

D111 EEEE CALLOUTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-6838	1	EEEE CODE FOR 639-01824	EEEE_GY4R	CRITICAL	EEEE_D111_BEST
825-6838	1	EEEE CODE FOR 639-01825	EEEE_GY4T	CRITICAL	EEEE_D111_SUPREME
825-6838	1	EEEE CODE FOR 639-01826	EEEE_GY4V	CRITICAL	EEEE_D111_EXTREME

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00049	138S00032	ALTERNATE	ALL	OMP, CSR, XSR, Z, 2DP, 2DPM, 2V, 3SR, KYOCERA
138S00031	138S00032	ALTERNATE	ALL	OMP, CSR, XSR, Z, 2DP, 2DPM, 5, 3V, 3SR, MAXIMA

PAGE TITLE

SYSTEM:EEEE CALLOUTS

SYNC_DATE=02/24/2016

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051-00542

REVISION
5.0.0

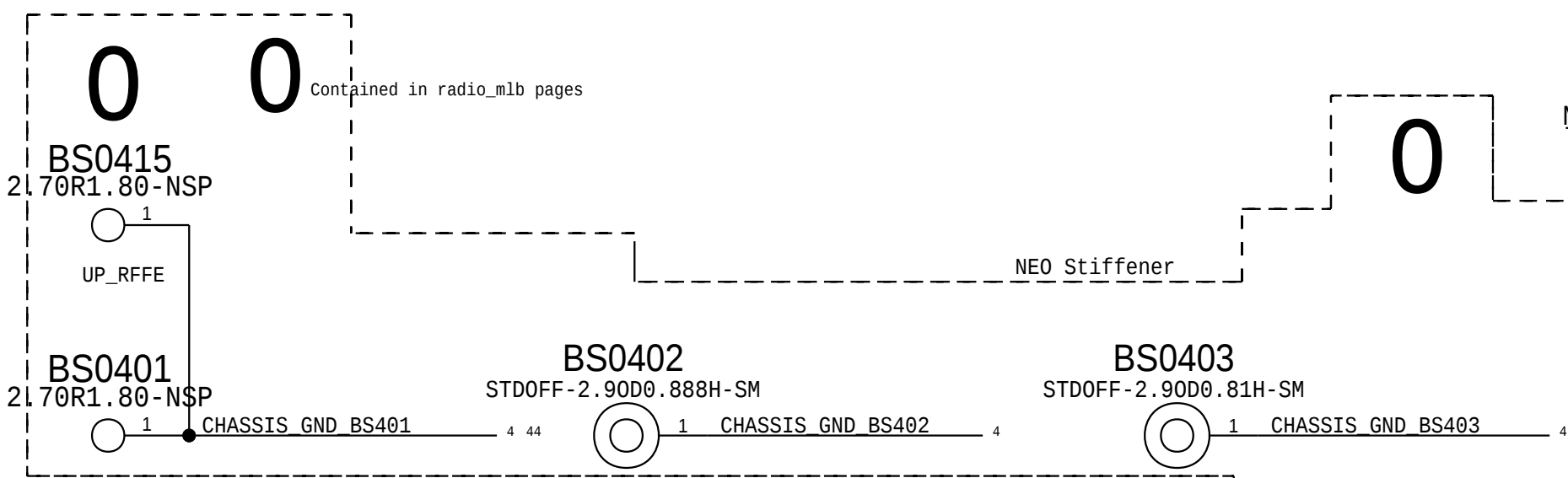
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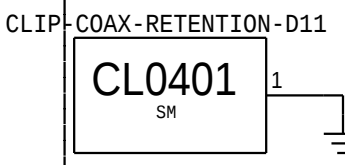
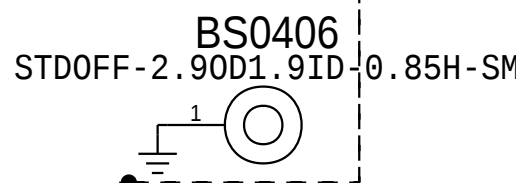
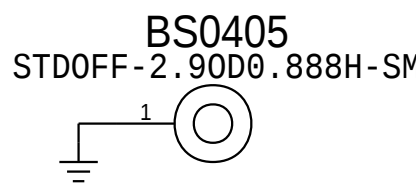
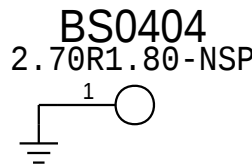
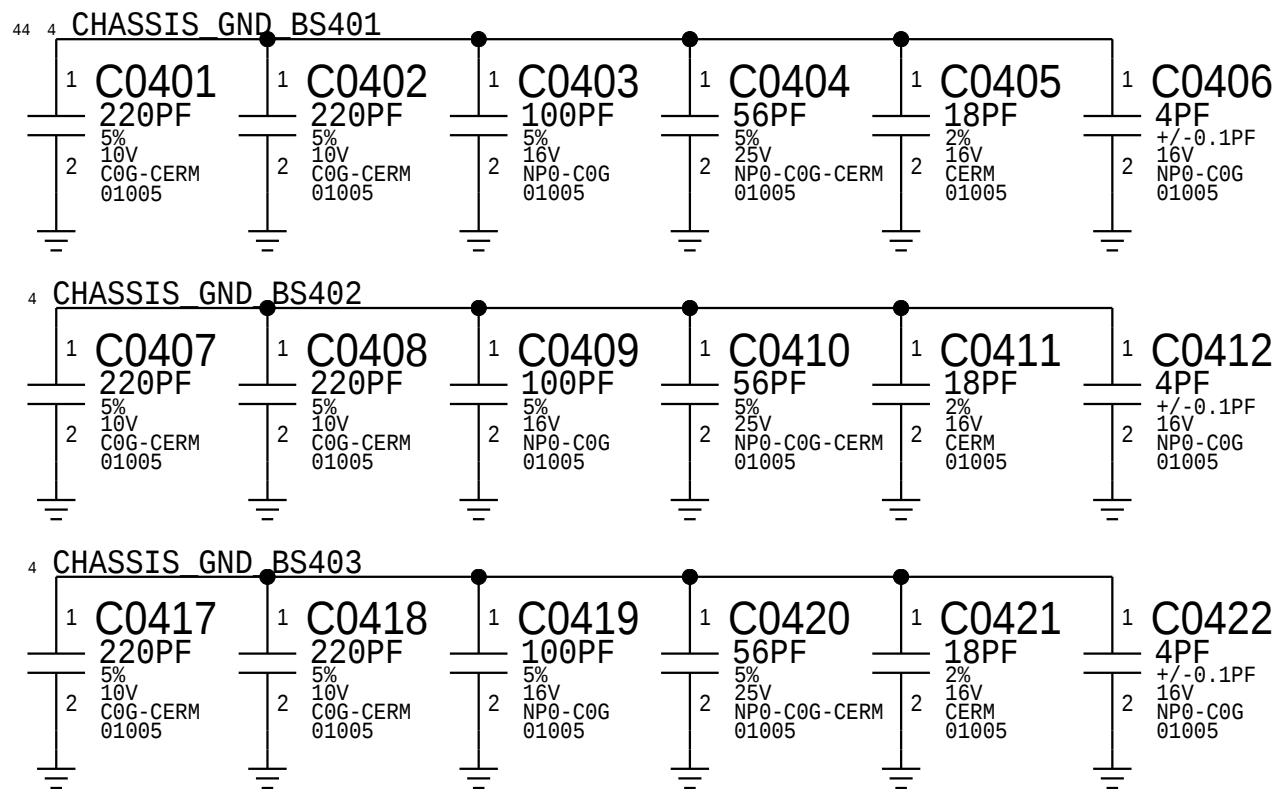
SHEET
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SIZE
D

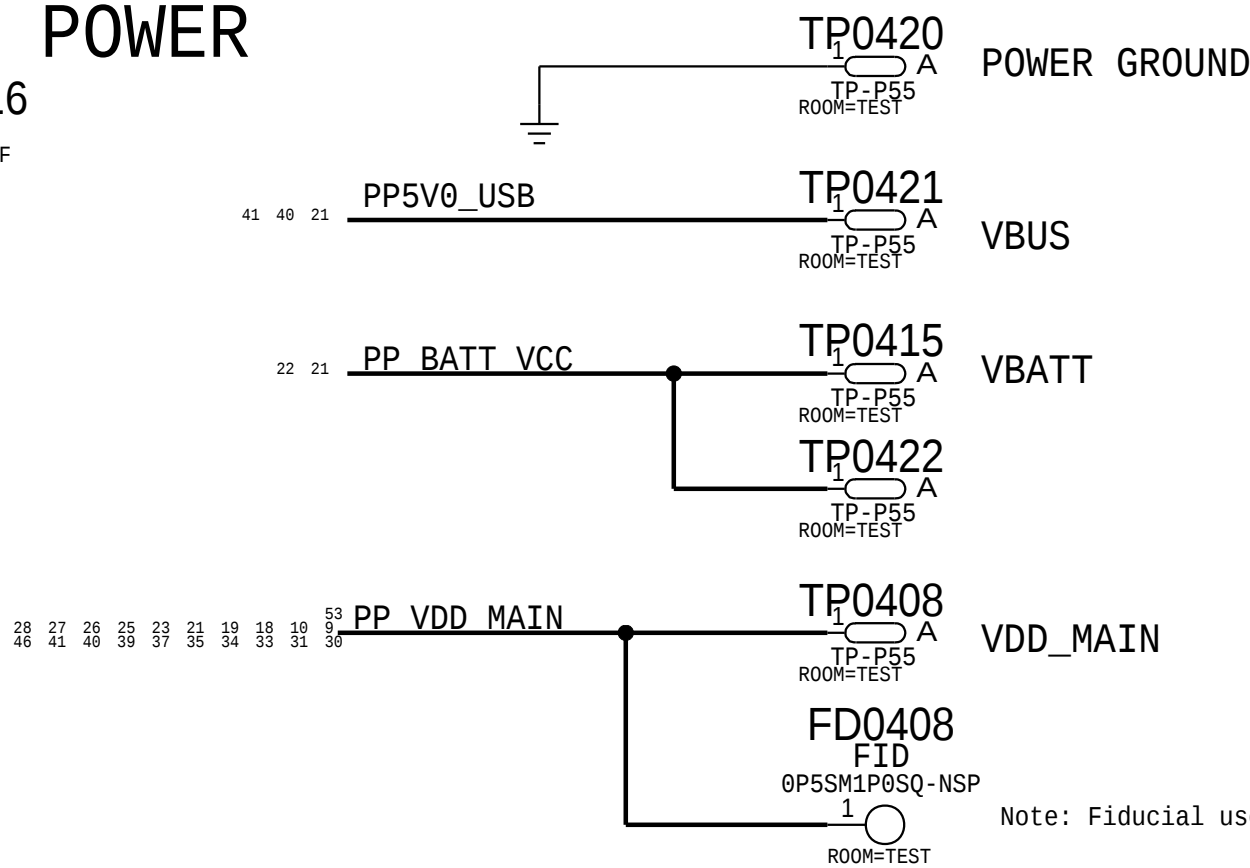
Current as of D11 MC0 056-01585 rev. 63



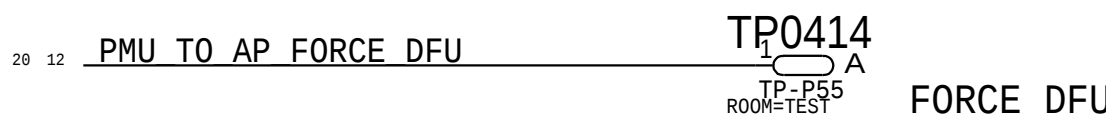
PTH per Rev63 for 1.8mm Drill



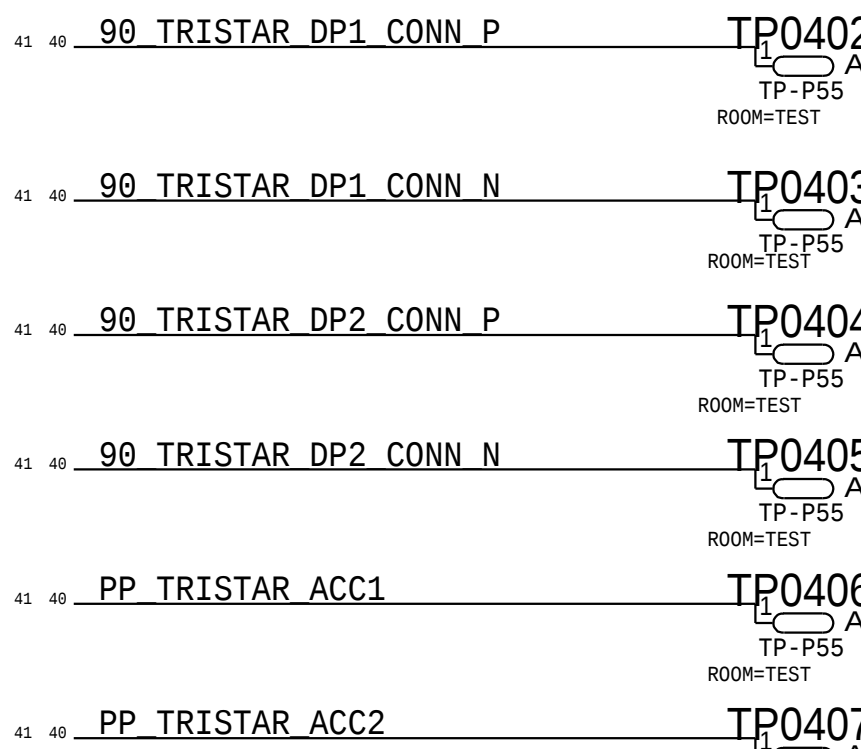
TESTPOINTS
POWER



DFU



E75

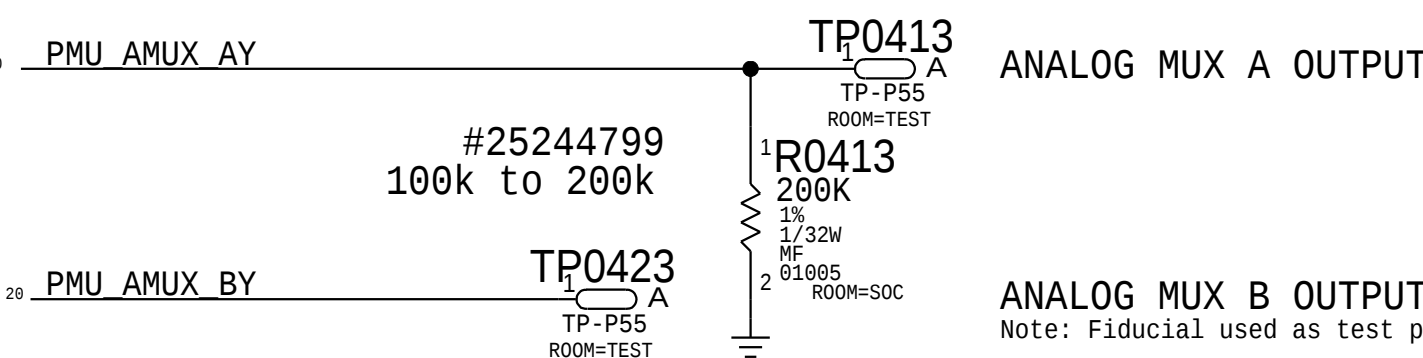


ACCESSORY ID AND POWER

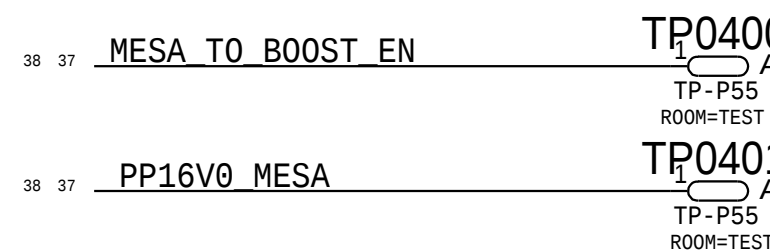
TP IS TO HELP WITH USB SI IN THE FACTORY FIXTURE.

FOR DIAGS

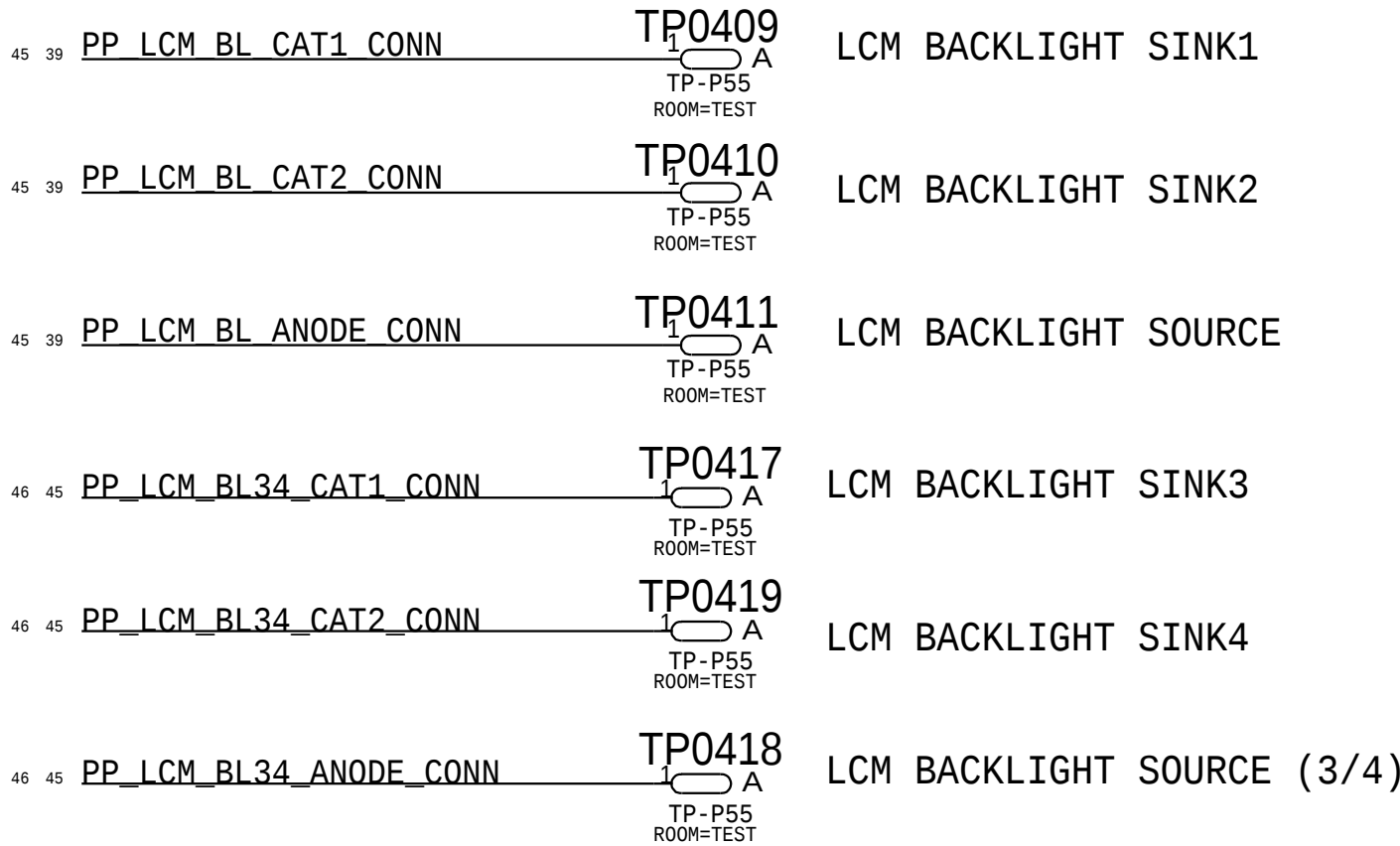
AMUX



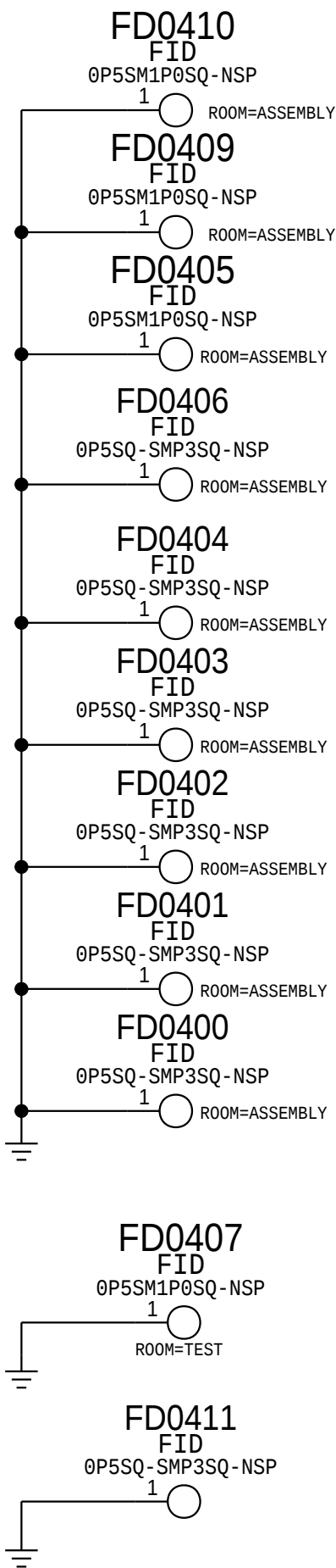
MOJAVE



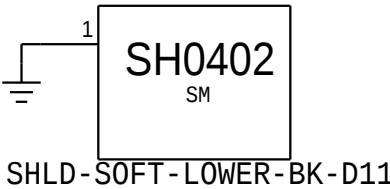
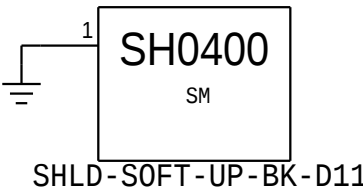
LCM



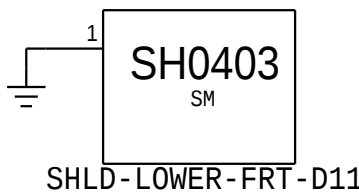
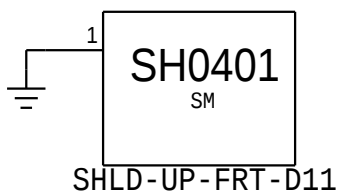
FIDUCIALS



Back Shields



Front Shields



TOP SIDE

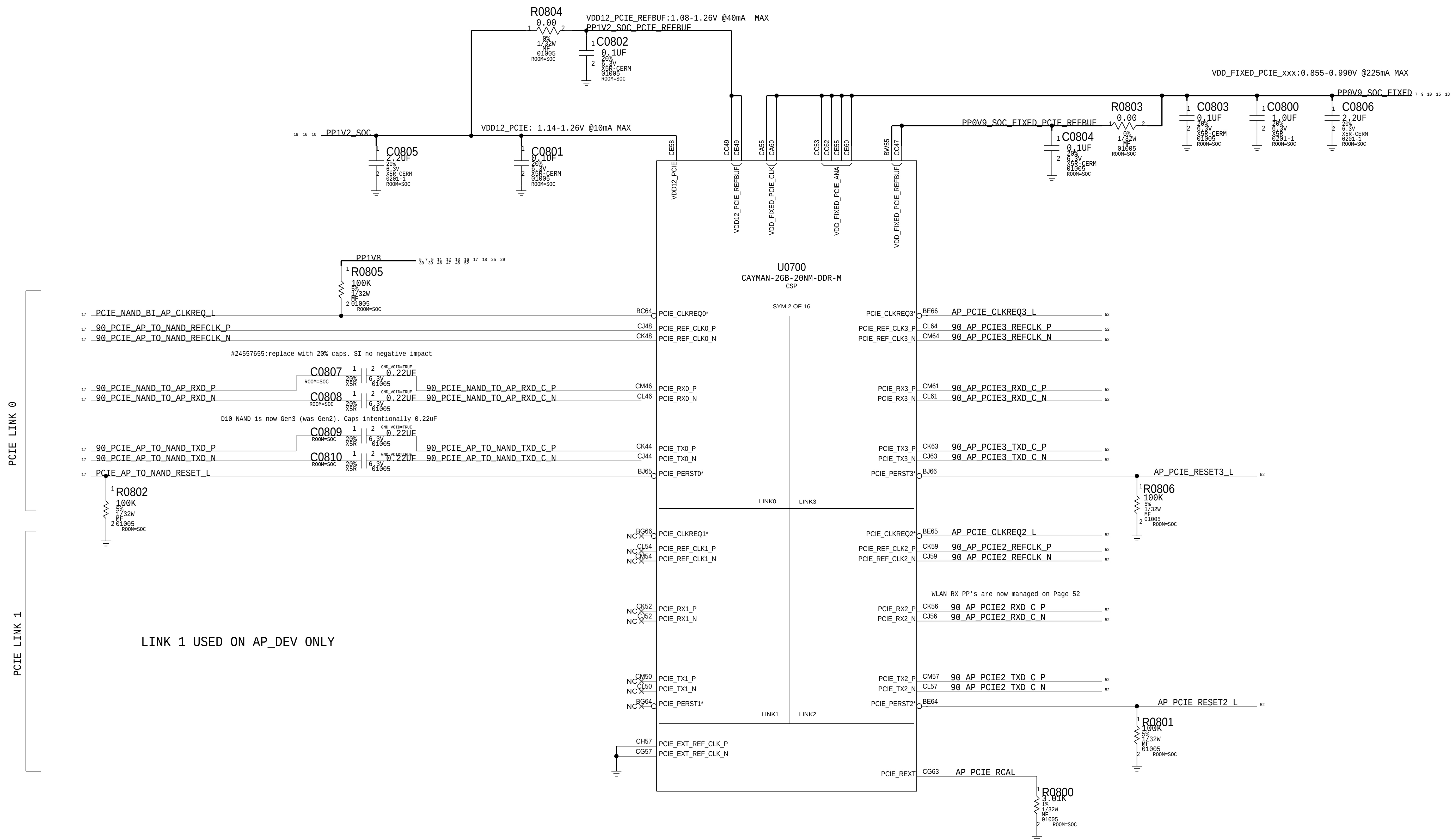
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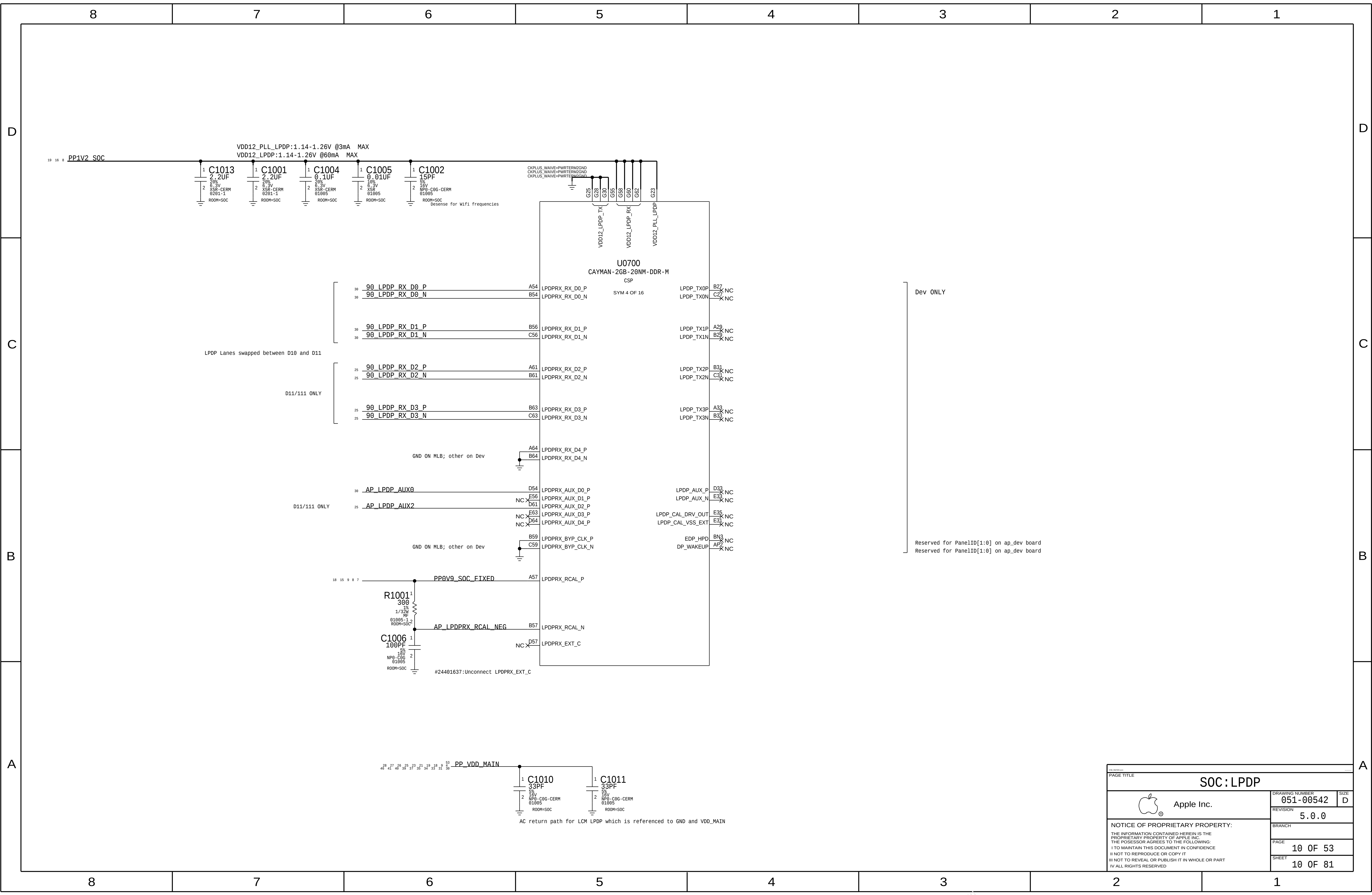
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8		7		6		5		4		3		2		1		

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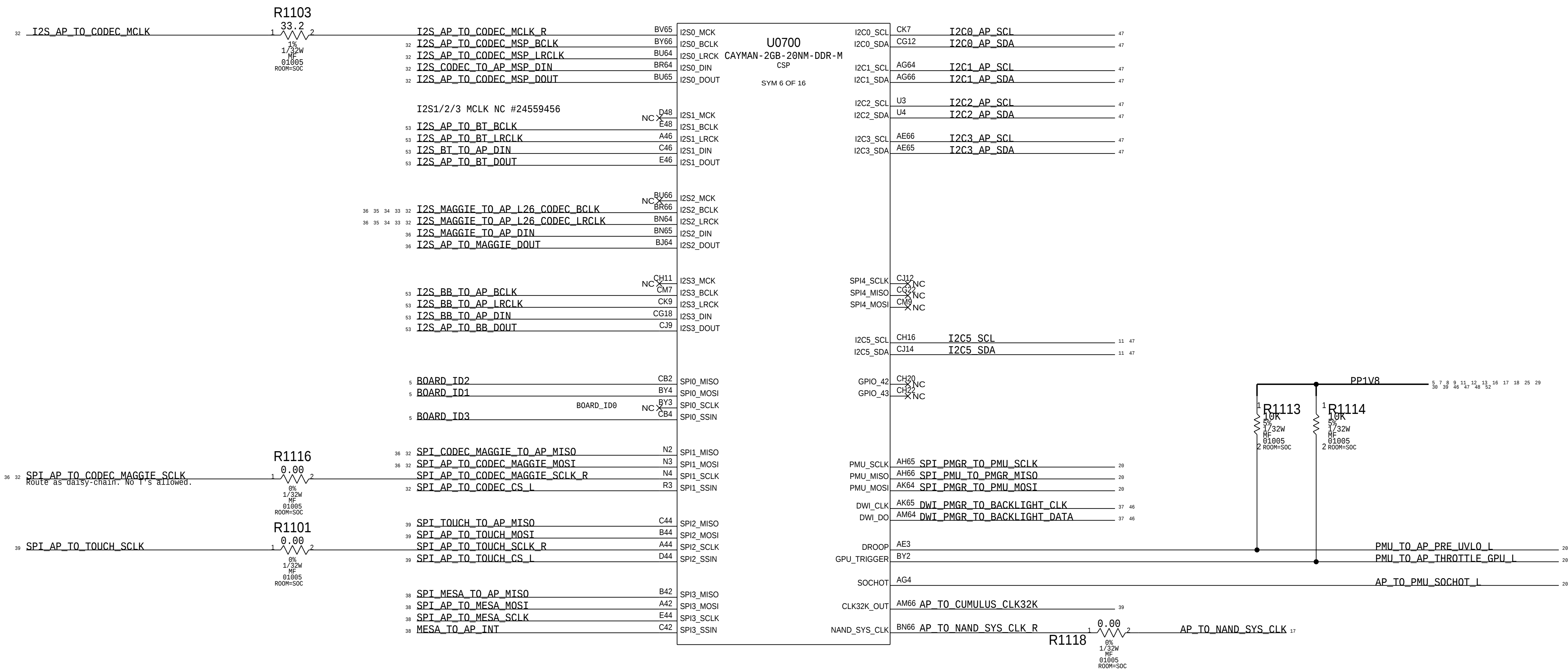
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SOC - PCIE INTERFACES	



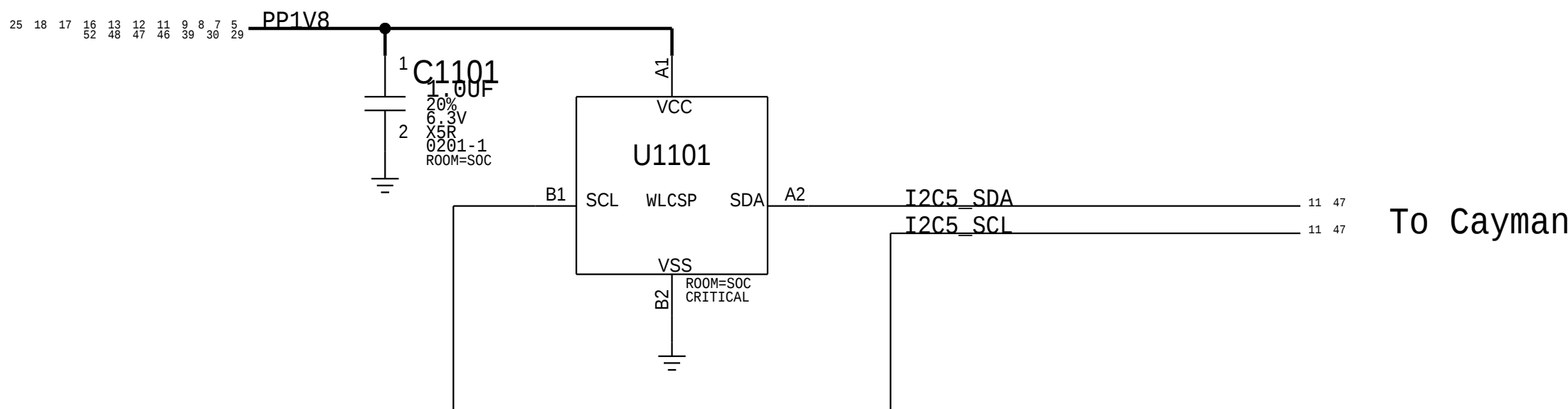


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SOC - SERIAL INTERFACES

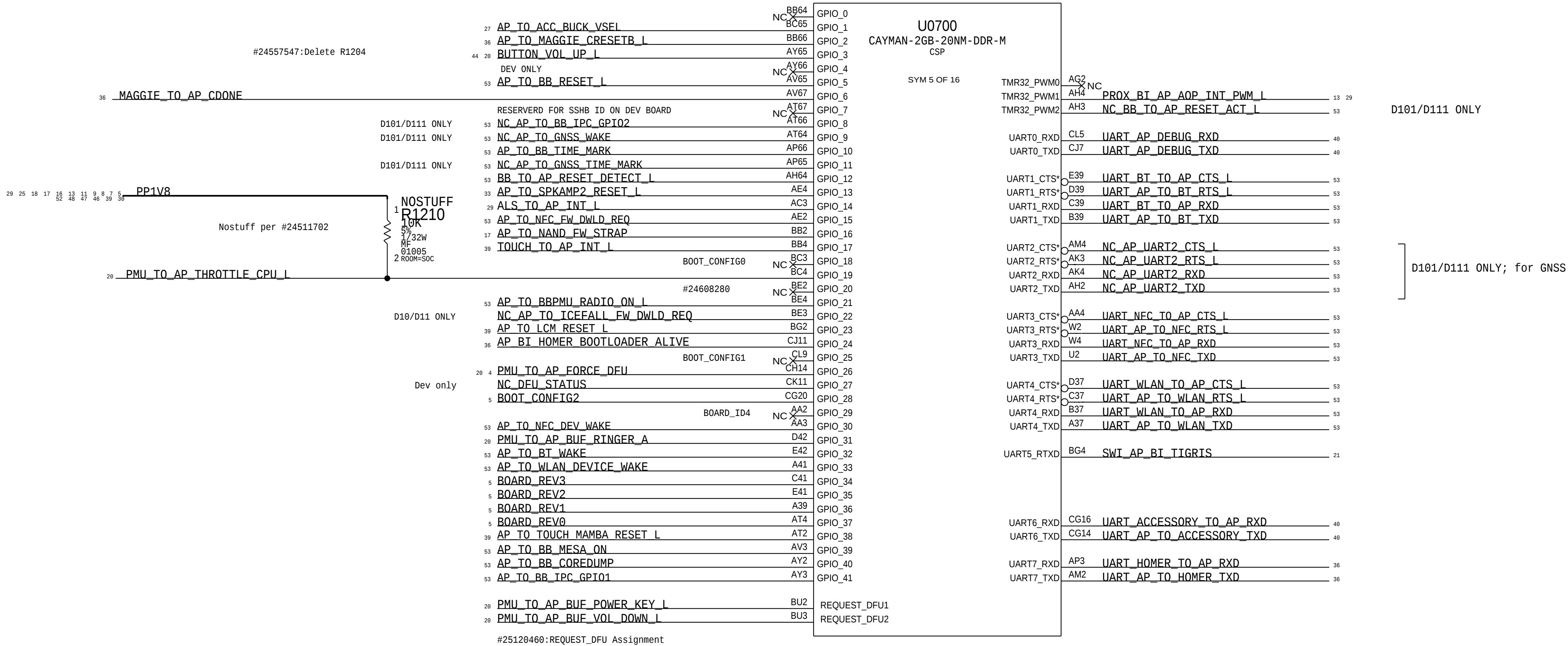


I2C5
See Radar#25316444 for Details



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SOC - GPIO INTERFACES



SOC - AOP

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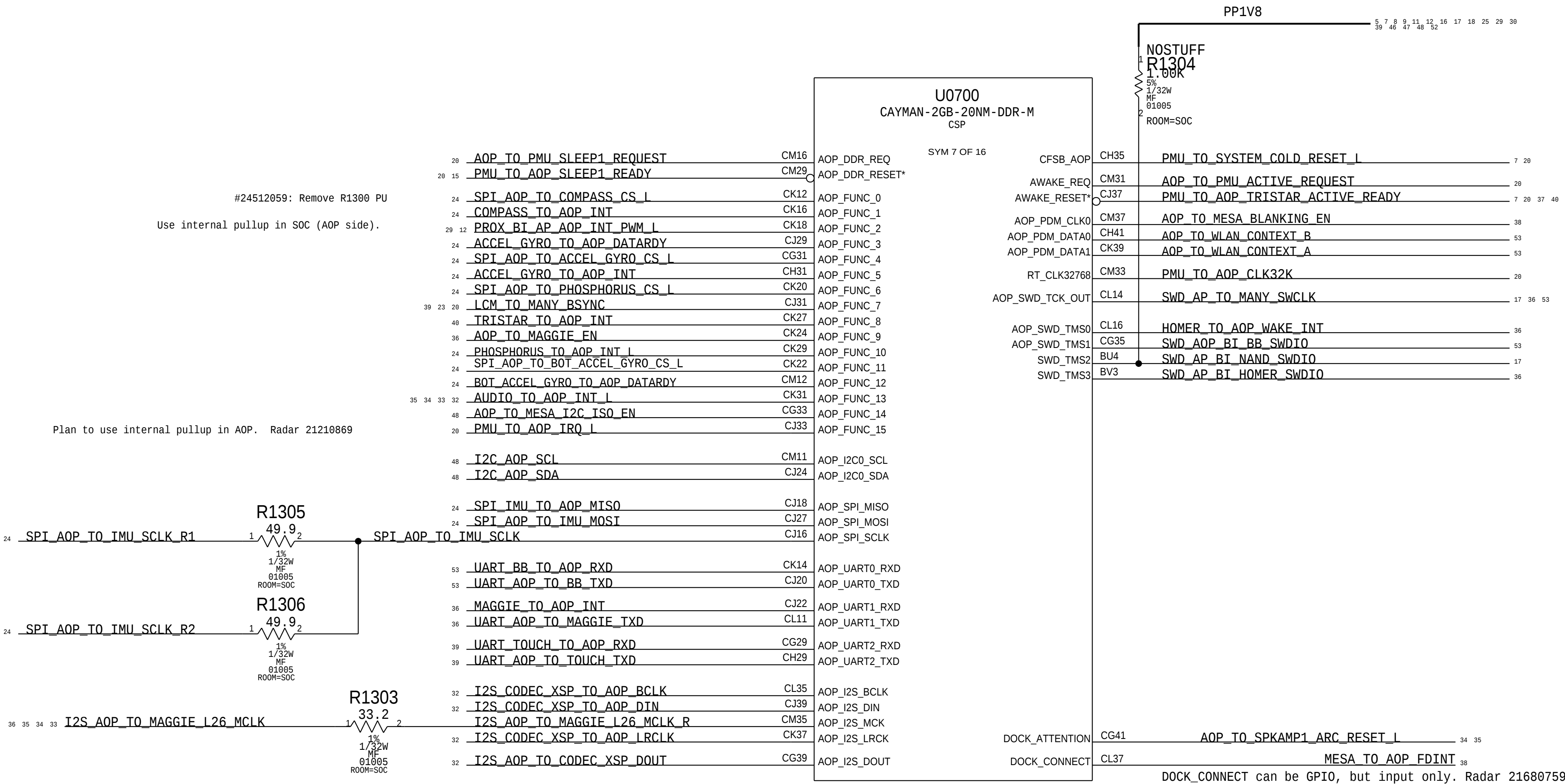
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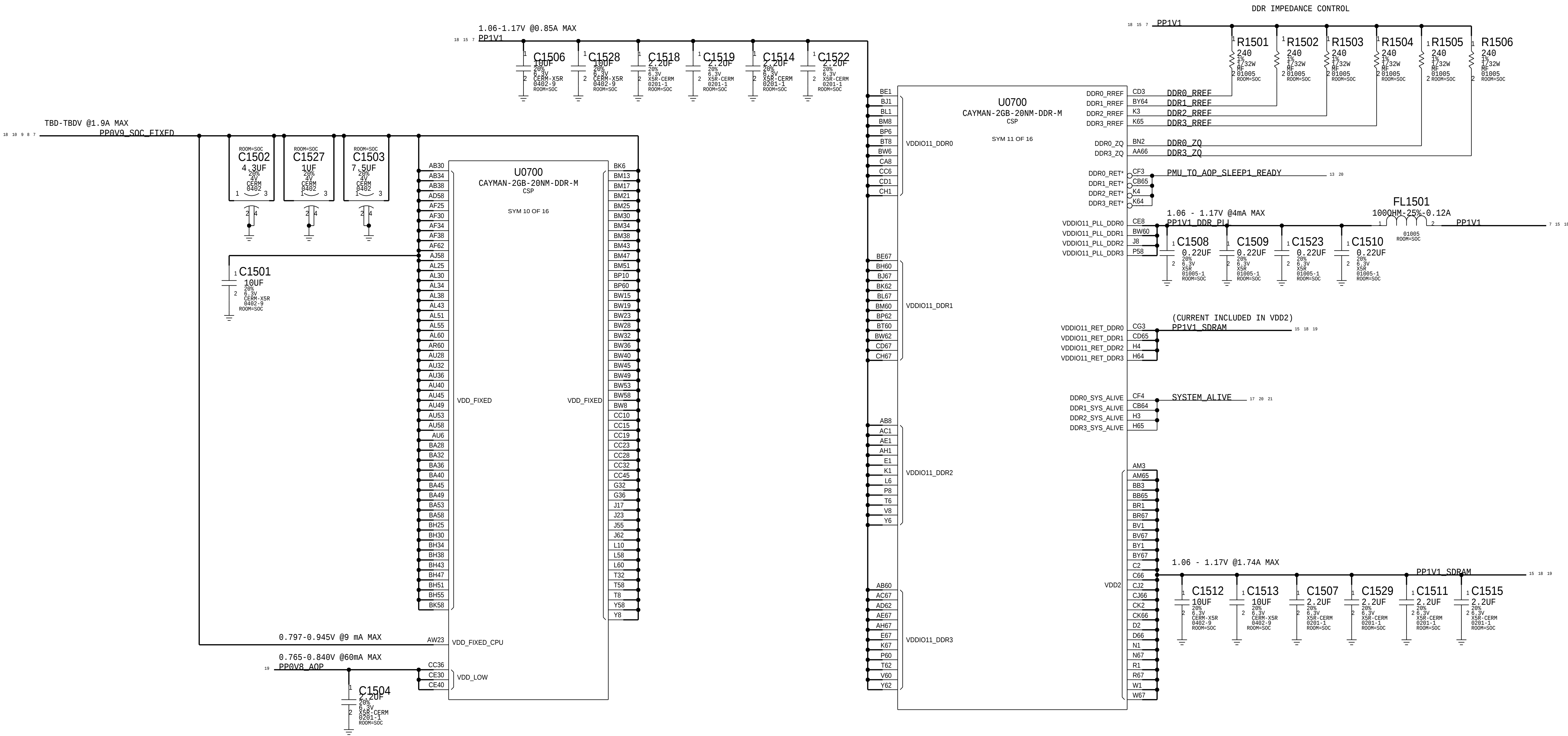
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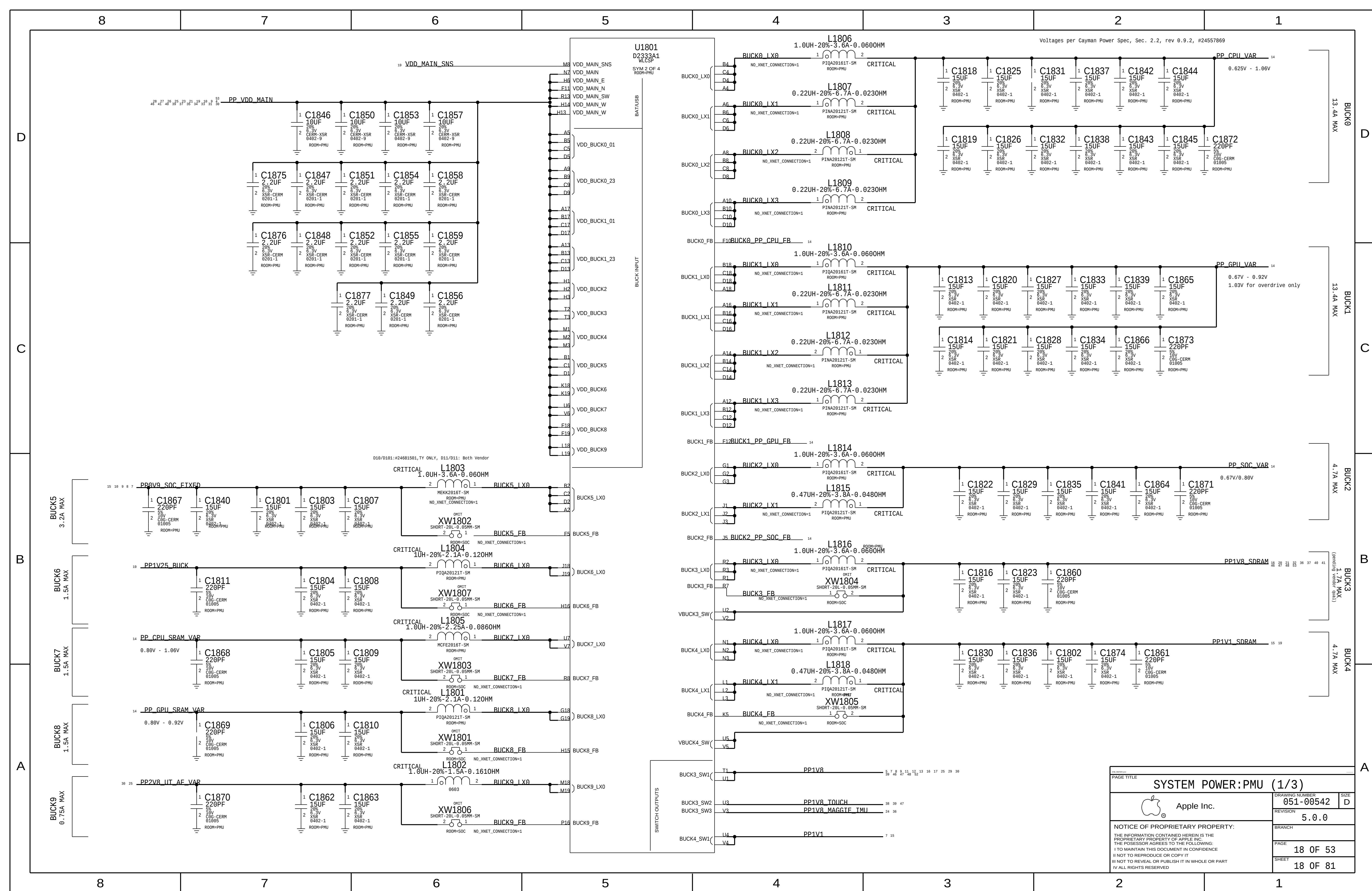
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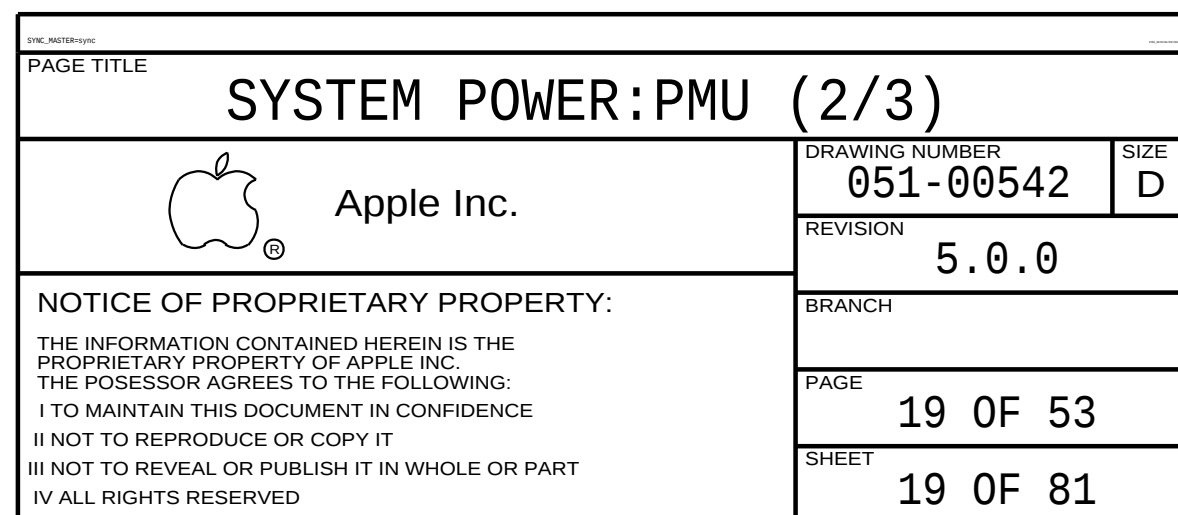
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SOC - POWER SUPPLIES







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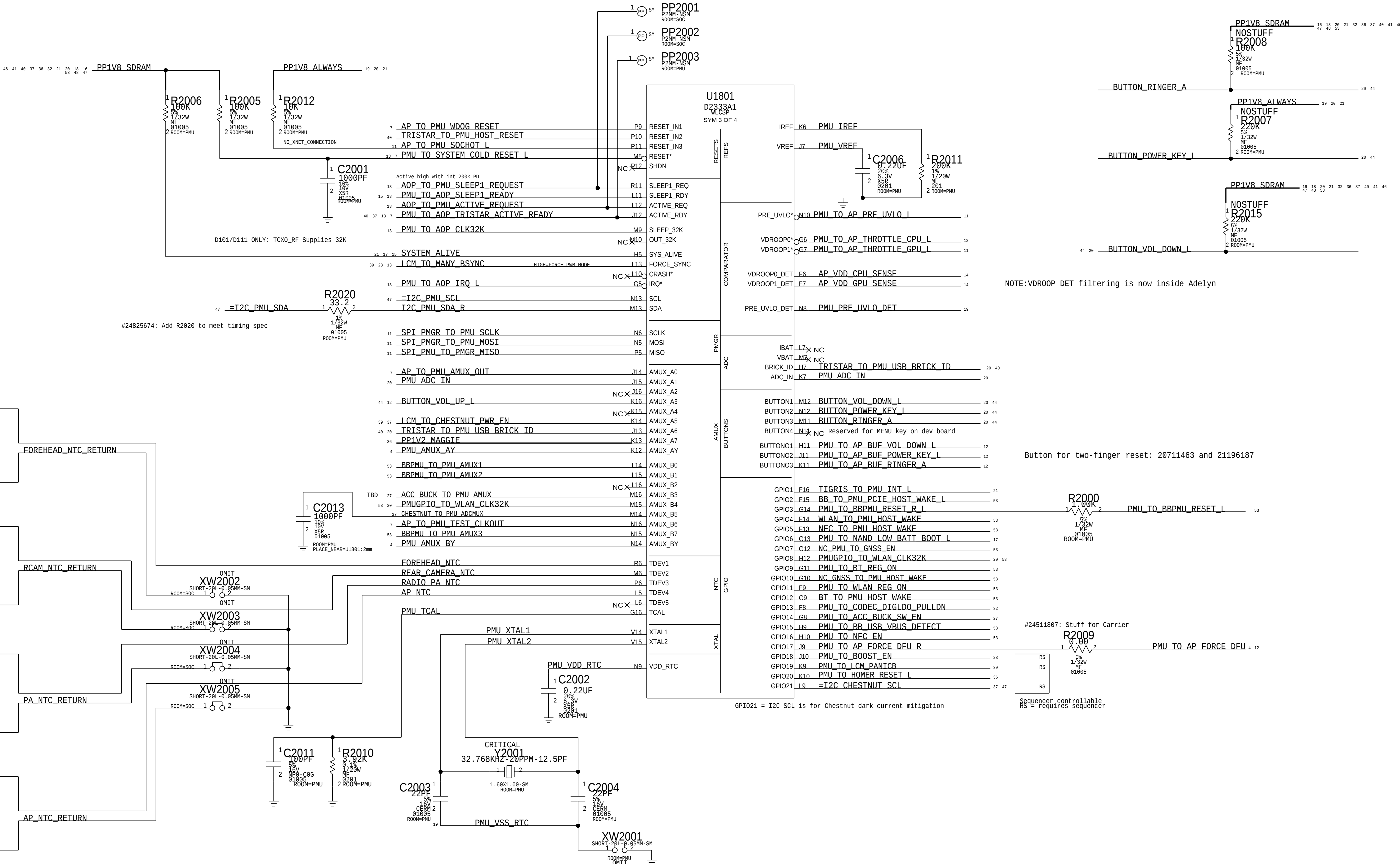
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BUTTON PULL-UP RESISTORS



NOTE:VDR00P_DET filtering is now inside Adelyn

Button for two-finger reset: 20711463 and 21196187

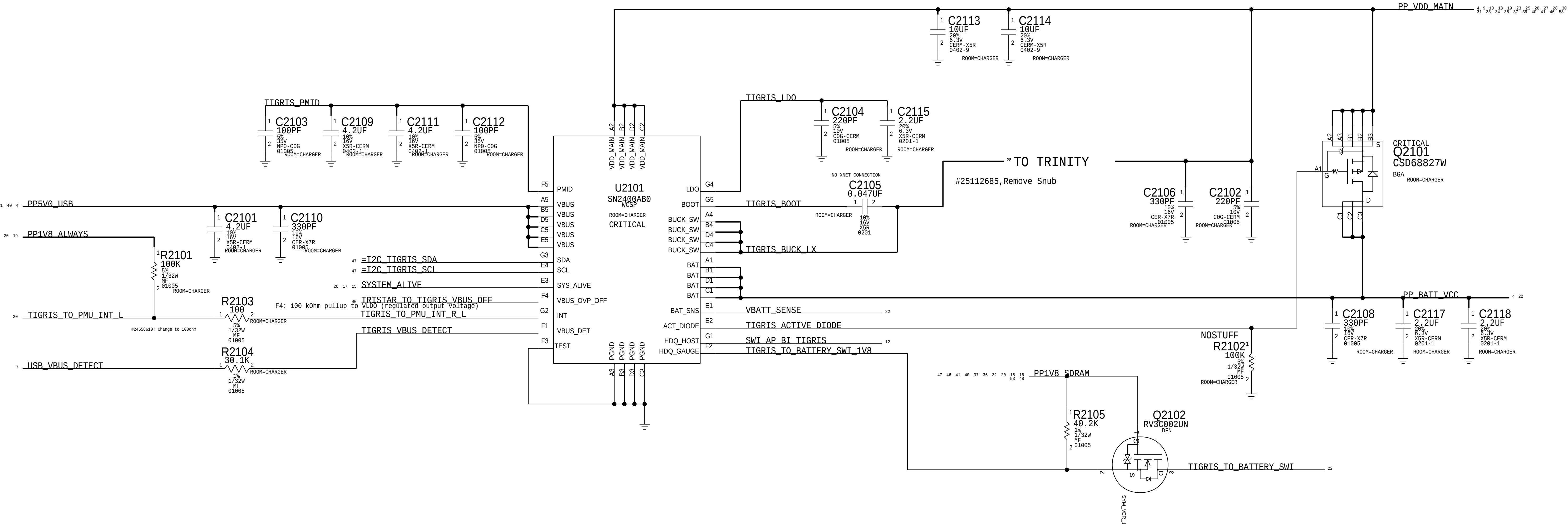
#24511807: Stuff for Carrier

Sequencer controllable
RS= requires sequencer

NOTE:100PF CAPS ARE THE SAMPLING CAPS FOR PMU ADC

SYSTEM POWER:PMU (3/3)			
PAGE TITLE		DRAWING NUMBER	SIZE
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TIGRIS CHARGER



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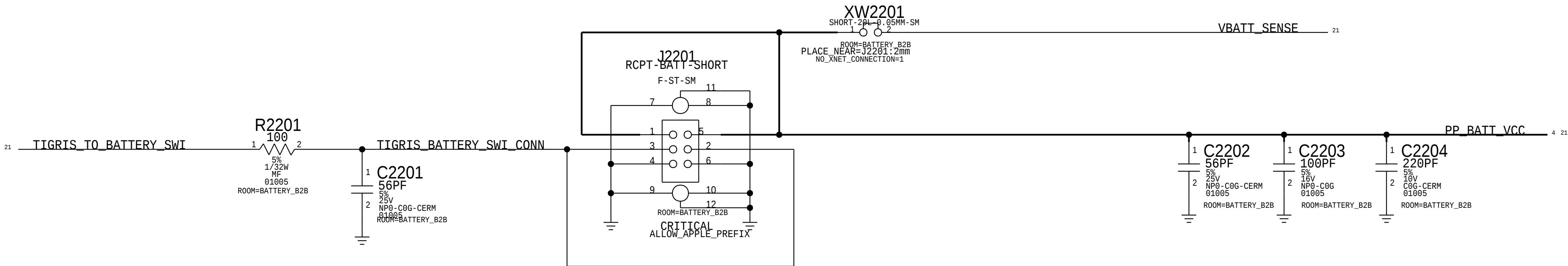
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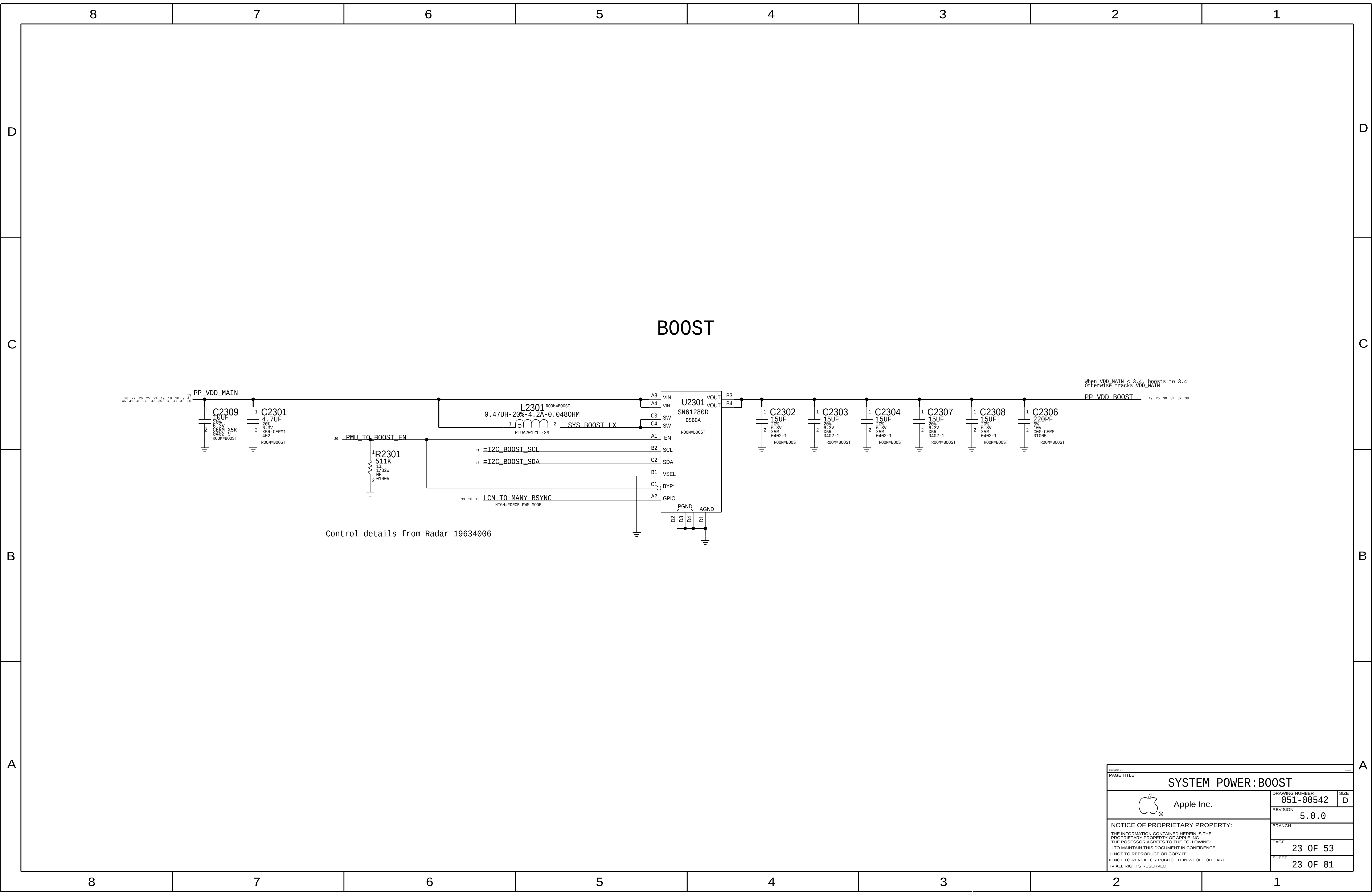
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BATTERY CONNECTOR

THIS ONE ON MLB ---> 516S00172 (matches d10 m1b MCO rev 27)

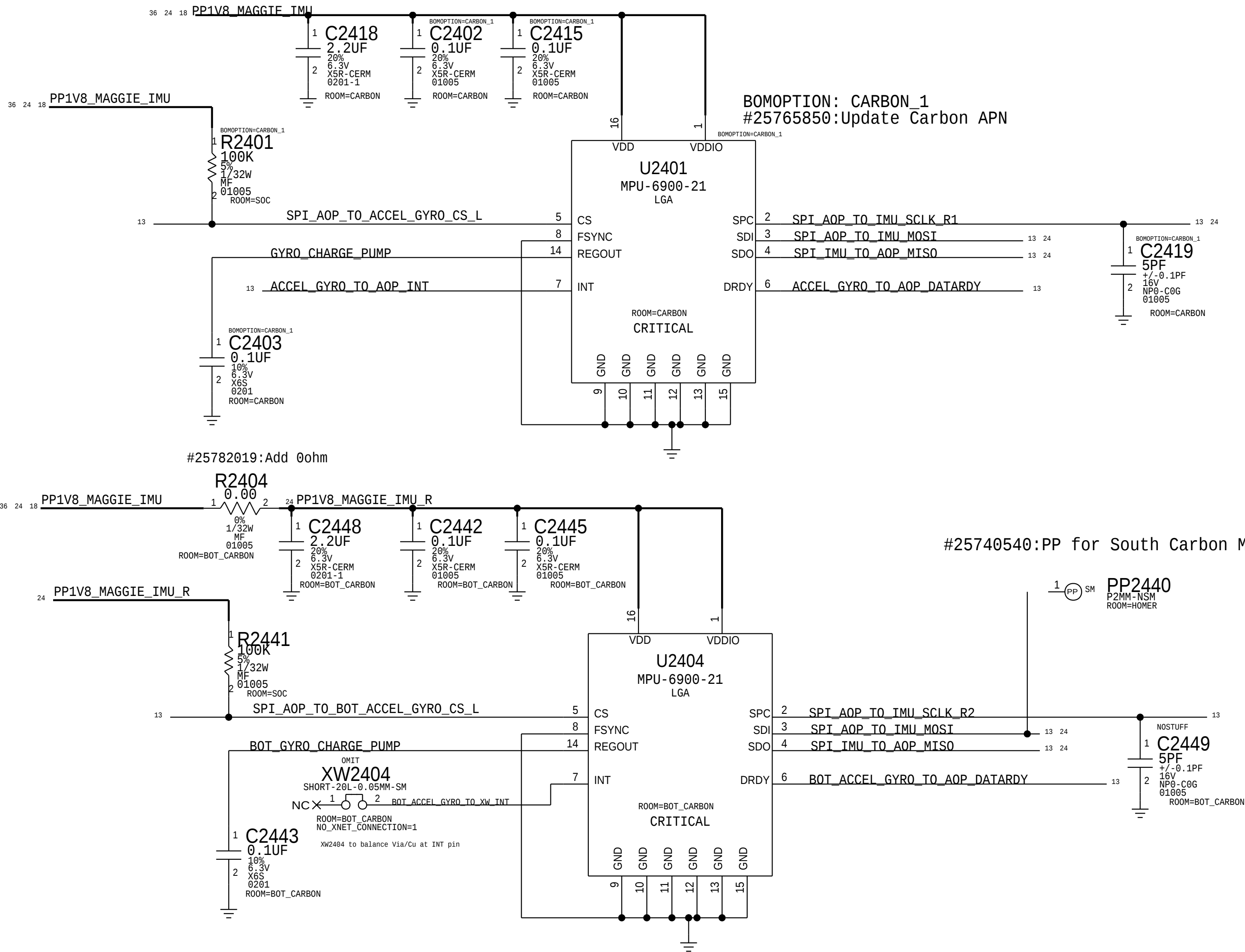


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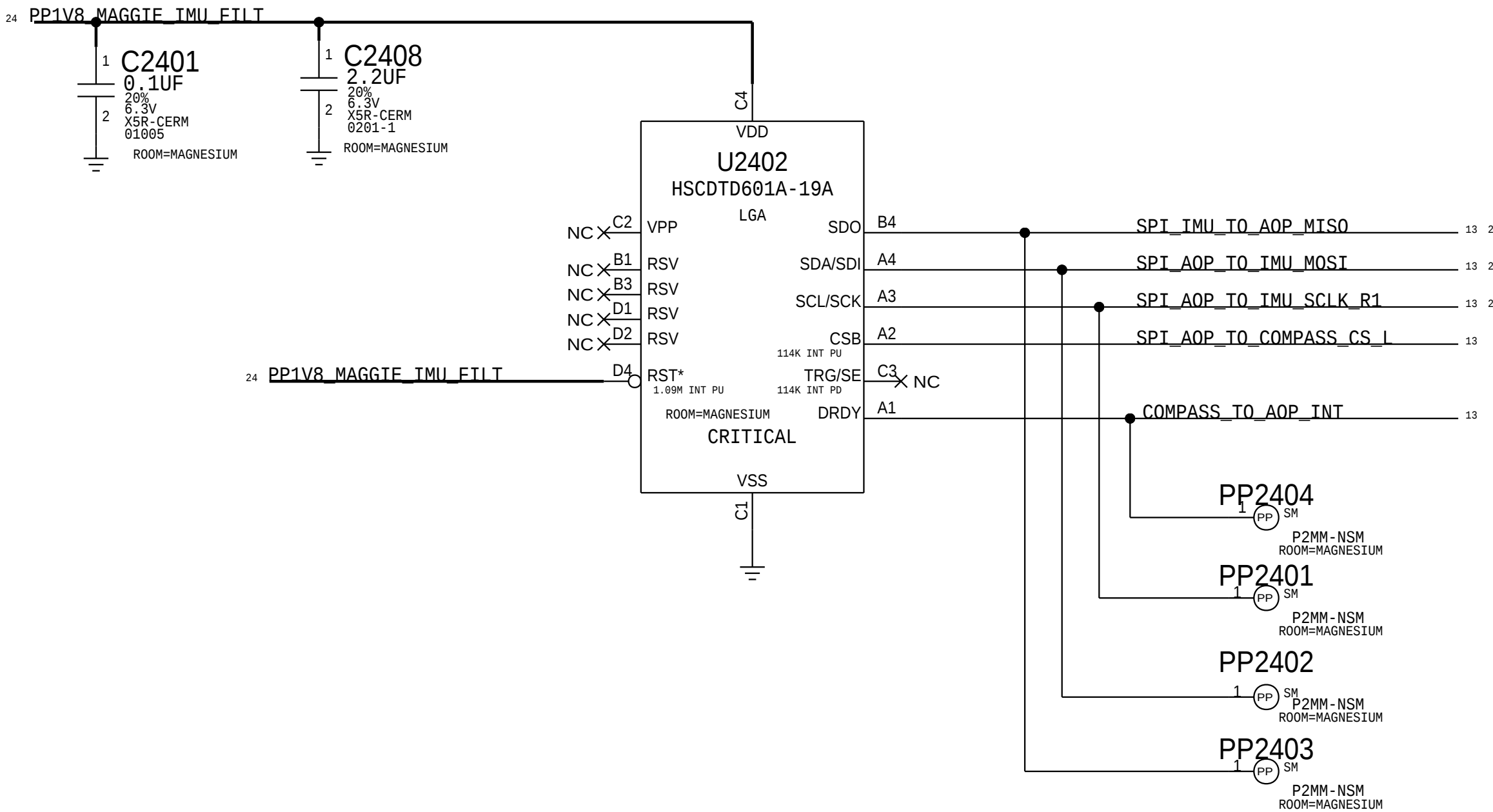


CARBON - ACCEL & GYRO

INVENSENSE, MPU-6800: C2403=0.1UF



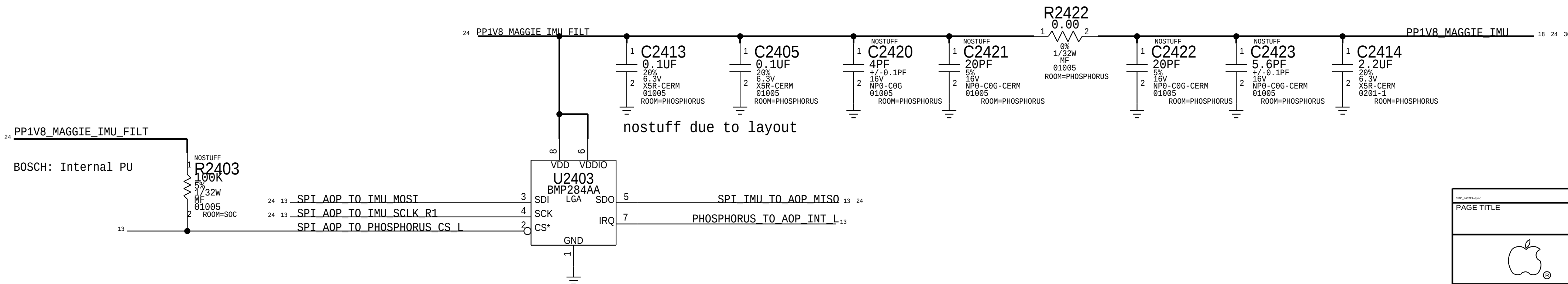
MAGNESIUM - COMPASS



PHOSPHORUS

#24593845

BOSCH (APN:338S00188): nostuff C2420/C2421/C2422/C2423 and R2403 PU
ST (APN:338S00230): stuff C2420-C2423, C2420R2422 with 155S00017, stuff R2403 PU
C2420=4pF(131S0253),C2405=3pF(131S0251) per #25691124

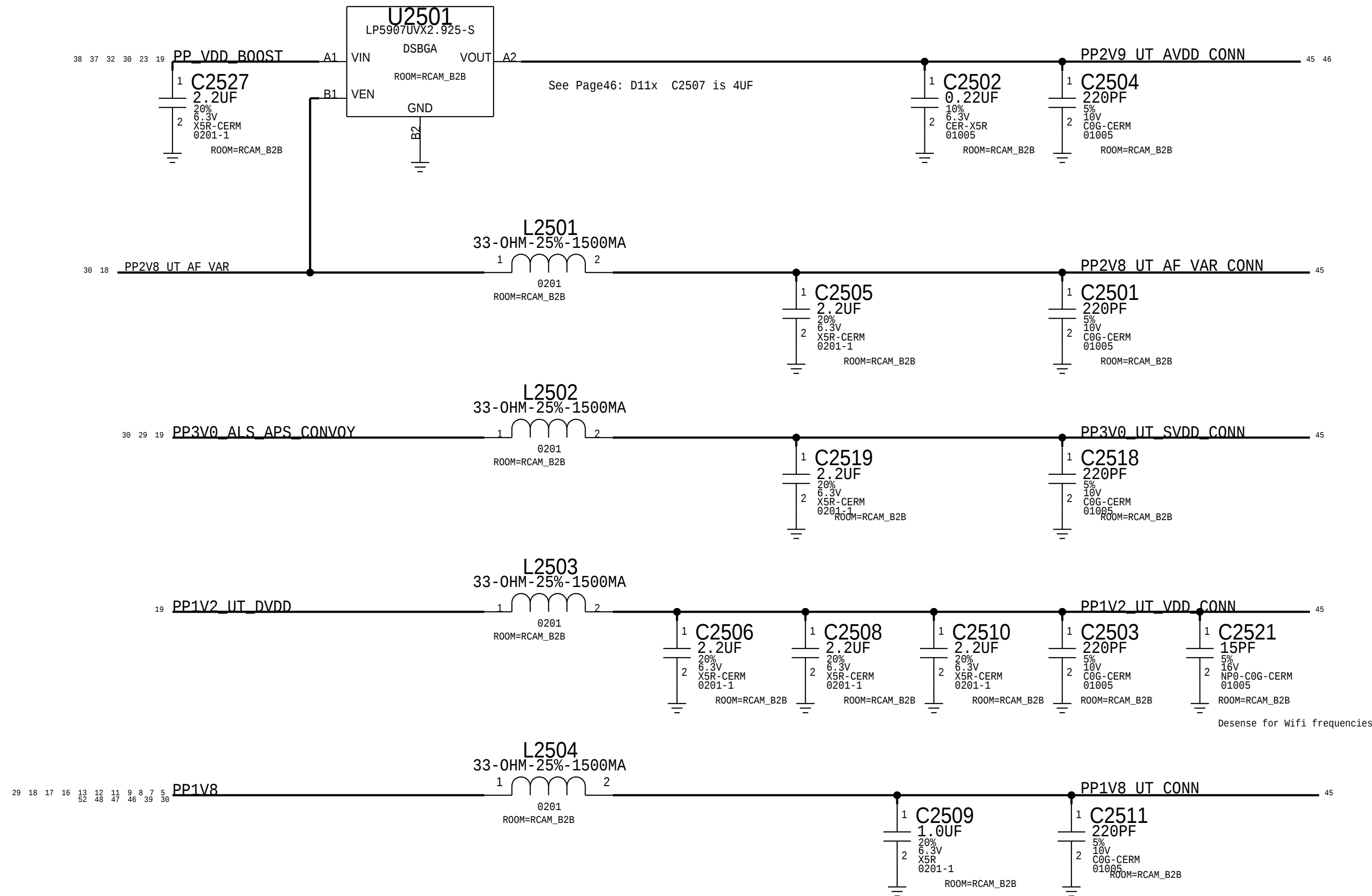


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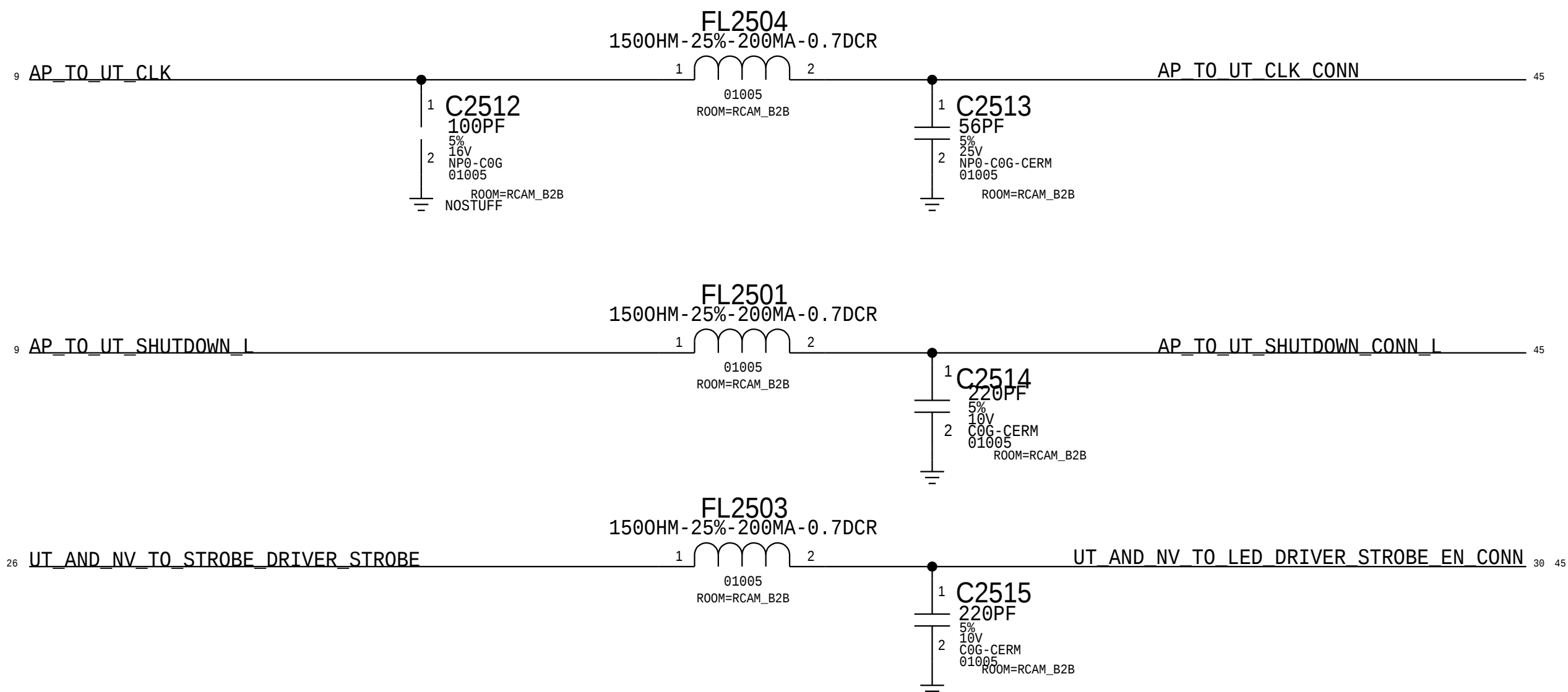
UTAH POWER

NOTE: OUTPUT IMPEDANCE MUST BE >0.005-OHM
IN ORDER TO MEET CAP ESR REQUIREMENT PER LDO SPEC.
VENDOR ALSO RECOMMENDS CIN = COUT FOR STABILITY

Scrub voltage selection

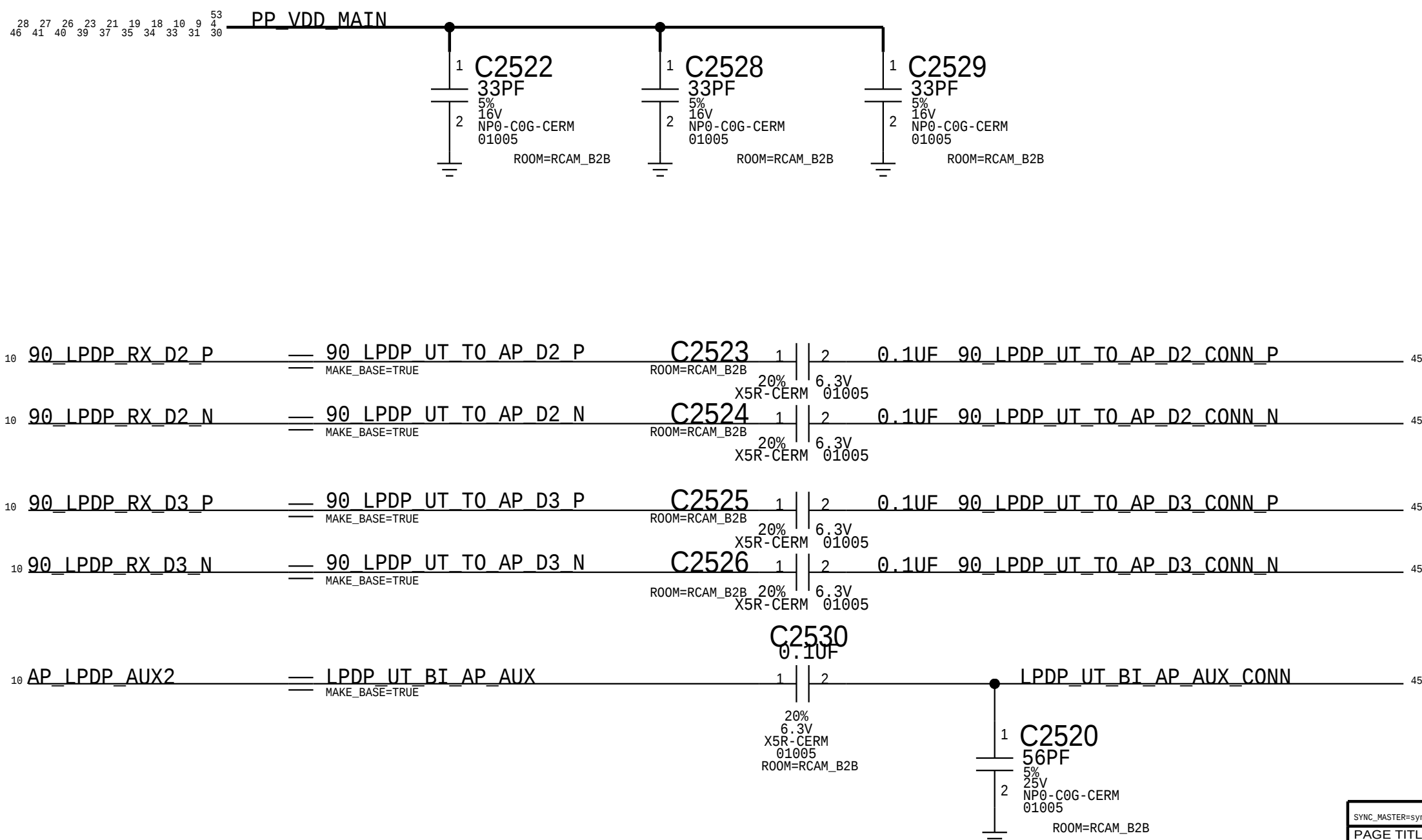


IO FILTERS



LPDP FILTERS

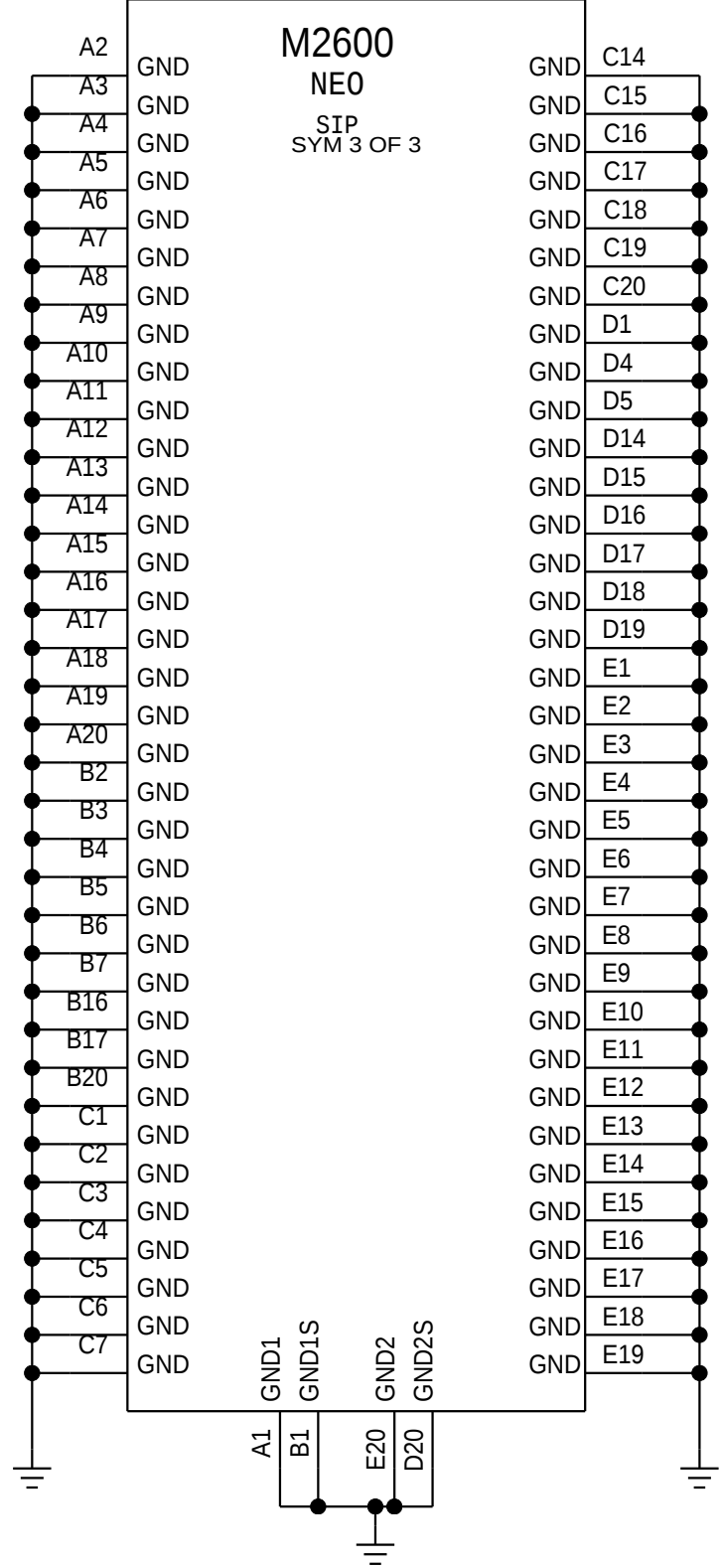
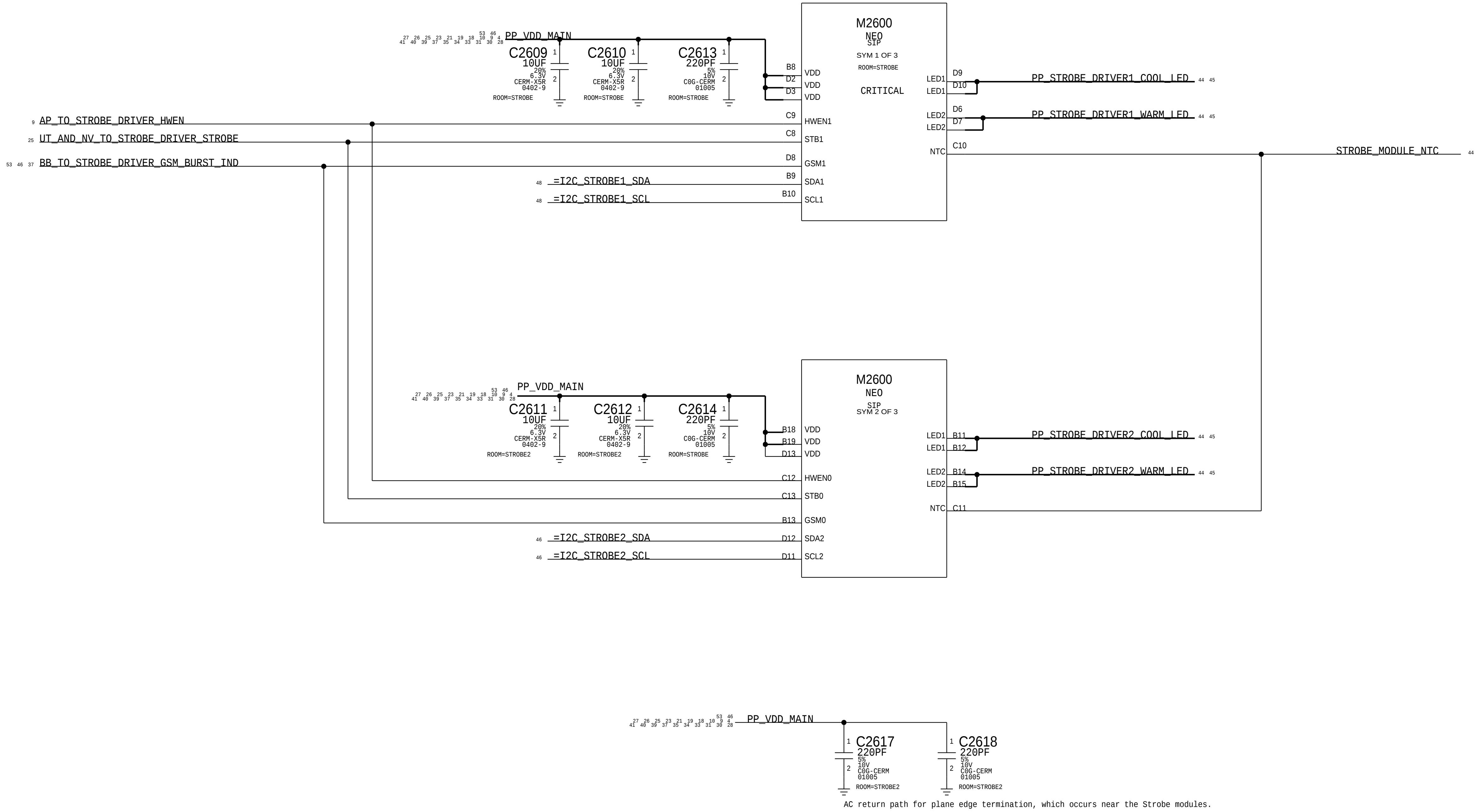
AC return path for LPDP which is referenced to GND and VDD_MAIN



PAGE TITLE			DRAWING NUMBER		SIZE
B2B FILTERS: UTAH			051-00542		D
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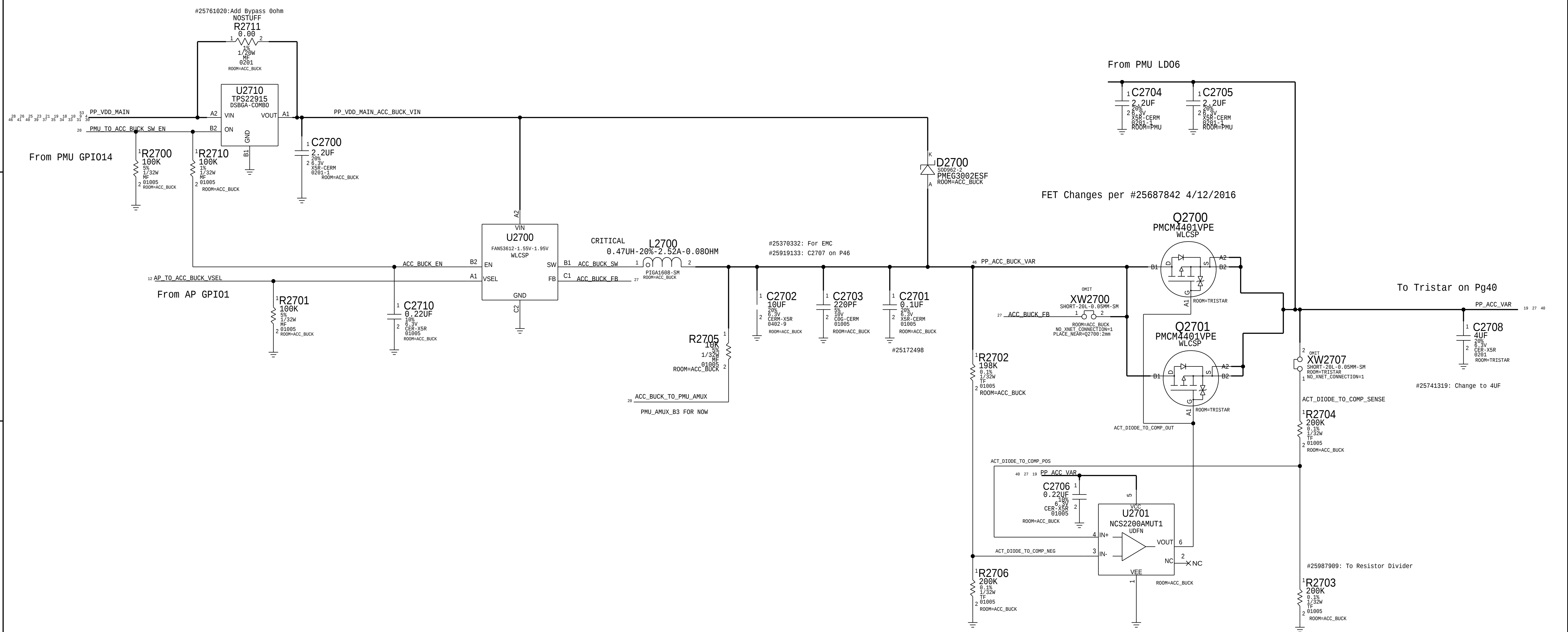
STROBE DRIVERS INSIDE NEO SIP MODULE

D10/sip_neo

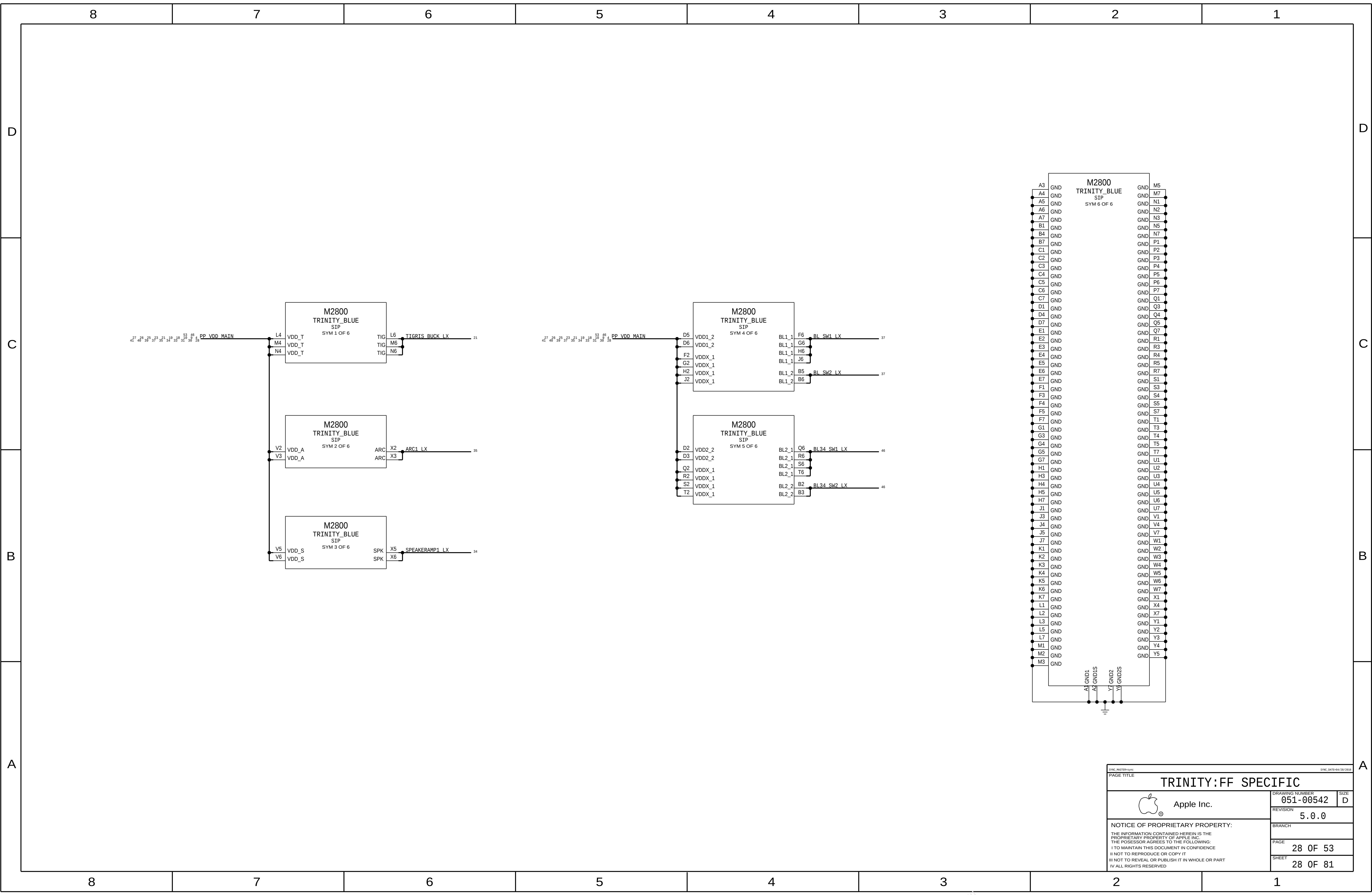


PAGE TITLE			
CAMERA:STROBE DRIVER			
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ACCESSORY BUCK



EVMC_MASTER=sync		EVMC_DATE=84/28/2016	
PAGE TITLE			
Accessory: Buck Circuit			
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SYNCHMASTERsync		SYNCHMASTERsync	
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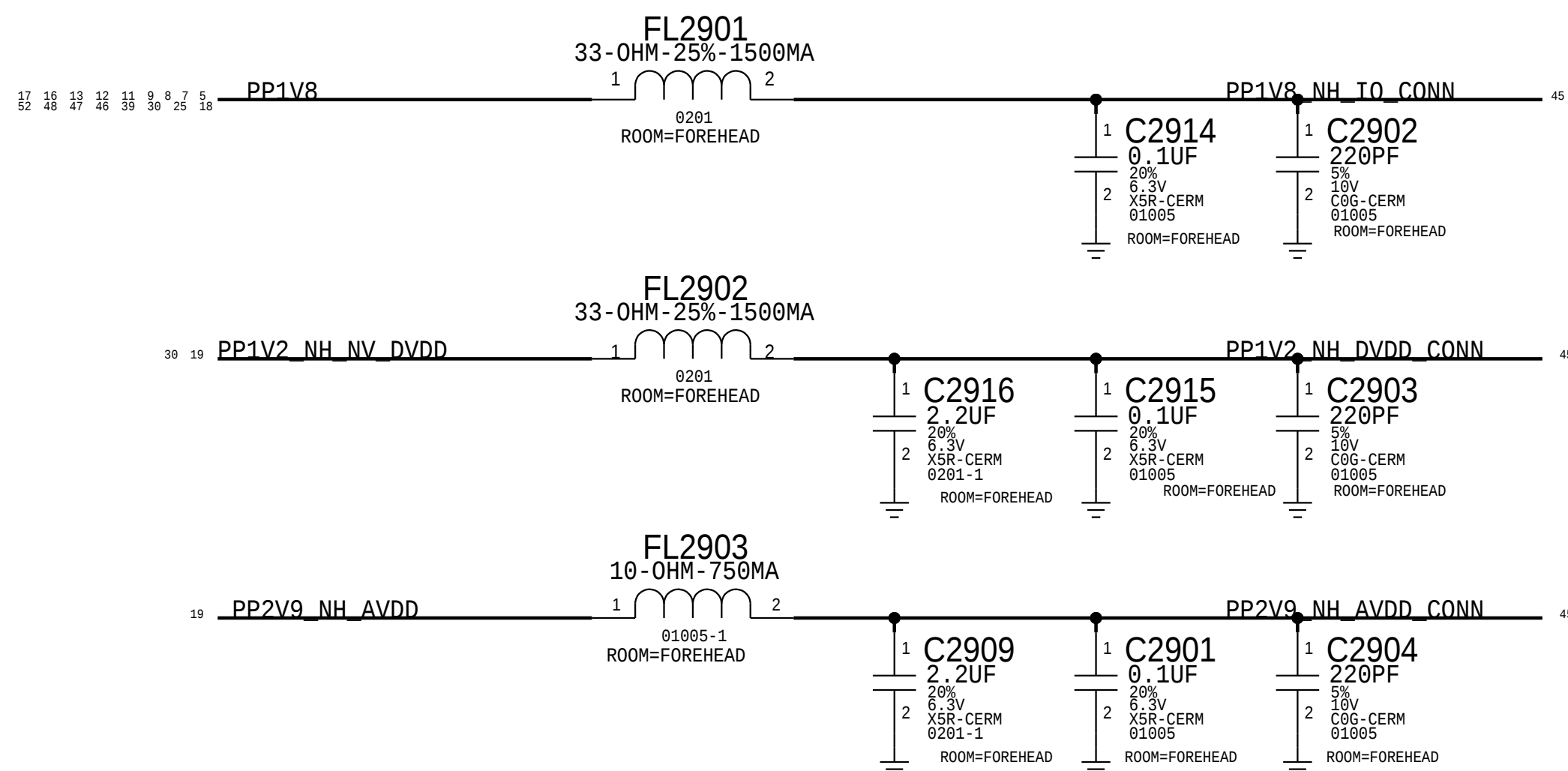
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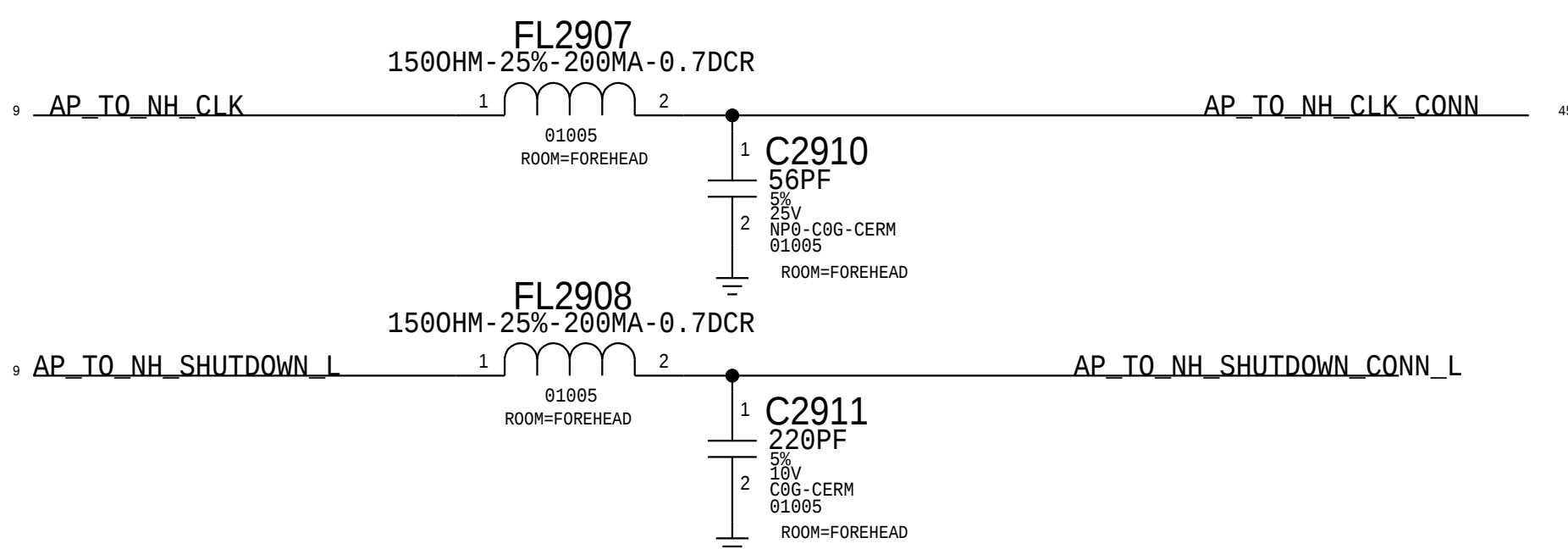
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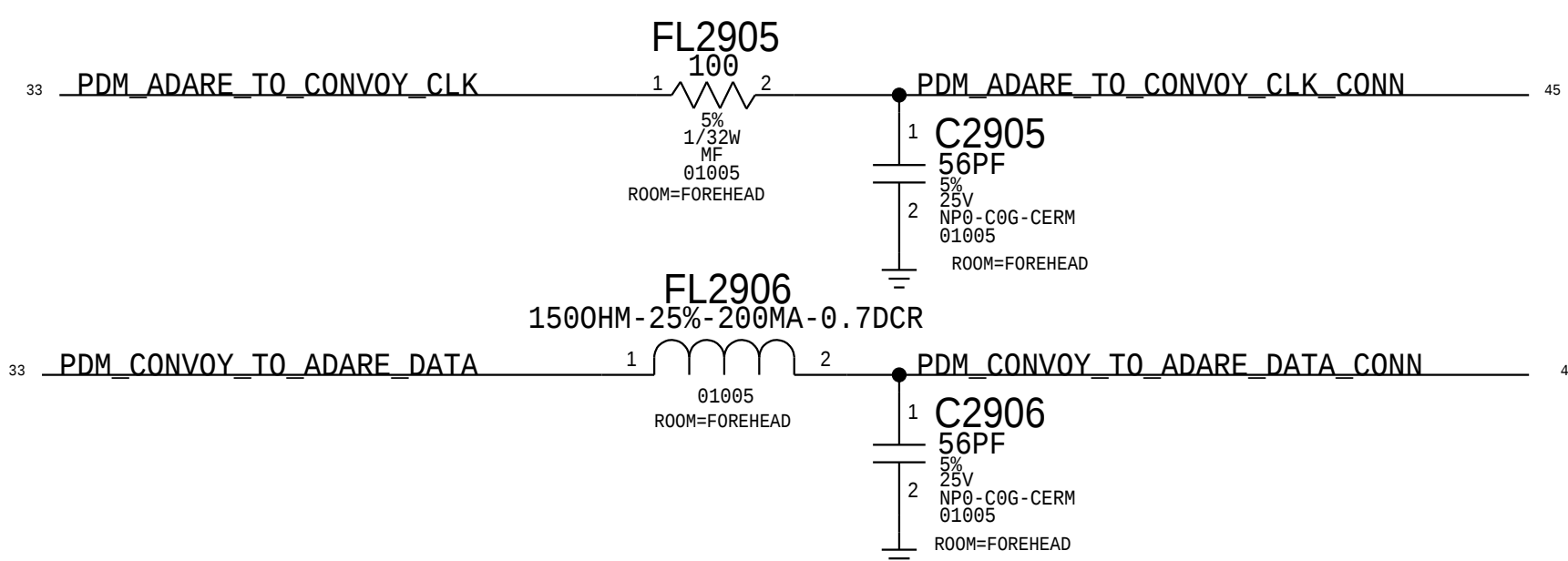
NEW HAMPSHIRE POWER



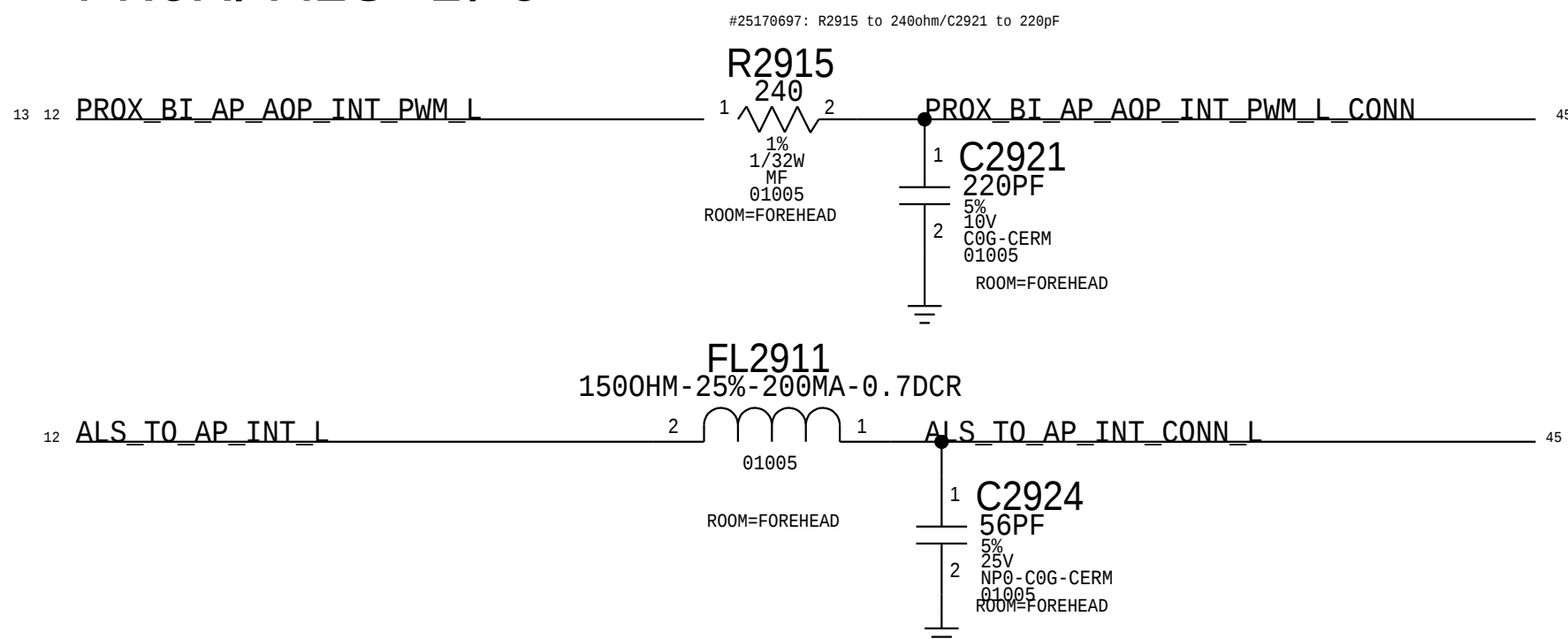
NEW HAMPSHIRE I/O



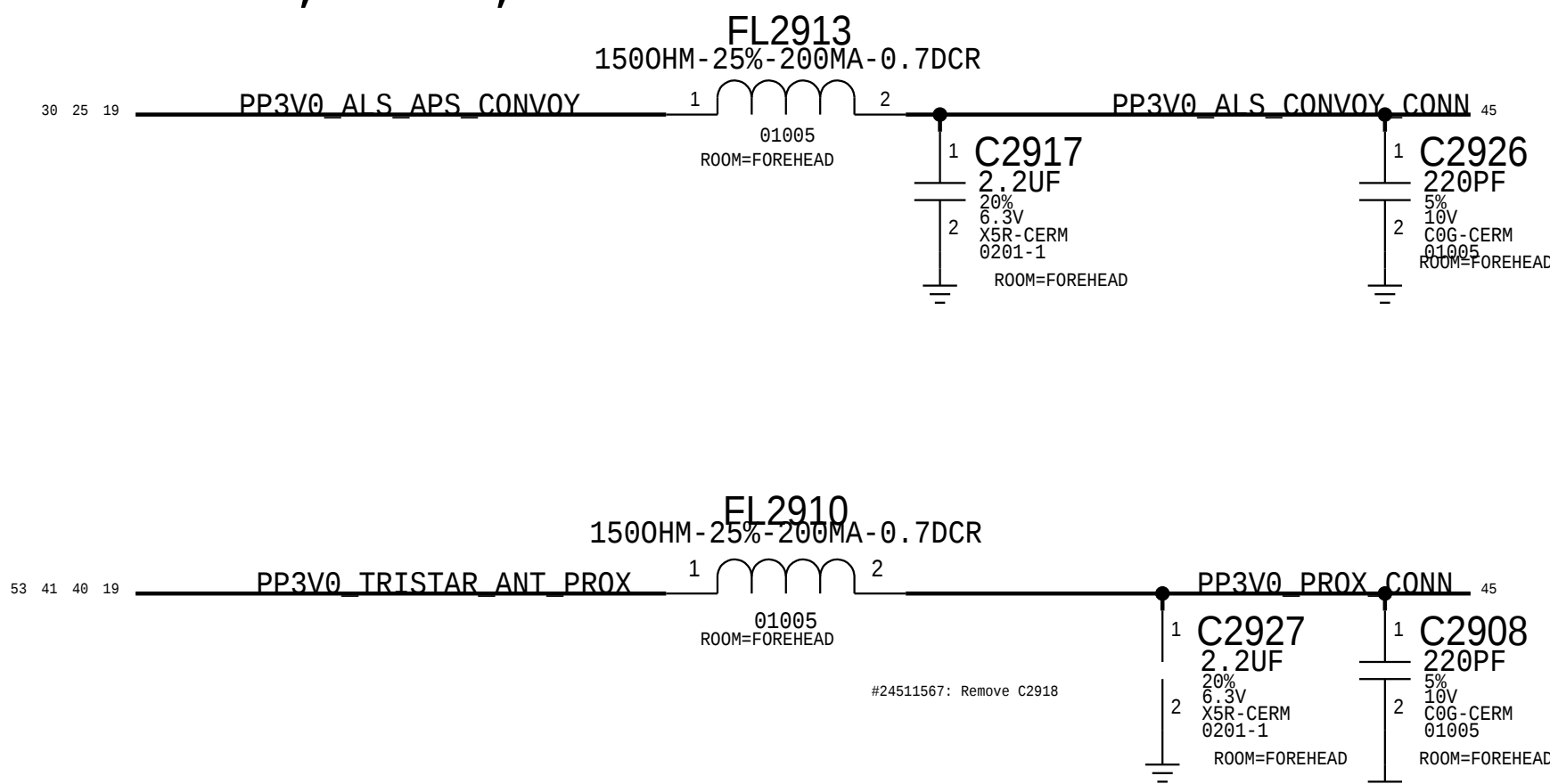
CONVOY I/O



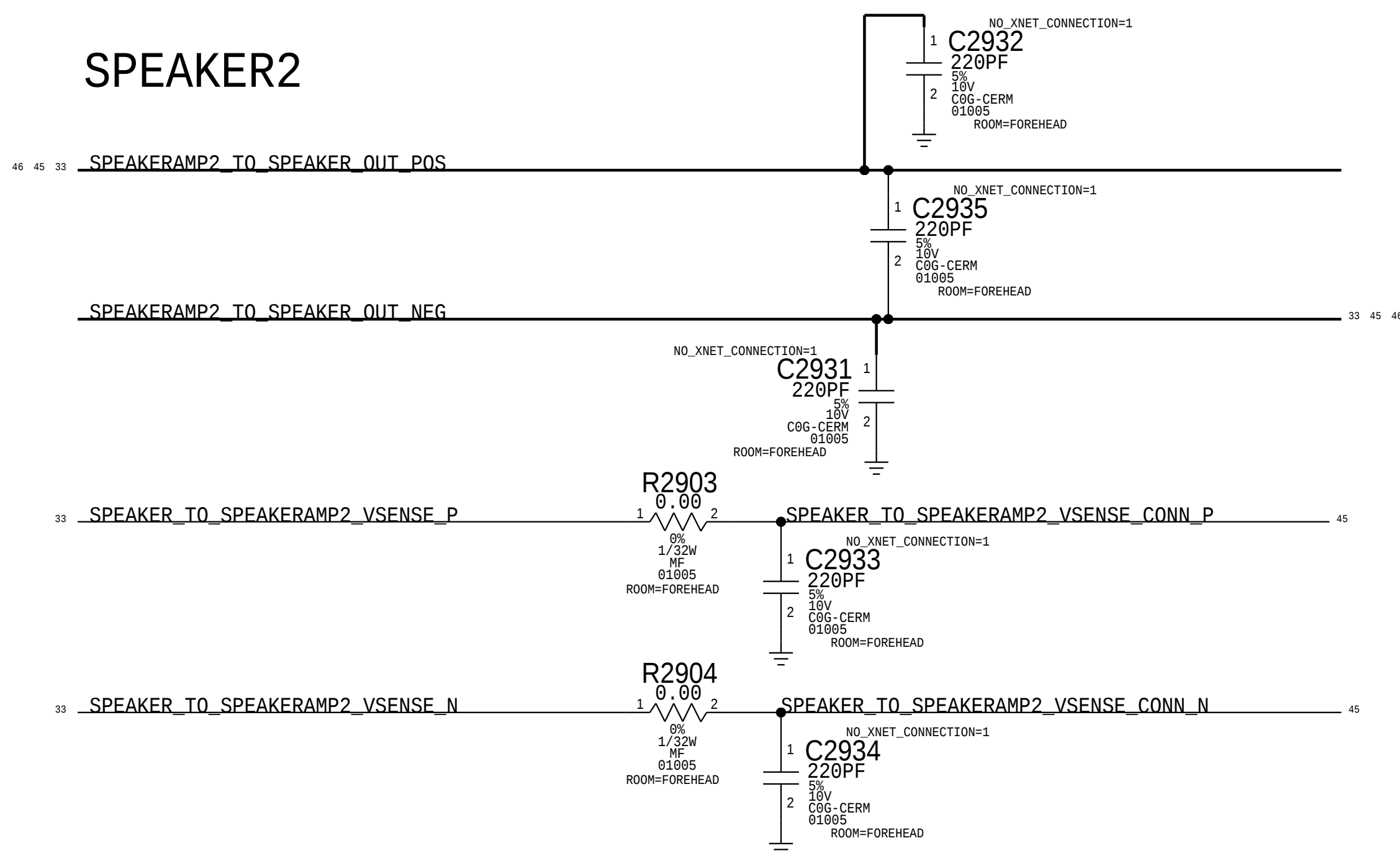
PROX/ALS I/O



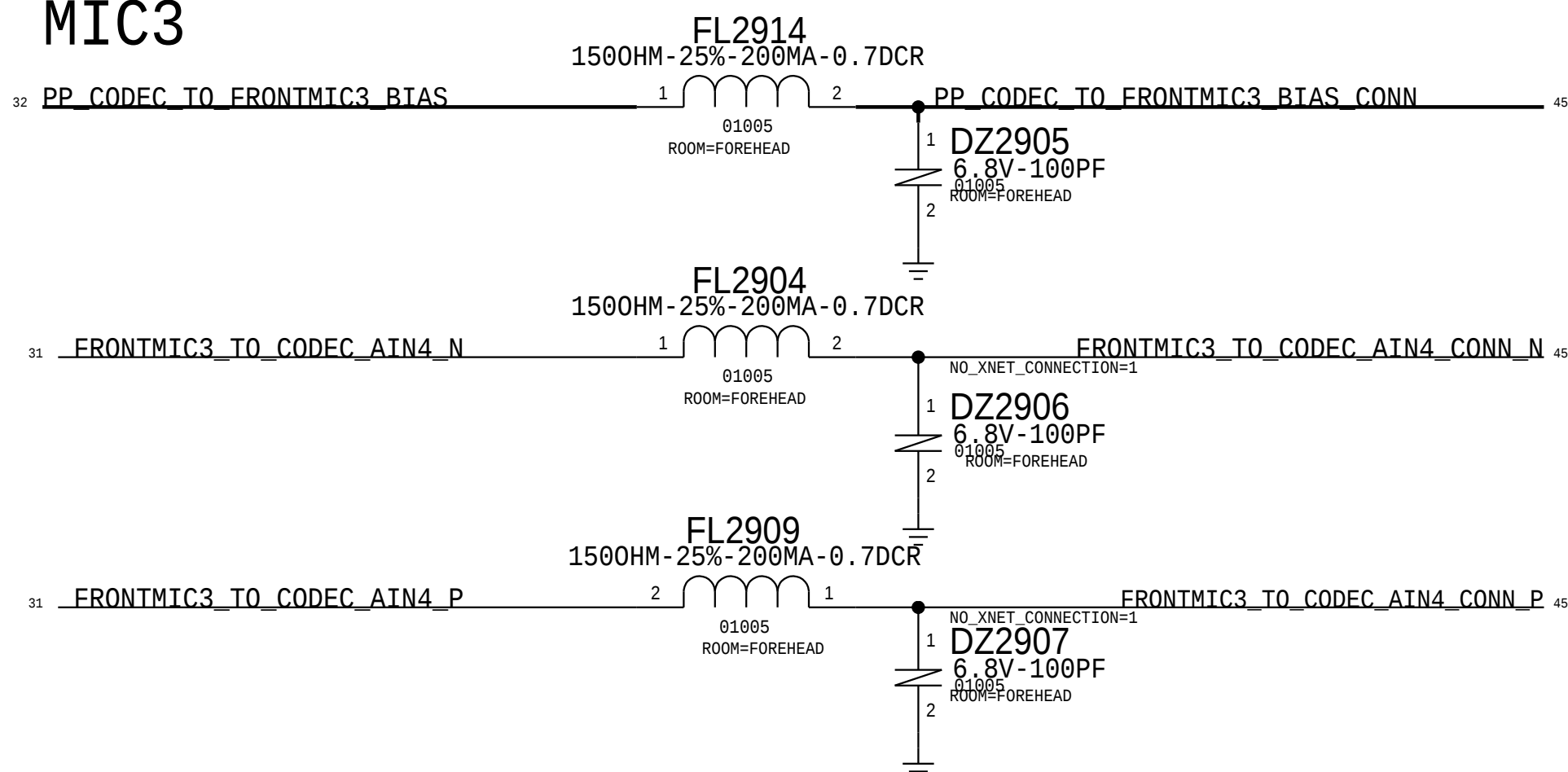
PROX, ALS, & CONVOY POWER



SPEAKER2



MIC3



PAGE TITLE			
B2B: FOREHEAD			
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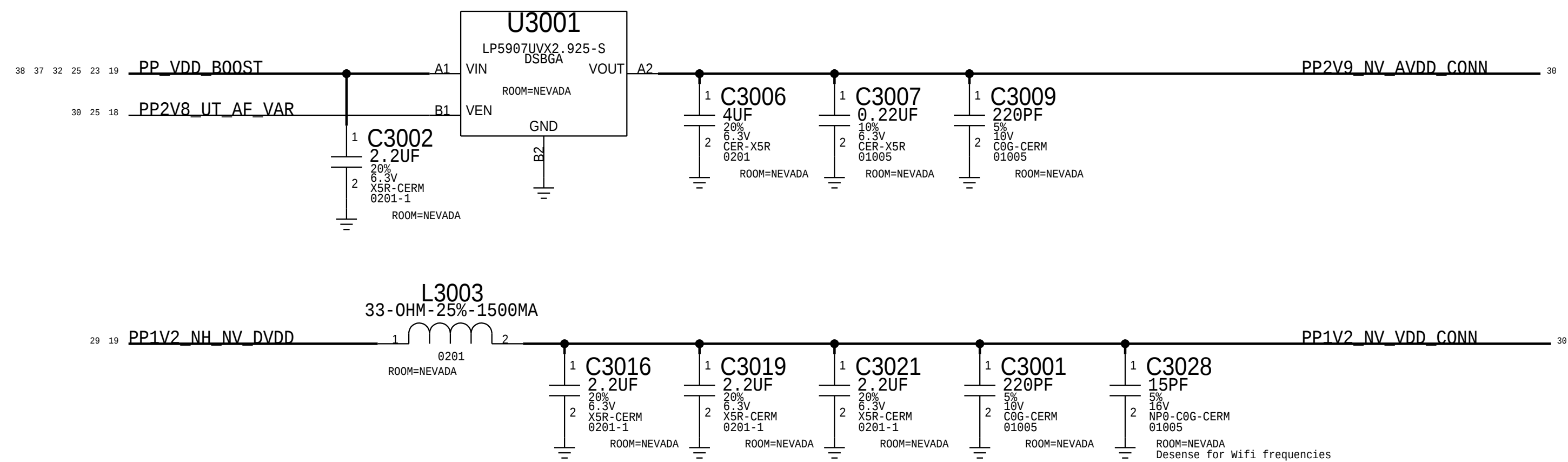
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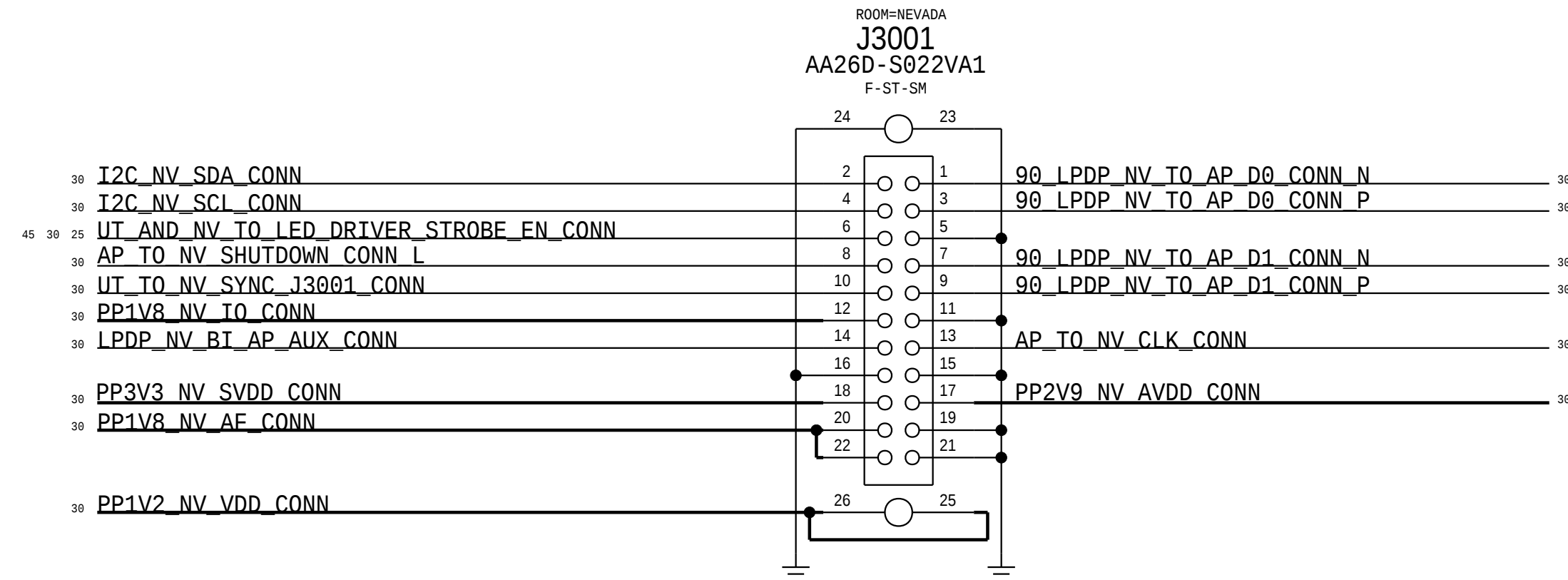
NEVADA POWER

NOTE: OUTPUT IMPEDANCE MUST BE >0.005-OHM
IN ORDER TO MEET CAP ESR REQUIREMENT PER LDO SPEC.
VENDOR ALSO RECOMMENDS CIN = COUT FOR STABILITY

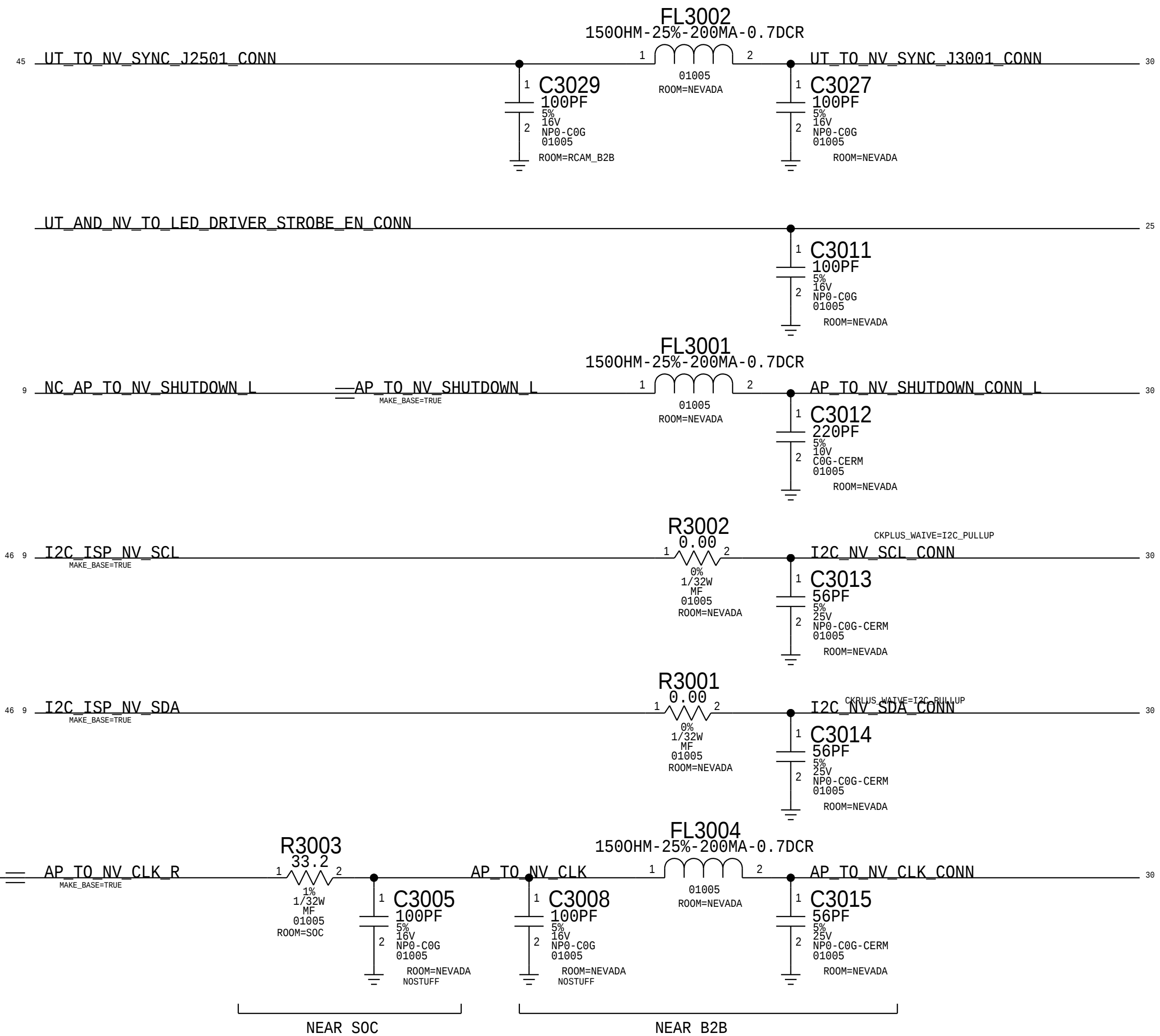


NEVADA CONNECTOR

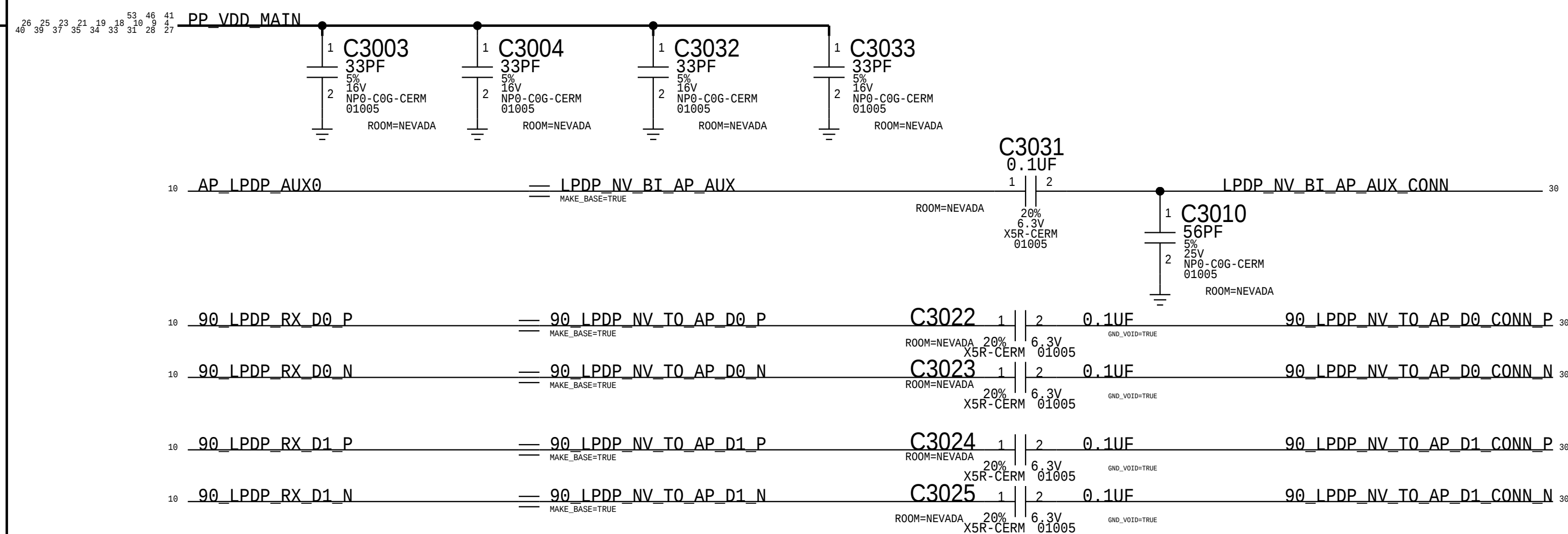
THIS ONE ---> 516S00152 RCPT (USED ON MLB)
516S00151 PLUG



GPIO FILTERS



LPDP FILTERS



THIS PAGE UNIQUE TO LARGE FORM FACTOR

OTHER FORM FACTOR SPECIFIC PAGES:
4 - Mechanical
46 - FF Specific

B2B:NEVADA

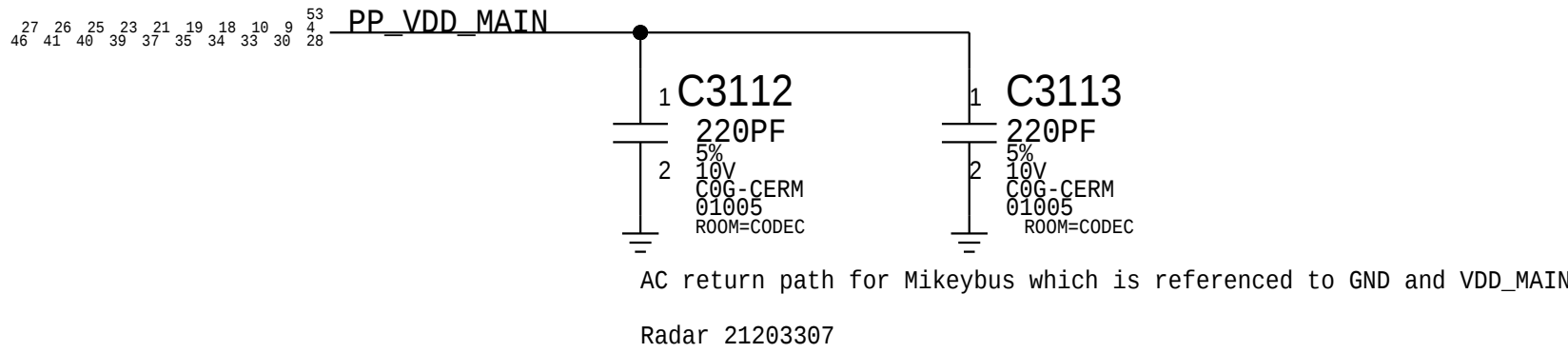
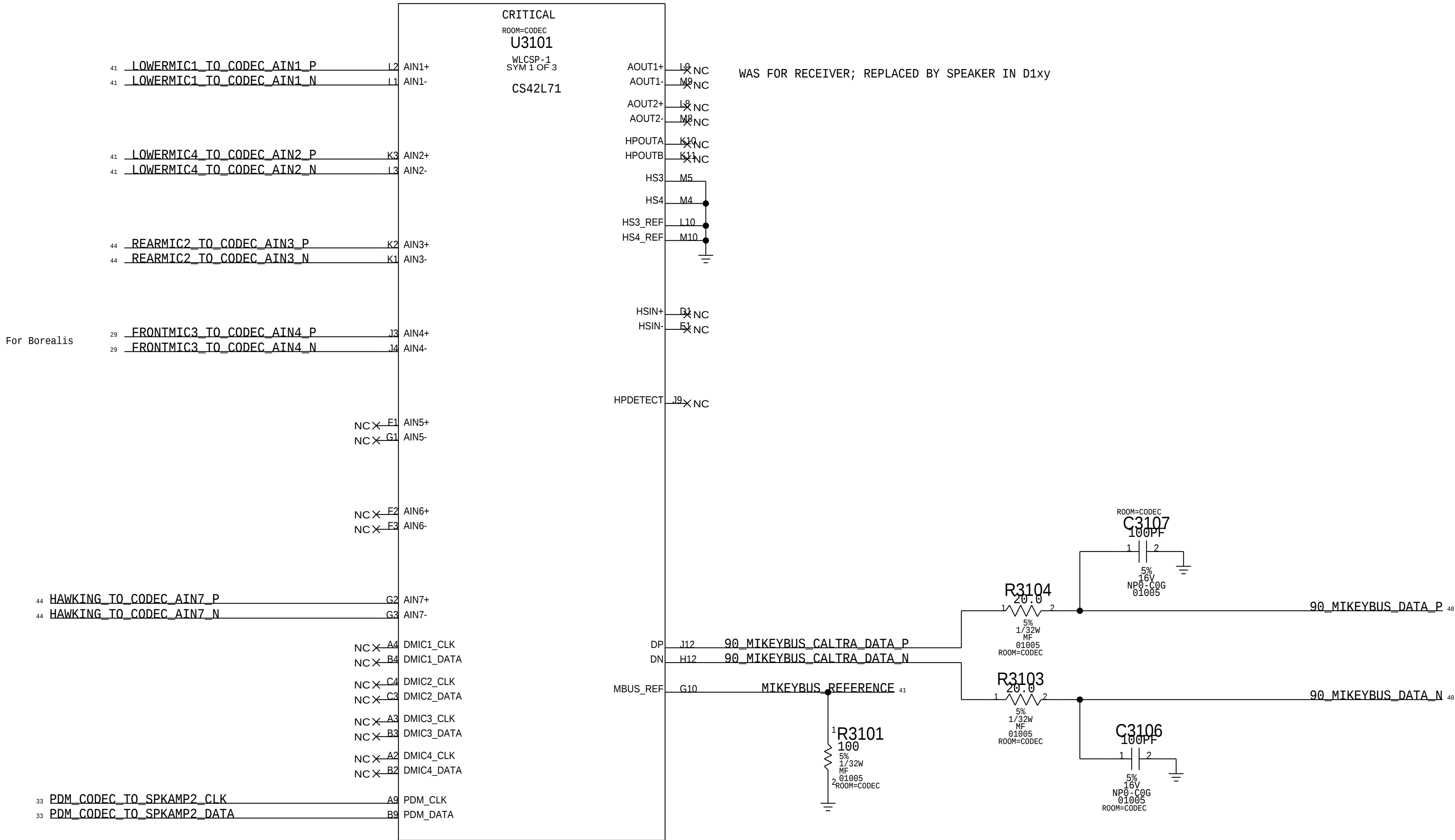


Apple Inc.

DRAWING NUMBER	051-00542	SIZE	D
REVISION	5.0.0	BRANCH	
PAGE	30 OF 53	PAGE	
SHEET	30 OF 81	SHEET	

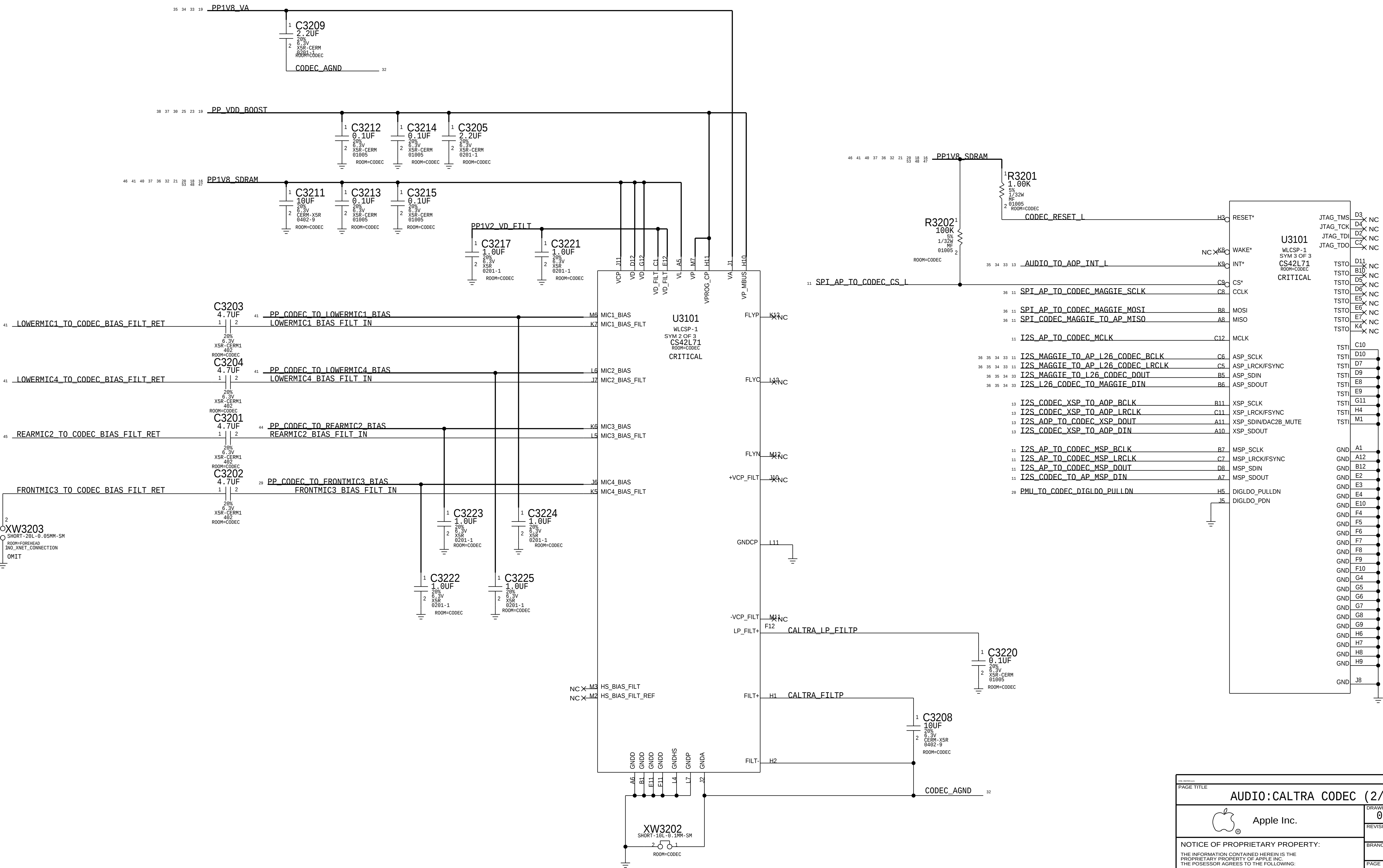
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CALTRA AUDIO CODEC (ANALOG INPUTS & OUTPUTS)



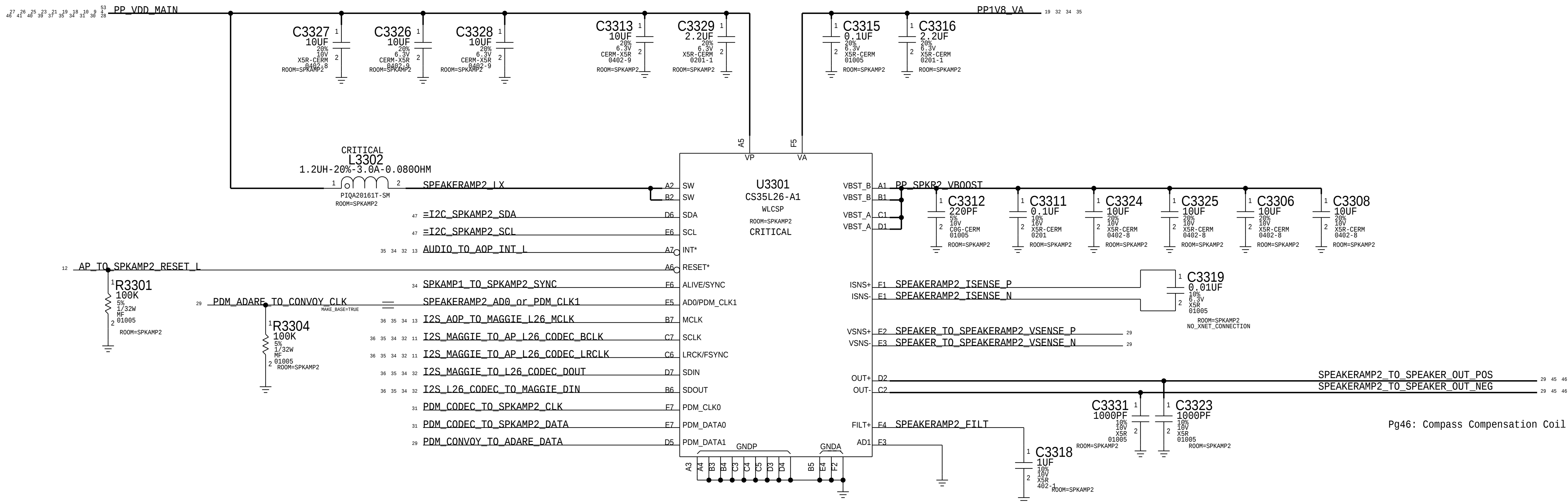
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III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		31 OF 81
IV ALL RIGHTS RESERVED		

CALTRA AUDIO CODEC (POWER & I/O)

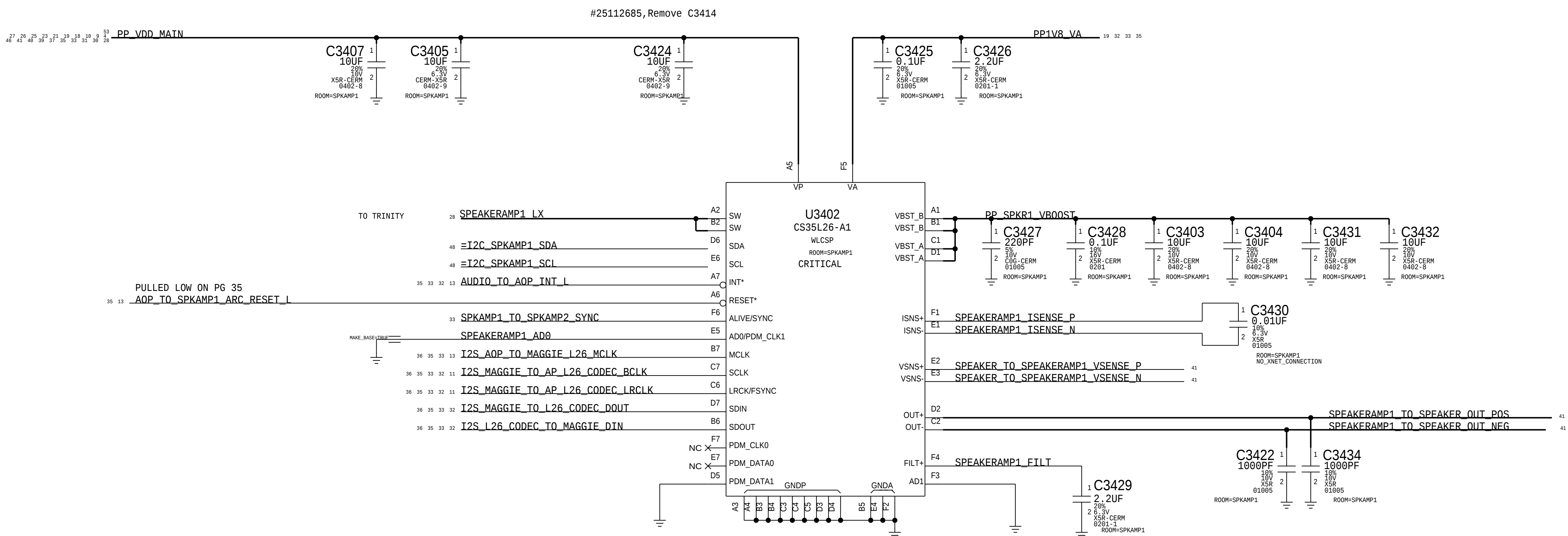


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AUDIO:CALTRA CODEC (2/2)			
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I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		SHEET	32 OF 81
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SPEAKER AMPLIFIER 2 (North)

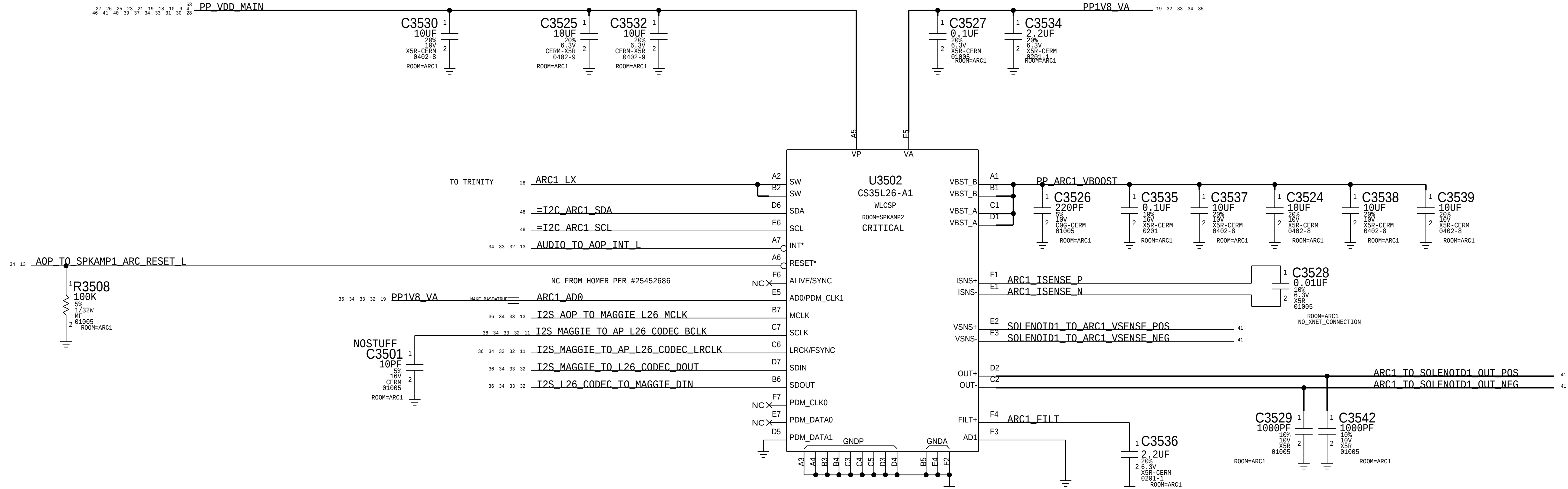


SPEAKER AMPLIFIER 1 (South)



PAGE TITLE		
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ARC DESIGN



 Apple Inc.		DRAWING NUMBER 051-000542 REVISION 5.0.0		SIZE D
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D

C

B

A

D

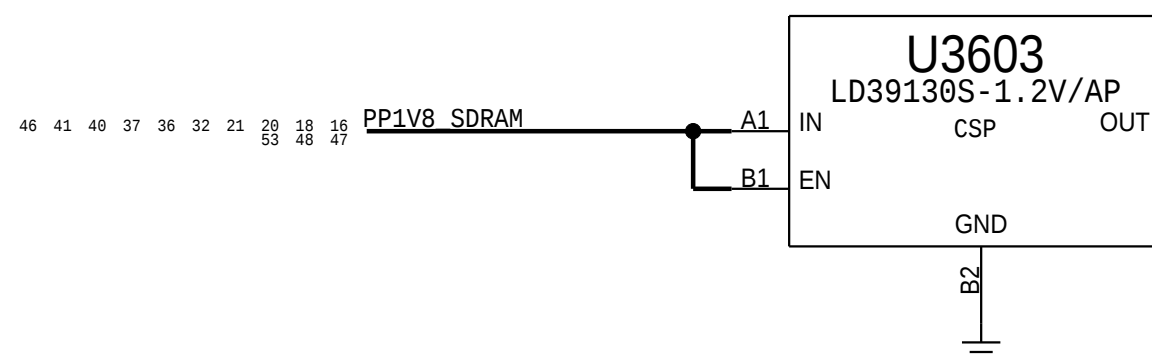
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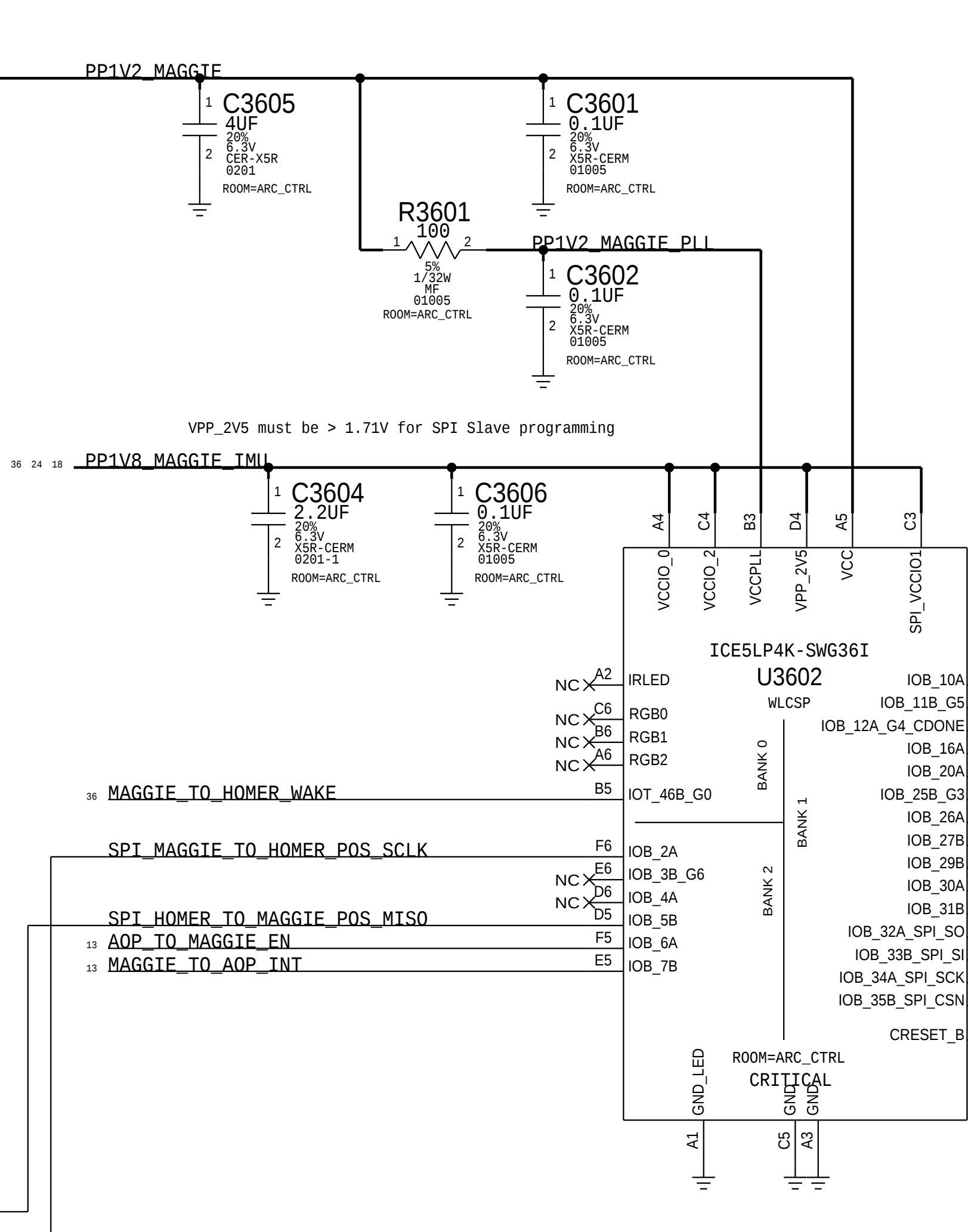
MAGGIE LDO

APN: 353S00842



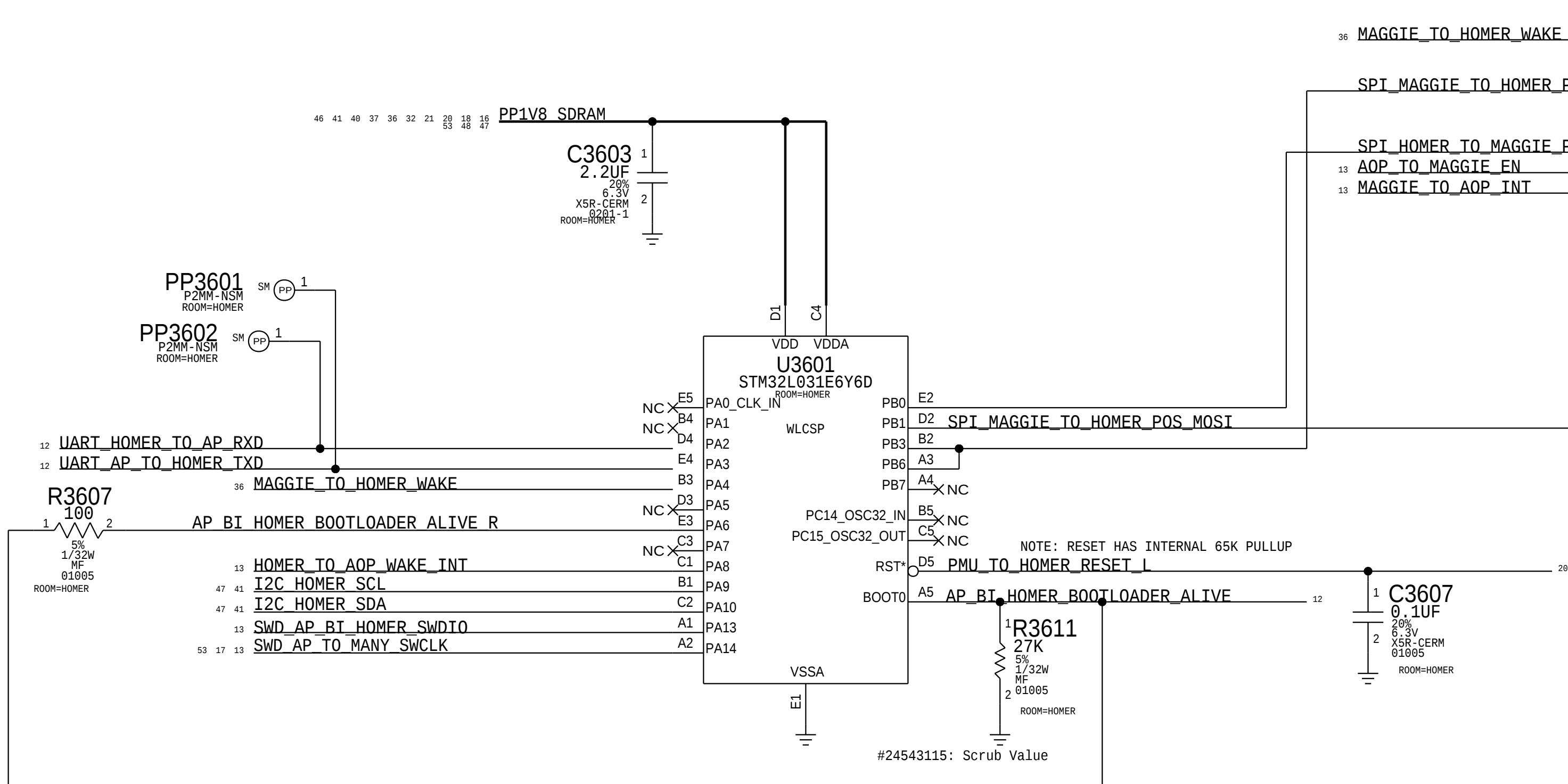
MAGGIE

APN: 336S00020



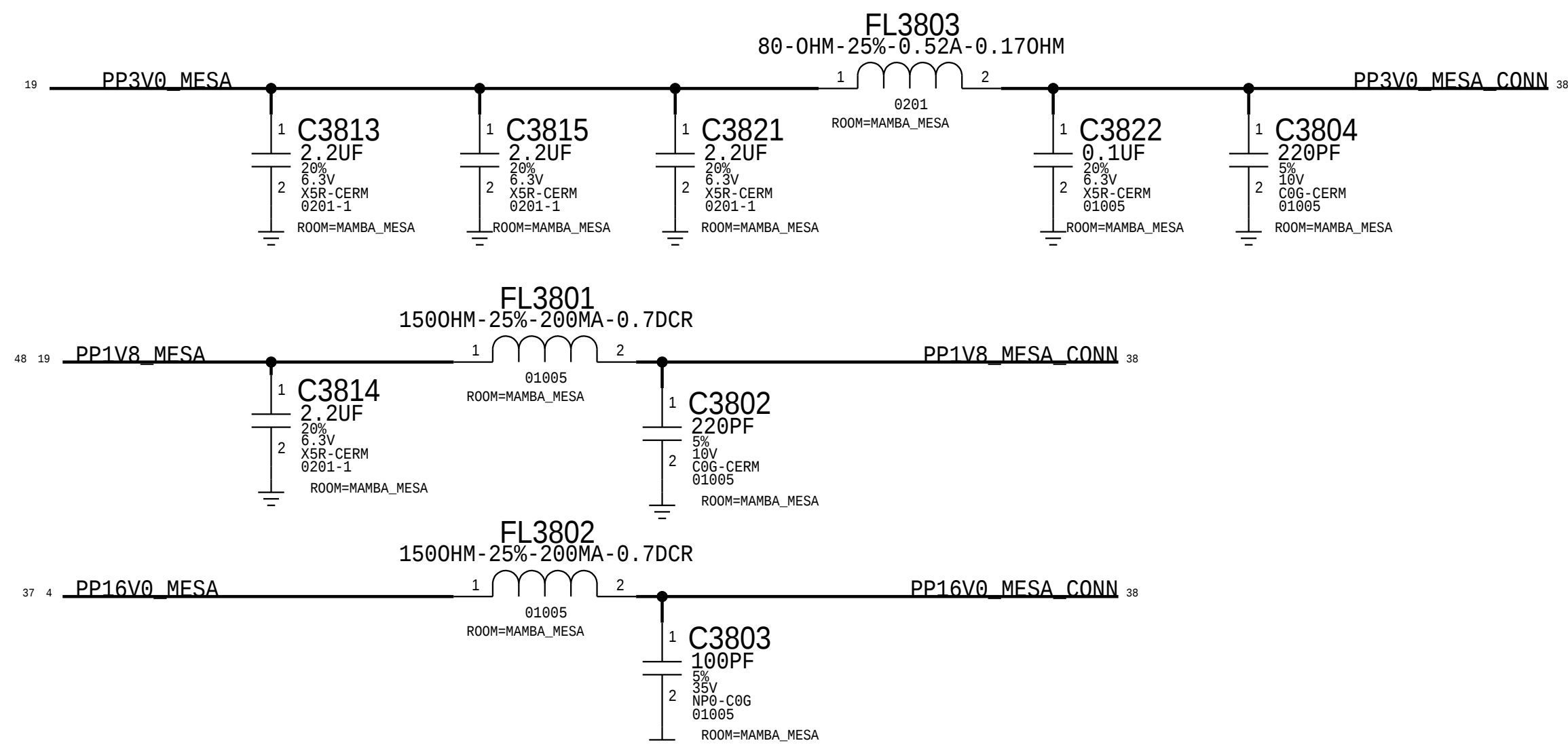
HOMER STM32L0 MICRO

STM32L03 APN: 337S00231

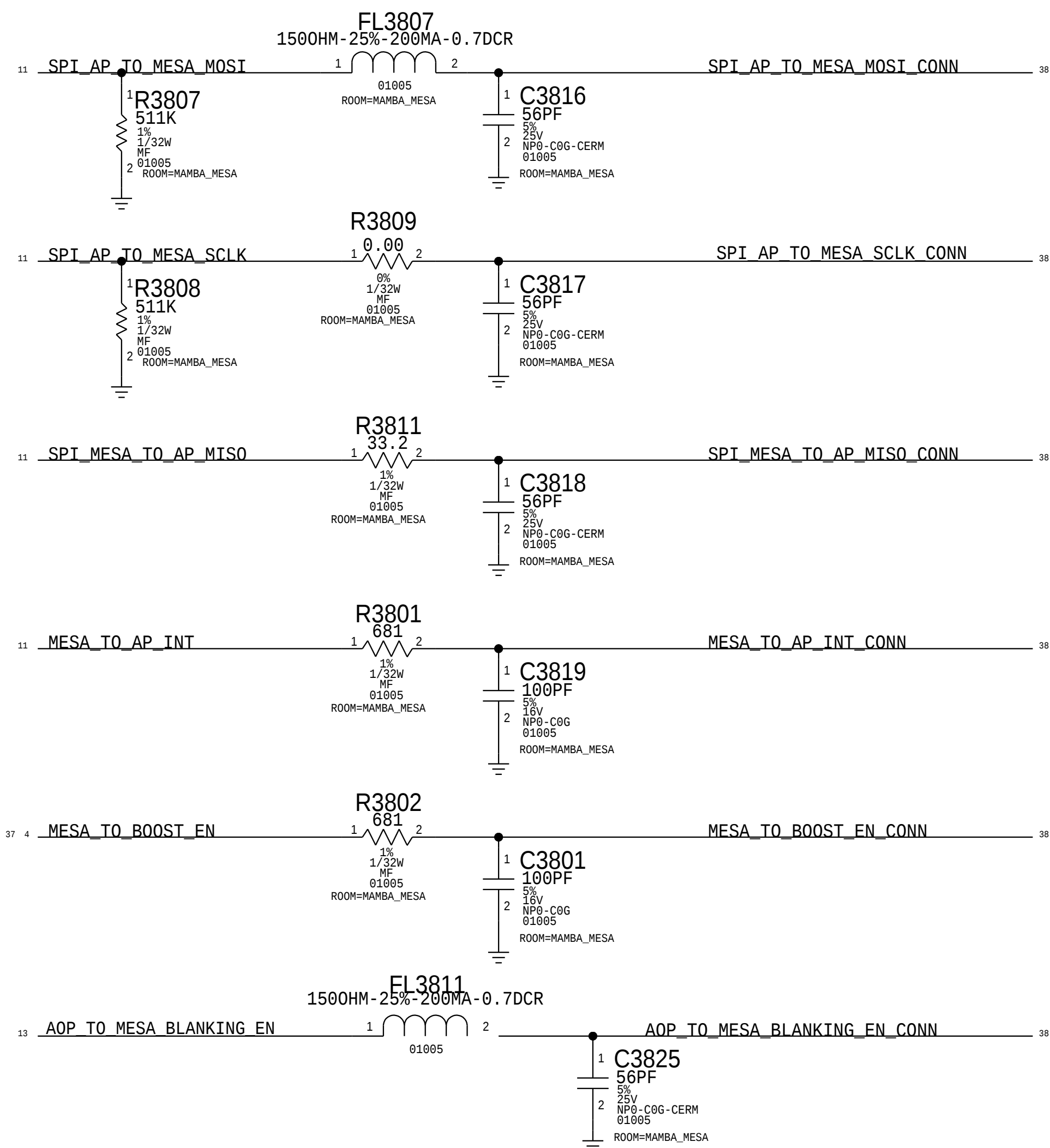


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MESA POWER

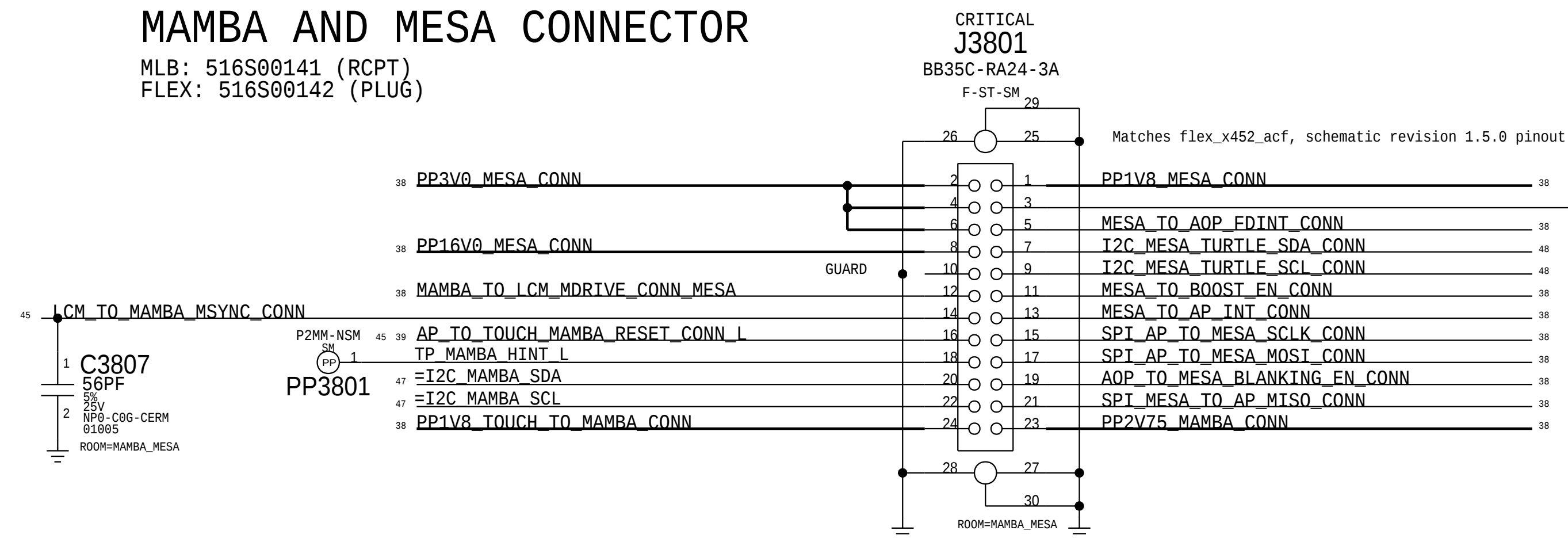


MESA DIGITAL I/O



MAMBA AND MESA CONNECTOR

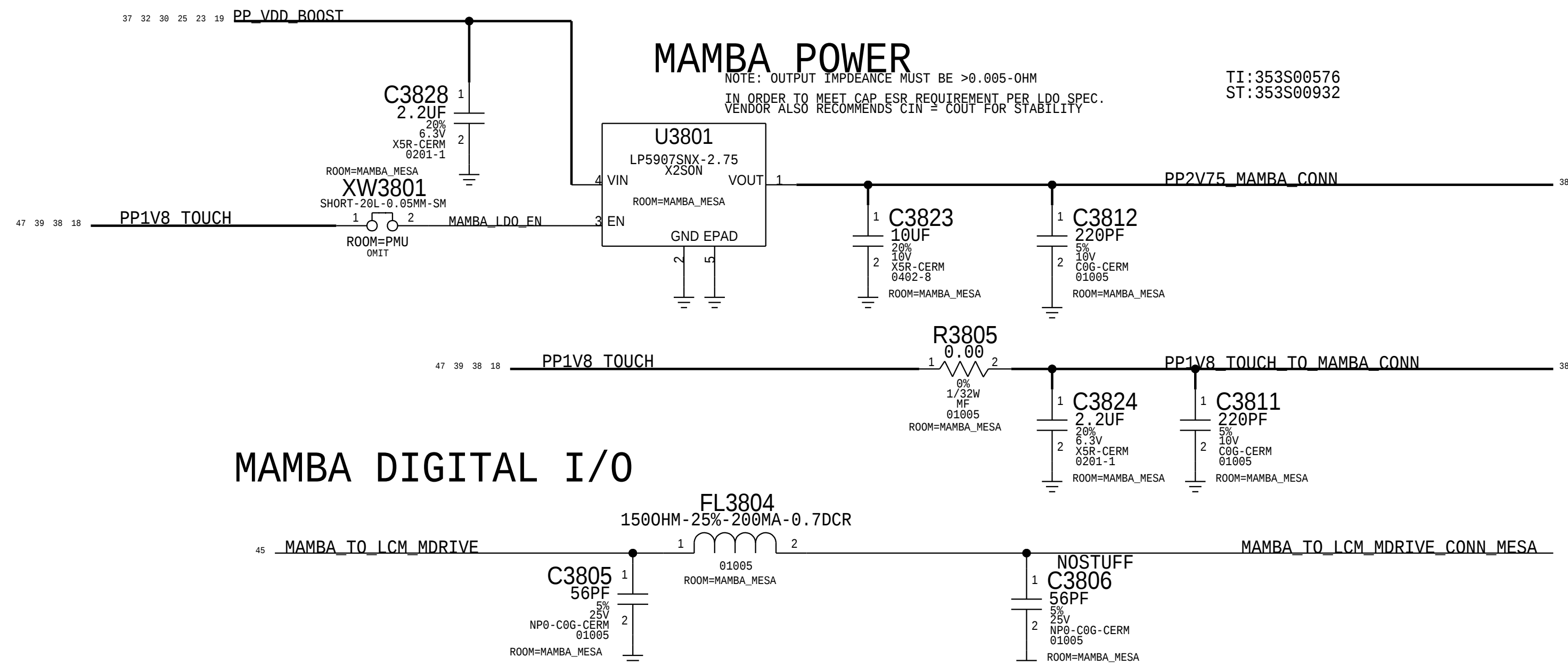
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FLEX: 516S00142 (PLUG)



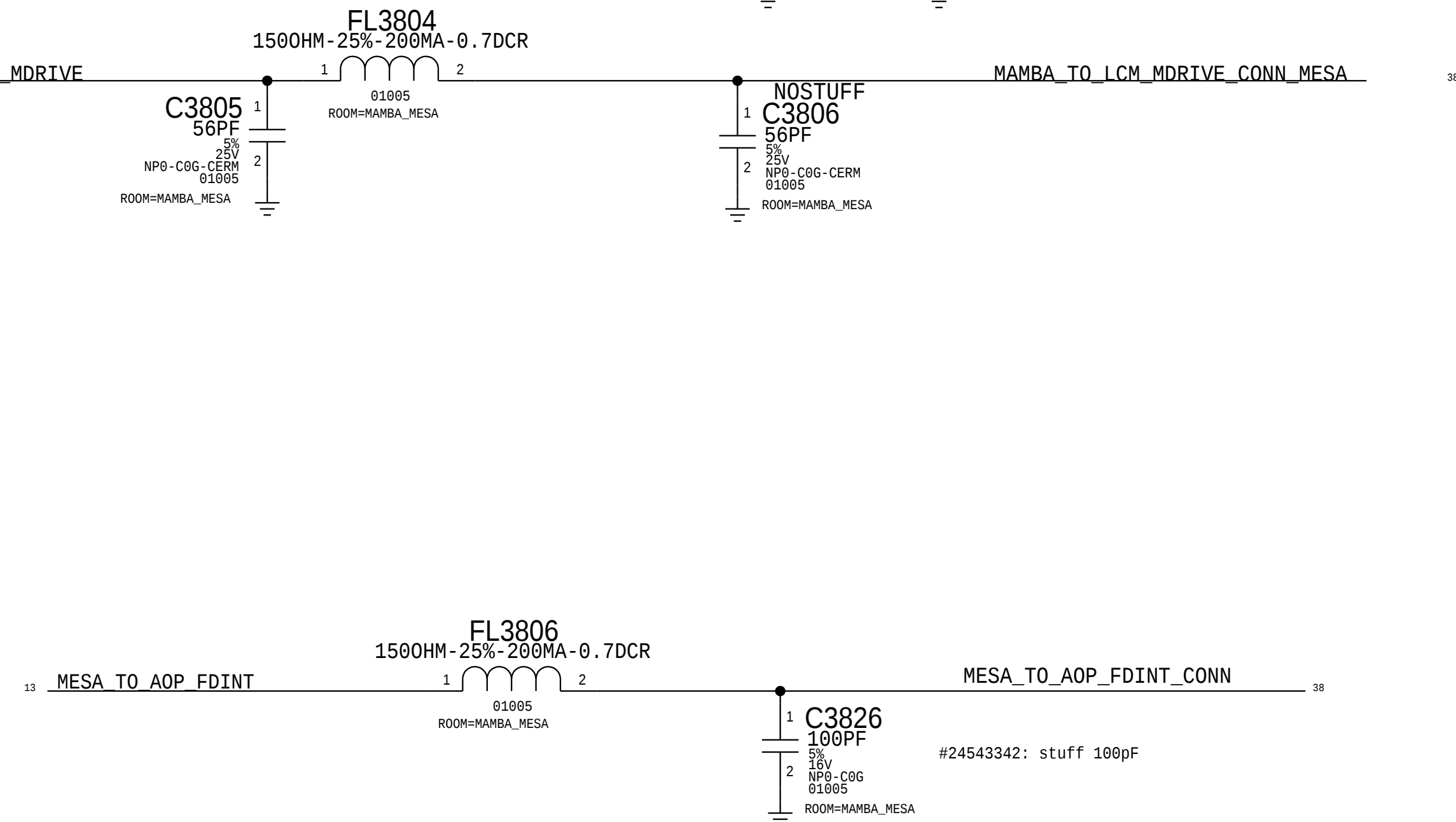
MAMBA POWER
NOTE: OUTPUT IMPEDANCE 1M

NOTE: OUTPUT IMPEDANCE MUST BE $>0.005\text{-}\Omega$
IN ORDER TO MEET CAP ESR REQUIREMENT PER LDO SPEC.
VENDOR ALSO RECOMMENDS $C_{IN} = C_{OUT}$ FOR STABILITY

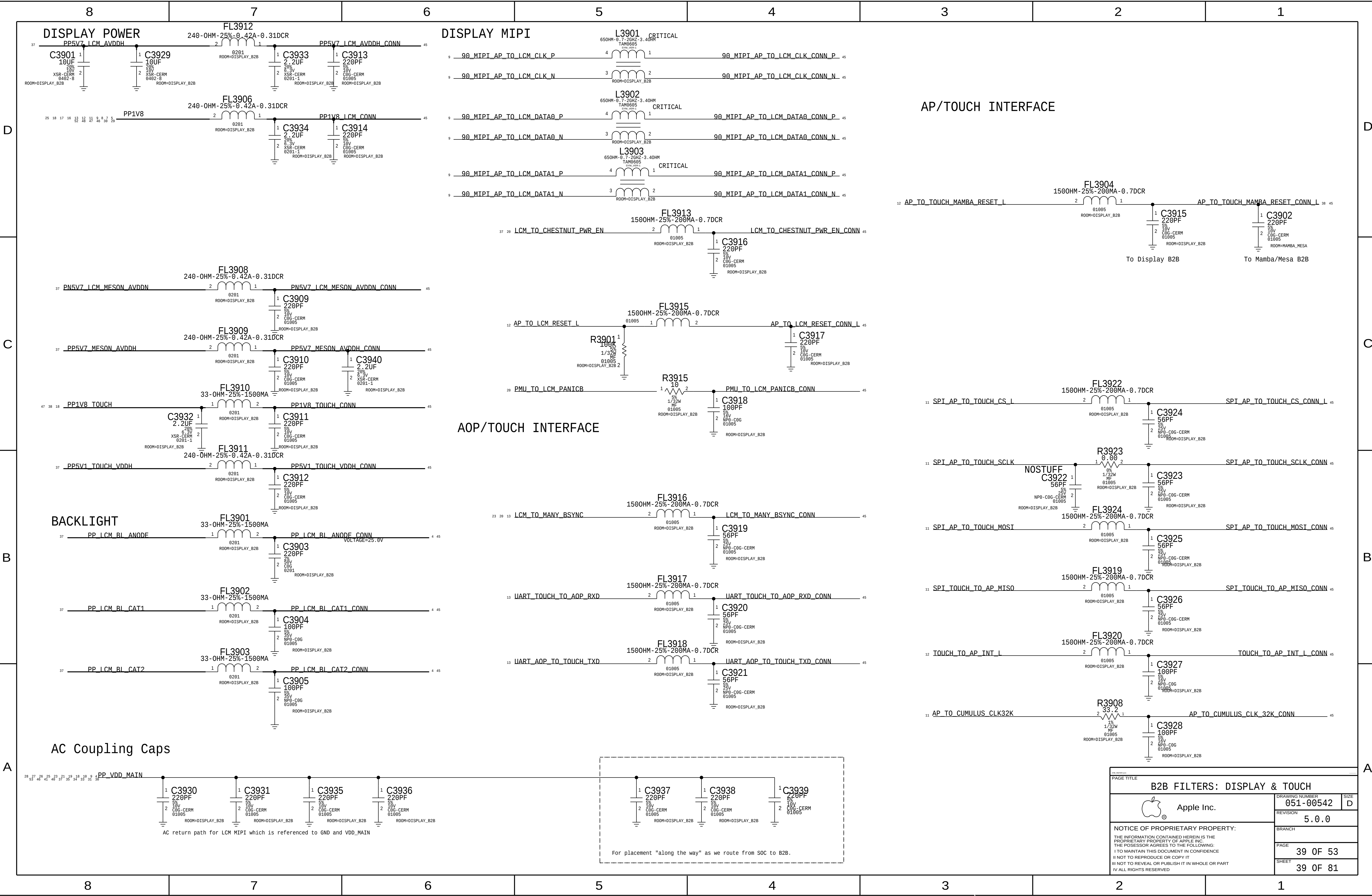
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MAMBA DIGITAL I/O



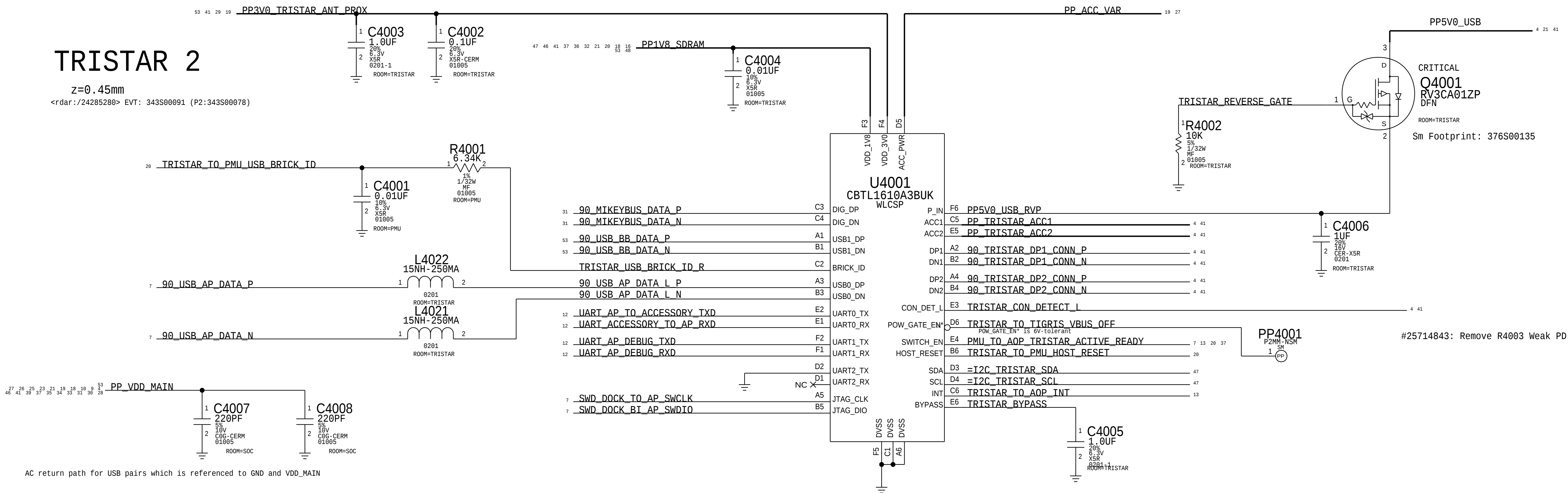
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B2B FILTERS: DISPLAY & TOUCH		
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TRISTAR 2

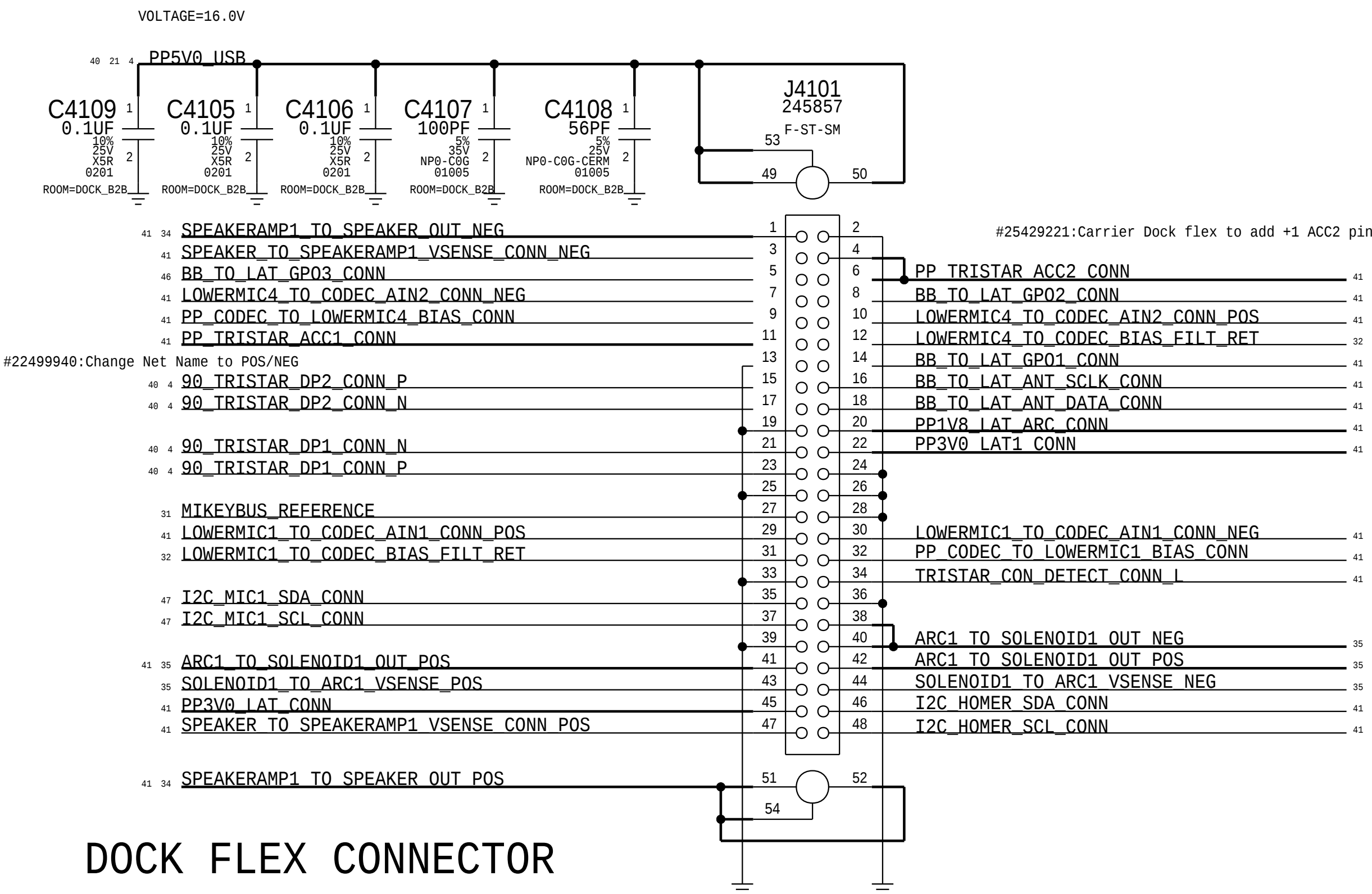
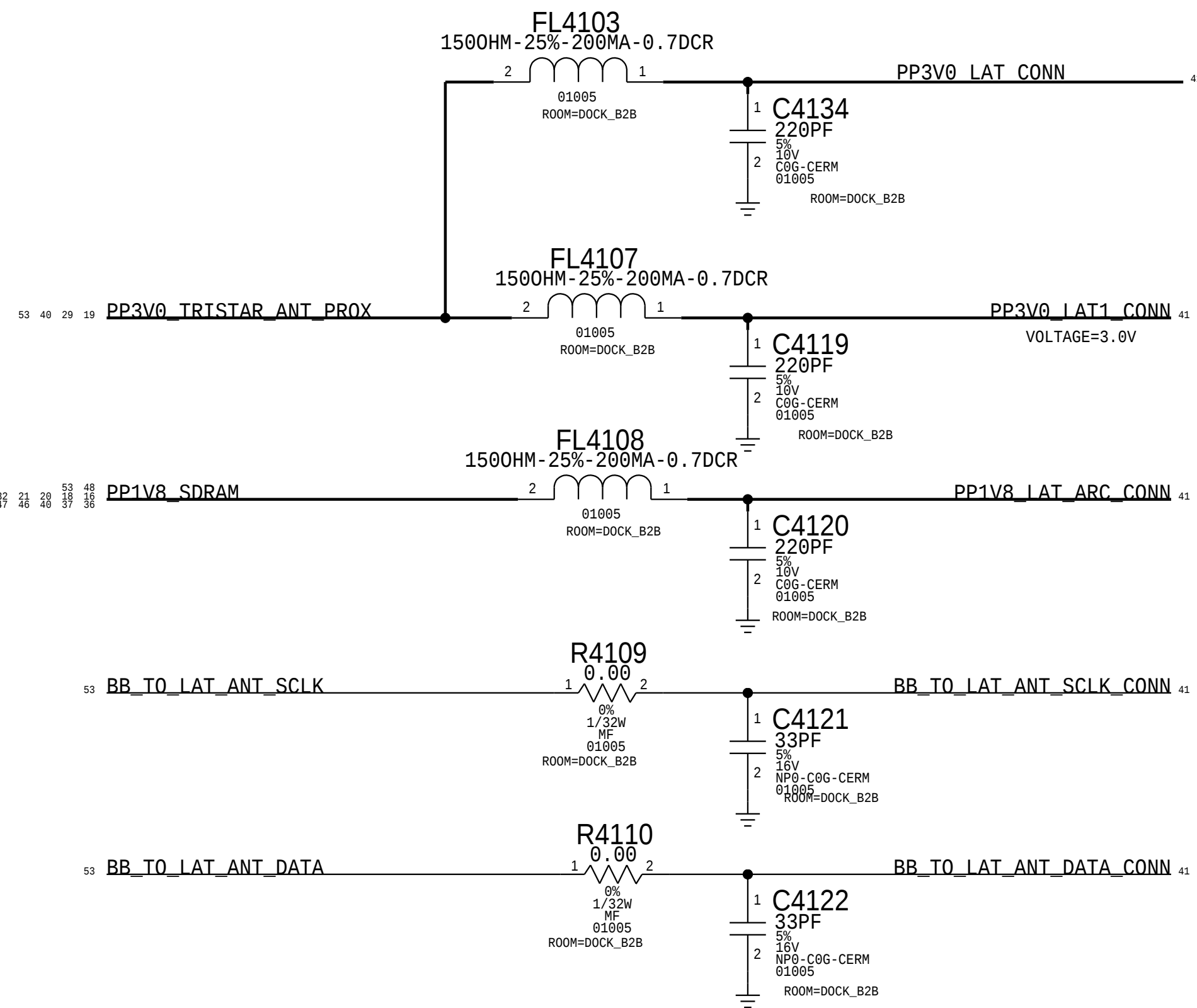
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BRANCH		PAGE	
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SHEET		40 OF 81	

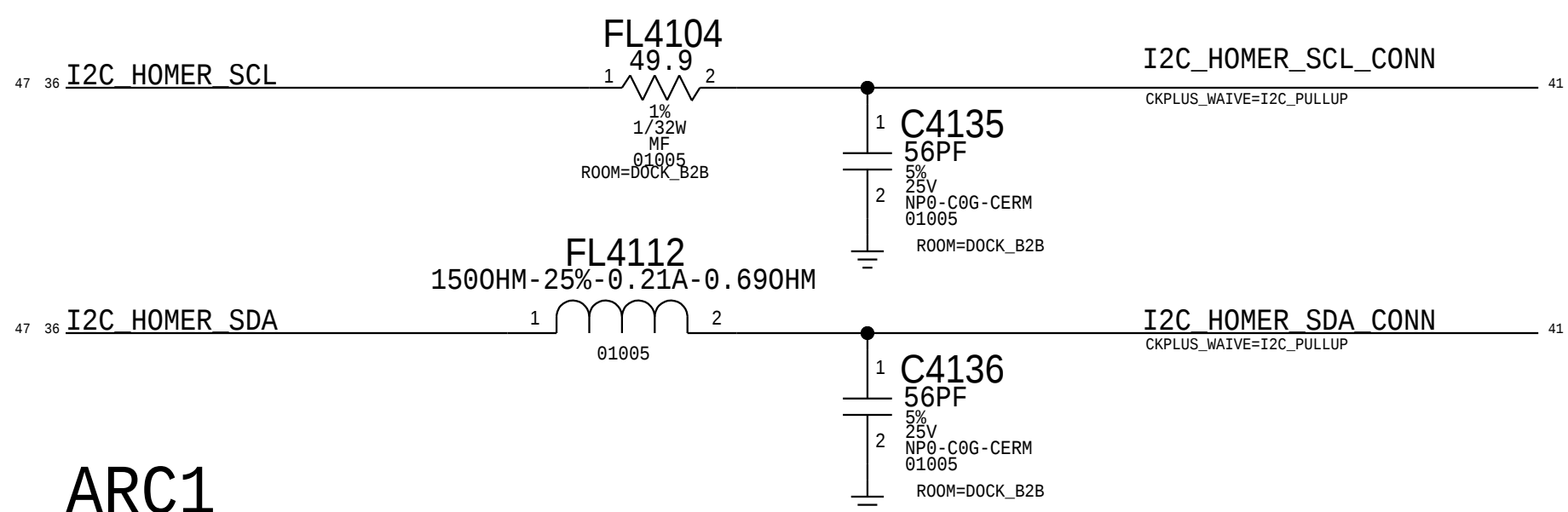
ANTENNA

Please loop in Matt Mow (Antenna Team)
when changing these components!

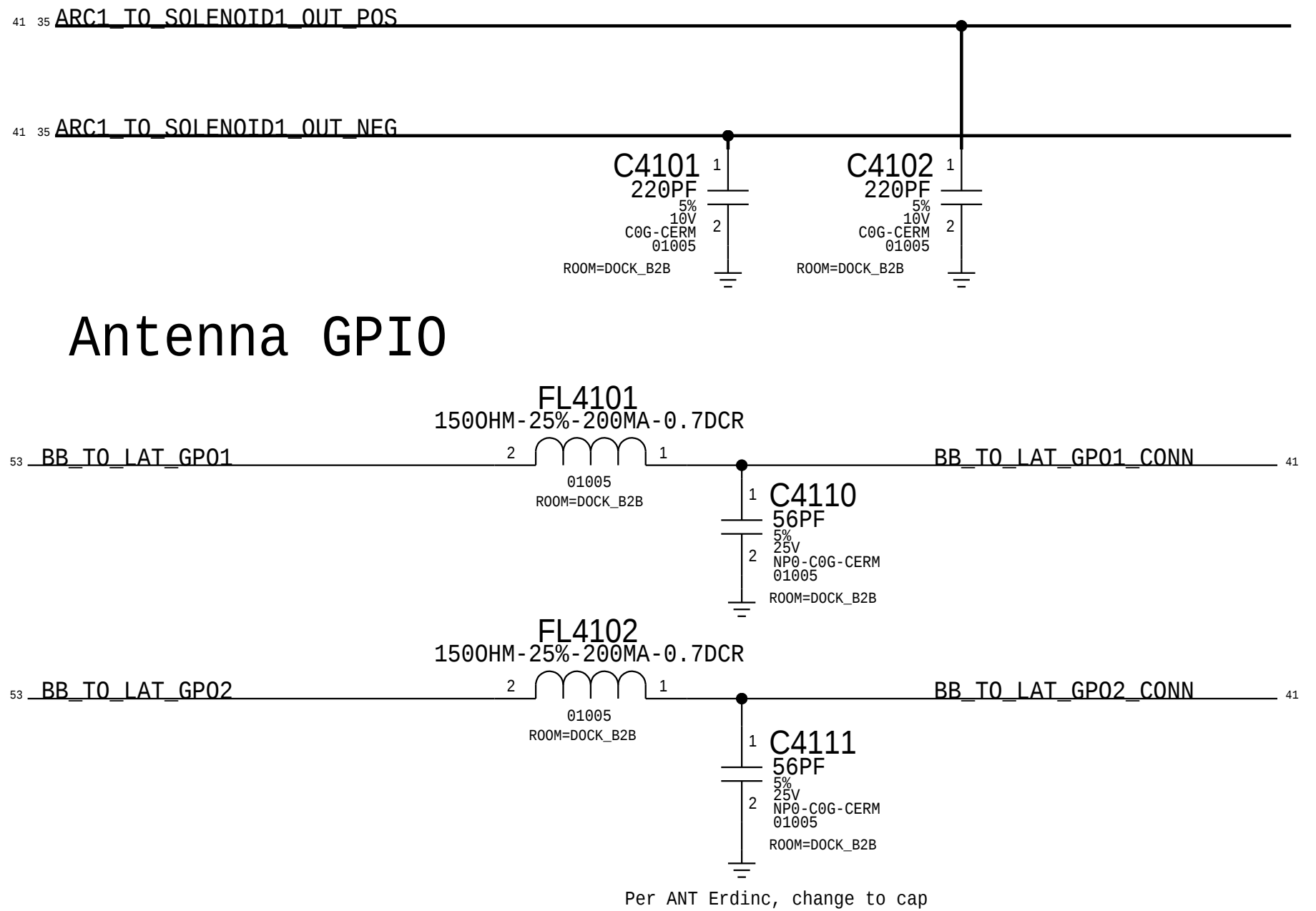


DOCK FLEX CONNECTOR

ARC CONTROL

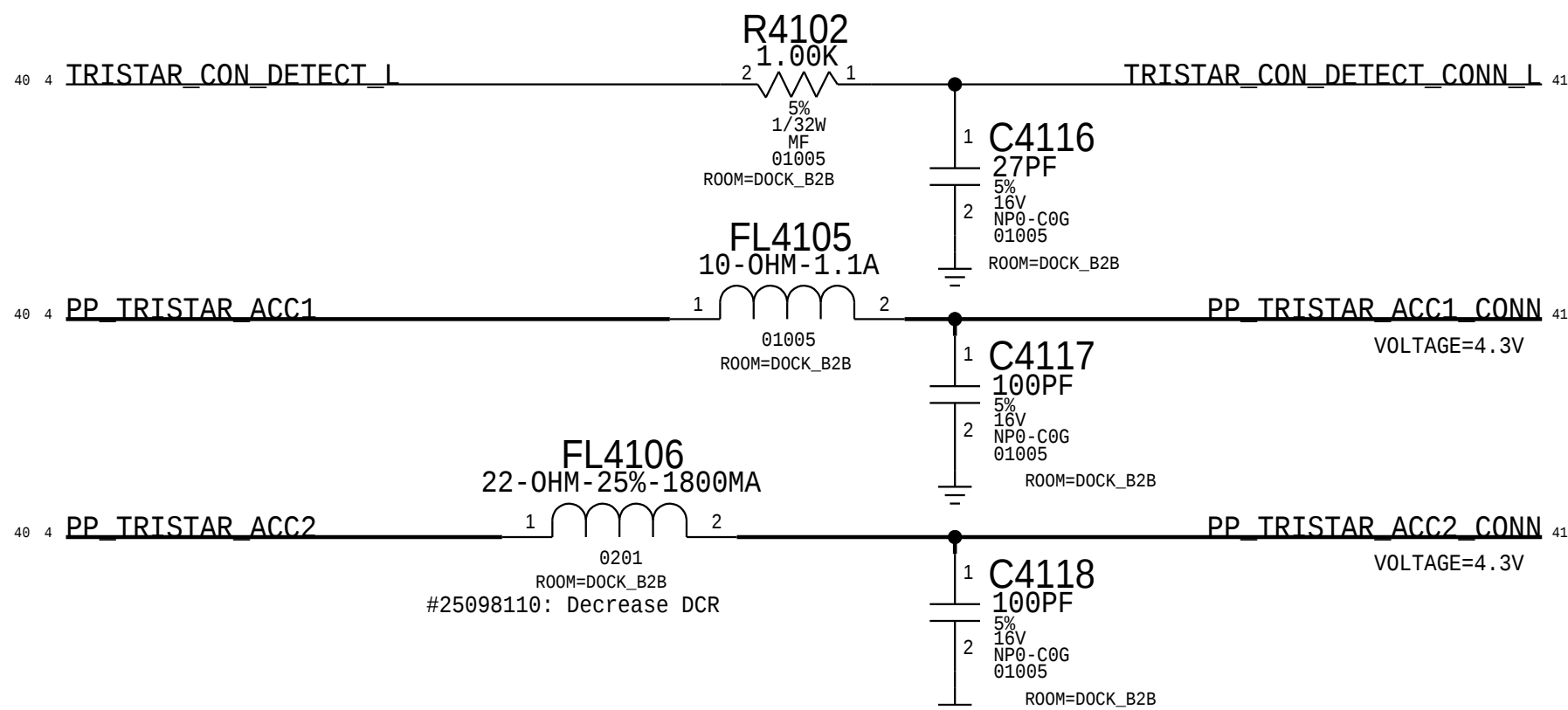


ARC1

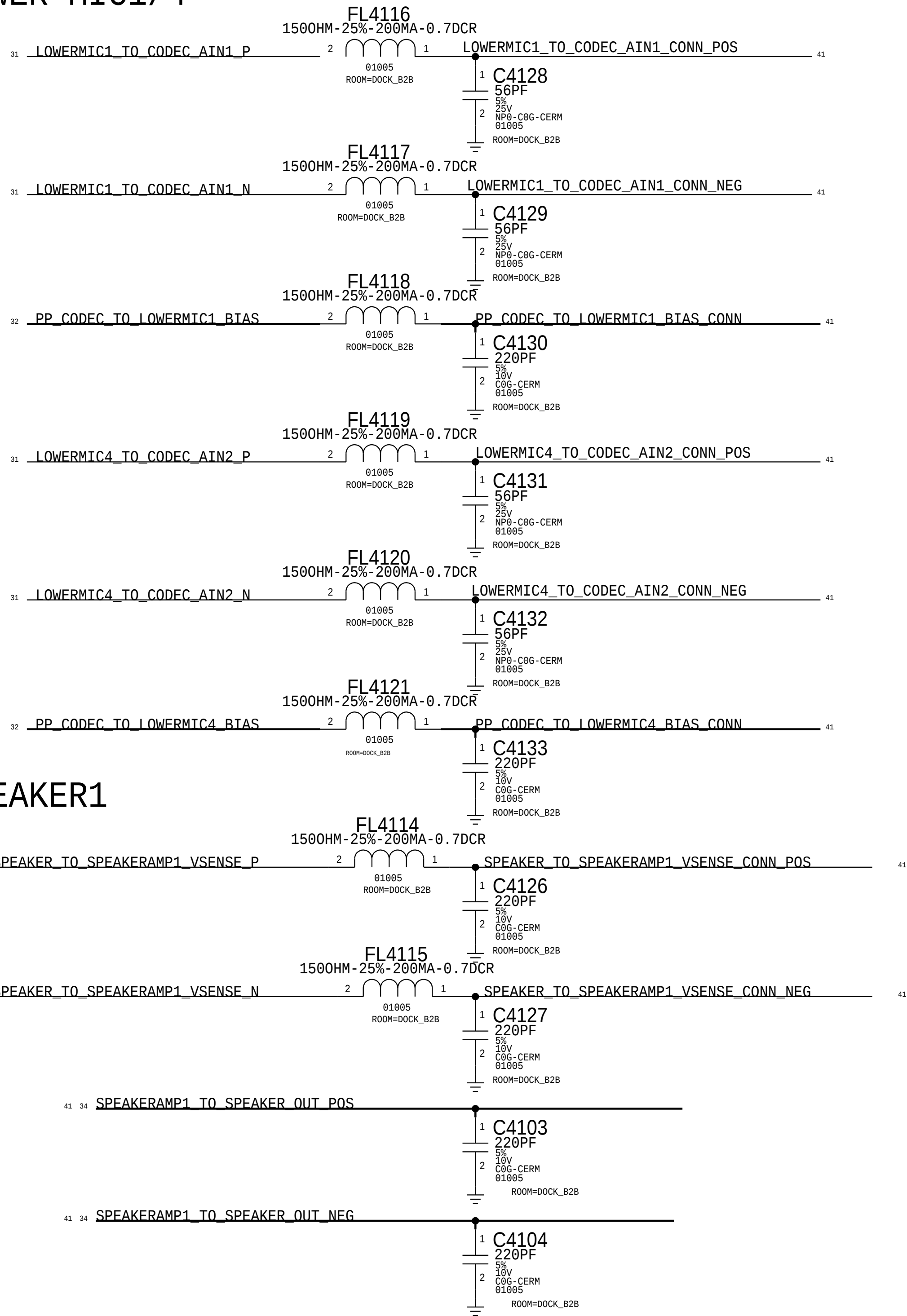


Antenna GPIO

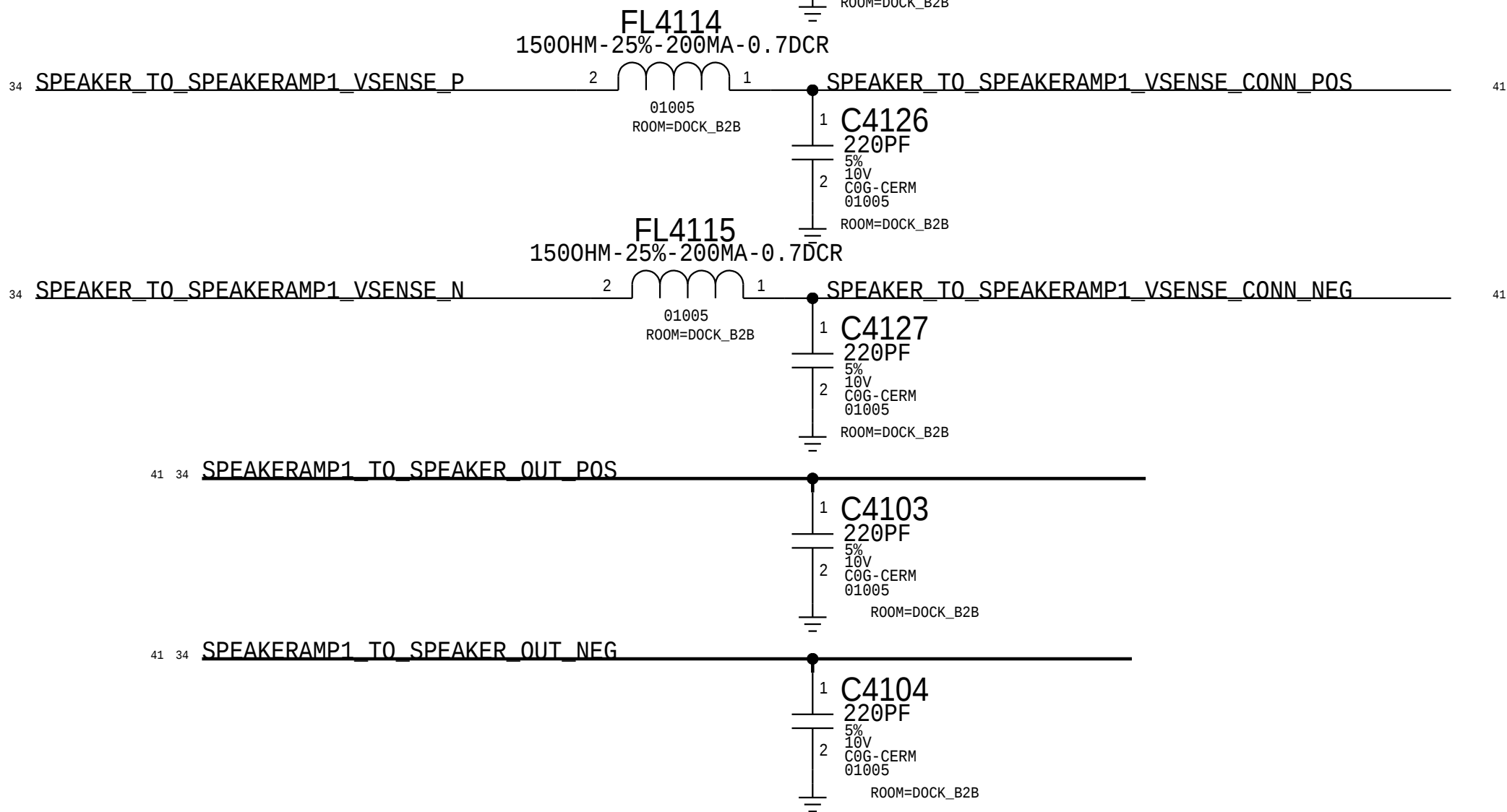
TRISTAR



LOWER MIC1/4

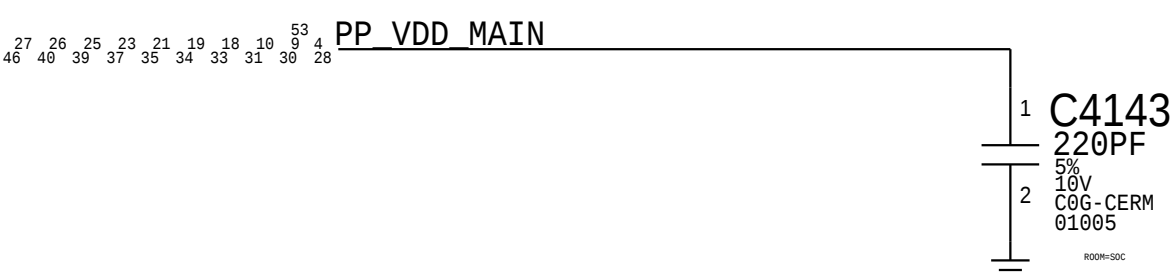


SPEAKER1



USB AC Coupling

AC return path for USB pairs which is referenced to GND and VDD_MAIN



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B2B:DOCK FLEX		
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8		7		6		5		4		3		2		1		
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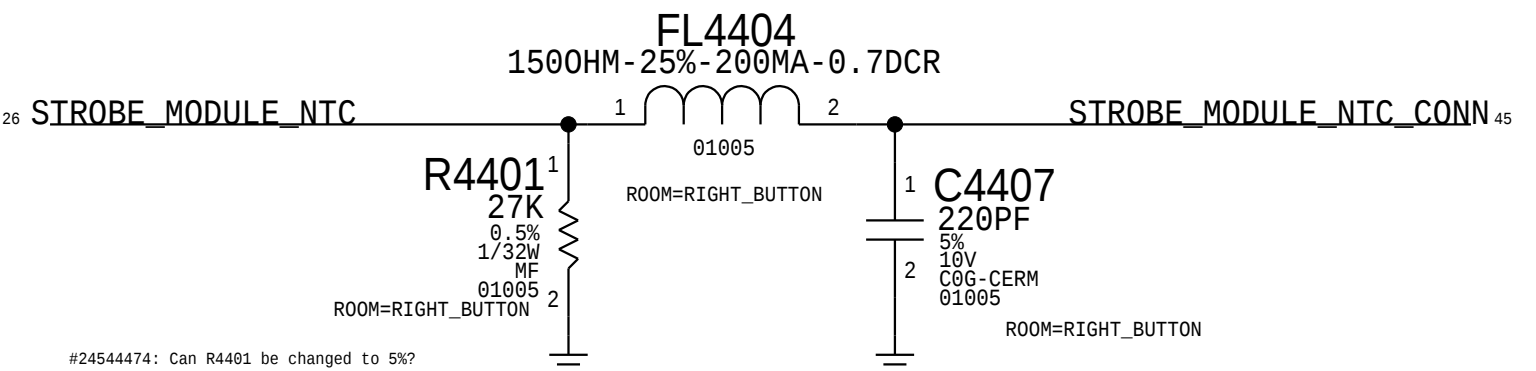
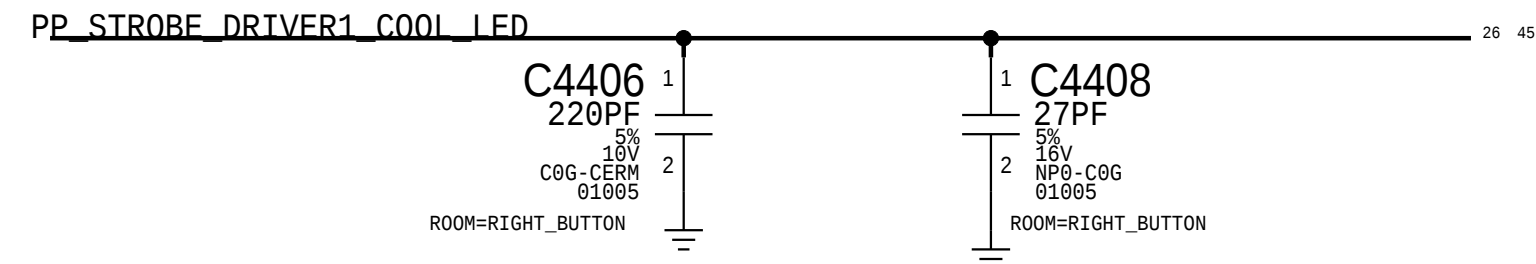
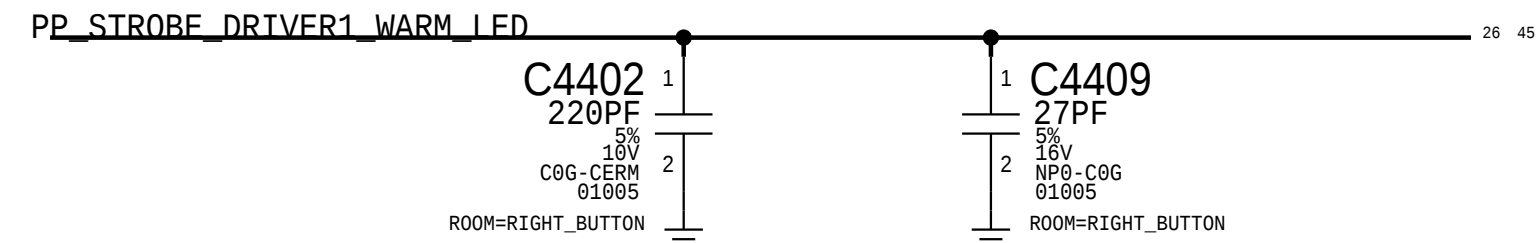
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8		7		6		5		4		3		2		1		
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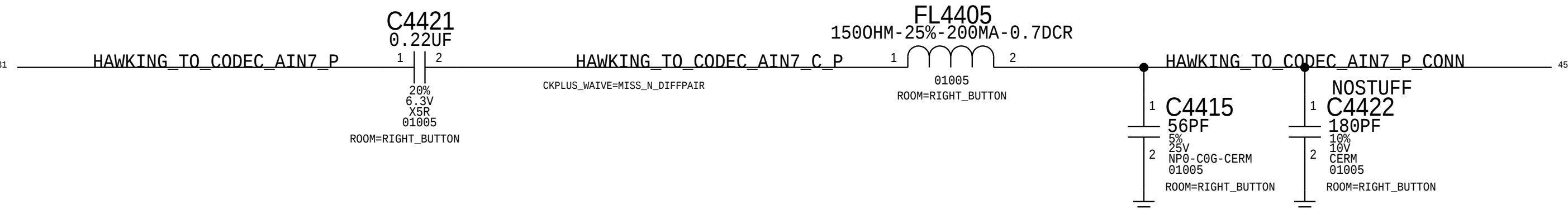
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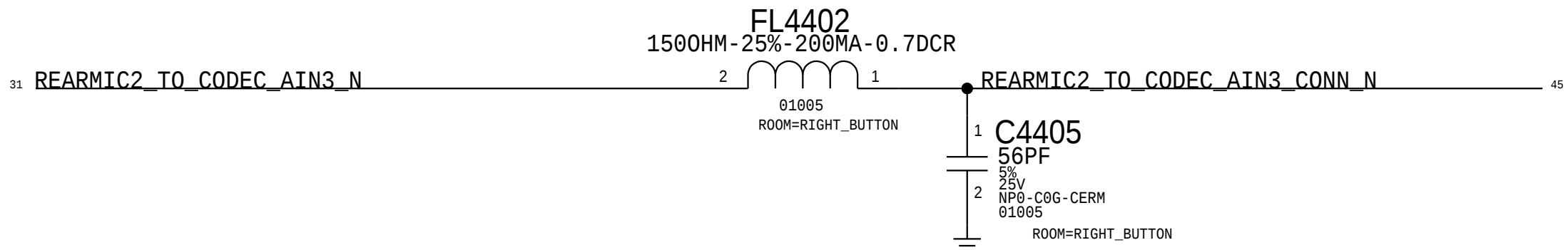
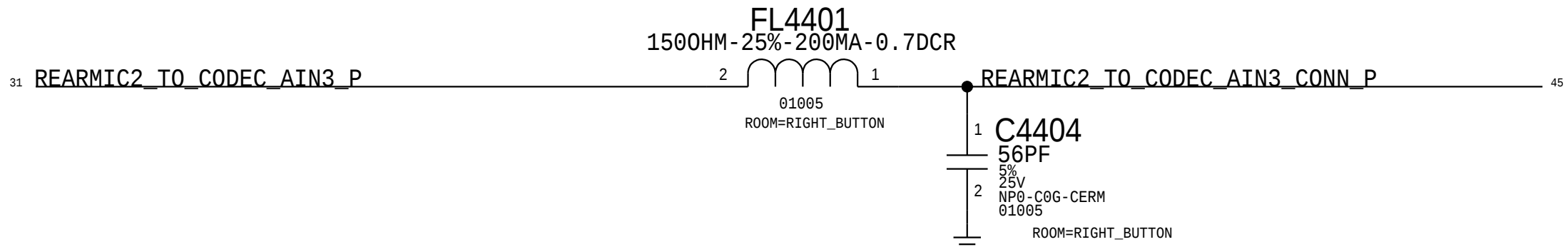
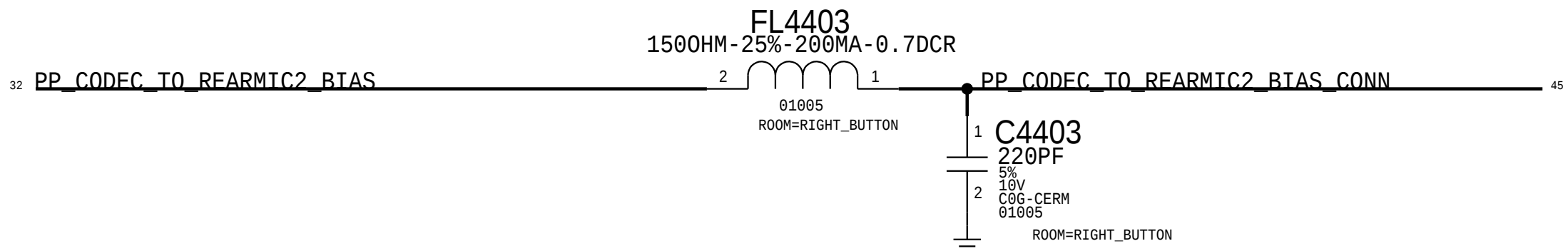
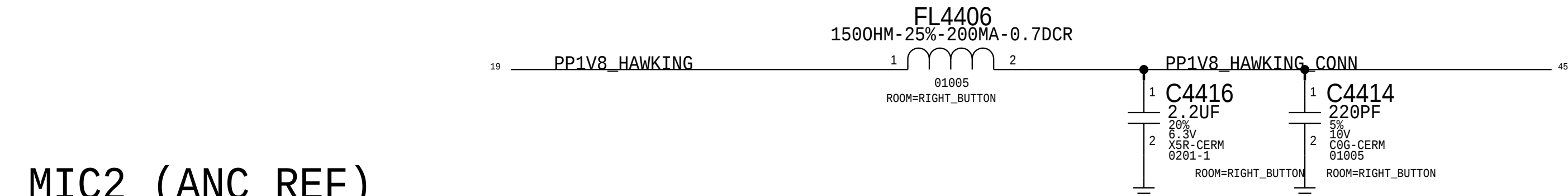
STROBE1



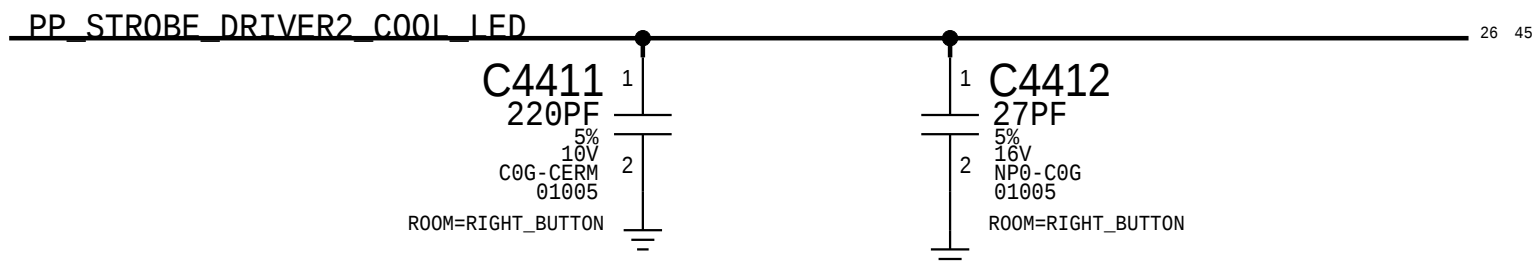
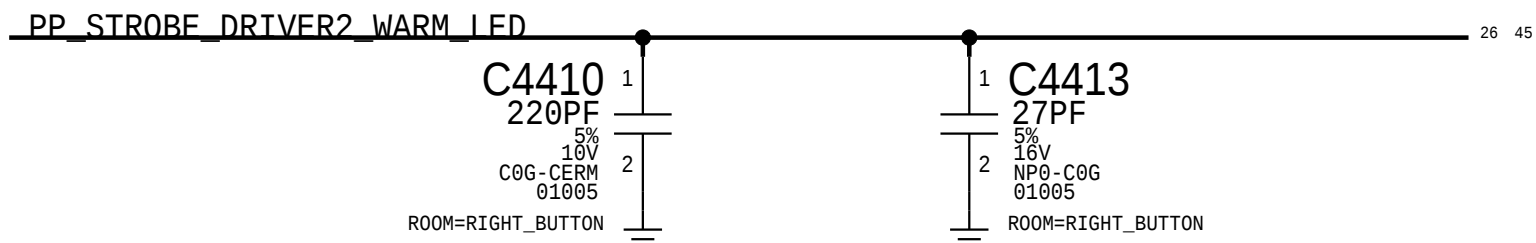
HAWKING



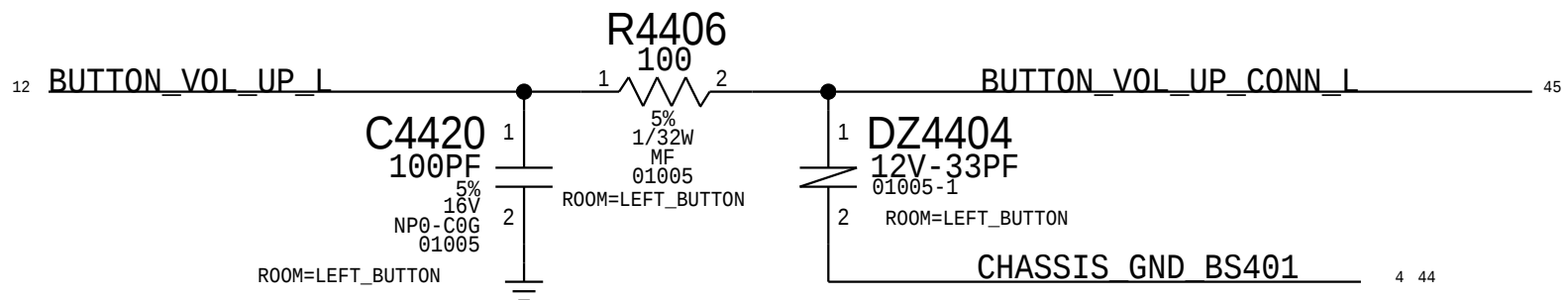
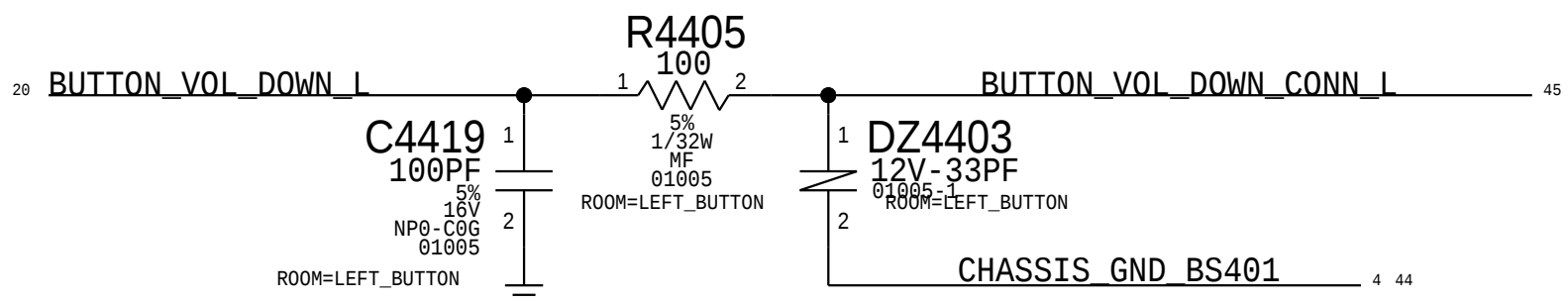
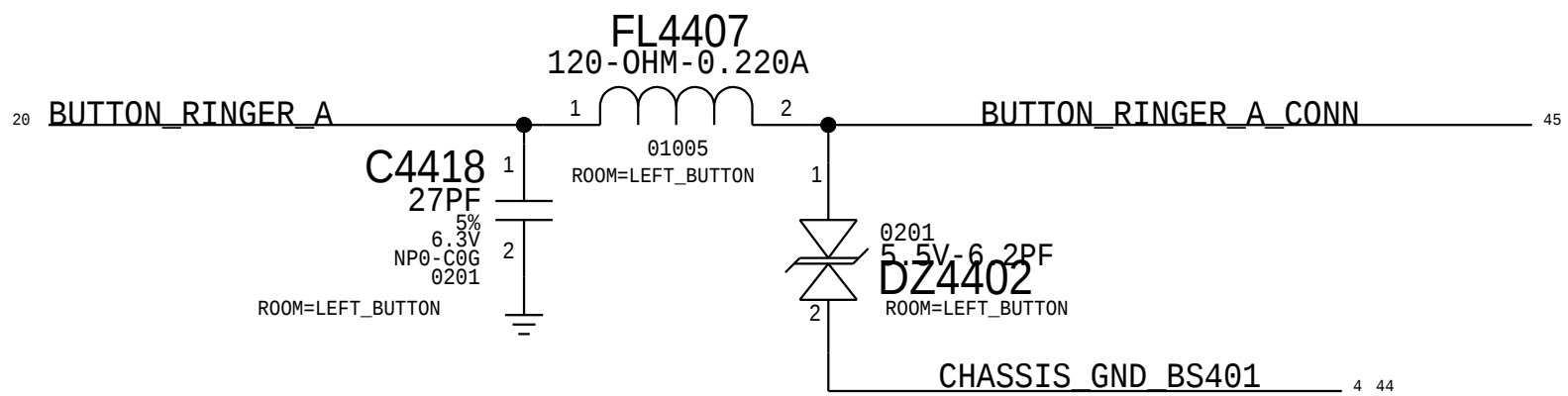
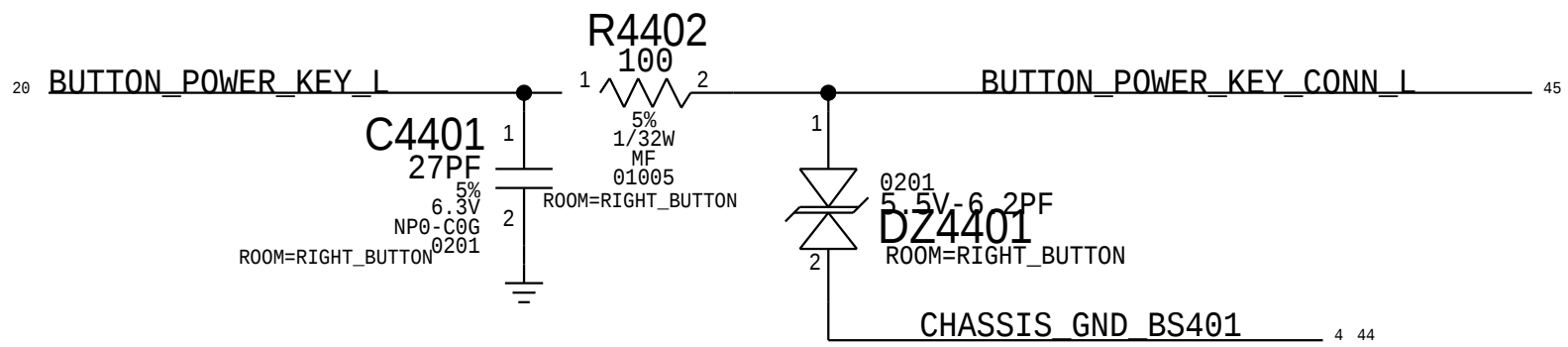
MIC2 (ANC REF)

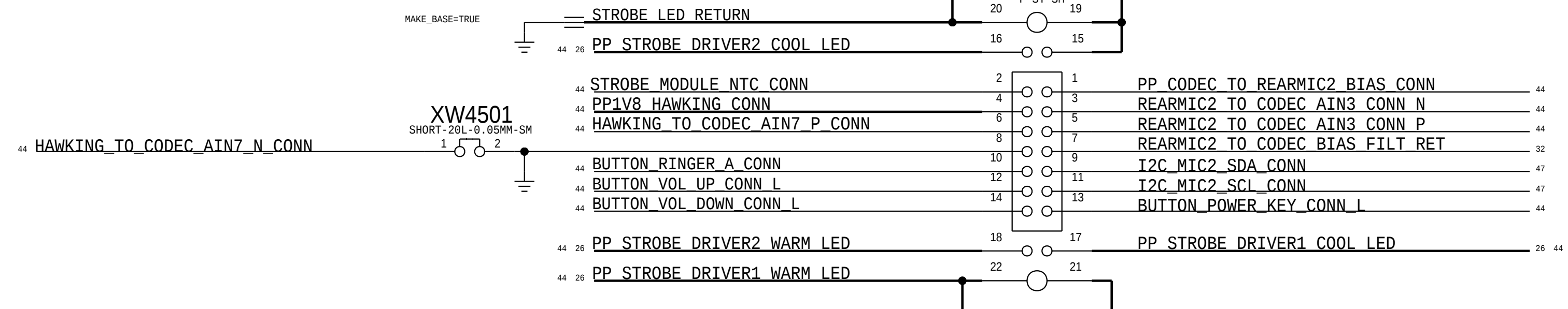
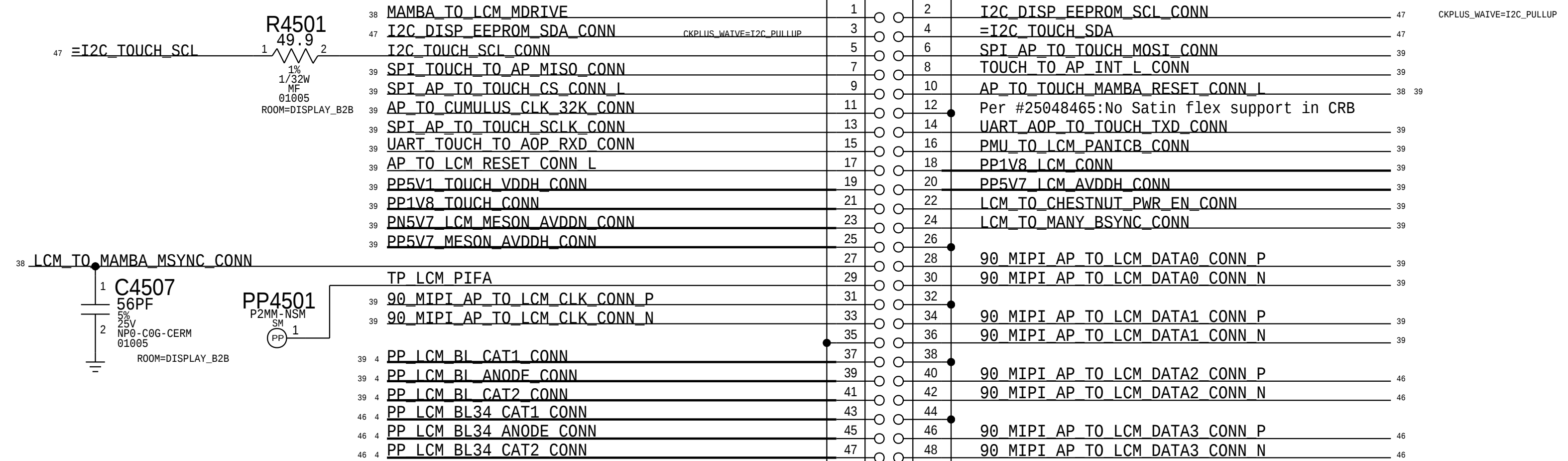
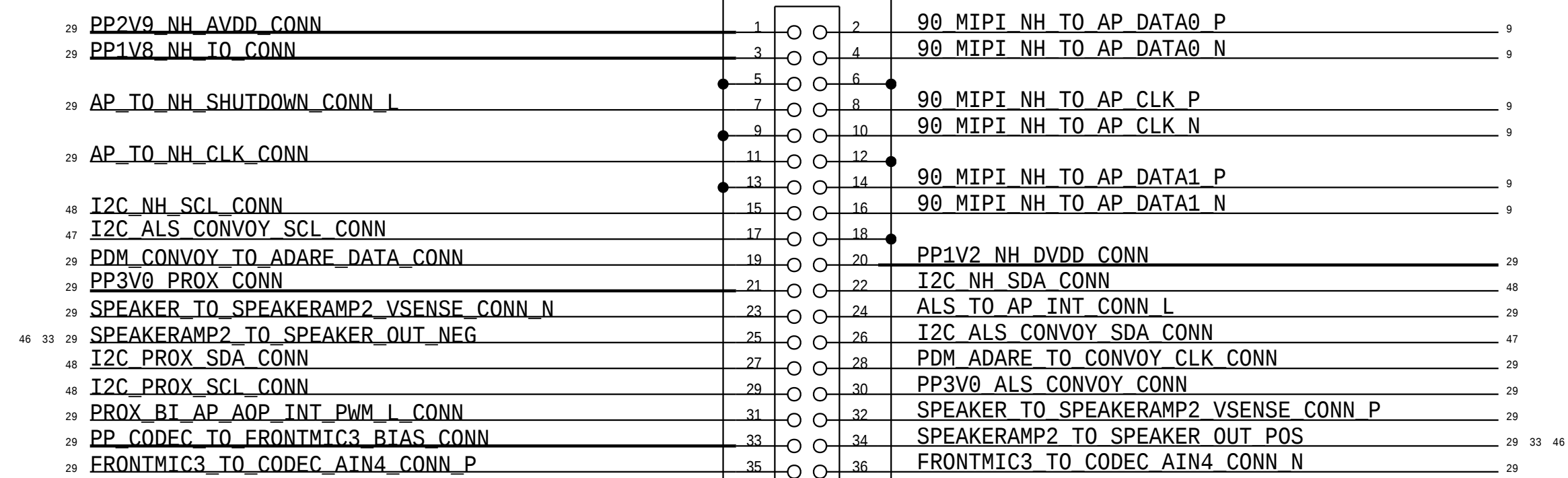
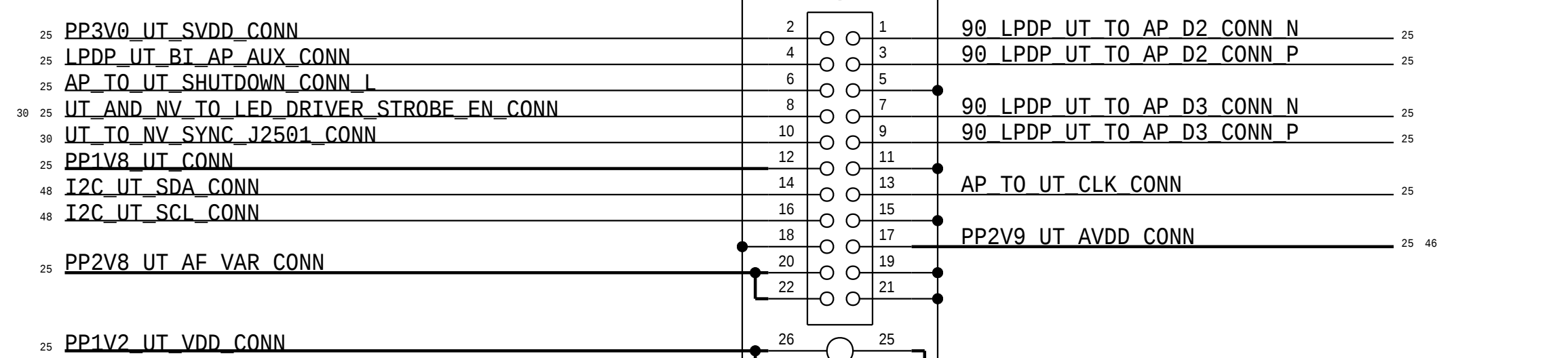


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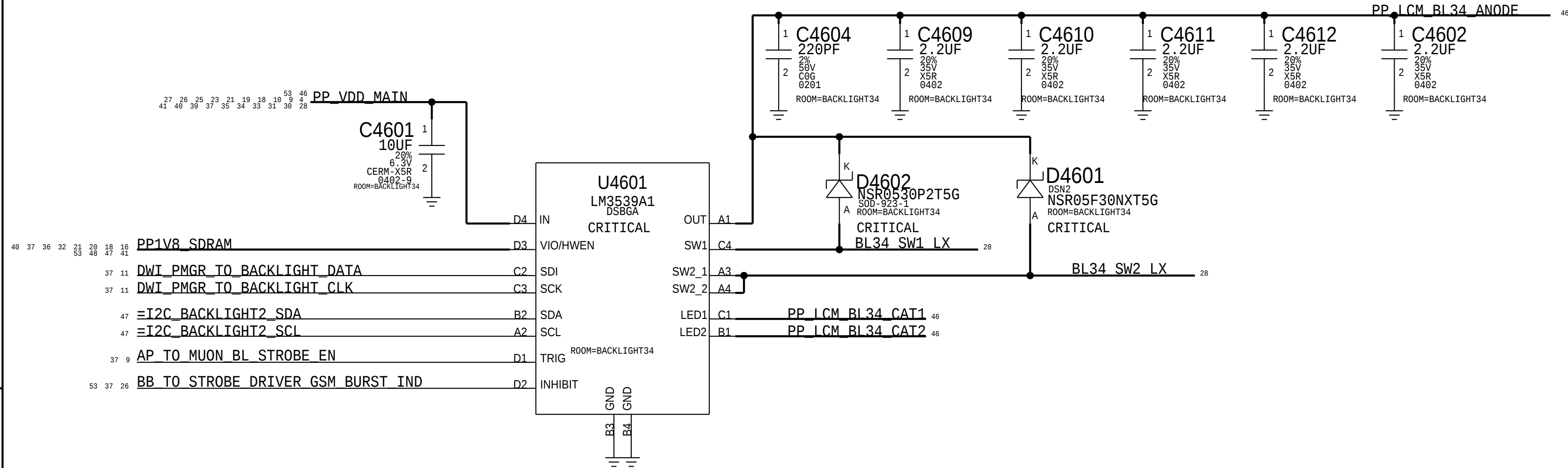


BUTTONS

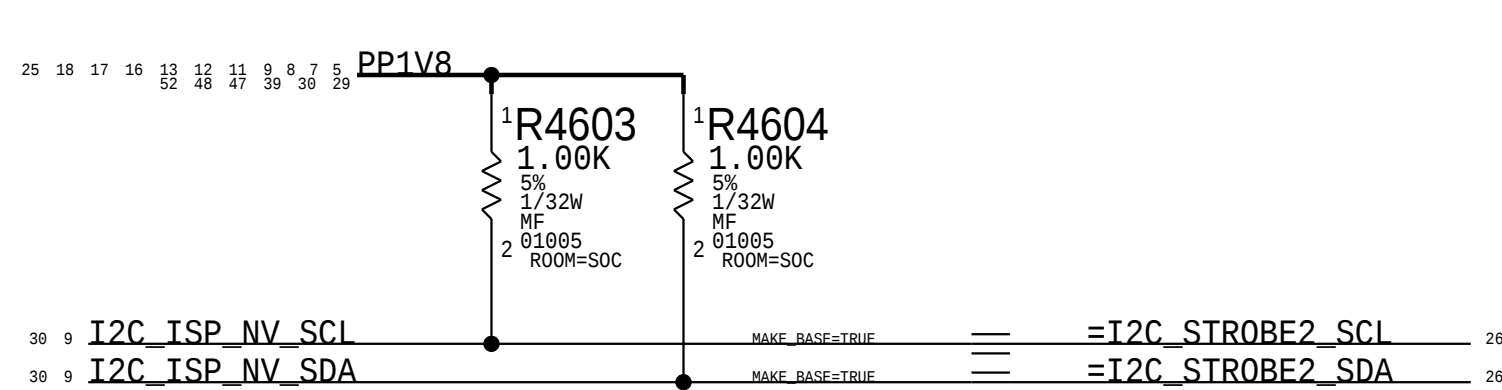




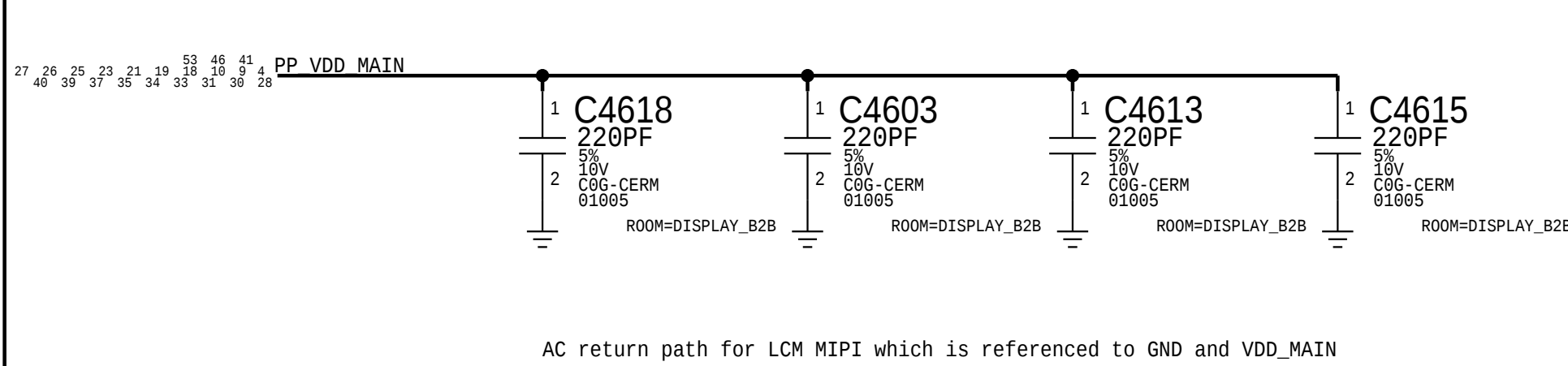
2ND BACKLIGHT DRIVER - 4LED



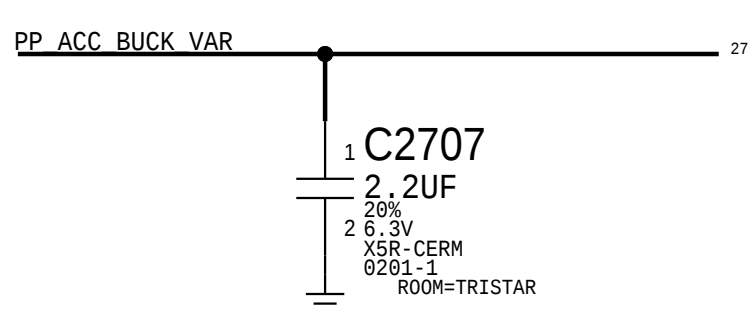
ISP I2C1



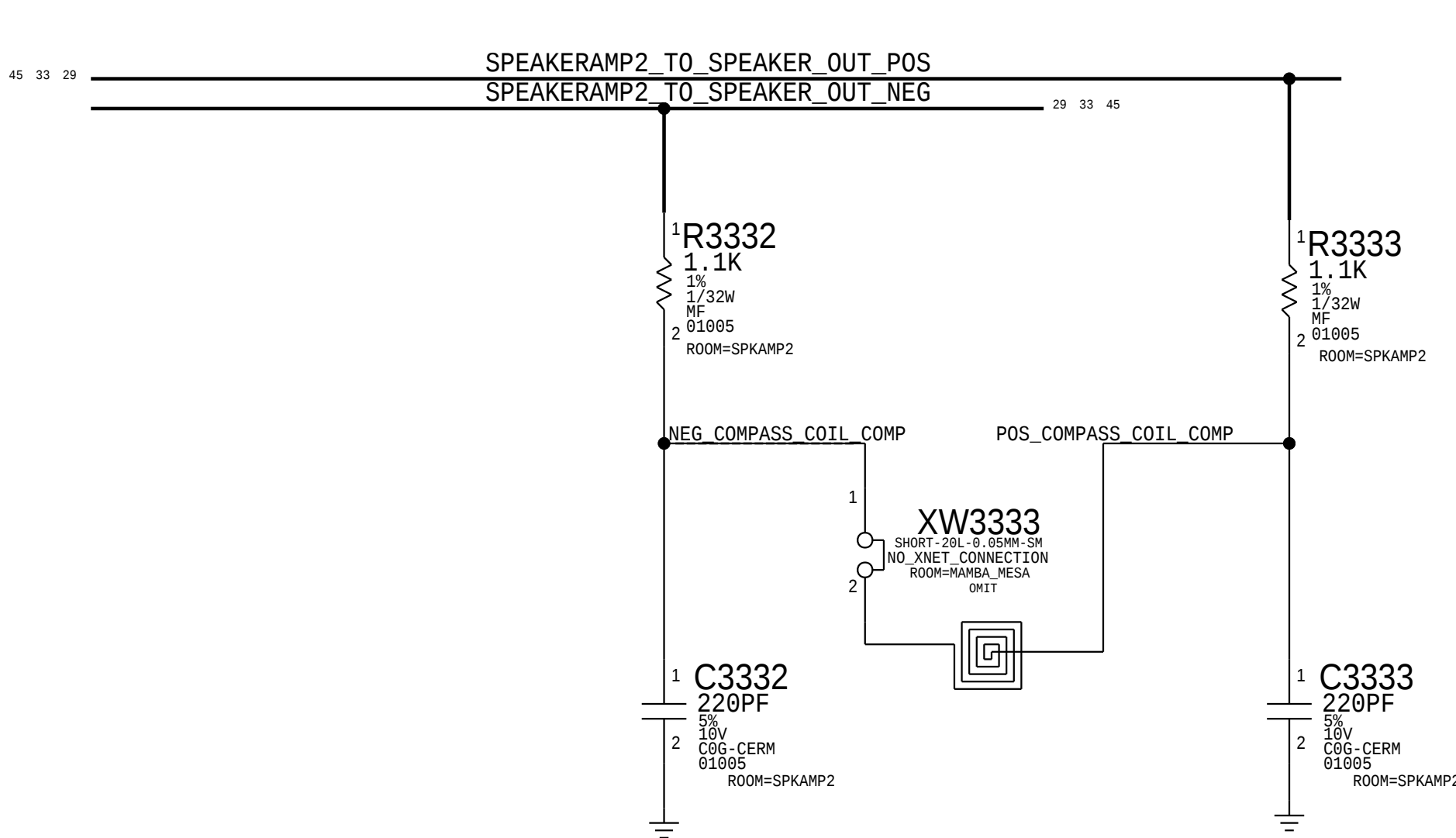
AC Coupling Caps



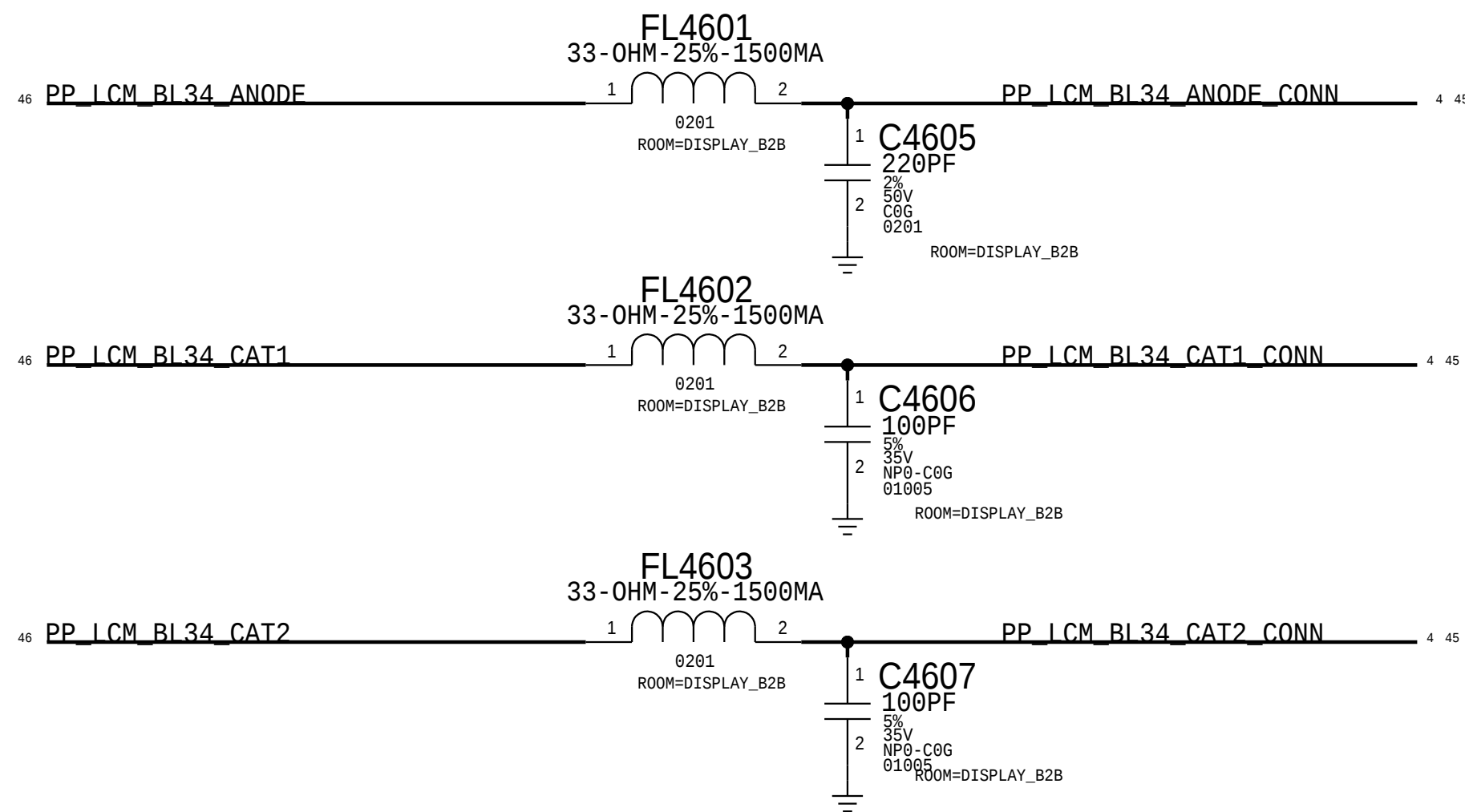
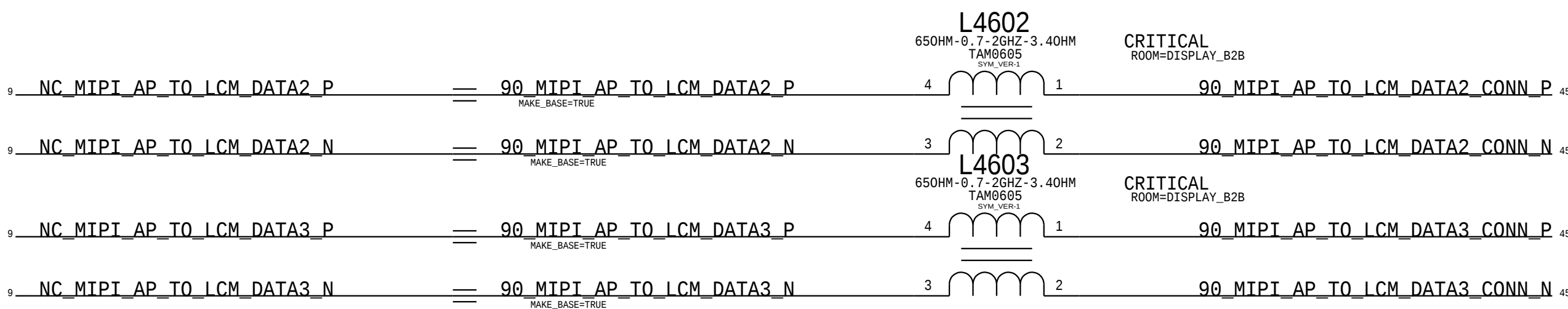
ACC Buck Caps



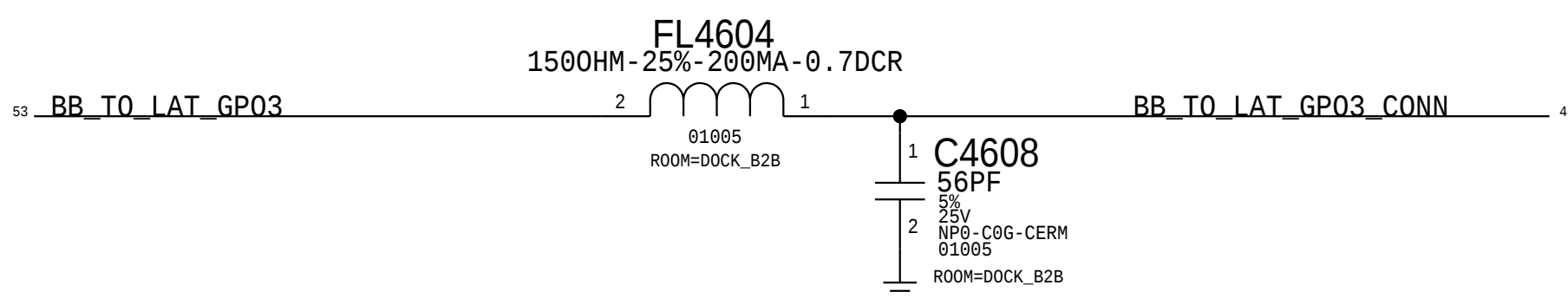
Top Speaker Compass Coil



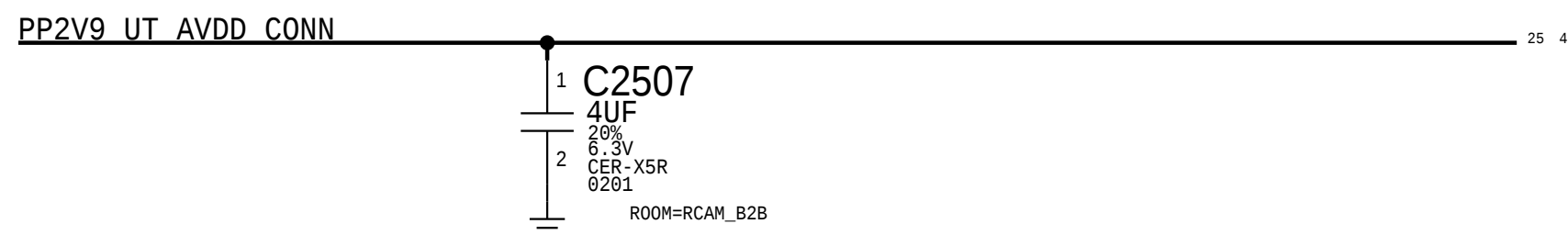
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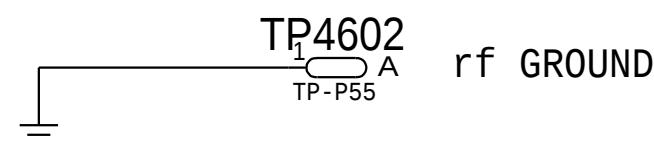
Dock B2B (Pg 41)



UT B2B



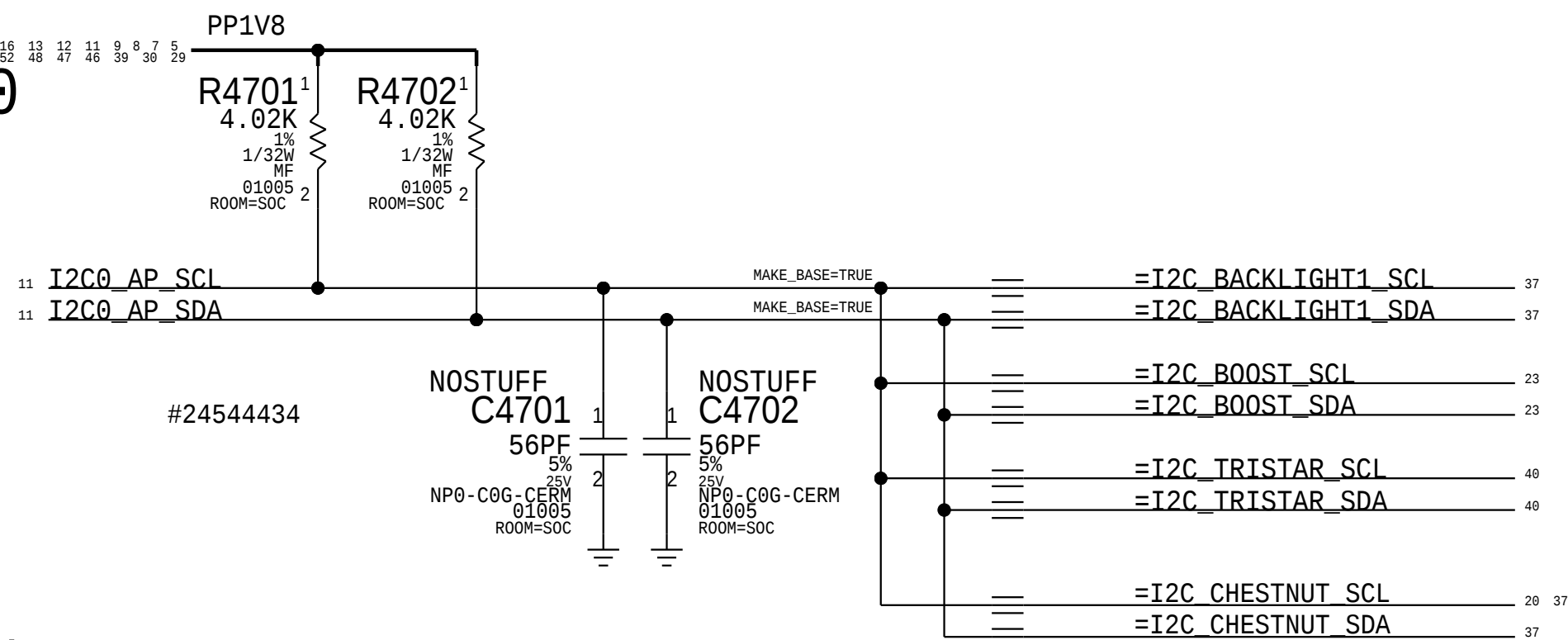
Extra RF GND



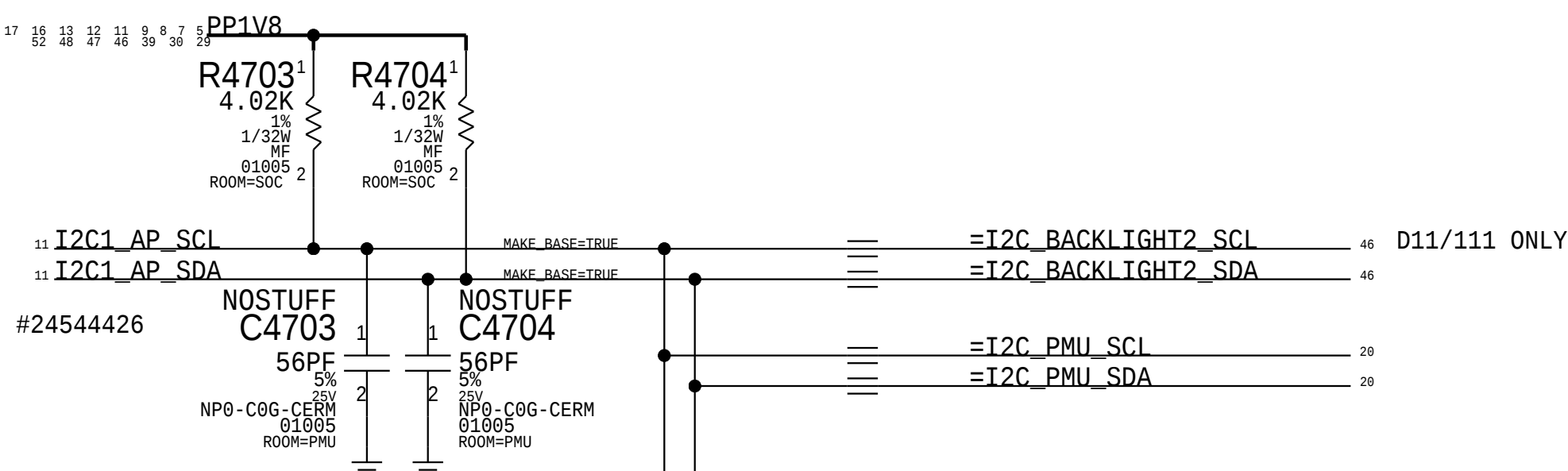
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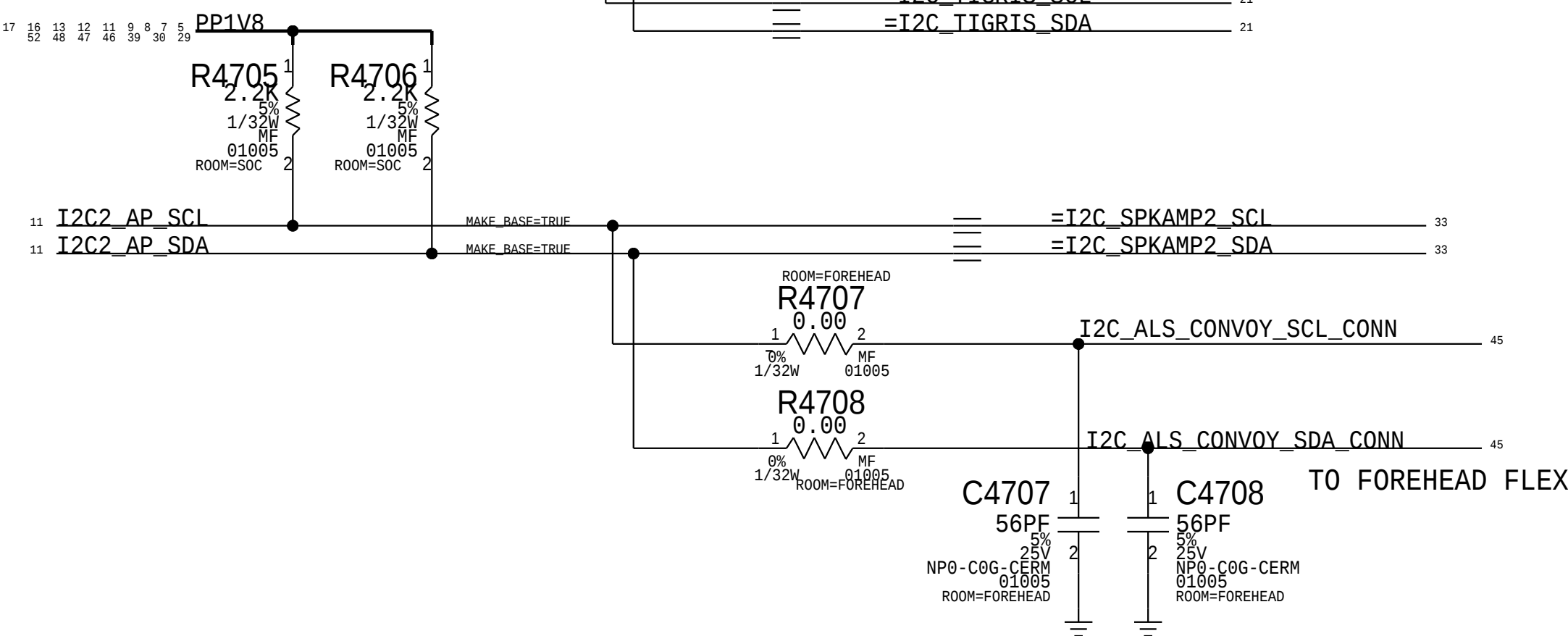
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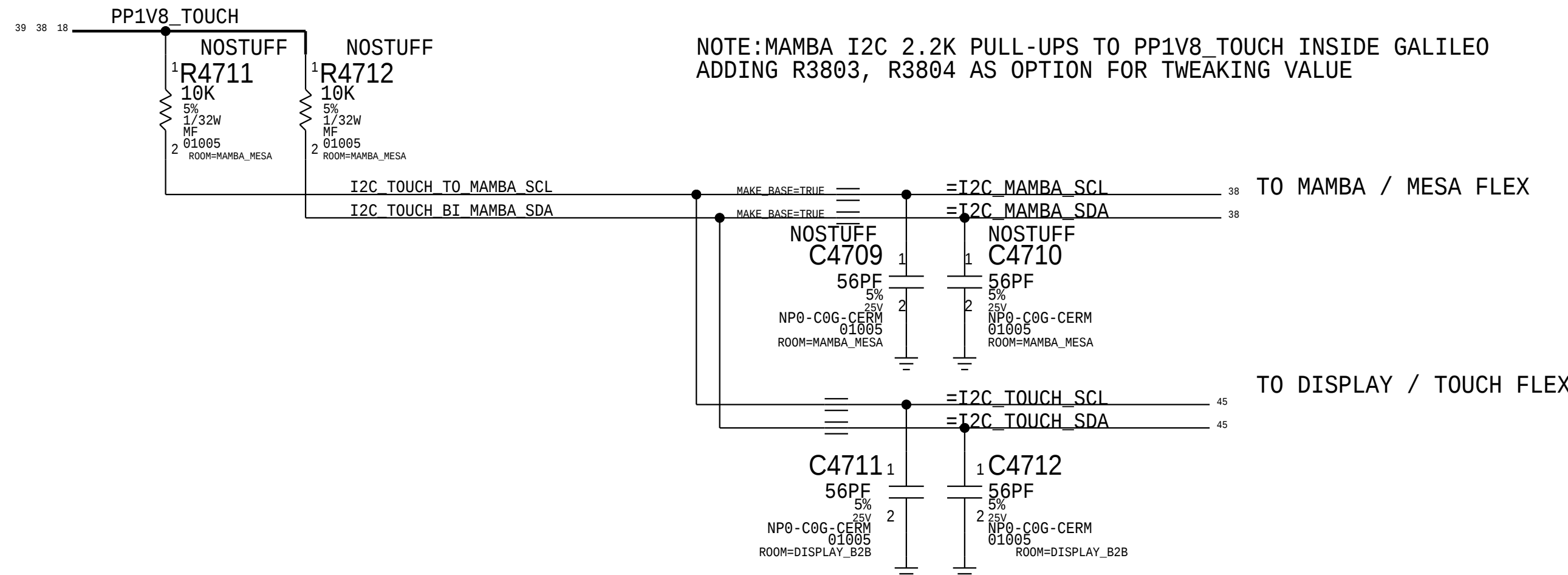
I2C1



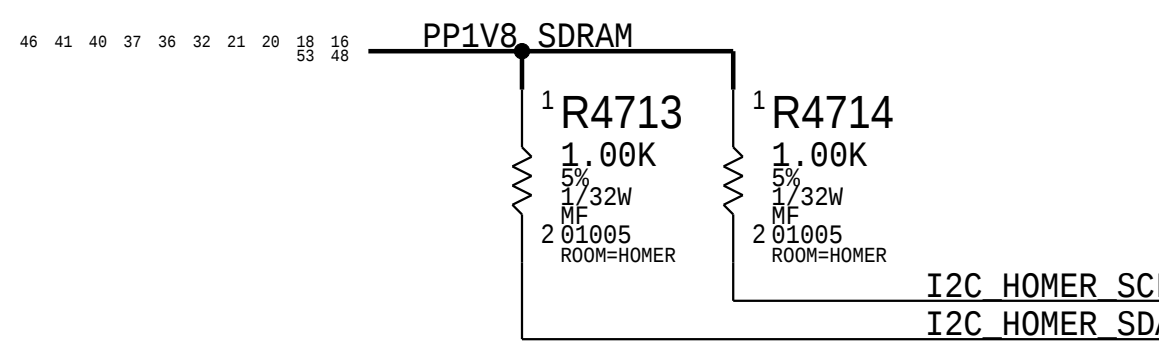
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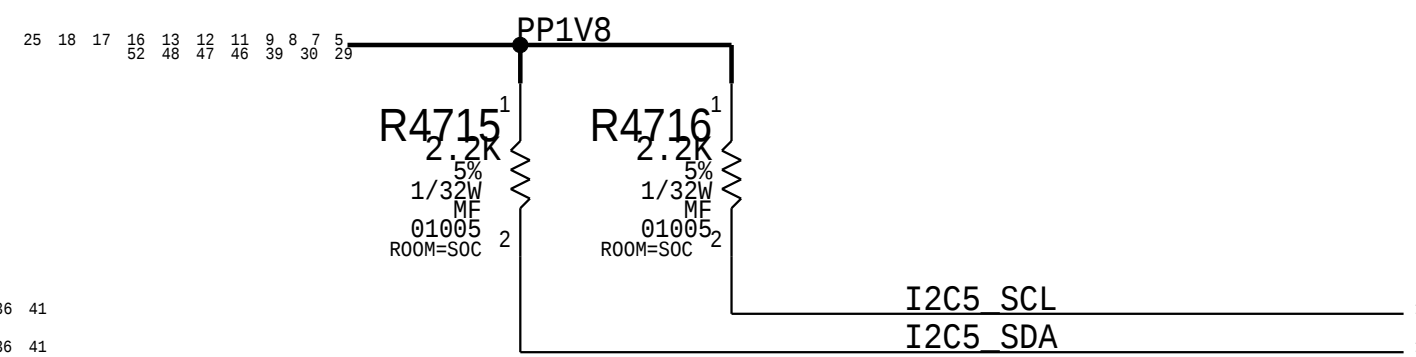
TOUCH



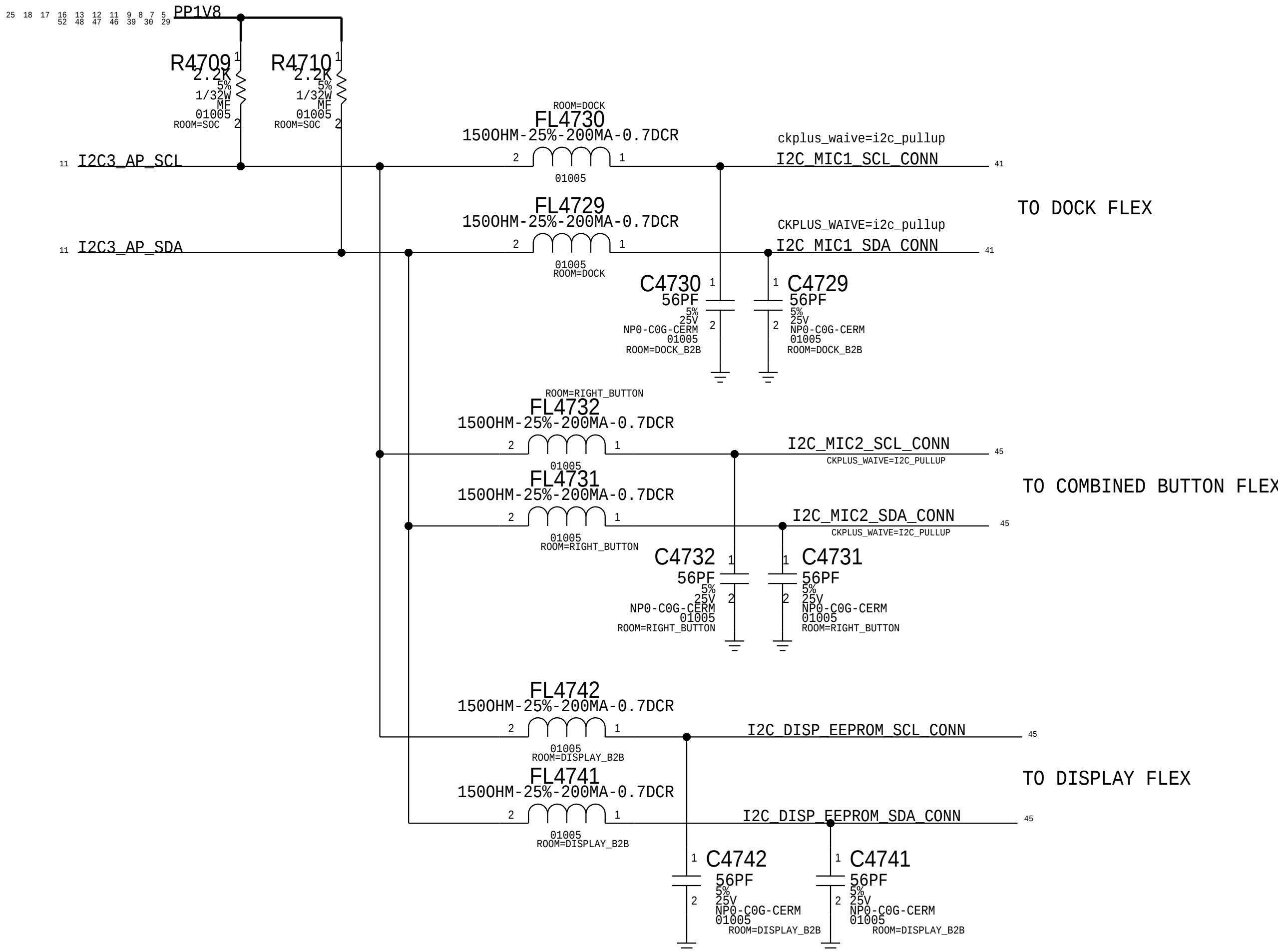
HOMER



I2C5



I2C3



PAGE TITLE			
I2C MAP: AP, TOUCH, HOMER, I2C5			
	DRAWING NUMBER	051-00542	SIZE D
	REVISION	5.0.0	BRANCH
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			SHEET 47 OF 81

AOP

I2C

ISP

I2C0

#24544699: Support 1MHz

#24550735: ISP I2C0 PU

#24958320: Intentional R4815 Change
Reduce undershoot when Prox Driving

Intentional R4815 Change

TO MAMBA/MESA FLEX

PAGE TITLE		
I2C MAP AOP		
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	PAGE	48 OF 53
	SHEET	48 OF 81

D1x I2C Table

Bus	Device	Binary	7-bit Address	8-bit Address	Max Speed
ISP I2C0 <i>1MHz</i>	SALT LAKE (PRIMARY)	0010000X	0x10	0x20	1 MHz
	SALT LAKE (SECONDARY)	0110000X	0x30	0x60	1 MHz
	GRUNBERG (STANDARD)	0011100X	0x1C	0x38	1 MHz
	GRUNBERG (SPECIAL ABSOLUTE R/W)	0011101X	0x1D	0x3A	1 MHz
	GRUNBERG (SPECIAL DELTA READ)	0011110X	0x1E	0x3C	1 MHz
	STROBE 1	1100011X	0x63	0xC6	1 MHz
ISP I2C1 <i>1MHz</i>	LAS VEGAS (PRIMARY)	0100000X	0x20	0x40	1 MHz
	LAS VEGAS (SECONDARY)	0110000X	0x30	0x60	1 MHz
	EDWIN	1100011X	0x63	0xC6	400 kHz
	STROBE 2	0000110X	0x06	0x0C	1 MHz
ISP I2C2 <i>400kHz</i>	CONCORD	0010000X	0x10	0x20	1 MHz
AOP I2C <i>1MHz</i>	ARC DRIVER 1	100000YX	0x41	0x82	1 MHz
	PROX	1011000X	0x58	0xB0	1 MHz
	SPKAMP1 (L26)	100000YX	0x40	0x80	1 MHz
	TURTLE	0101100X	0x2c	0x58	400 kHz
	MESA	1100001X	0x61	0xC2	400 kHz
Touch I2C <i>600kHz</i>	MAMBA	1100000X	0x60	0xC0	1 MHz
	MESON	1000000X	0x40	0x80	510 kHz
EEPROM I2C	EEPROM	1010001X	0x51	0xA2	400 kHz
AP I2C0 <i>400kHz</i>	BOOST	1110101X	0x75	0xEA	3.4 MHz
	TRISTAR	0011010X	0x1A	0x34	400 kHz
	BACKLIGHT 1	1100010X	0x62	0xC4	1 MHz
	CHESTNUT	0100111X	0x27	0x4E	400 kHz
AP I2C1 <i>400kHz</i>	ADELYN	1110100X	0x74	0xE8	400 kHz
	TIGRIS	1110101X	0x75	0xEA	400 kHz
	BACKLIGHT 2	1100010X	0x62	0xC4	1 MHz
AP I2C2 <i>400kHz</i>	ALS	0101001X	0x29	0x52	400 kHz
	CONVOY	0100001X	0x21	0x42	3.4 MHz
		0100010X	0x22	0x44	400 kHz
	SPKAMP 2 (L26)	10000ZYX	0x40	0x80	400 MHz
AP I2C3 <i>100kHz</i>	DOCK FLEX (MIC1)	1010100X	0x54	0xA8	1 MHz
	COMBINED BUTTON FLEX (MIC2)	1010100X	0x56	0xAC	1 MHz
	DISP EEPROM	1010001X	0x51	0xA2	400kHz
Homer I2C <i>1MHz</i>	SCHRODINGER (STANDARD)	0001110X	0xE	0x1C	1 MHz
	SCHRODINGER (CAL REG'S)	0001111X	0xF	0x1D	1 MHz
	EEPROM (STANDARD)	1010000X	0x50	0xA0	
	EEPROM (CONFIG)	1010000X	0x50	0xA0	

PAGE TITLE		I2C TABLE	
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		SIZE	D
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		BRANCH	
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		SHEET	49 OF 81

D



BASEBAND MEMORY/DEBUG

D

C

B

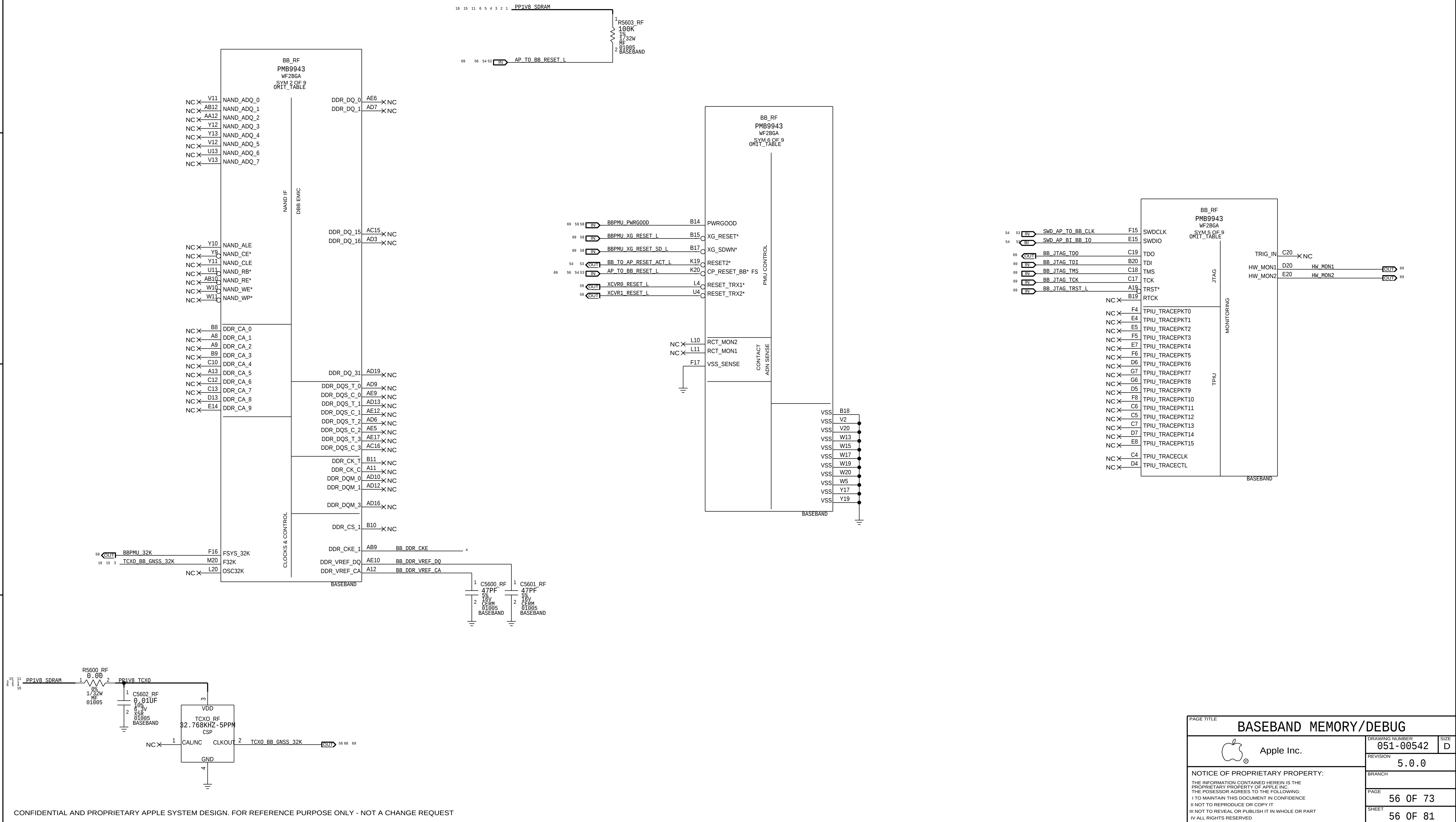
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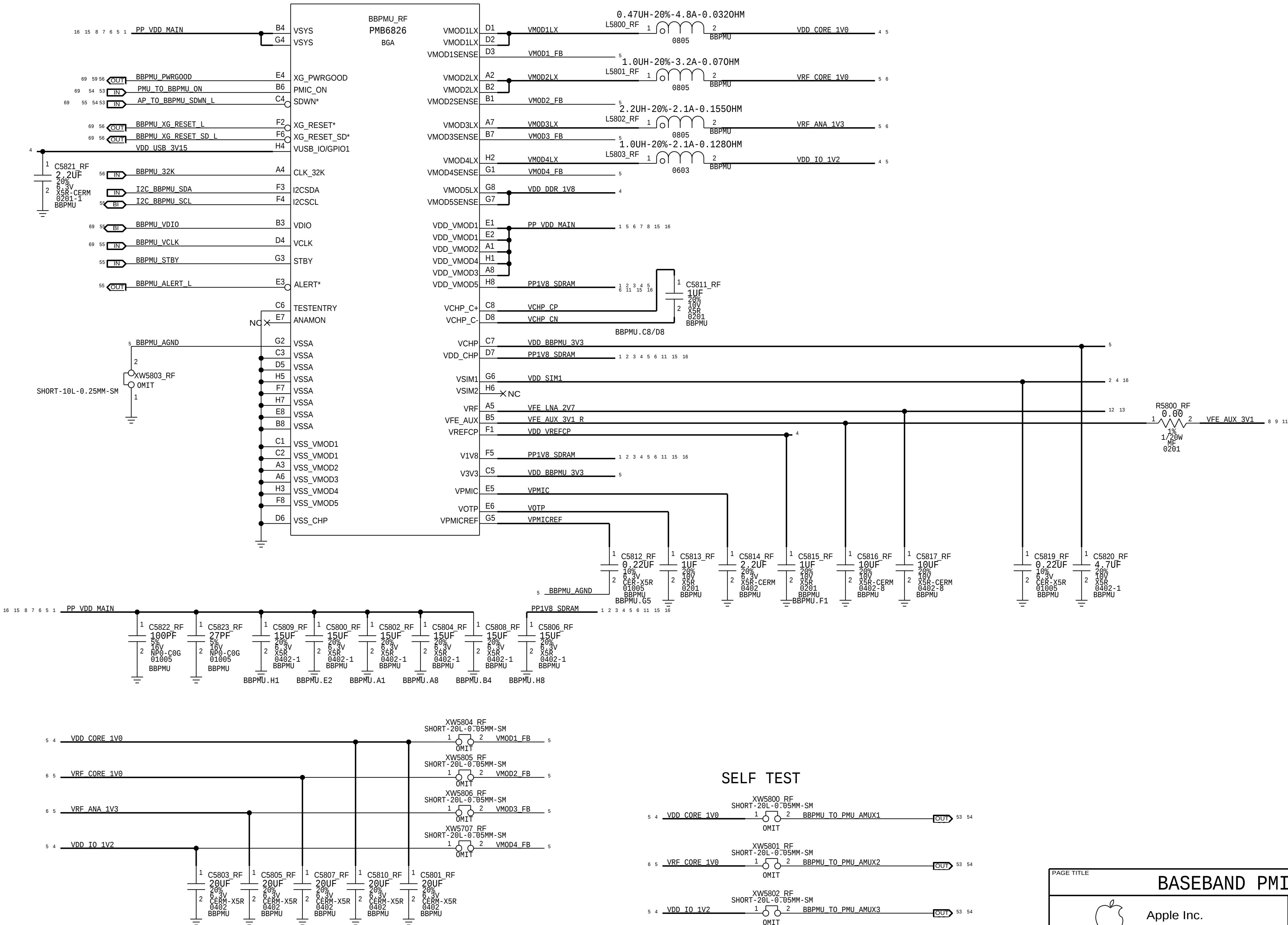
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BASEBAND MEMORY/DEBUG		
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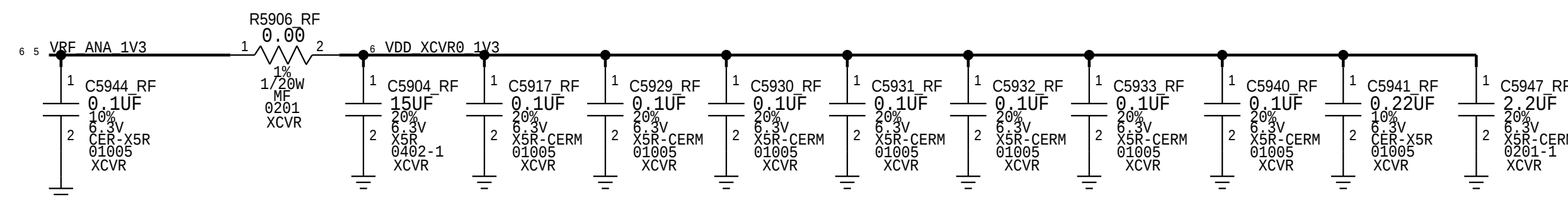
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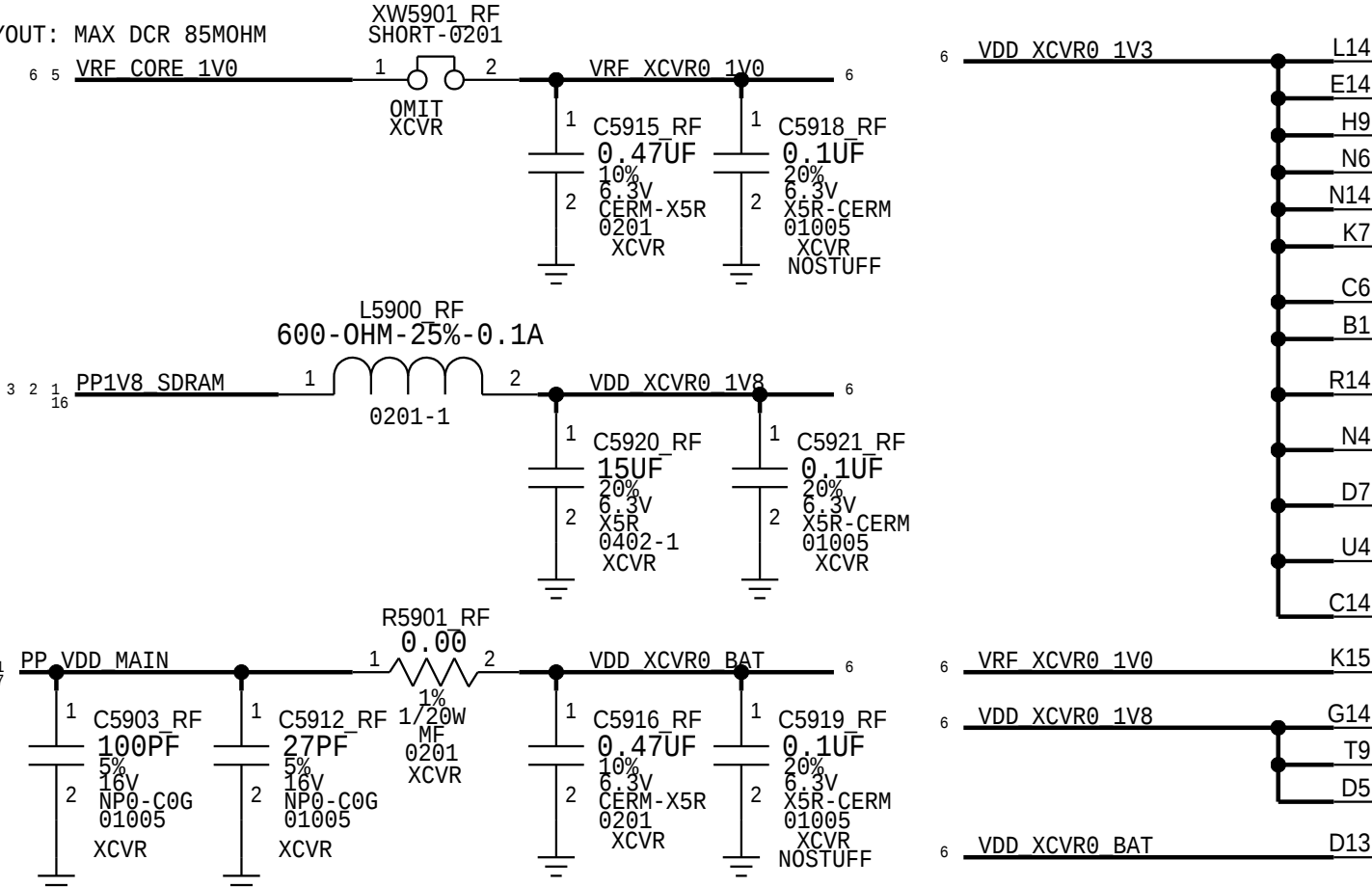
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		BRANCH	
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TRANSCEIVERS

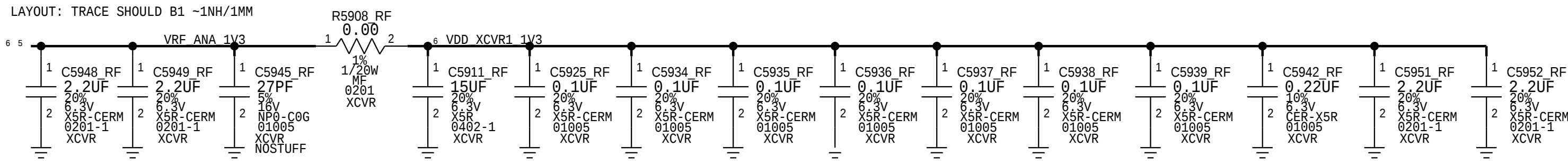
LAYOUT: TRACE SHOULD B1 ~1NH/1MM



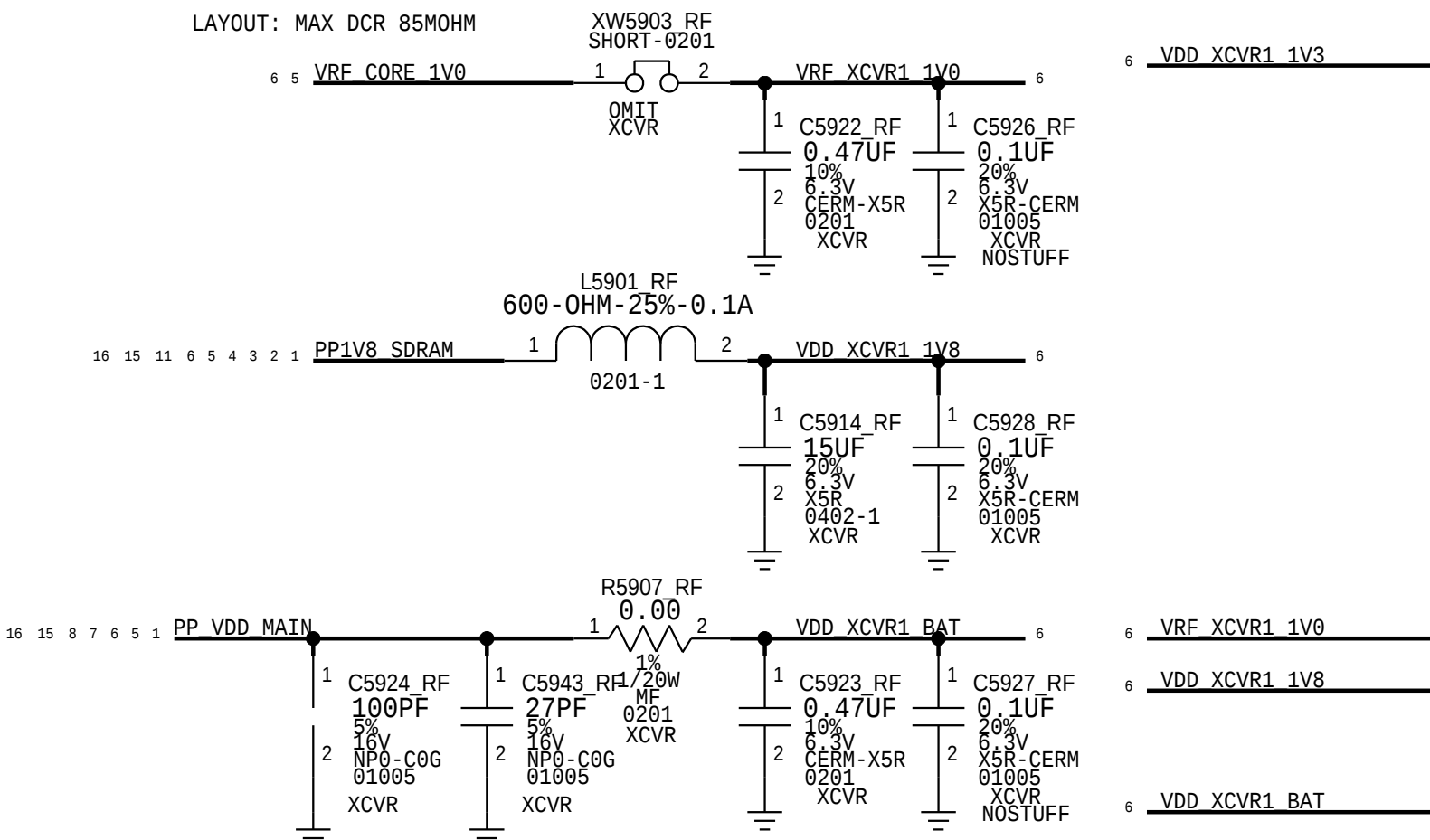
LAYOUT: MAX DCR 85MOHM



LAYOUT: TRACE SHOULD B1 ~1NH/1MM



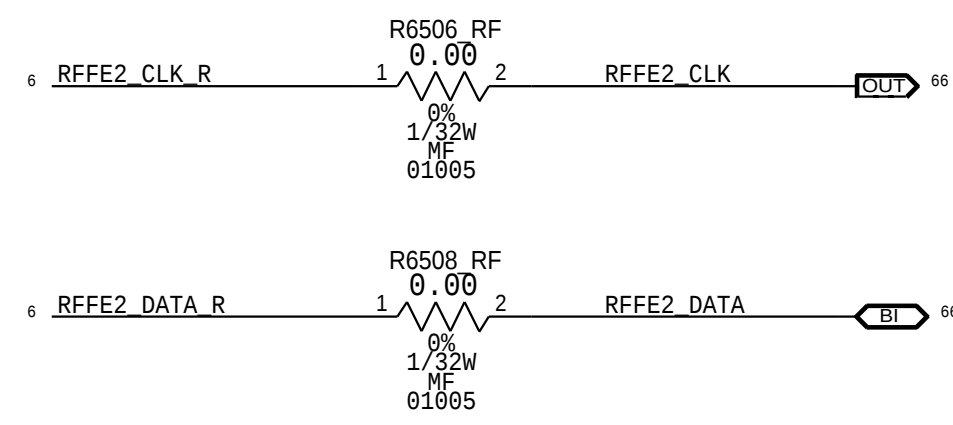
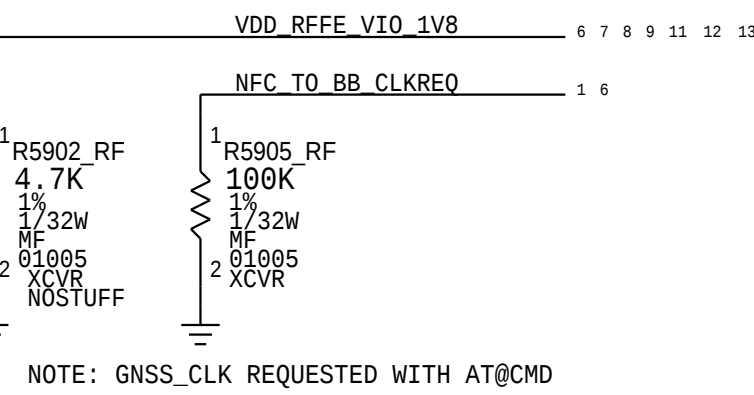
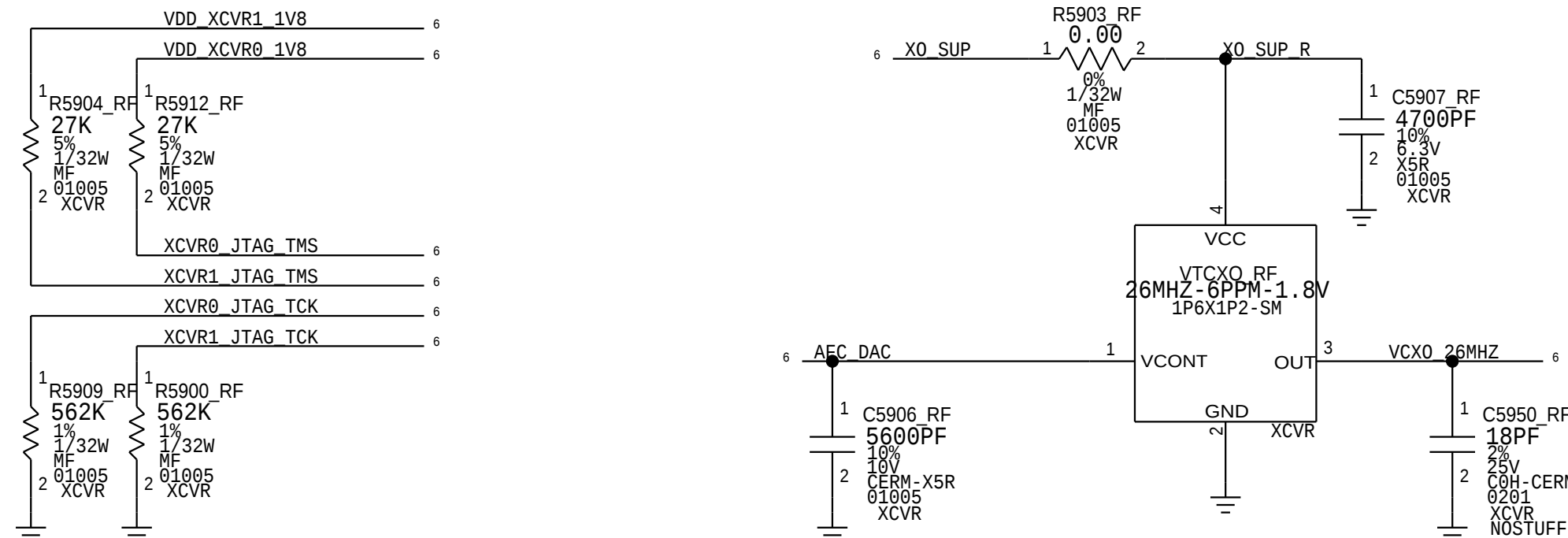
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SMARTI5

SMARTI5

VCTCXO

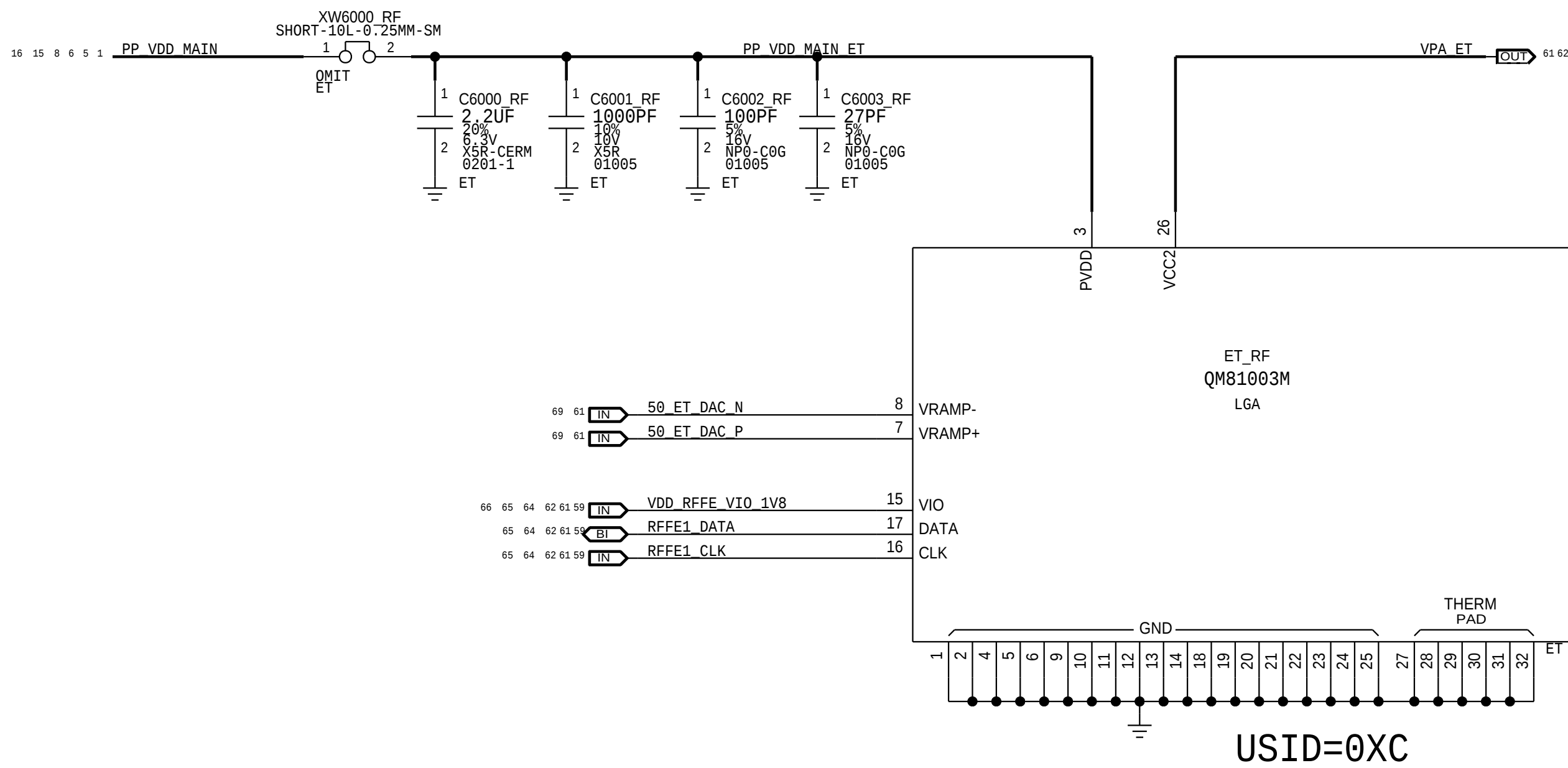


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ET MODULATOR

ALPES II ES2



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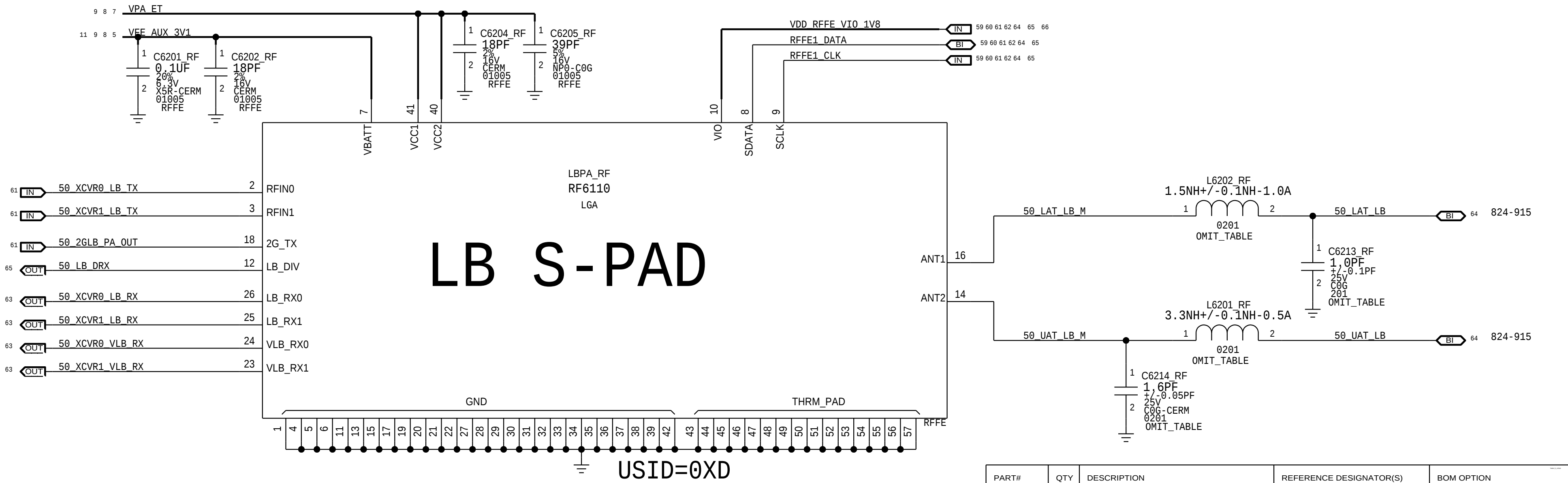
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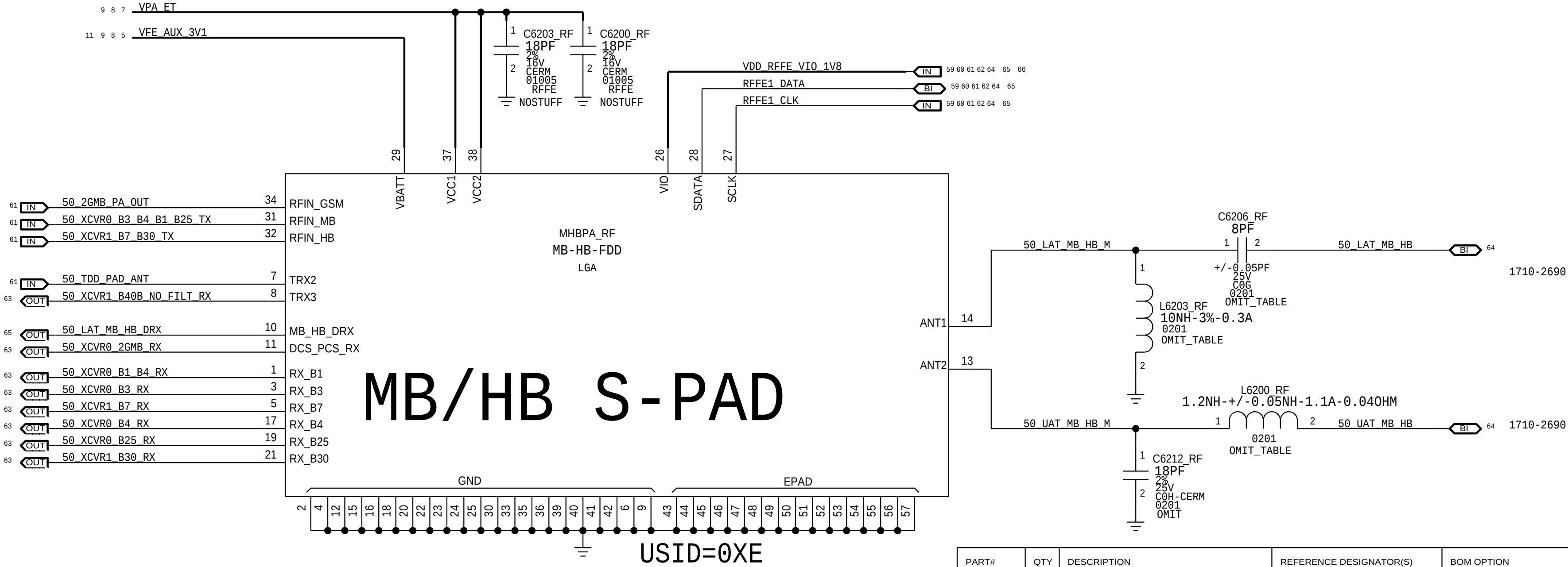
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A

FDD TRANSMIT



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S2821	1	IND, 1.5NH, 0201, UH-Q	L6202_RF	D101
131S0278	1	CAP, 1.0PF, 0201, HQ	C6213_RF	D101
152S2804	1	IND, 3.3NH, 0201, UH-Q	L6201_RF	D101
131S0338	1	CAP, 1.6PF, 0201, HF	C6214_RF	D101
152S00151	1	IND, 0.8NH, 0201, UH-Q	L6202_RF	D111
131S0312	1	CAP, 1.2PF, 0201, HQ	C6213_RF	D111
152S2802	1	IND, 2.7NH, 0201, UH-Q	L6201_RF	D111
131S0338	1	CAP, 1.6PF, 0201, HF	C6214_RF	D111



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
131S00068	1	CAP, 8.0PF, 0201, HQ	C6206_RF	D101
152S2041	1	IND, 10NH, 0201, UH-Q	L6203_RF	D101
152S00157	1	IND, 1.2NH, 0201, UH-Q	L6200_RF	D101
NOSTUFF			C6212_RF	D101
131S00068	1	CAP, 8.0PF, 0201, HQ	C6206_RF	D111
152S00020	1	IND, 12NH, 0201, UH-Q	L6203_RF	D111
152S2021	1	IND, 1.5NH, 0201, UH-Q	L6200_RF	D111
NOSTUFF			C6212_RF	D111

DRAWING NUMBER

051-00542

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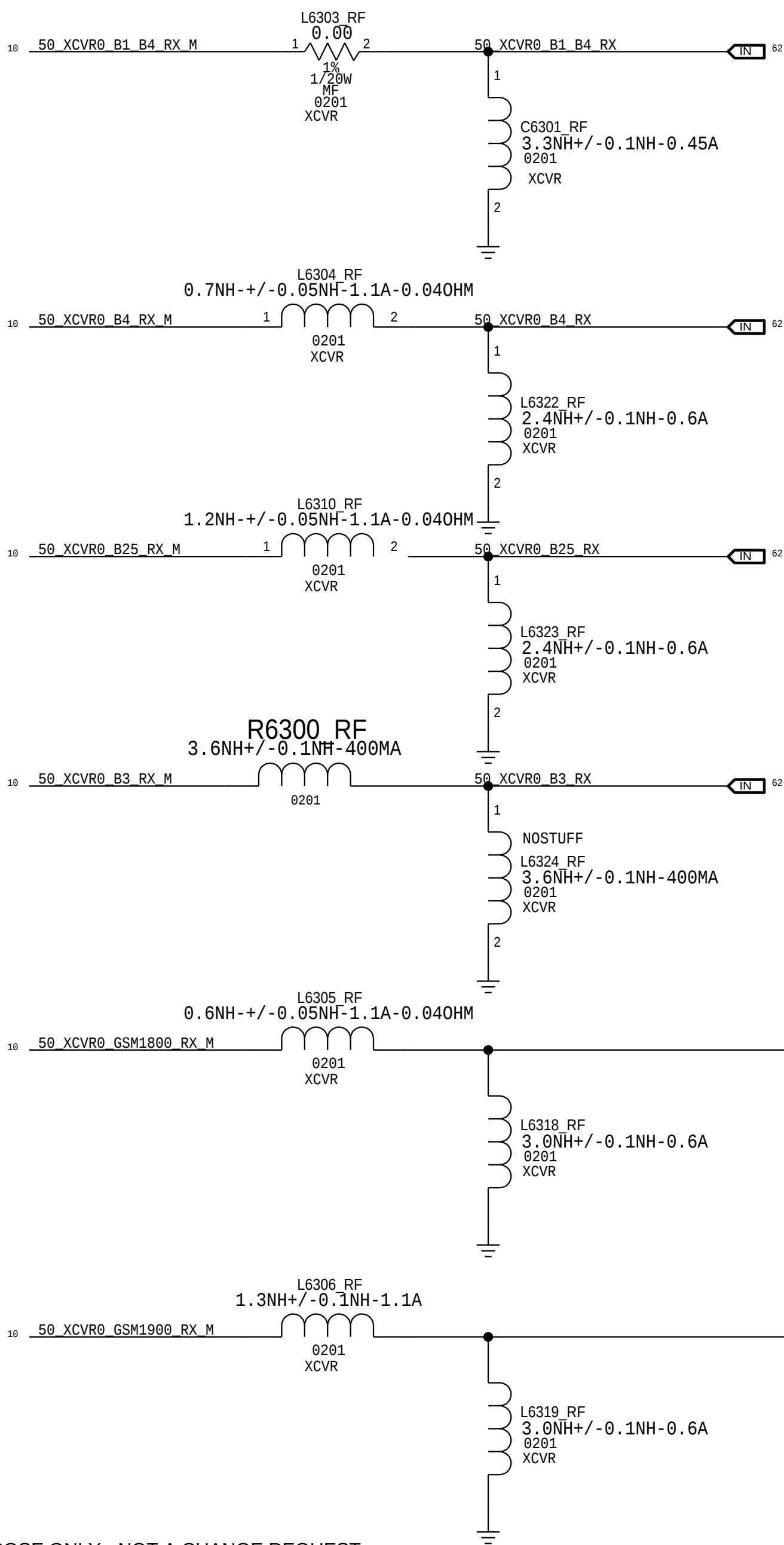
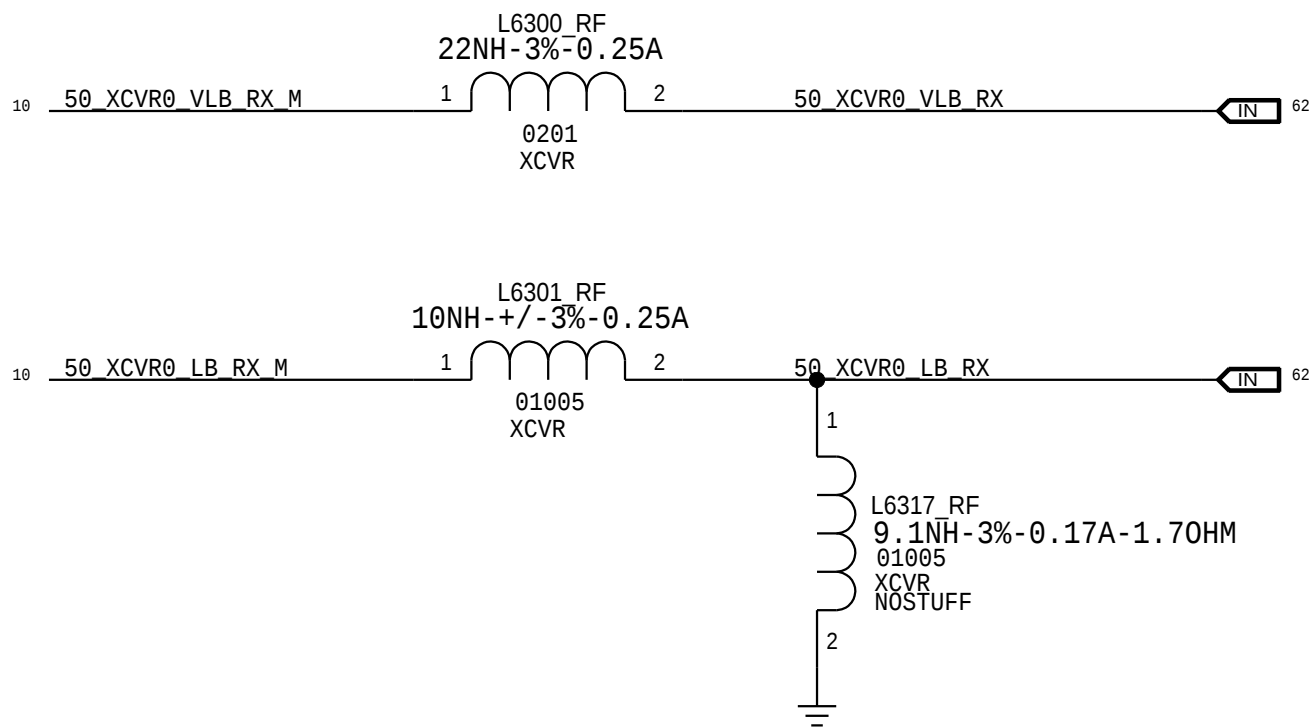
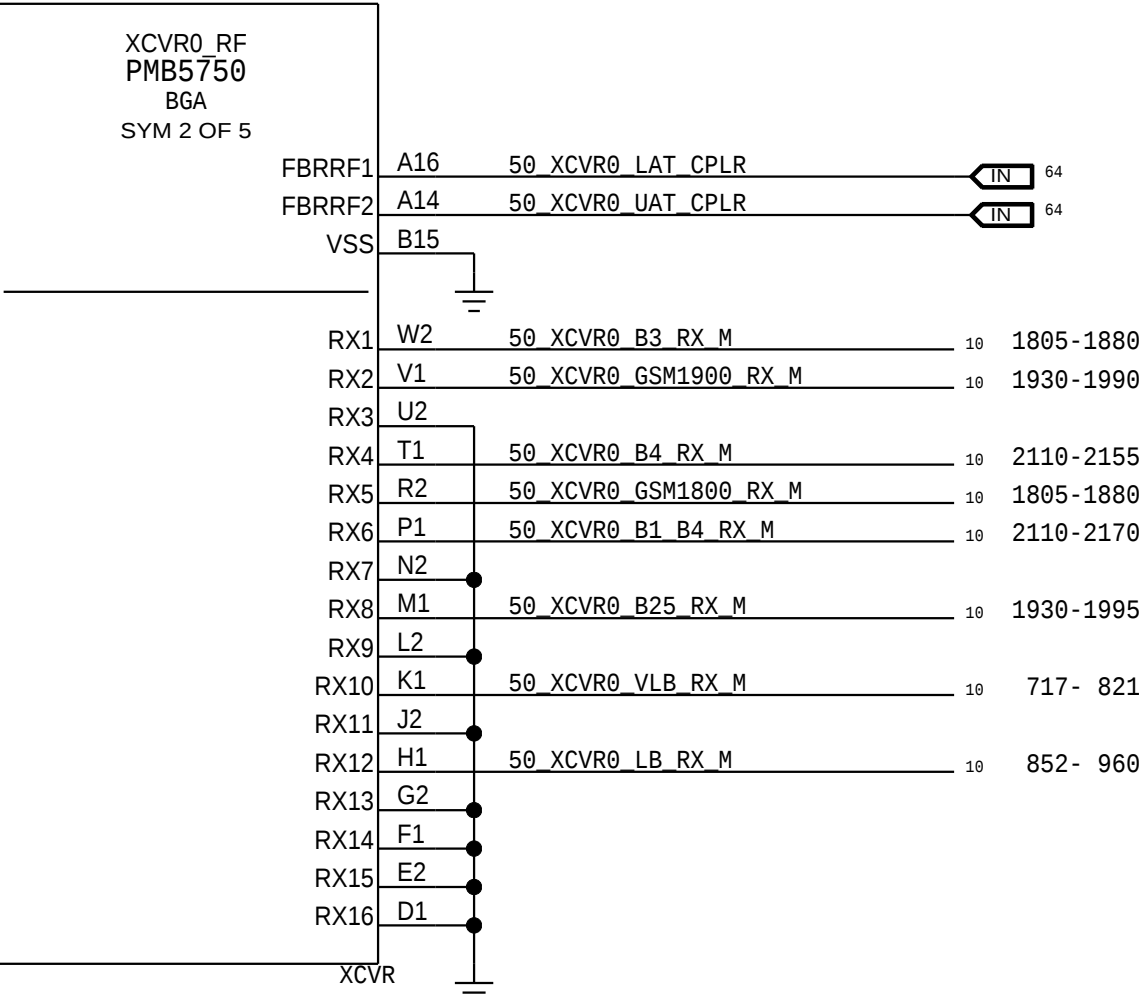
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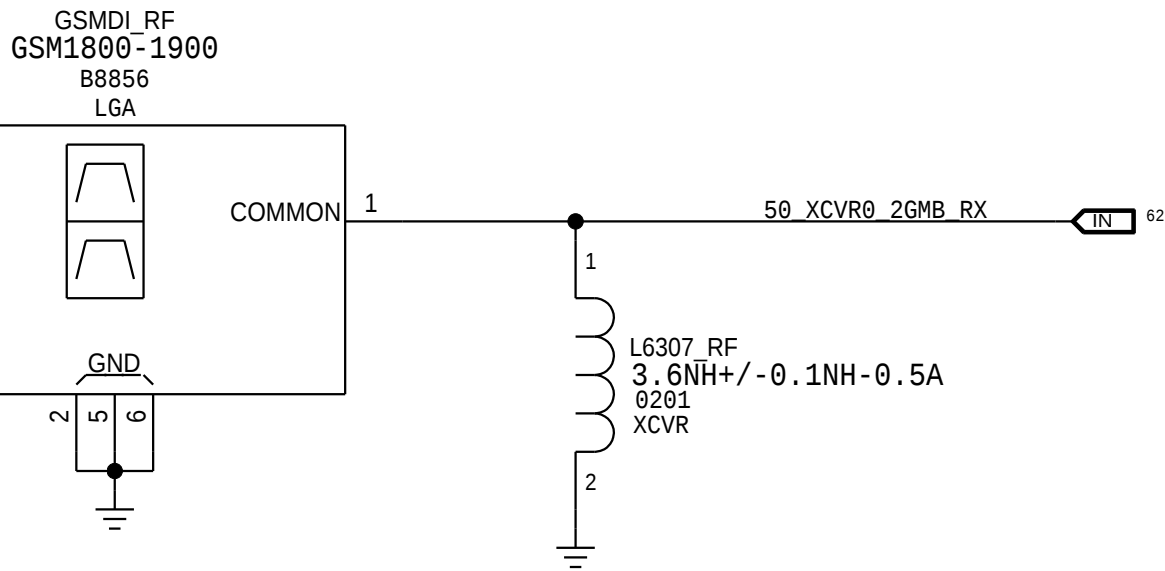
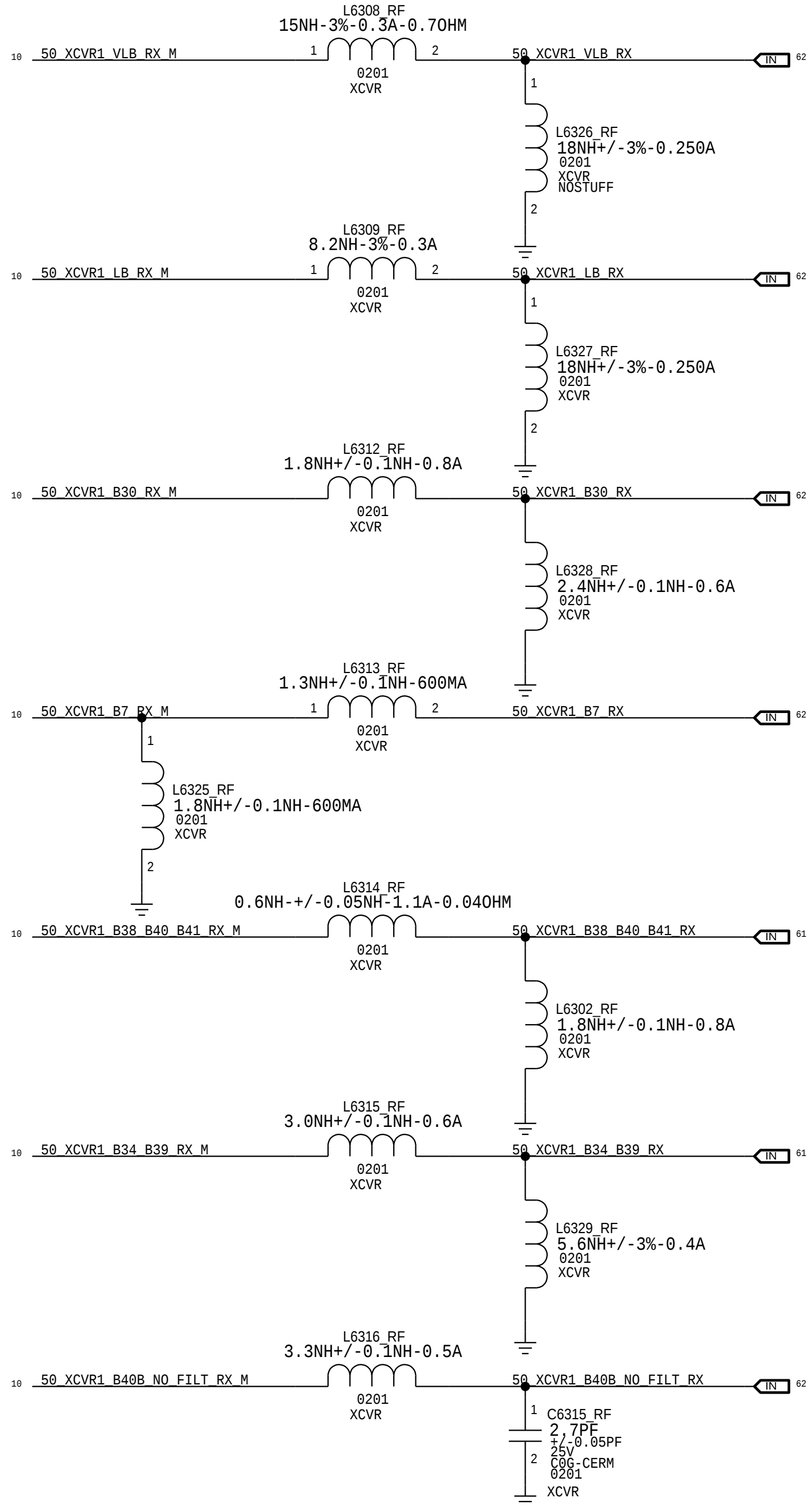
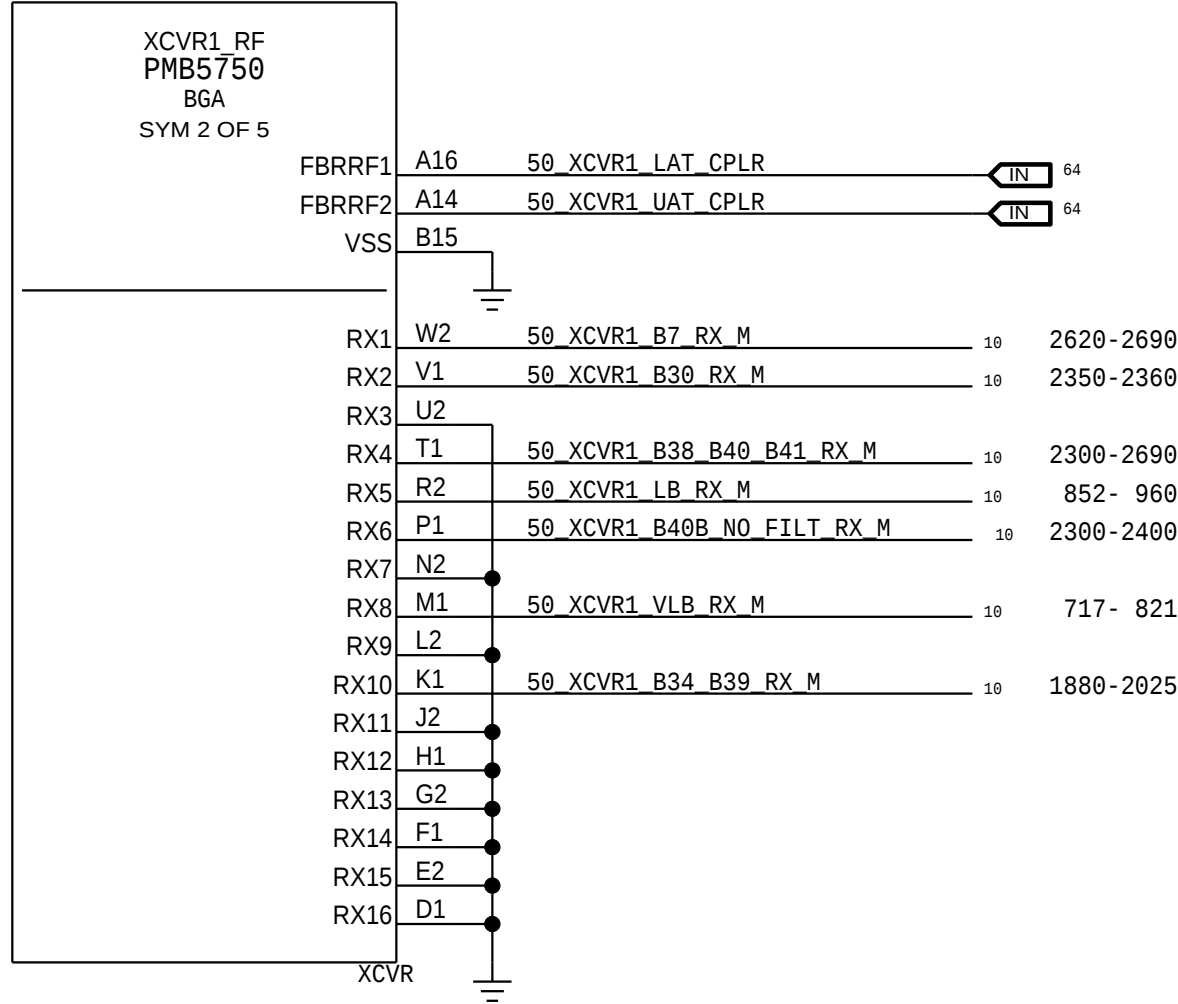
FDD TRANSMIT

PRIMARY RECIEVE

XCVR PRX



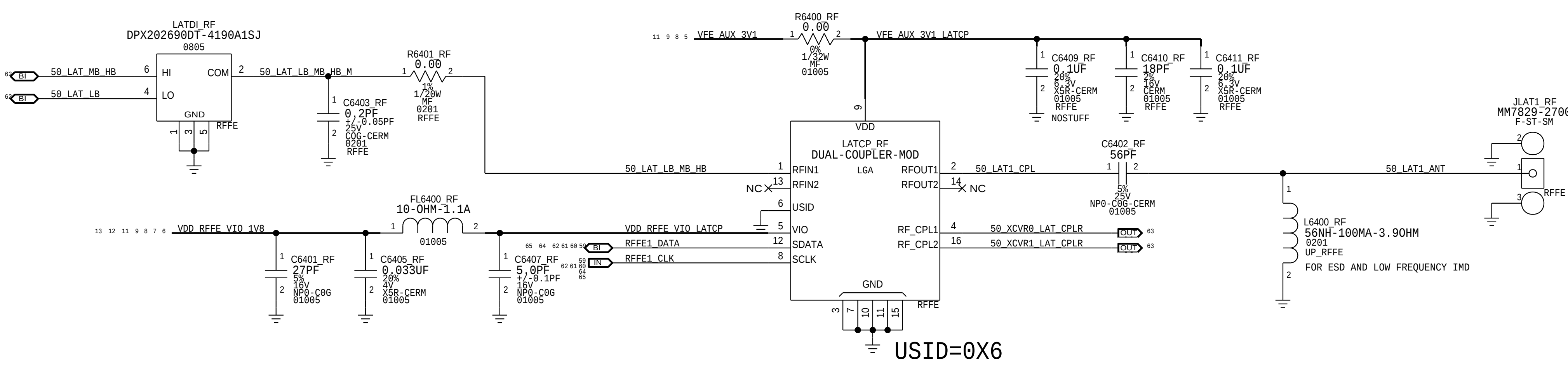
XCVR PRX



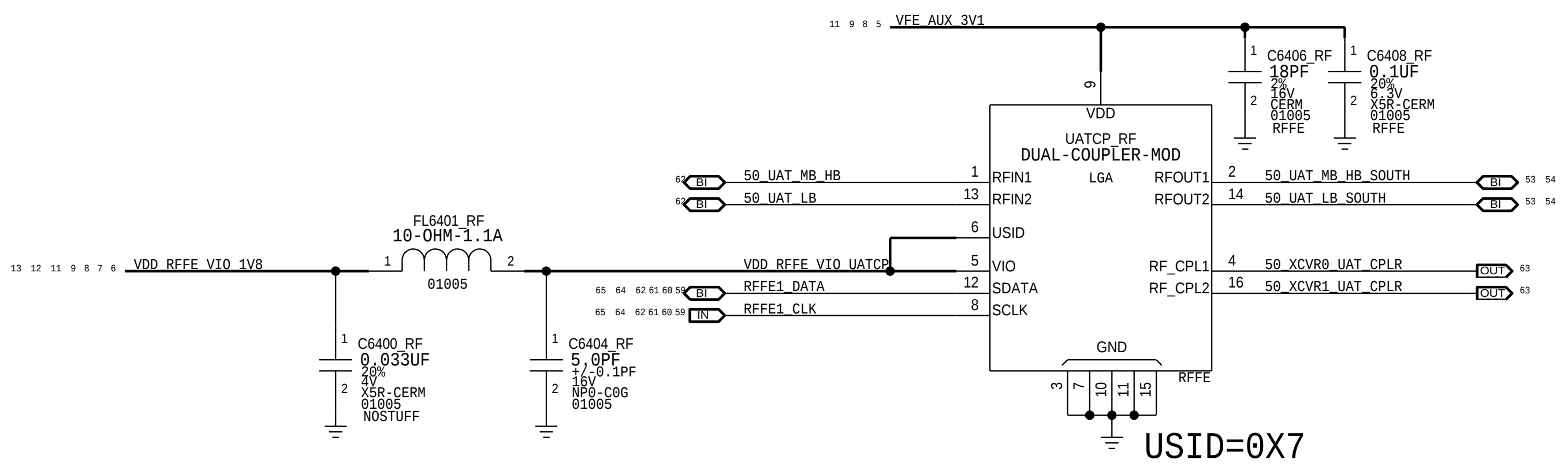
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LOWER ANTENNA AND COUPLER

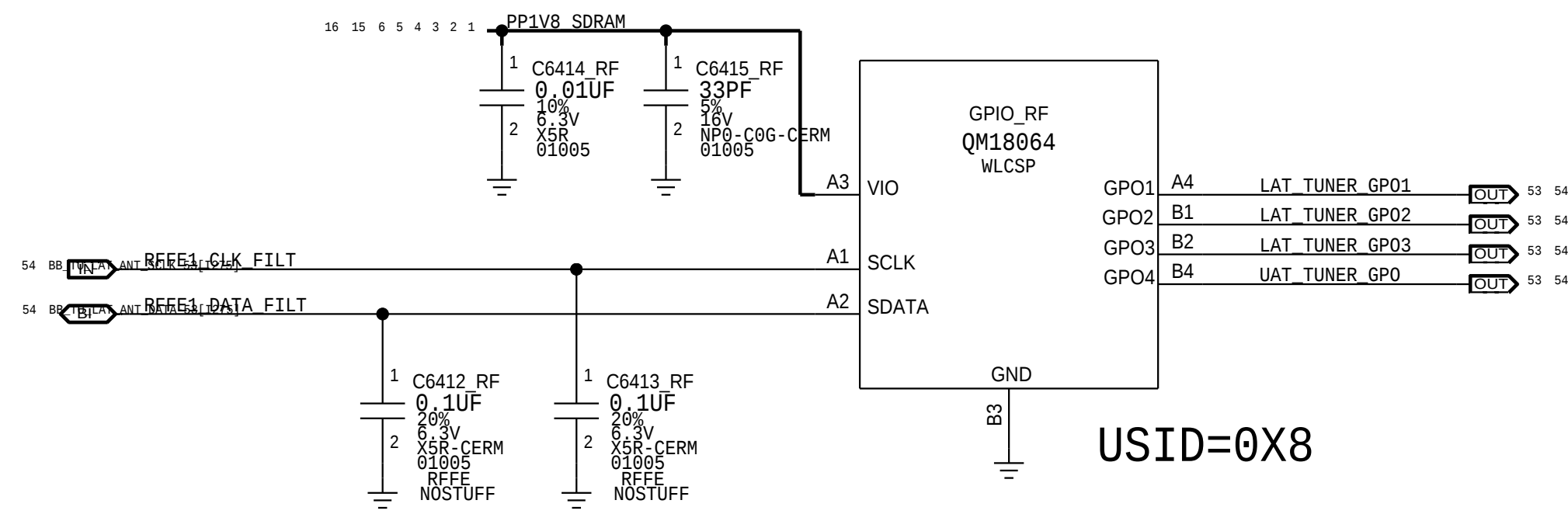
LOWER ANTENNA COUPLER



UPPER ANTENNA COUPLER

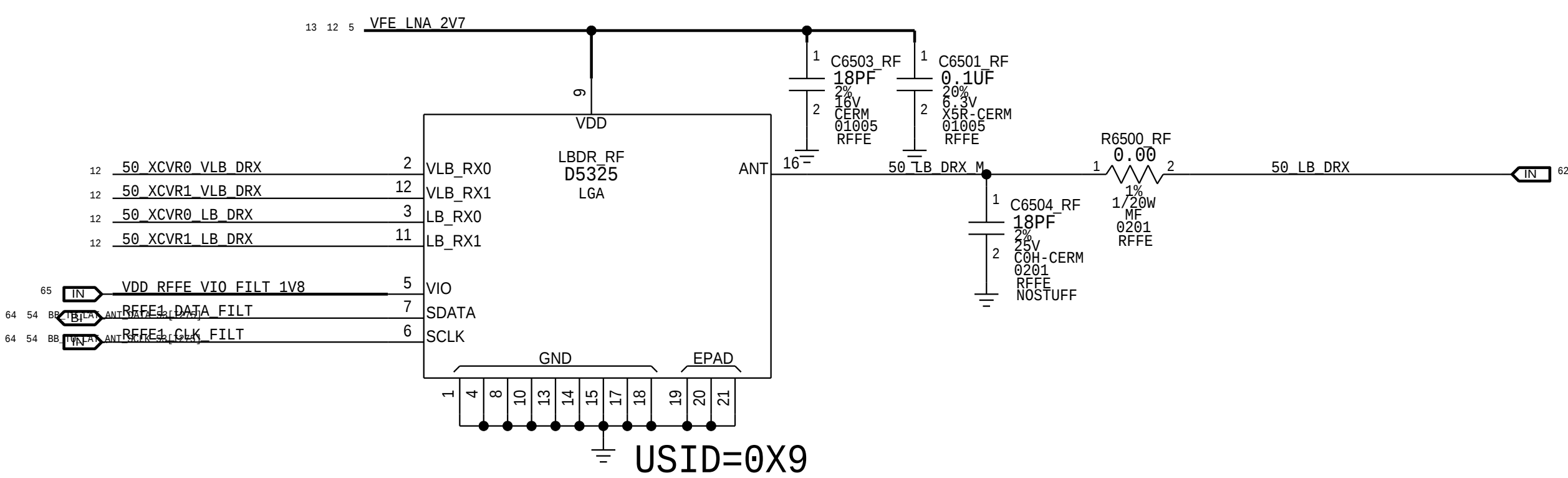
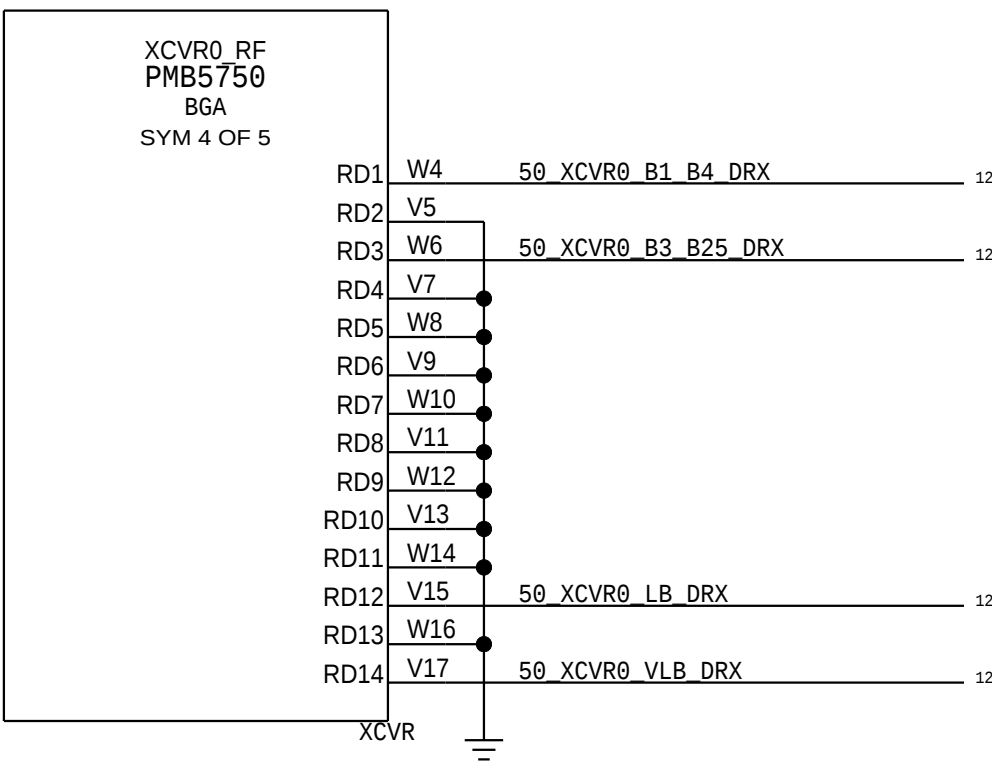


TUNER GPO

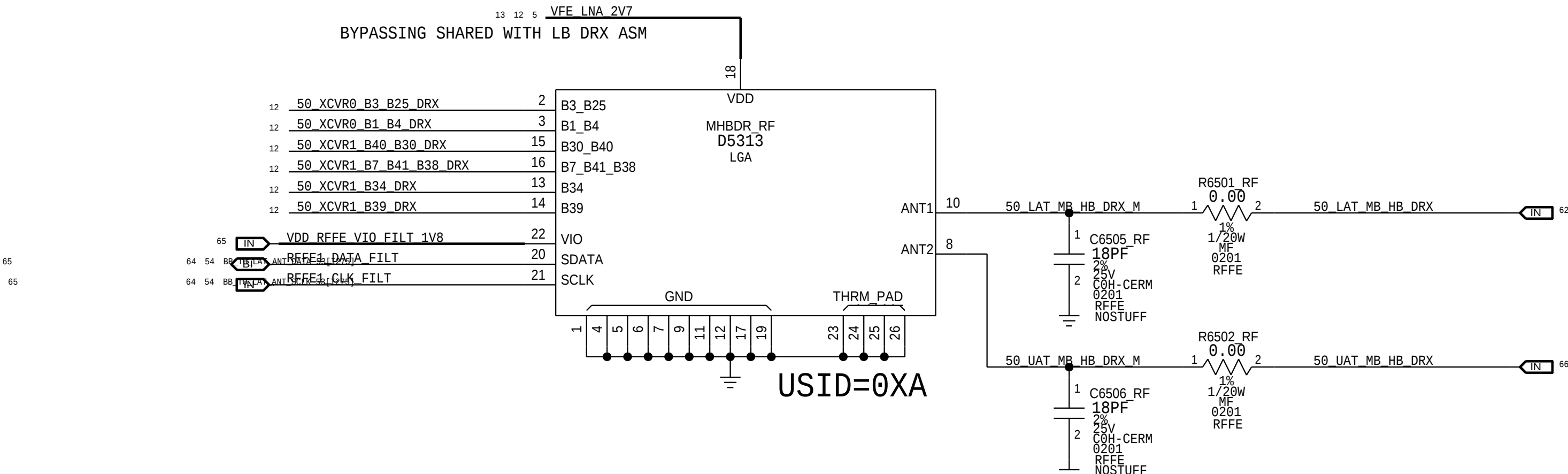
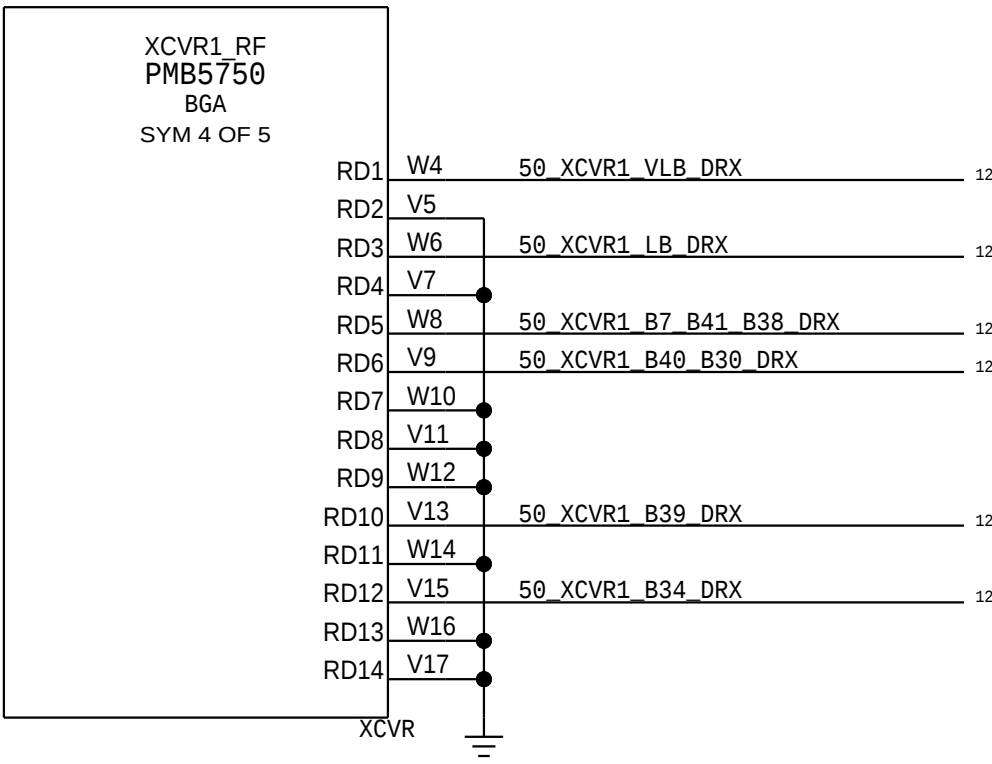


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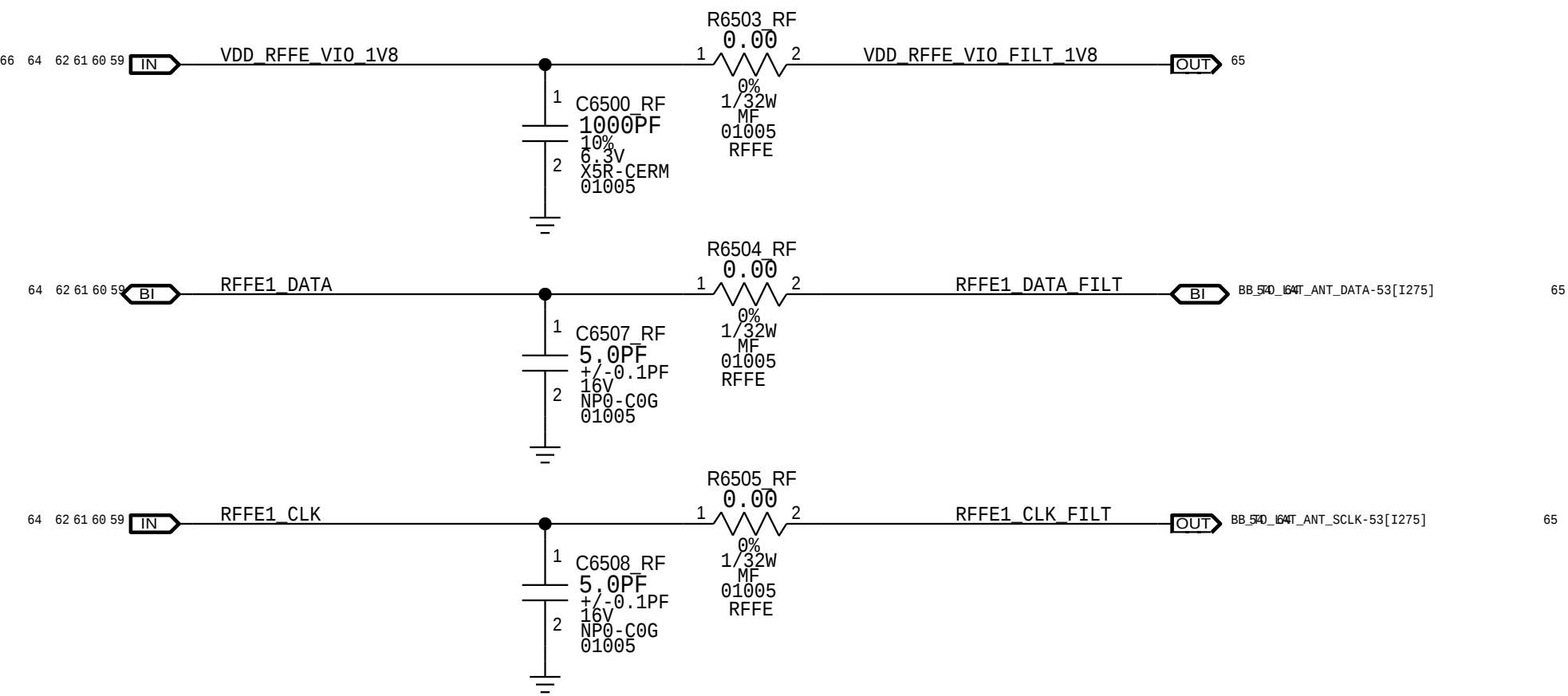
LB DRX ASM



MB HB DRX ASM



RFFE FILTERING



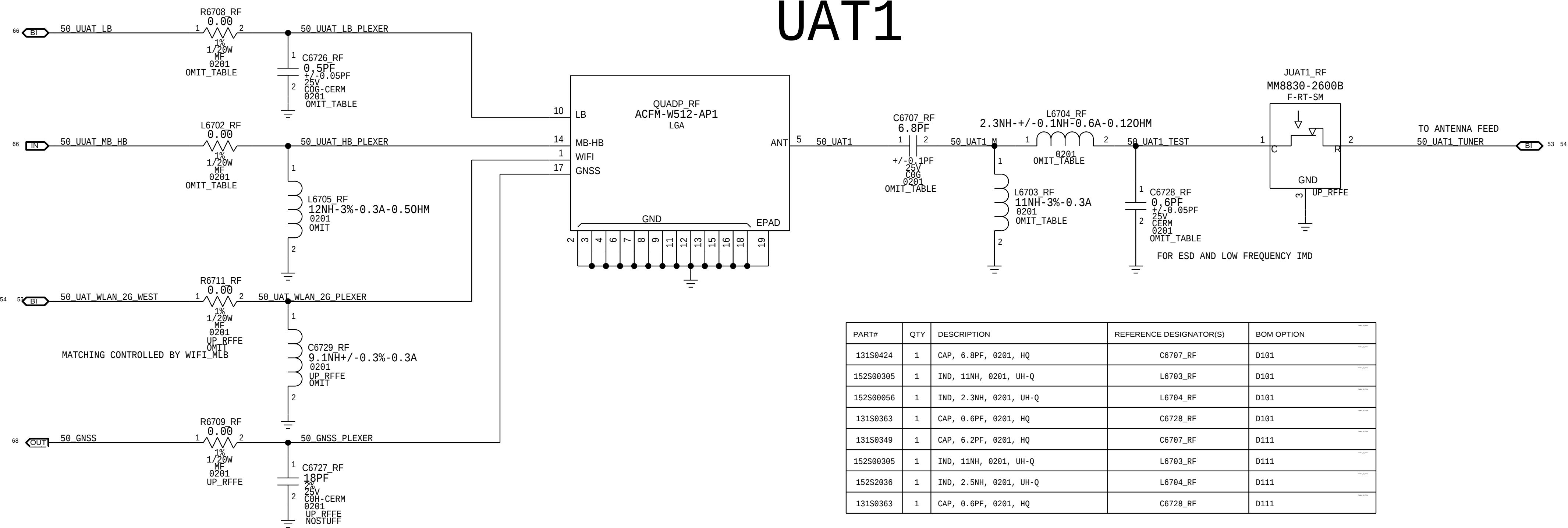
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D



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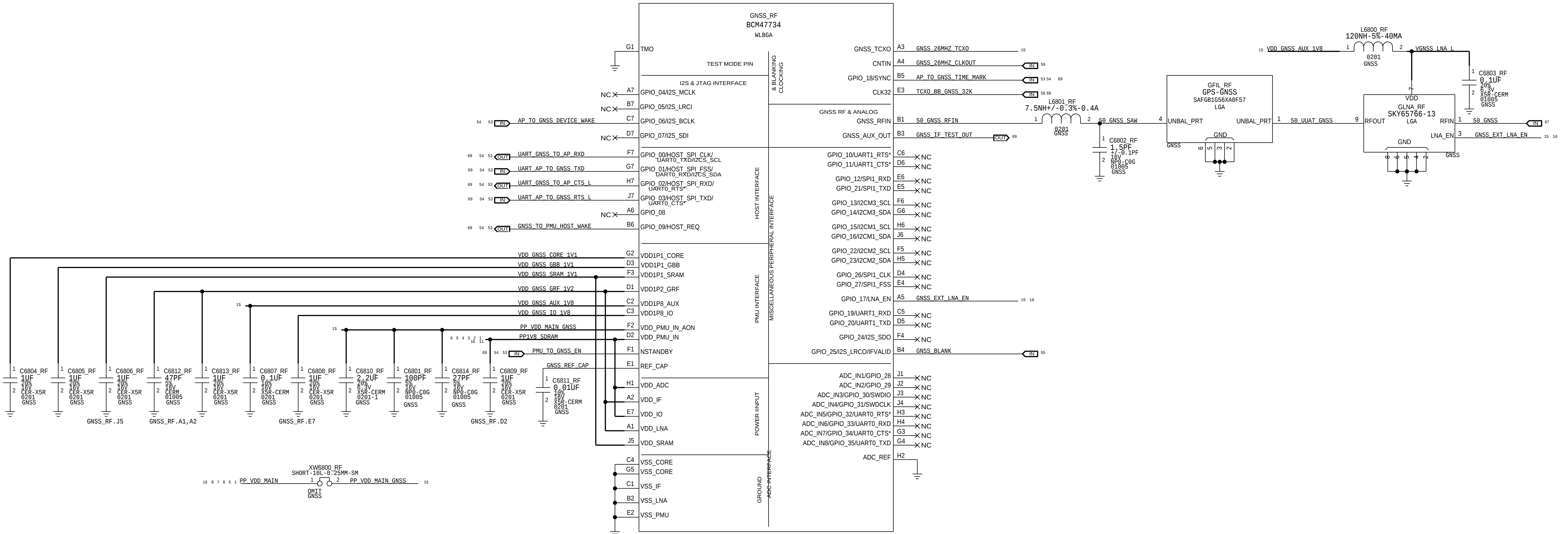
UPPER ANTENNA FEEDS



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
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152S00305	1	IND, 11NH, 0201, UH-Q	L6703_RF	D101
152S00056	1	IND, 2.3NH, 0201, UH-Q	L6704_RF	D101
131S0363	1	CAP, 0.6PF, 0201, HQ	C6728_RF	D101
131S0349	1	CAP, 6.2PF, 0201, HQ	C6707_RF	D111
152S00305	1	IND, 11NH, 0201, UH-Q	L6703_RF	D111
152S2036	1	IND, 2.5NH, 0201, UH-Q	L6704_RF	D111
131S0363	1	CAP, 0.6PF, 0201, HQ	C6728_RF	D111

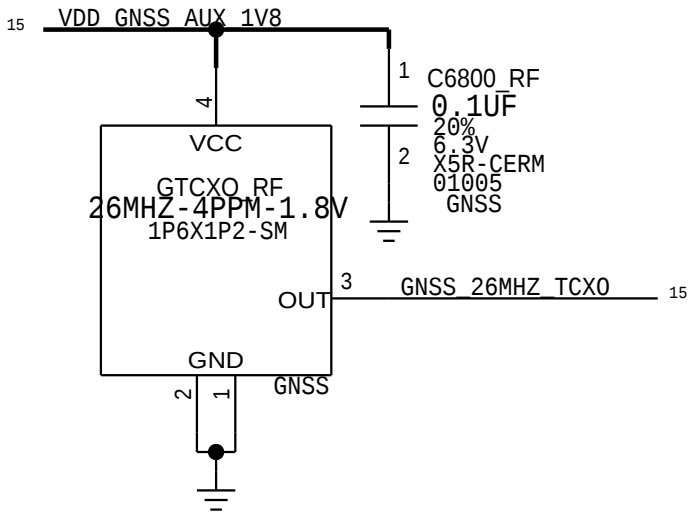
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118S0724	1	RES, 60HM, 0201	L6702_RF	D101
152S00020	1	IND, 12NH, 0201, UH-Q	L6705_RF	D101
118S0724	1	RES, 60HM, 0201	R6708_RF	D111
131S0425	1	CAP, 0.5PF, 0201, HQ	C6726_RF	D111
118S0724	1	RES, 60HM, 0201	L6702_RF	D111
152S00020	1	IND, 12NH, 0201, UH-Q	L6705_RF	D111

GNSS LNA + RECEIVER



TCX0

KEEP AWAY FROM HEAT SOURCES



GNSS			
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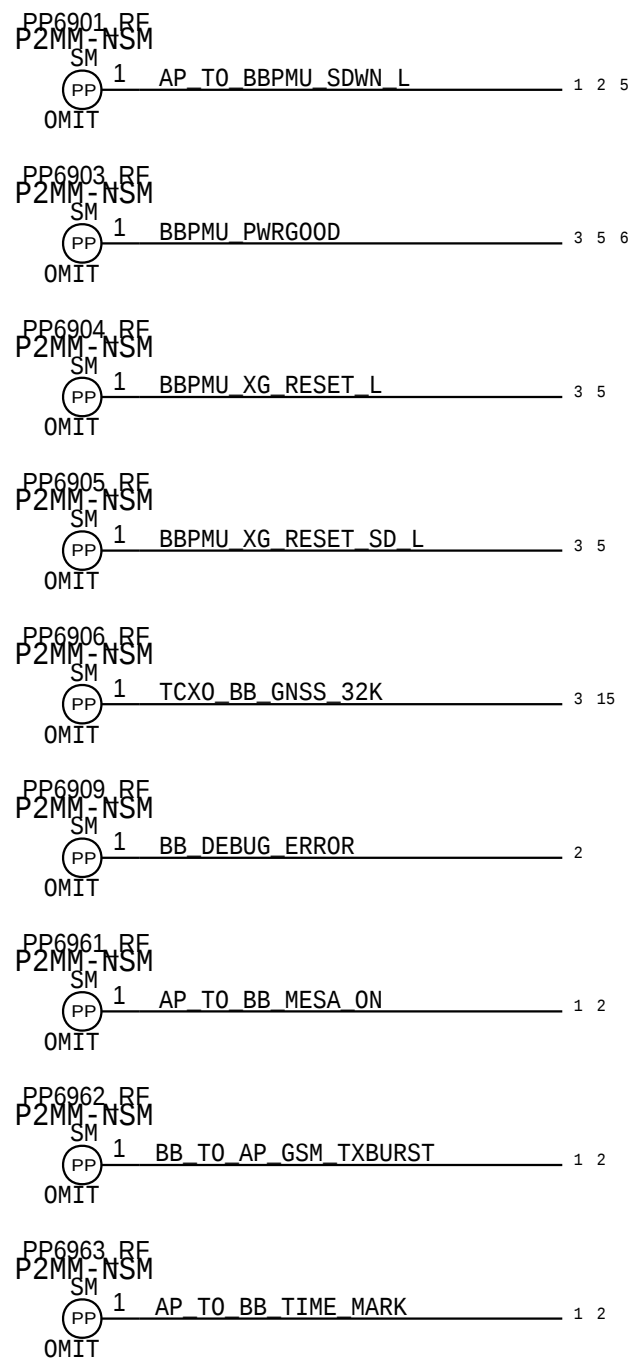
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SIM CARD CONNECTOR

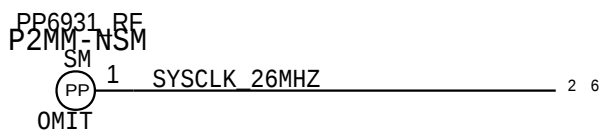
HARDWARE ID

DEV CONFIG

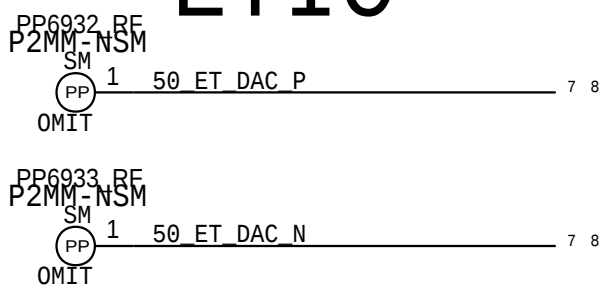
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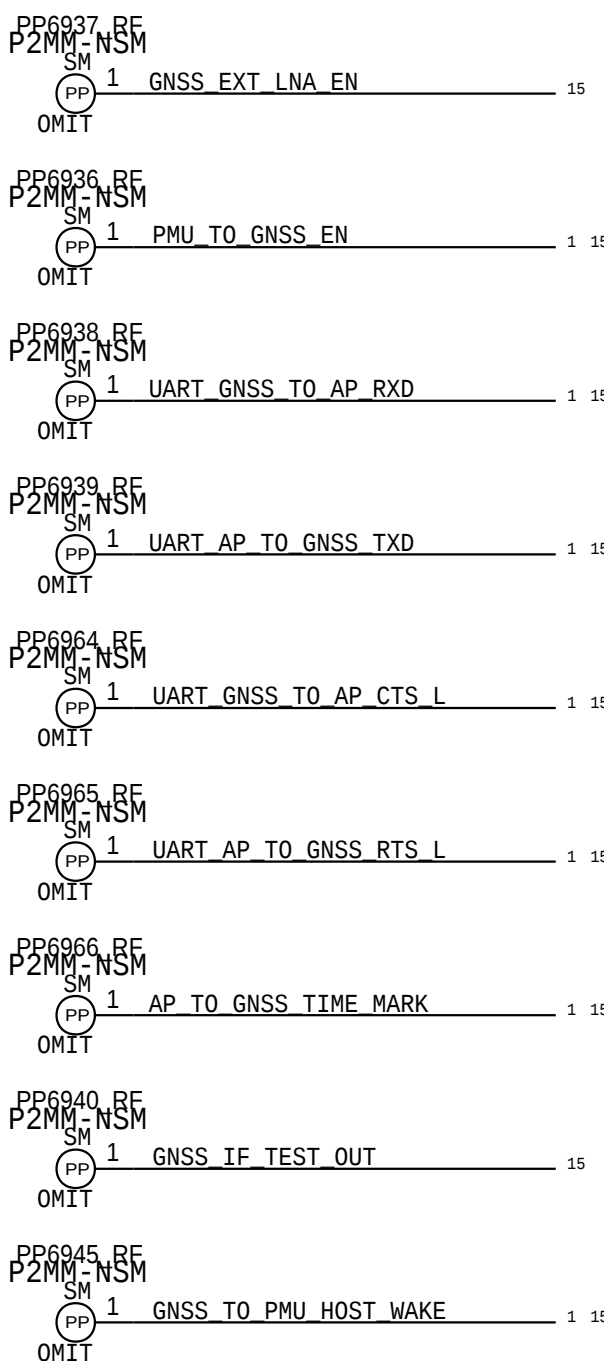
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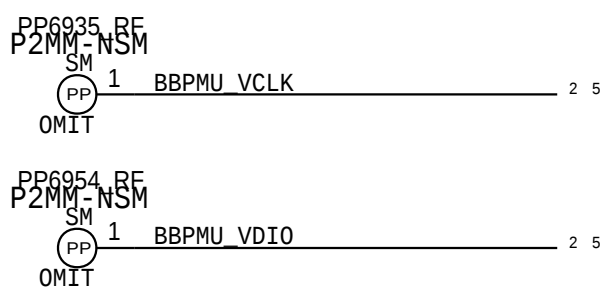
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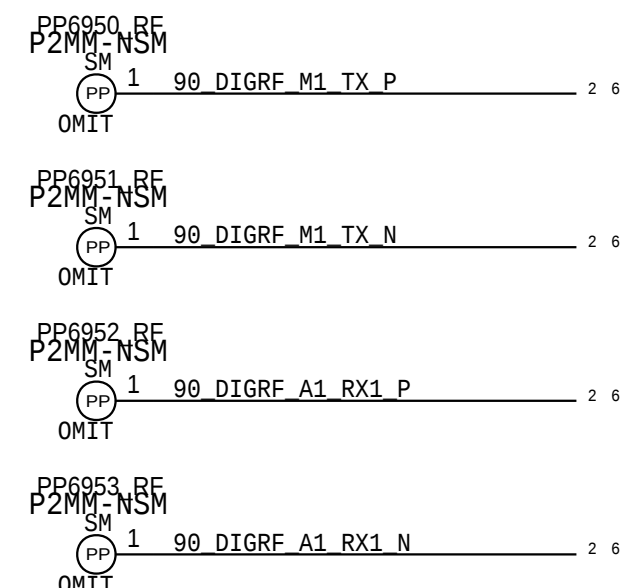
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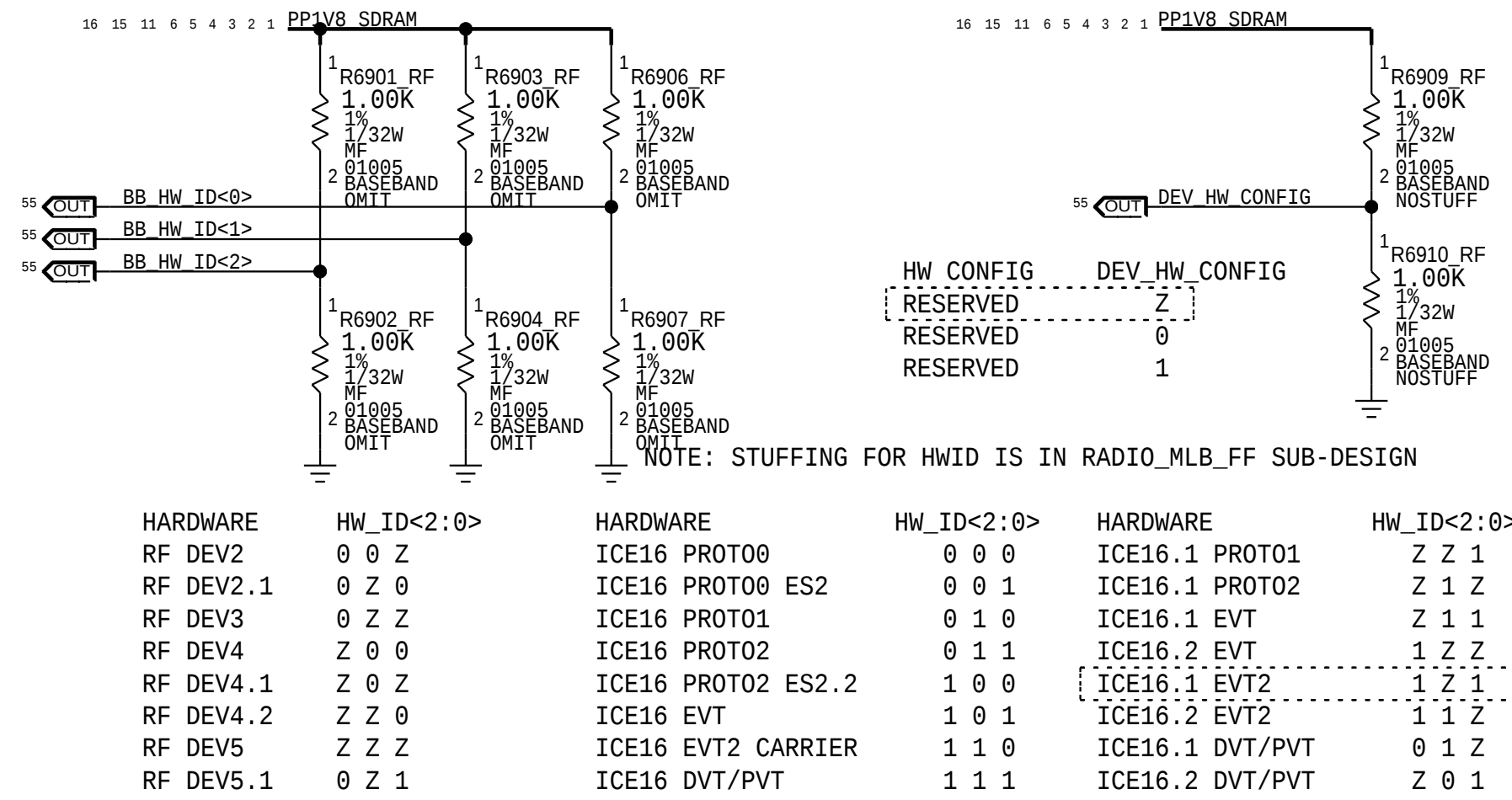
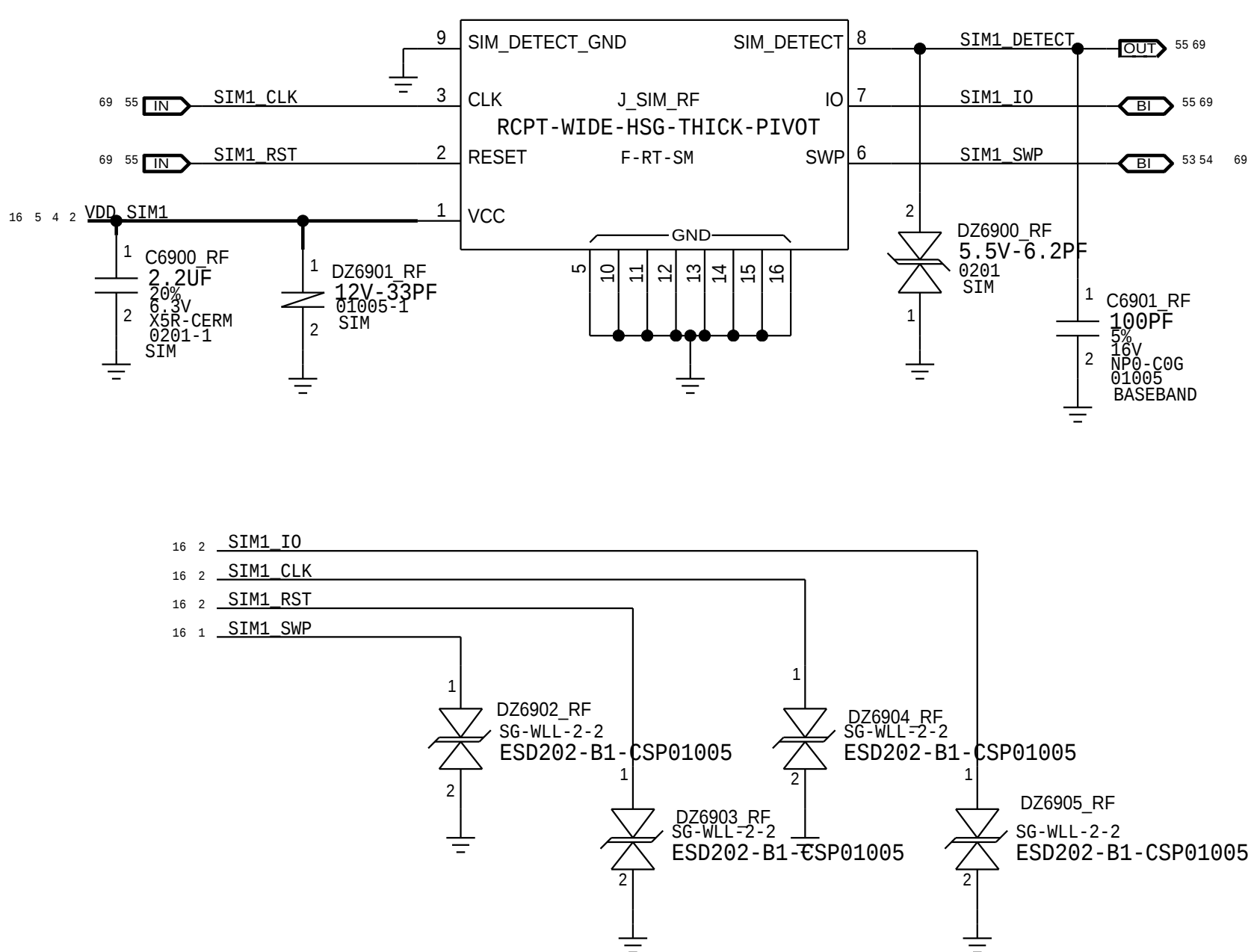
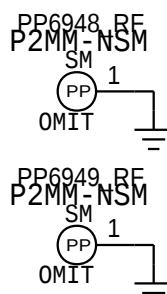
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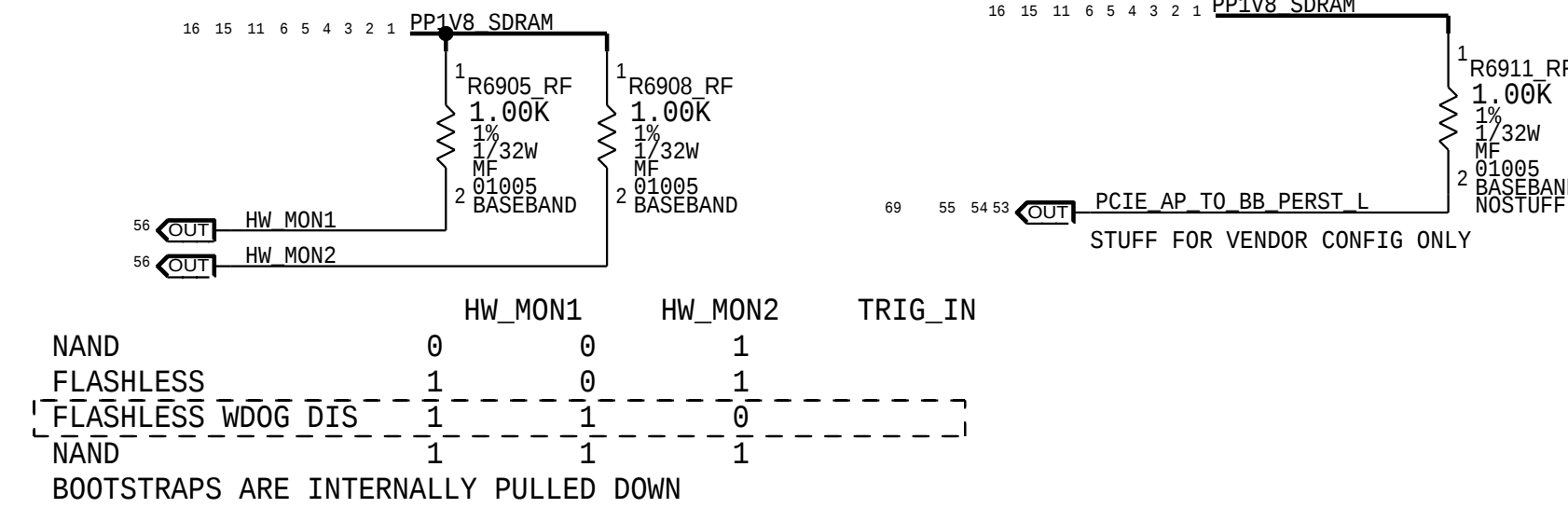
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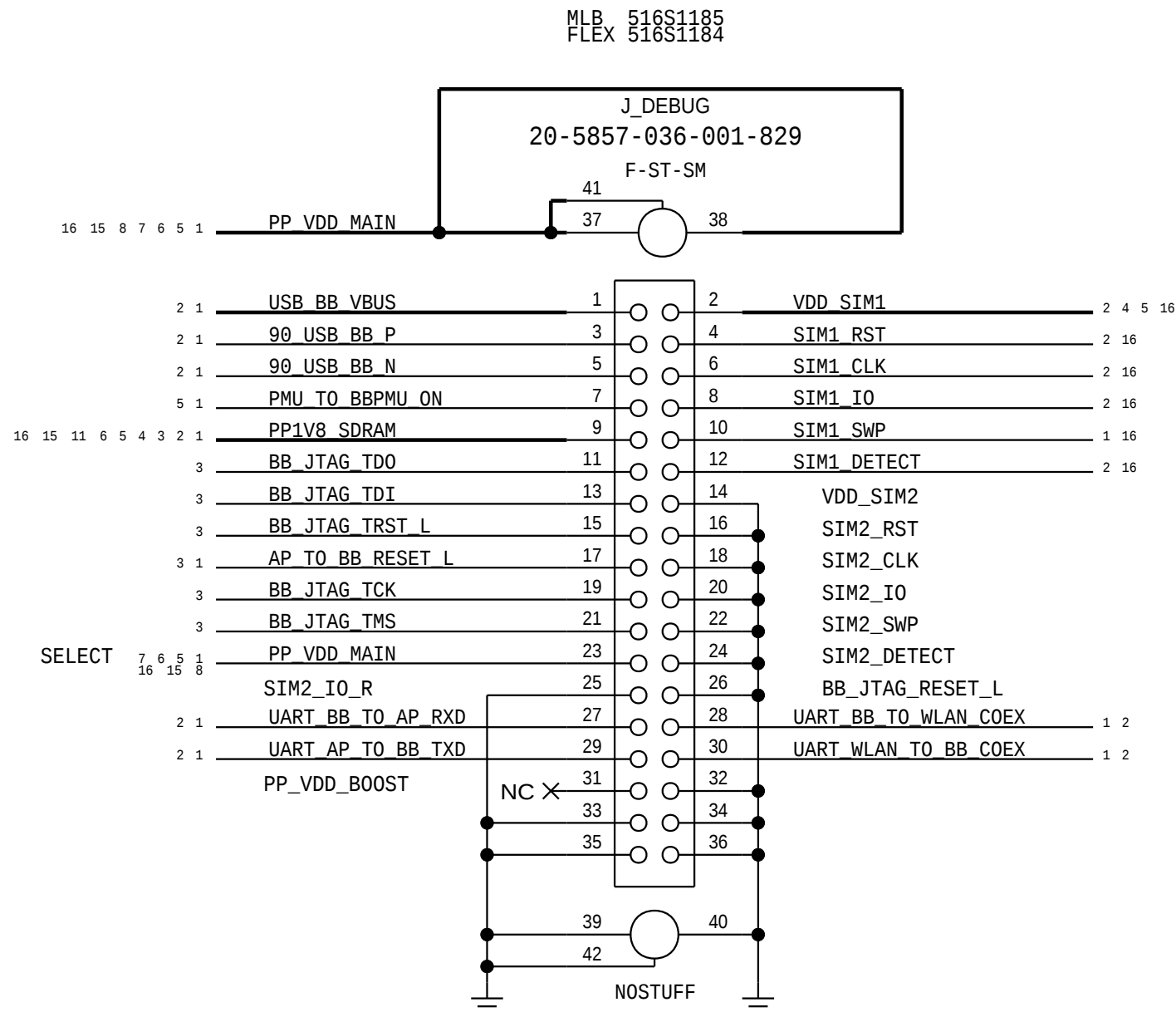
PCIE GND



BOOTCFG



DEBUG CONNECTOR



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TEST POINTS & SIM		
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	SHEET	69 OF 81

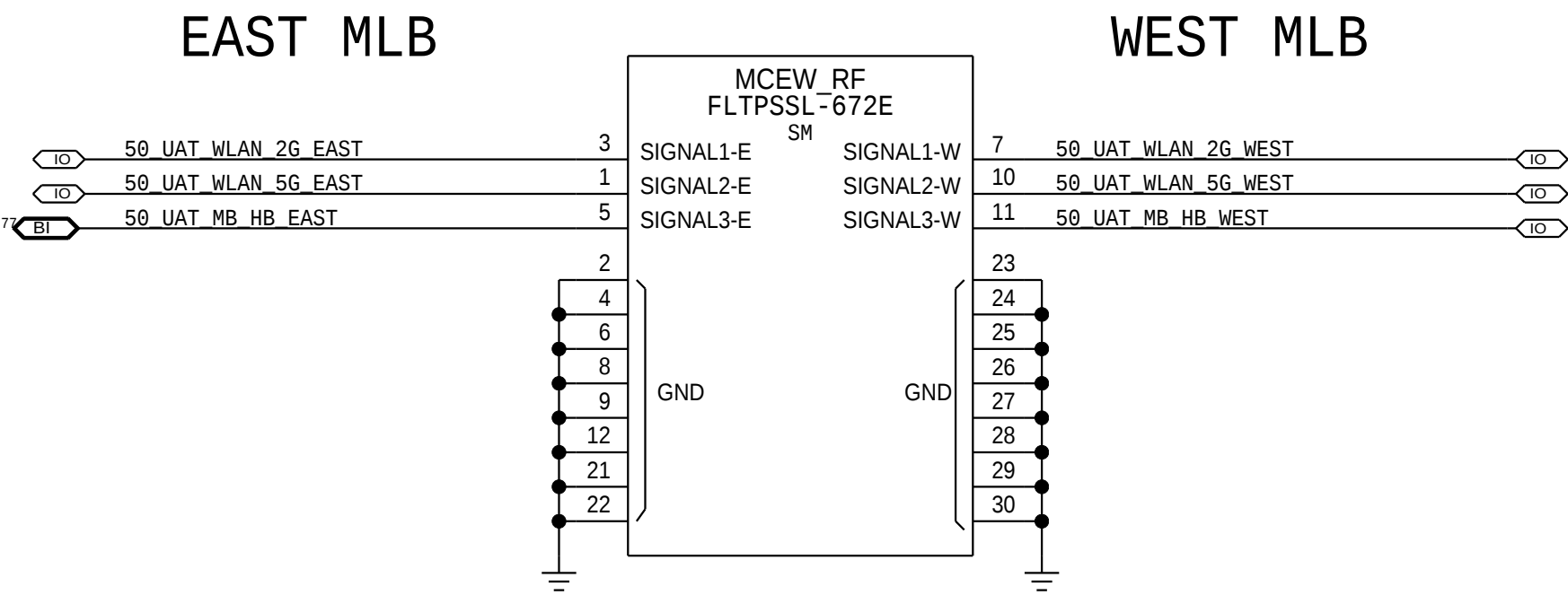
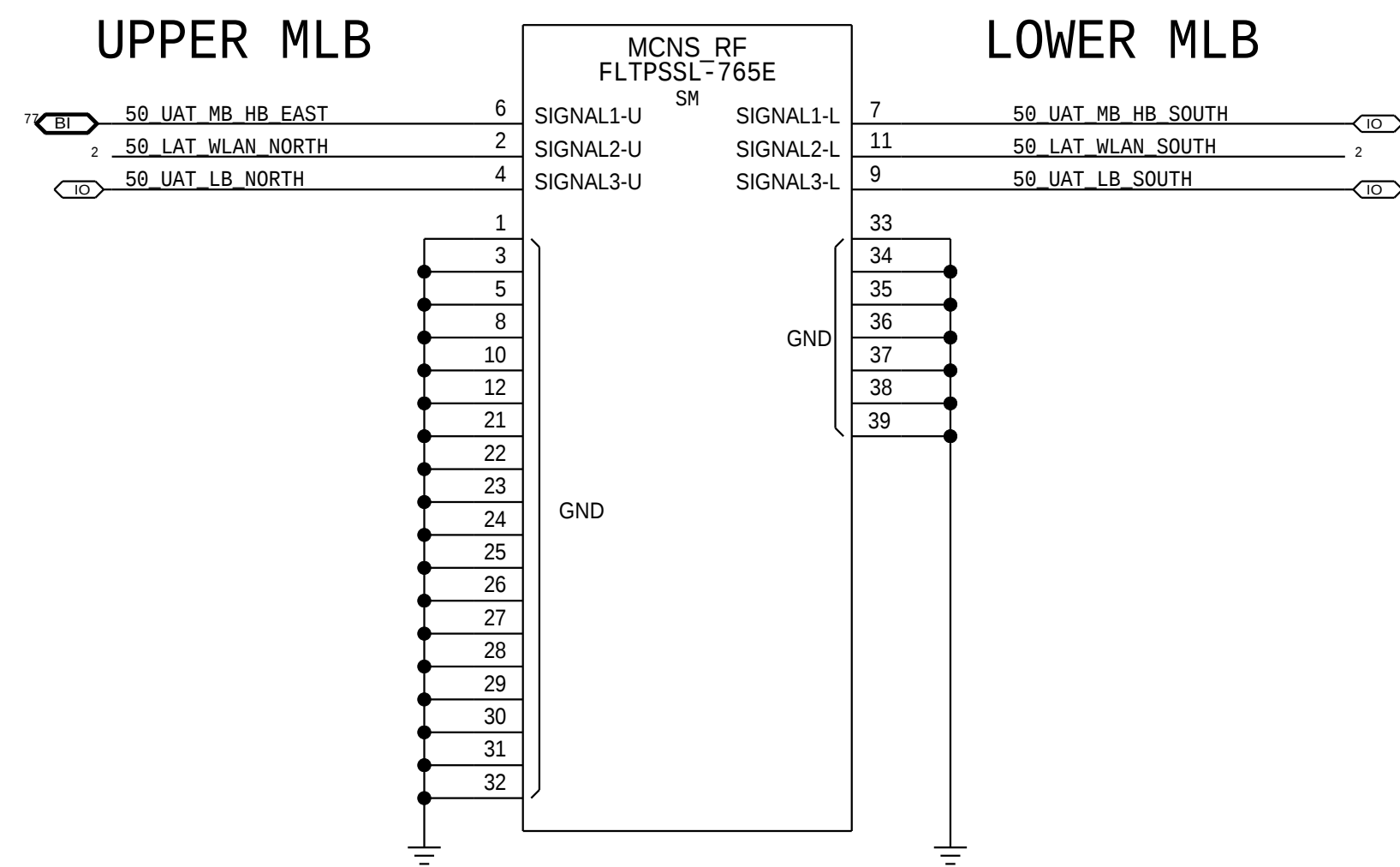
8		7		6		5		4		3		2		1							
1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. D111 RADIO_MLB_FF Mon May 16 17:43:10 2016 <table><tr><td>PDF PAGE</td><td>CONTENTS</td></tr><tr><td>2</td><td>METROCIRC</td></tr></table> SCH: 951-02180 BOM: 939-01837 PCB: 920-XXXXX CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST												PDF PAGE	CONTENTS	2	METROCIRC	REV	ECN	DESCRIPTION OF REVISION		CK APPD DATE	
												PDF PAGE	CONTENTS								
												2	METROCIRC								
5	0006232160	ENGINEERING RELEASED		2016-05-16																	

DRAWING TITLE SCH, MLB, D111												DRAWING NUMBER 051-00542		SIZE D
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										BRANCH				
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METROCIRC

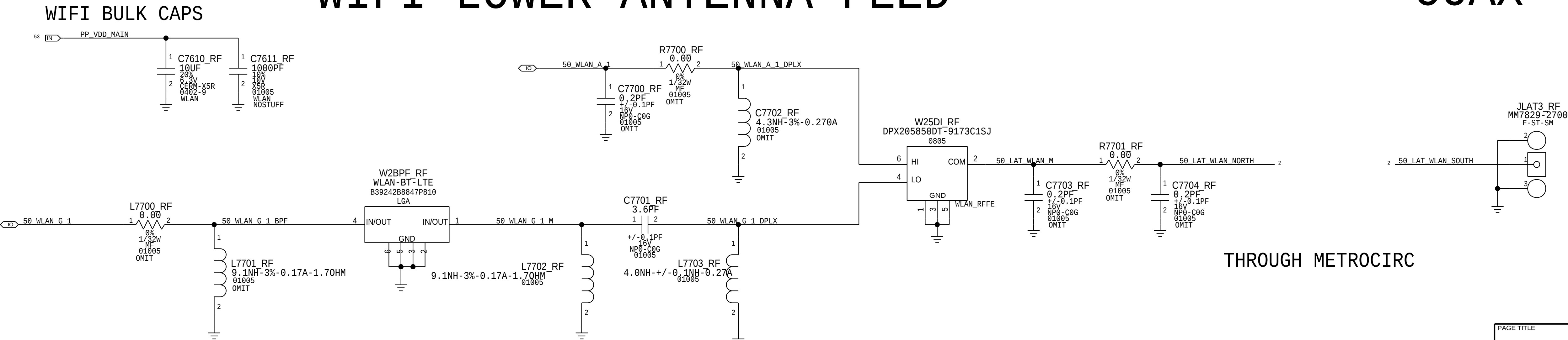
D111 NORTH-SOUTH METROCIRC
339S00147

D111 EAST-WEST METROCIRC
339S00146



WIFI LOWER ANTENNA FEED

COAX



THROUGH METROCIRC

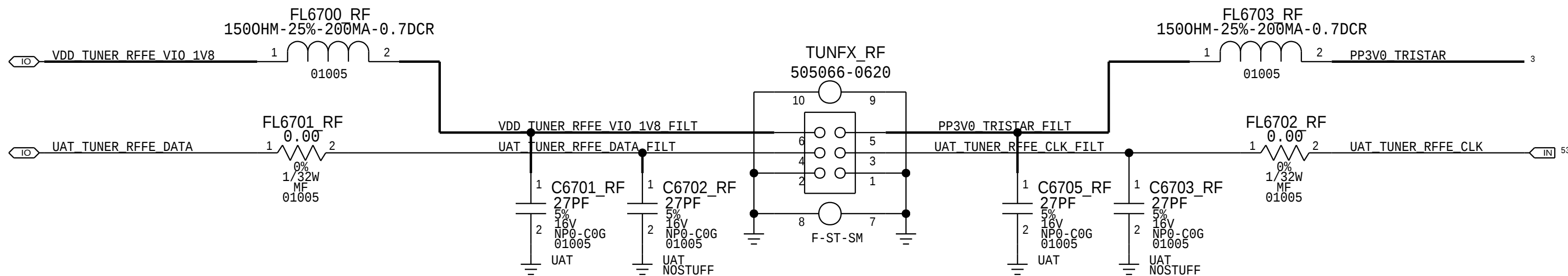
ICE16.1/2 EVT2

MATCHING CONTROLLED BY WIFI_MLB

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
118S0608	2	RES, RF, 1X 00M, 1%, 1/32W, 01005	R6901_RF, R6906_RF	

METROCIRC			
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UAT TUNER FLEX

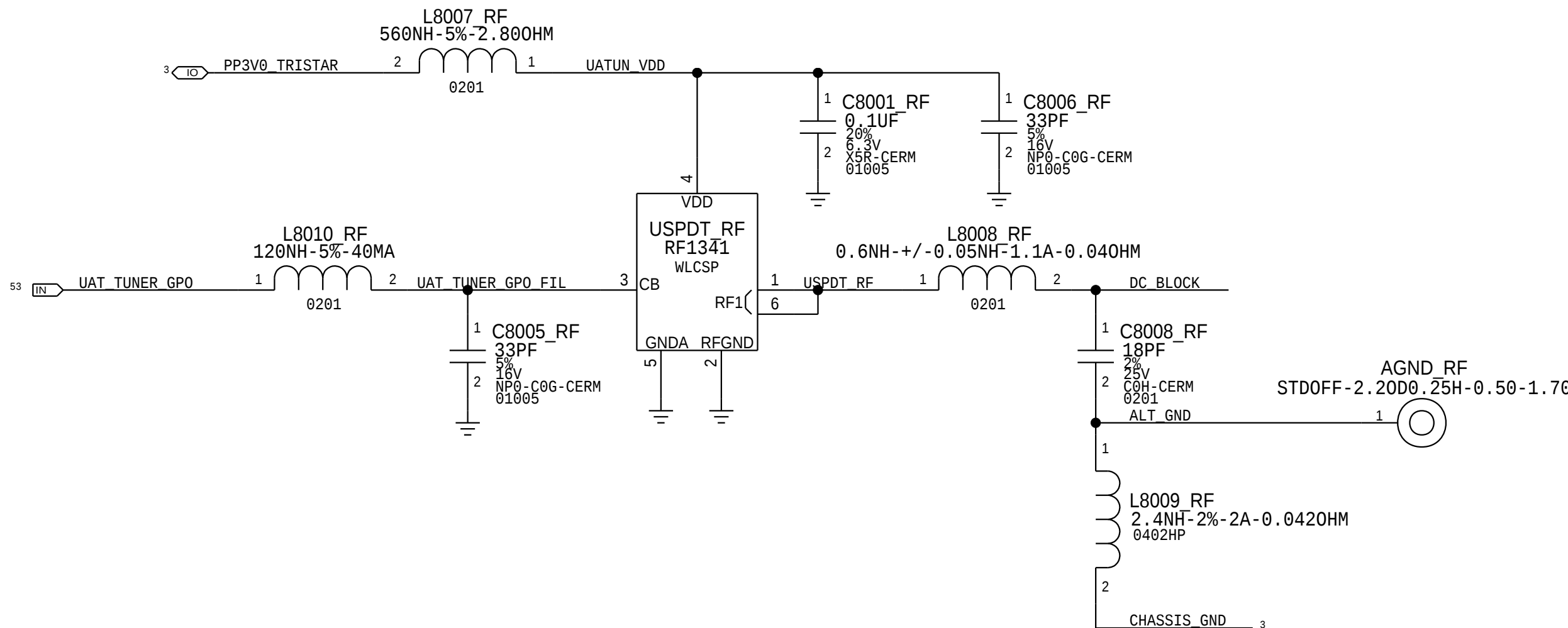


PINOUT IS ROTATED 180 COMPARED TO D101

ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S00482	152S00490	ALTERNATE	L8007_RF	MURATA LQM93CAR56J00

ALT UAT1 GND

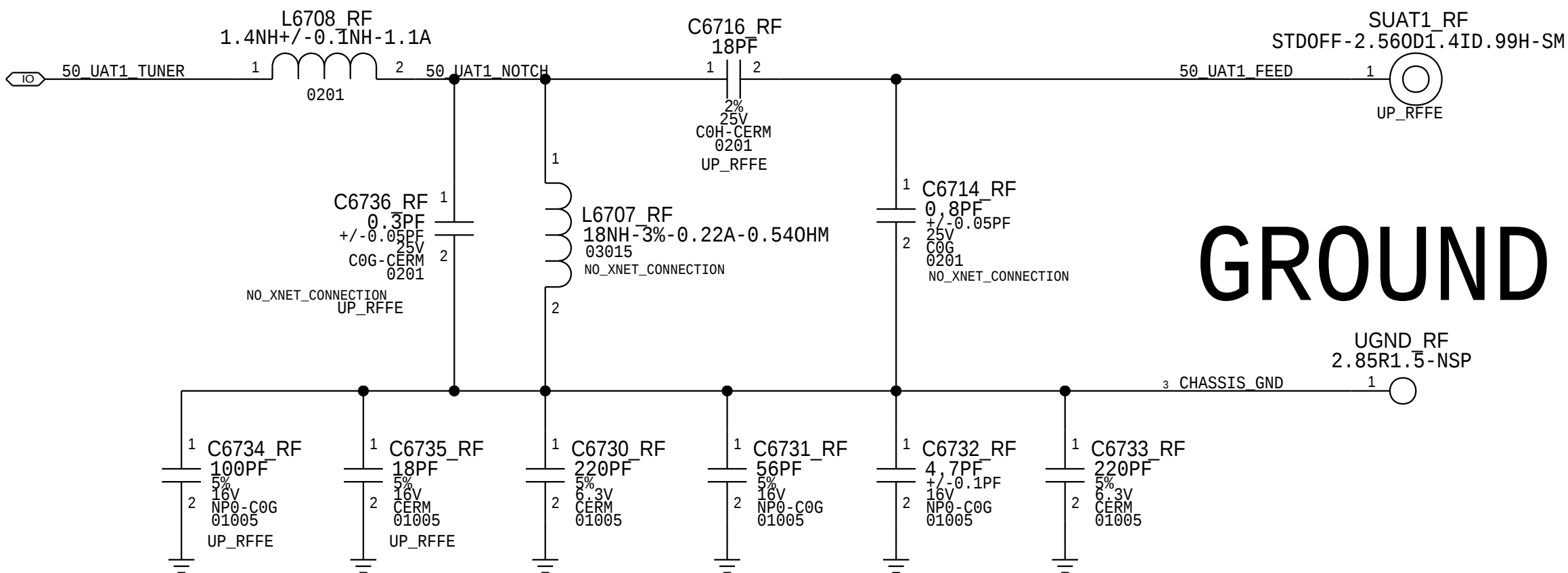


UAT TUNER

REMOVED

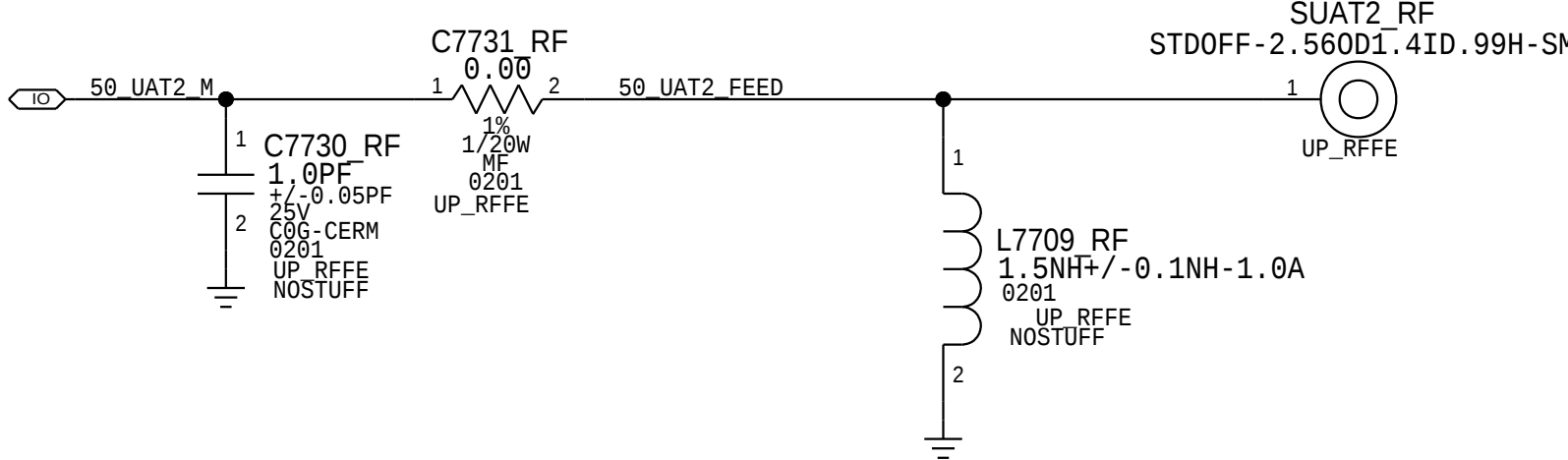
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LB/MLB/GNSS/MB/HB
STANDOFF



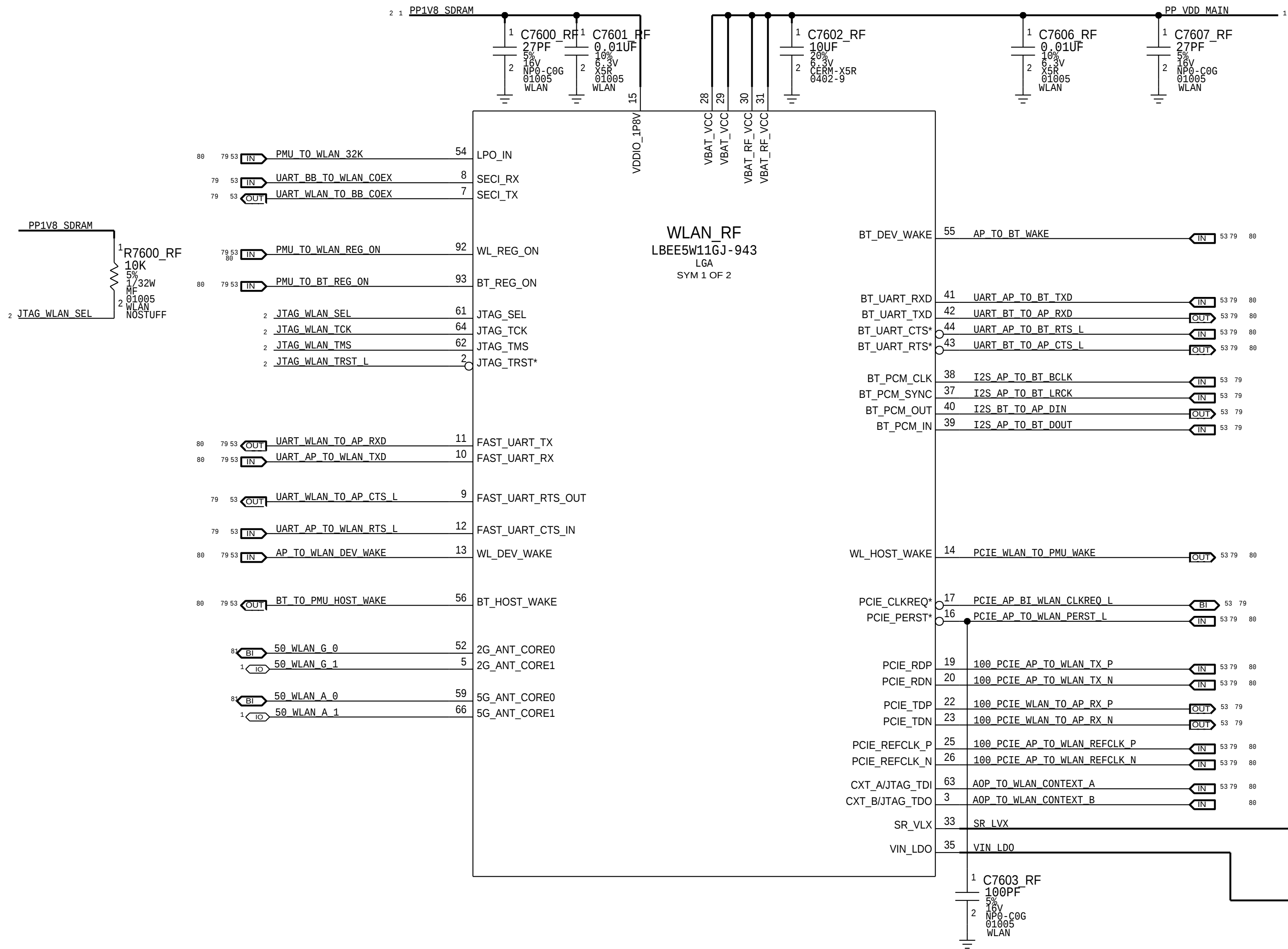
GROUND RING

5G WIFI
STANDOFF



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UAT MATCH & TUNER			
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WIFI/BT



WIFI UPPER ANTENNA FEEDS

