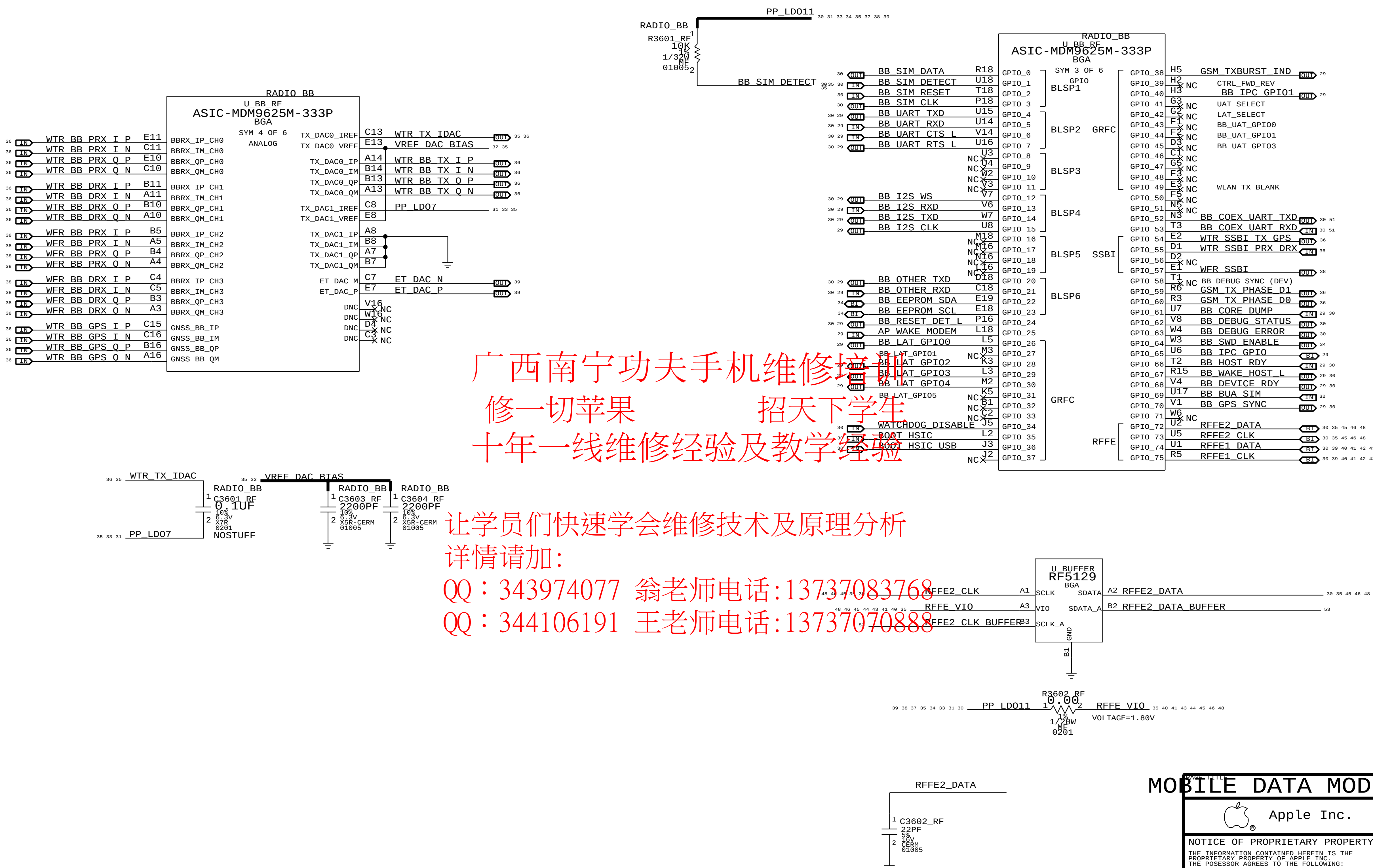
C704
R700
L700
U702



MOBILE DATA MODEM (2 OF 2)

Apple Inc.

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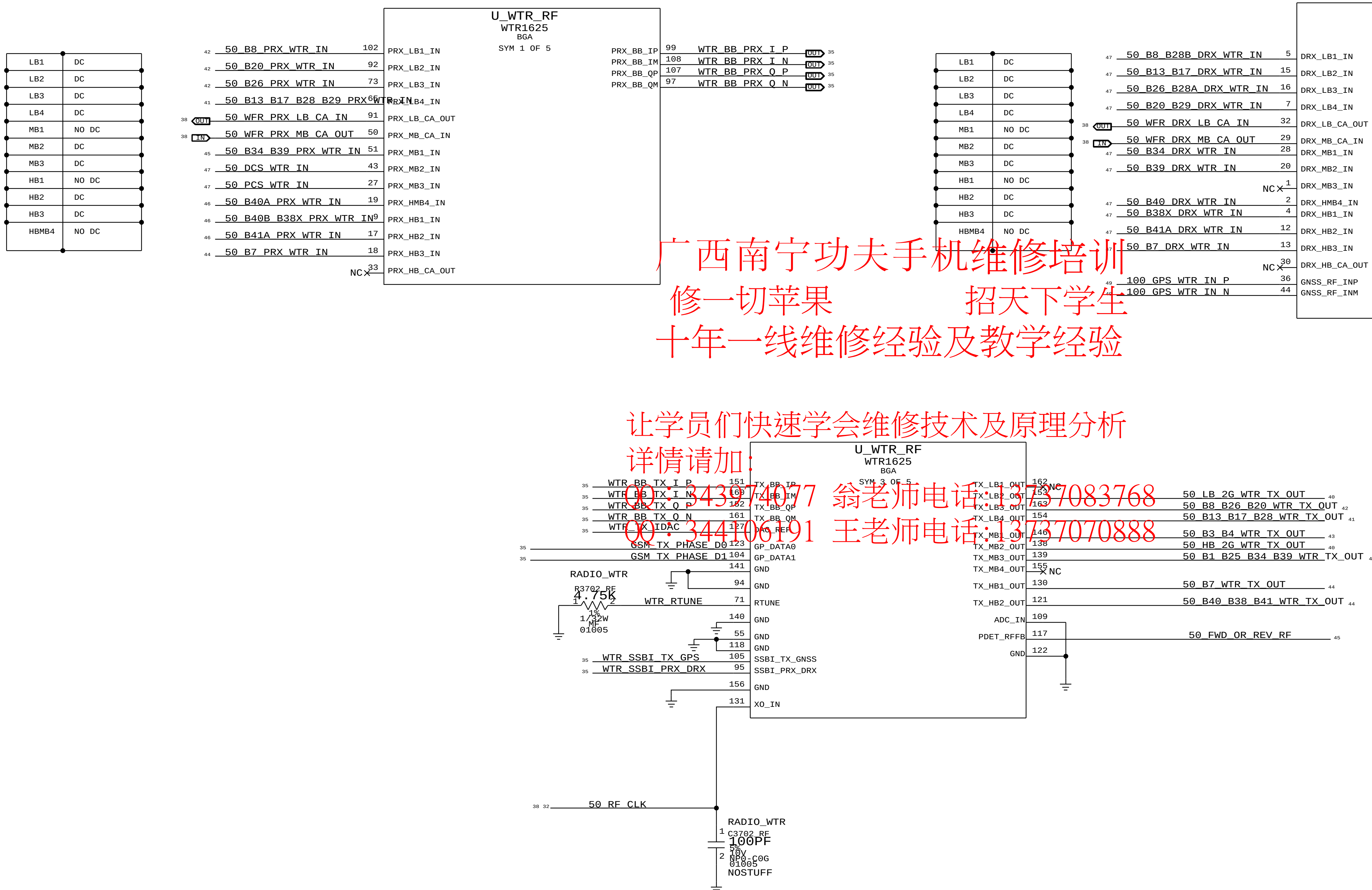
BRANCH

WTR TRANSCEIVER (1 OF 2)

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)

Apple Inc.

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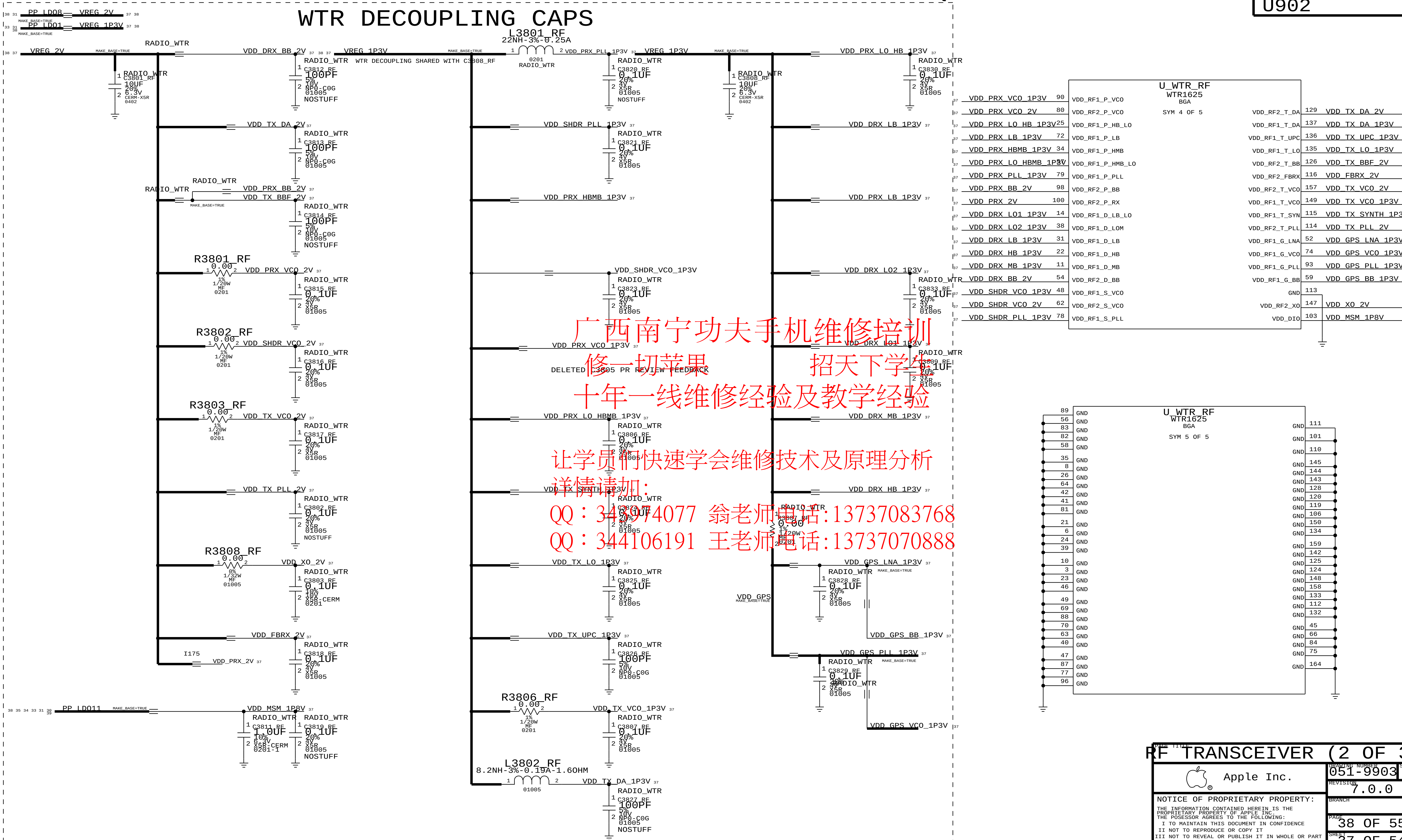
WTR TRANSCEIVER (2 OF 2)

C934
R926
L3802_RF
U902

WTR DECOUPLING CAPS



RF TRANSCEIVER (2 OF 3)

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WFR TRANSCEIVER

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C1019
R1016
L1000
U1002

PAGE TITLE
RF TRANSCEIVER (3 OF 3)

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QFE DCDC

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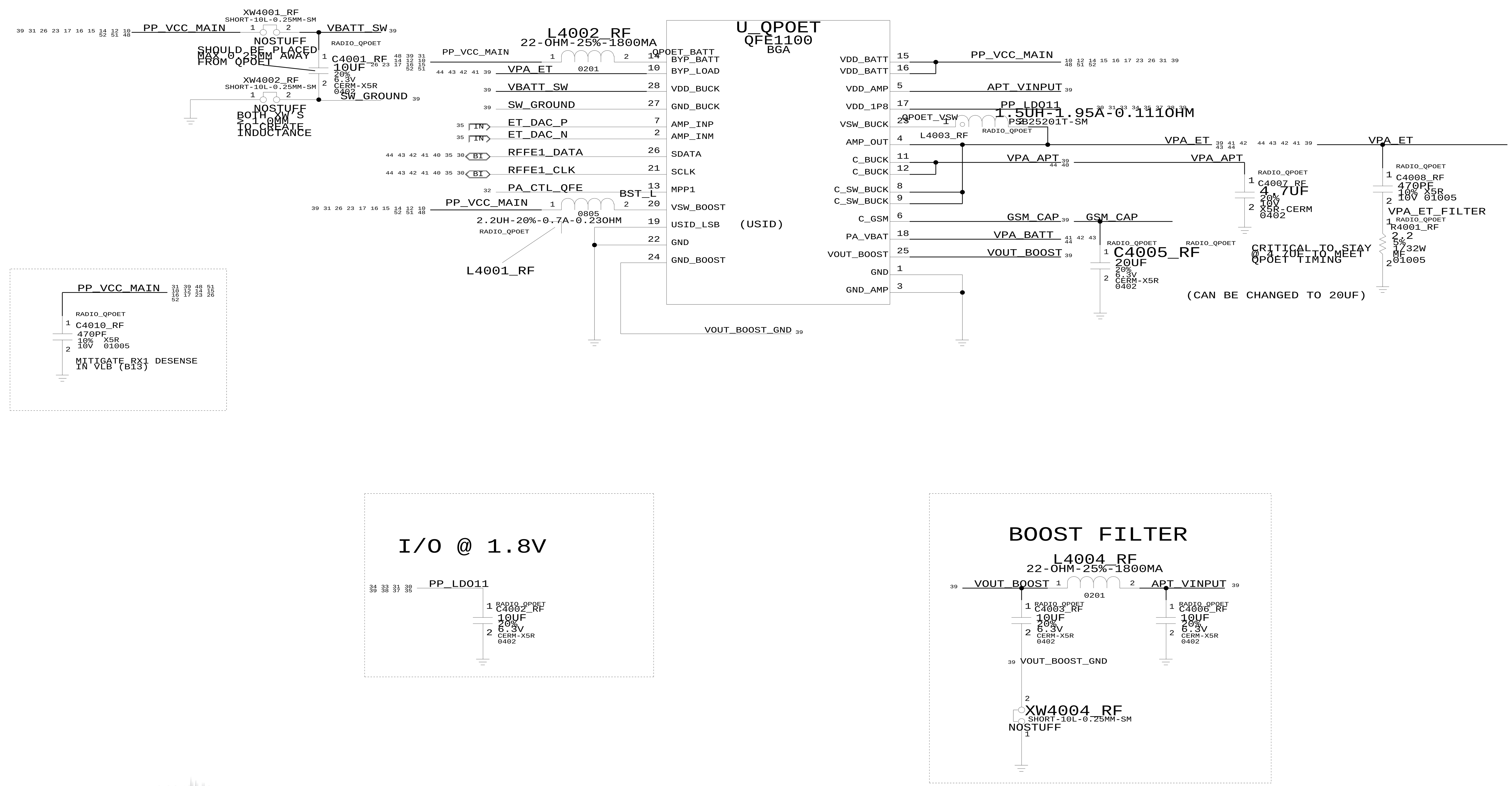
C1110
R1102
L1104
U1101



PAGE TITLE QFE DCDC

Apple Inc.

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2G PA

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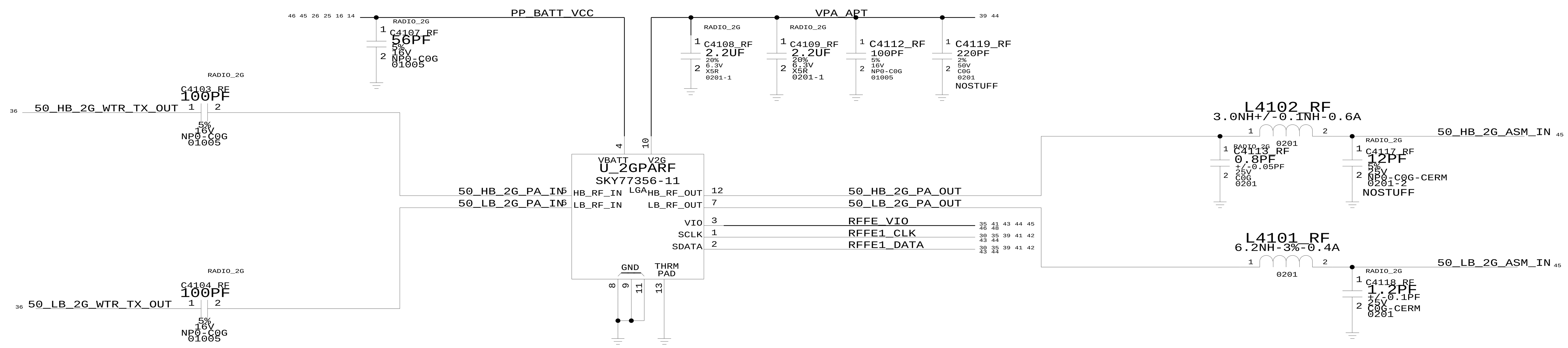
C1208
R1200
L1204
U1201



PAGE TITLE: 2G PA

Apple Inc.

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BRANCH

VERY LOW BAND PAD (B13, B17, B28)

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C1332
R1300
L4215_RF
U1304

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

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修一切苹果　招天下学生
十年一线维修经验及教学经验

PAGE TITLE: VERY LOW BAND PAD

Apple Inc.

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BRANCH

LOW BAND PAD (B8, B26, B20)

C4318_RF
R1400
L4322_RF
U1402

V2	V1	BAND
0	1	B8
1	0	B20
1	1	B26

PAGE TITLE: LOW BAND PAD

Apple Inc.

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REVISION: 7.0.0

BRANCH

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

C4426_RF
R1500
L4409_RF
U1501

PAGE TITLE
MID BAND PAD

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

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C4533_RF
R1600
L1616
U1601

PAGE TITLE
HIGH BAND PAD

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ANTENNA SWITCH

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C1702
R1700
L4608_RF
U1702

PAGE TITLE	ANTENNA SWITCH	
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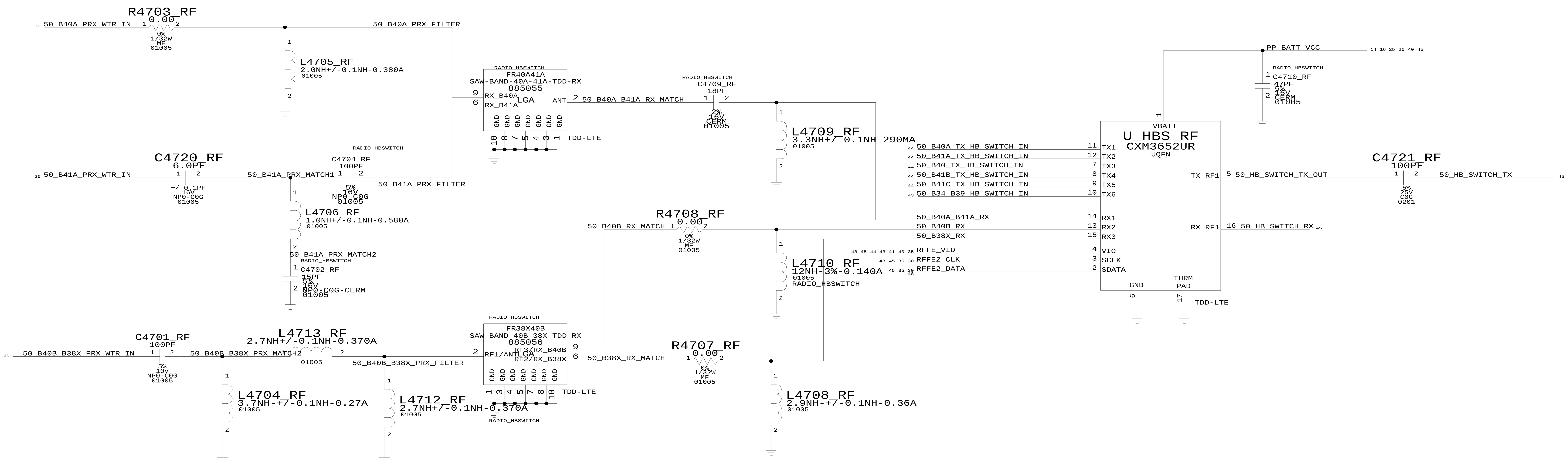
HIGH BAND SWITCH



PAGE TITLE	HIGH BAND SWITCH
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RX DIVERSITY (1)

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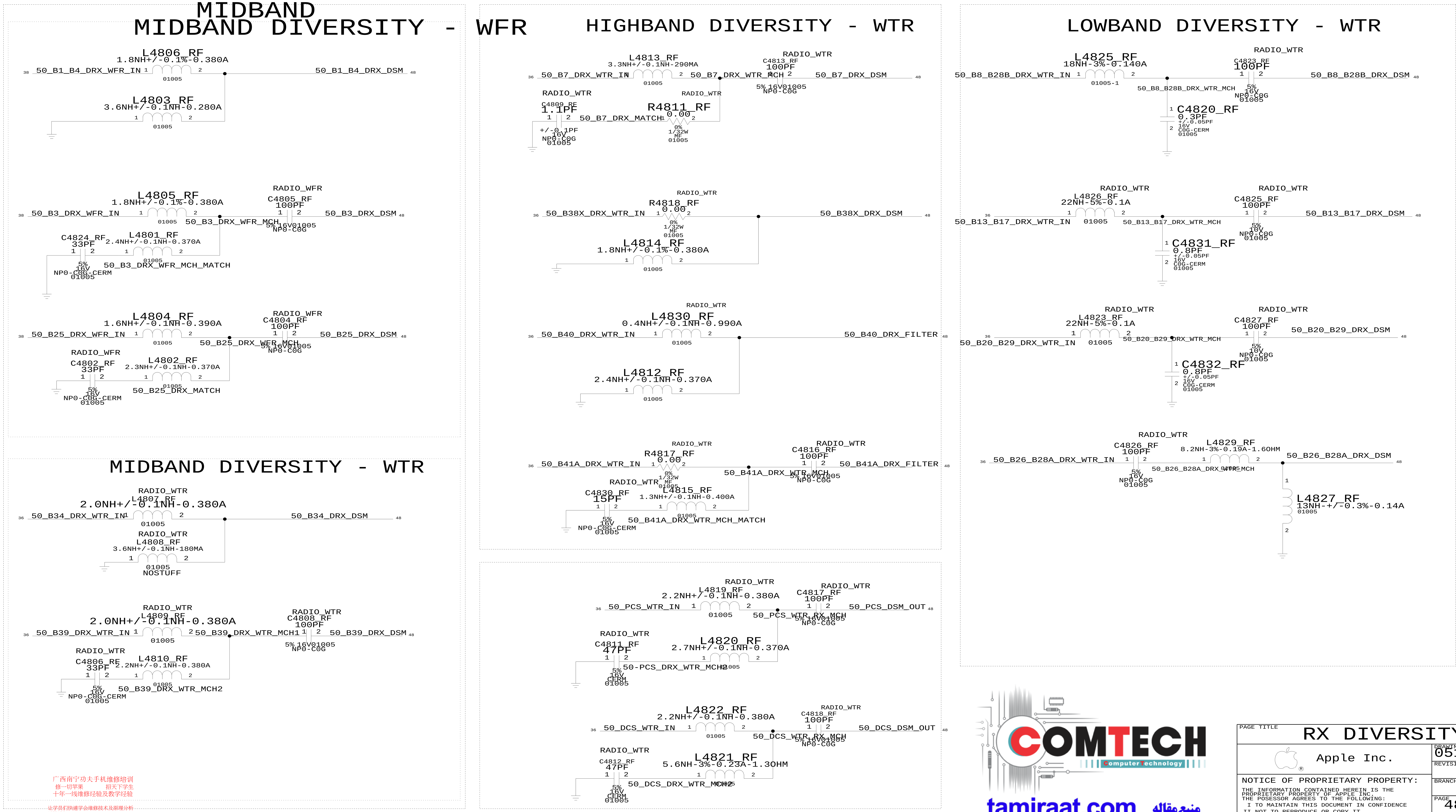
C4826_RF
R1800
L1829
U1801



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RX DIVERSITY (2)

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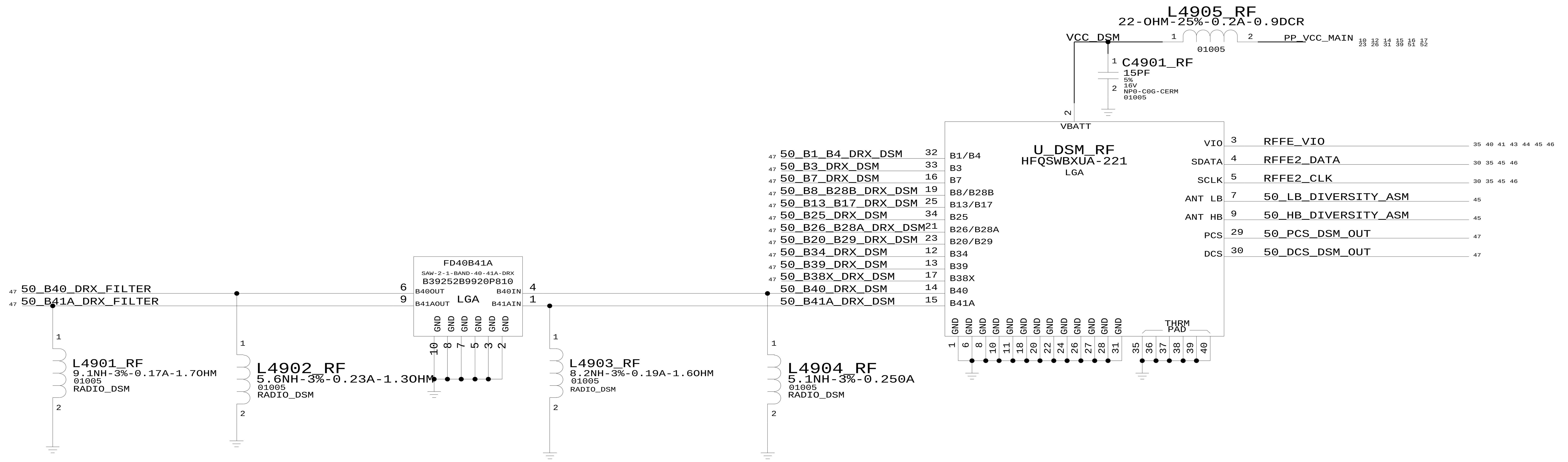
C1900
R1900
L1900
U1901



PAGE TITLE
GPS

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GPS

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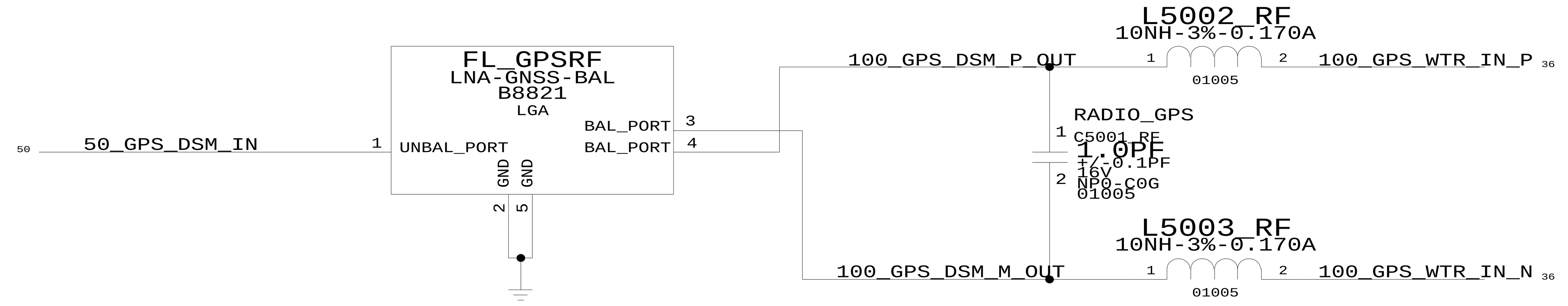
C1900
R1900
L1900
U1901



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ANTENNA FEED'S

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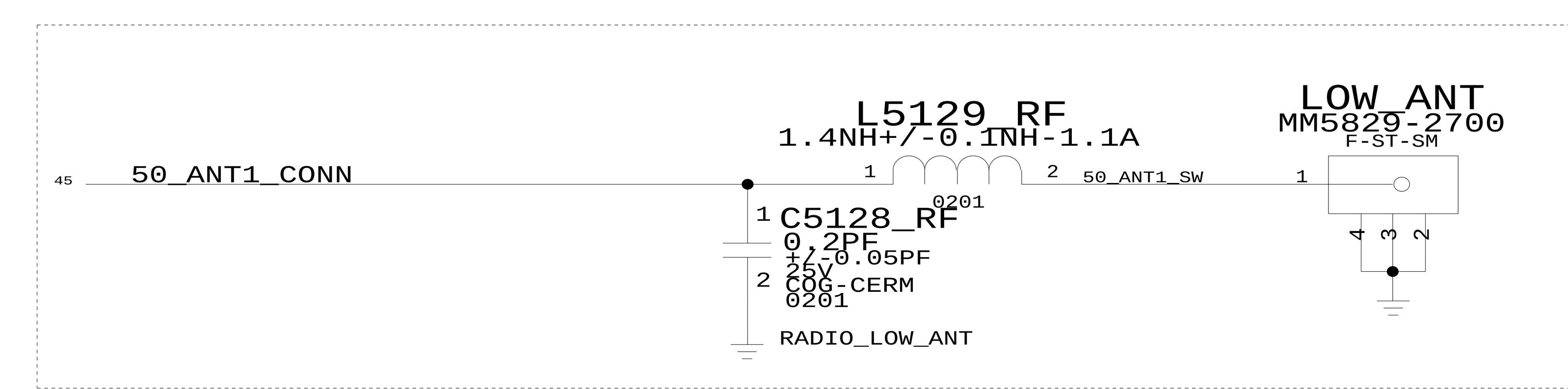
TEST & COAX CONNECTOR FOR LOWER SECTION OF MLB



PAGE TITLE: ANTENNA FEEDS

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BRANCH

WLAN/BT

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

MODULE BOOT-STRAPPED TO PCIE INTERNALLY

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SYNC_MASTER=N/A SYNC_DATE=N/A

PAGE TITLE
WIFI/BT: MODULE AND FRONT END

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STOCKHOLM

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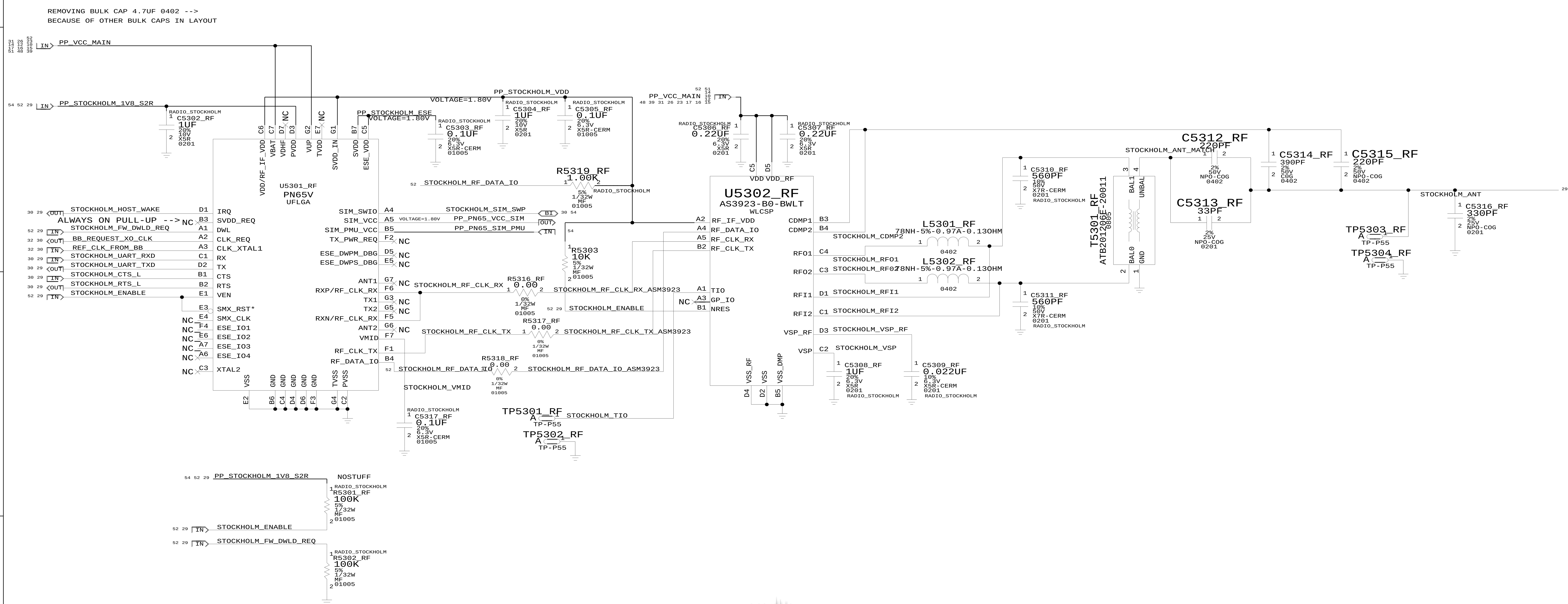
C2101
R2100
L2102
U2100



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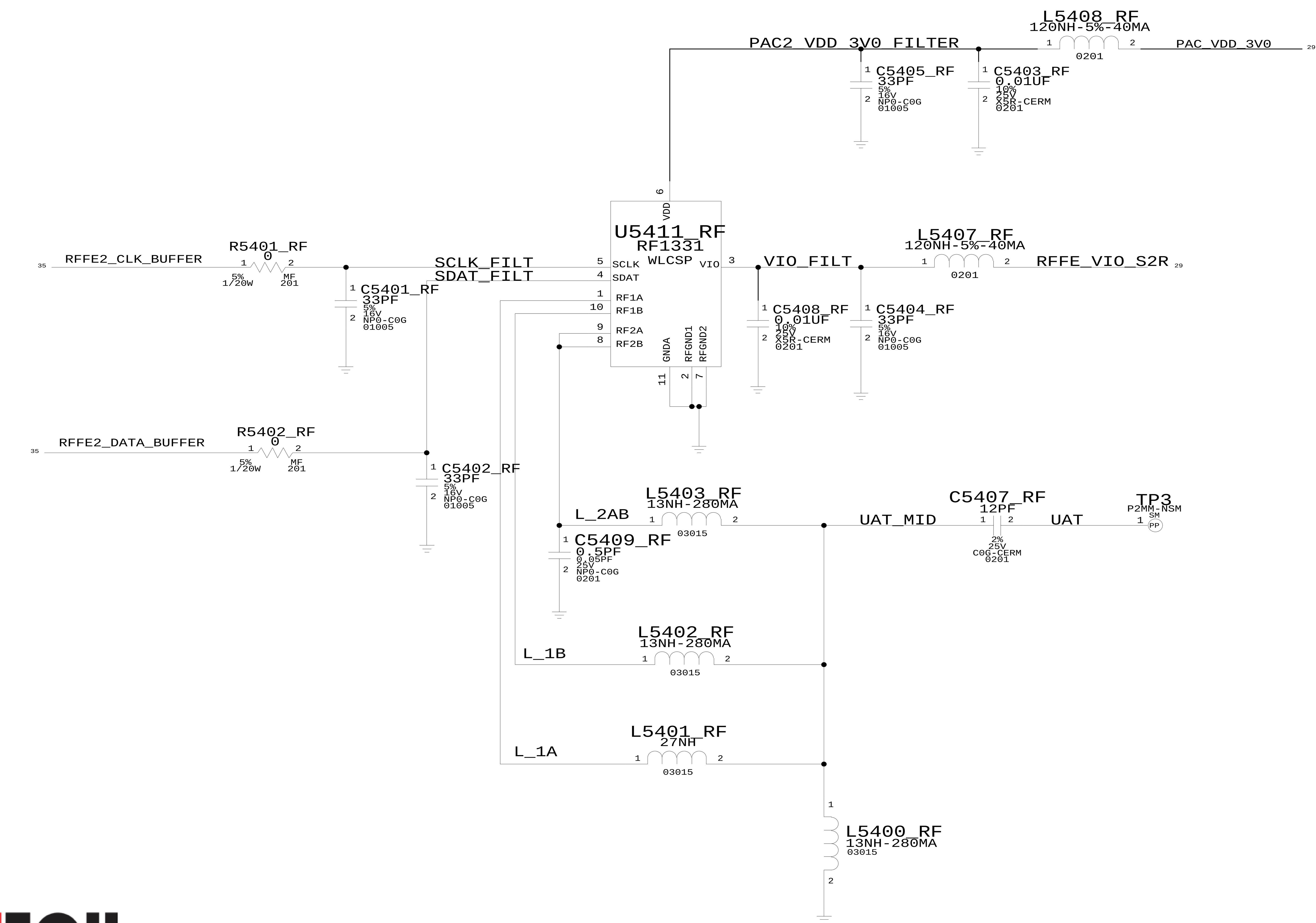
ON-BOARD JUMPER FLEX

UAT JUMPER



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DSDS

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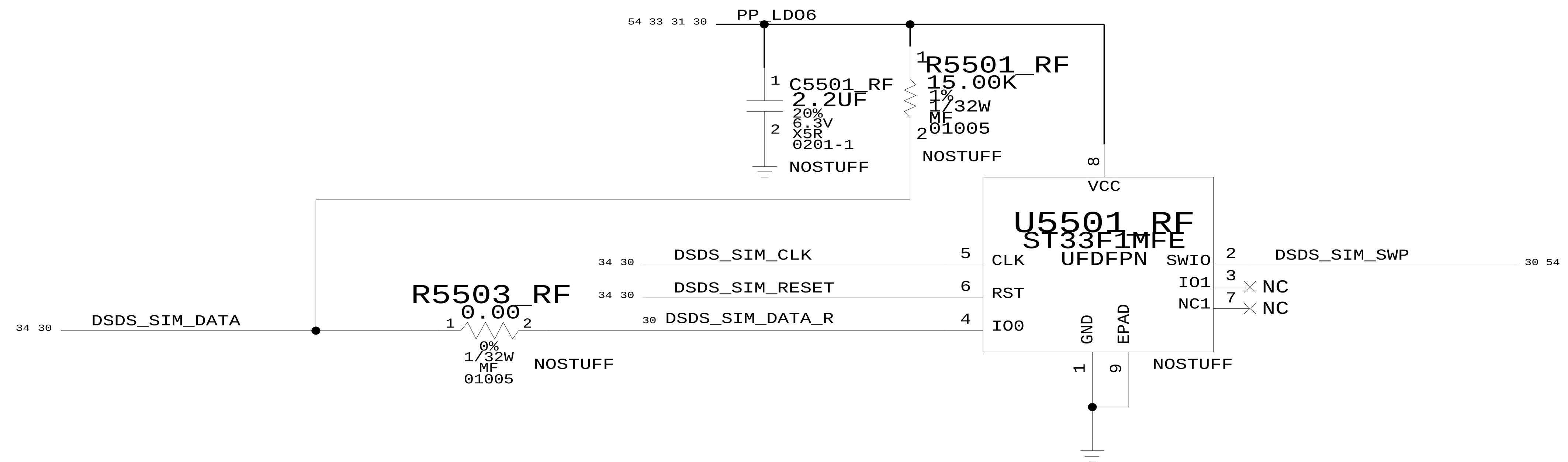

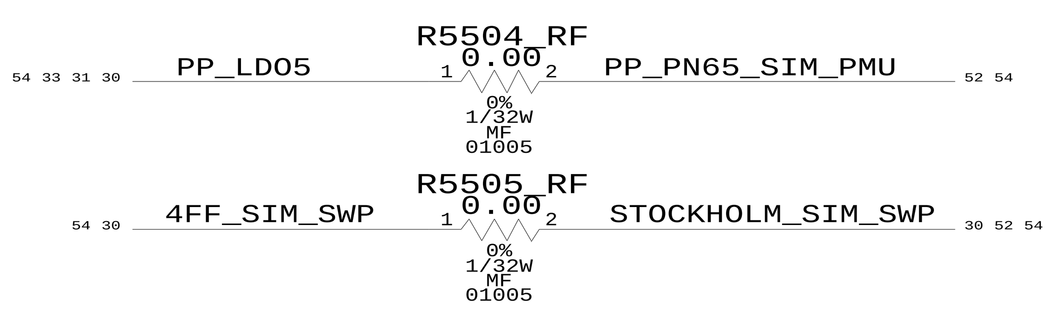

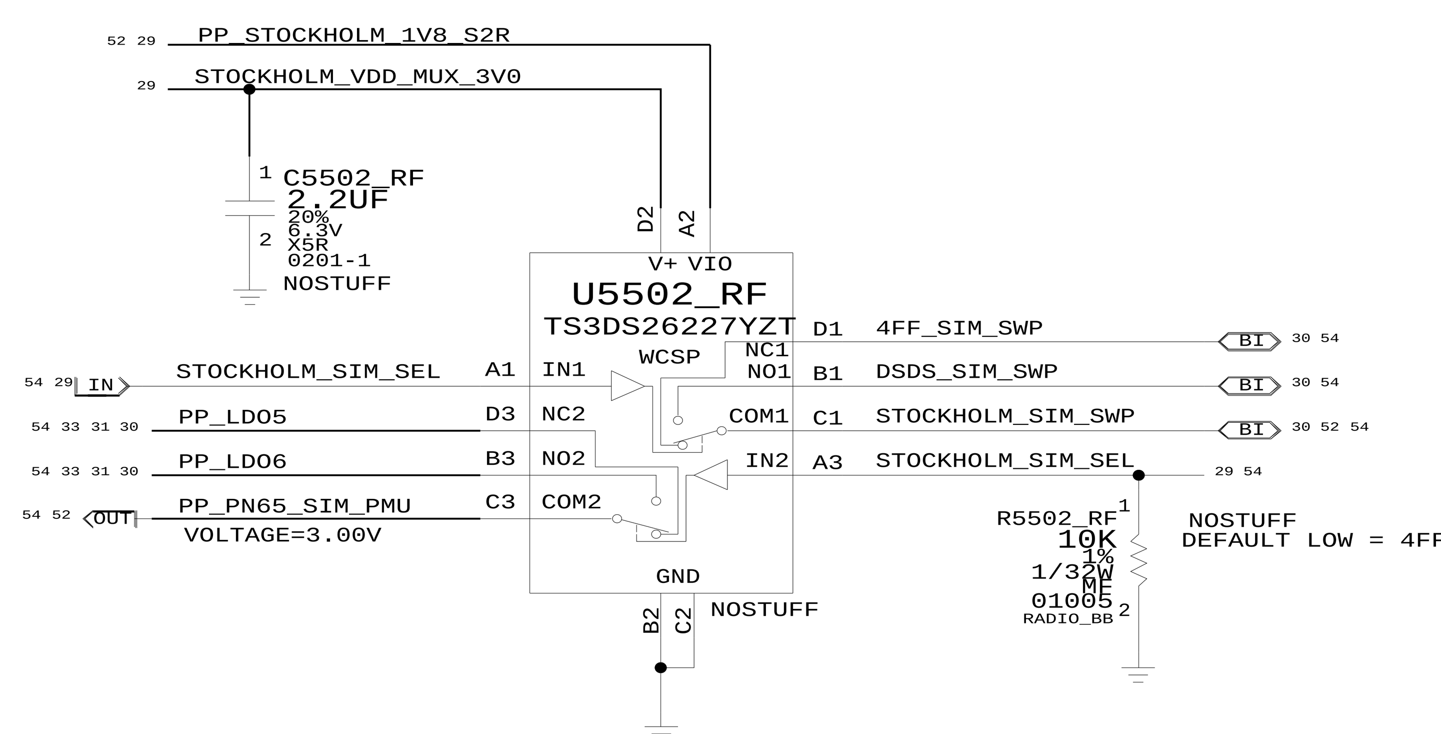

PAGE TITLE
JUMPER

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