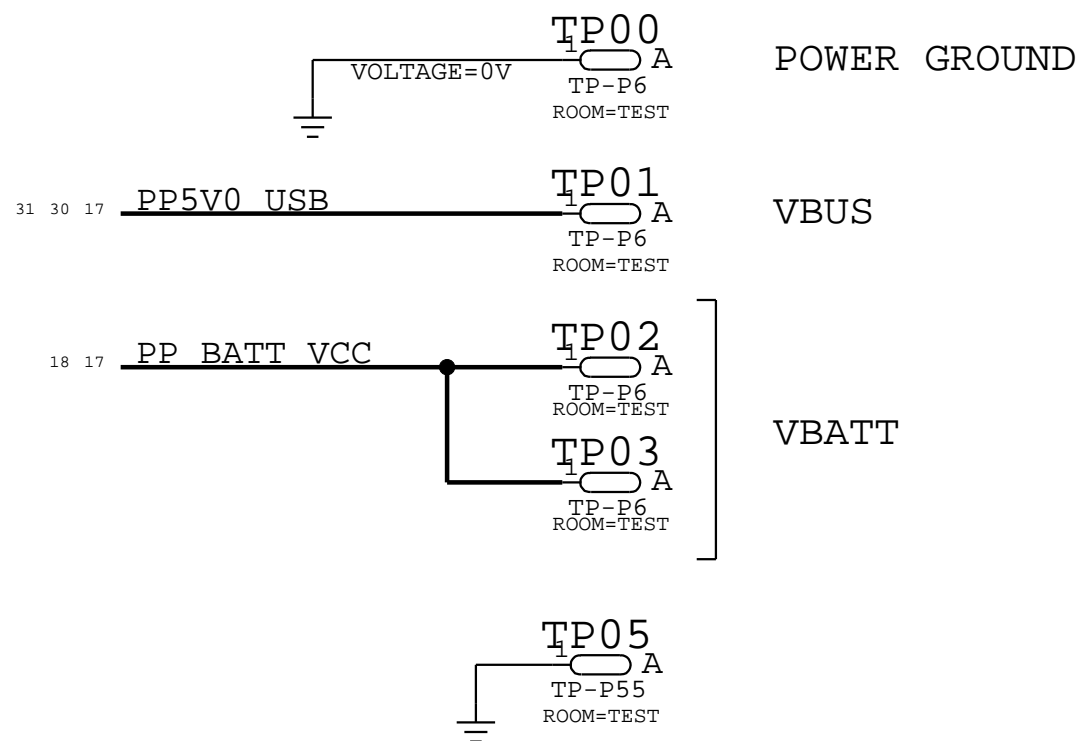


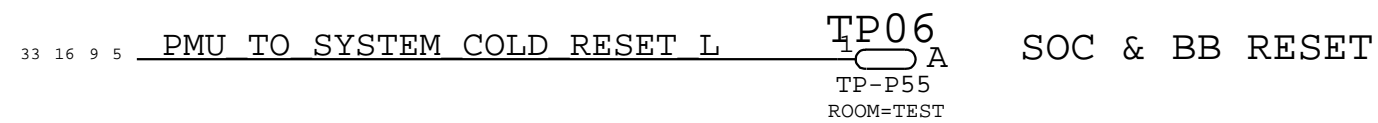
8		7		6		5		4		3		2		1	
1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.												REV	ECN	DESCRIPTION OF REVISION	CK APPD DATE
												A	0004536627	PRODUCTION RELEASED	2015-07-21
N71 MLB - PVT OK2FAB															
LAST_MODIFICATION= Tue Jul 21 11:39:02 2015															

TESTPOINTS

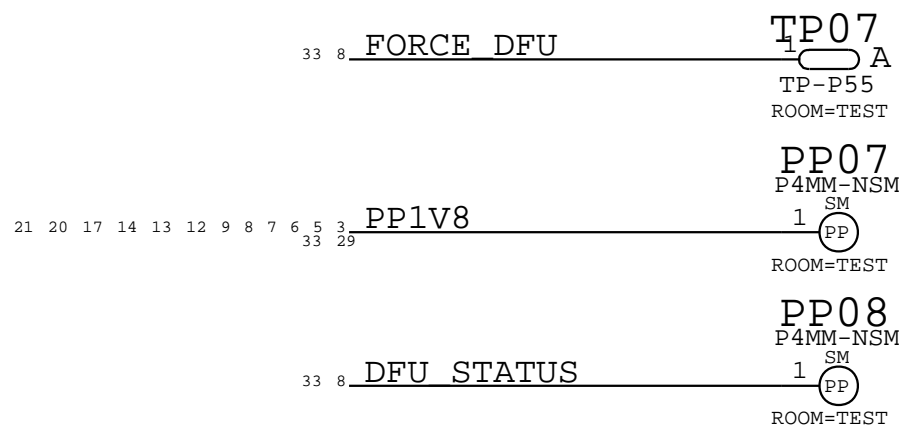
POWER



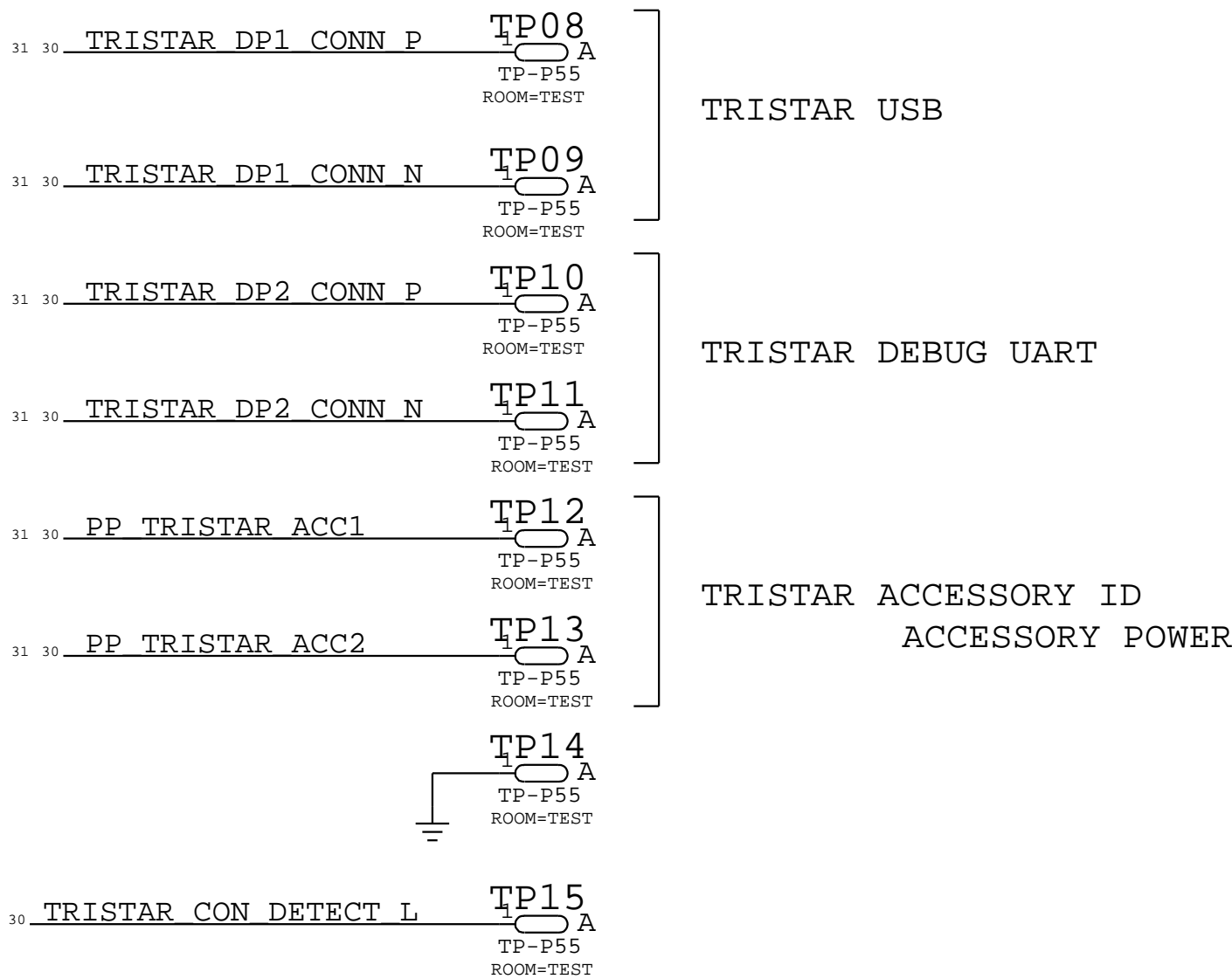
RESET



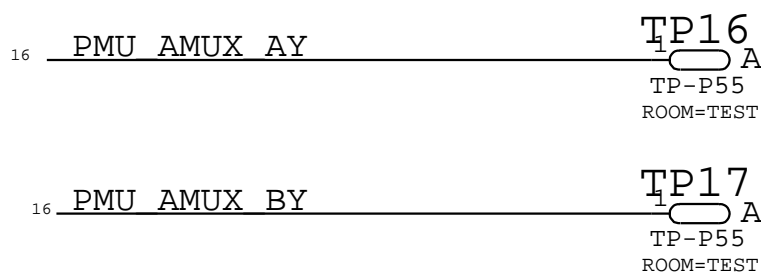
DFU



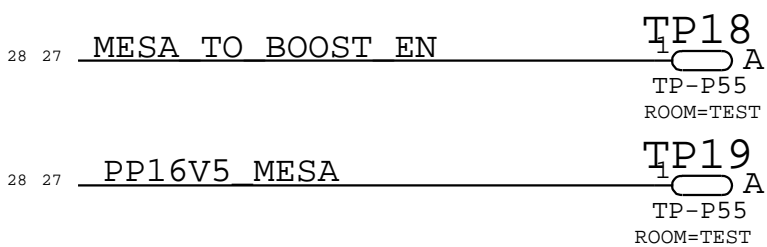
E75



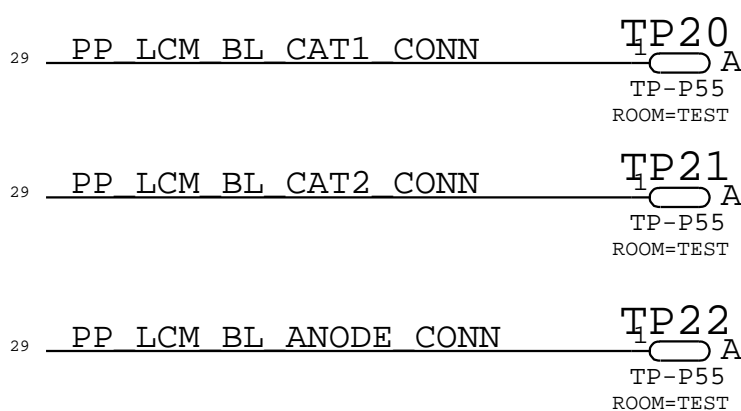
AMUX



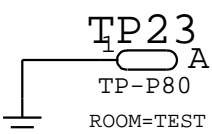
MOJAVE



LCM



SUPER SCREW



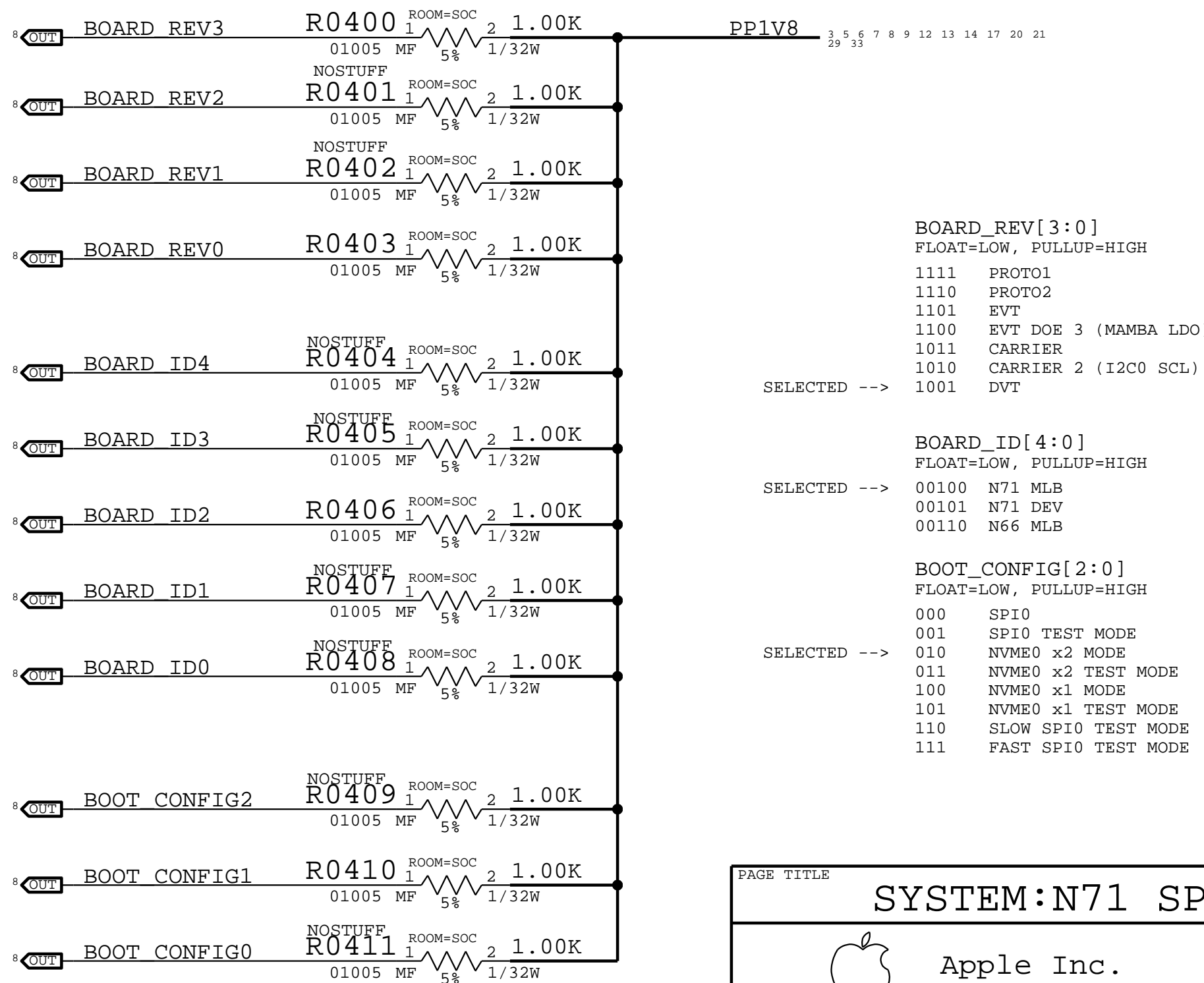
N71 I2C DEVICE MAP

I2C BUS	DEVICE	BINARY	7-BIT HEX	8-BIT HEX
I2C0	ANTIGUA PMU	1110100X	0X74	0XE8
	CHESTNUT	0100111X	0X27	0X4E
	MUON	1100010X	0X62	0XC4
I2C1	TIGRIS	1110101X	0X75	0XEA
	ARC DRIVER	1000001X	0X41	0X82
	SPEAKER AMP	1000000X	0X40	0X80
	TRISTAR	0011010X	0X1A	0X34
I2C2	ALS	0101001X	0X29	0X52
	DISP EEPROM	1010001X	0X51	0XA2
OWL	UNUSED	N/A	N/A	N/A
ISP I2C0	REAR CAM	TBD	TBD	TBD
	LED DRIVER	1100011X	0X63	0XC6
ISP I2C1	FRONT CAM	0010000X	0X10	0X20
TOUCH I2C	MESON	1000000X	0x40	0x80
	MAMBA	1100000X	0x60	0xC0
	DOPPLER	1011000X	0x58	0xB0
SEP I2C	SEP EEPROM	1010001X	0x51	0xA2


BOOTSTRAPPING:BOARD REV

BOARD ID

BOOT CONFIG



RESISTOR STUFF = HIGH '1'
RESISTOR NOSTUFF = LOW '0'

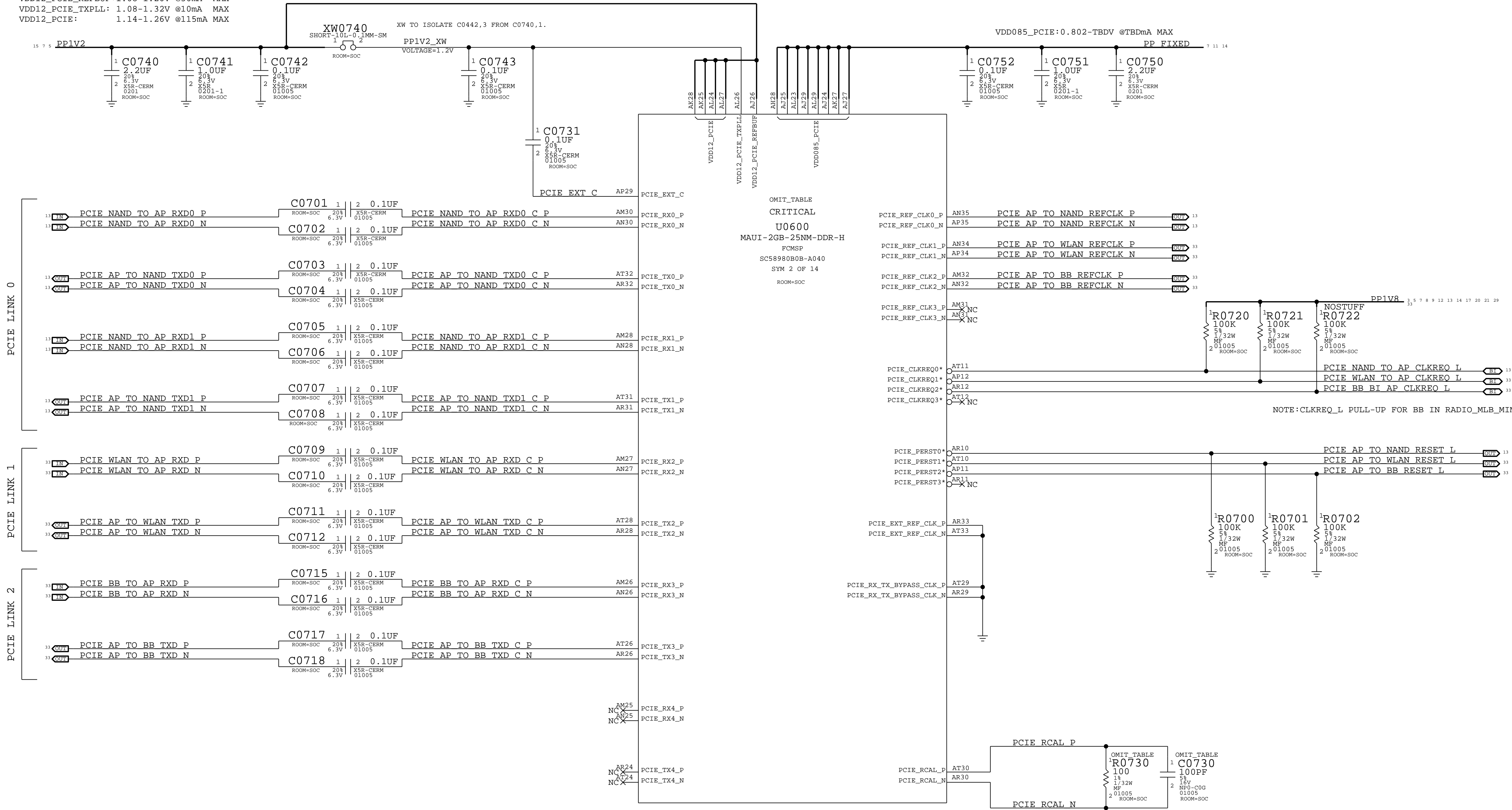
PAGE TITLE		
SYSTEM:N71 SPECIFIC		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	4 OF 49
	SHEET	3 OF 59

D

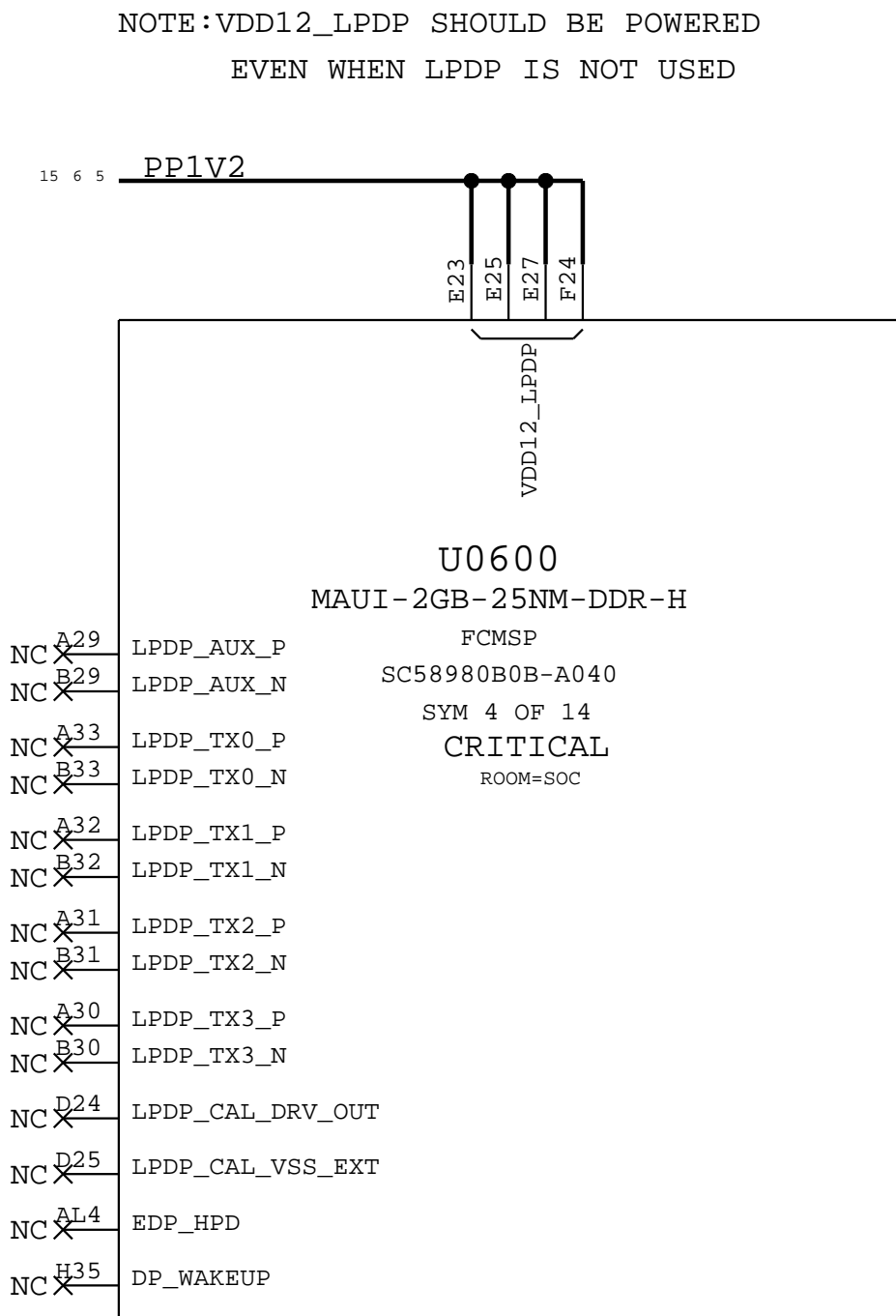
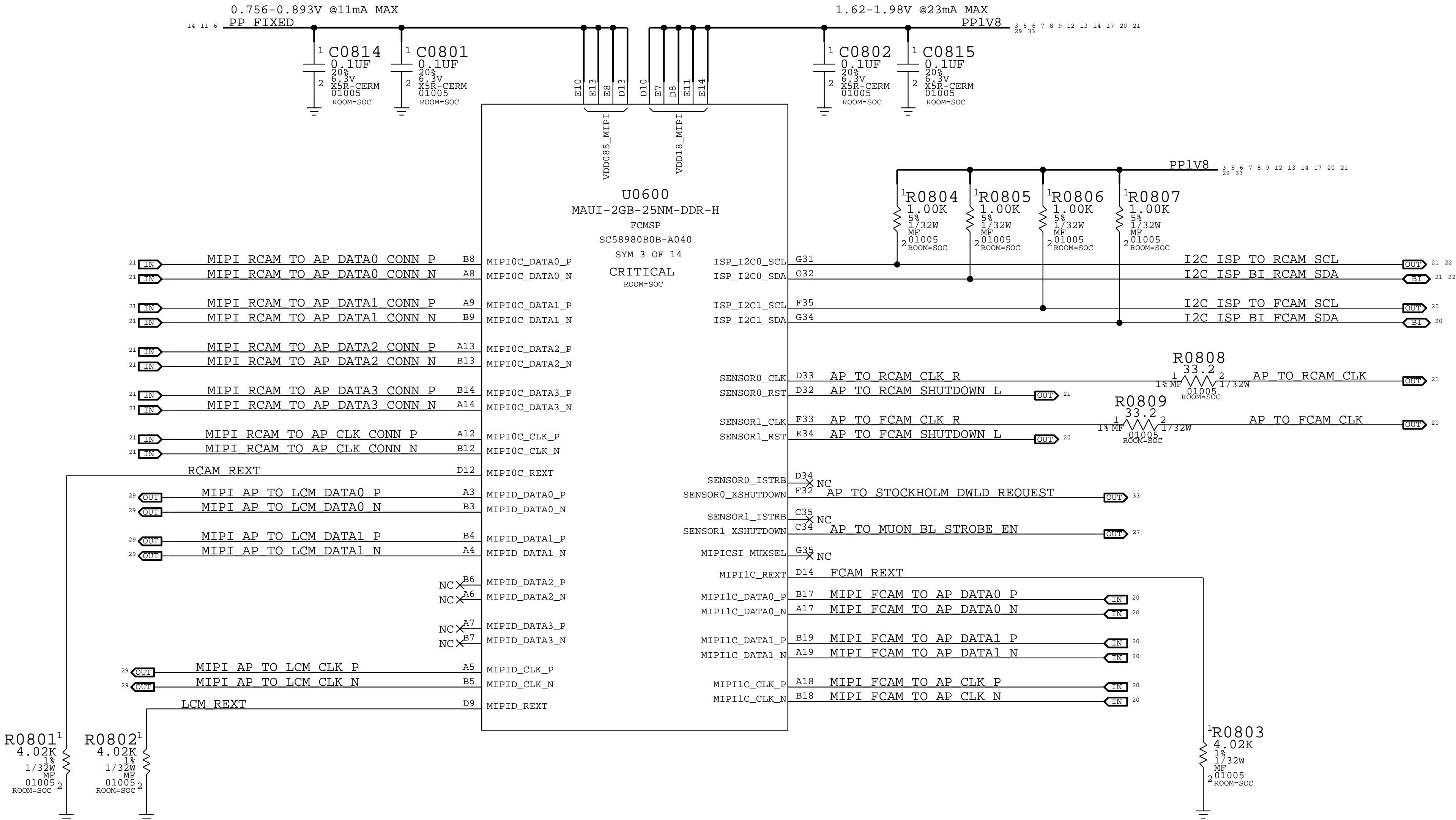


MAUI - PCIE INTERFACES

VDD12_PCIE_REFBUF:1.08-1.26V @50mA MAX
VDD12_PCIE_TXPLL: 1.08-1.32V @10mA MAX
VDD12_PCIE: 1.14-1.26V @115mA MAX



MAUI - CAMERA & DISPLAY INTERFACES



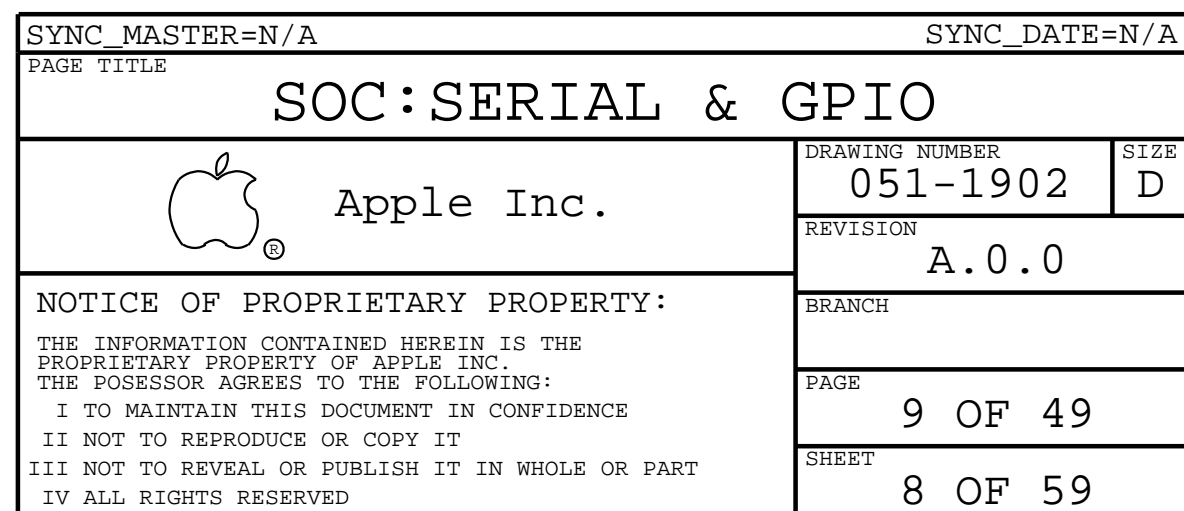
D



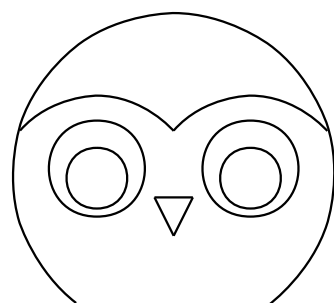
A



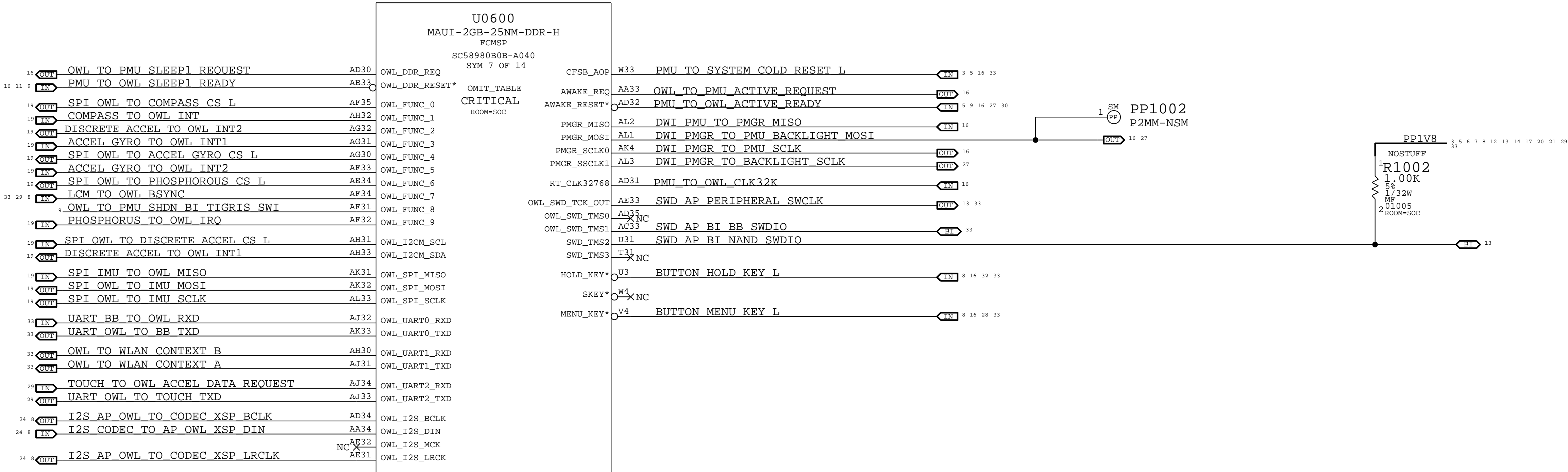
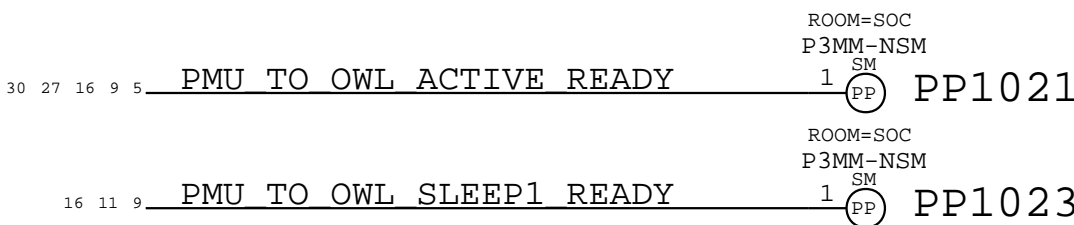
I2C PROBE POINTS



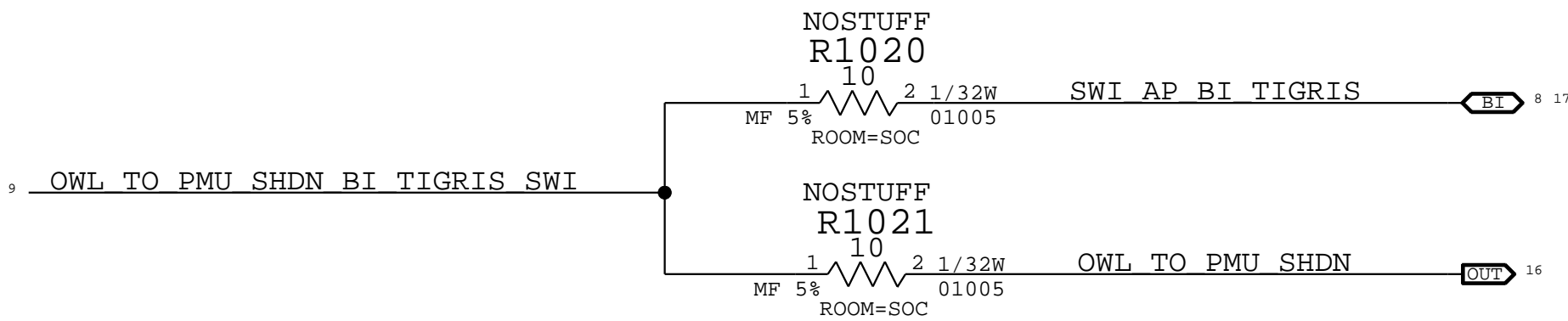
MAUI - OWL




POWER STATE CONTROL PROBE POINTS




OWL SYSTEM SHUTDOWN OPTION



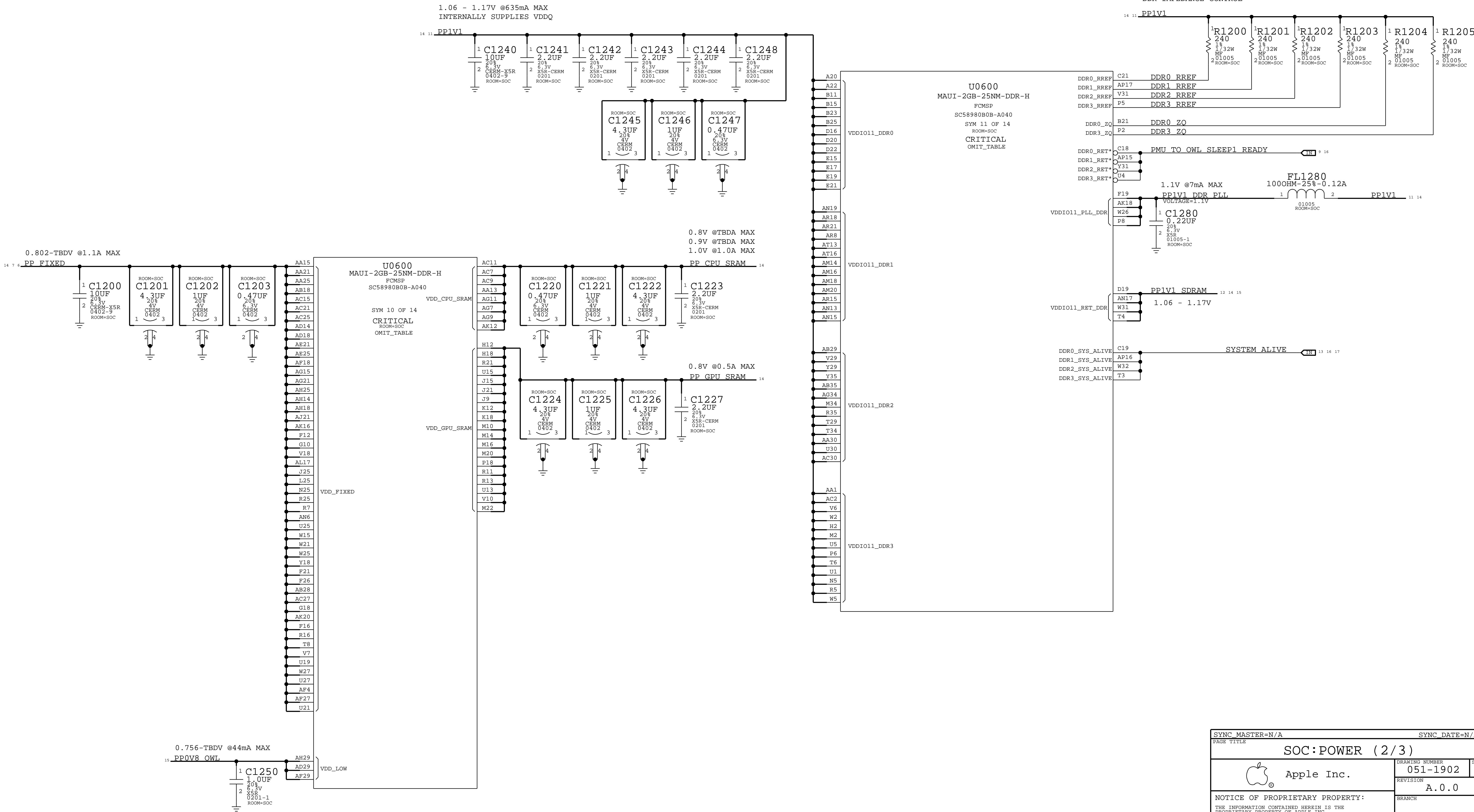
SYNC_MASTER=N/A		SYNC_DATE=N/A			
PAGE TITLE					
SOC:OWL					
 Apple Inc.		DRAWING NUMBER	051-1902	SIZE	D
		REVISION	A.0.0		
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN 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			
		SHEET			
		10 OF 49			
		9 OF 59			

D

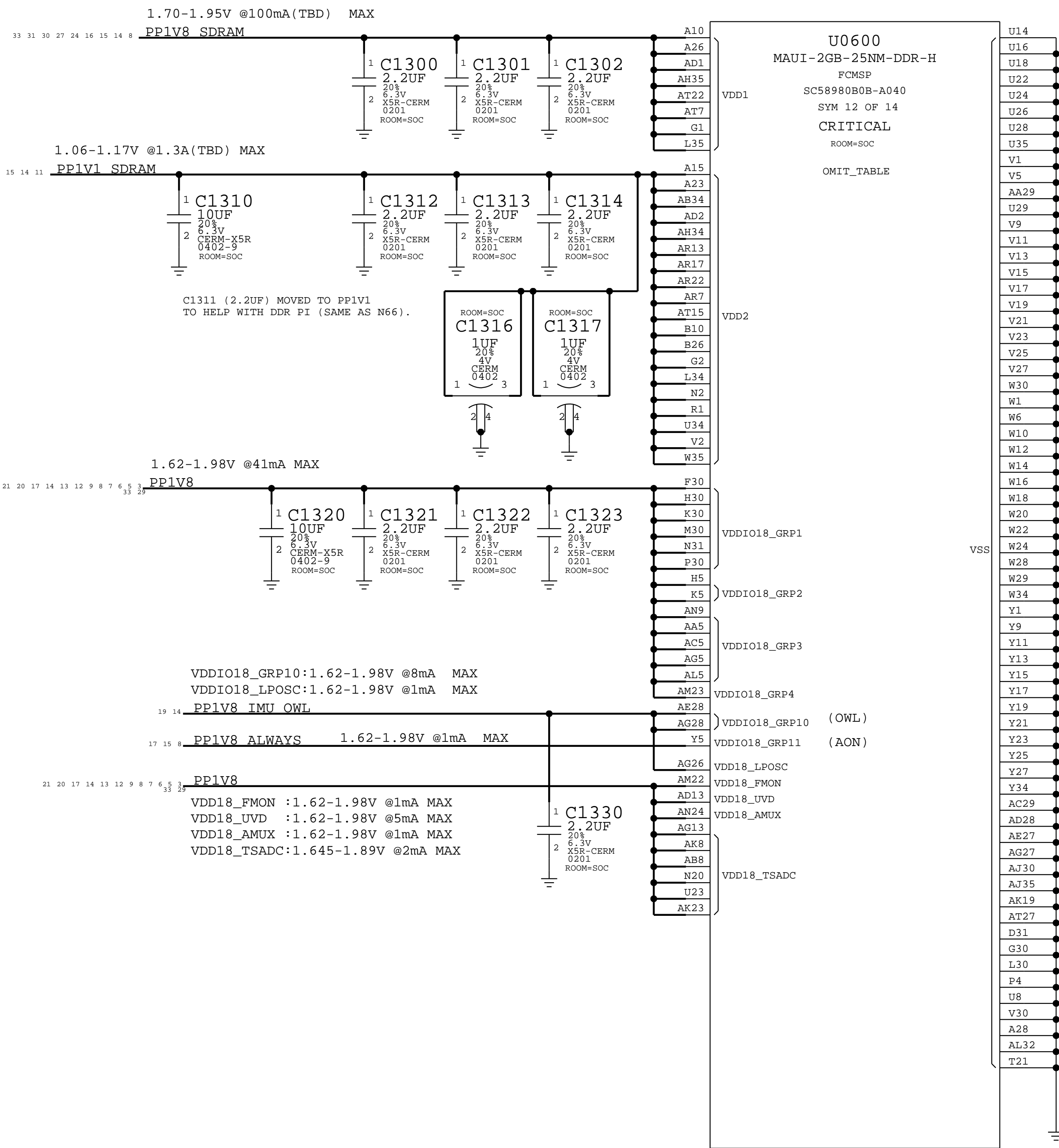



SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
SOC:POWER (1/3)			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-1902		D
	REVISION		
NOTICE OF PROPRIETARY PROPERTY:		A.0.0	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT 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	
		11 OF 49	
		SHEET	
		10 OF 59	

MAUI - POWER SUPPLIES

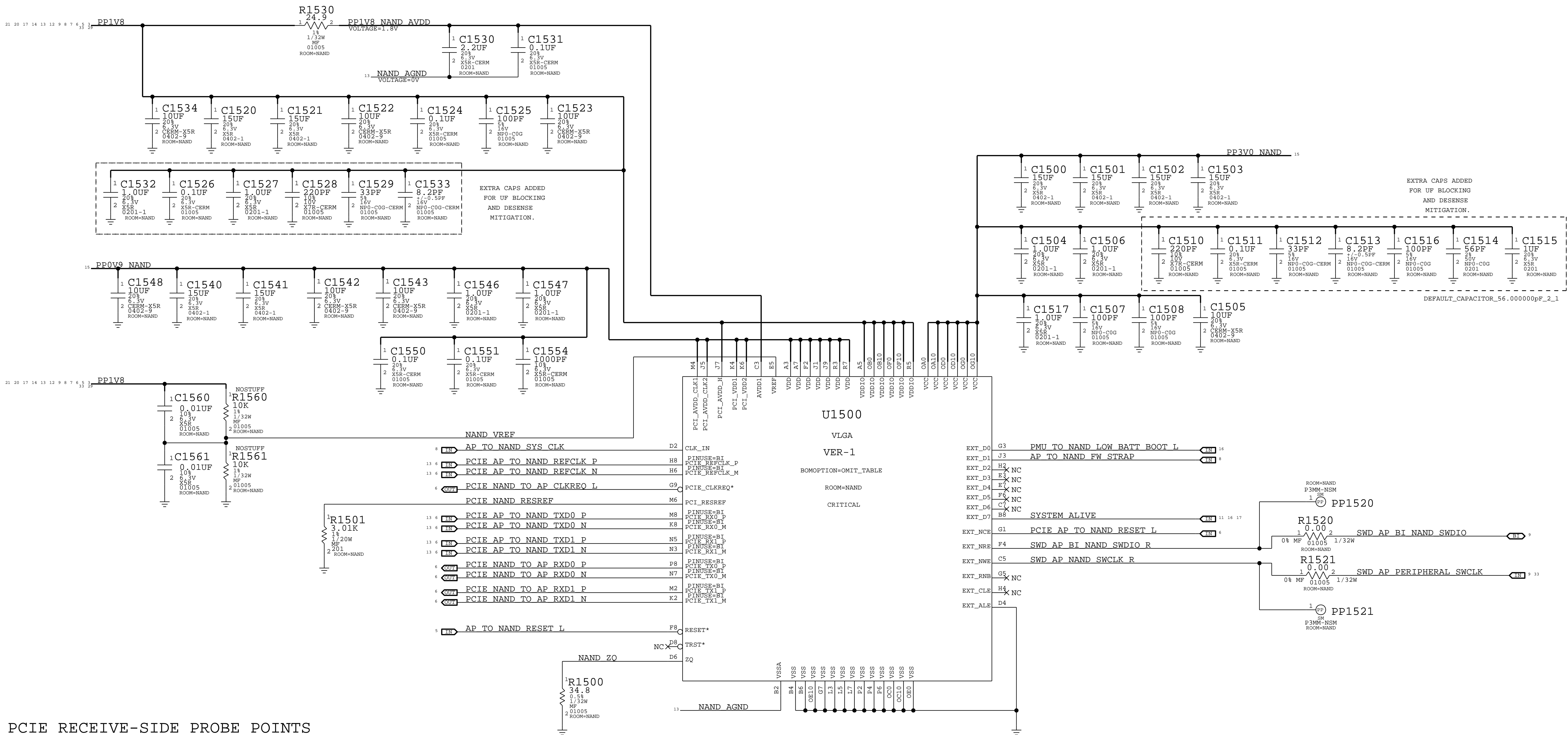


MAUI - POWER SUPPLIES

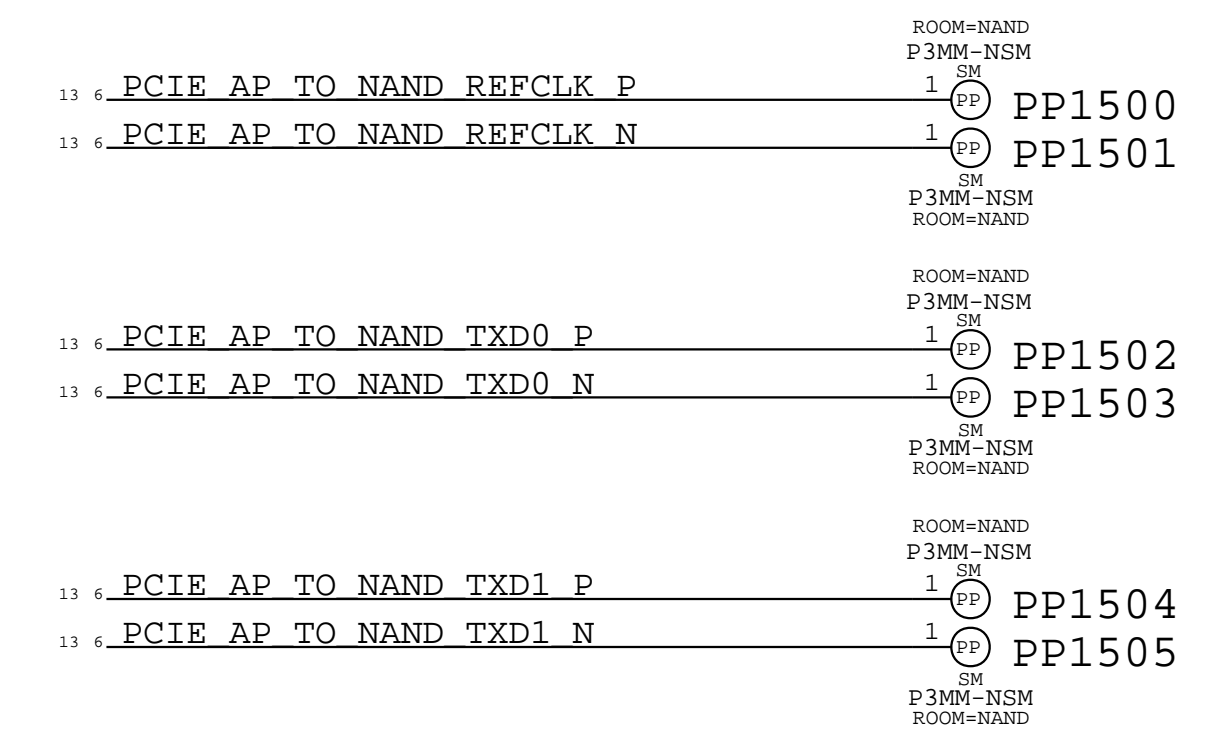



SYNC_MASTER=N/A		SYNC_DATE=N/A			
PAGE TITLE					
SOC:POWER (3/3)					
 Apple Inc.		DRAWING NUMBER	051-1902	SIZE	D
		REVISION	A.0.0		
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT 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			
		SHEET			
		13 OF 49			
		12 OF 59			

S3E NAND

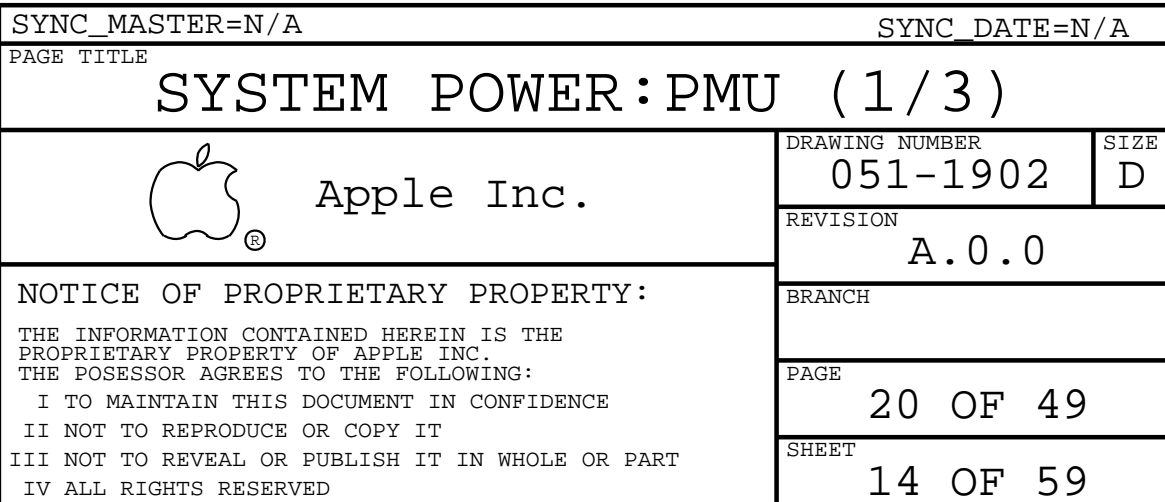


PCIE RECEIVE-SIDE PROBE POINTS

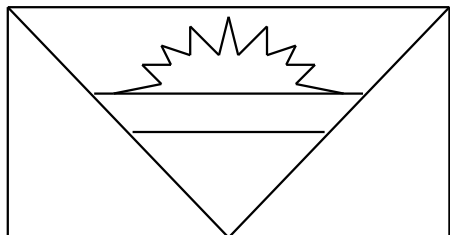


SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
NAND			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-1902		D
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	REVISION		A.0.0
	BRANCH		
	PAGE		
	15 OF 49		
	SHEET		
13 OF 59			

A stylized drawing of a flag. The top half is a white triangle containing a black sun with jagged rays. The bottom half consists of two horizontal black stripes on a white background.

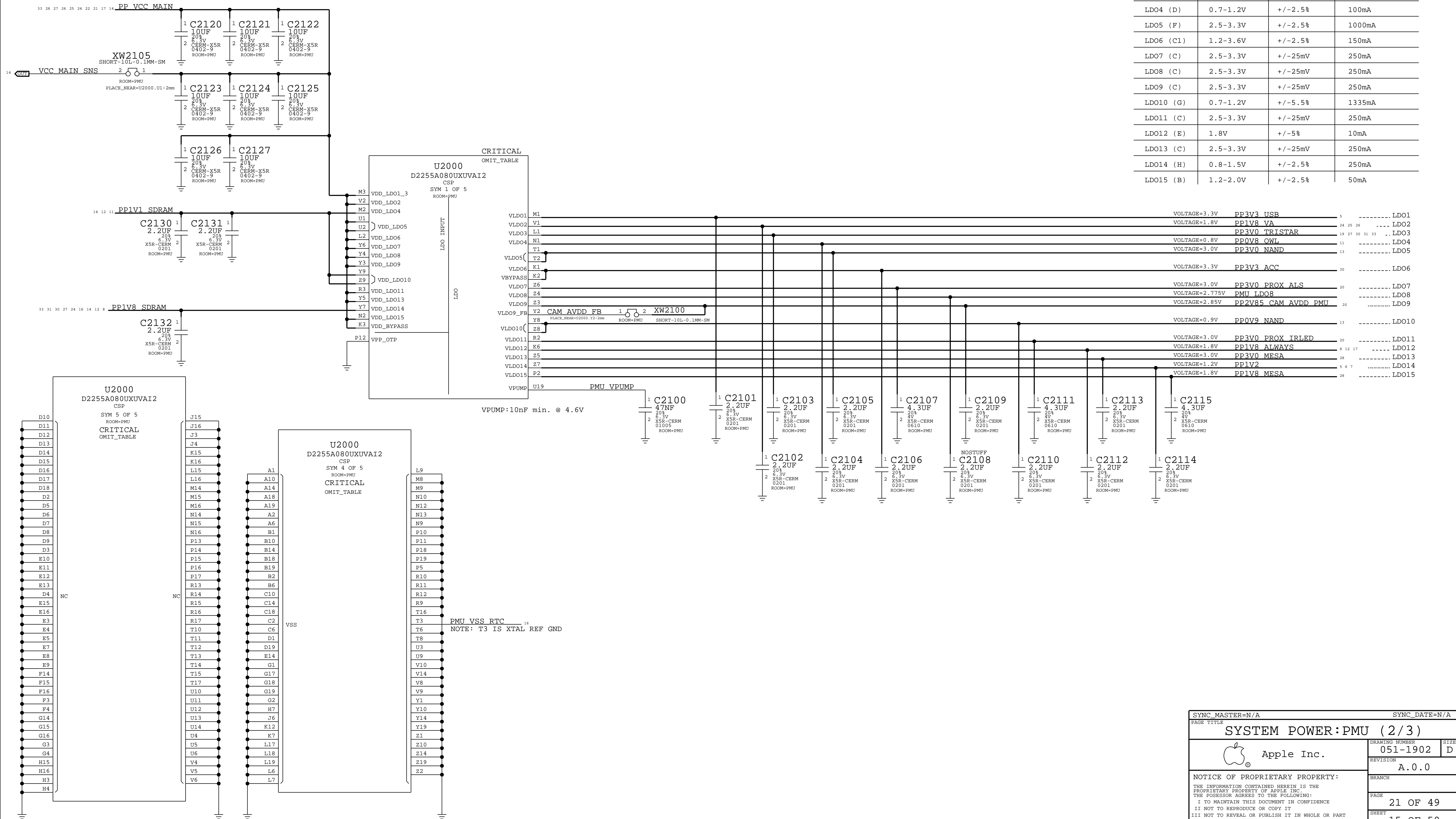


ANTIGUA PMU - LDOs




ANTIGUA LDO SPECS

LDO#	ADJ. RANGE	ACCURACY	MAX. CURRENT
LDO1 (A)	2.5-3.3V	+/-1.4%	50mA
LDO2 (B)	1.2-2.0V	+/-2.5%	50mA
LDO3 (A)	2.5-3.3V	+/-1.4%	50mA
LDO4 (D)	0.7-1.2V	+/-2.5%	100mA
LDO5 (F)	2.5-3.3V	+/-2.5%	1000mA
LDO6 (C1)	1.2-3.6V	+/-2.5%	150mA
LDO7 (C)	2.5-3.3V	+/-25mV	250mA
LDO8 (C)	2.5-3.3V	+/-25mV	250mA
LDO9 (C)	2.5-3.3V	+/-25mV	250mA
LDO10 (G)	0.7-1.2V	+/-5.5%	1335mA
LDO11 (C)	2.5-3.3V	+/-25mV	250mA
LDO12 (E)	1.8V	+/-5%	10mA
LDO13 (C)	2.5-3.3V	+/-25mV	250mA
LDO14 (H)	0.8-1.5V	+/-2.5%	250mA
LDO15 (B)	1.2-2.0V	+/-2.5%	50mA



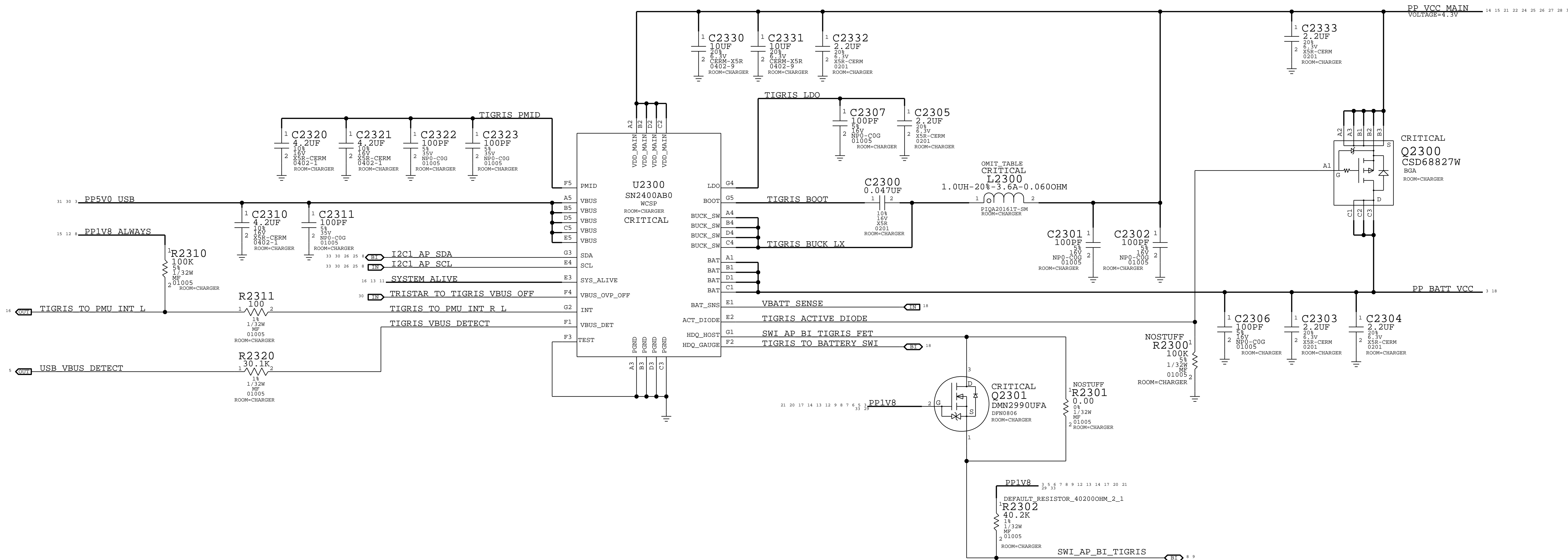
NOTE (1): INPUT PULL-DOWN 100-300k
NOTE (2): INPUT PULL-DOWN 1M
NOTE (3): INPUT PULL-UP OR DOWN 100k-300k
NOTE (4): OUTPUT OPEN-DRAIN, REQUIRES PULL-UP




SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
SYSTEM POWER:PMU (3/3)			
 Apple Inc.		DRAWING NUMBER 051-1902	SIZE 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 A.0.0	
		BRANCH PAGE 22 OF 49	
		SHEET 16 OF 59	

TIGRIS CHARGER

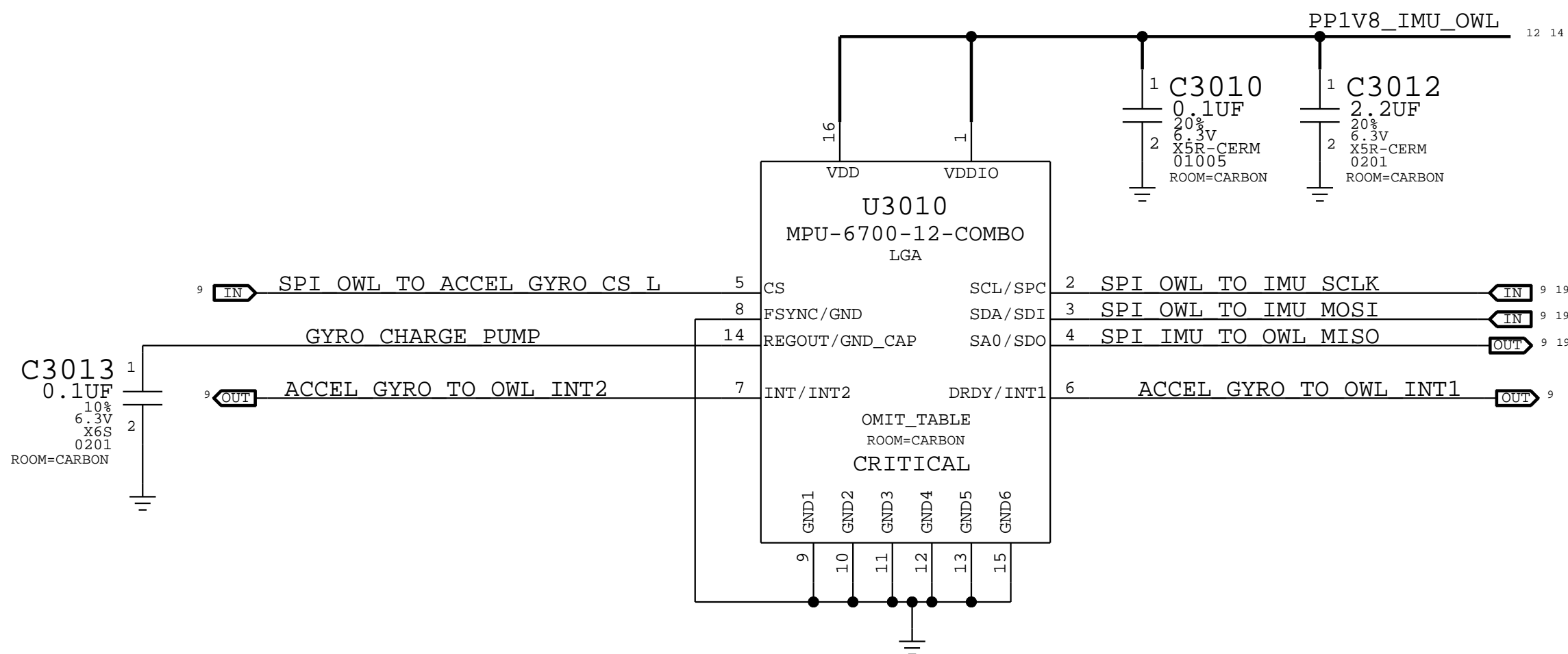
APN:343S00033



SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
SYSTEM POWER:CHARGER			
 Apple Inc.		DRAWING NUMBER	SIZE
		051-1902	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	A.0.0
		BRANCH	
		PAGE	23 OF 49
		SHEET	17 OF 59

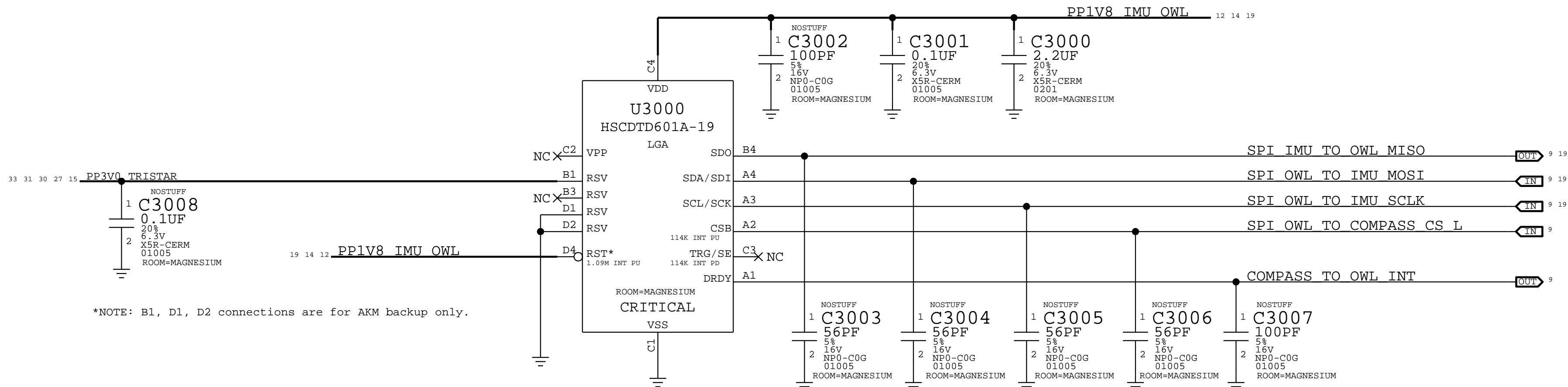
CARBON - ACCEL & GYRO

INVENSENSE (APN: 338S00017, 338S00087)



MAGNESIUM - COMPASS

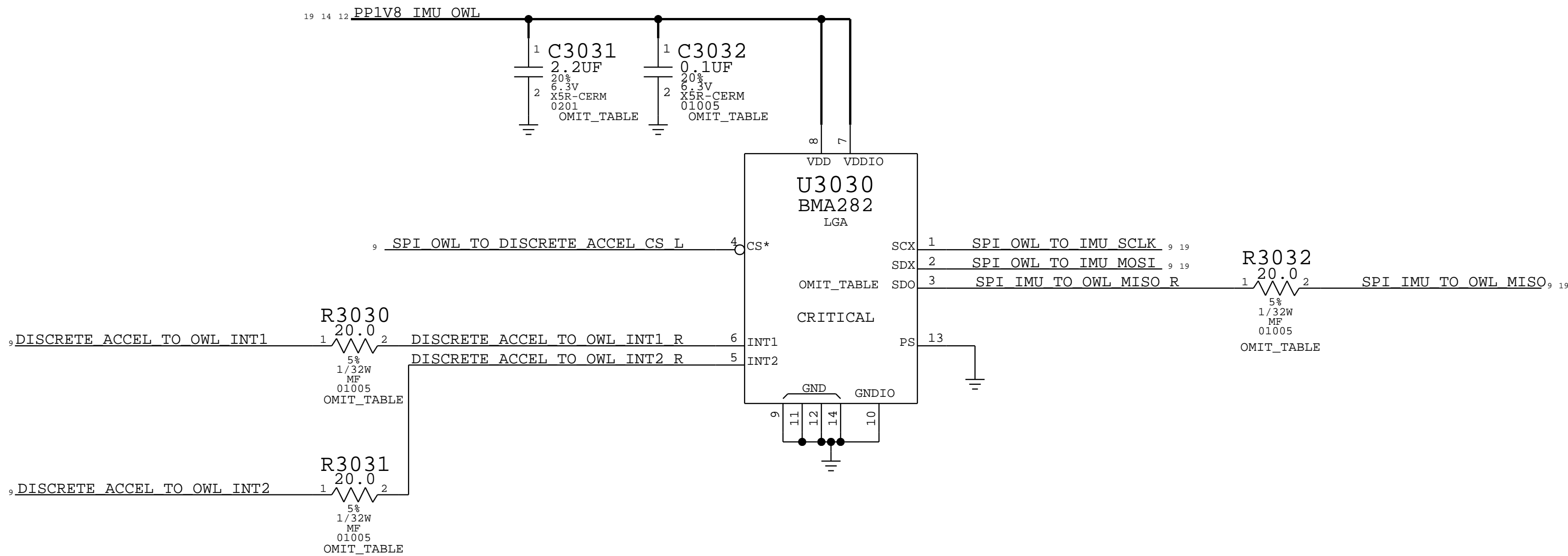
ALPS (APN:338S00084)



*NOTE: B1, D1, D2 connections are for AKM backup only.

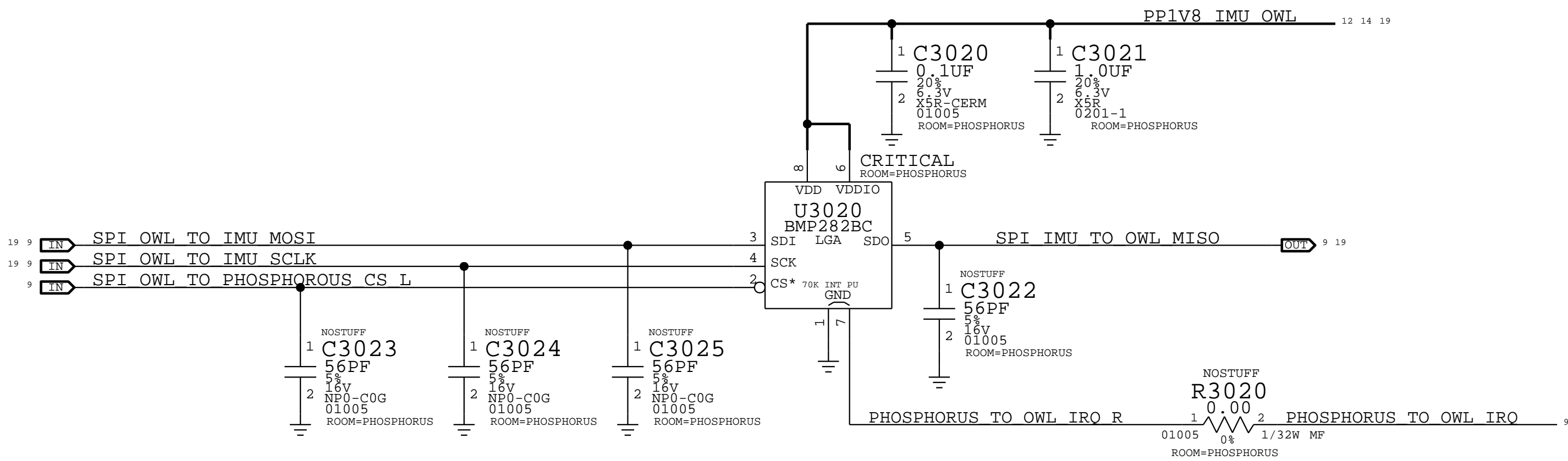
DISCRETE ACCEL

BOSCH (APN: 338S1163)




PHOSPHOROUS

BOSCH (APN:338S00044)

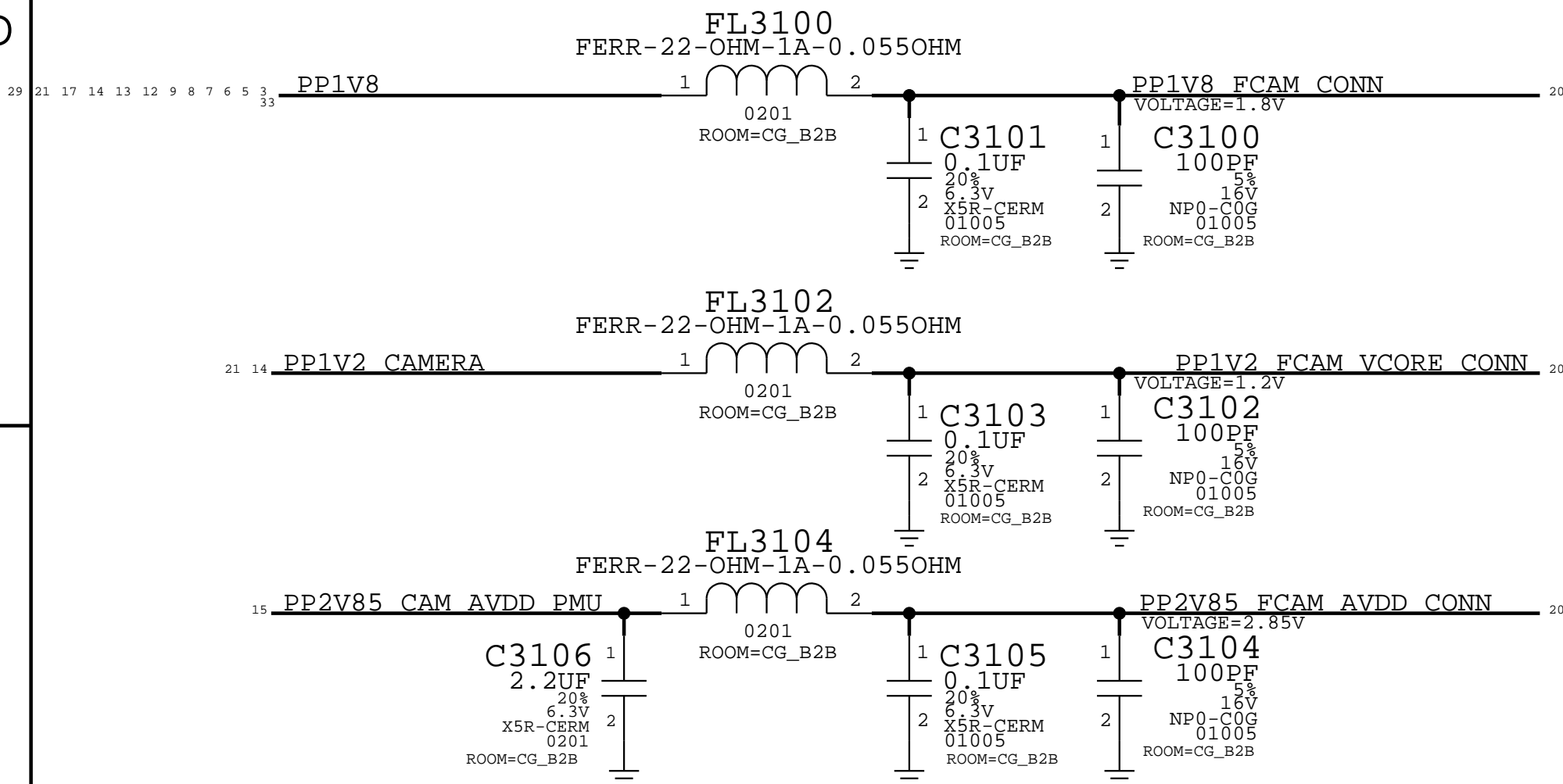


R3020 SHOULD BE STUFFED FOR ST PHOSPHOROUS ONLY.
FOR BOSCH PHOSPHOROUS, PINS 1 AND 7 ARE SHORTED INTERNALLY,
SO NO NEED FOR 0-OHM TO GROUND OPTION ON PIN 7.

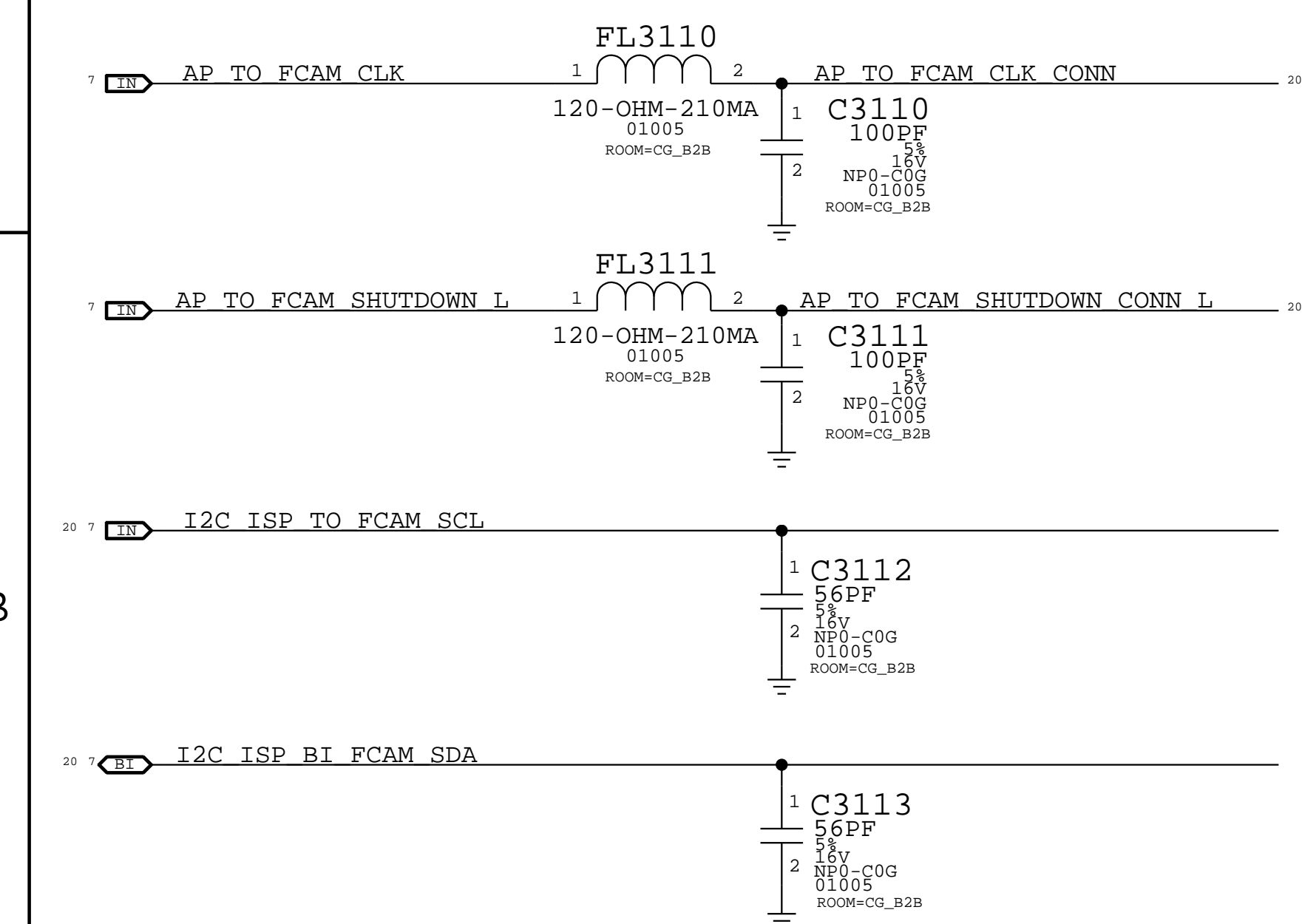
SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
SENSORS:MOTION SENSORS			
 Apple Inc.		DRAWING NUMBER	051-1902
		SIZE D	
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		REVISION	A.0.0
		BRANCH	
		PAGE	30 OF 49
		SHEET	19 OF 59

FOREHEAD FLEX (FCAM)

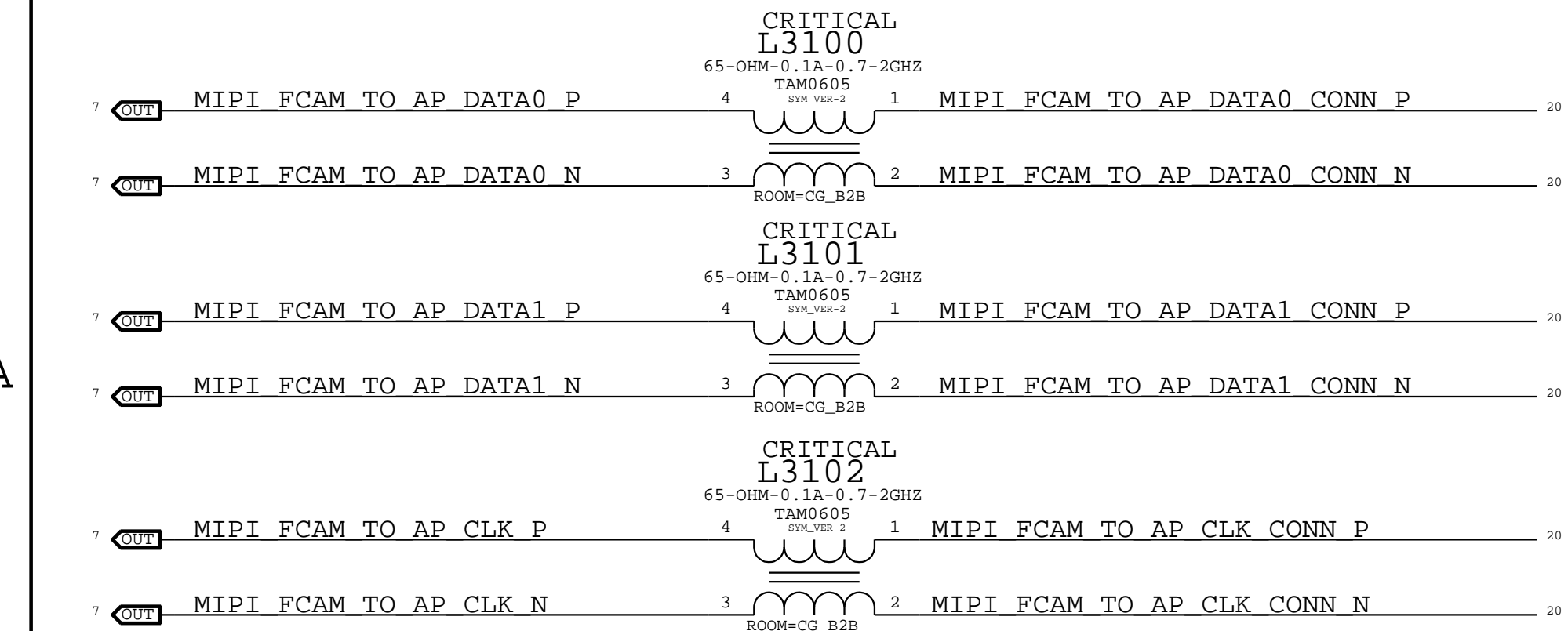
CAMERA POWER



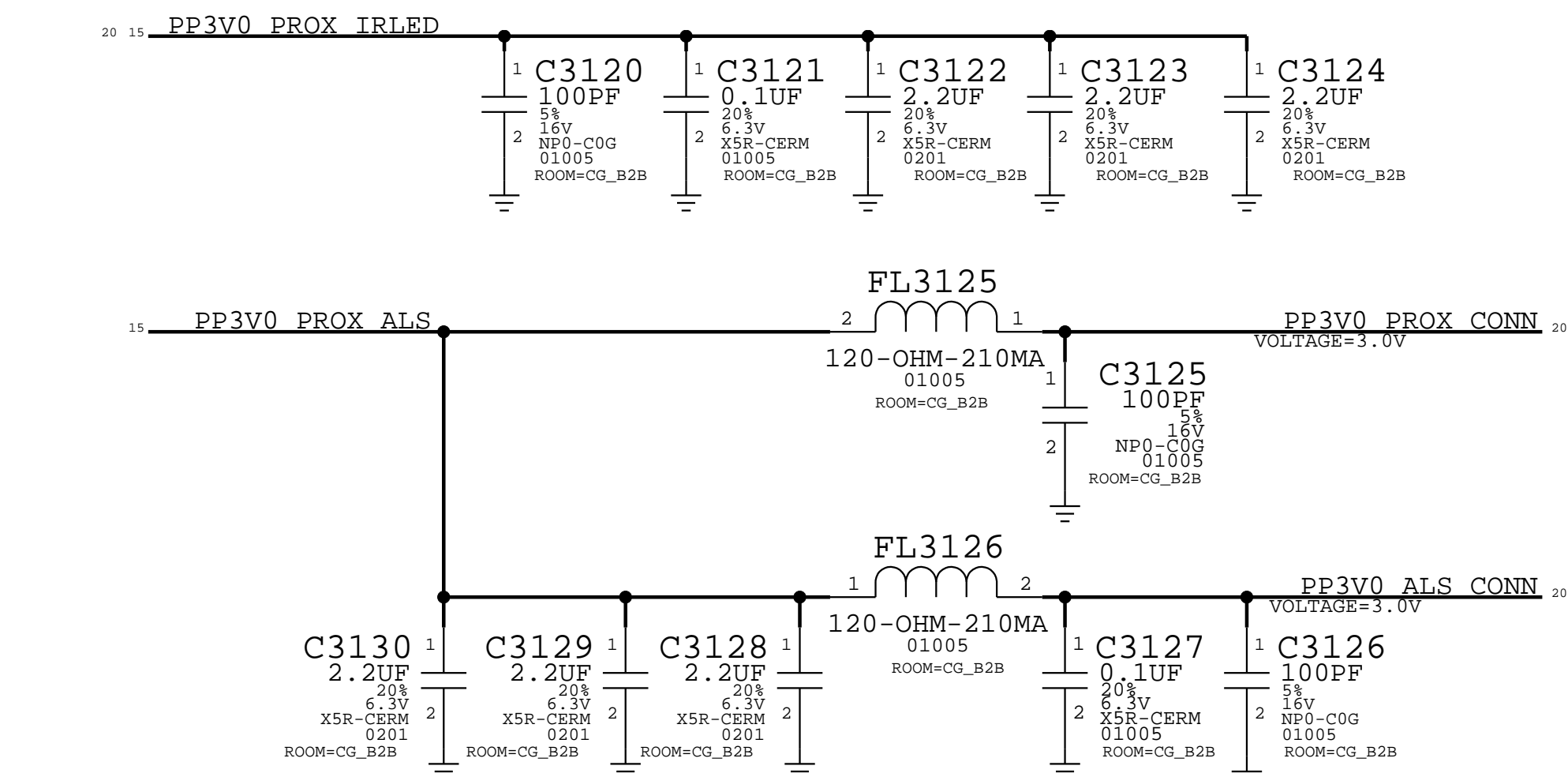
CAMERA I/O



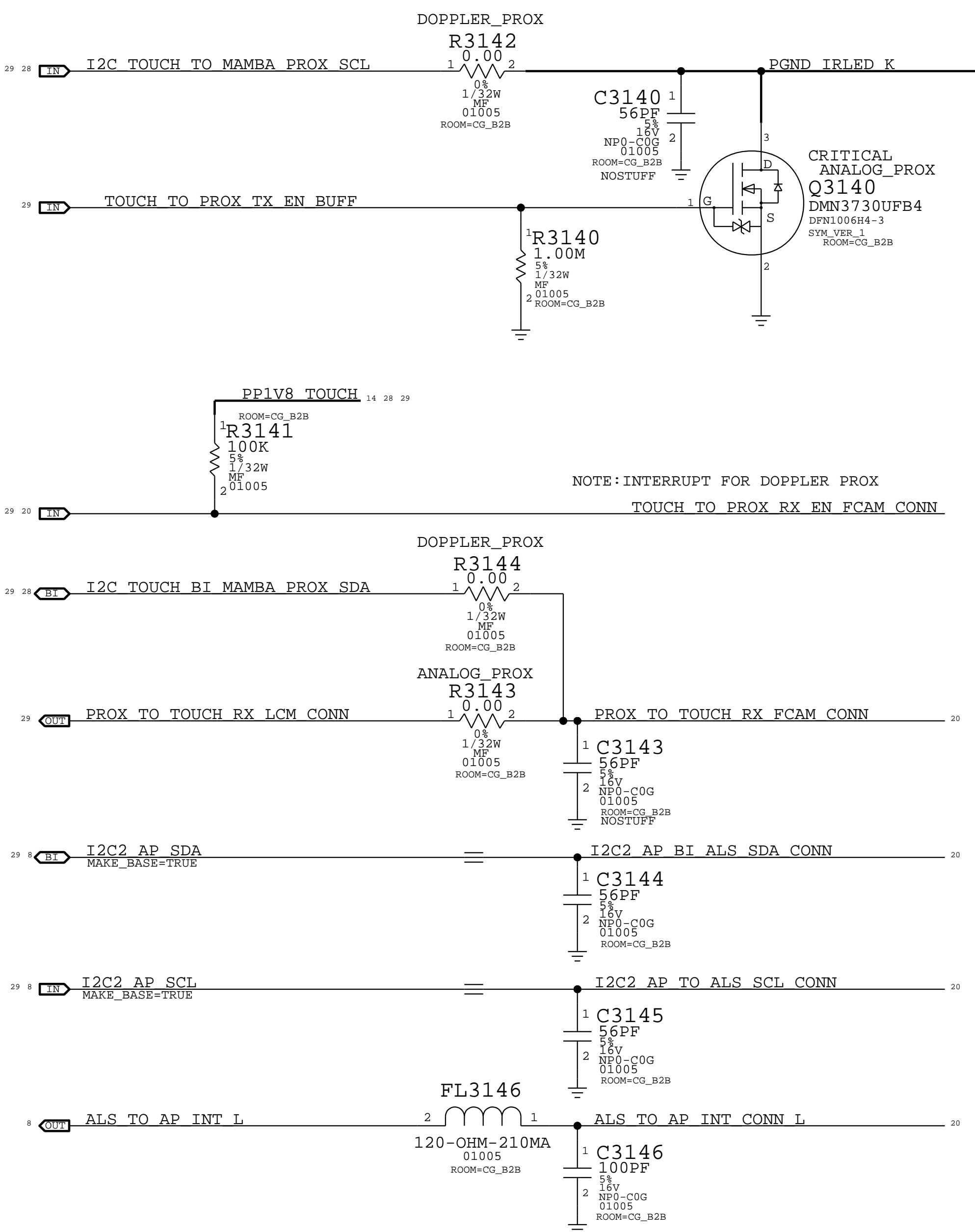
CAMERA MIPI



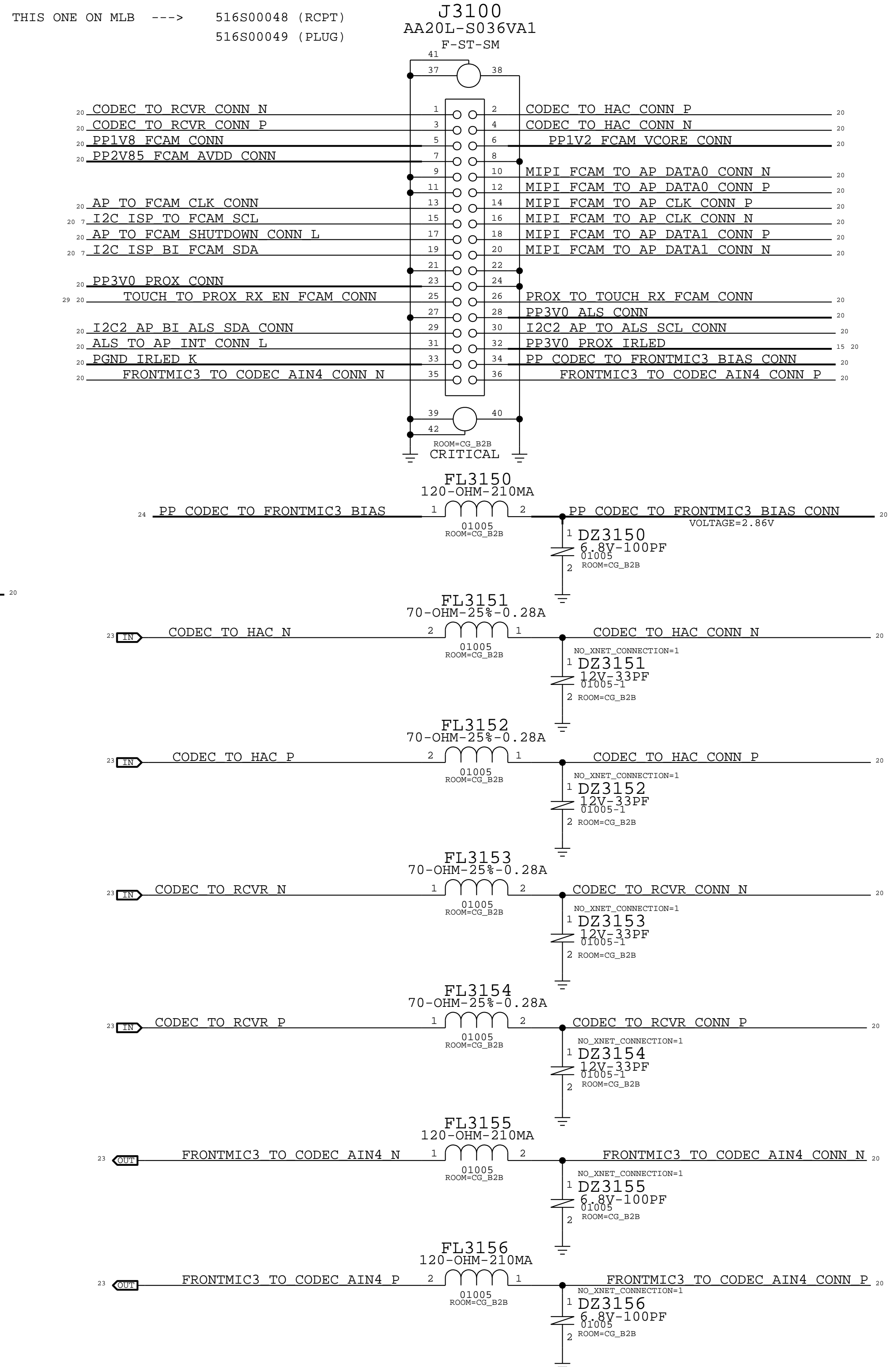
PROX & ALS POWER




PROX & ALS INTERFACE



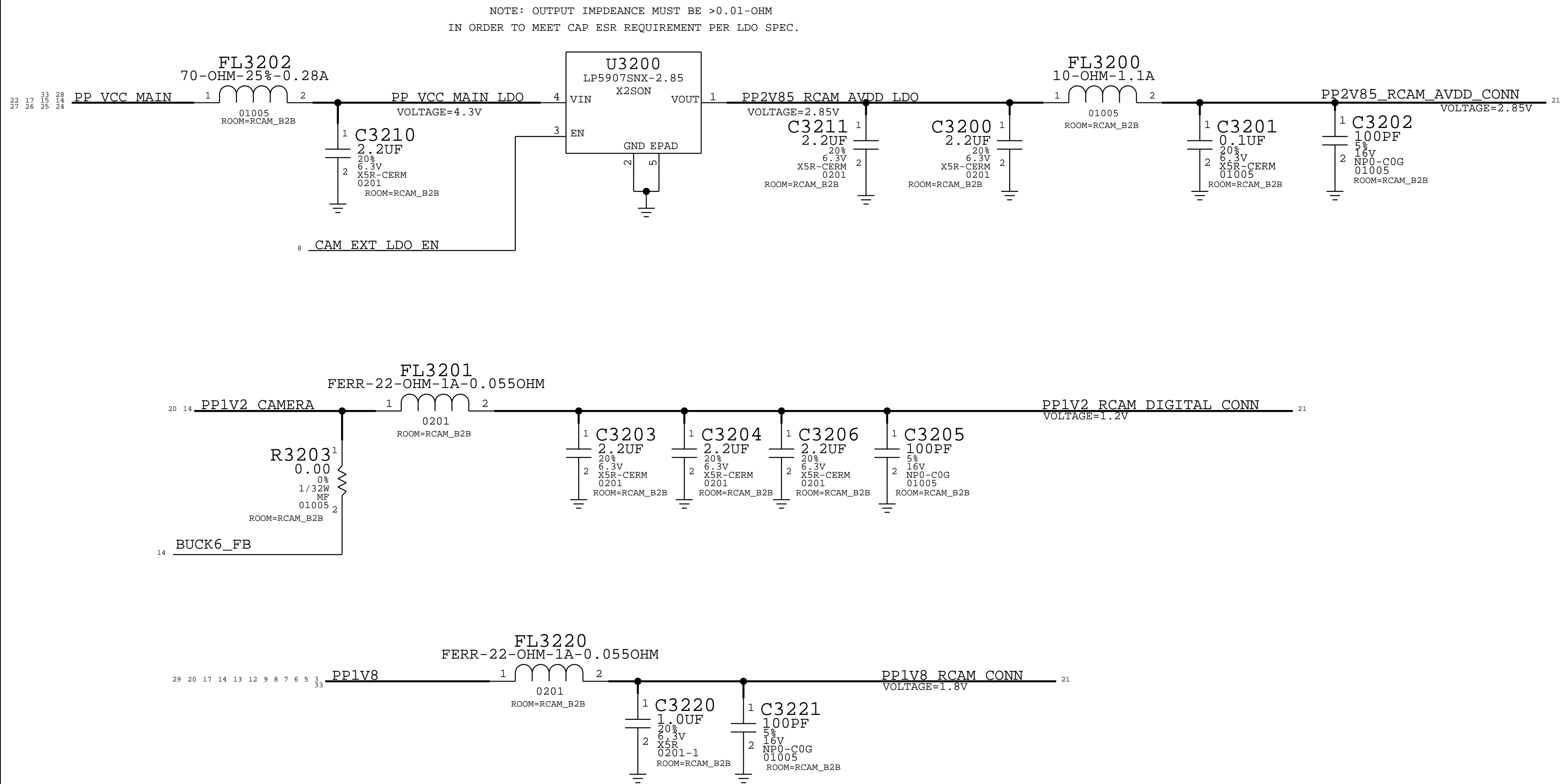
FOREHEAD CONNECTOR



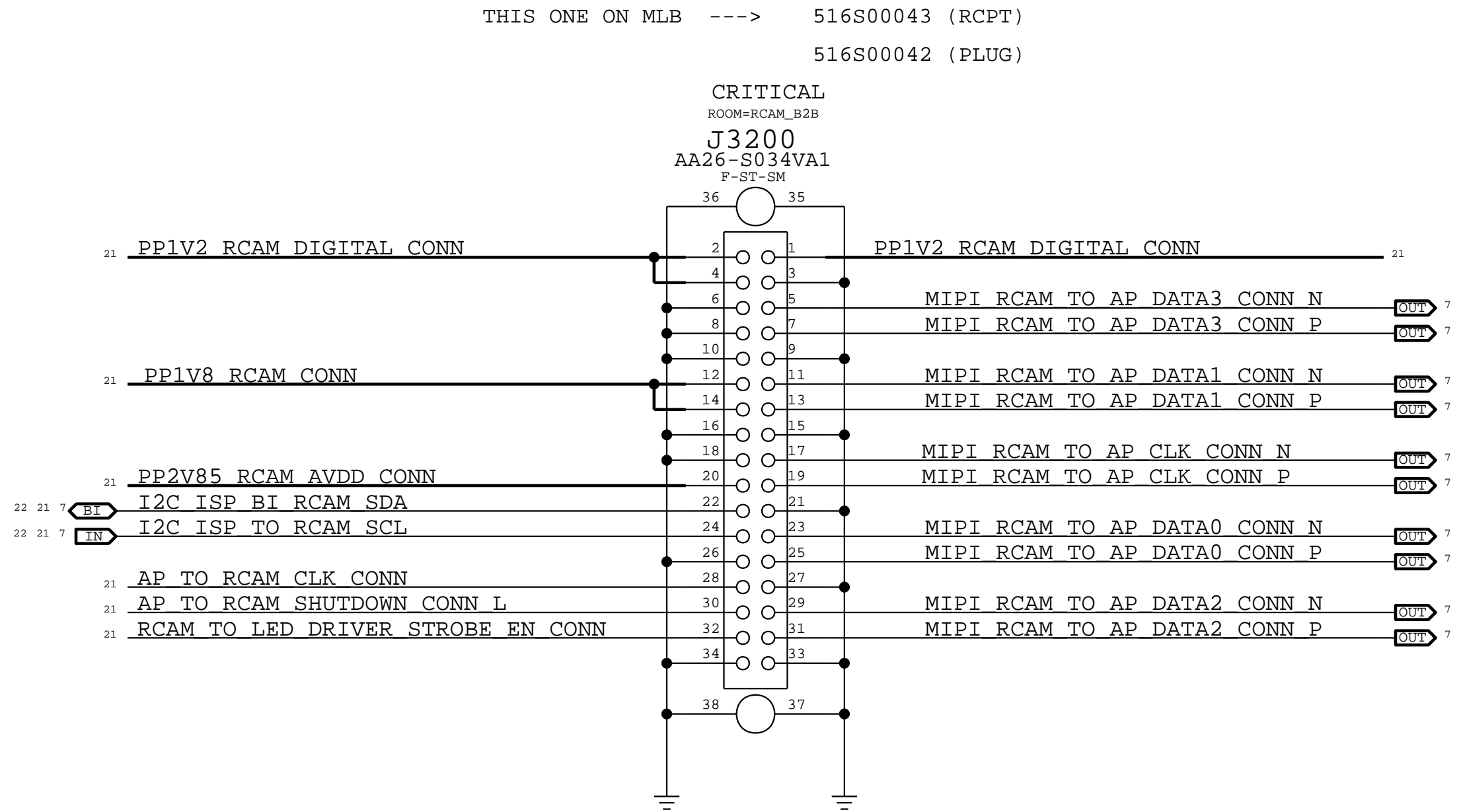
SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
CAMERA:FOREHEAD FLEX B2B			
 Apple Inc.		DRAWING NUMBER	051-1902
		REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT 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	31 OF 49
		SHEET	20 OF 59

REAR CAMERA FLEX

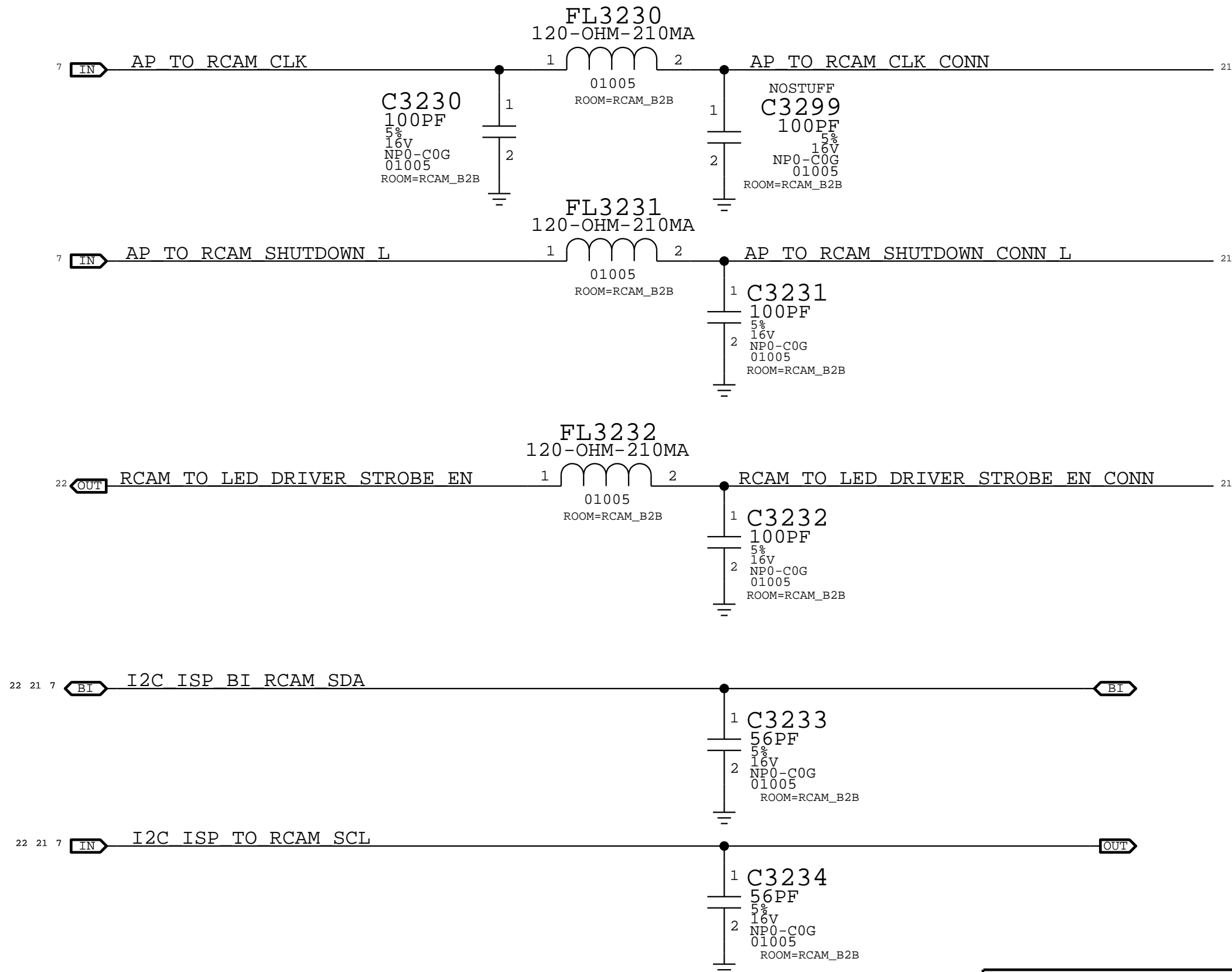
CAMERA POWER




RCAM CONNECTOR



DIGITAL I/O



SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
CAMERA:REAR CAMERA B2B			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-1902		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		
	A.0.0		
	BRANCH		
	PAGE		
			32 OF 49
			SHEET
			21 OF 59

D



B

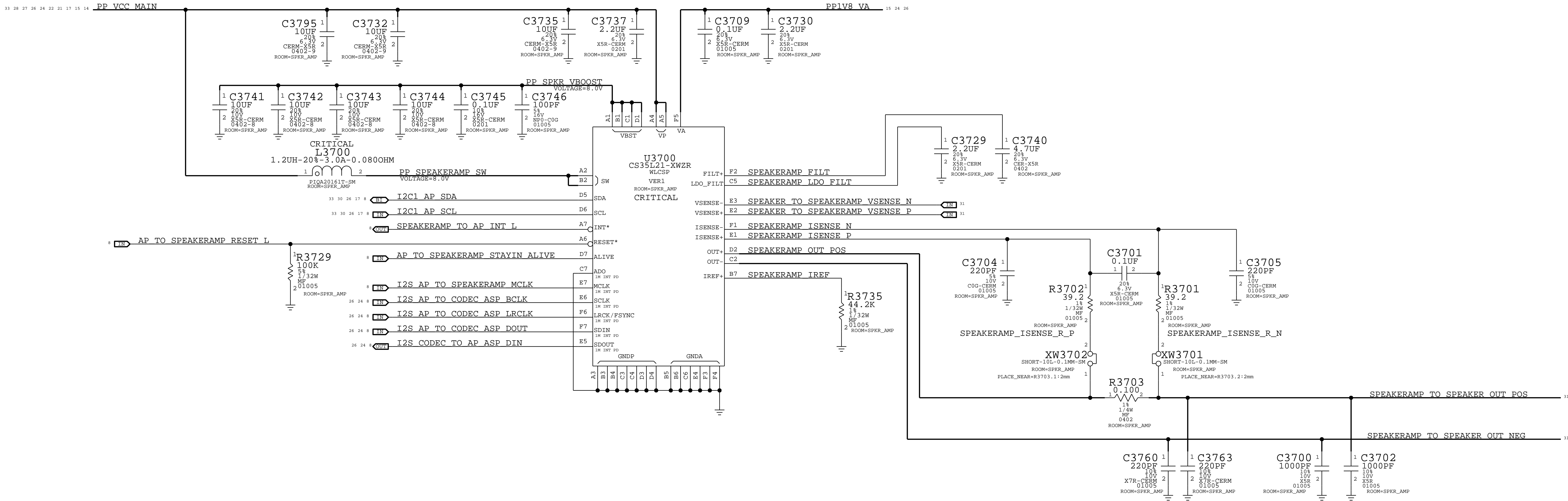
A


D



SPEAKER AMPLIFIER

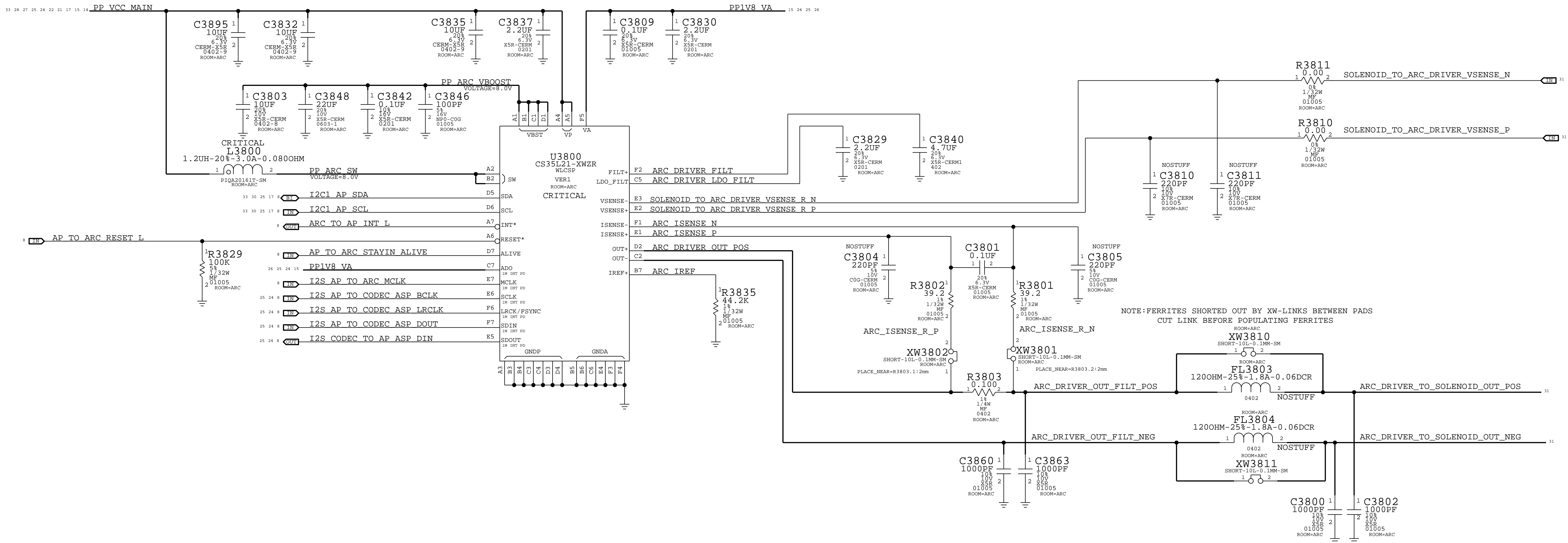
APN: 338S1285




SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
AUDIO:SPEAKER DRIVER			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-1902		D
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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		
	A.0.0		
	BRANCH		
	PAGE		
	37 OF 49		
	SHEET		
	25 OF 59		

ARC DRIVER

APN: 338S1285

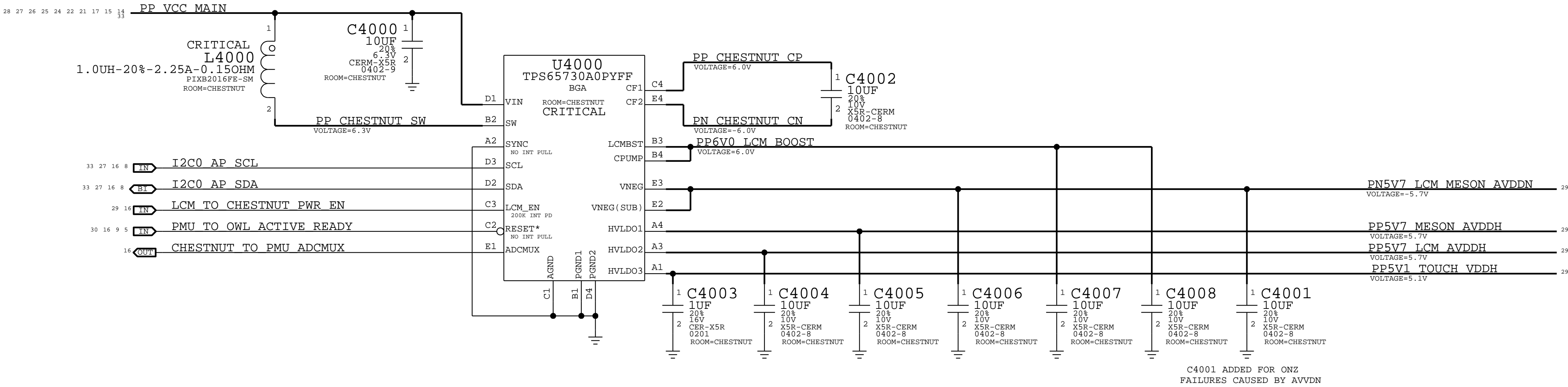


PAGE TITLE		
AUDIO:ARC DRIVER		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	38 OF 49
	SHEET	26 OF 59

DISPLAY & TOUCH - POWER SUPPLIES

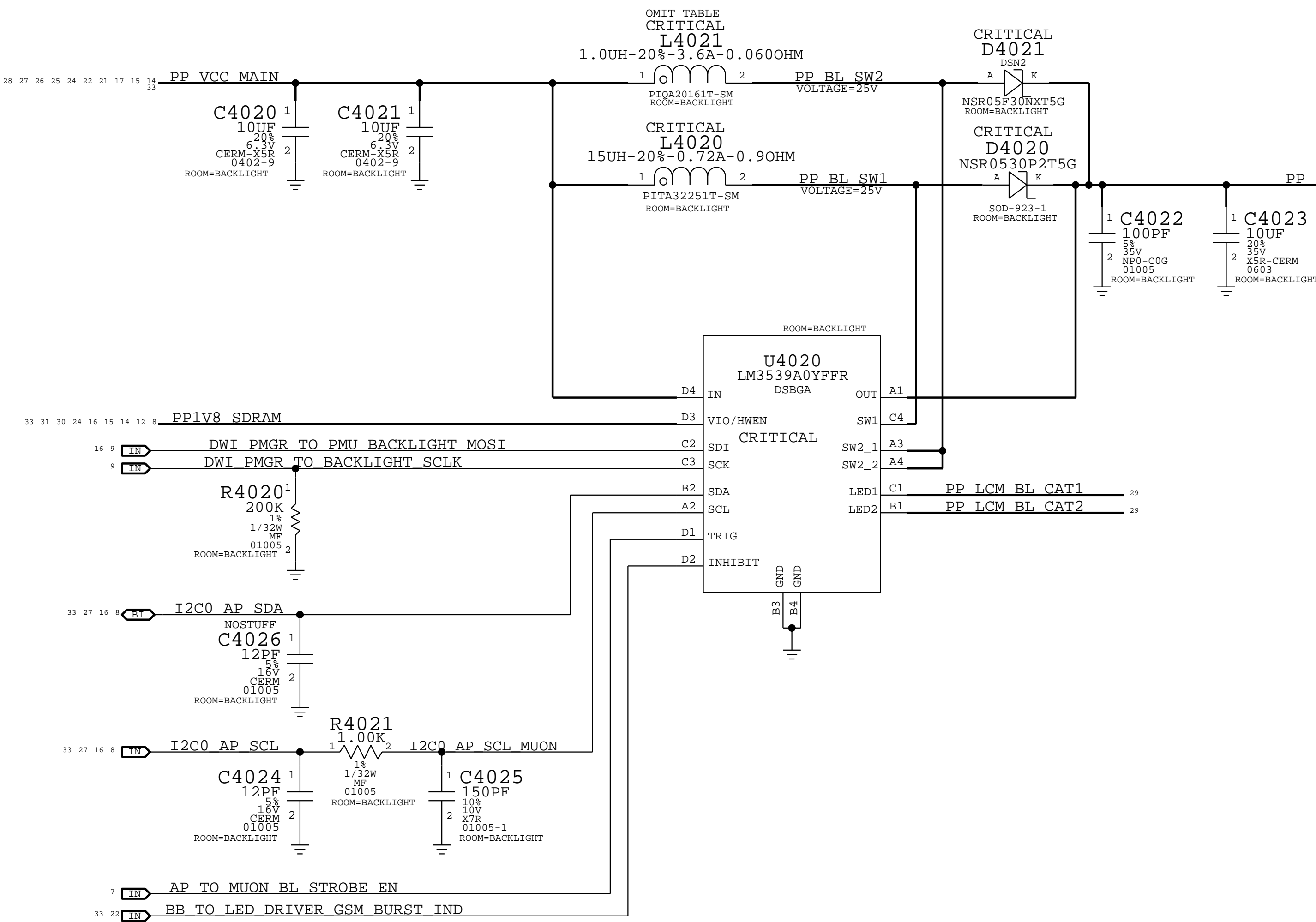
CHESTNUT DISPLAY PMU

APN:338S1172



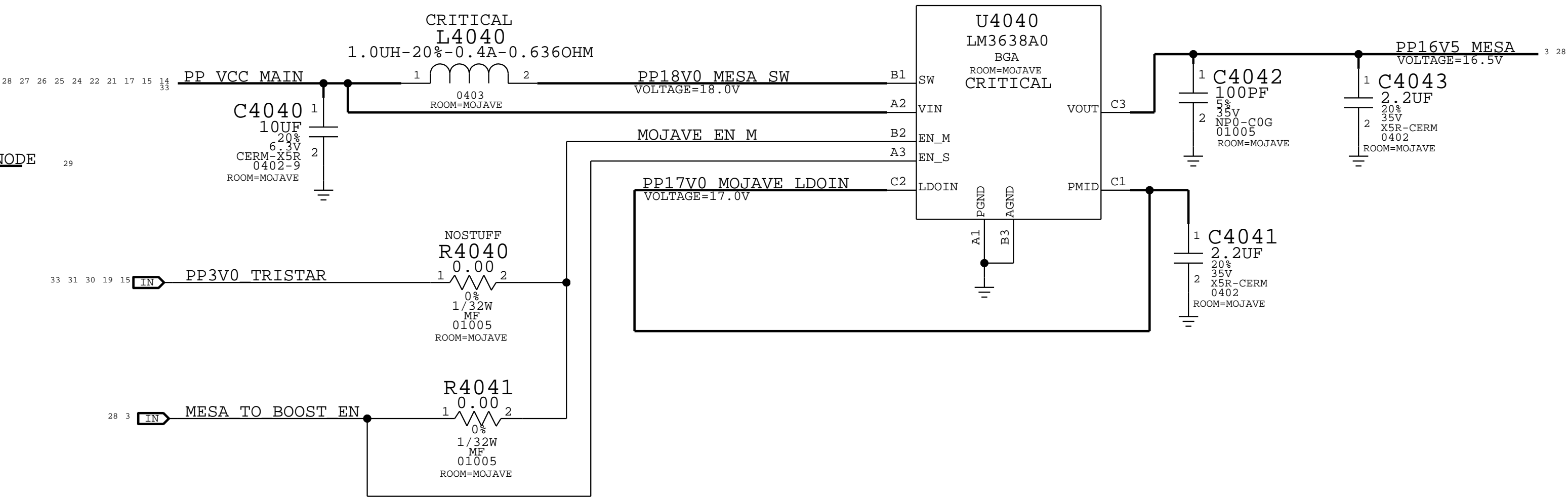
LED BACKLIGHT DRIVER


APN:353S00407



MOJAVE MESA BOOST

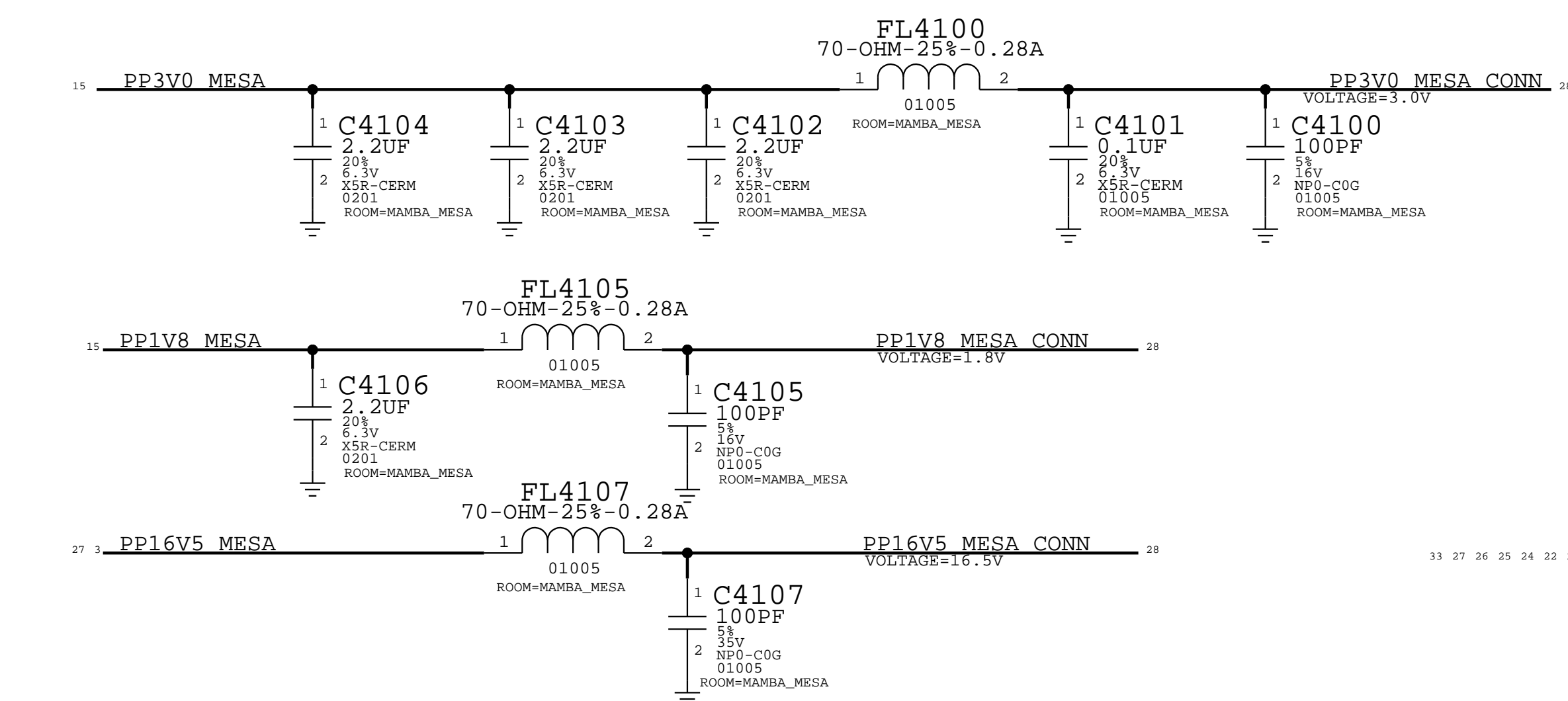
APN:353S00671



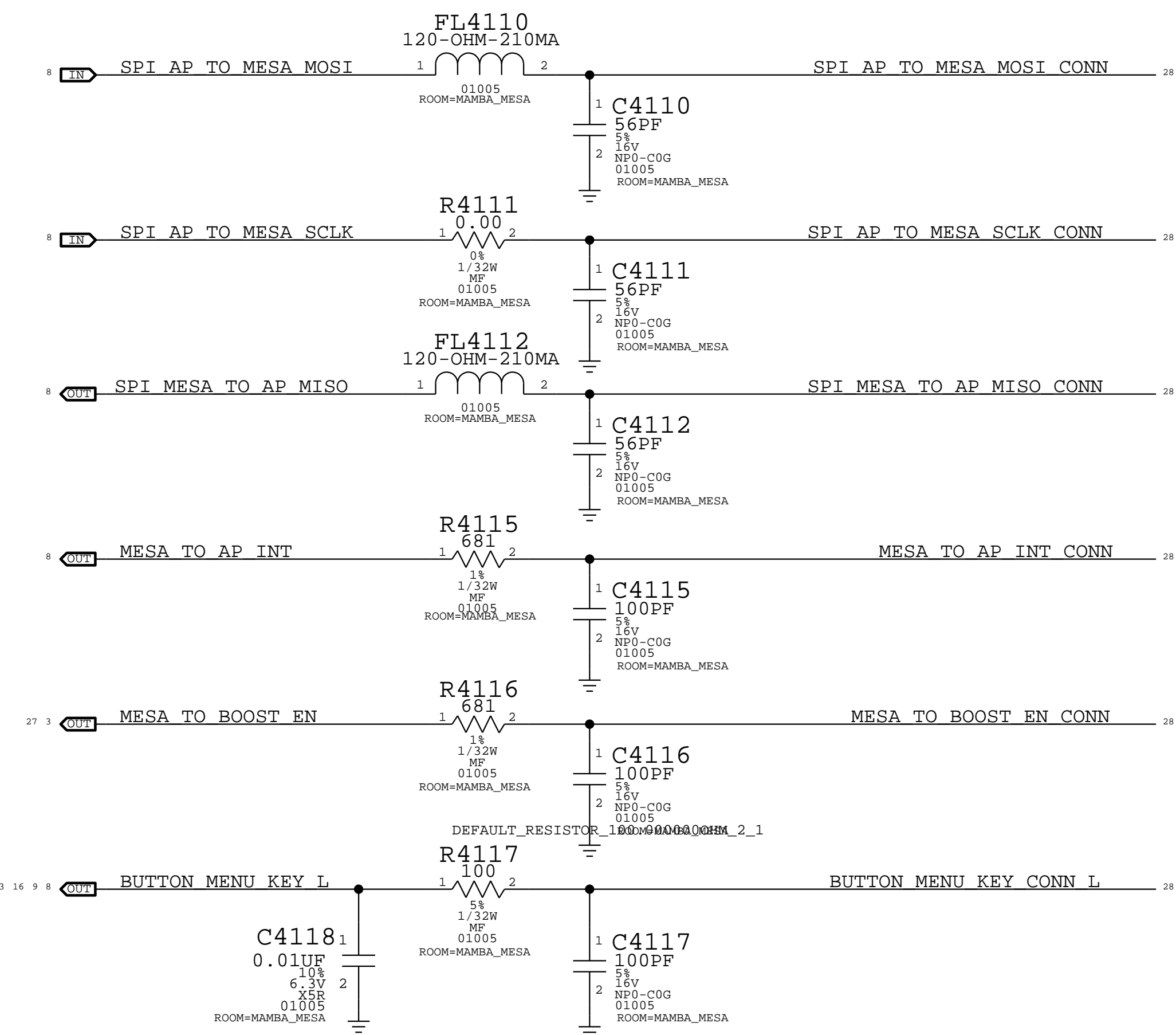
SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
DISPLAY: POWER			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-1902		D
REVISION		A.0.0	
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:		PAGE	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		40 OF 49	
II NOT TO REPRODUCE OR COPY IT		SHEET	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		27 OF 59	
IV ALL RIGHTS RESERVED			

MAMBA & MESA (M&M) FLEX

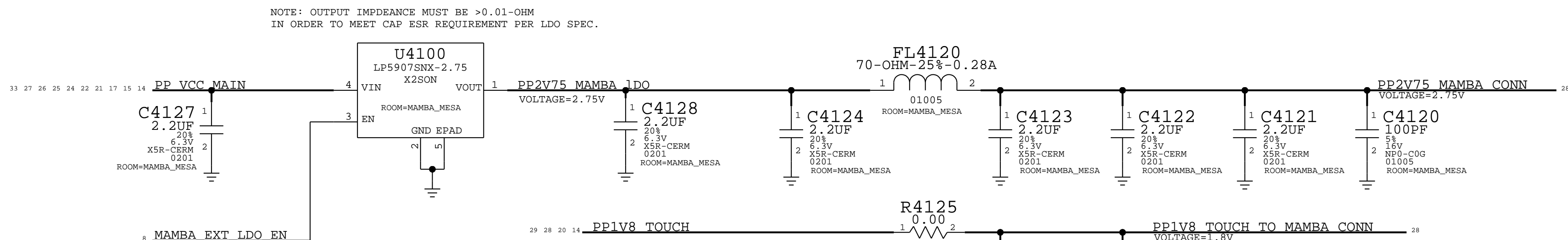
MESA POWER



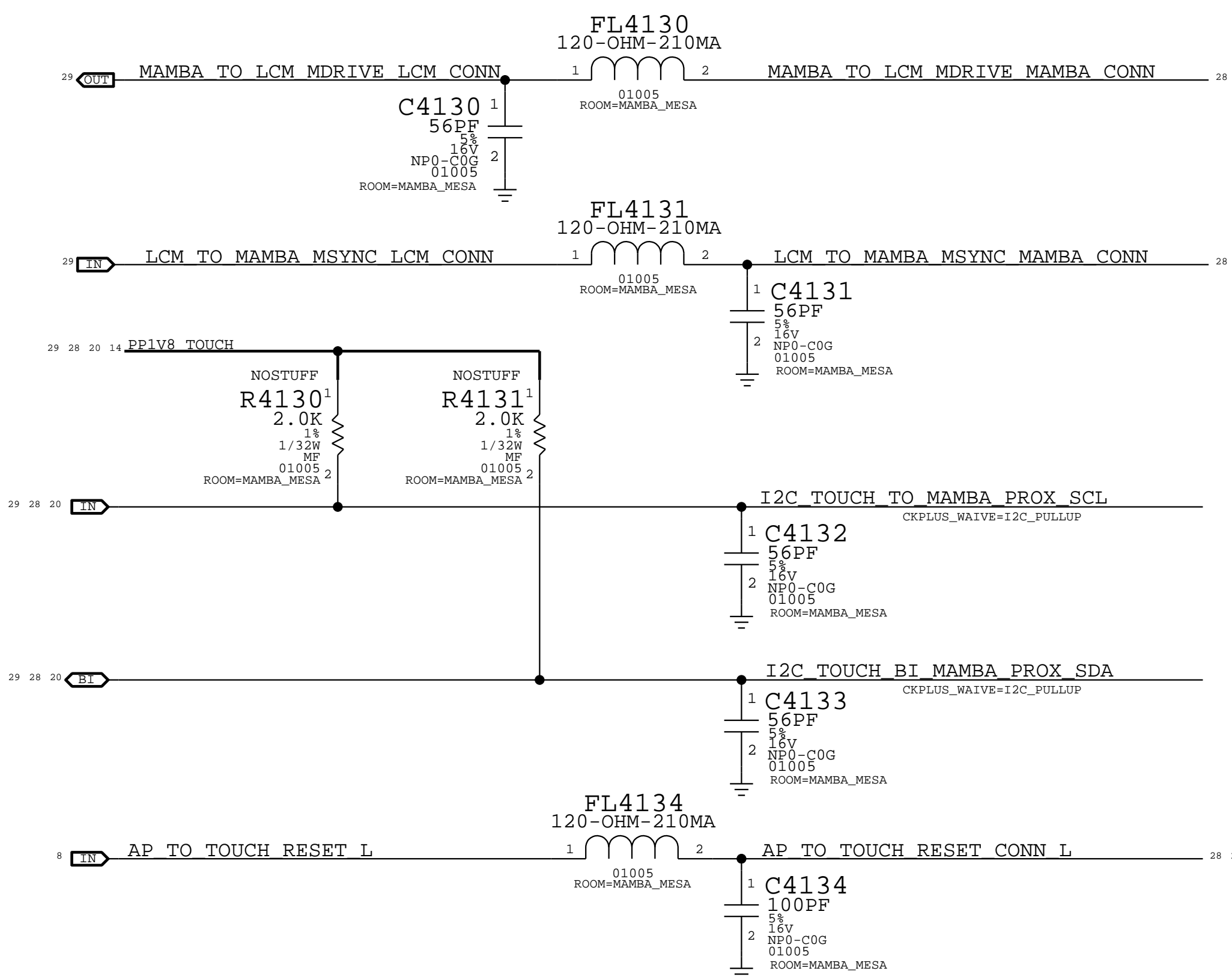
MESA DIGITAL I/O



MAMBA POWER

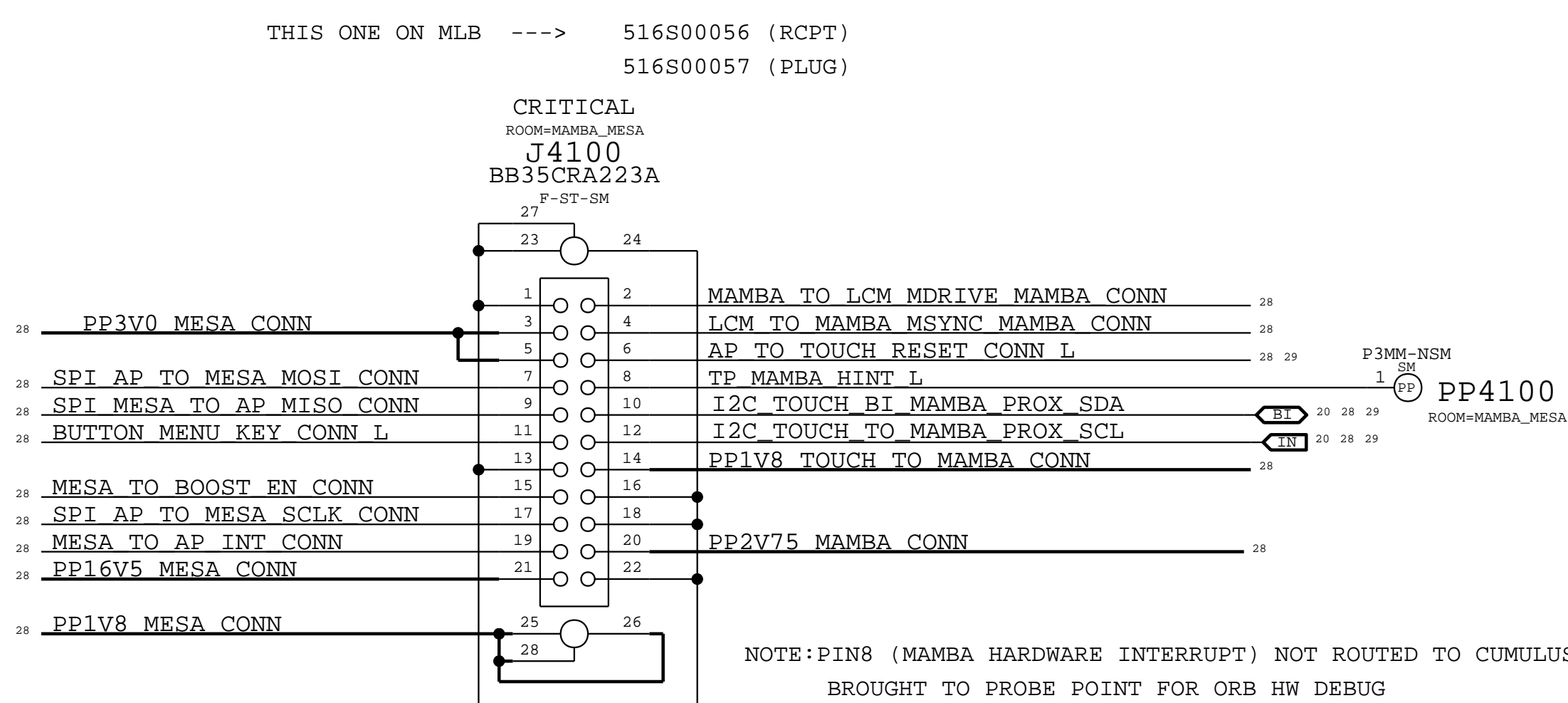



MAMBA DIGITAL I/O



NOTE: TOUCH I2C PULL-UPS TO PP1V8_TOUCH INSIDE KEPLER
ADDING R4130, R4131 AS OPTION FOR TWEAKING VALUES.

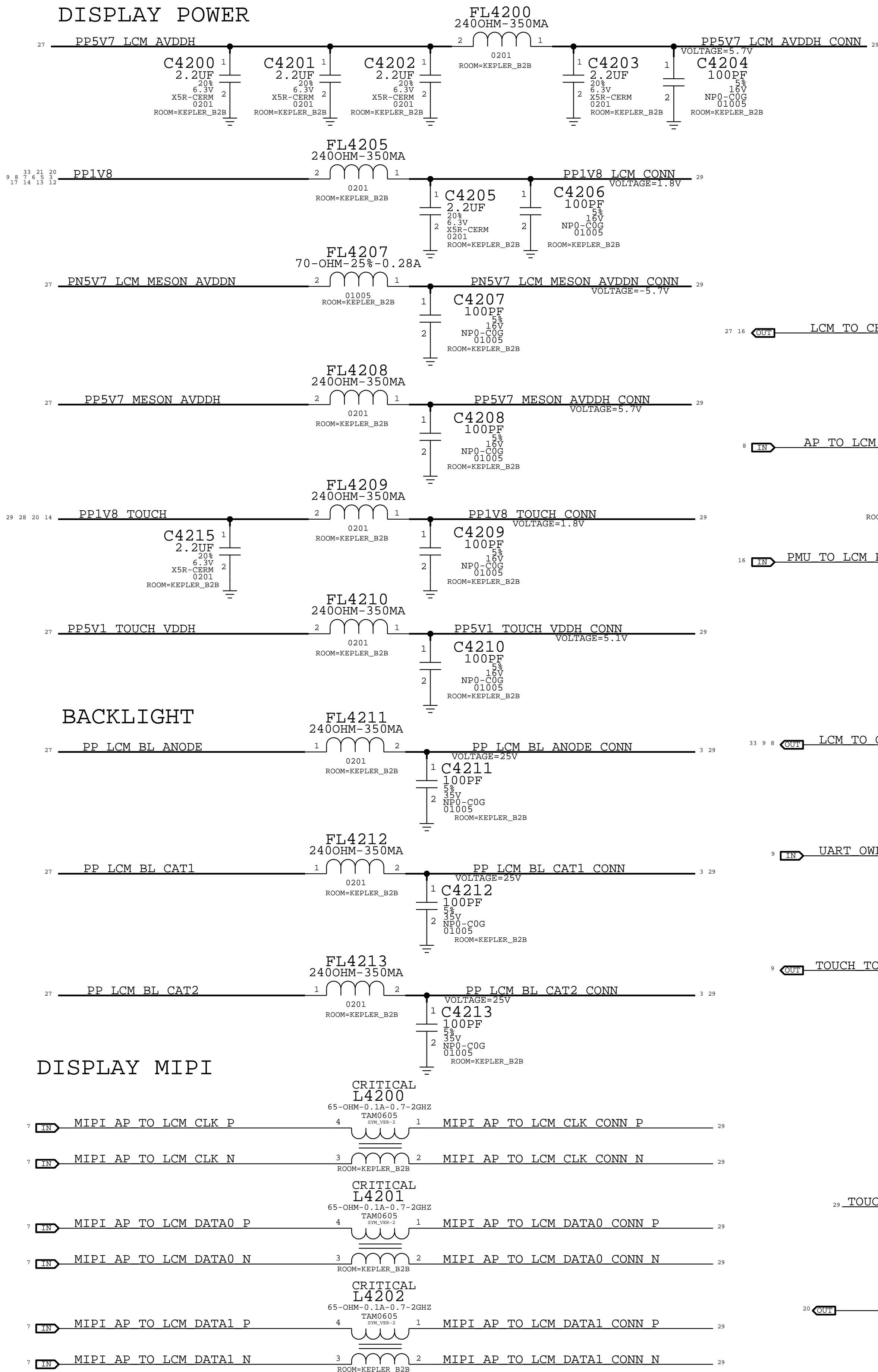
MAMBA & MESA CONNECTOR



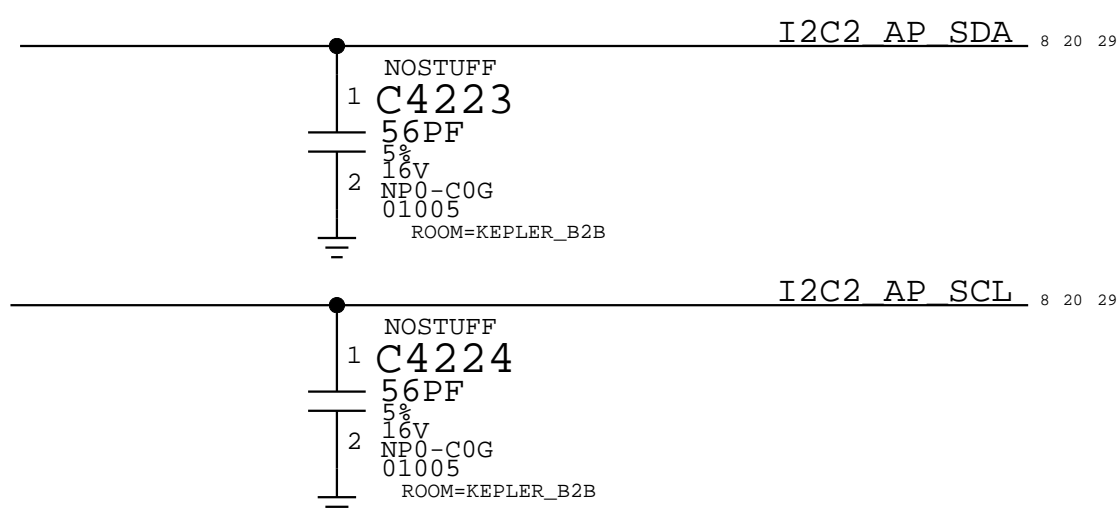
SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
TOUCH:ORB & MESA B2B			
 Apple Inc.		DRAWING NUMBER	051-1902
		REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN 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 49
		SHEET	28 OF 59

DISPLAY & TOUCH FLEX

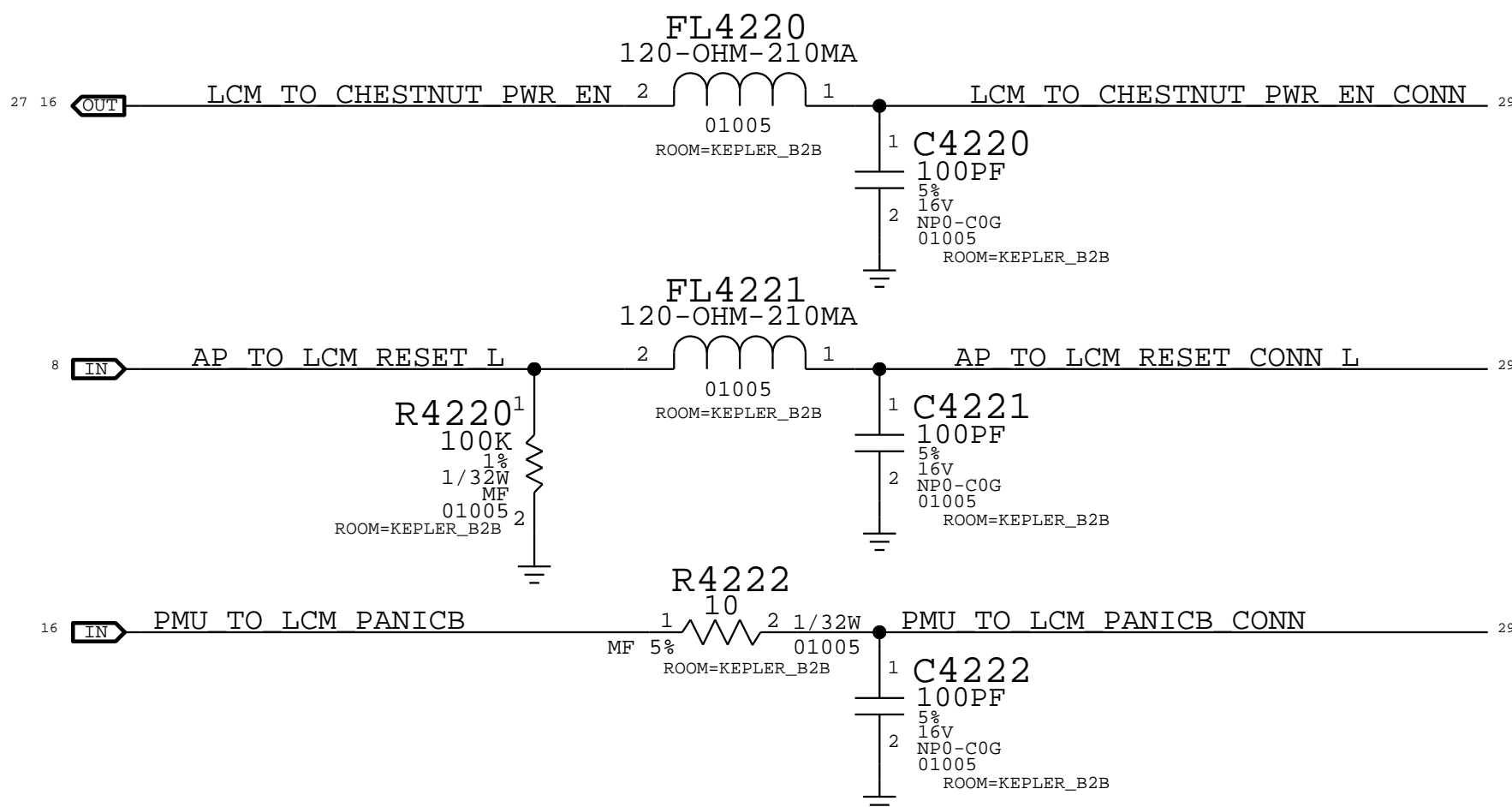
DISPLAY POWER



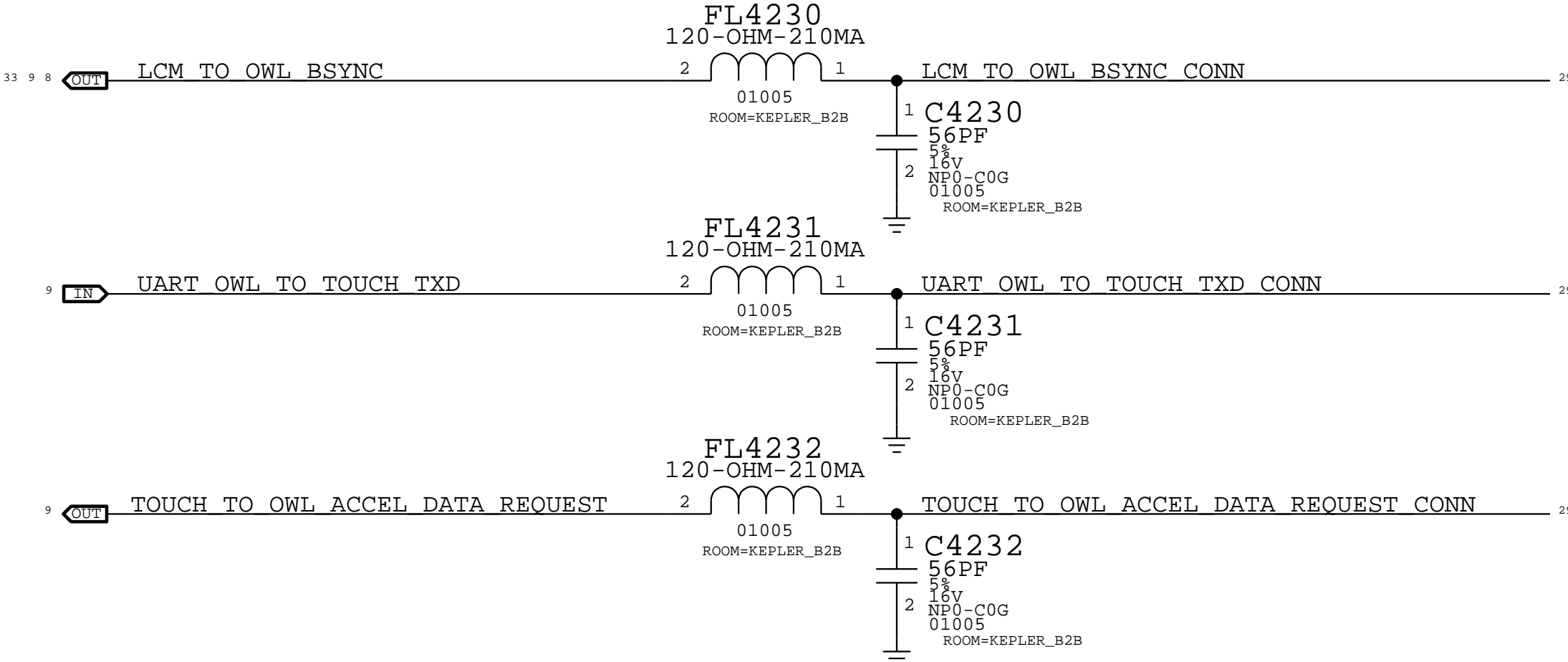
DISPLAY EEPROM I2C



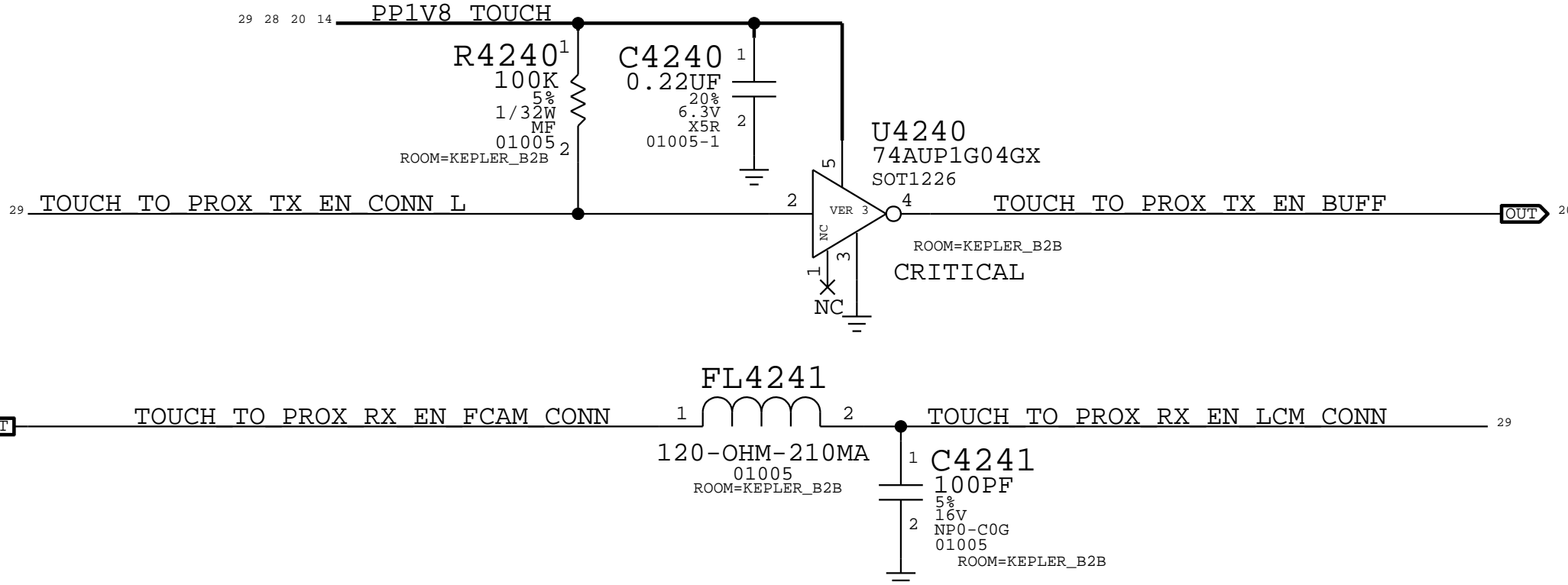
DISPLAY CONTROL SIGNALS



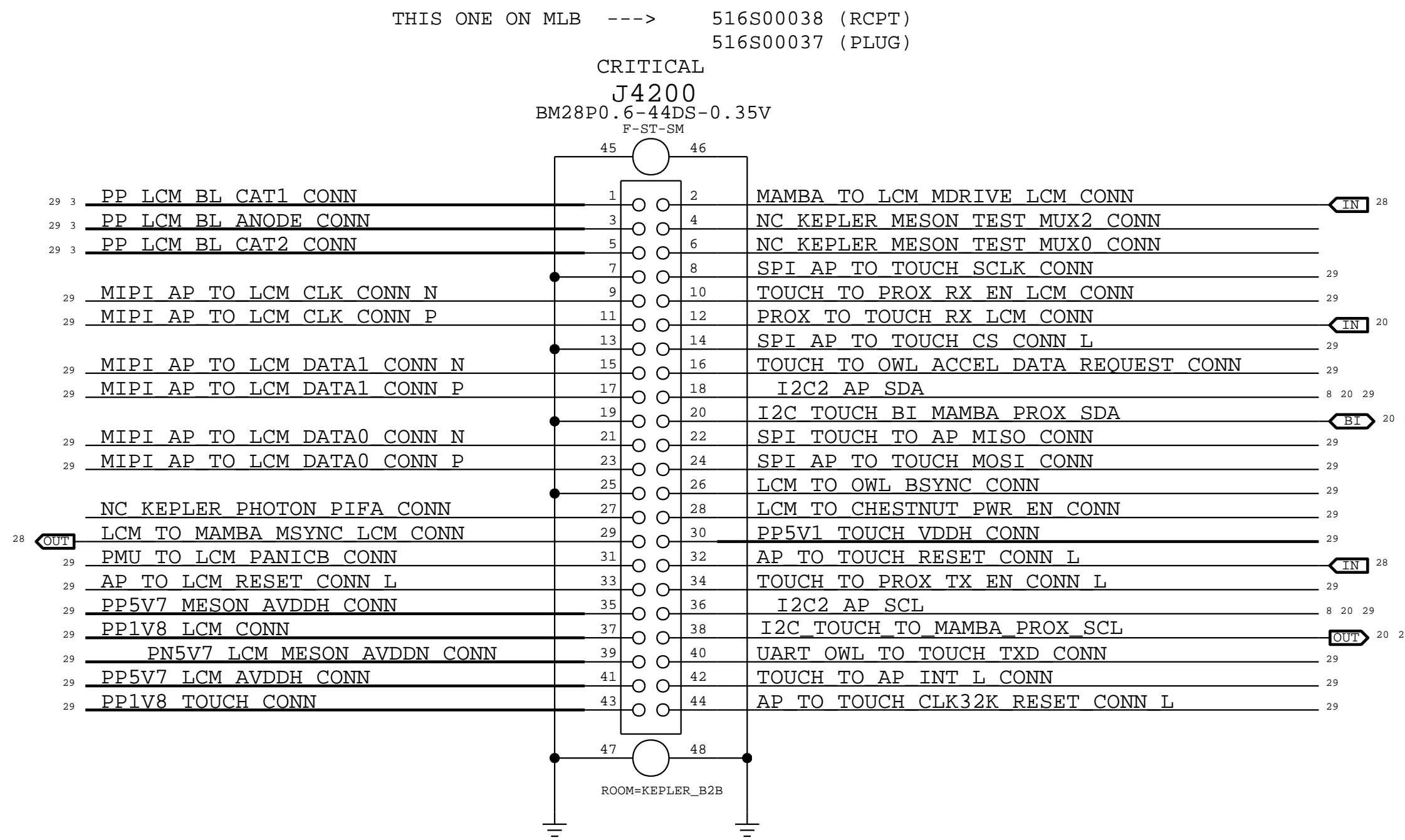
OWL TO TOUCH INTERFACE



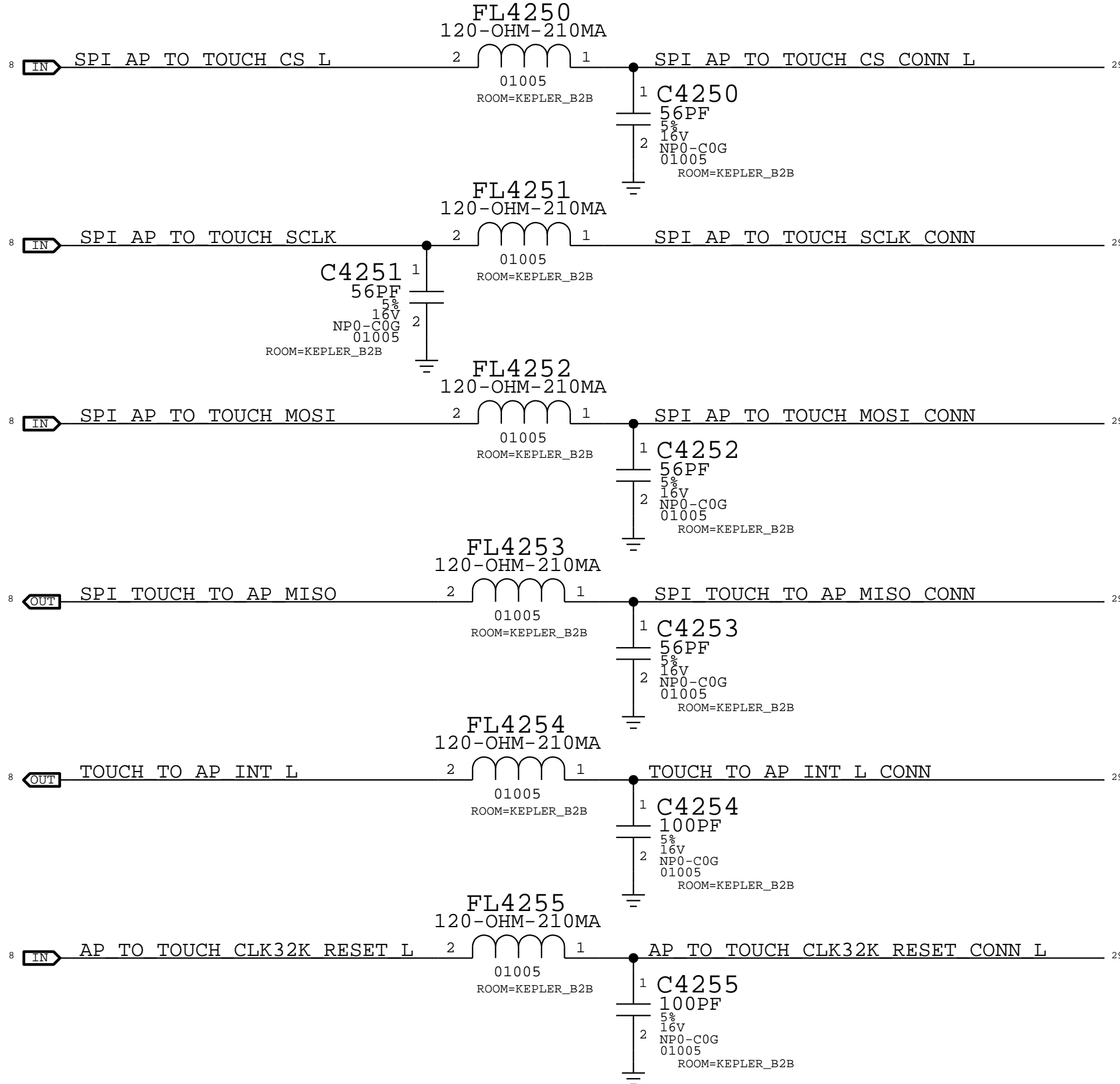
PROX TO TOUCH INTERFACE




DISPLAY CONNECTOR



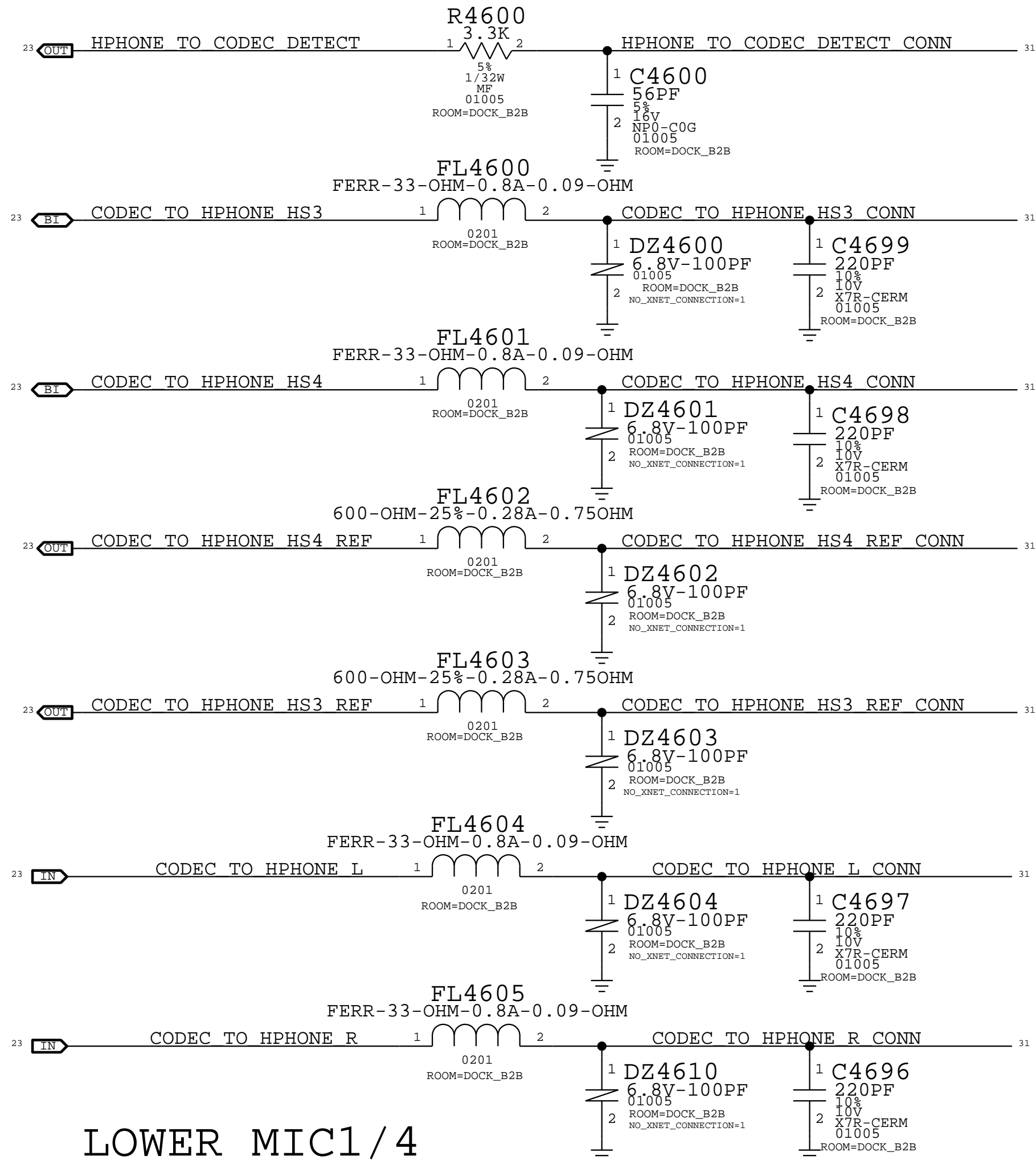
AP TO TOUCH INTERFACE



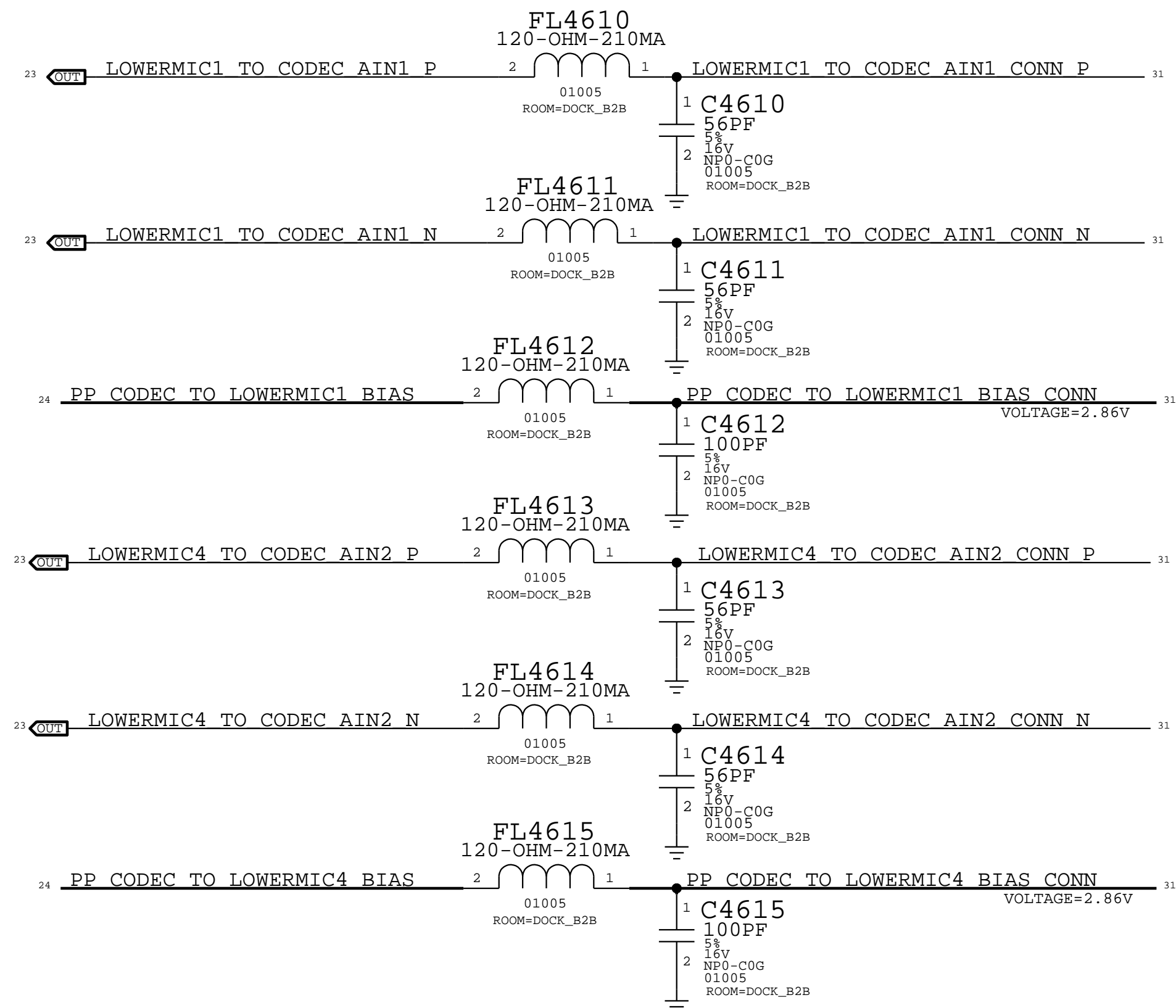
SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
DISPLAY:KEPLER B2B			
 Apple Inc.		DRAWING NUMBER	
		051-1902	
		SITE	
		D	
NOTICE OF PROPRIETARY PROPERTY:		REVISION	
		A.0.0	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN 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	
		42 OF 49	
		SHEET	
		29 OF 59	

DOCK FLEX CONNECTOR

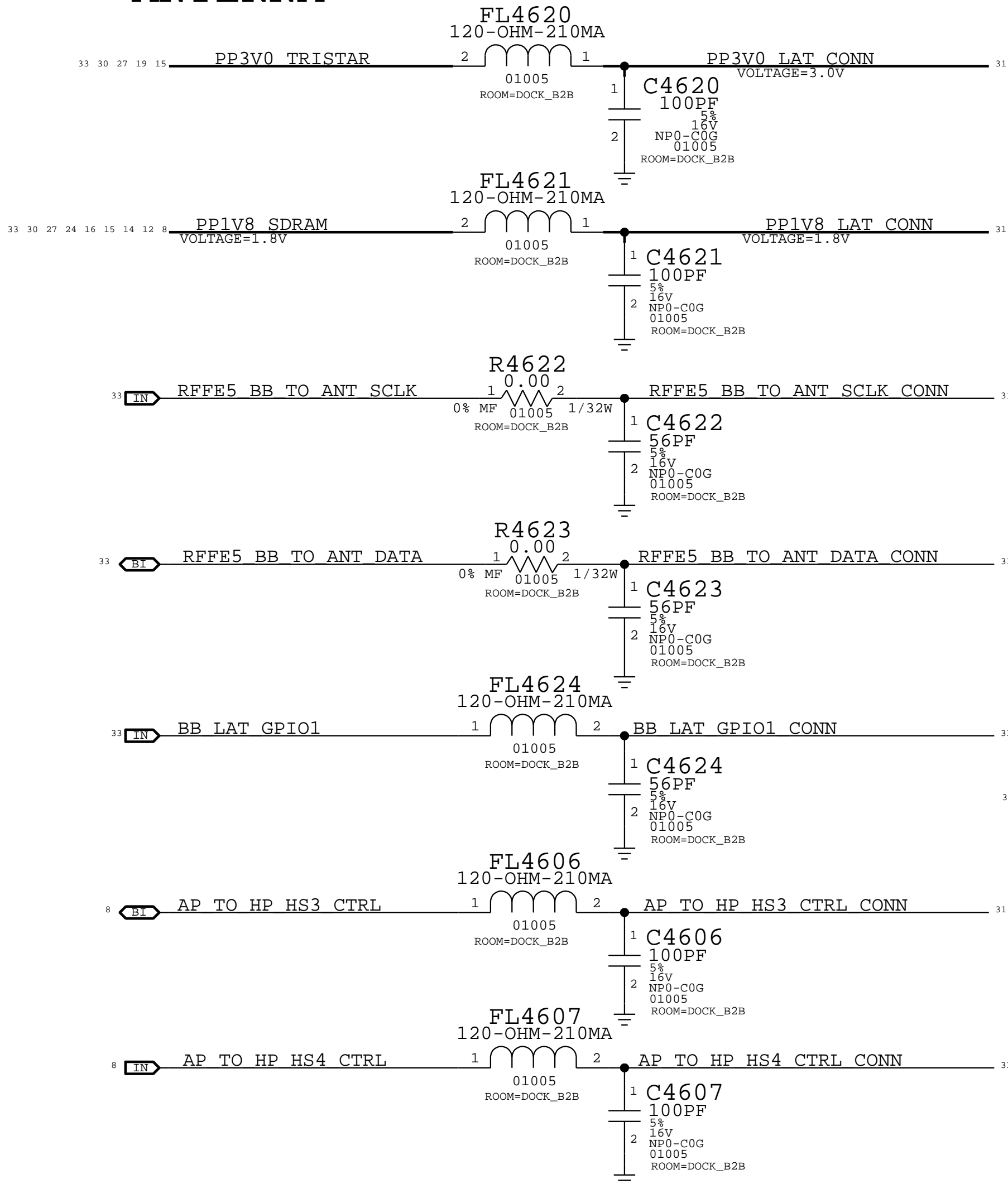
AUDIO JACK



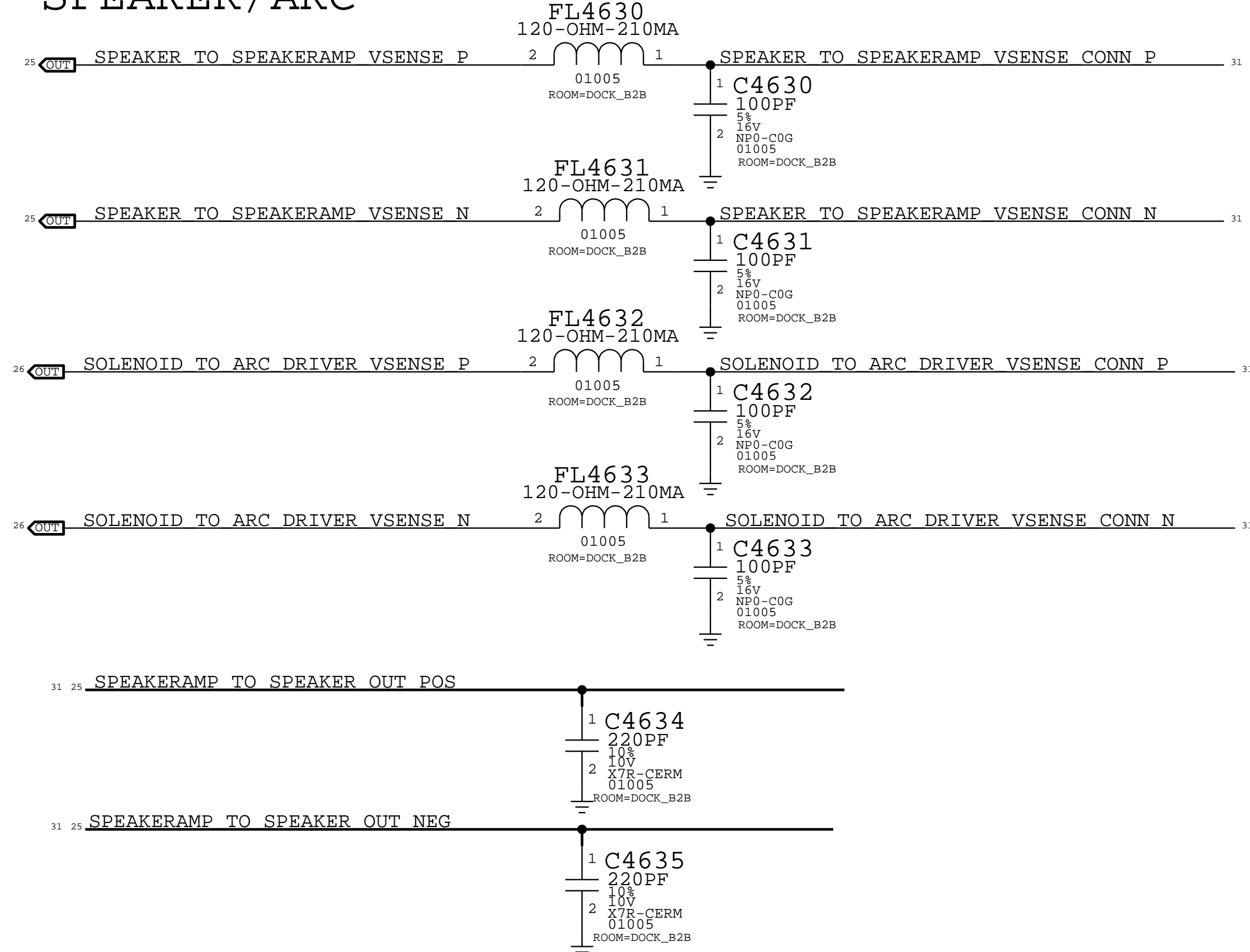
LOWER MIC1/4



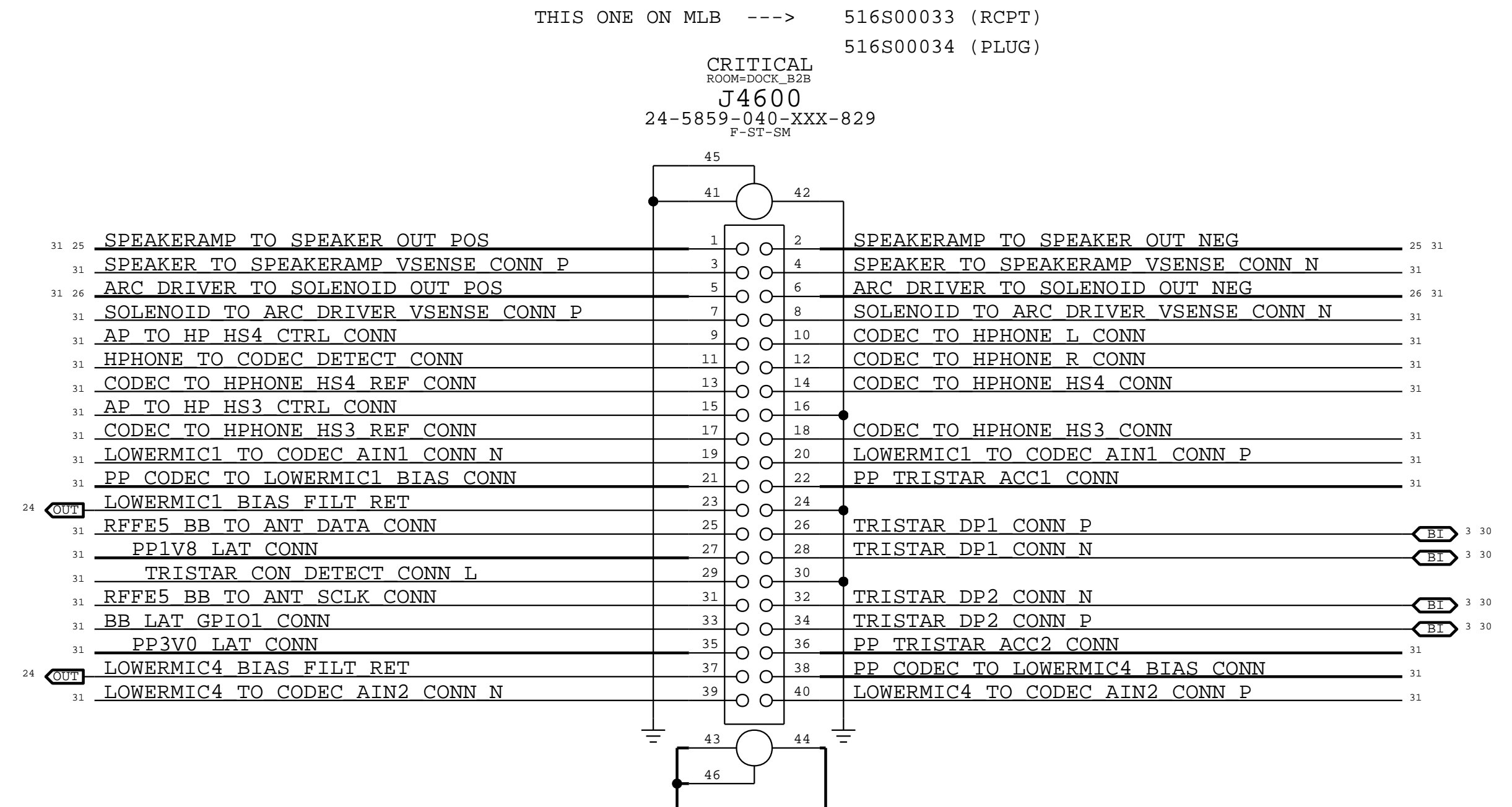
ANTENNA



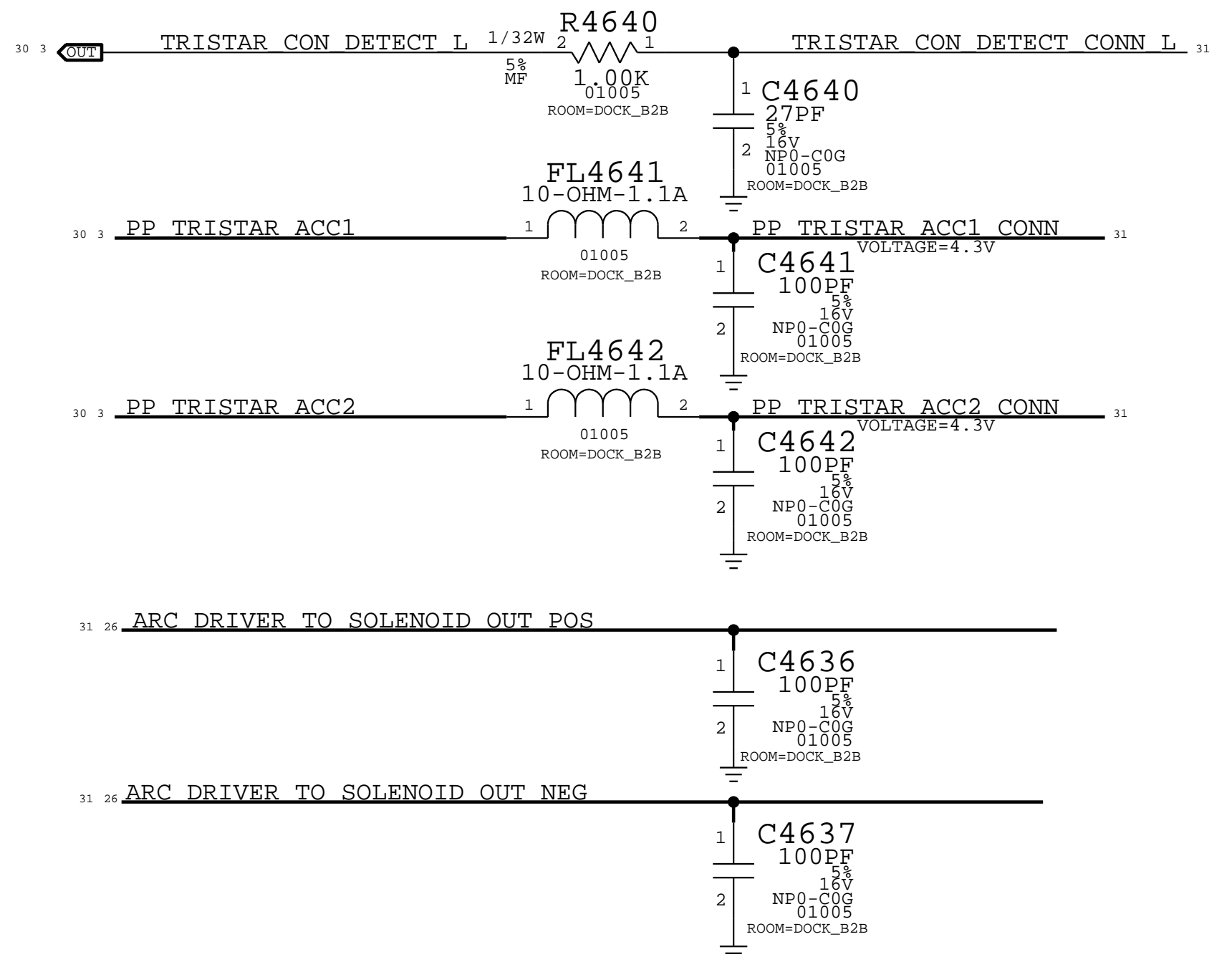
SPEAKER/ARC




DOCK FLEX CONNECTOR



TRISTAR

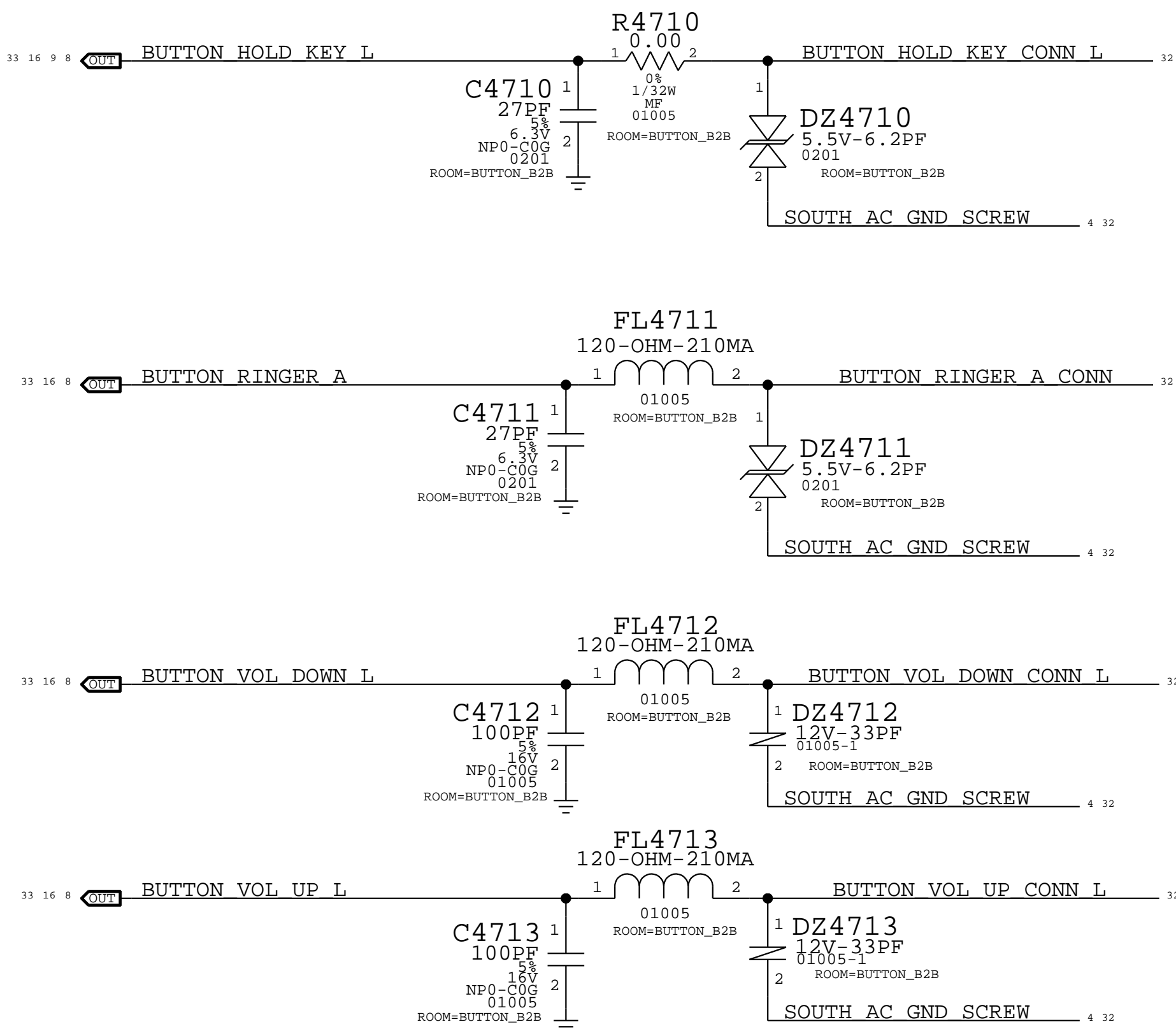
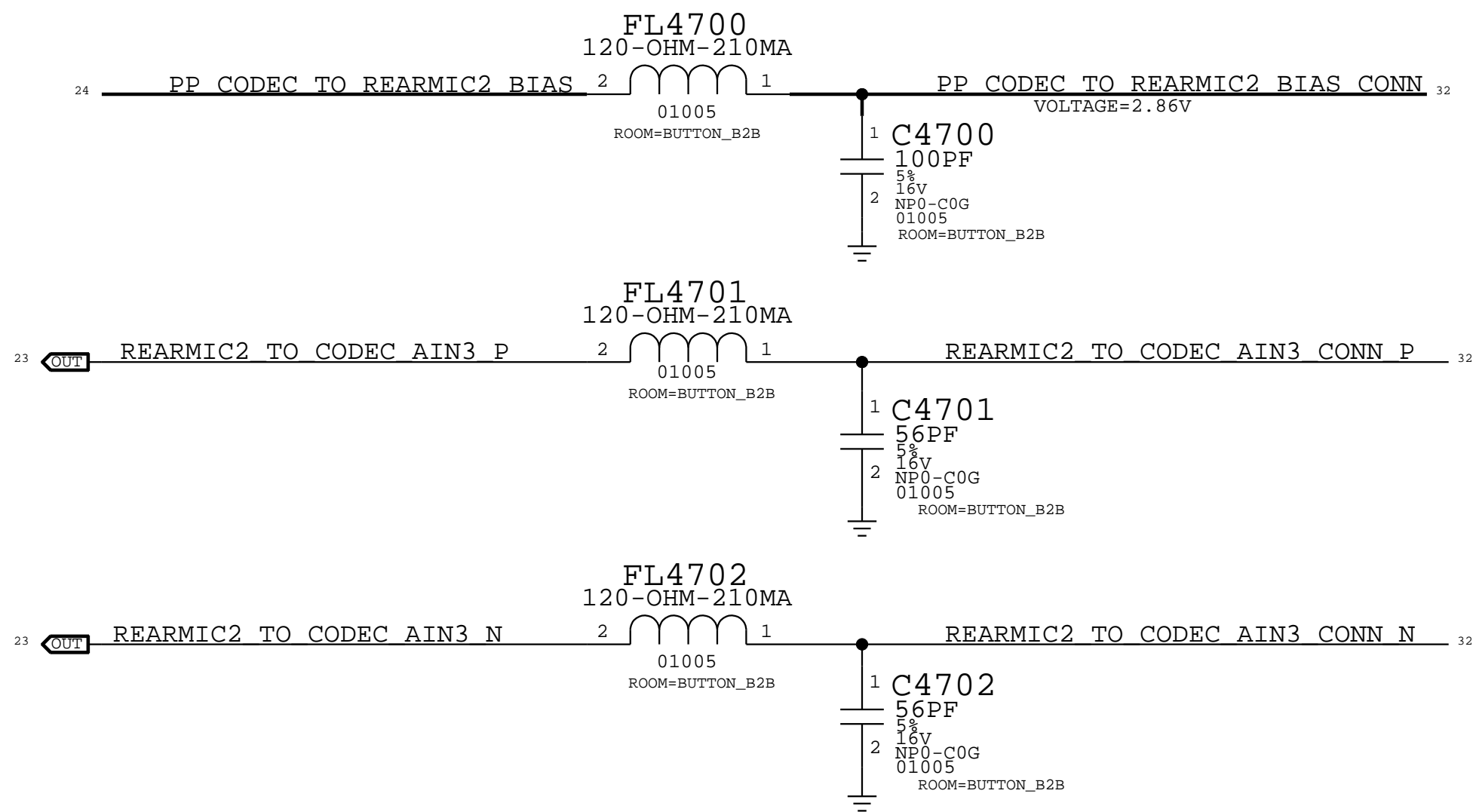


SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
I/O:DOCK FLEX B2B			
 Apple Inc.		DRAWING NUMBER	051-1902
		REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH	
		PAGE	46 OF 49
		SHEET	31 OF 59

8 7 6 5 4 3 2 1

BUTTON FLEX

MIC2
ANC REF MIC

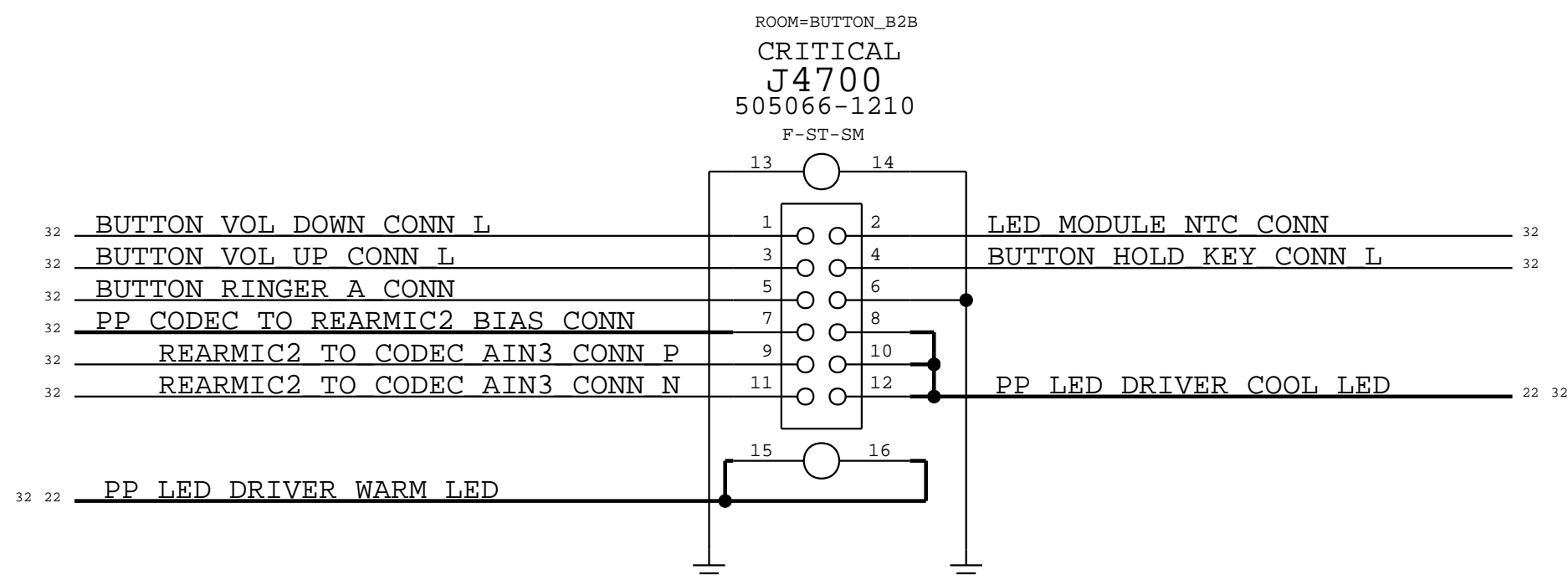


BUTTONS:
HOLD
RINGER
VOL UP/DOWN

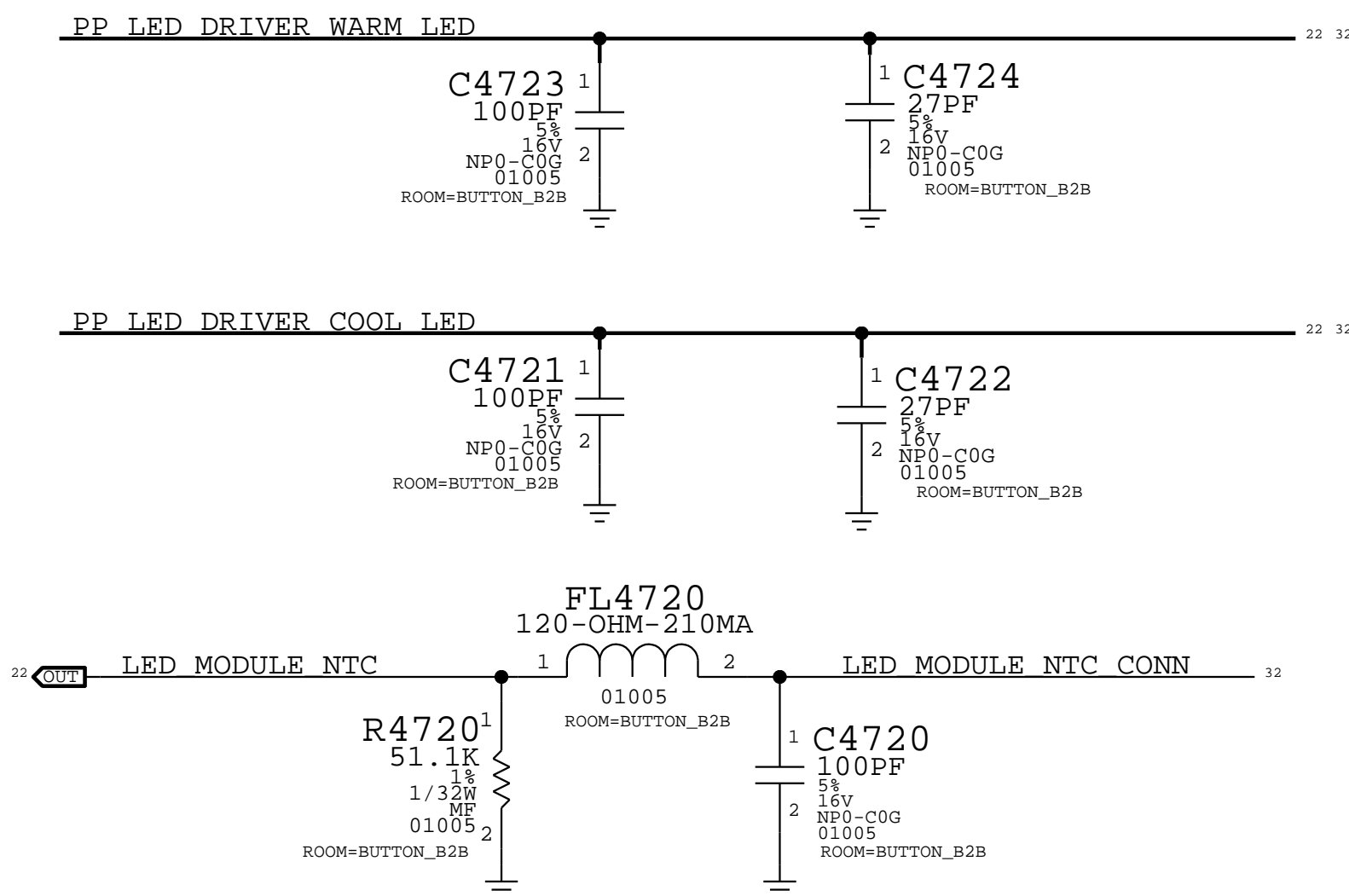
8 7 6 5 4 3 2 1


BUTTON FLEX CONNECTOR

THIS ONE ON MLB ---> 516S00058 (RCPT)
516S00059 (PLUG)



STROBE:
WARM LED
COOL LED
MODULE NTC



SYNC_MASTER=N/A		SYNC_DATE=N/A	
PAGE TITLE			
I/O:BUTTON FLEX B2B			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-1902		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		
	A.0.0		
	BRANCH		
	PAGE		
	47 OF 49		
	SHEET		
	32 OF 59		

BASEBAND, WLAN, BT & STOCKHOLM

D

C

B

A

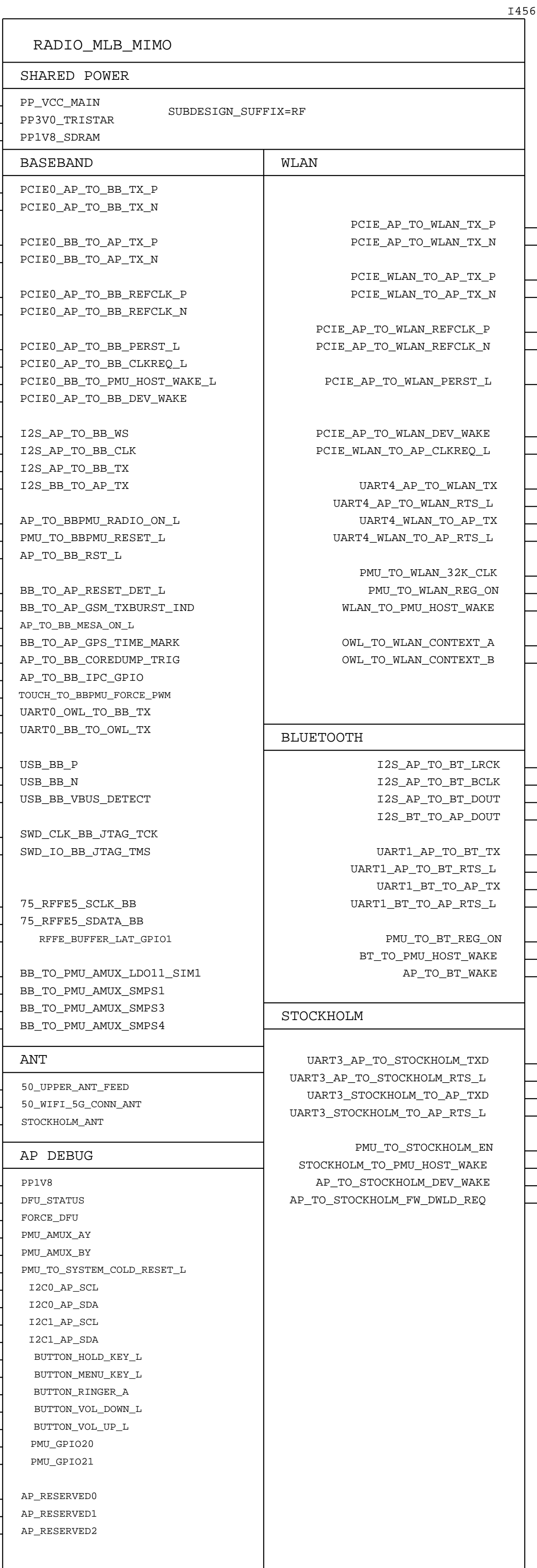
D


C

B

A

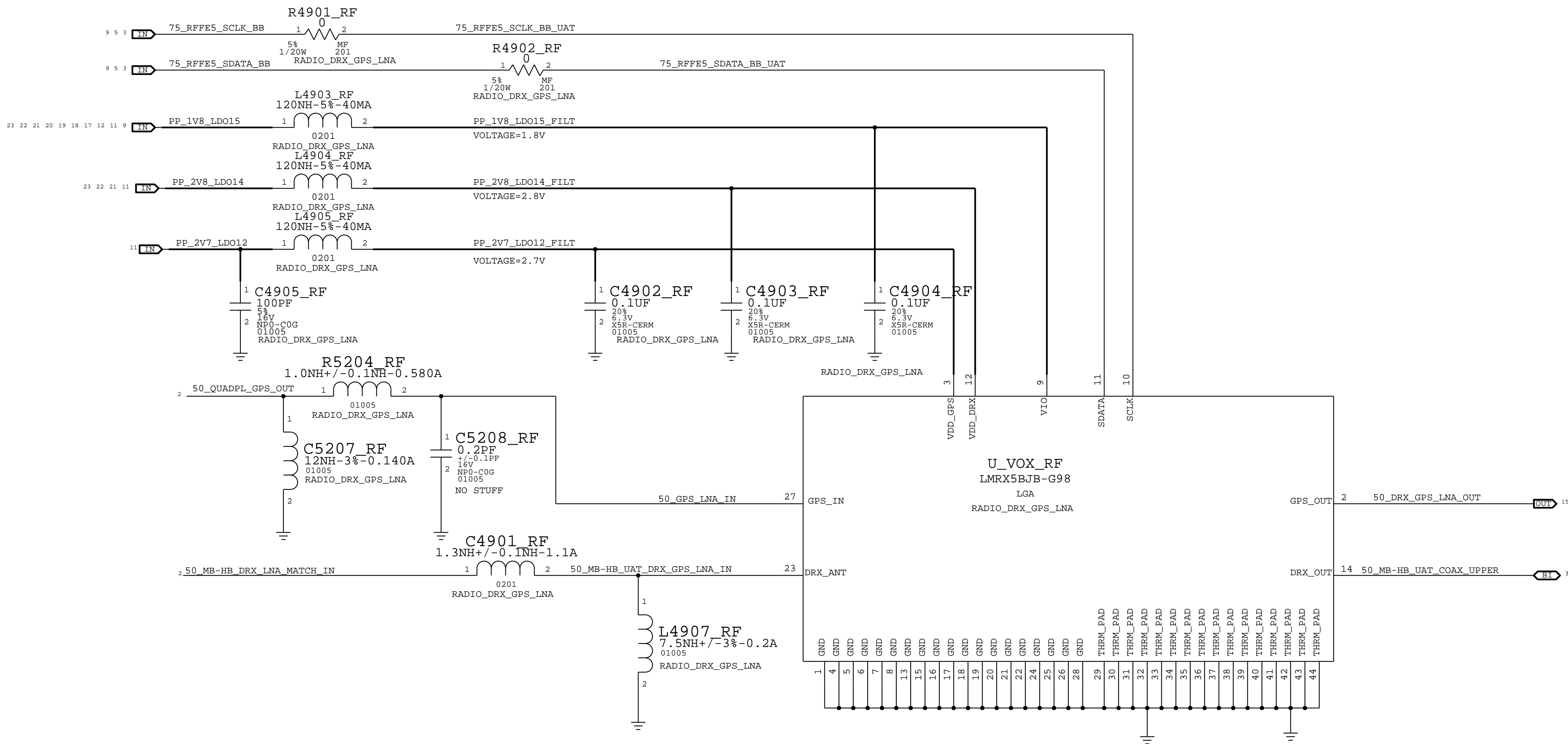
MIS-NAMED NET. GPS_TIME_MARK ACTUALLY GOES FROM AP TO BB.



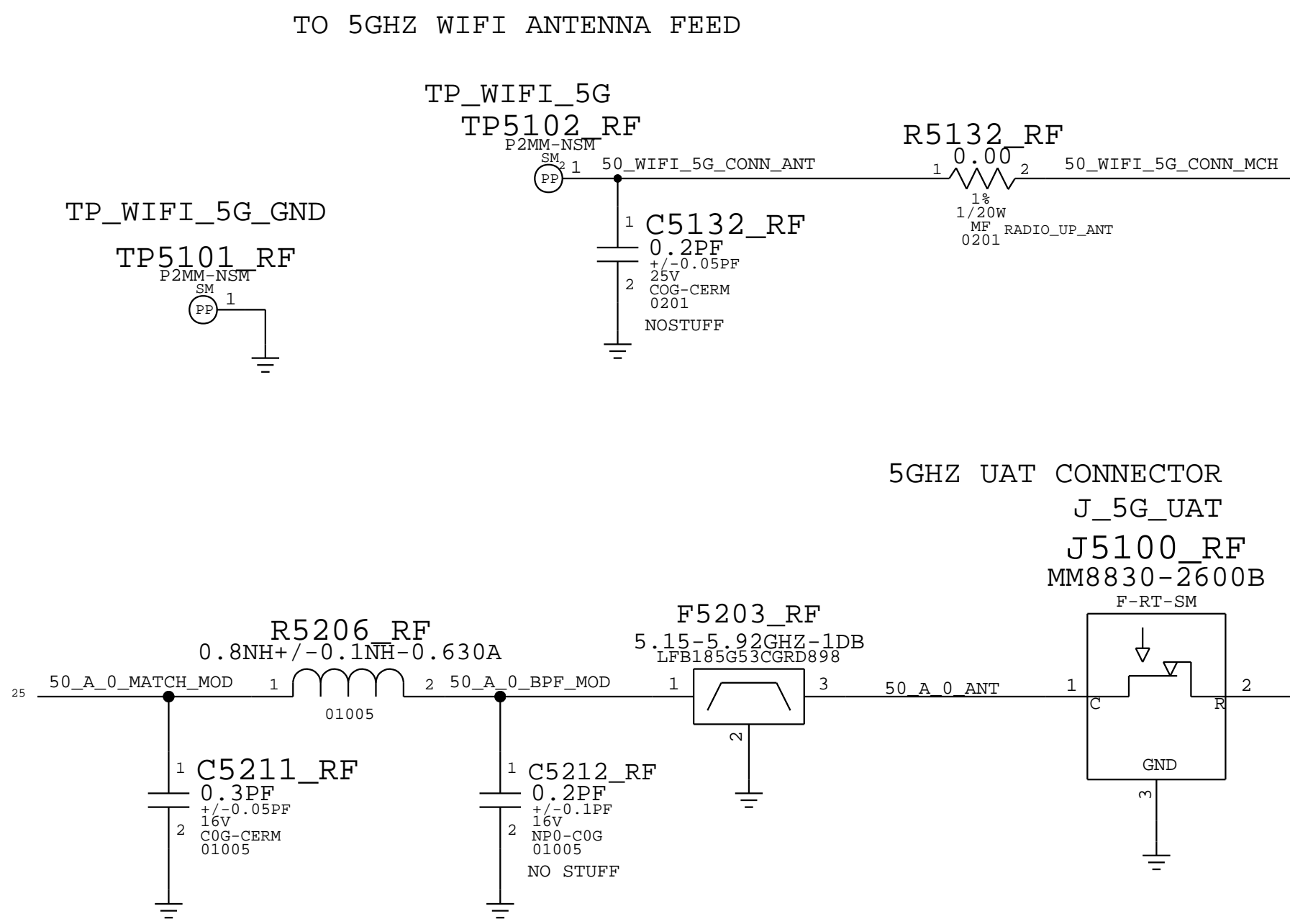
PAGE TITLE		
BASEBAND:RADIO SYMBOL		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH
PAGE		49 OF 49
SHEET		33 OF 59

DIVERSITY LNA

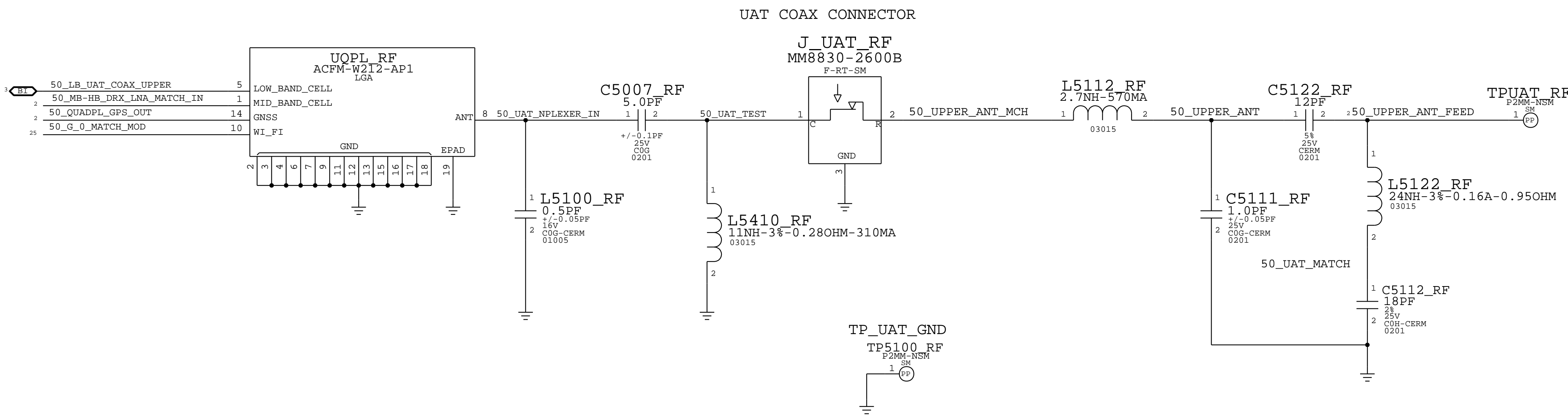
N71-SPECIFIC RADIO PAGE 2



WIFI ANT FEED



UAT ANT FEED



ANT

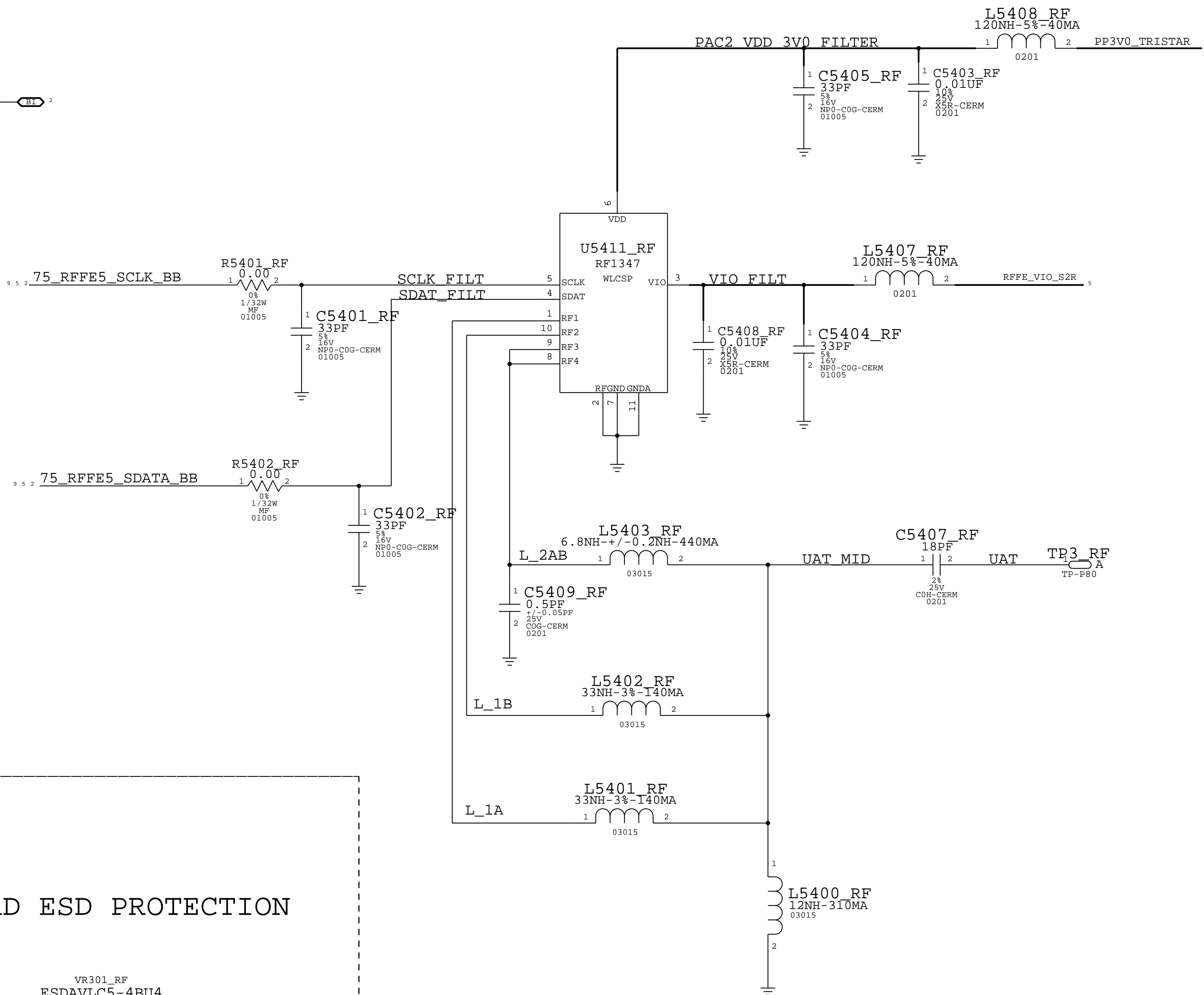
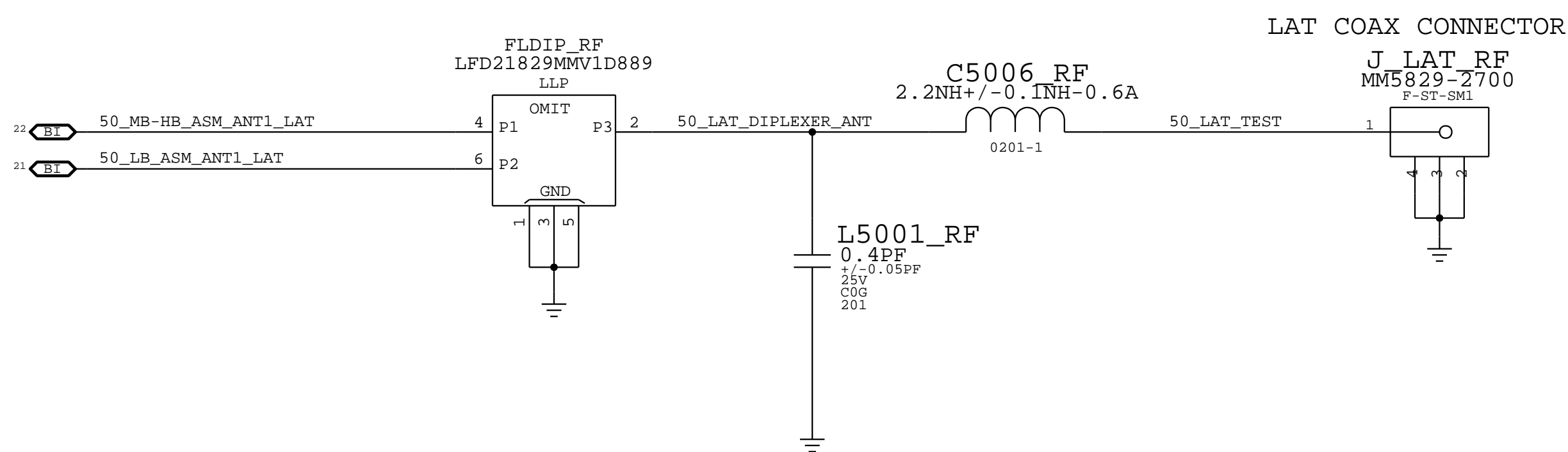
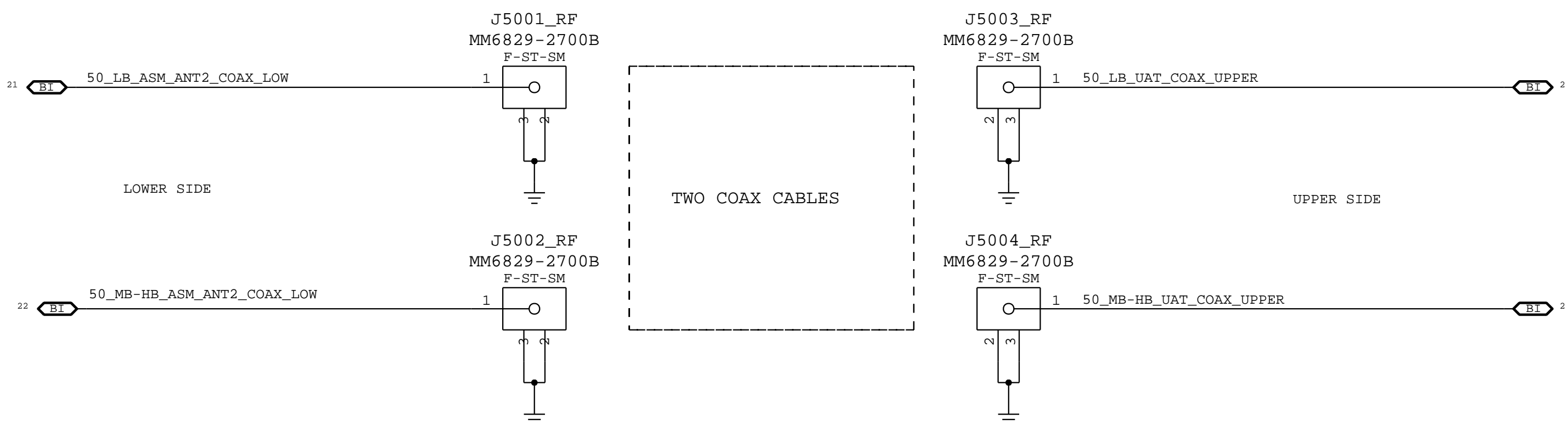
50_UPPER ANT FEED
50_WIFI_5G_CONN ANT

PAGE TITLE		
ELNA & UAT ANT FEED		
Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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	2 OF 51
	SHEET	35 OF 59

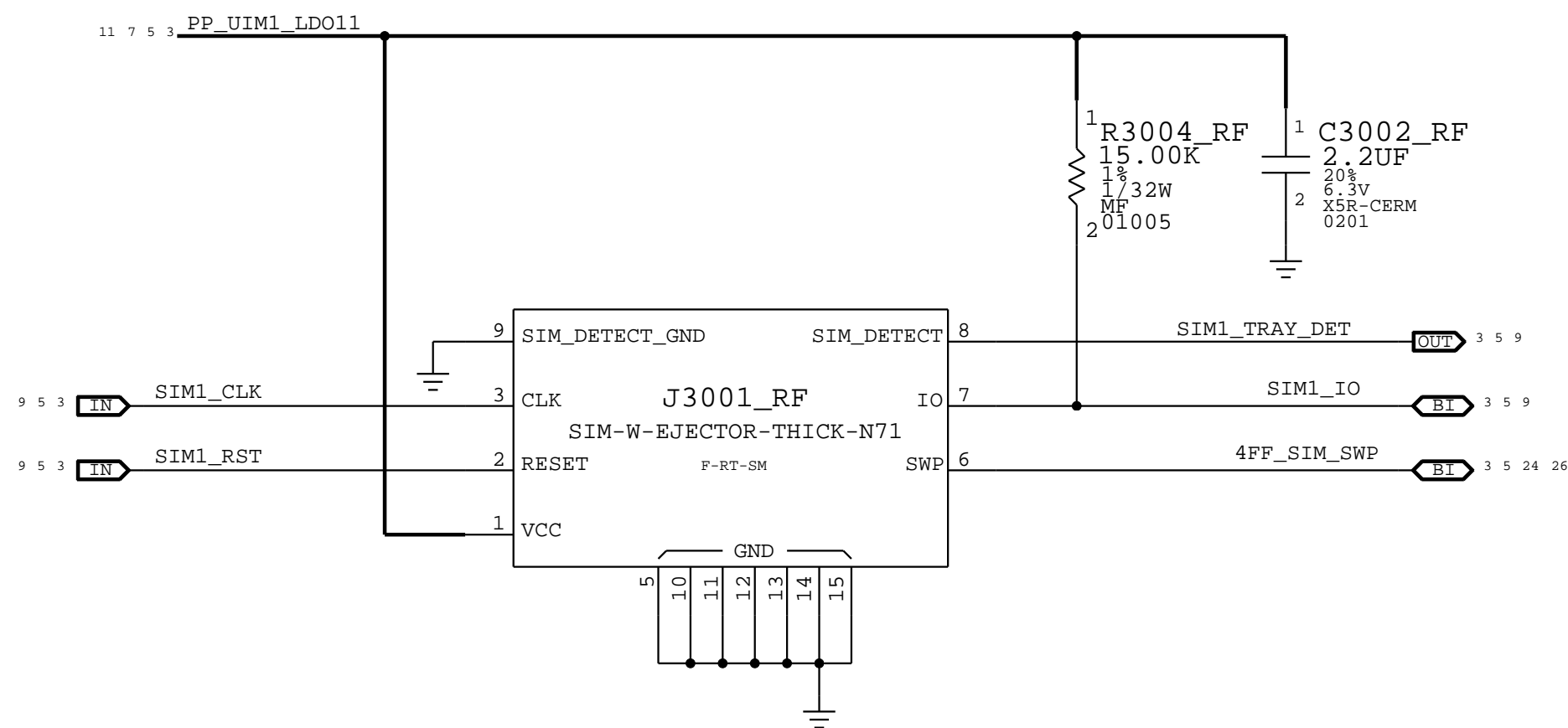
N71-SPECIFIC RADIO PAGE 3

ANTENNA FEEDS AND CONNECTORS

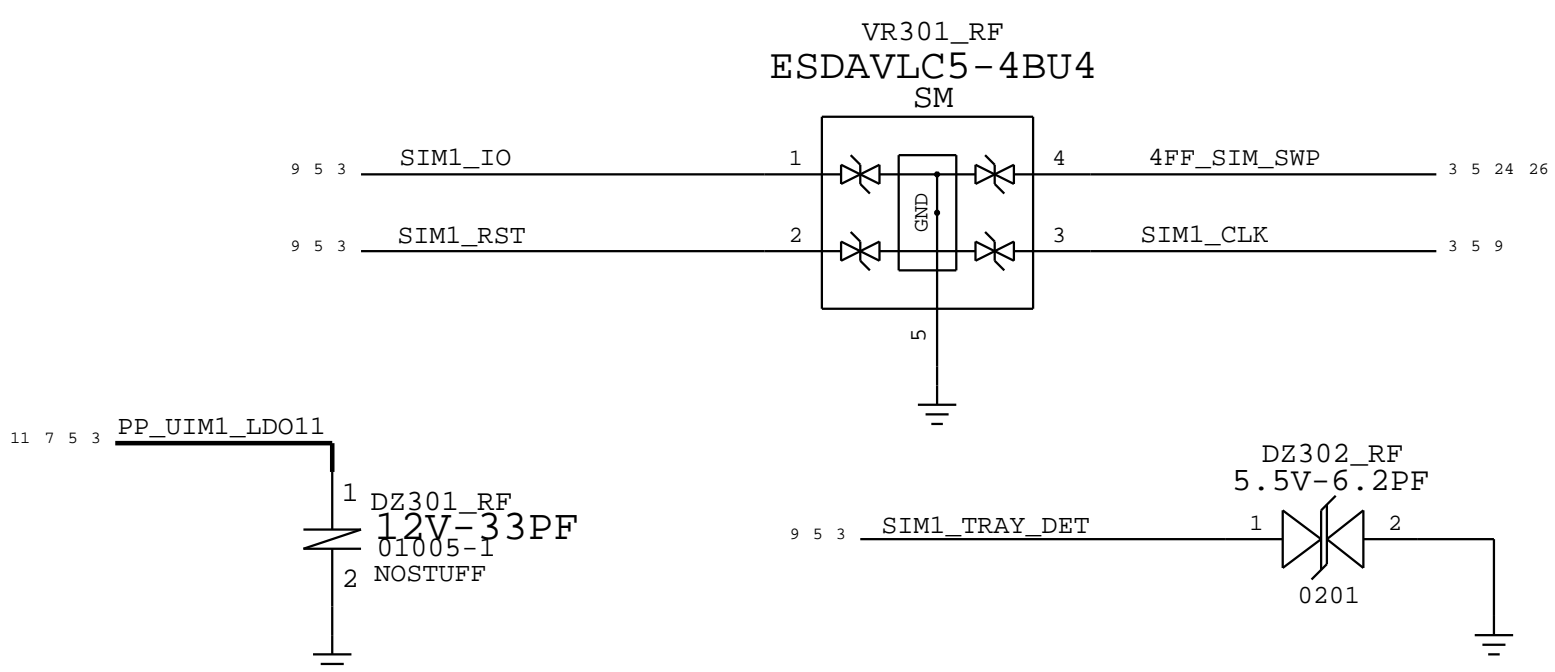
UAT TUNER



SIM CARD CONNECTOR



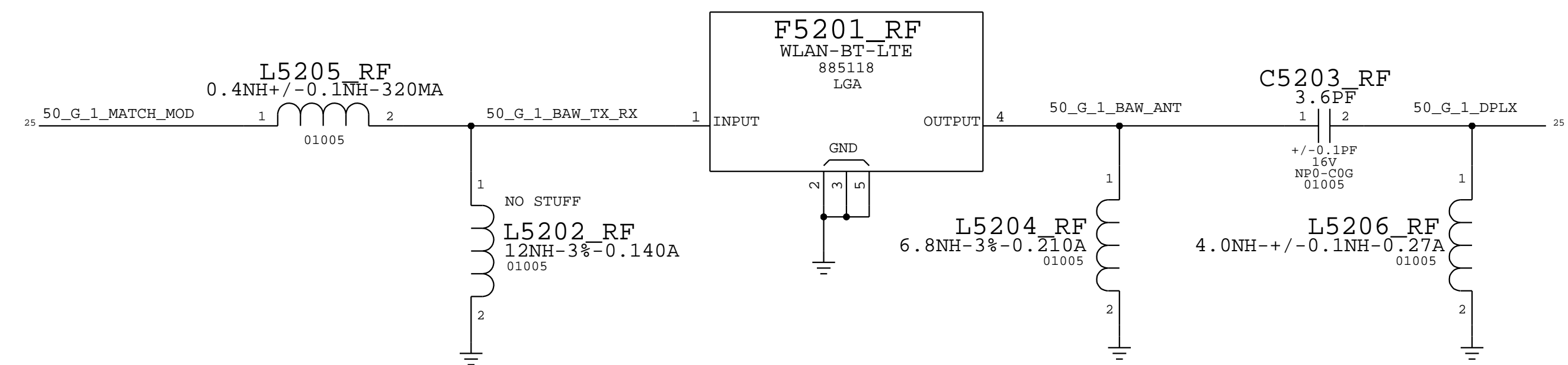
SIM CARD ESD PROTECTION




PAGE TITLE		
FE: ANT CONNECTORS AND UAT TUNER		
	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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 51
		SHEET 36 OF 59

N71-SPECIFIC RADIO PAGE 4

WLAN LAT 2.4GHZ BAW BPF



PAGE TITLE		
WLAN LAT 2.4GHZ BAW BPF		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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	4 OF 51
	SHEET	37 OF 59

AP TO BB/WLAN/BT/SH CONNECTIONS

BASEBAND

WLAN/BT

PCIE

PMU

MLB PROBE POINTS

ANT TUNER

RFFE

STOCKHOLM

AP DEBUG


STOCKHOLM

ANT

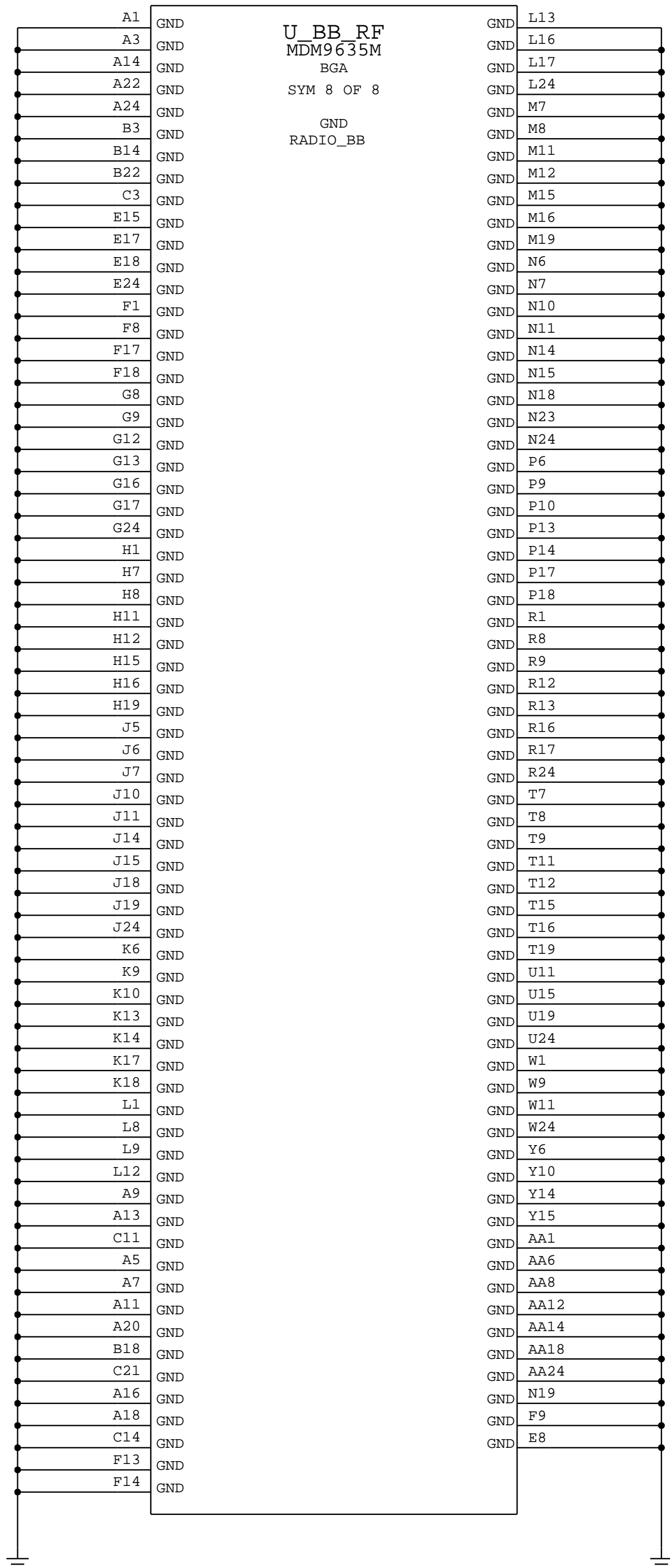
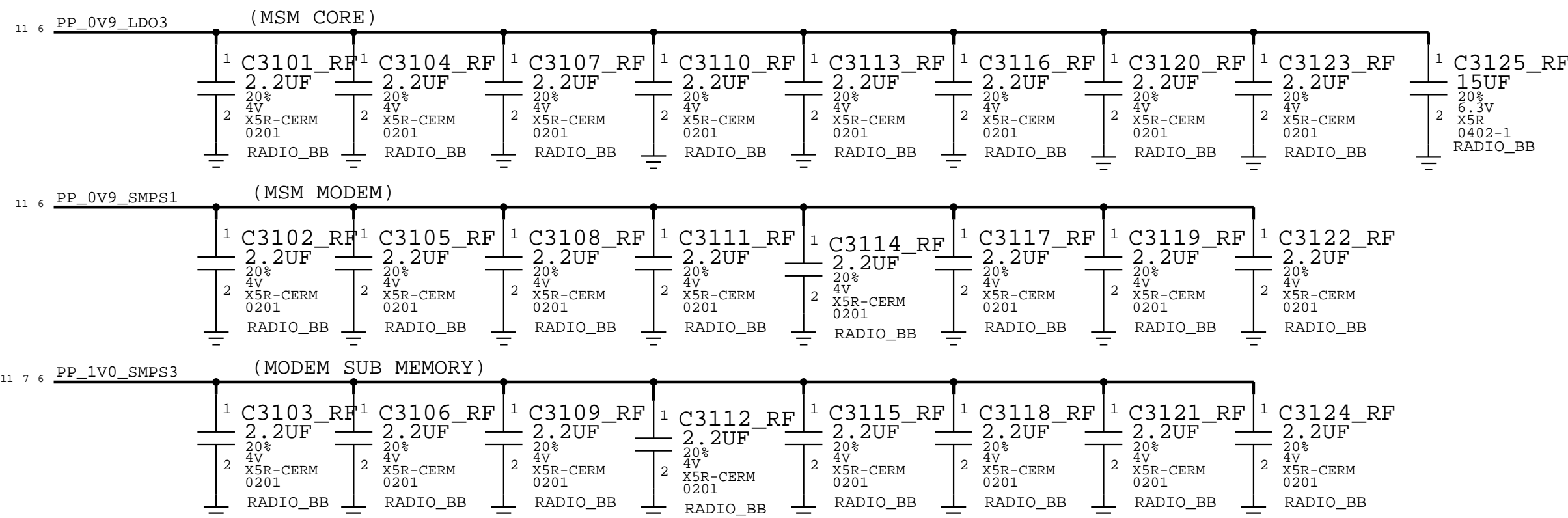
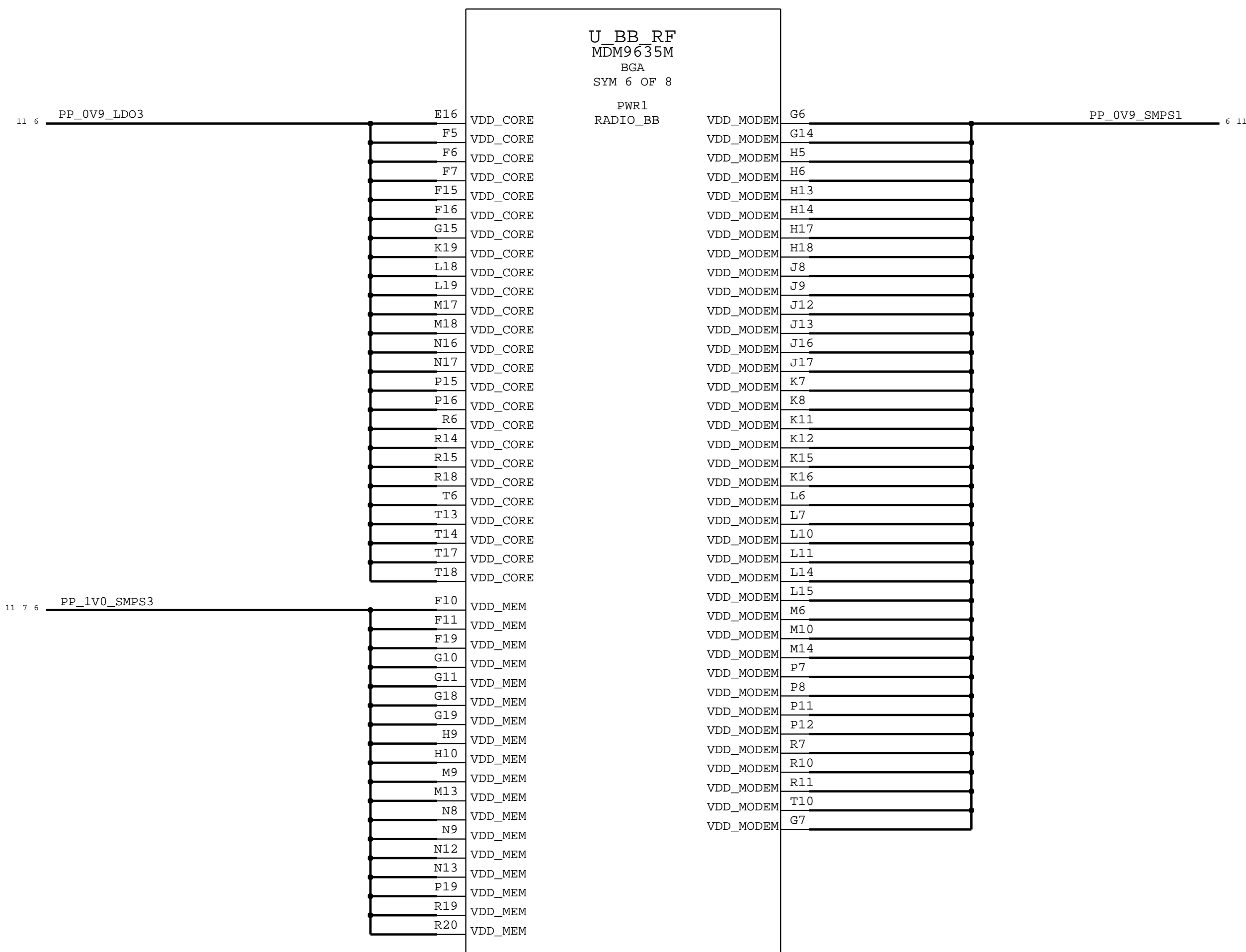
POWER

DEBUG CONNECTOR

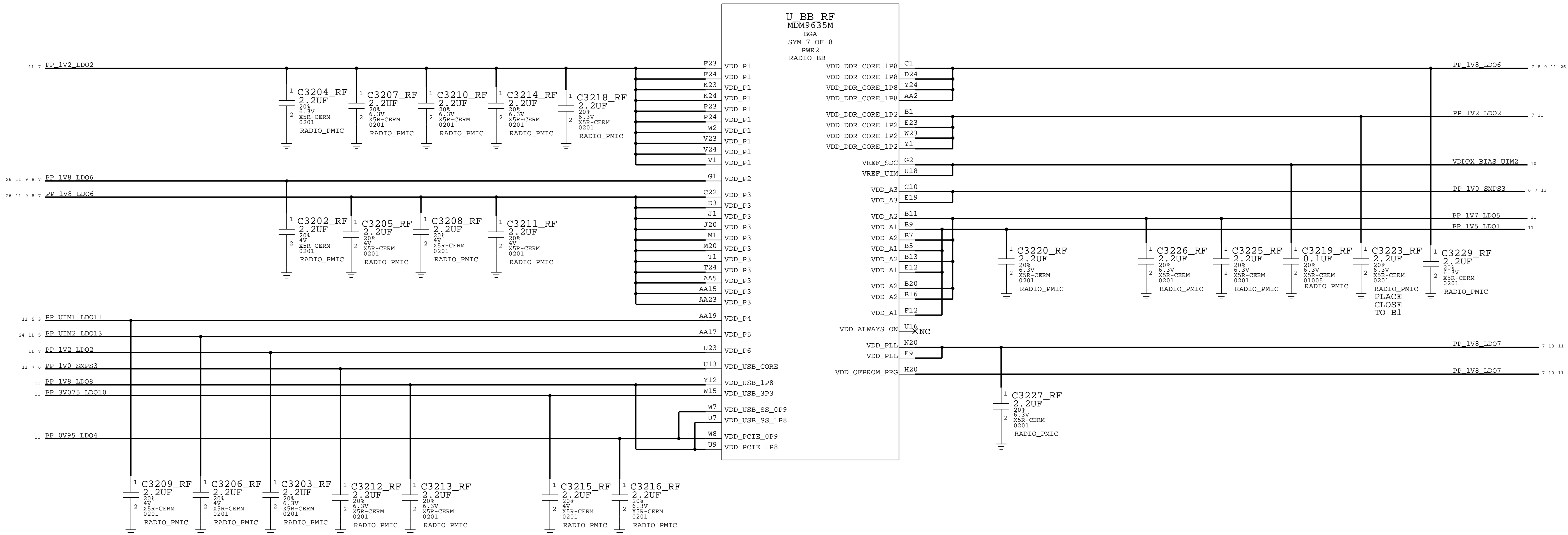
ESD
CAPS


PAGE TITLE		
DEBUG CONN & TEST POINTS		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FOREGOER 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	30 OF 51
	SHEET	38 OF 59

BASEBAND: POWER 1

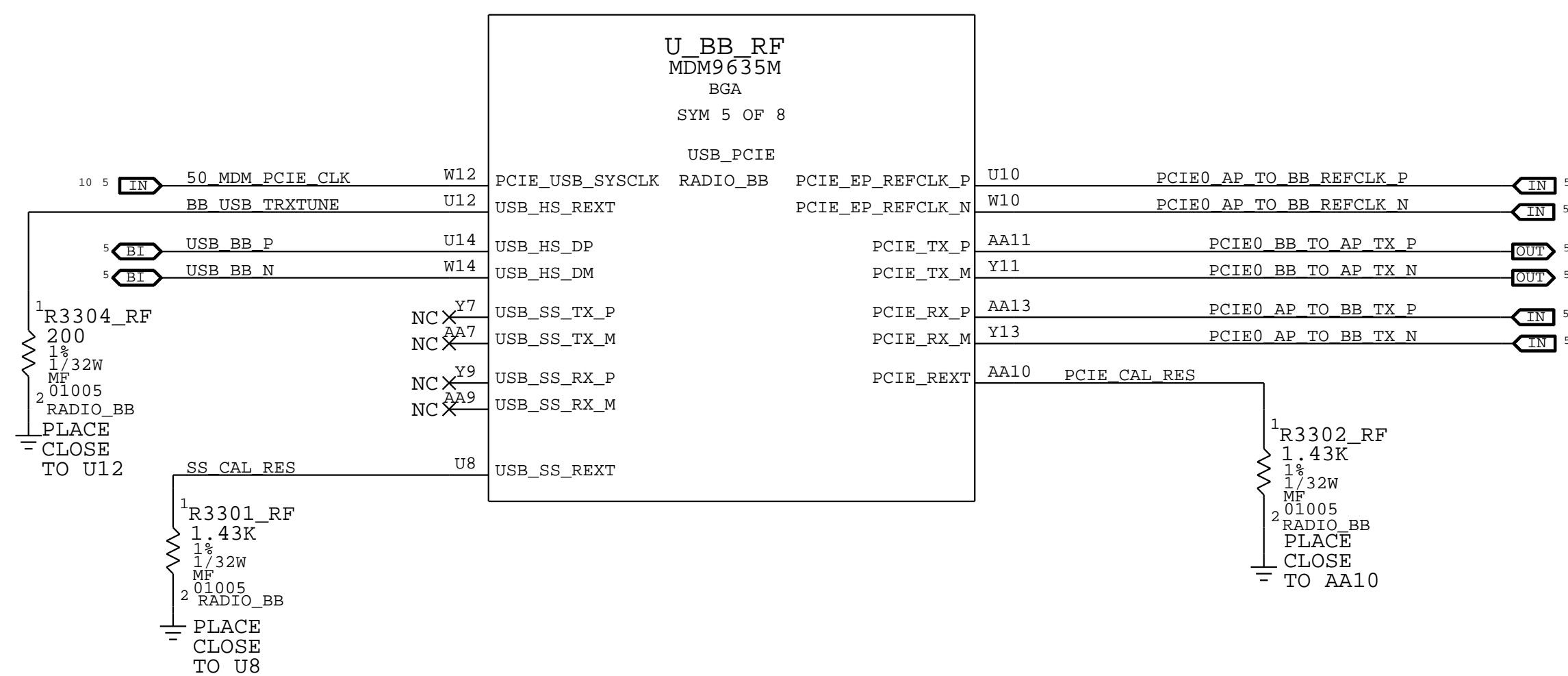
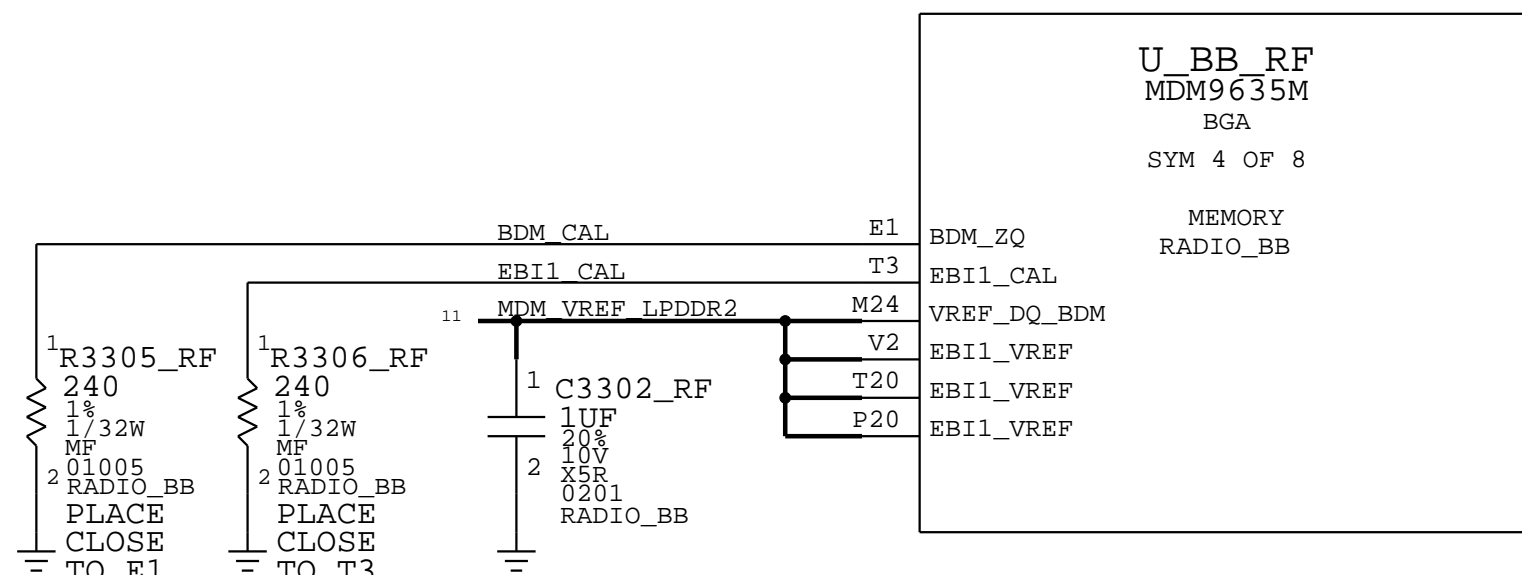


BASEBAND: POWER 2

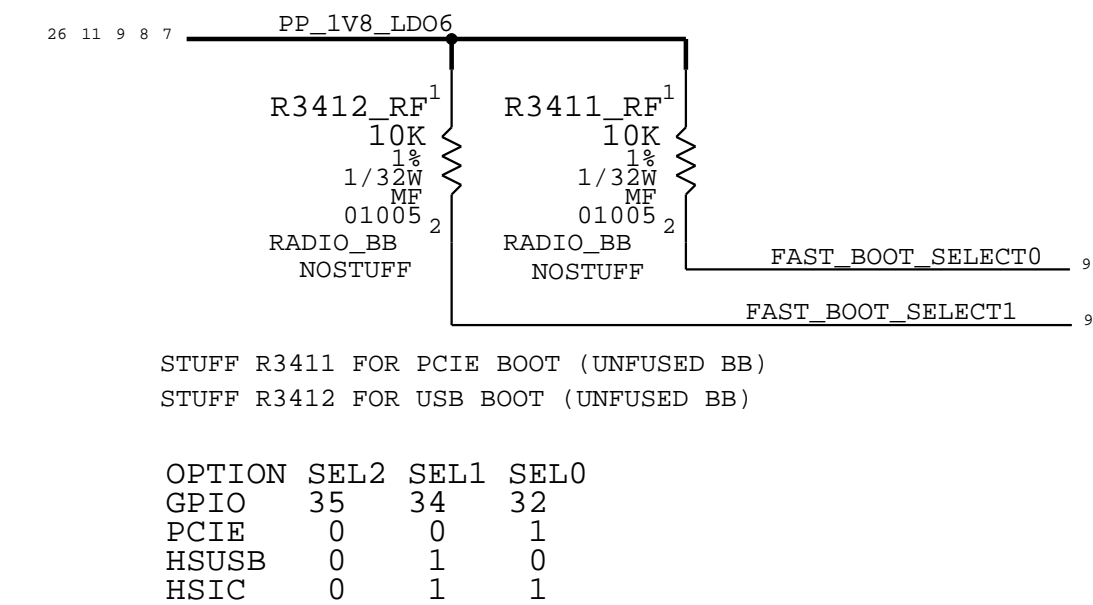


PAGE TITLE		
CELLULAR BASEBAND: POWER2		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	32 OF 51
	SHEET	40 OF 59

D

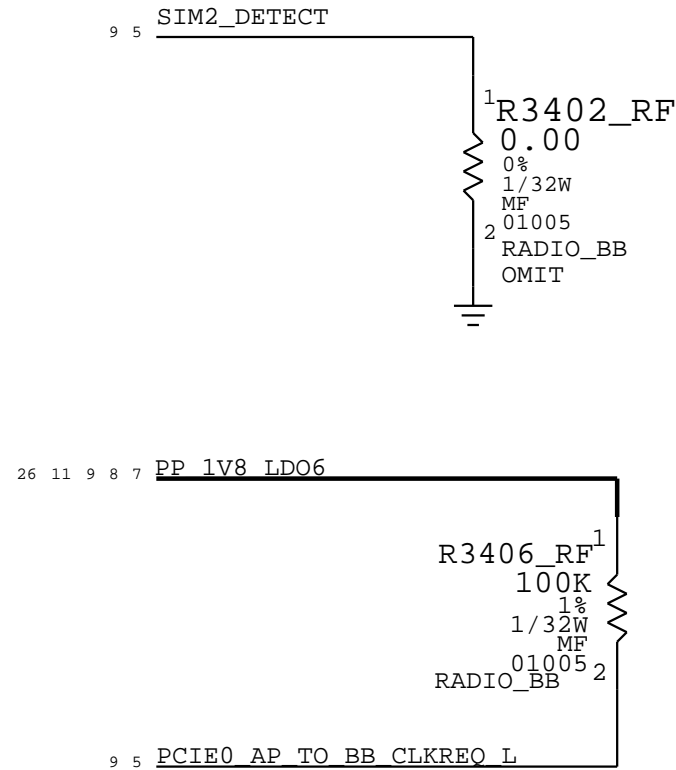
A

BASEBAND: GPIOs

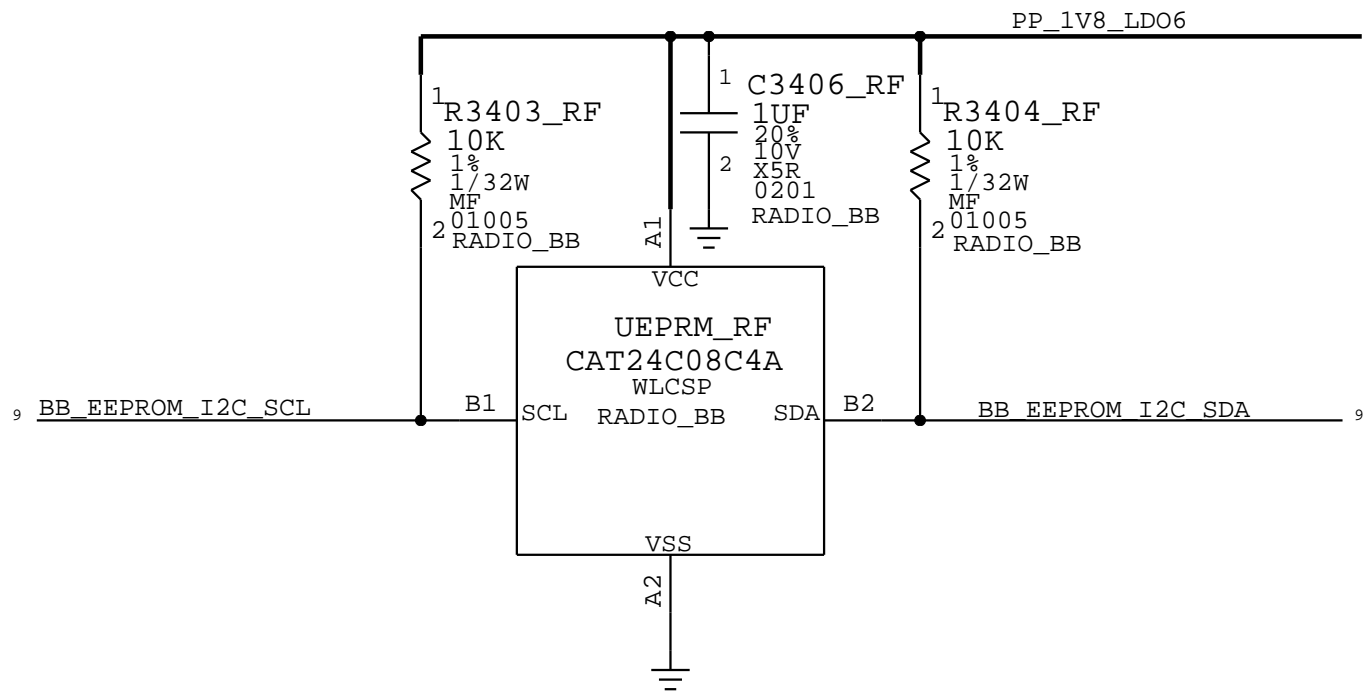


PCIE PULL-UPS TO BB RAIL

NOSTUFF R3402 WHEN VINYL PRESENT
STUFF R3402 WHEN VINYL NOT PRESENT



BB EEPROM



RFFE USAGE TABLE

RFFE1 WTR

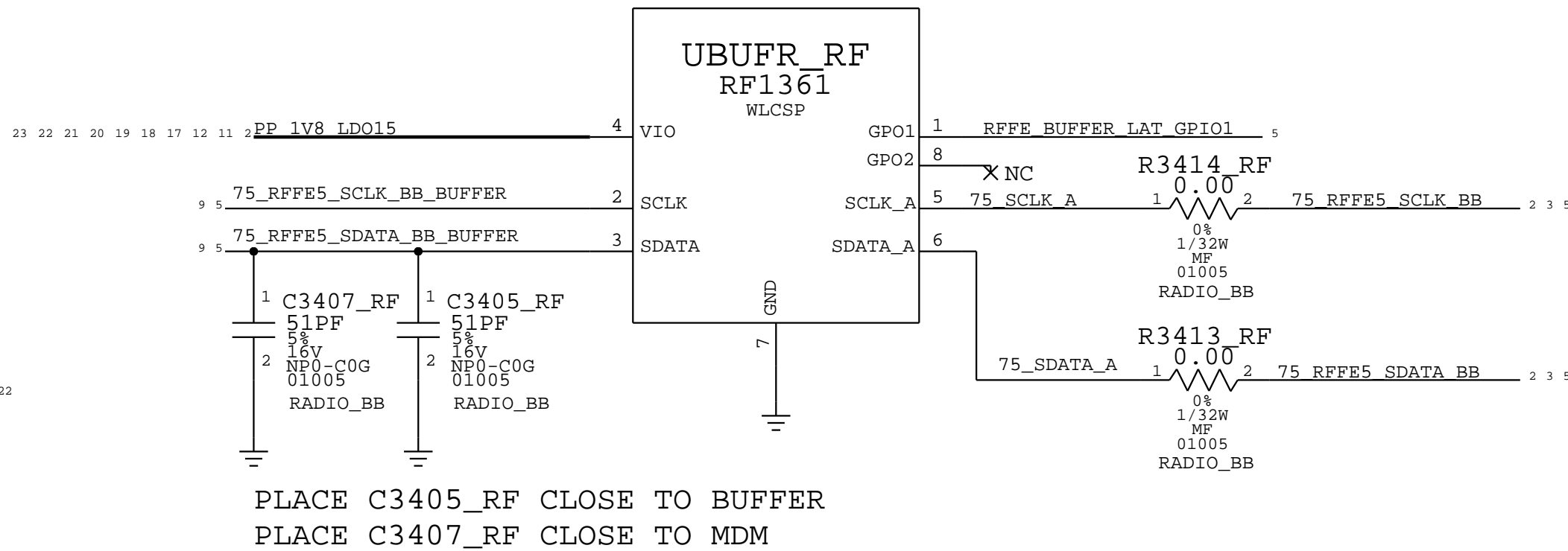
RFFE2 LB/MB/HB PAD, 2G PA, LB/MB/HB ASM

RFFE3 DIV ASM

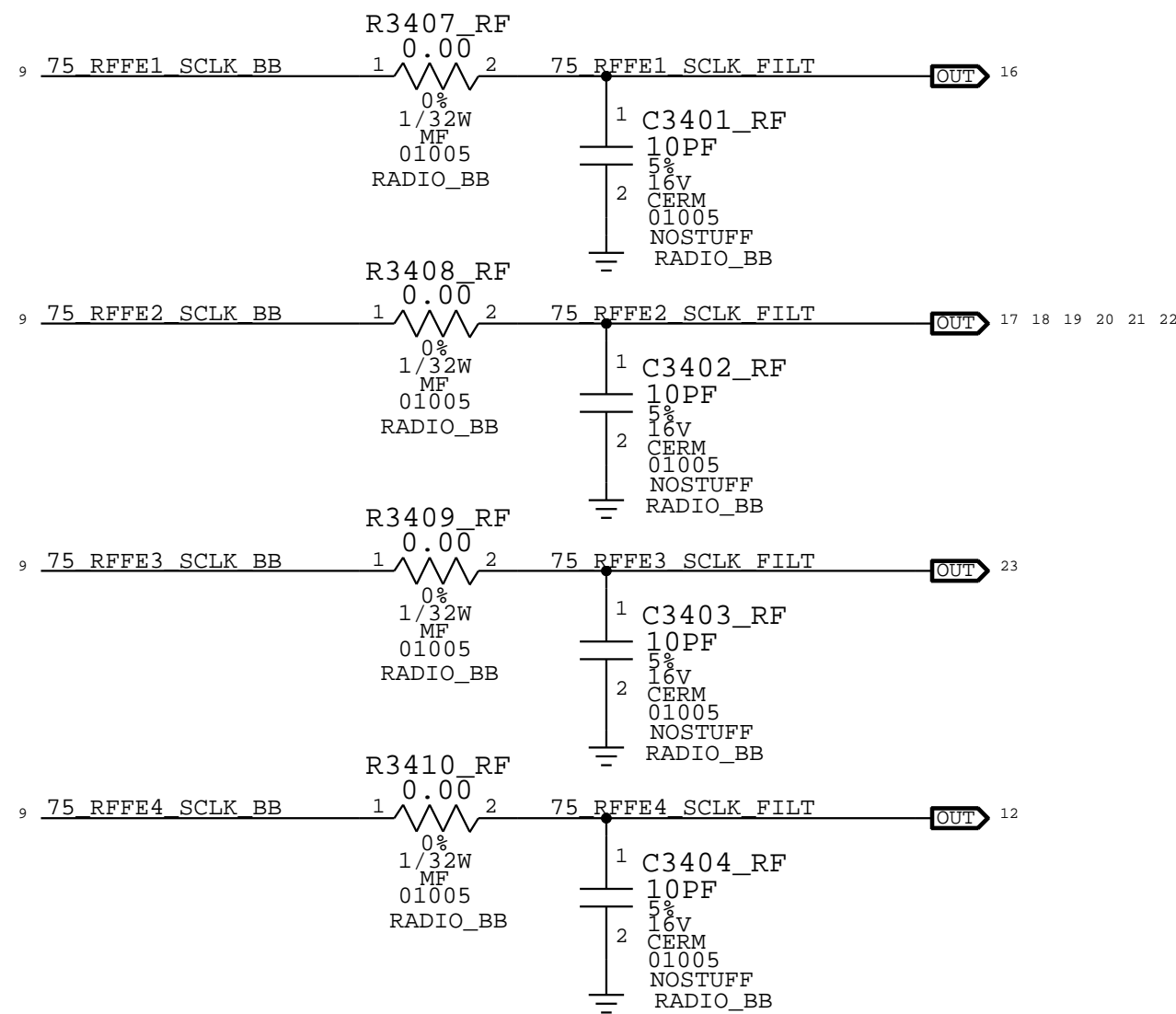
RFFE4 QPOET


RFFE5 DIV LNA, ANT TUNERS

BUFFER ON RFFE5
SCLK/SDATA_A IS OUTPUT



RFFE CLOCK FILTERS



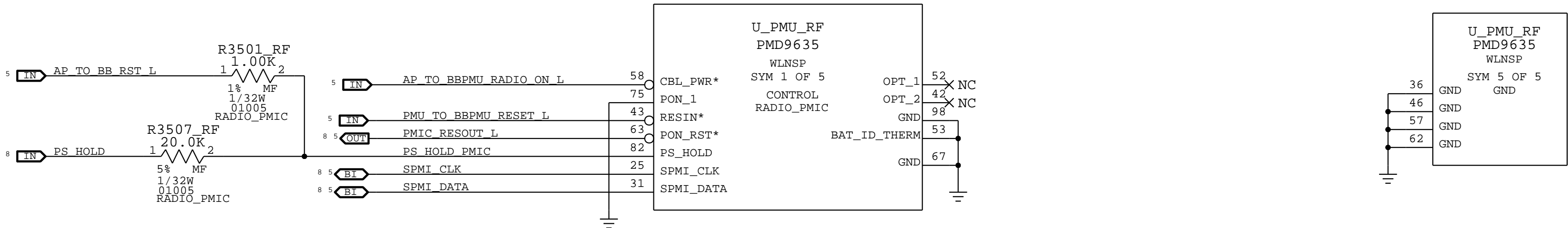
PAGE TITLE		
CELLULAR BASEBAND: GPIOs		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH
		PAGE
		34 OF 51
		SHEET
		42 OF 59

PMU: CONTROL AND CLOCKS

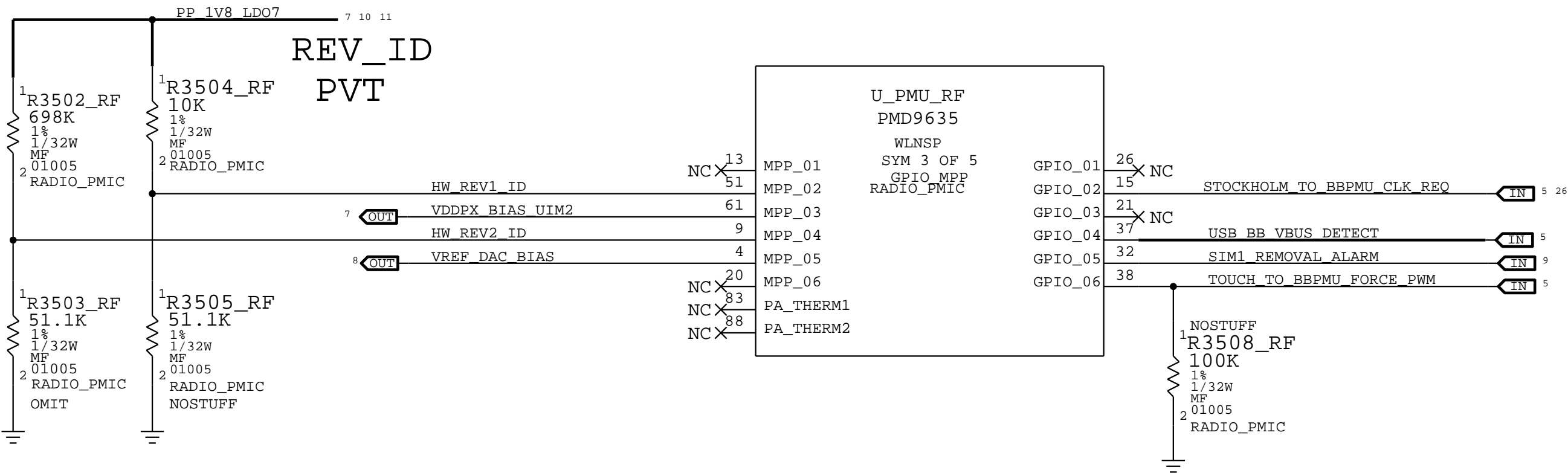
HW_REV2_ID	R3502	R3503	CONFIG
1.80V	698K	-	MLB
0.12V	698K	51.1K	SELF GEN

HW_REV_ID	R3504	R3505	REVISION
0.10V	887K	51.1K	DEV1
0.30V	255K	51.1K	DEV2
0.50V	124K	51.1K	DEV3
0.70V	82.5K	51.1K	DEV4/PROTOMLB1
0.90V	51.1K	51.1K	PROTOMLB2
1.10V	31.6K	51.1K	DEV5/PROTO1
1.20V	50K	100K	PROTO2
1.31V	39K	105K	EVT
1.43V	13.3K	51.1K	EVT_ALT
1.55V	8.25K	51.1K	CARRIER BUILD
1.67V	3.92K	51.1K	DVT
1.80V	10K	-	PVT

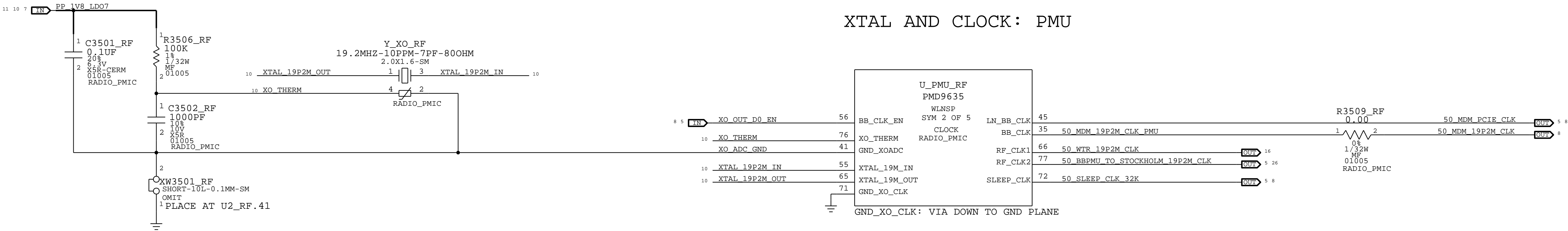
RESET AND CONTROL: PMU




MPPS AND GPIOs: PMU



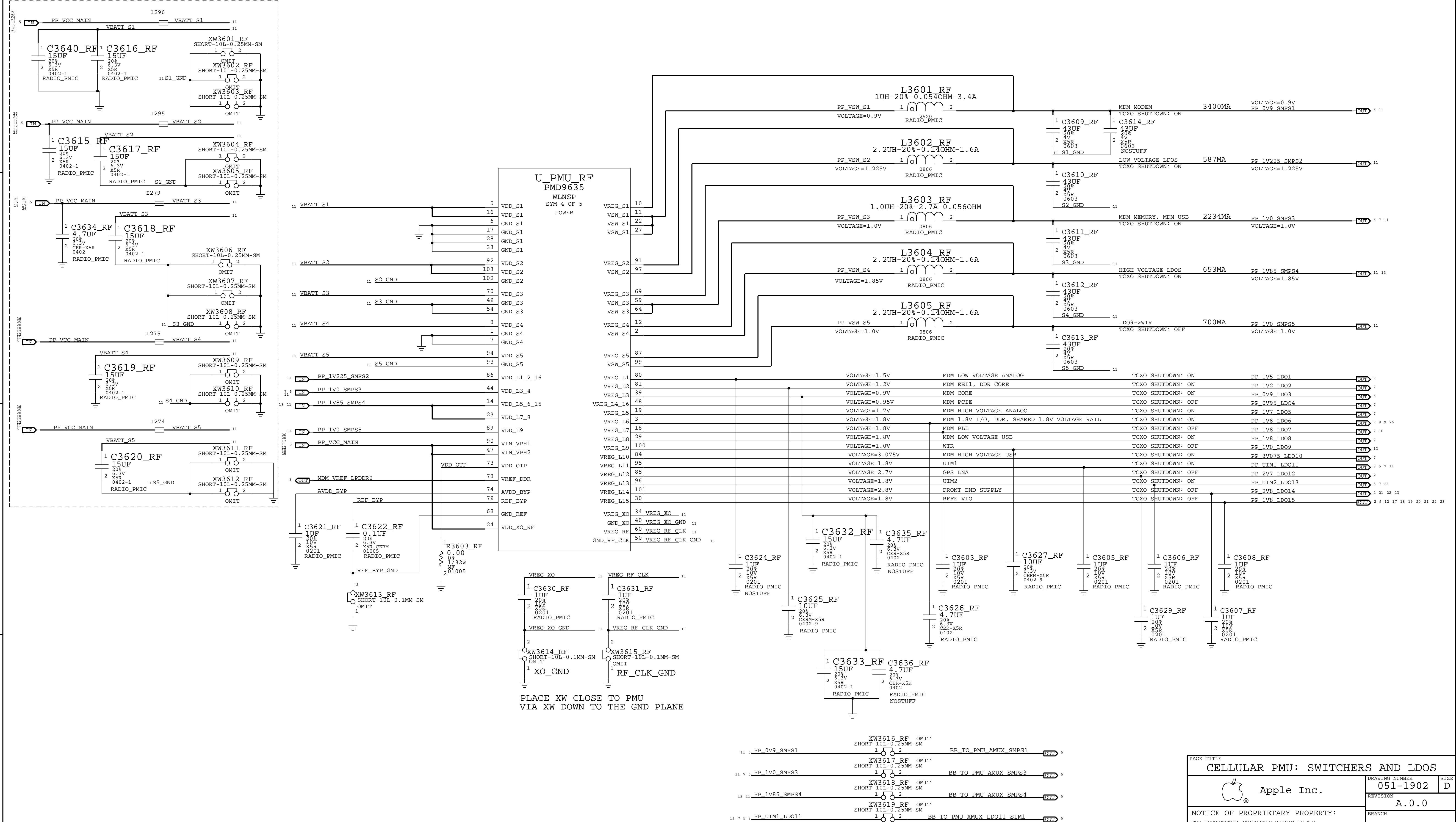
XTAL AND CLOCK: PMU



PAGE TITLE		
CELLULAR PMU: CONTROL AND CLOCKS		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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	35 OF 51
	SHEET	43 OF 59

PMU: SWITCHERS AND LDOS

SWITCHERS BULK CAPS



PAGE TITLE		
CELLULAR PMU: SWITCHERS AND LDOS		
	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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	36 OF 51
	SHEET	44 OF 59

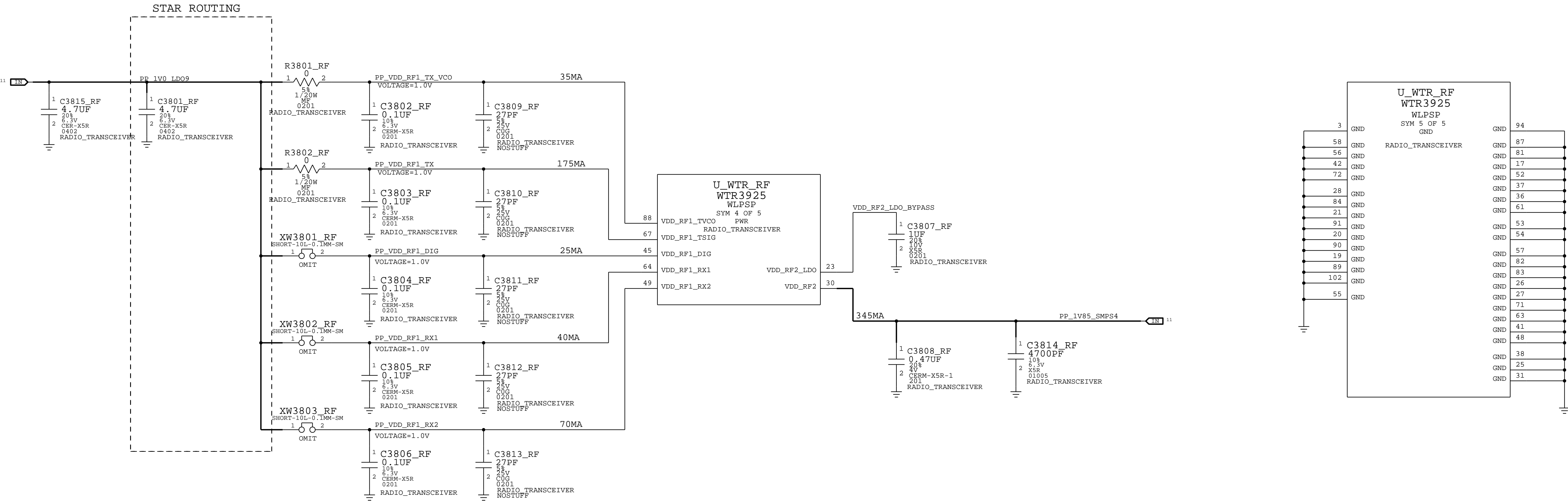
D




B

A

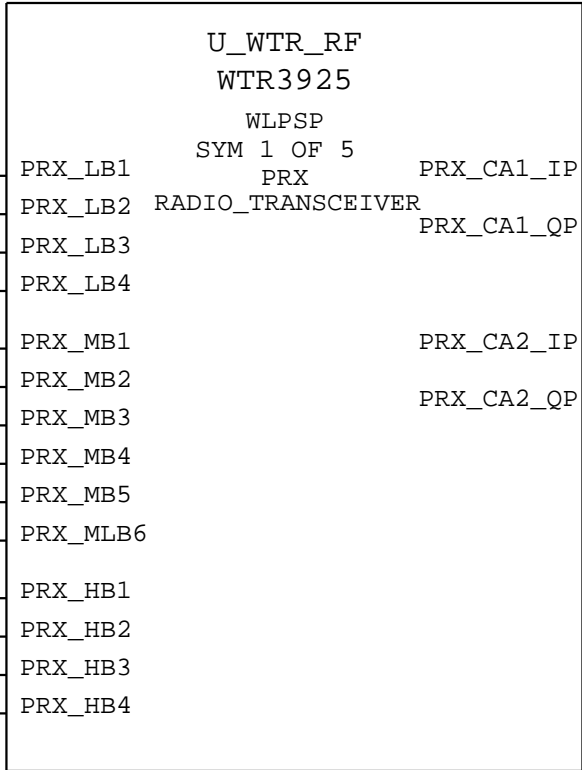
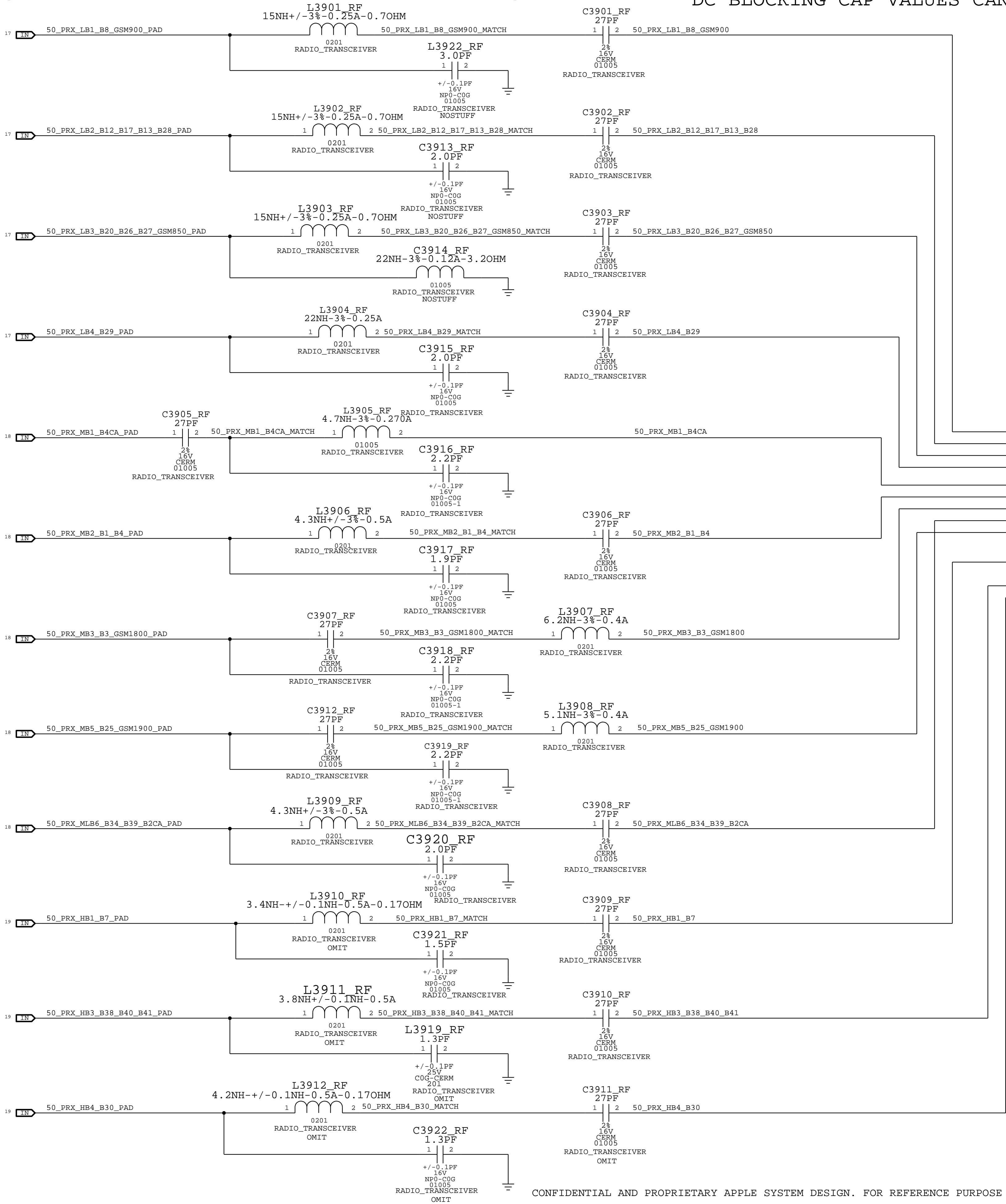
TRANSCEIVER: POWER



PAGE TITLE		
CELLULAR TRANSCEIVER: POWER		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR PUBLISH IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	38 OF 51
	SHEET	46 OF 59


TRANSCEIVER: PRX PORTS

DC BLOCKING CAP VALUES CANNOT BE MORE THAN 33PF



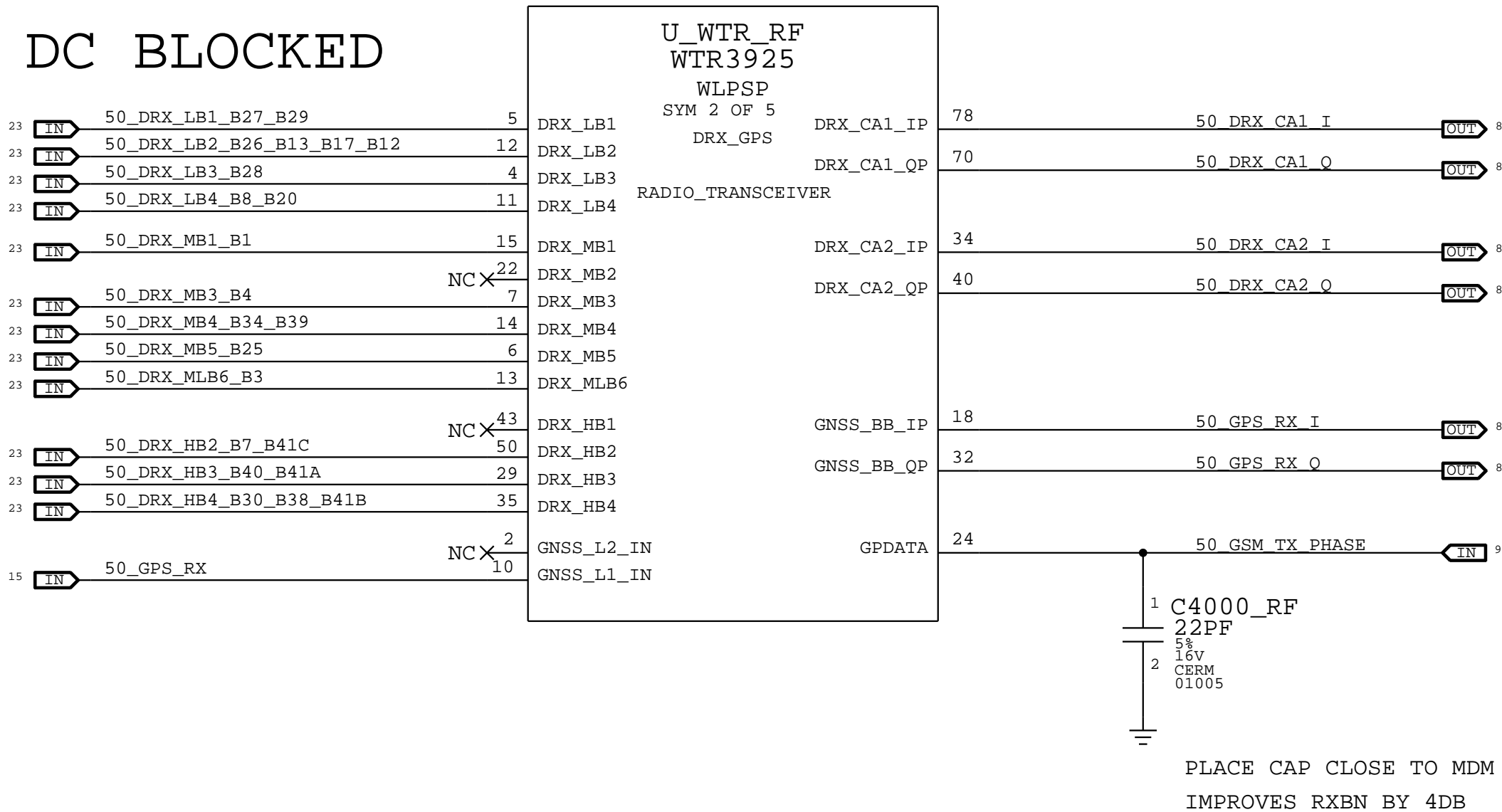
50_PRX_MLB6_B34_B39_B2CA IS ASSIGNED TO MB4

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

PAGE TITLE		
CELLULAR TRANSCEIVER: PRX PORTS		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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	39 OF 51
	SHEET	47 OF 59

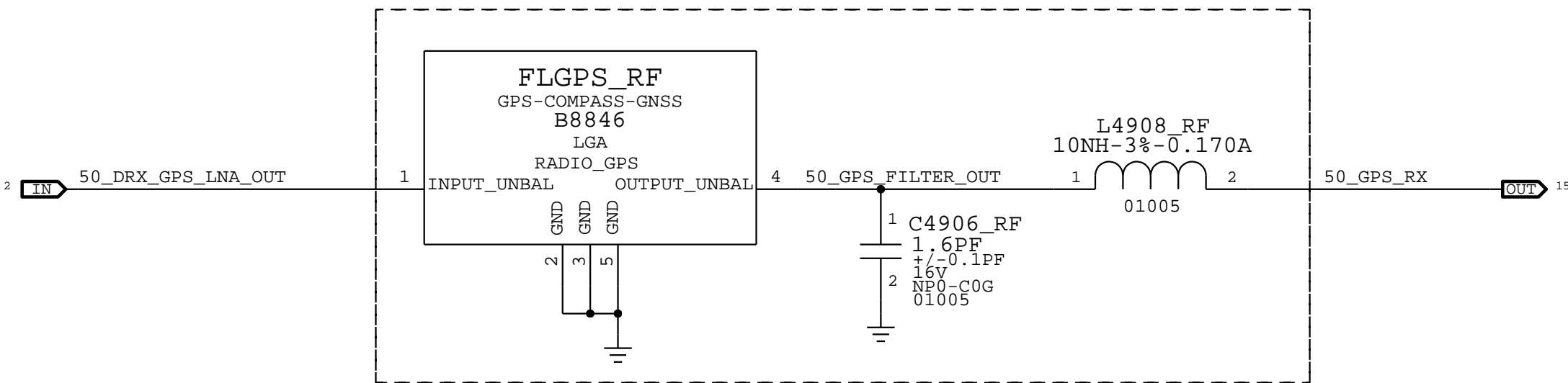
TRANSCEIVER: DRX/GPS PORTS


DRX MODULE PORTS ARE DC BLOCKED



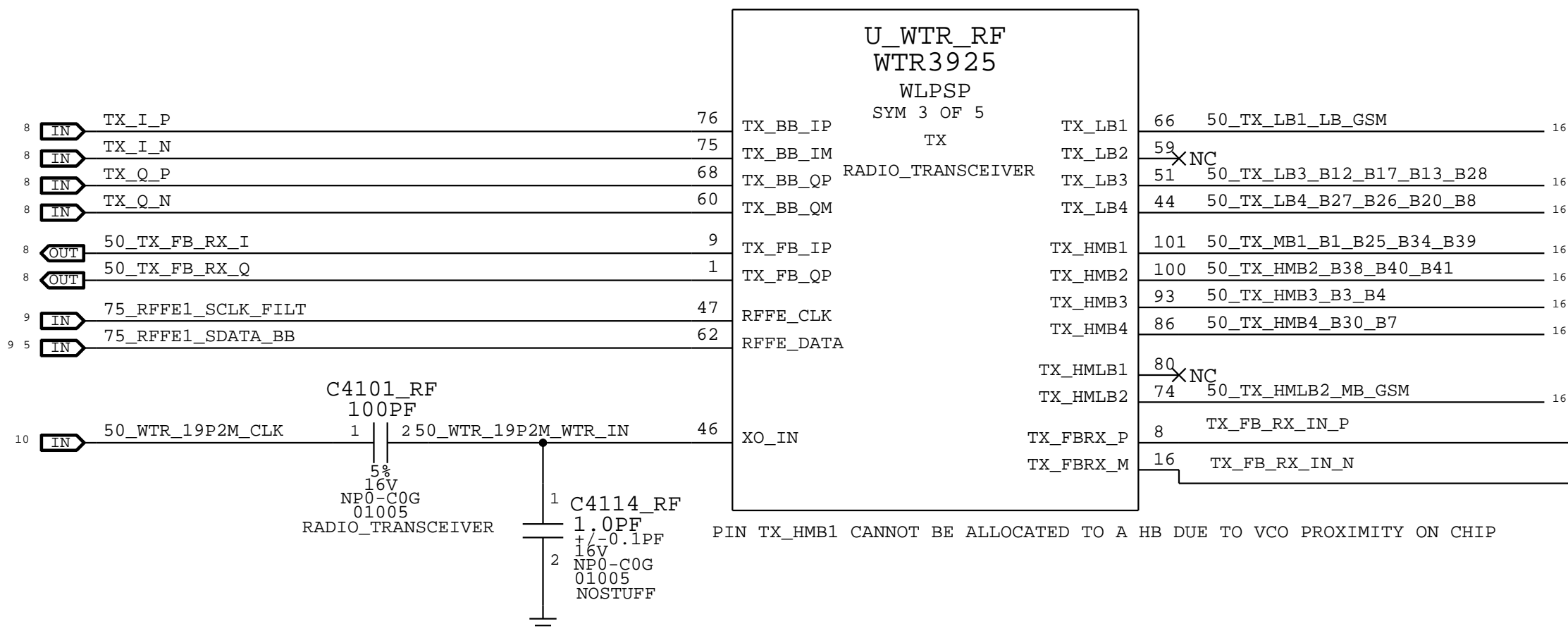
GPS FILTER

PLACE NEAR U_WTR

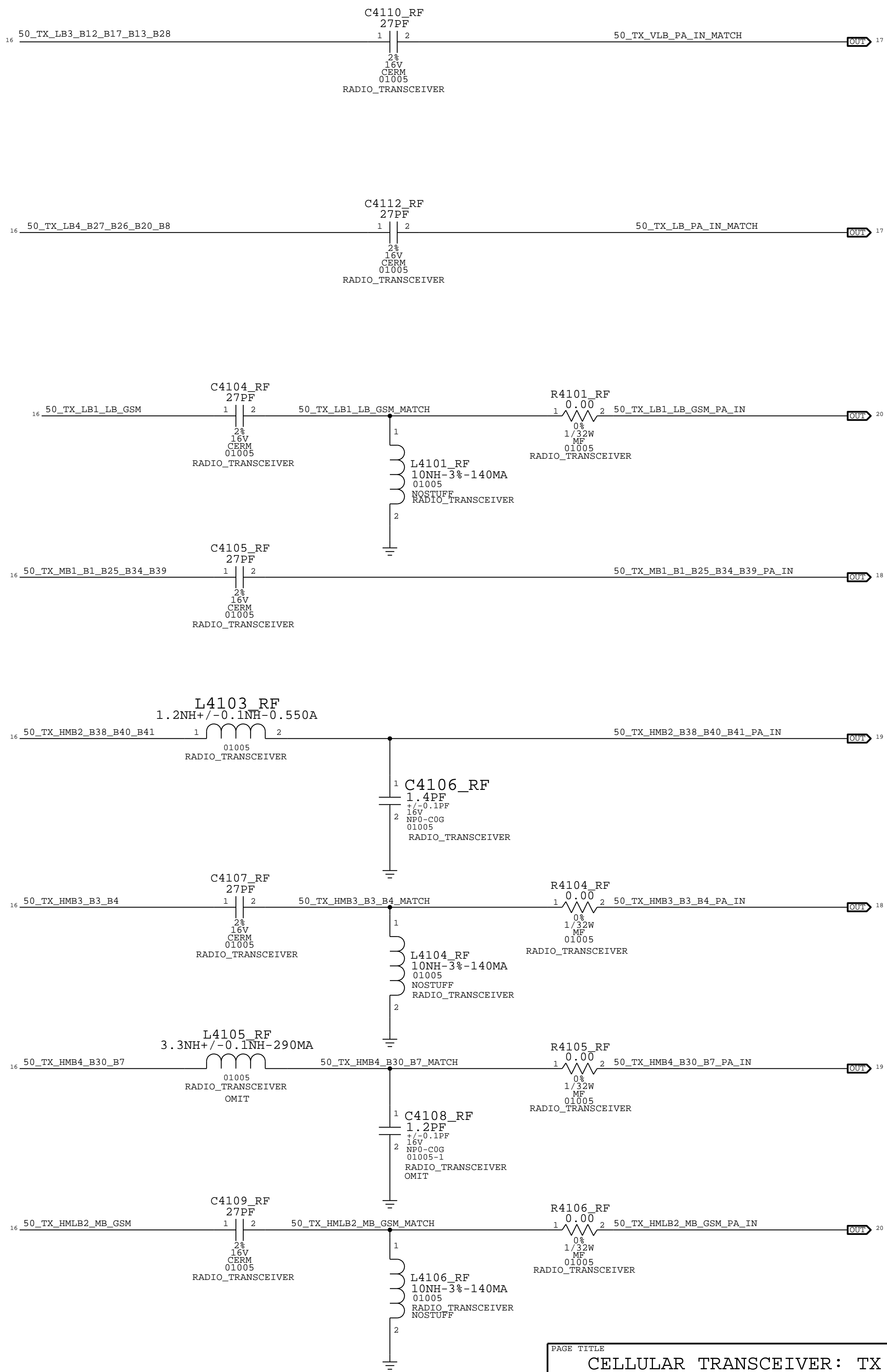



PAGE TITLE		
CELLULAR TRANSCEIVER: DRX/GPS PORTS		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	40 OF 51
	SHEET	48 OF 59

TRANSCEIVER: TX PORTS

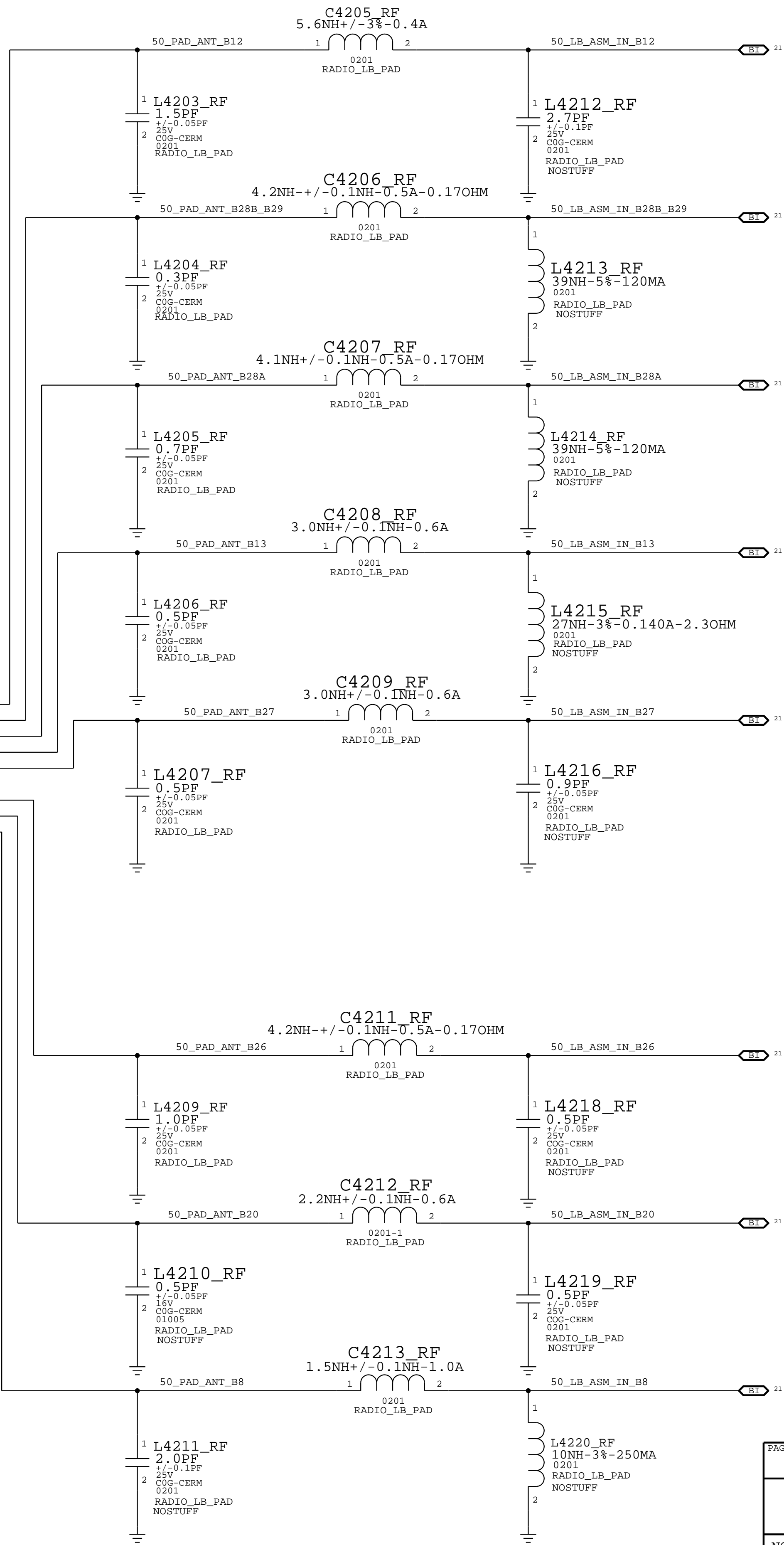
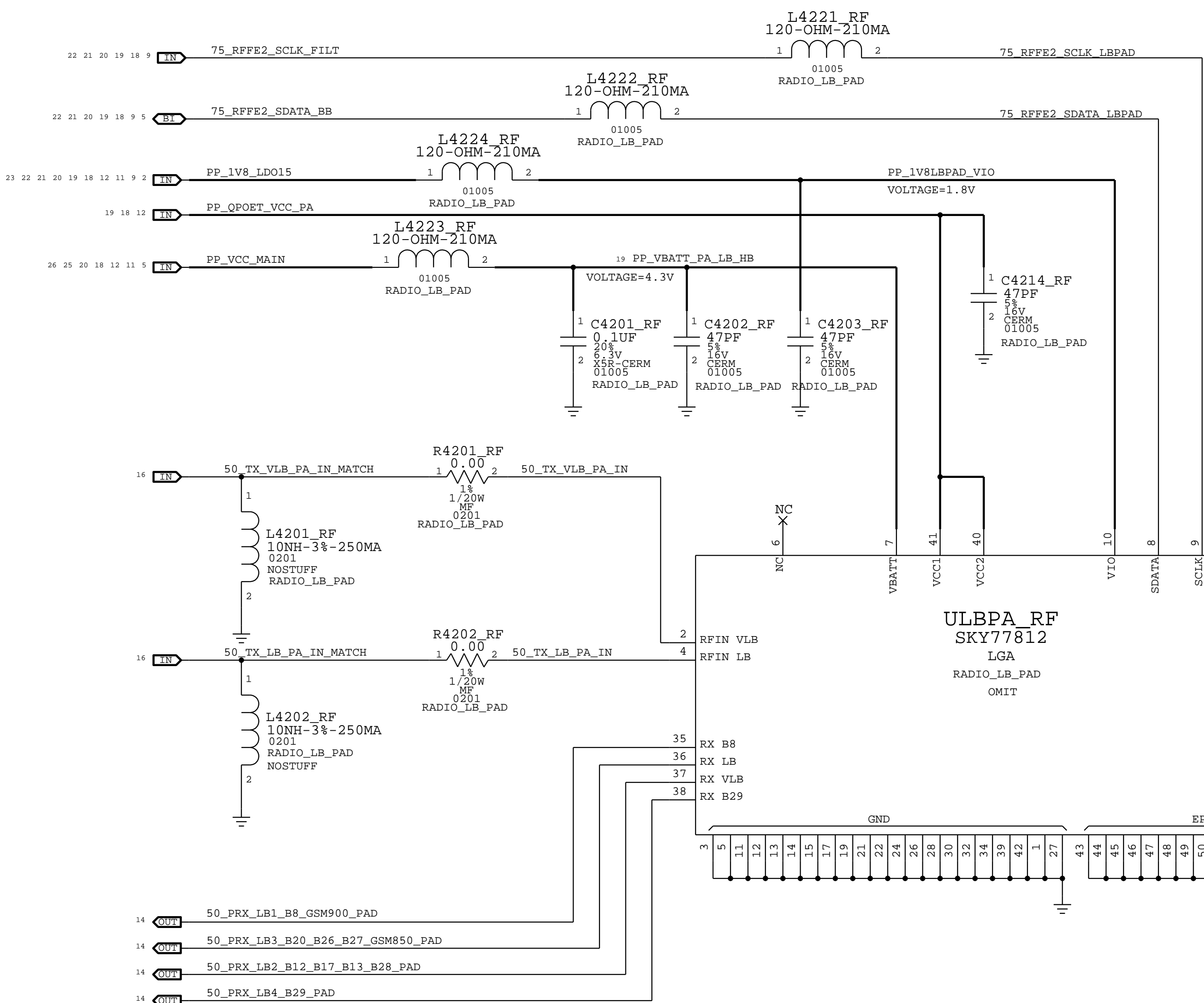



B12/13 TX INTERSTAGE FILTER REMOVED



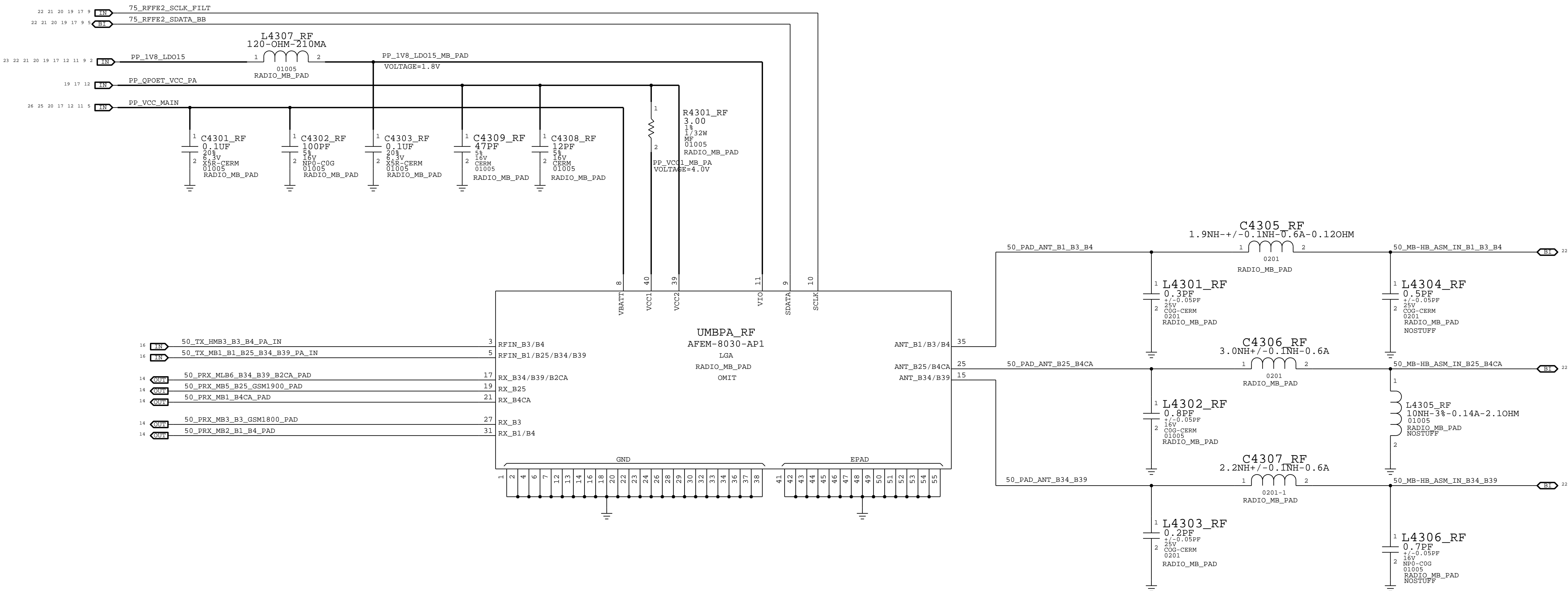
PAGE TITLE		
CELLULAR TRANSCEIVER: TX PORTS		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		BRANCH
		PAGE
		41 OF 51
		SHEET
		49 OF 59


LOW BAND PA+DUPLEXERS



PAGE TITLE		
CELLULAR FRONT END: LB PAD		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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	42 OF 51
	SHEET	50 OF 59

MID BAND PA+DUPLEXERS



PAGE TITLE		
CELLULAR FRONT END: MB PAD		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
	BRANCH	
	PAGE	43 OF 51
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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 51 OF 59

D




D

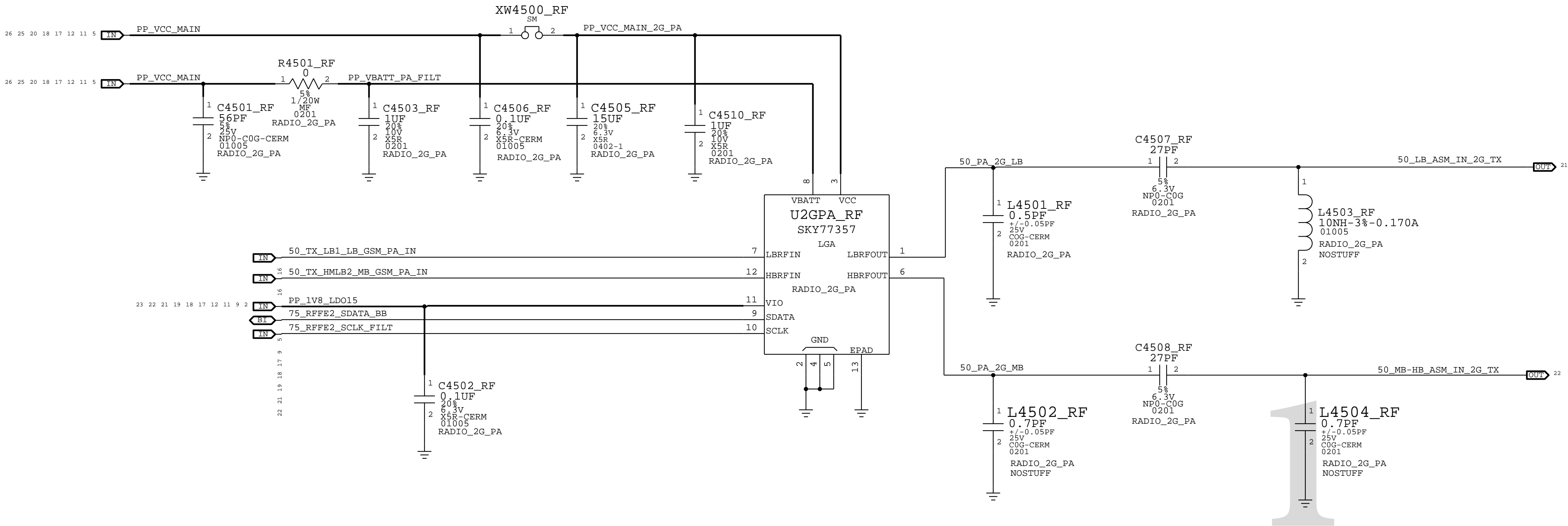
C


B

A

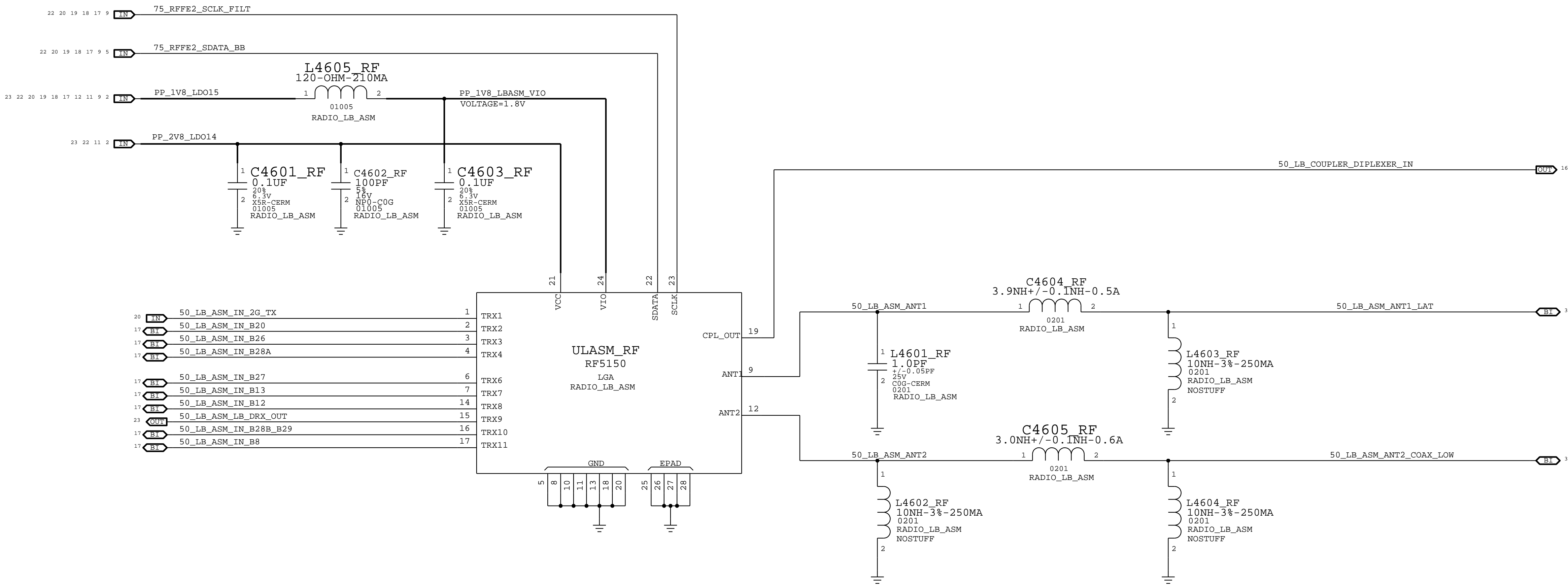
PAGE TITLE			
CELLULAR FRONT END: HB PAD			
 Apple Inc.	DRAWING NUMBER 051-1902		SIZE D
	REVISION A.0.0		
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE I I NOT TO REPRODUCE OR COPY IT I I I NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART I I I ALL RIGHTS RESERVED		PAGE 44 OF 51	
		SHEET 52 OF 59	


2G PA



PAGE TITLE		
CELLULAR FRONT END: 2G PA		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
	BRANCH	
	PAGE	45 OF 51
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORRESSOR 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 53 OF 59

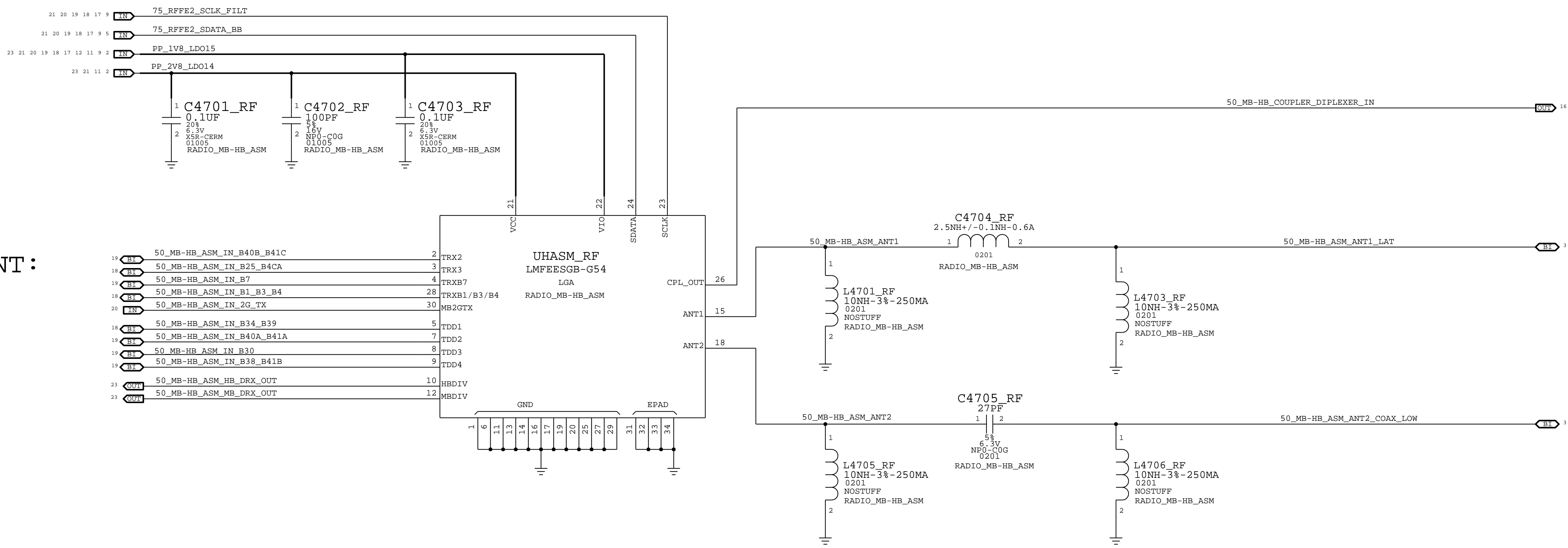
LOW BAND ANTENNA SWITCH MODULE




PAGE TITLE		
CELLULAR FRONT END: LB ASM		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORRESSOR 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	46 OF 51
	SHEET	54 OF 59

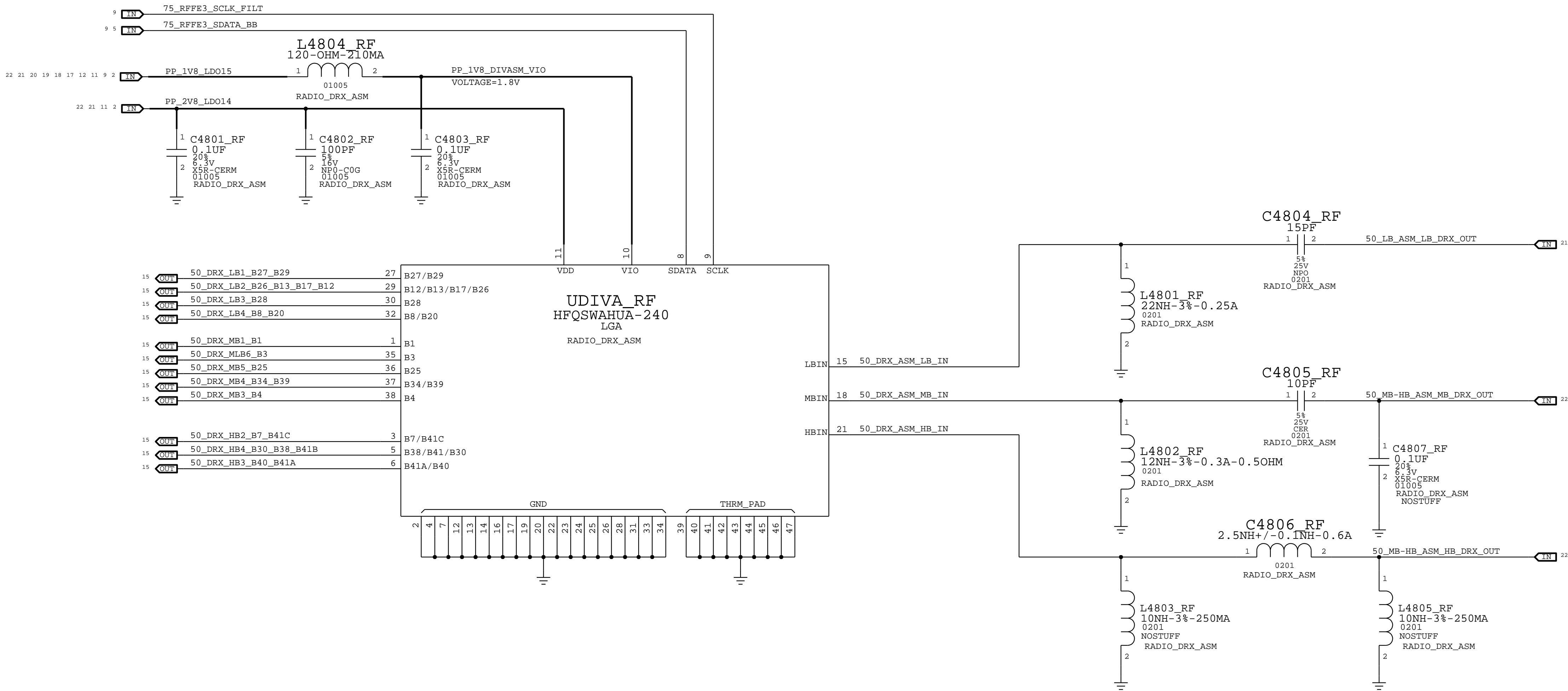
MID-HIGH BAND ANTENNA SWITCH MODULE


EVT ASM ASSIGNMENT:
B40B/B41C - TRX2
B30 - TDD3



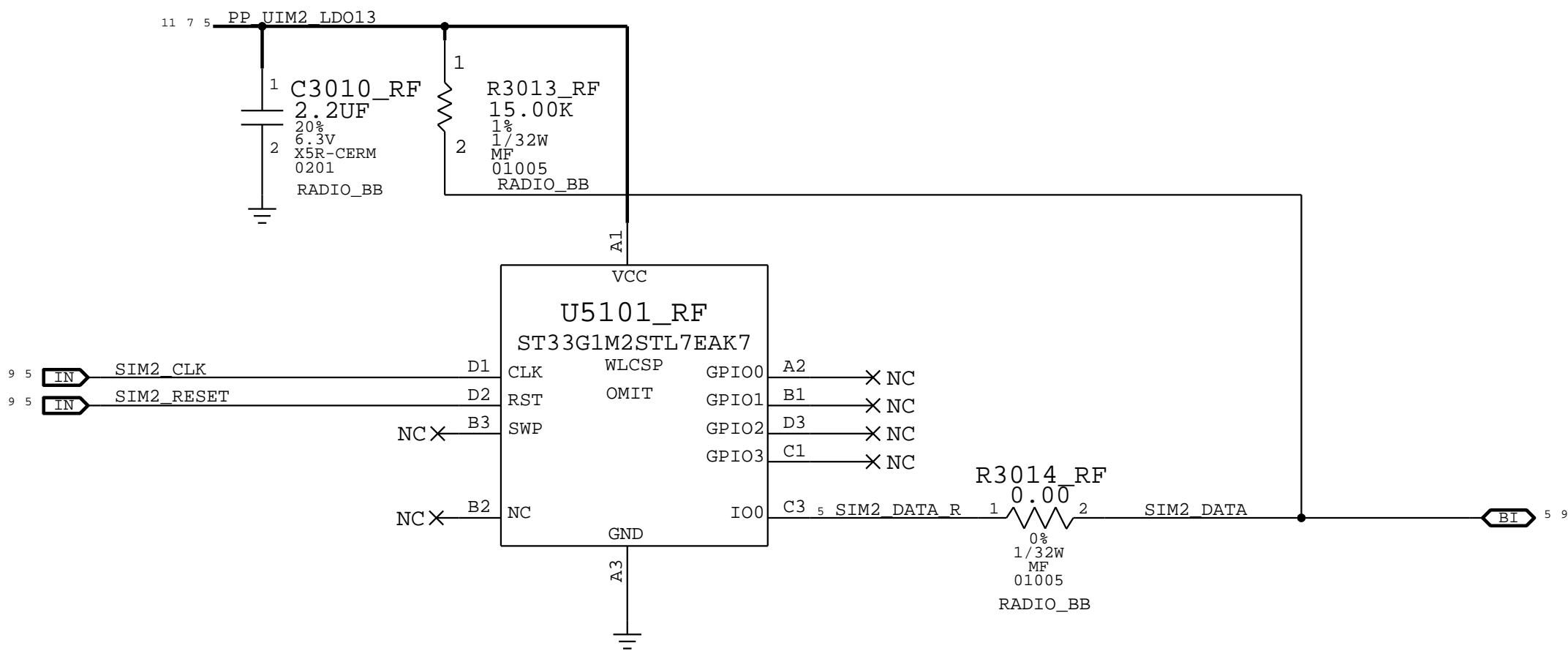
PAGE TITLE		
CELLULAR FRONT END: MB-HB ASM		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORRESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	47 OF 51
	SHEET	55 OF 59


DIVERSITY MODULE



PAGE TITLE		
CELLULAR FRONT END: DIVERSITY		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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 51
	SHEET	56 OF 59

SIM



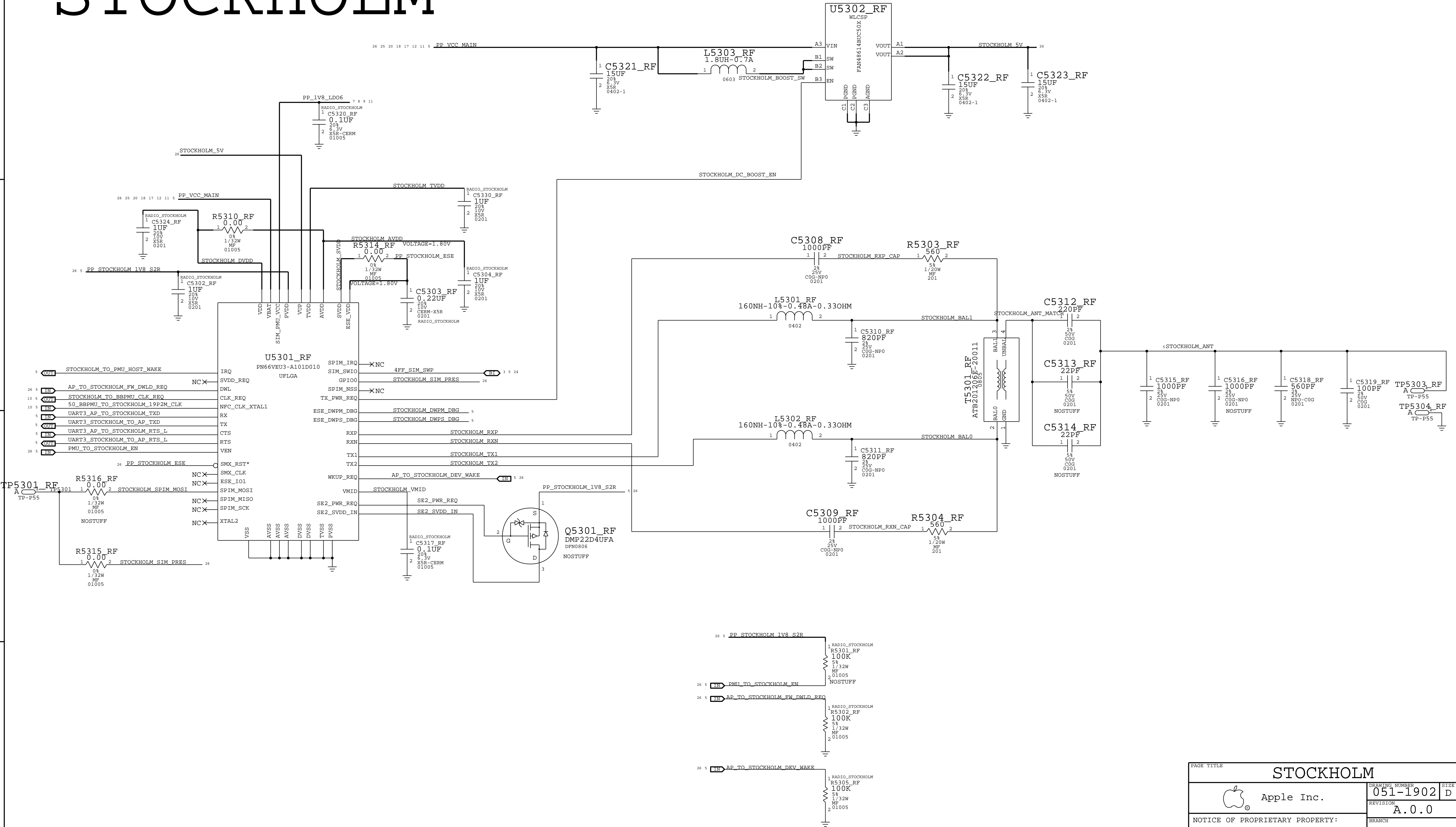
PAGE TITLE		
SIM		
 Apple Inc.	DRAWING NUMBER	051-1902
	REVISION	A.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH	
	PAGE	49 OF 51
	SHEET	57 OF 59


D



STOCKHOLM

ALL NETNAMES NEED TO BE CHECKED



PAGE TITLE			
STOCKHOLM			
 Apple Inc.	DRAWING NUMBER	051-1902	SIZE D
	REVISION	A.0.0	
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE FORGESSOR 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 51
		SHEET	59 OF 59