

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

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# N71 MLB - PVT OK2FAB


LAST\_MODIFICATION= Tue Jul 21 11:39:02 2015

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TABLE

- SCH 051-1902
- BRD 820-5507
- MCO 056-01060
- BOM 639-00263 (BETTER, DB30)
- BOM 639-00265 (ULTRA, DB30)
- BOM 639-00266 (SUPREME, DB30)
- BOM 639-01056 (BETTER, B30)
- BOM 639-01057 (ULTRA, B30)
- BOM 639-01058 (SUPREME, B30)
- BOM 639-01098 (BETTER, DB30C)
- BOM 639-01100 (ULTRA, DB30C)
- BOM 639-01099 (SUPREME, DB30C)
- BOM 939-01627 (BETTER, DARWIN)

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DRAWING TITLE		DRAWING NUMBER	SIZE
SCHEM, SINGLE, BRD, N71		051-1902	D
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		BRANCH	
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### SCHEMATIC & PCB BOM CALLOUTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-1902	1	SCH_SINGLE_BRD_N71	SCH	CRITICAL	?
820-5507	1	PCBF_SINGLE_BRD_N71	PCB	CRITICAL	?
825-6838	1	EEEE CODE FOR 639-00263	EEEE_G2KM	CRITICAL	EEEE_16G_DB30
825-6838	1	EEEE CODE FOR 639-00265	EEEE_G2KN	CRITICAL	EEEE_64G_DB30
825-6838	1	EEEE CODE FOR 639-00266	EEEE_G2KL	CRITICAL	EEEE_128G_DB30
825-6838	1	EEEE CODE FOR 639-01056	EEEE_GKF9	CRITICAL	EEEE_16G_B30
825-6838	1	EEEE CODE FOR 639-01057	EEEE_GKFC	CRITICAL	EEEE_64G_B30
825-6838	1	EEEE CODE FOR 639-01058	EEEE_GKFB	CRITICAL	EEEE_128G_B30
825-6838	1	EEEE CODE FOR 639-01098	EEEE_GLHL	CRITICAL	EEEE_16G_DB30C
825-6838	1	EEEE CODE FOR 639-01100	EEEE_GLHR	CRITICAL	EEEE_64G_DB30C
825-6838	1	EEEE CODE FOR 639-01099	EEEE_GLHM	CRITICAL	EEEE_128G_DB30C
825-6838	1	EEEE CODE FOR 939-01627	EEEE_GRO9	CRITICAL	EEEE_16G_DARWIN

### S3E NAND BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00039	1	NAND_1YNM_16GBX_838_64G_T_SLGA70	U1500	CRITICAL	NAND_16G
335S00075	1	NAND_1YNM_64GBX_838_64G_H_SLGA70	U1500	CRITICAL	NAND_64G
335S00079	1	NAND_1YNM_128GBX_838_TLC_128G_H_SLGA70	U1500	CRITICAL	NAND_128G

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00074	335S00039	NAND_16G	U1500	HYNIX 16G SLGA70 C DIE
335S00078	335S00075	NAND_64G	U1500	HYNIX 64G SLGA70
335S00064	335S00075	NAND_64G	U1500	SANDISK 64G SLGA70 LZ
335S00065	335S00079	NAND_128G	U1500	SANDISK 128G SLGA70

### CARBON/ACCEL BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
338S1163	1	IC_ACCEL_3-AXIS_DIG_BMA282_LGA14	U3030	NOSTUFF
117S0202	1	RES_MF_20 OHM_5%_1/32W_01005	R3030	NOSTUFF
117S0202	1	RES_MF_20 OHM_5%_1/32W_01005	R3031	NOSTUFF
117S0202	1	RES_MF_20 OHM_5%_1/32W_01005	R3032	NOSTUFF
138S0831	1	CAP_CER_XSR_2.2UF_20%_6.3V_0201	C3031	NOSTUFF
132S0316	1	CAP_CER_XSR_0.1UF_20%_6.3V_01005	C3032	NOSTUFF
338S00017	1	IC_CARBON_MPU_6700-12_LGA16	U3010	INVENSENSE_CARBON
338S1163	1	IC_ACCEL_3-AXIS_DIG_BMA282_LGA14	U3030	INVENSENSE_CARBON
117S0202	1	RES_MF_20 OHM_5%_1/32W_01005	R3030	INVENSENSE_CARBON
117S0202	1	RES_MF_20 OHM_5%_1/32W_01005	R3031	INVENSENSE_CARBON
117S0202	1	RES_MF_20 OHM_5%_1/32W_01005	R3032	INVENSENSE_CARBON
138S0831	1	CAP_CER_XSR_2.2UF_20%_6.3V_0201	C3031	INVENSENSE_CARBON
132S0316	1	CAP_CER_XSR_0.1UF_20%_6.3V_01005	C3032	INVENSENSE_CARBON
338S00087	1	IC_CARBON_1.1_MPU_6800-00_LGA16	U3010	INVENSENSE_STANDALONE_CARBON

### ALTERNATE BOM OPTIONS

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00032	138S0831	ALTERNATE	C0610	TY, 2.2UF, 0201
138S00049	138S0831	ALTERNATE	C0610	KYOCERA, 2.2UF, 0201
155S0660	155S0513	ALTERNATE	FL3100	MURATA, FERR, 22-OHM
138S00005	138S00003	ALTERNATE	C2000	TY, 15UF, 0402
138S00048	138S00003	ALTERNATE	C2000	KYOCERA, 15UF, 0402
138S0702	138S0657	ALTERNATE	C2111	MURATA, 4.3UF, 0610
118S0764	118S0717	ALTERNATE	R2250	PANASONIC, 3.92K-OHM, 0201
138S00006	138S0835	ALTERNATE	C1106	TY, 4.3UF, 0402
152S2052	152S1929	ALTERNATE	L2060	CYNTEC, 1UH, 1608
155S0773	155S0453	ALTERNATE	FL3110	TY, FERR, 120-OHM, 01005
377S0168	377S0140	ALTERNATE	D23150	TDK, VARISTOR, 6.3V, 100PF, 01005
155S00067	155S0581	ALTERNATE	FL4200	TDK, FERR, 240-OHM, 0201
155S00012	155S00009	ALTERNATE	L3100	MURATA, CHOKER, 65-OHM, 0605
138S0706	138S0739	ALTERNATE	C3302_RF	MURATA, CAP, CER, 10PF, 20%_100V, 0603
138S0945	138S0739	ALTERNATE	C3302_RF	KYOCERA, CAP, CER, 10PF, 20%_100V, 0603
155S00095	155S00068	ALTERNATE	FL1280	FERR 80, 100 OHM, 20%_100V, 01005
138S0648	138S0652	ALTERNATE	C3650	TY, 4.7UF, 0402
132S0400	132S0436	ALTERNATE	C1280	CAP, CER, XSR, 0.22UF, 20%_6.3V, 01005
155S0960	155S0941	ALTERNATE	FL3151	FERR 80, 70 OHM, 20%_100V, 01005
138S00024	138S0986	ALTERNATE	C1107	CAP, CER, 3-TERM, 7.5UF, 20%_4V, 0402
335S00066	335S0946	ALTERNATE	U0900	IC, EEPROM, 16KBX, 1.8V, 12C, WL5E94
155S0653	155S0511	ALTERNATE	FL4600	FERR 80, 31 OHM, 20%_100V, 01005

NOT ALL REFERENCE DESIGNATORS LISTED.  
USED ~116 TIMES IN DESIGN.  
USED ~116 TIMES IN DESIGN.  
USED ~7 TIMES IN DESIGN.  
USED ~63 TIMES IN DESIGN.  
USED ~63 TIMES IN DESIGN.  
USED ~3 TIMES IN DESIGN.  
USED ~19 TIMES IN DESIGN.  
USED ~61 TIMES IN DESIGN.  
USED ~9 TIMES IN DESIGN.  
USED ~8 TIMES IN DESIGN.  
USED ~11 TIMES IN DESIGN.  
USED ~17 TIMES IN DESIGN.  
USED ~17 TIMES IN DESIGN.  
USED ~12 TIMES IN DESIGN.  
USED ~2 TIMES IN DESIGN.  
USED ~9 TIMES IN DESIGN.  
USED ~7 TIMES IN DESIGN.  
USED ~4 TIMES IN DESIGN.

### POWER INDUCTOR ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S00120	152S00077	ALTERNATE	L2070	TAIYO 2016 1.00H 0.65MM
152S00118	152S00075	ALTERNATE	L3700	TAIYO 2016 1.2UH

### ACTIVE DIODE ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376S00106	376S00047	ALTERNATE	Q2300	DIODES INC. ACT DIODE

### SHIELD PART NUMBERS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
806-02895	1	SHIELD,EMI_UPPER_FRONT,WTOP,N71	SH0500	COMMON
806-04588	1	SHIELD,EMI_LOWER_FRONT,CLOSED,N0M1,N71	SH0501	COMMON
806-03994	1	SHIELD,EMI_SA_OPEN,N71	SH0502	COMMON
806-02897	1	SHIELD,EMI_UPPER_BACK,WTOP,N71	SH0503	COMMON
806-02898	1	SHIELD,EMI_LOWER_BACK,WTOP,N71	SH0504	COMMON

### SOC/PMU SUB BOMS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
685-00069	1	SUBBOM_SINGLE_BRD_MAU1_N71	SUBBOM_SOC	COMMON
338S00120	1	IC_PMU_ARMADA_A0_D225A1_07F-AL_WGCEP380	U2000	MAUI
118S0631	1	RES_MF_100 OHM_1%_1/32W_01005	R0730	MAUI
131S0307	1	CAP_CER_NPO/COG_100PF_5%_16V_01005	C0730	MAUI
339S00112	1	PROD FUSED, H DRAM	U0600	MAUI
117S0161	1	RES_MF_0 OHM_1%_1/32W_01005	R0651	MAUI

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
338S00122	1	IC_PMU_ARMADA_D225A1_07F-AL_WGCEP380	U2000	MALTA
118S00009	1	RES_MF_3.0KOHM_1%_1/32W_01005	R0730	MALTA
131S0307	1	CAP_CER_NPO/COG_100PF_5%_16V_01005	C0730	NOSTUFF
339S00124	1	M DEV FUSED, M DRAM	U0600	MALTA
118S00025	1	RES_MF_330 OHM_1%_1/32W_01005	R0651	MALTA

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00070	685-00069	ALTERNATE	SUBBOM_SOC	SUBBOM_SINGLE_BRD_MAU1_N71

### SOC ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S00113	339S00112	MAUI	U0600	PROD FUSED, M DRAM
339S00114	339S00112	MAUI	U0600	PROD FUSED, S DRAM

339S00125	339S00124	MALTA	U0600	M PROD FUSED, H DRAM, ATK
339S00126	339S00124	MALTA	U0600	M PROD FUSED, S DRAM, ATK
339S00127	339S00124	MALTA	U0600	M PROD FUSED, M DRAM, SCK
339S00128	339S00124	MALTA	U0600	M PROD FUSED, H DRAM, SCK
339S00129	339S00124	MALTA	U0600	M PROD FUSED, S DRAM, SCK

### INDUCTOR SUB BOMS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
685-00081	1	SUBBOM_SINGLE_BRD_CYNTEC_N71	SUBBOM_IND	COMMON
152S00074	6	IND_PWR_SHLD_1.00H_3.6A_0.060 OHM_2016	L2000,L2002,L2010,L2011,L2020,L2030	CYNTEC
152S00074	5	IND_PWR_SHLD_1.00H_3.6A_0.060 OHM_2016	L2040,L2050,L2090,L3300,L4021	CYNTEC
152S00081	6	IND_PWR_SHLD_0.470H_3.8A_0.048 OHM_2012	L2001,L2003,L2011,L2013,L2021,L2041	CYNTEC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S00117	6	IND_PWR_SHLD_1.00H_3.6A_0.060 OHM_2016	L2000,L2002,L2010,L2011,L2020,L2030	TAIYO
152S00117	5	IND_PWR_SHLD_1.00H_3.6A_0.060 OHM_2016	L2040,L2050,L2090,L3300,L4021	TAIYO
152S00121	6	IND_PWR_SHLD_0.470H_3.8A_0.048 OHM_2012	L2001,L2003,L2011,L2013,L2021,L2041	TAIYO

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00080	685-00081	ALTERNATE	SUBBOM_IND	SUBBOM_SINGLE_BRD_TAIYO_N71

PAGE TITLE		SYSTEM:BOM TABLES	
		DRAWING NUMBER	051-1902
		REVISION	A.0.0
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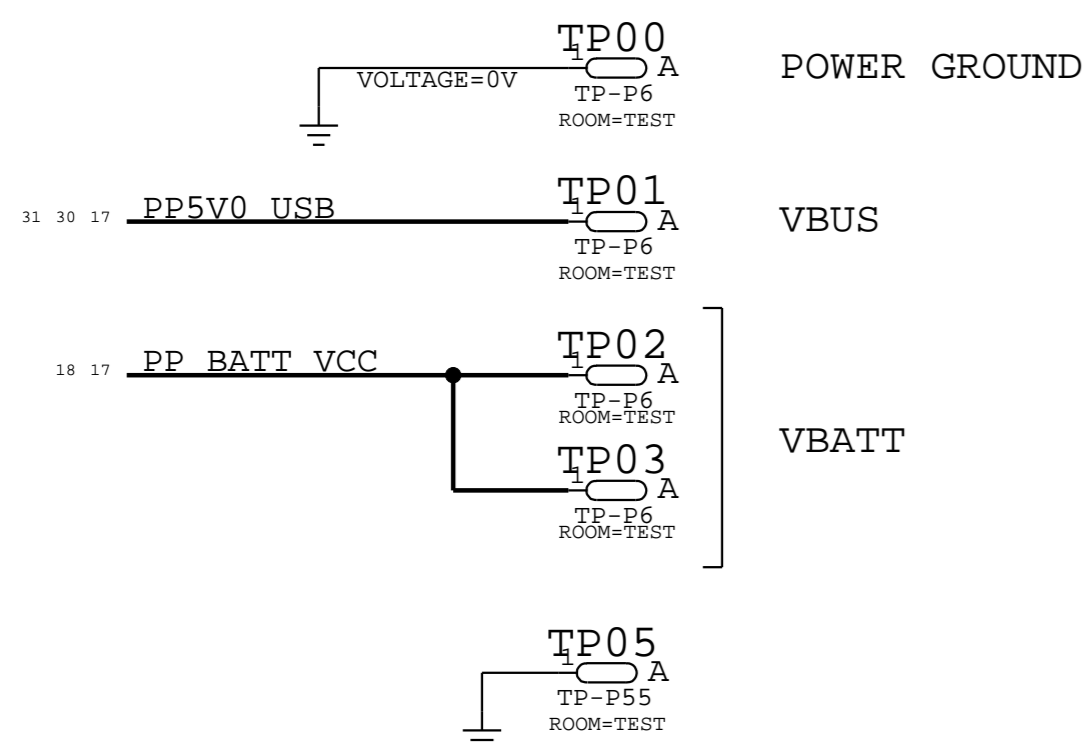
# TESTPOINTS

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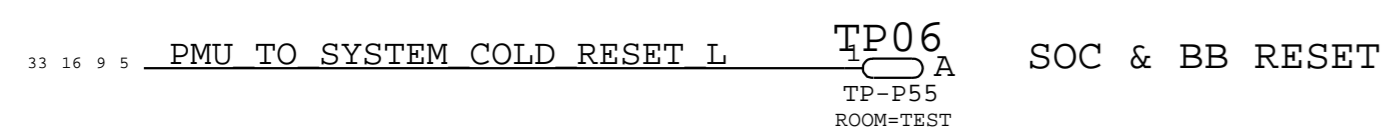
# N71 I2C DEVICE MAP

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	0XE9
	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

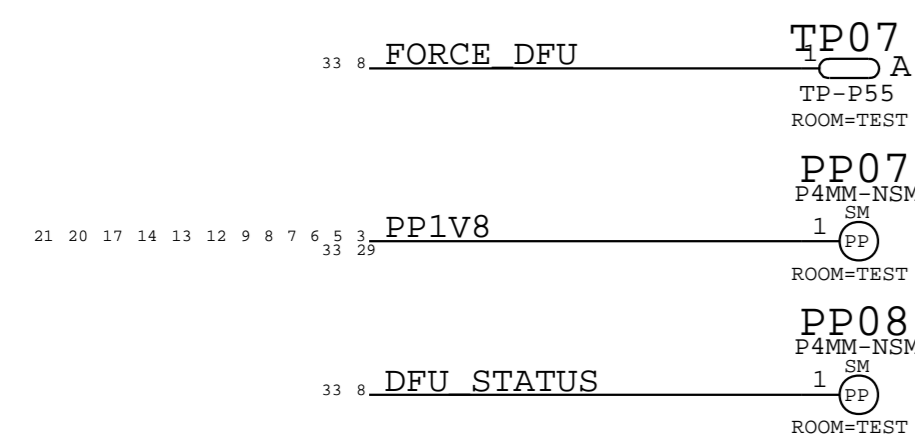
## POWER



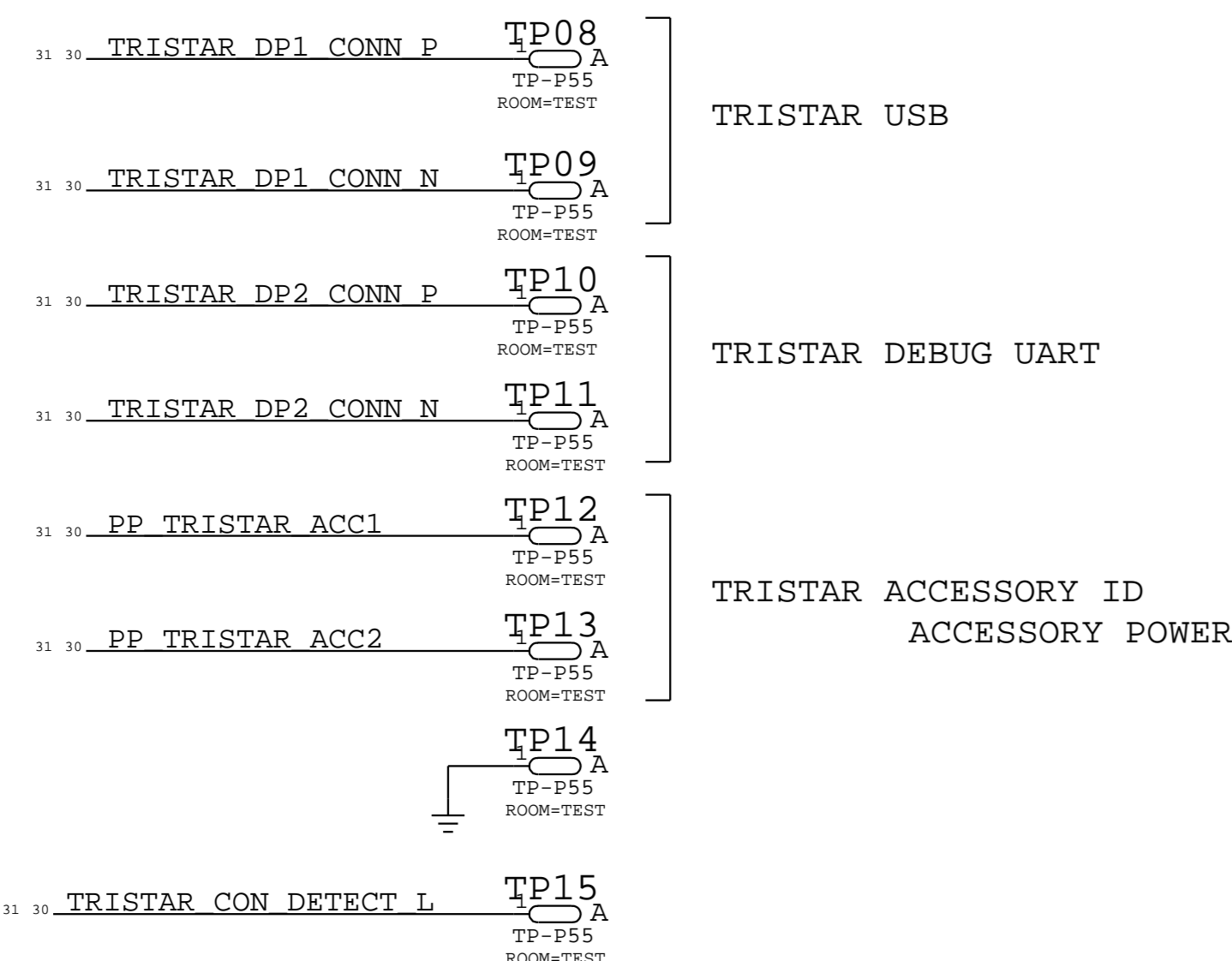
## RESET



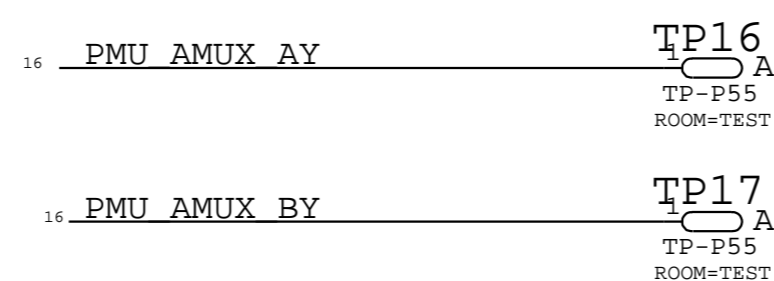
## DFU



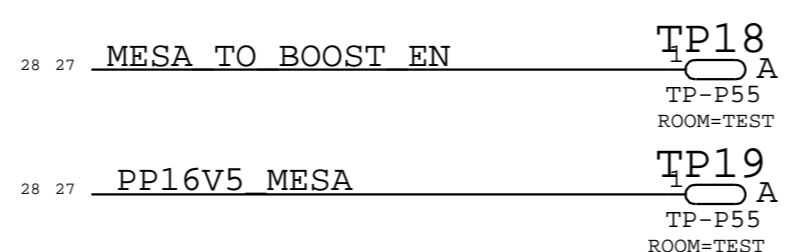
## E75



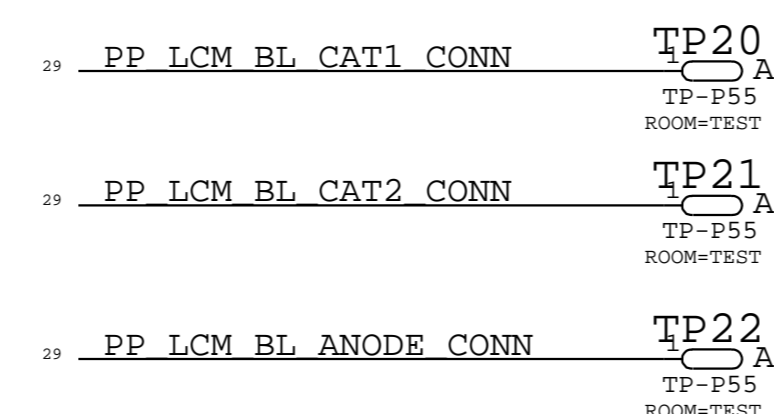
## AMUX



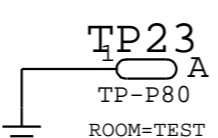
## MOJAVE



## LCM



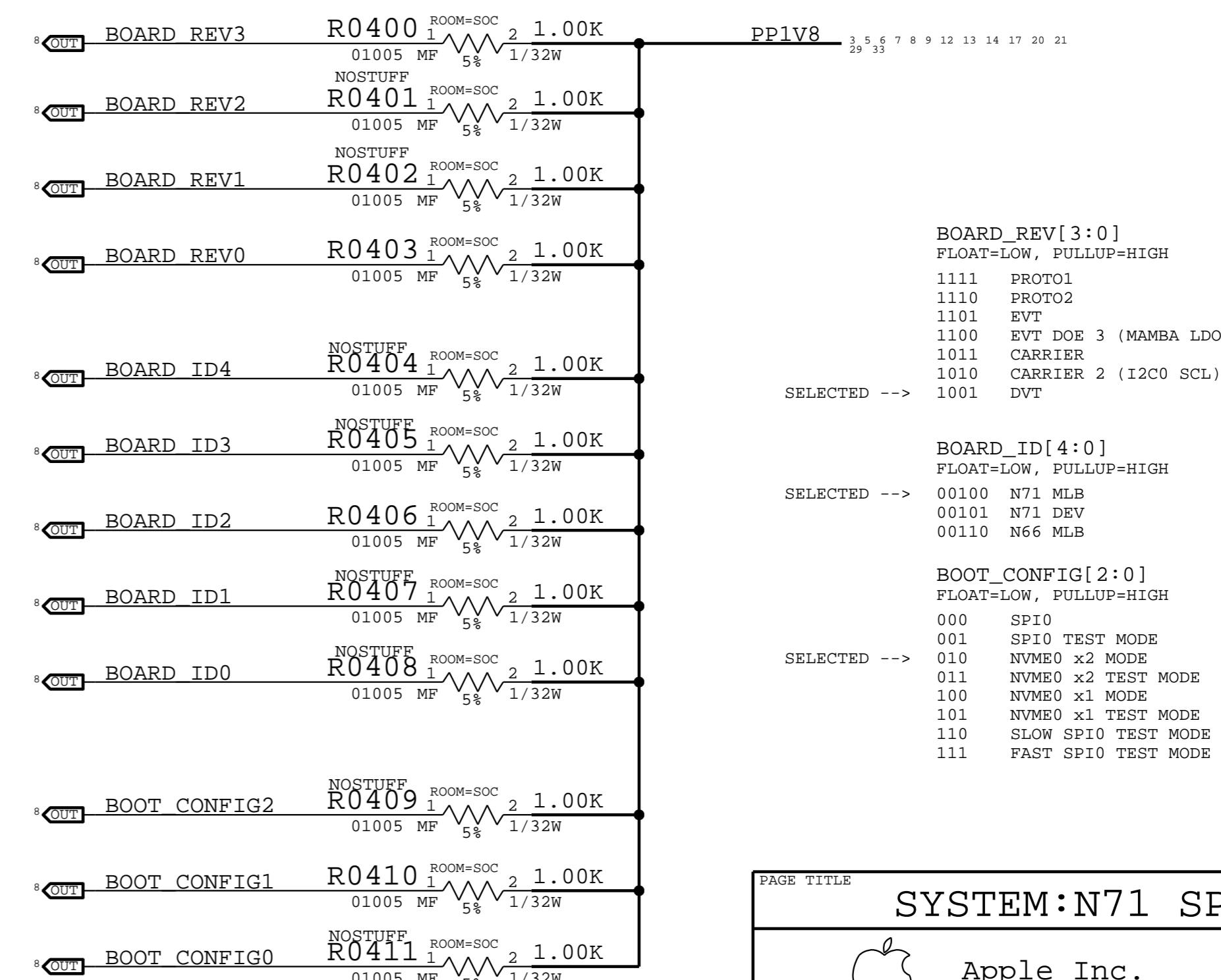
## SUPER SCREW



FORCE DFU PROCEDURE:

1. FROM OFF MODE SHORT TP07 TO PP07
2. PLUG IN E75 CABLE TO FORCE DFU

## BOOTSTRAPPING: BOARD REV BOARD ID BOOT CONFIG



BOARD\_REV[3:0]  
 FLOAT=LOW, PULLUP=HIGH  
 1111 PROTOL  
 1110 PROTO2  
 1101 EVT  
 1100 EVT DOE 3 (MAMBA LDO)  
 1011 CARRIER  
 1010 CARRIER 2 (I2C0 SCL)  
 1001 DVT

BOARD\_ID[4:0]  
 FLOAT=LOW, PULLUP=HIGH  
 00100 N71 MLB  
 00101 N71 DEV  
 00110 N66 MLB

BOOT\_CONFIG[2:0]  
 FLOAT=LOW, PULLUP=HIGH  
 000 SPI0  
 001 SPI0 TEST MODE  
 010 NVME0 x2 MODE  
 011 NVME0 x2 TEST MODE  
 100 NVME0 x1 MODE  
 101 NVME0 x1 TEST MODE  
 110 SLOW SPI0 TEST MODE  
 111 FAST SPI0 TEST MODE

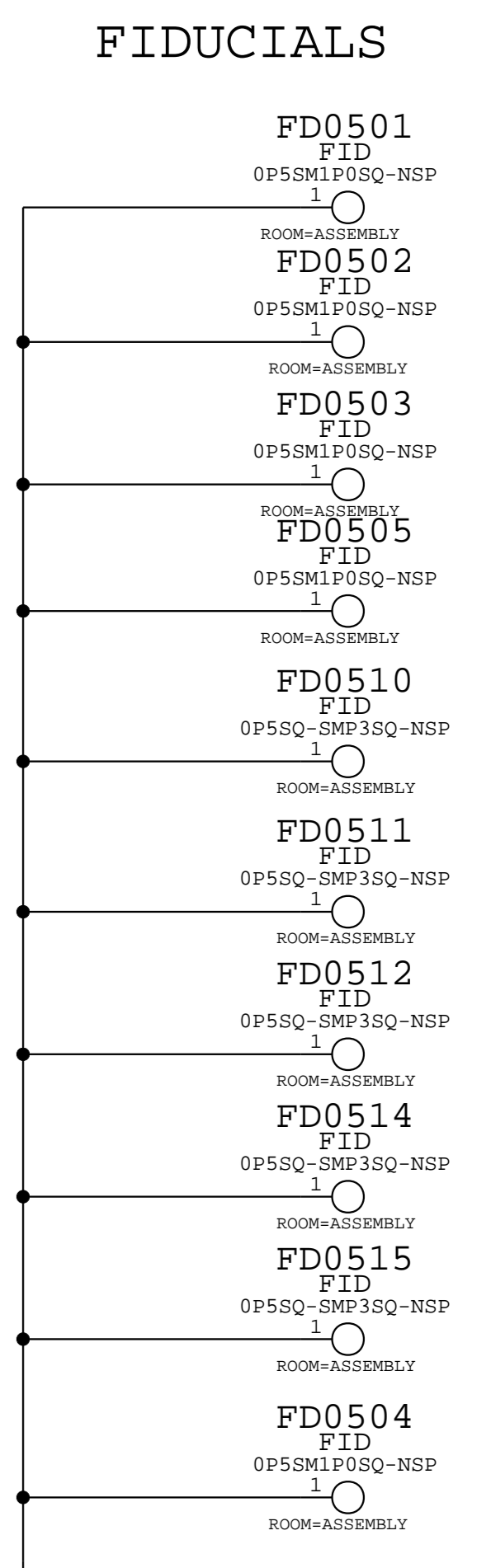
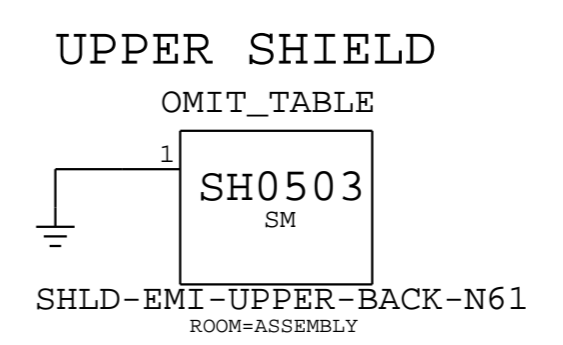
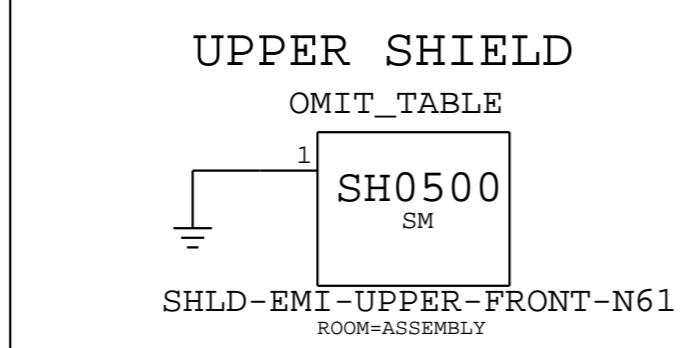
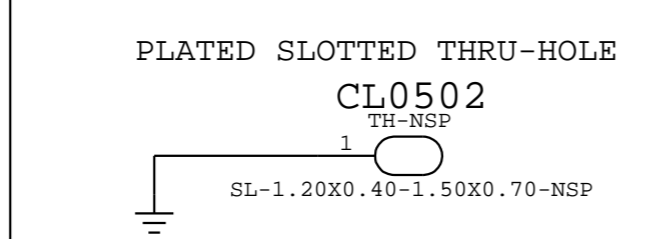
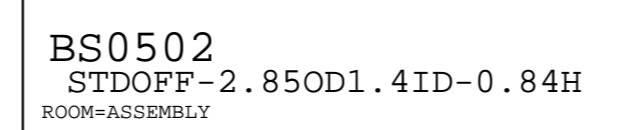
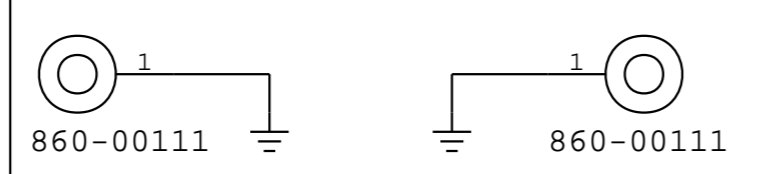
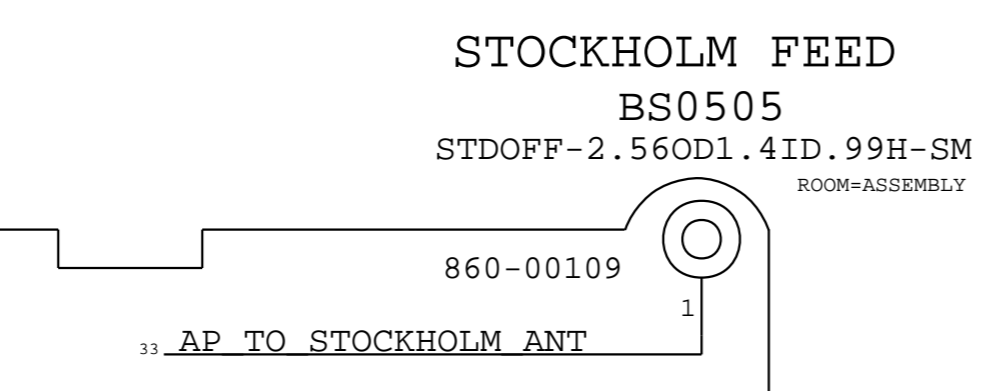
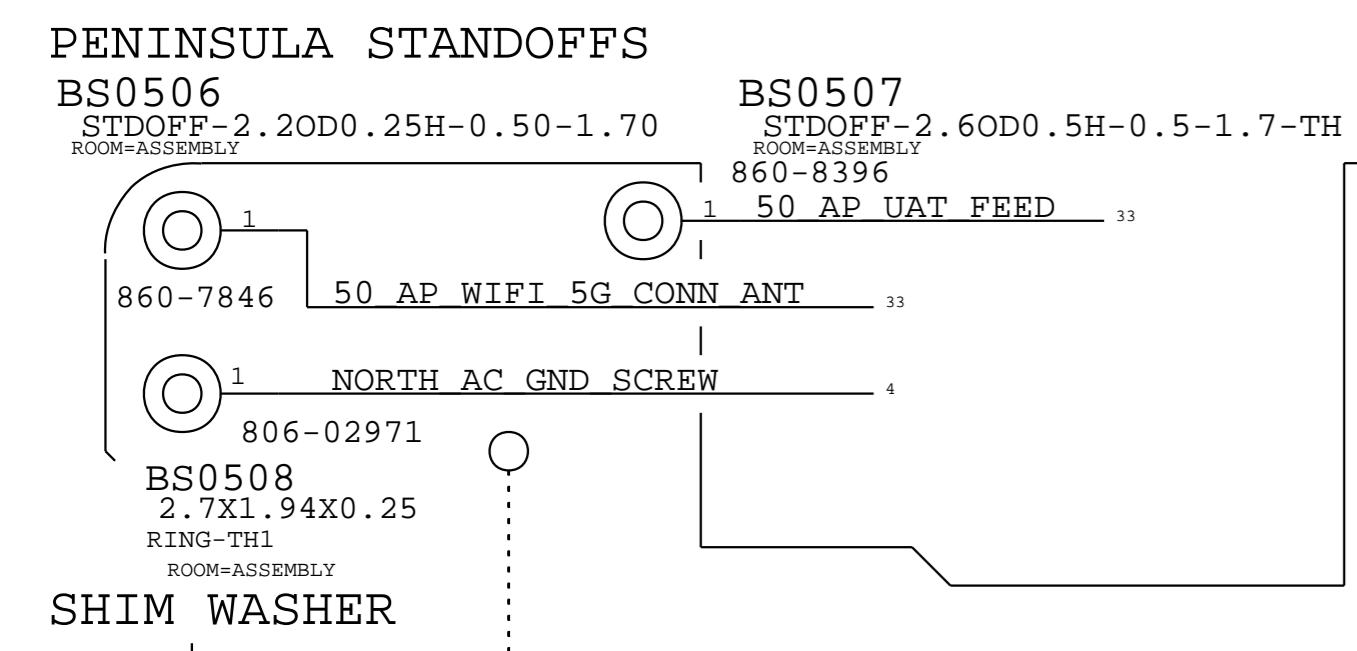
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PAGE TITLE		SYSTEM:N71 SPECIFIC	
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		PAGE	4 OF 49
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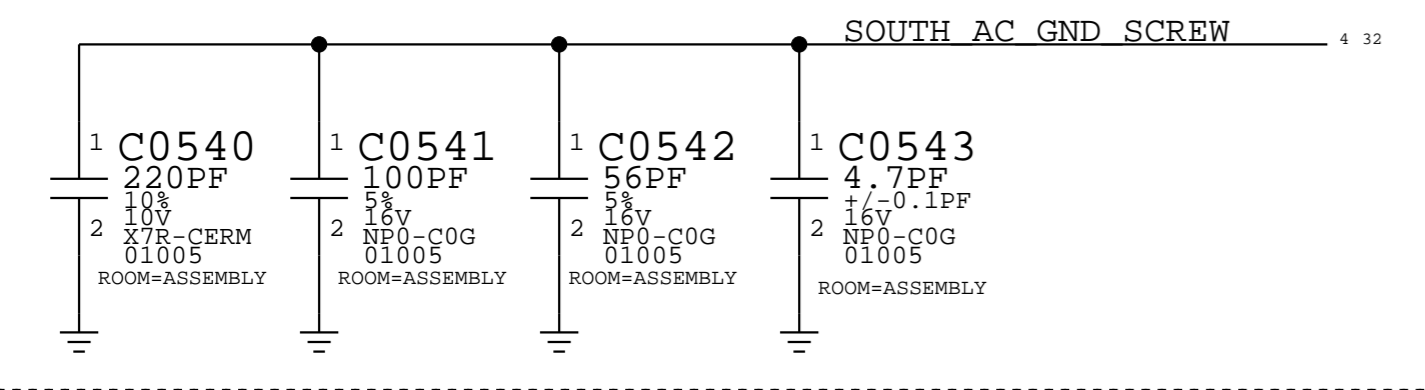
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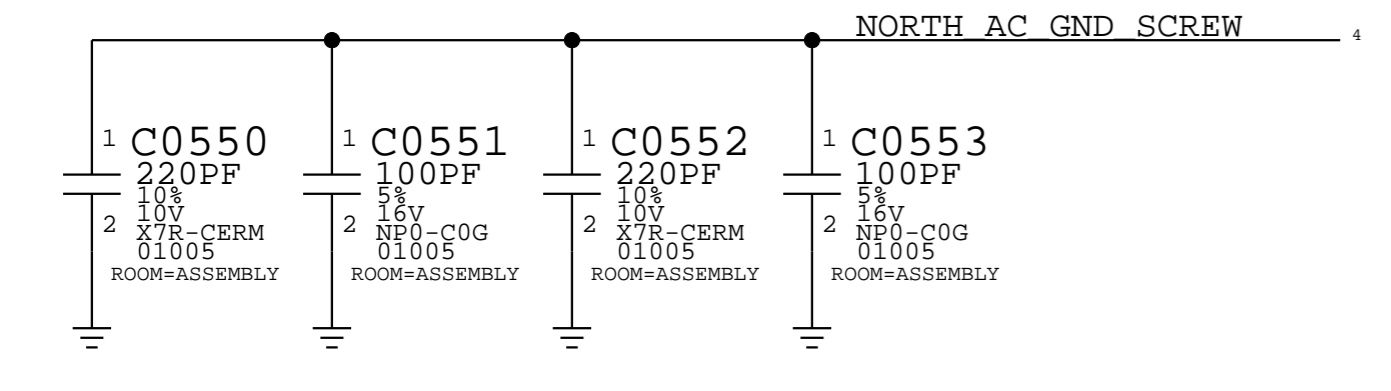
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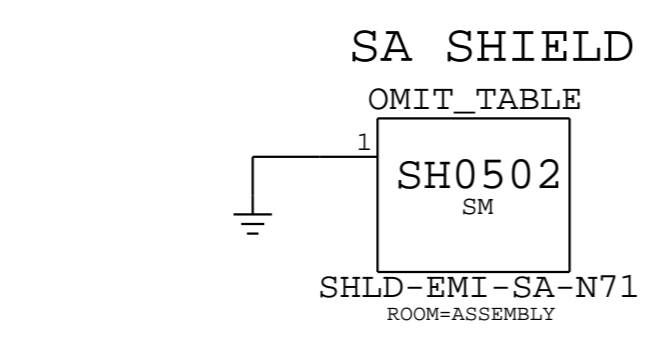
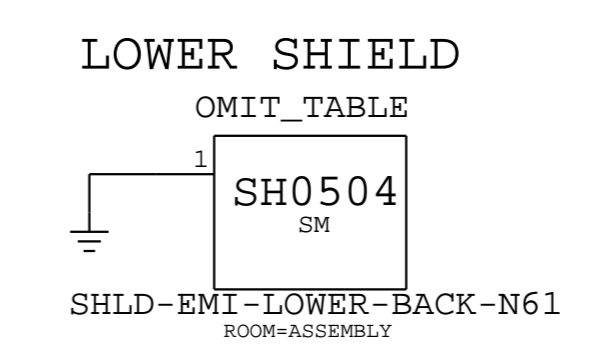
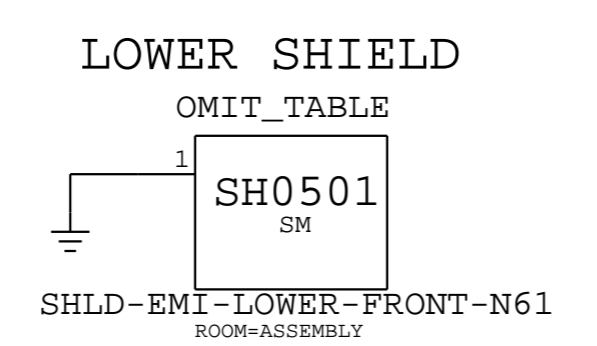
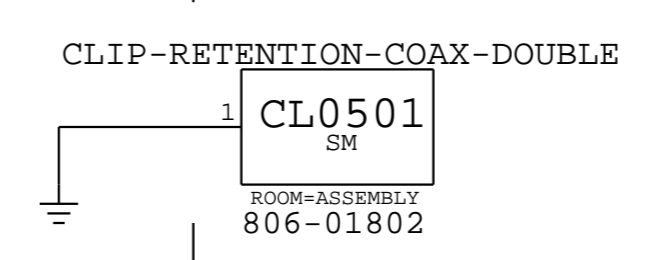
## SOUTH DC CURRENT BLOCKING CAPS



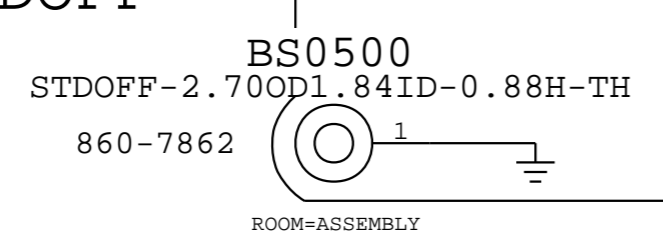
## NORTH DC CURRENT BLOCKING CAPS



## DUAL RF COAX CLIP



## SOUTH TUBE STANDOFF



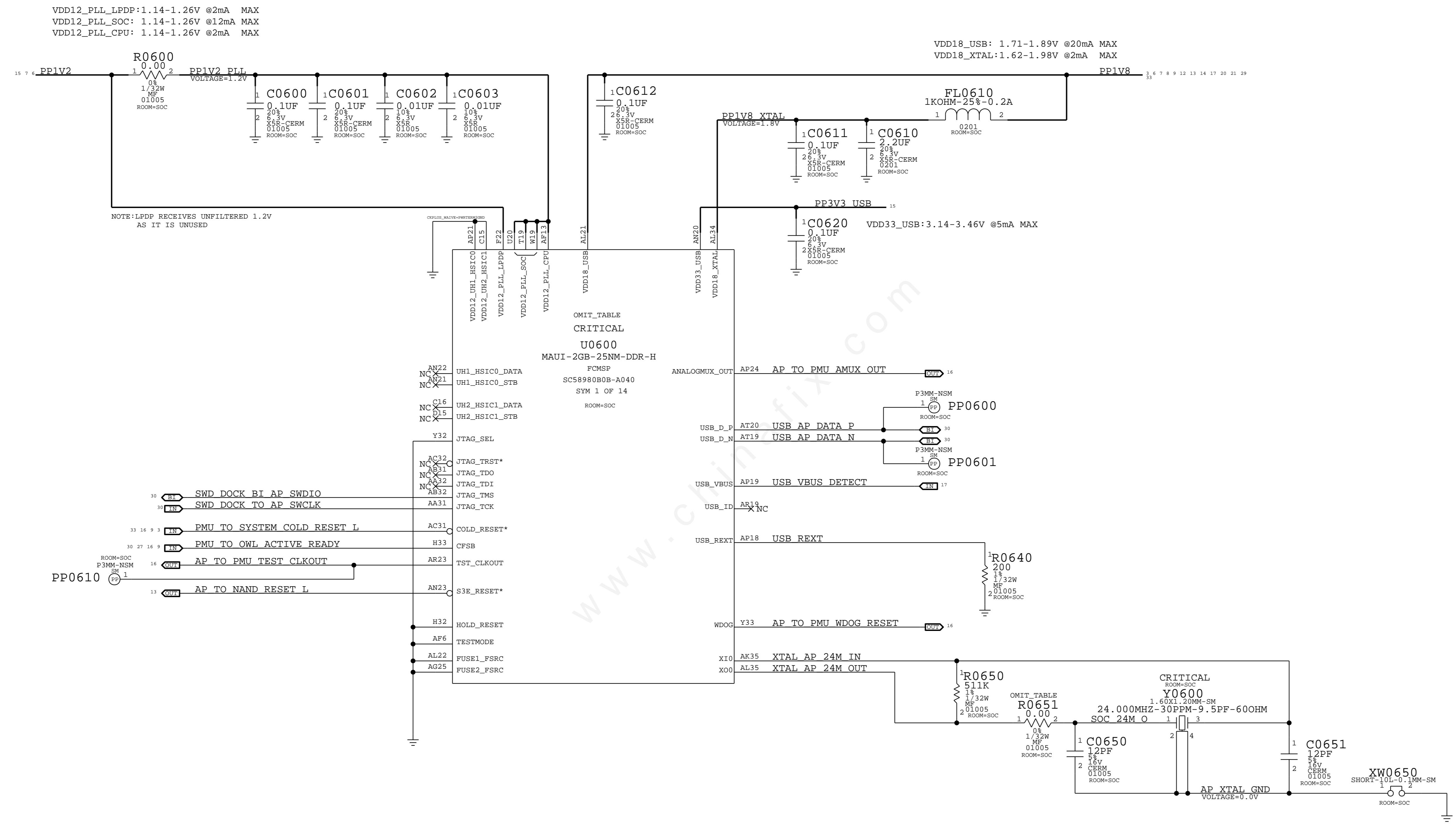
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# MAUI - USB, JTAG, XTAL

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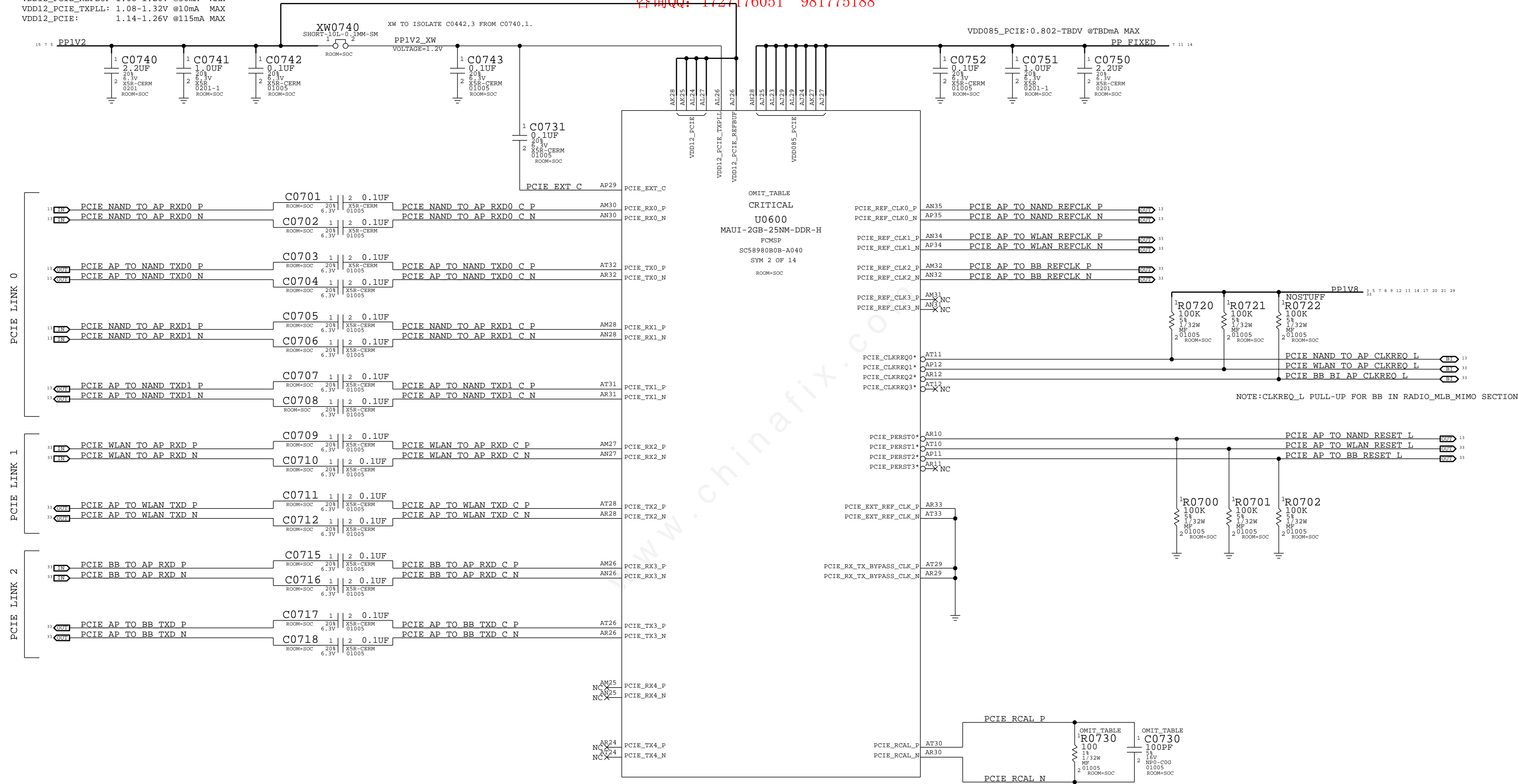
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# MAUI - PCIE INTERFACES

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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

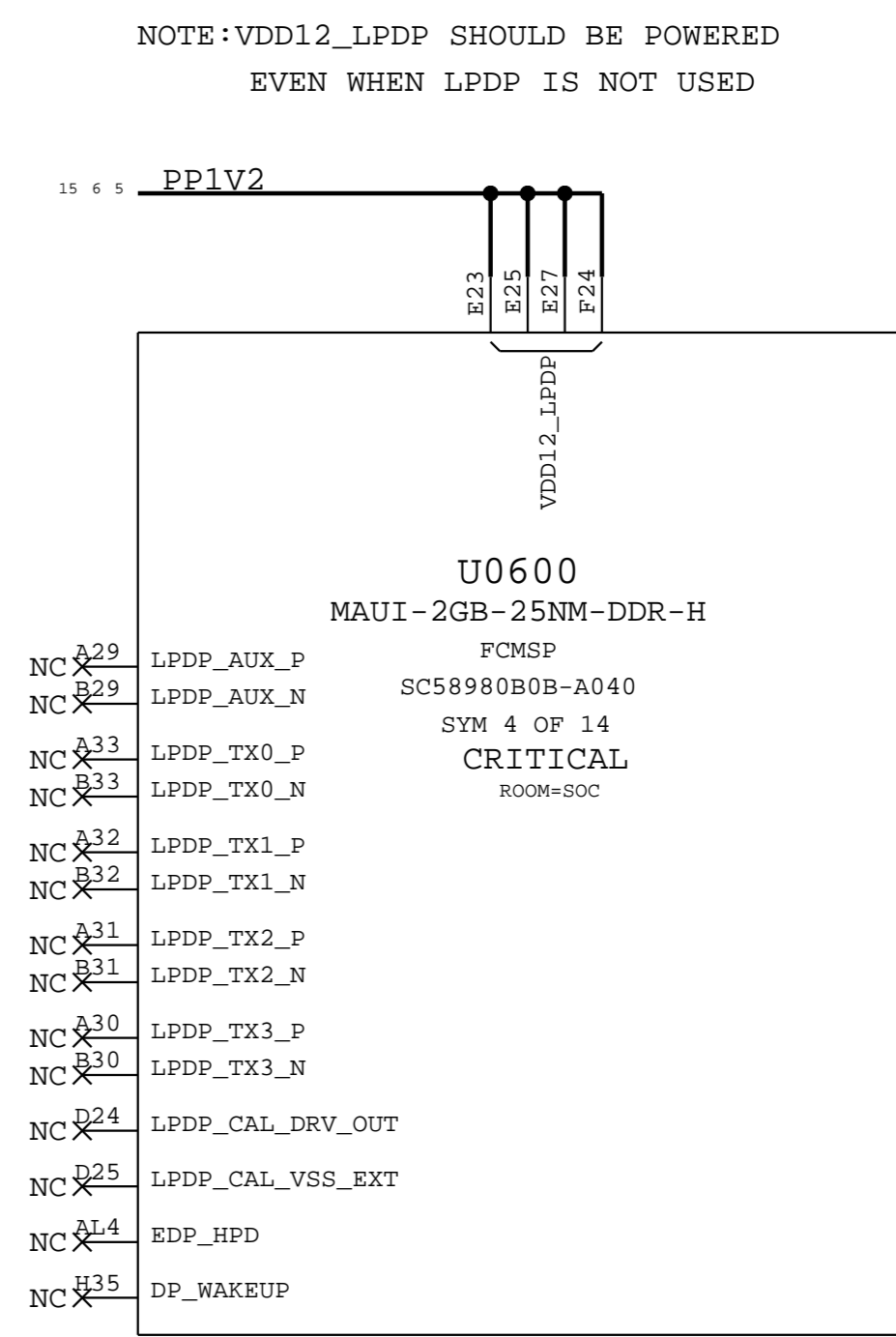
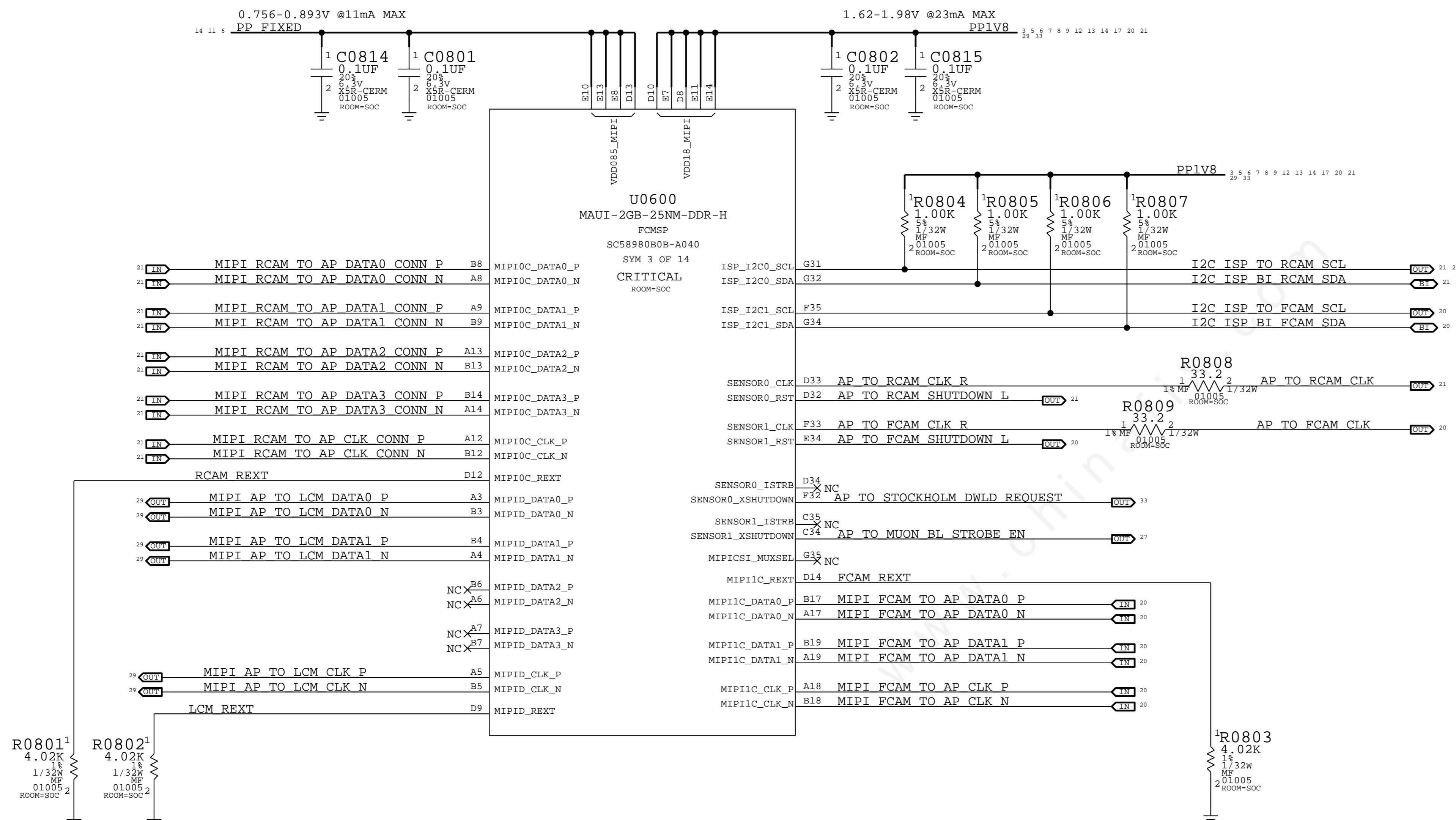


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# MAUI - CAMERA & DISPLAY INTERFACES

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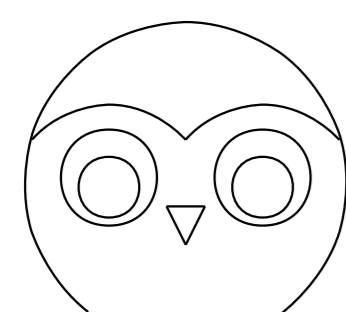
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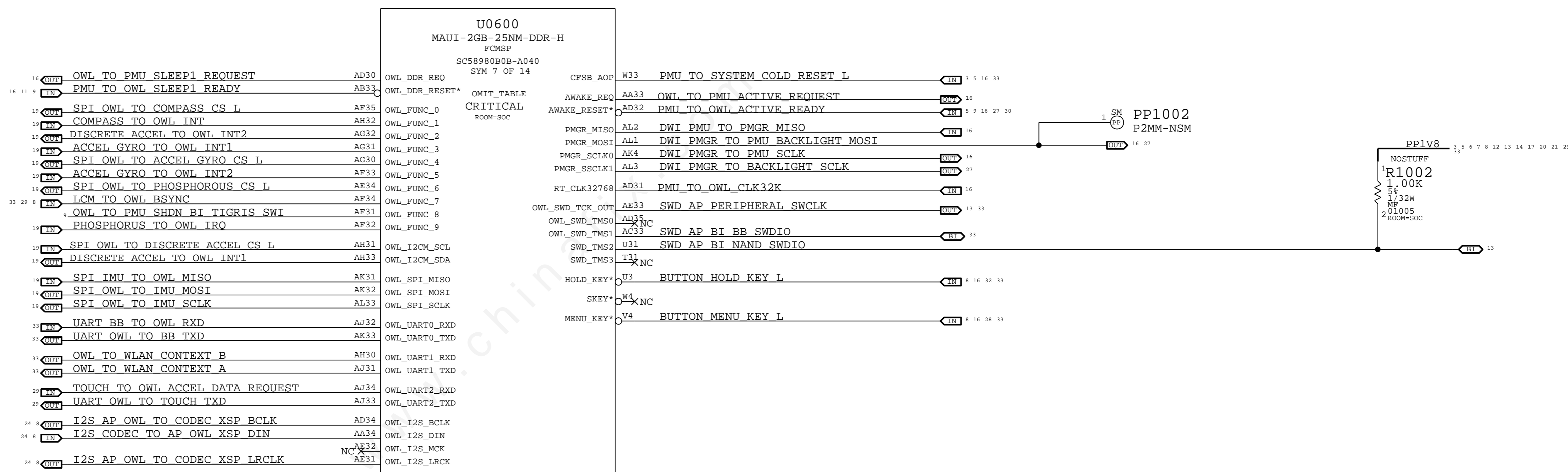
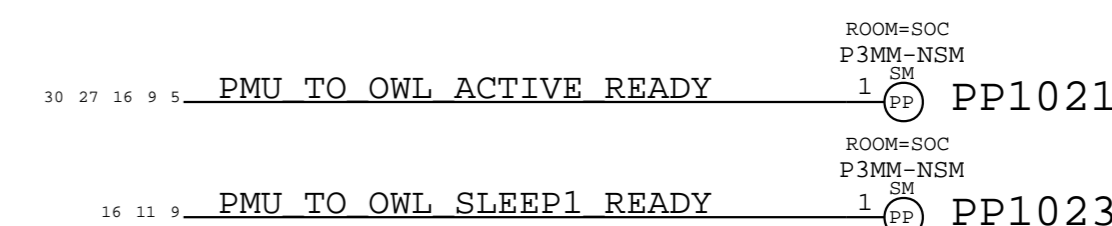


# MAUI - OWL

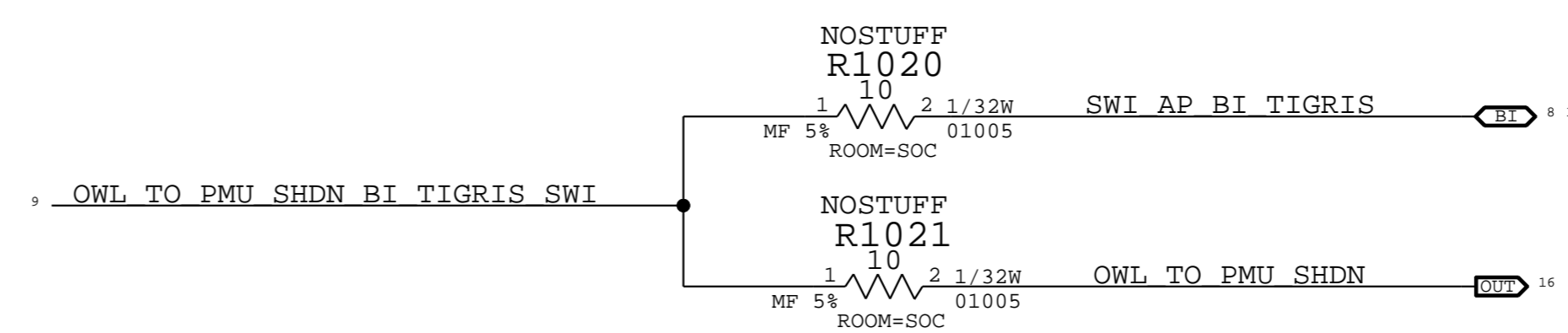


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## POWER STATE CONTROL PROBE POINTS



## OWL SYSTEM SHUTDOWN OPTION



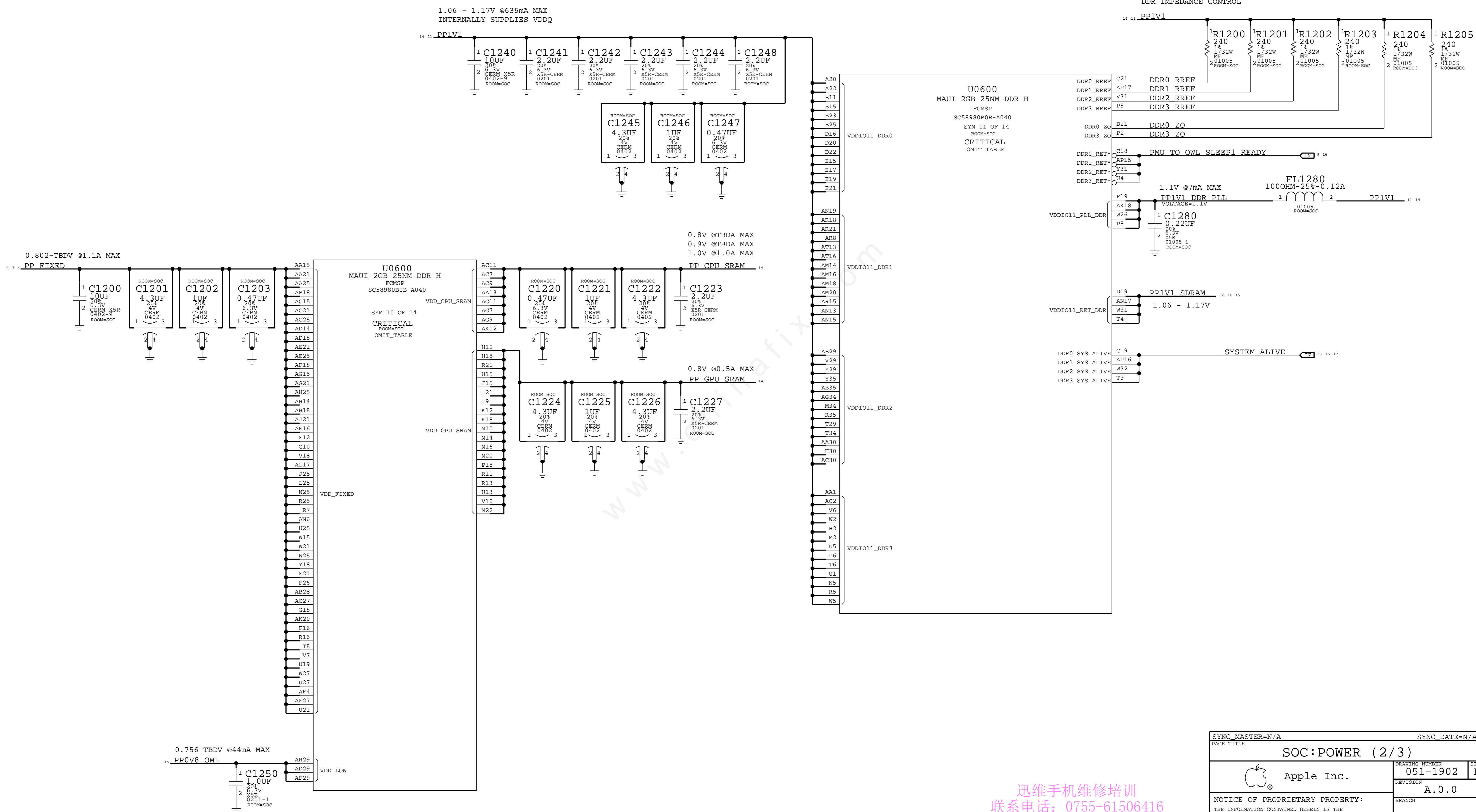
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# MAUI - POWER SUPPLIES

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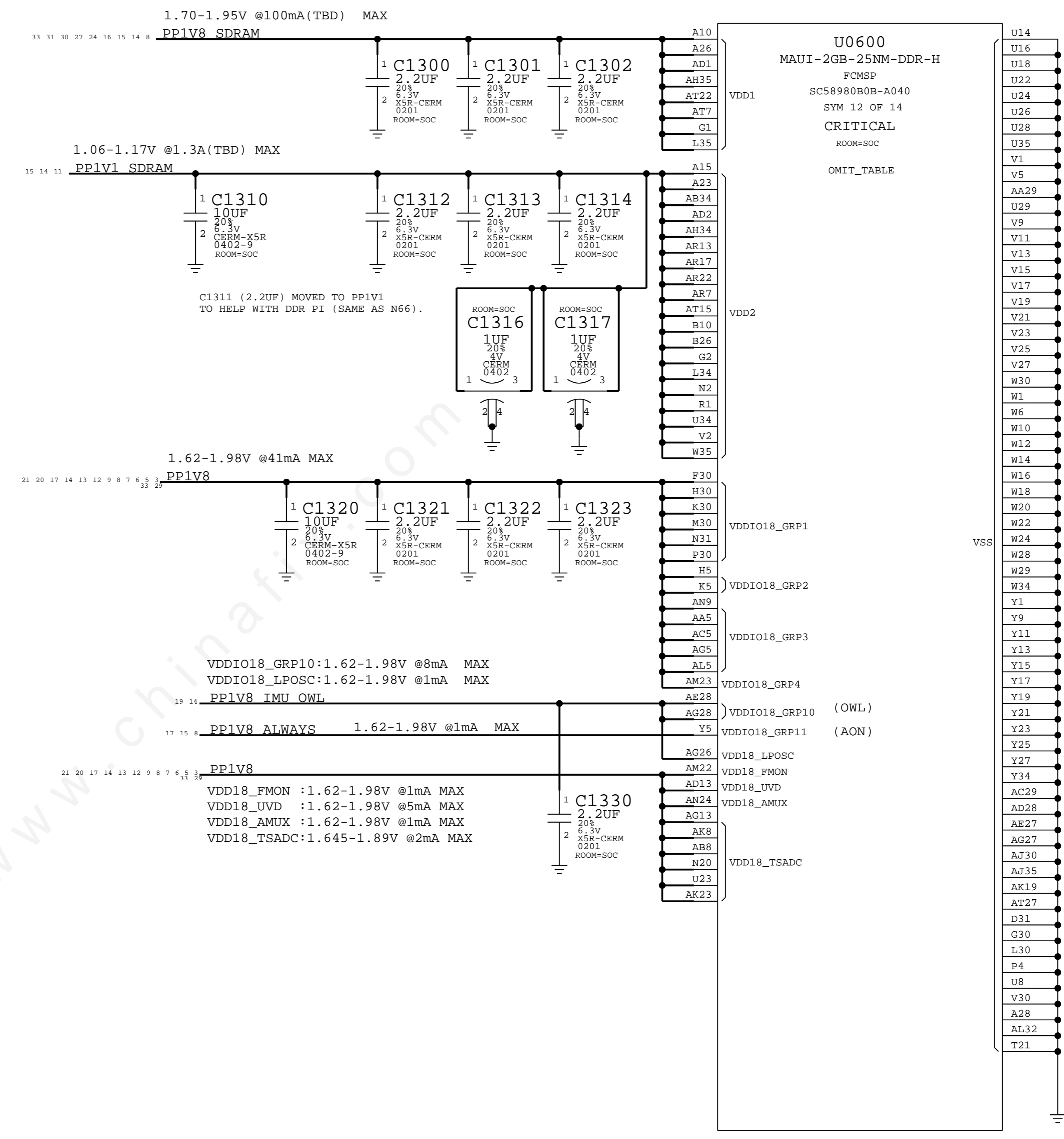
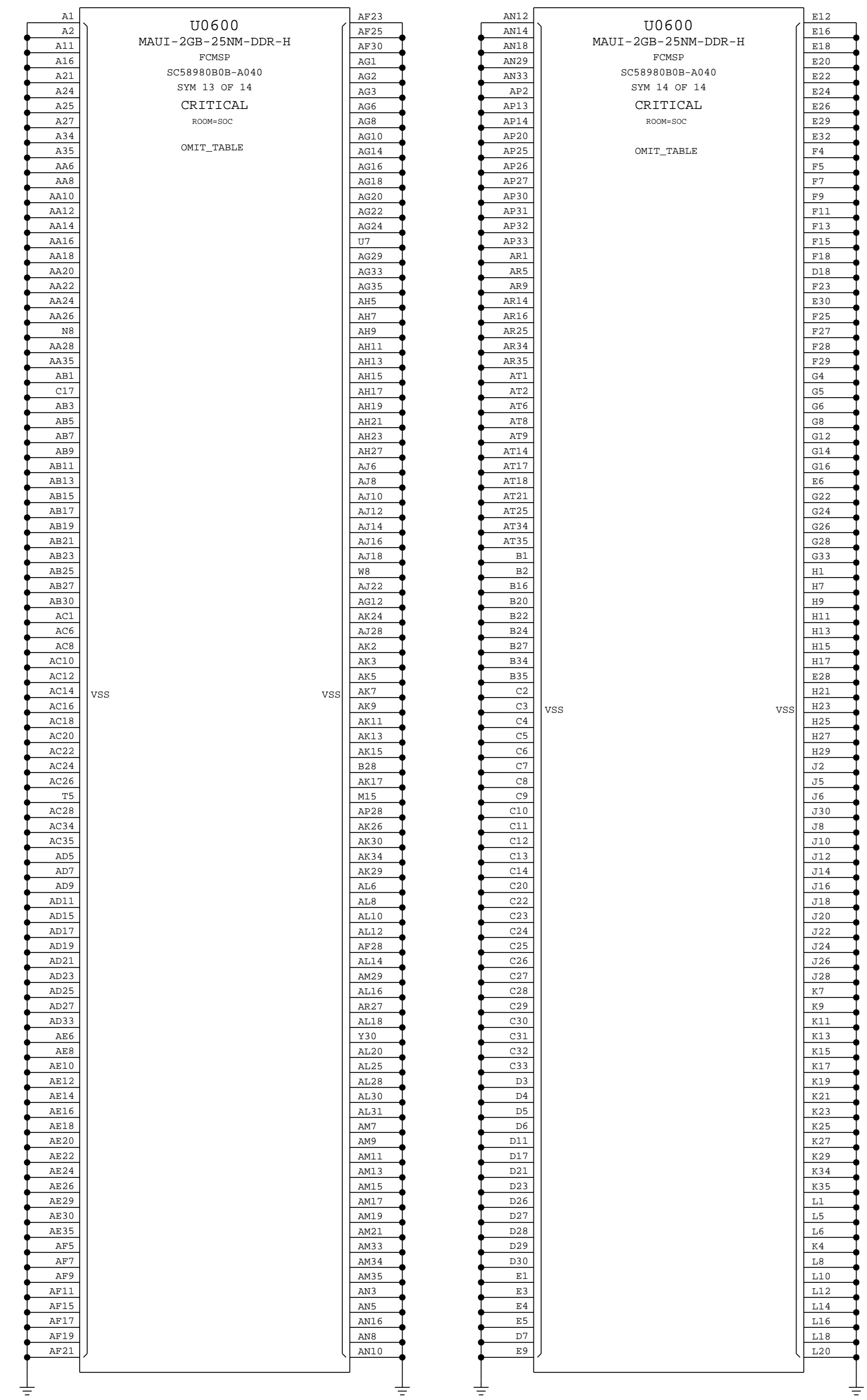


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			SHEET 11 OF 59

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# MAUI - POWER SUPPLIES

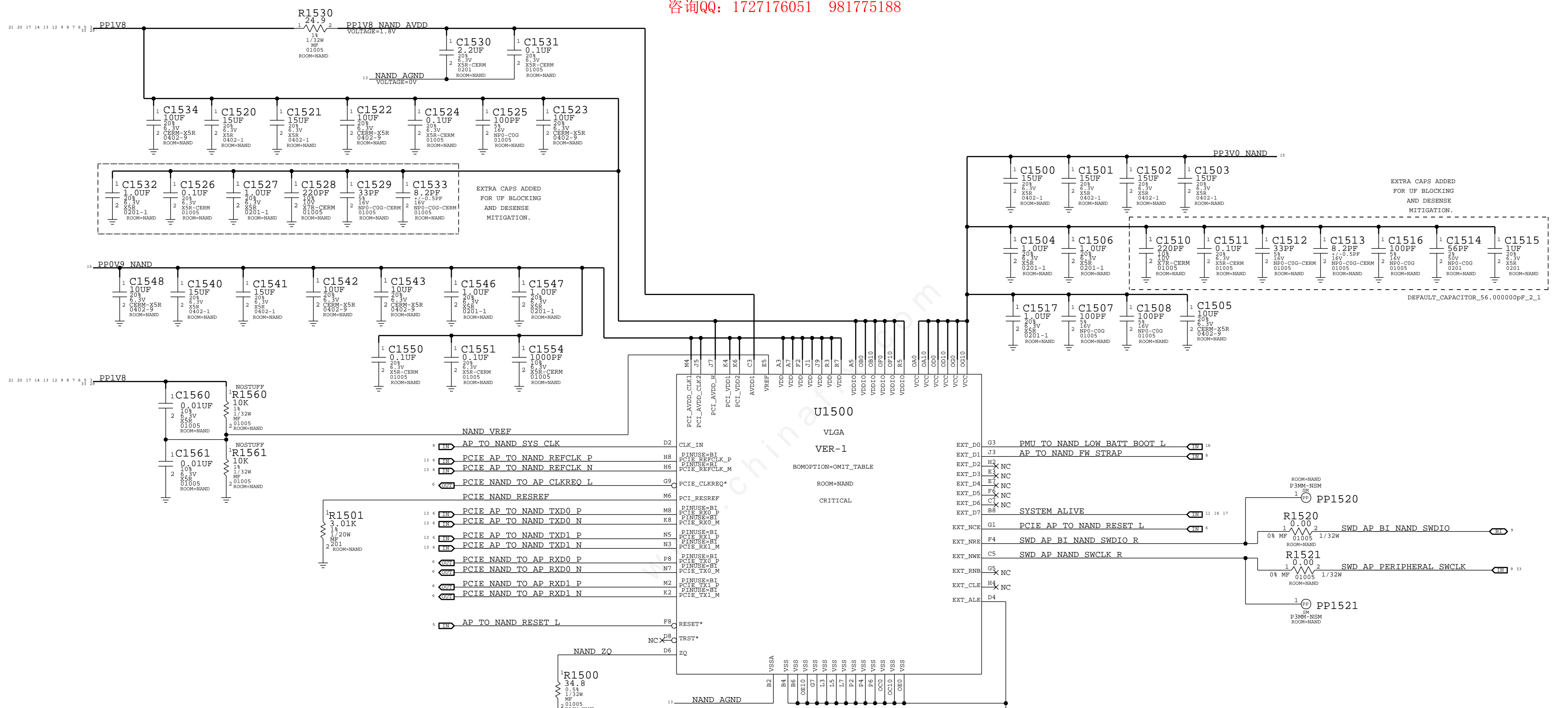


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# S3E NAND



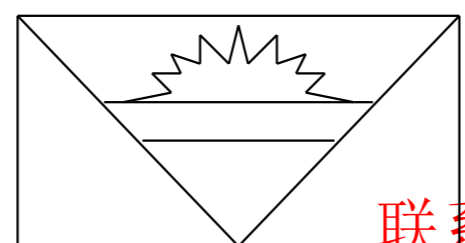
## PCIE RECEIVE-SIDE PROBE POINTS

- ROOM-NAND P3MM-NSM 1 PP1500
- ROOM-NAND P3MM-NSM 1 PP1501
- ROOM-NAND P3MM-NSM 1 PP1502
- ROOM-NAND P3MM-NSM 1 PP1503
- ROOM-NAND P3MM-NSM 1 PP1504
- ROOM-NAND P3MM-NSM 1 PP1505

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# ANTIGUA PMU - Buck Supplies



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D

D

C

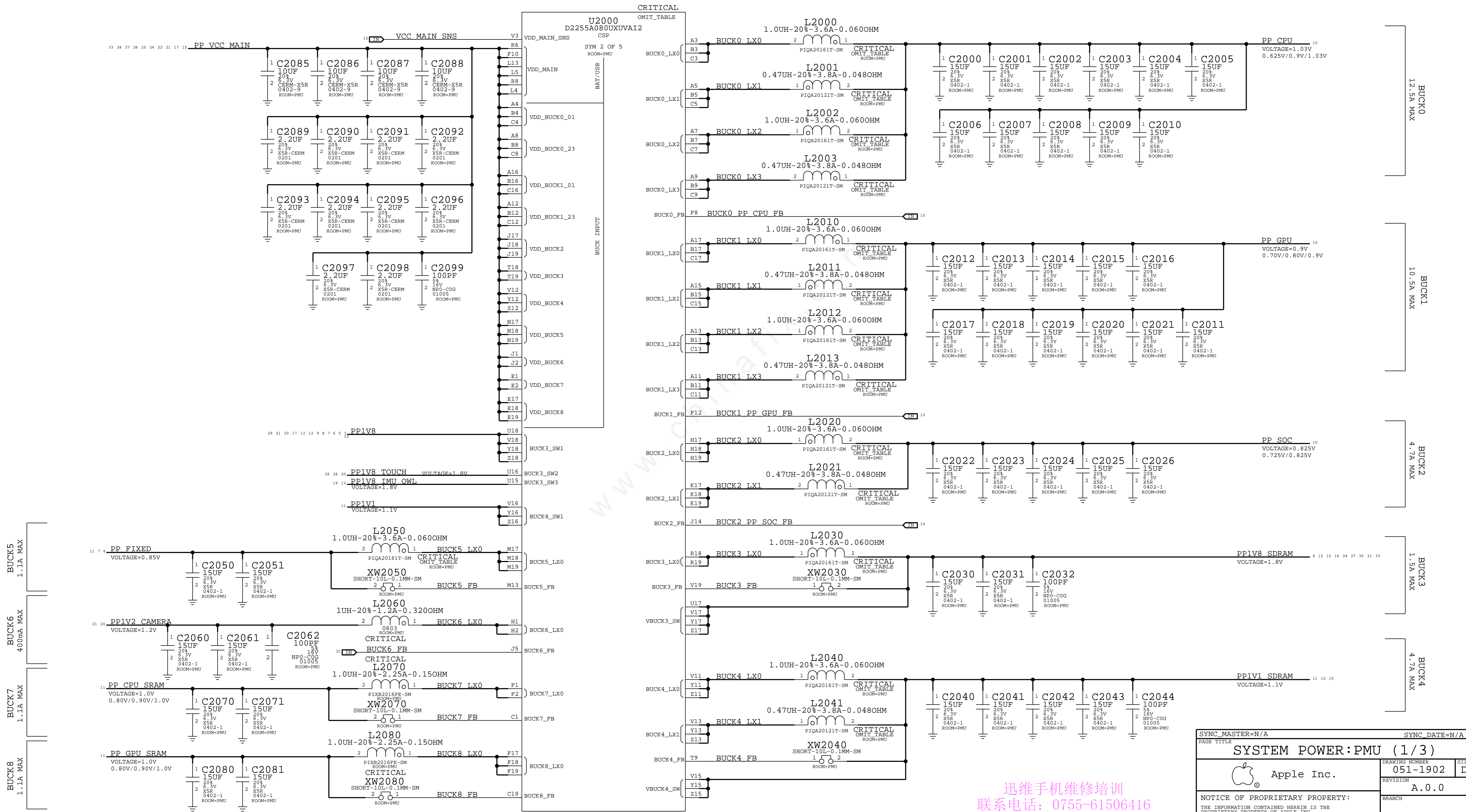
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B

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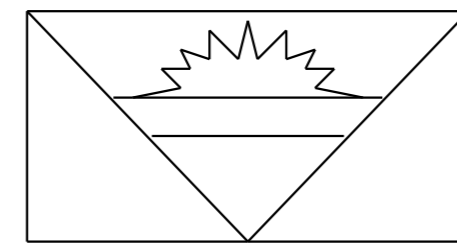
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# ANTIGUA PMU - LDOs



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## 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

D

D

C

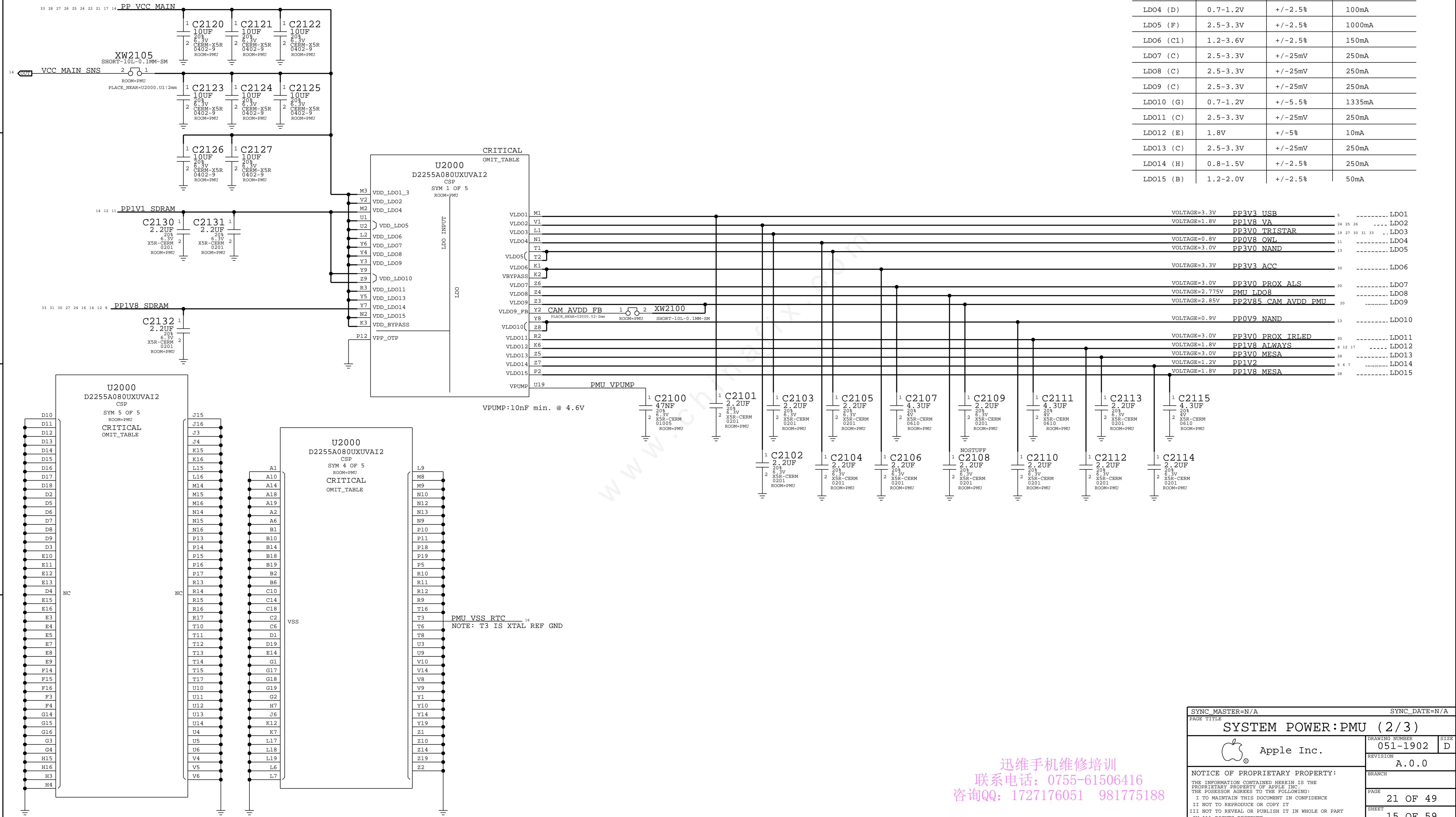
C

B

B

A

A



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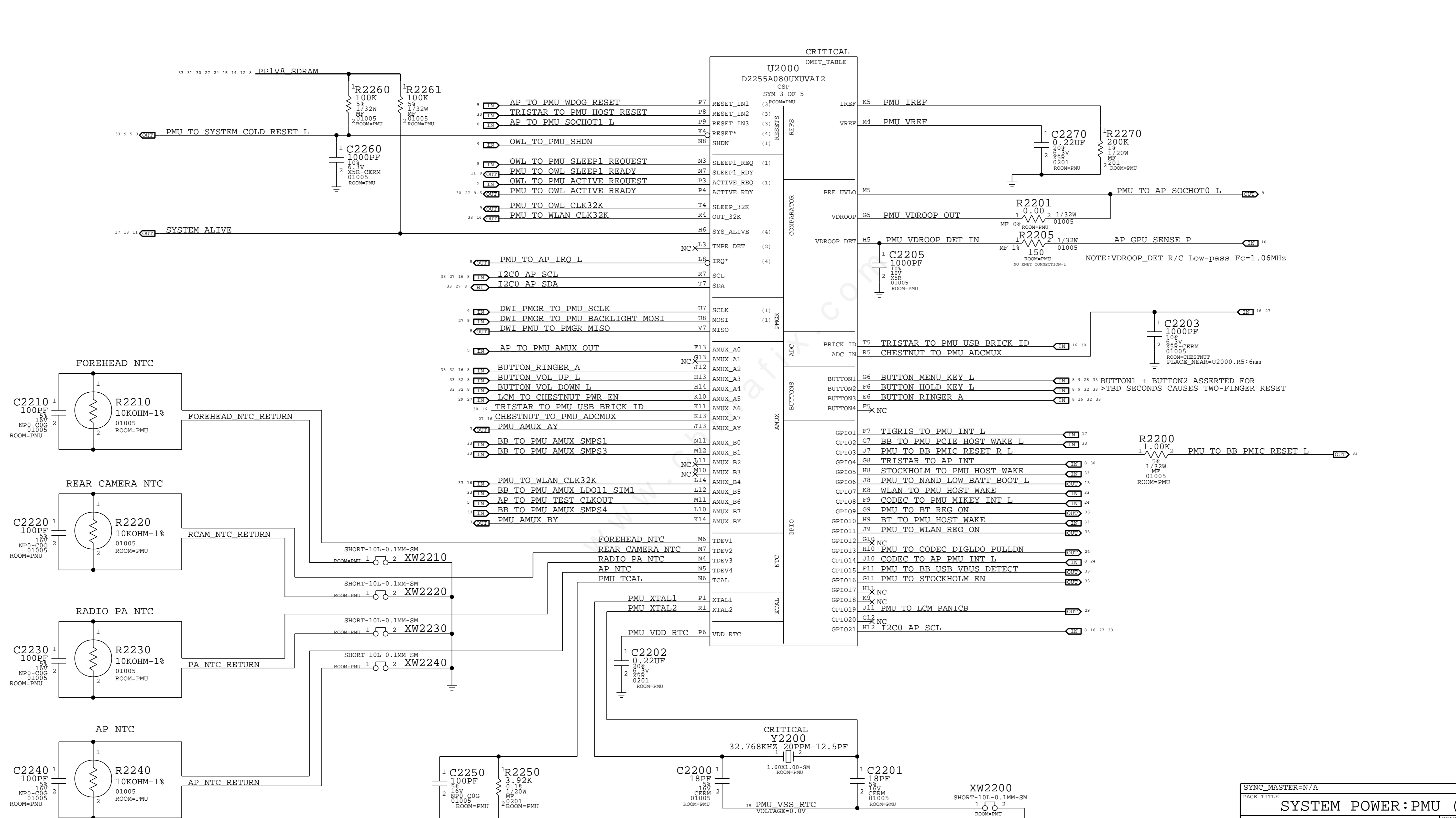
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# ANTIGUA PMU - GPIOs, NTCs

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### CONTROL PIN NOTES:

- 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



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

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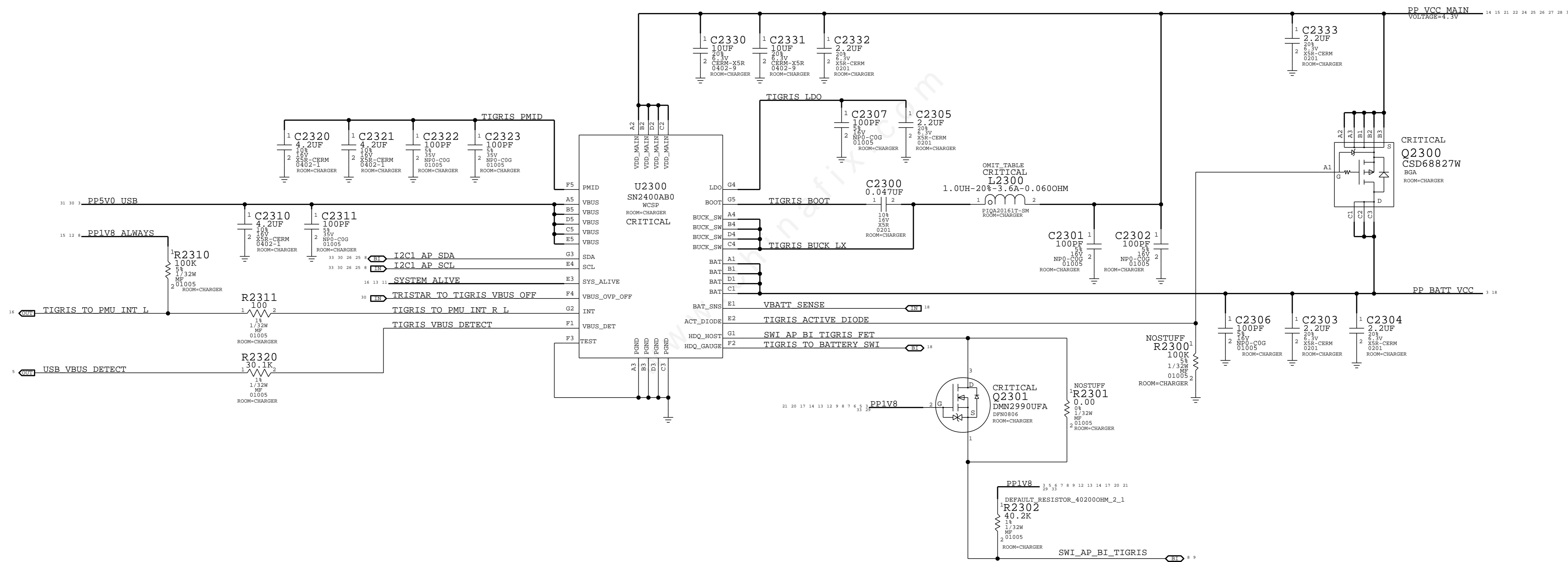
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# TIGRIS CHARGER

APN: 343S00033



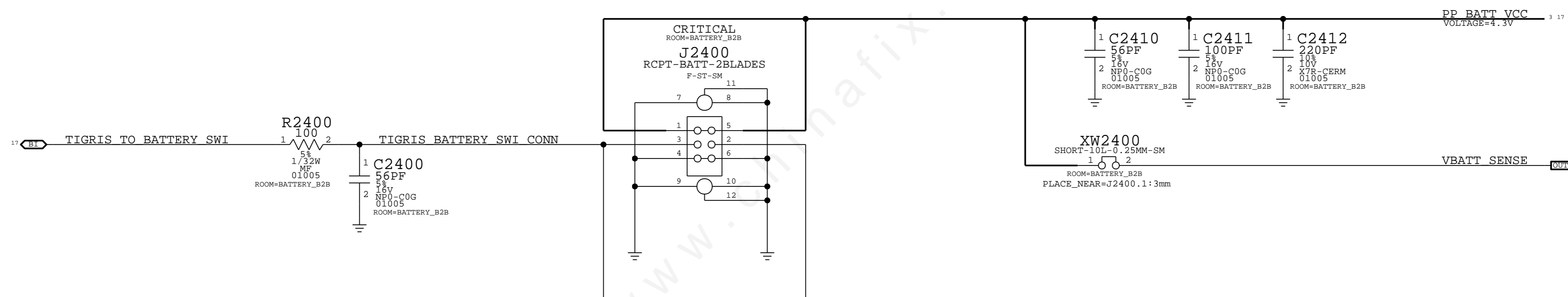
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### BATTERY CONNECTOR

THIS ONE ON MLB ----> 516S00104 (RCPT)  
 516S00105 (PLUG)



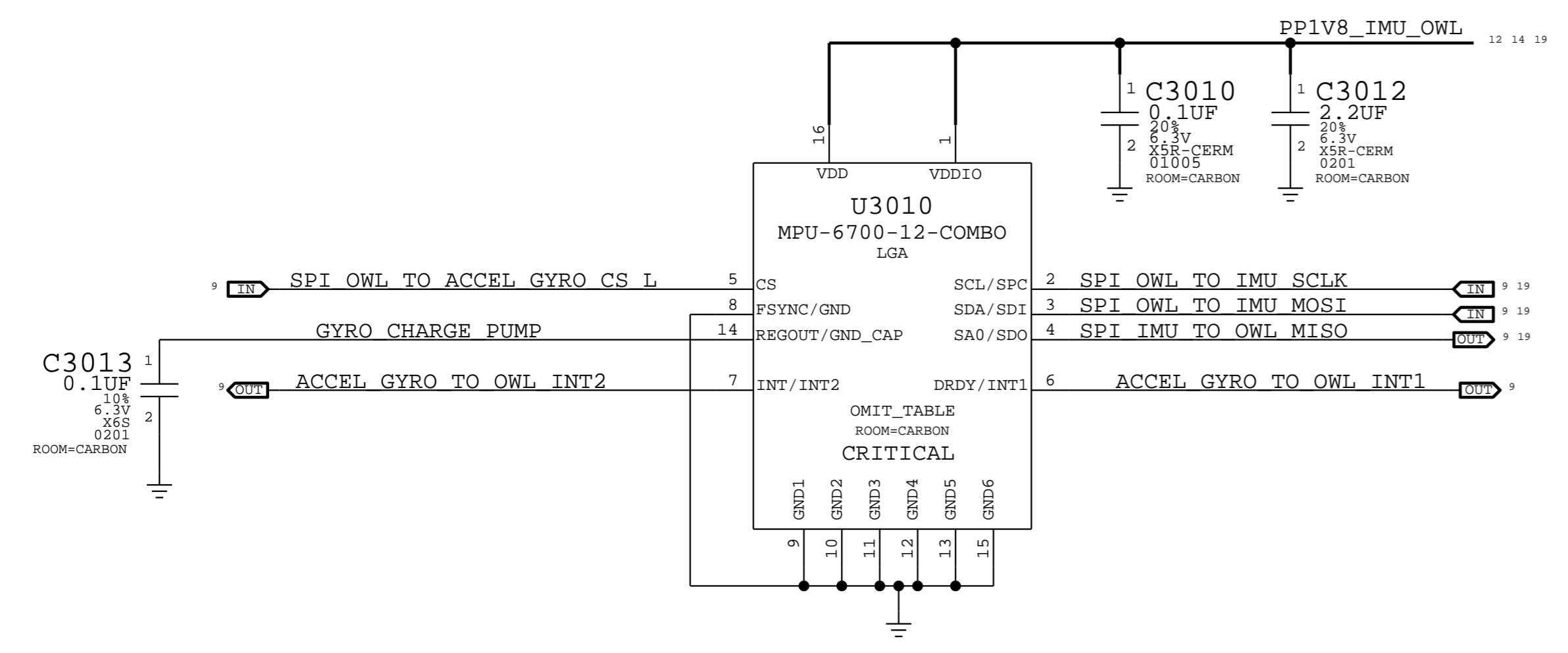
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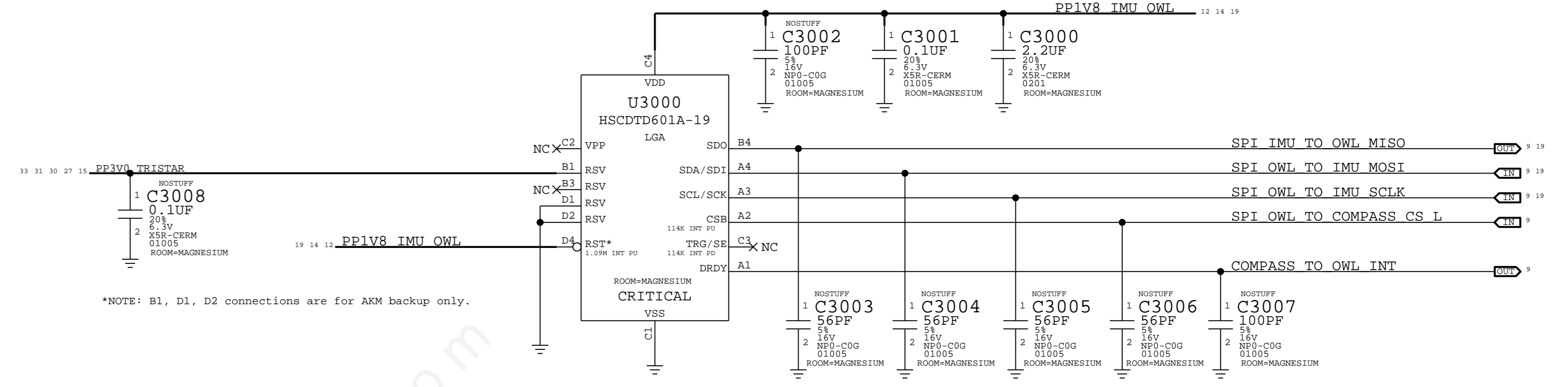
### CARBON - ACCEL & GYRO

INVENSENSE (APN: 338S00017, 338S00087)



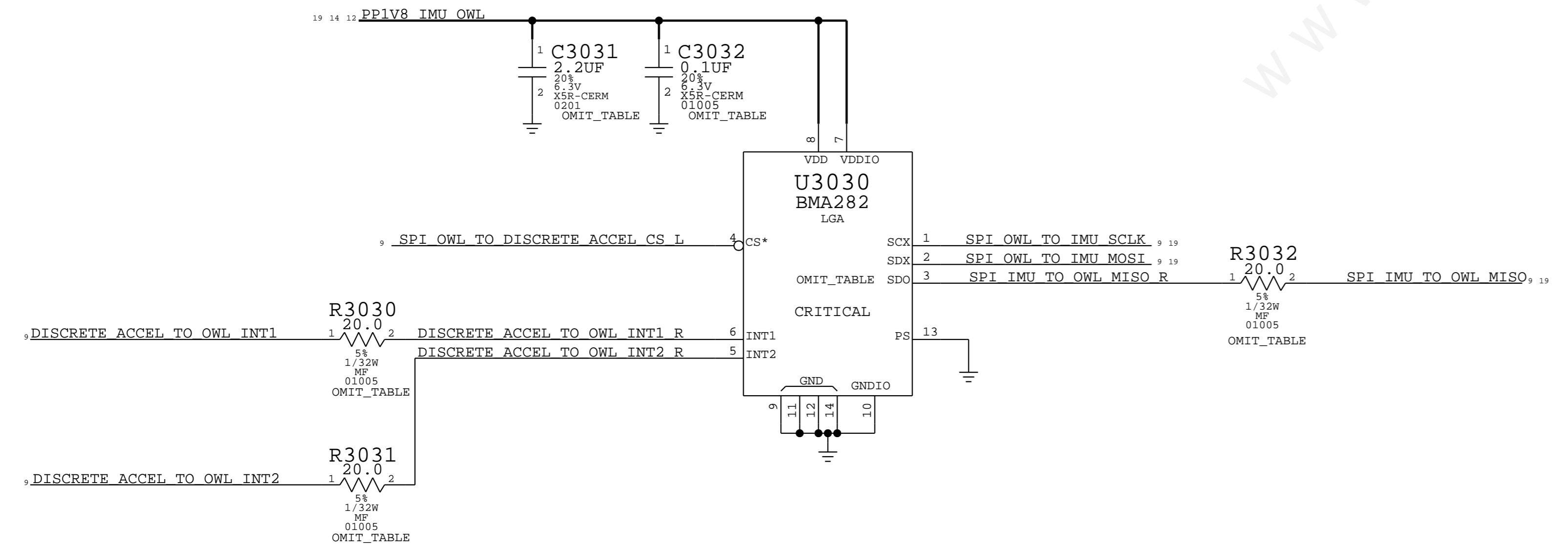
### MAGNESIUM - COMPASS

ALPS (APN:338S00084)



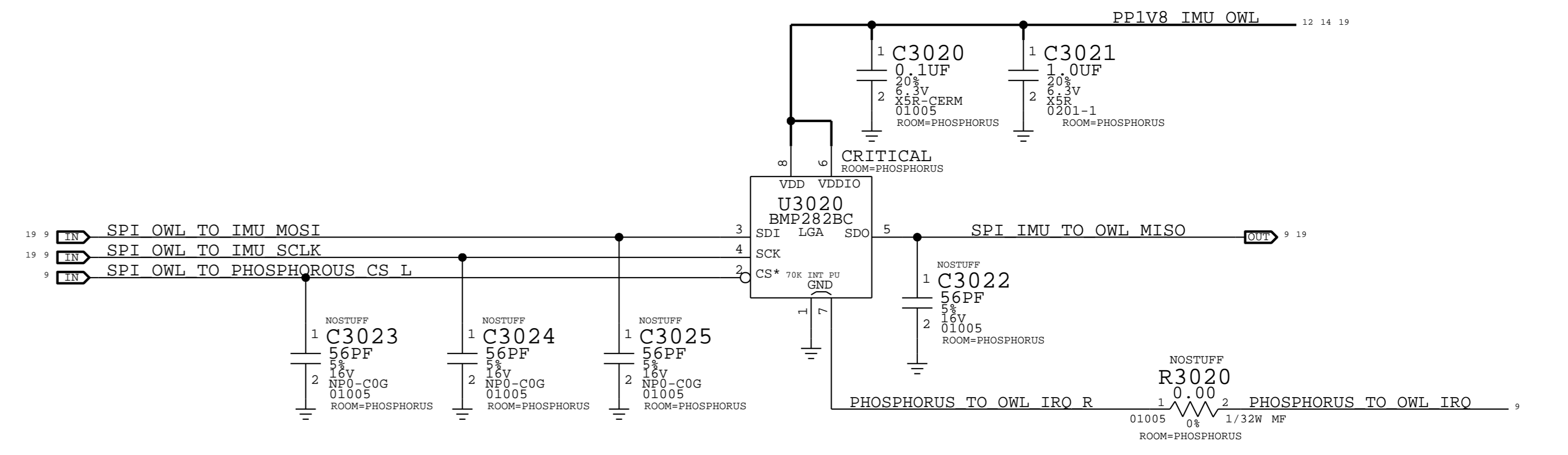
### DISCRETE ACCEL

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.

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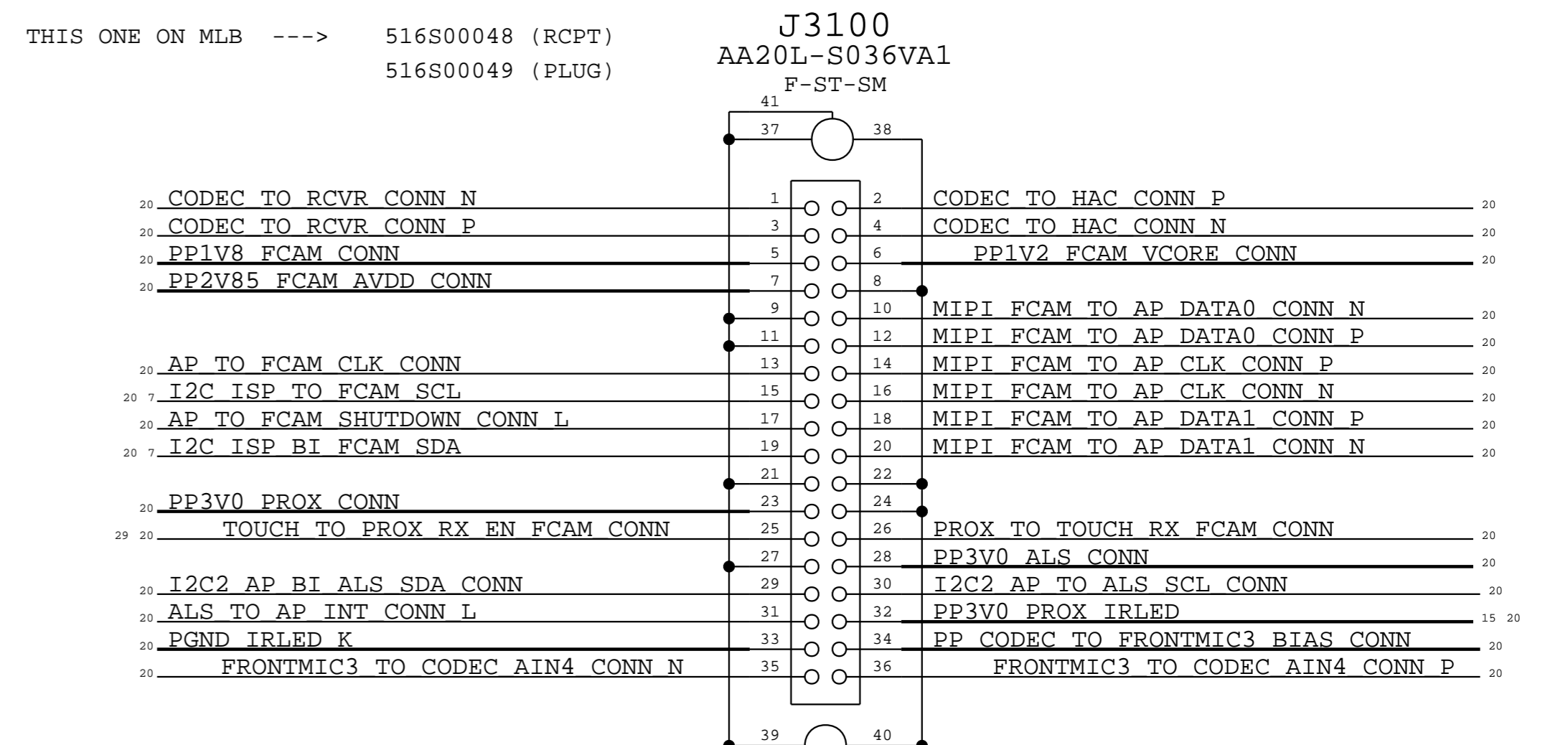
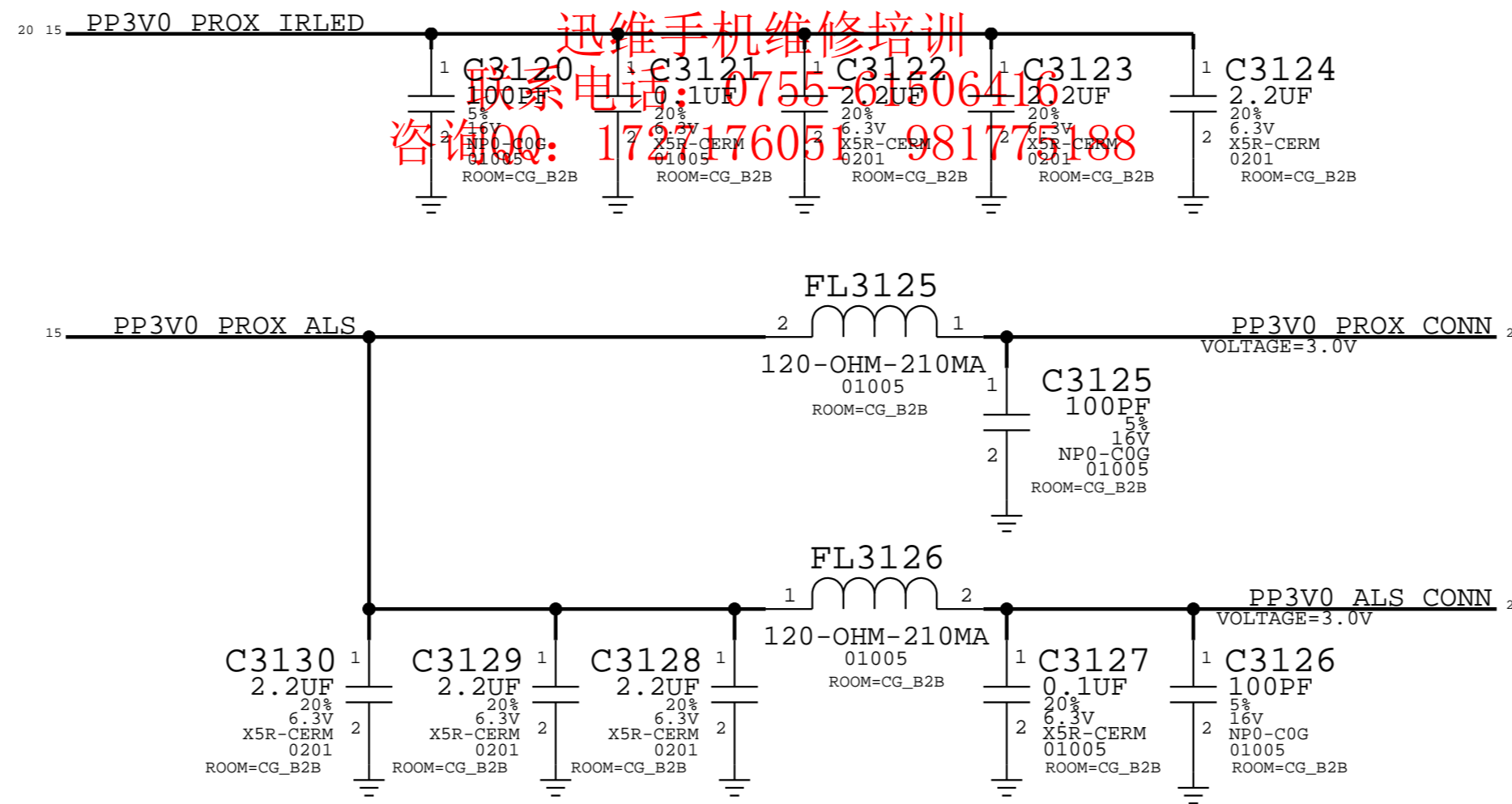
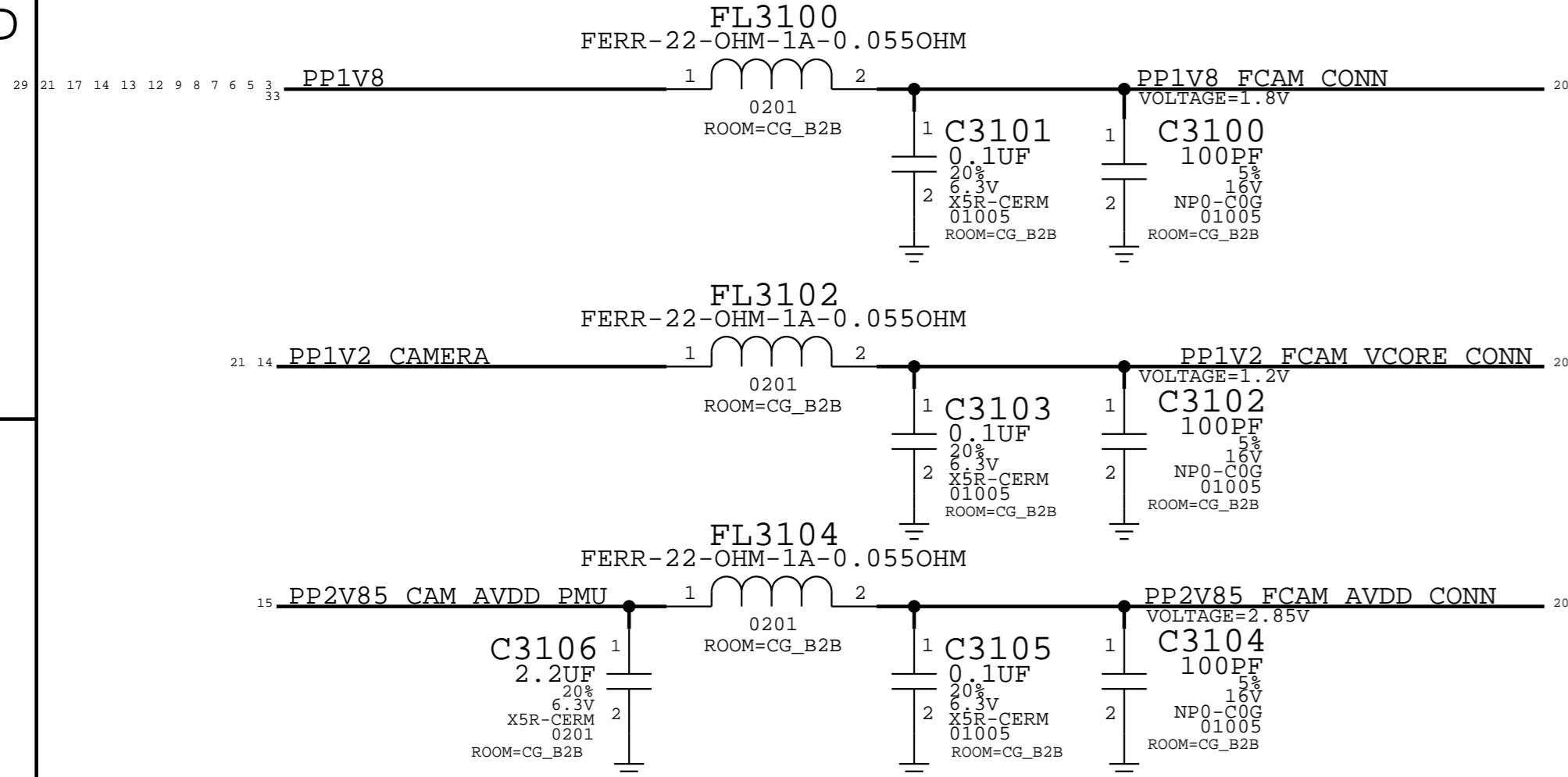
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		PAGE	30 OF 49
		SHEET	19 OF 59

# FOREHEAD FLEX (FCAM)

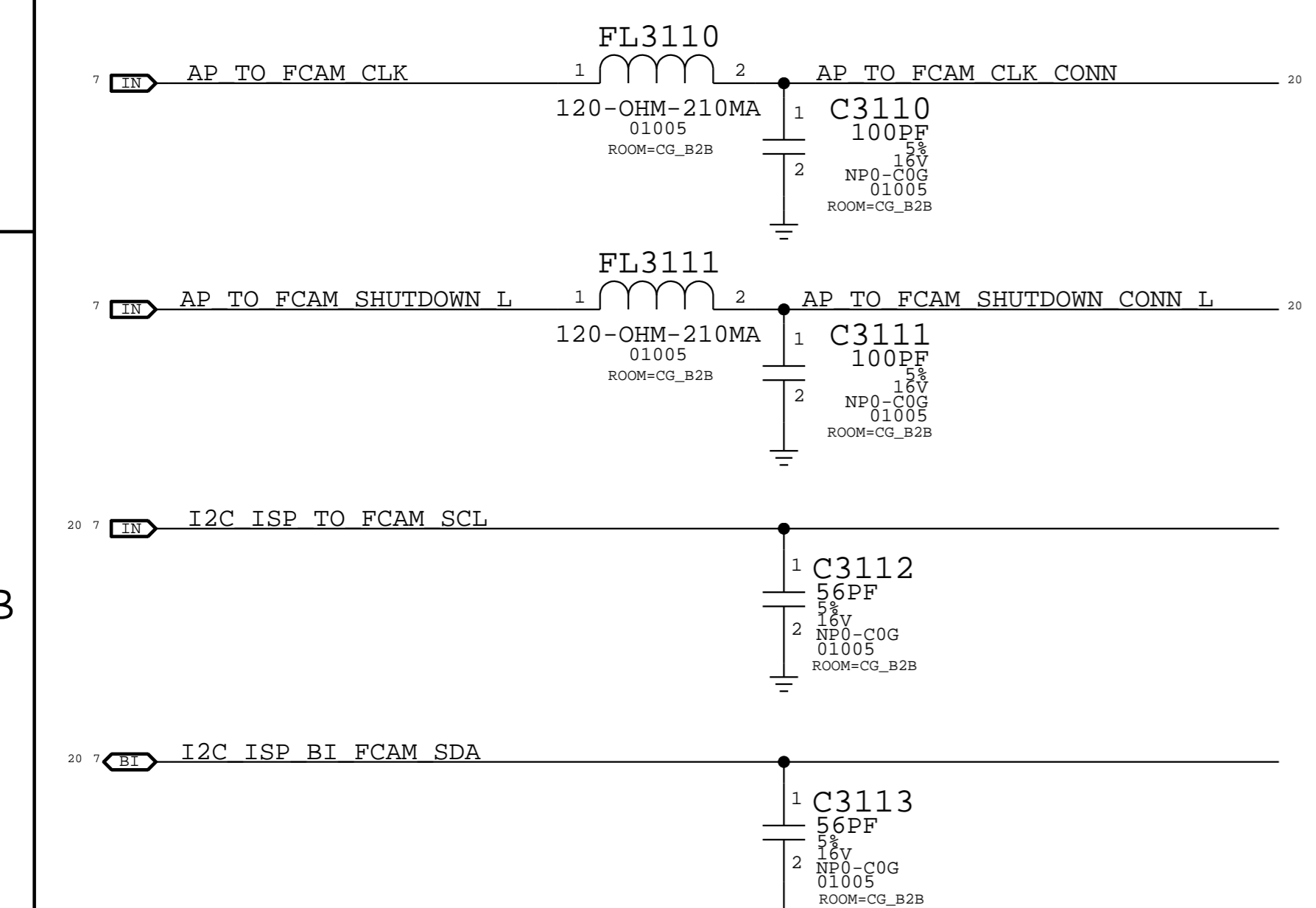
## PROX & ALS POWER

## FOREHEAD CONNECTOR

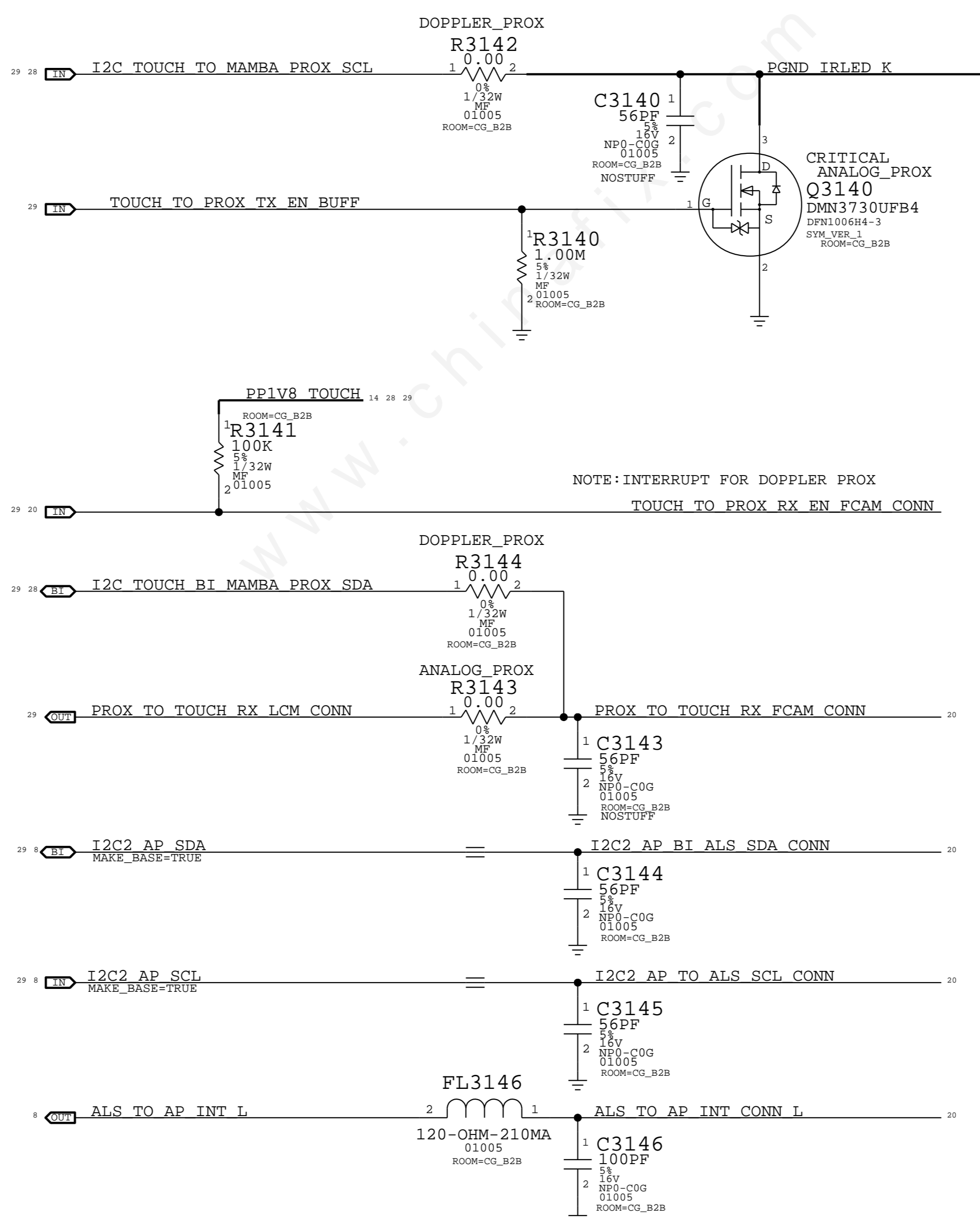
### CAMERA POWER



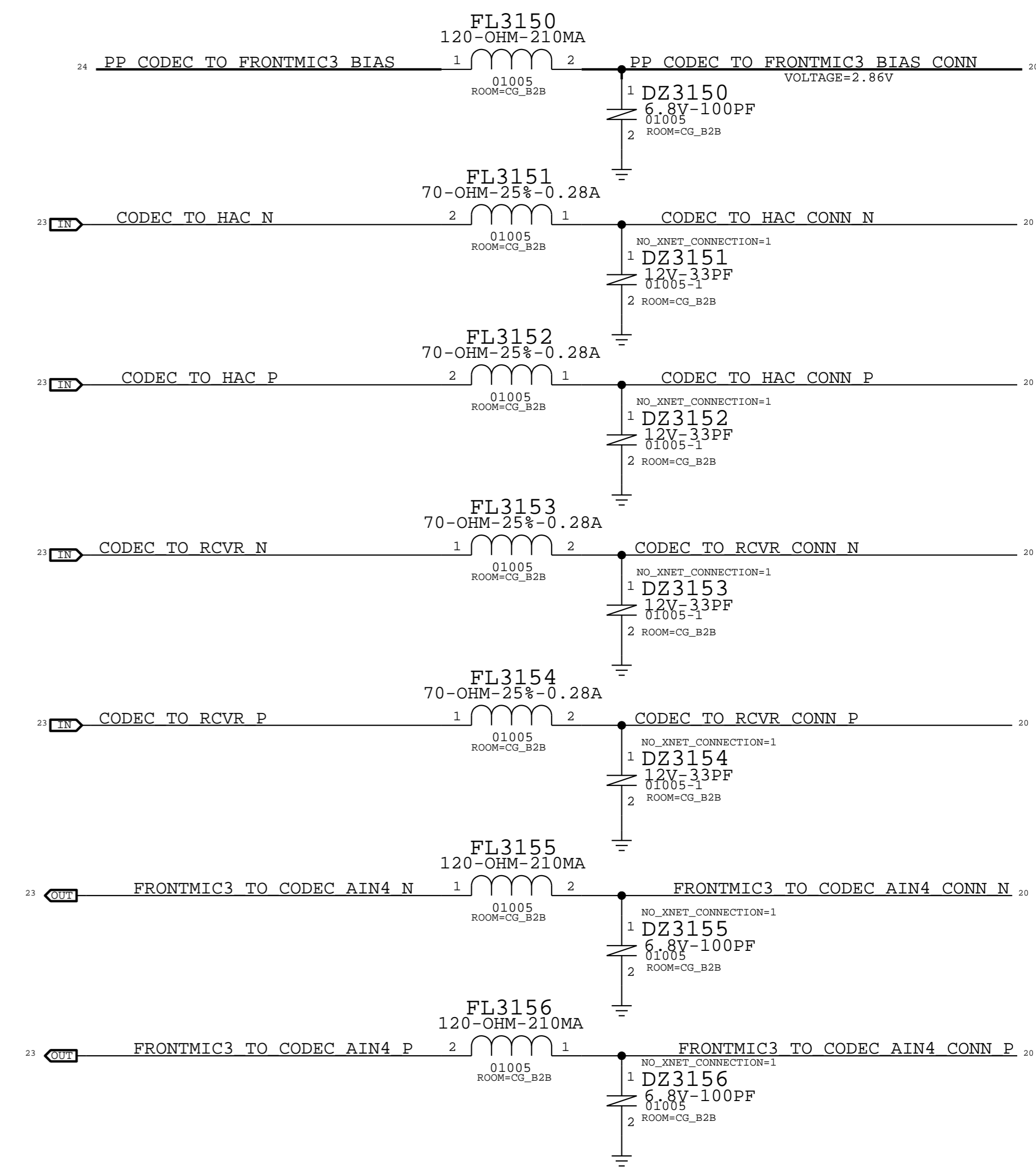
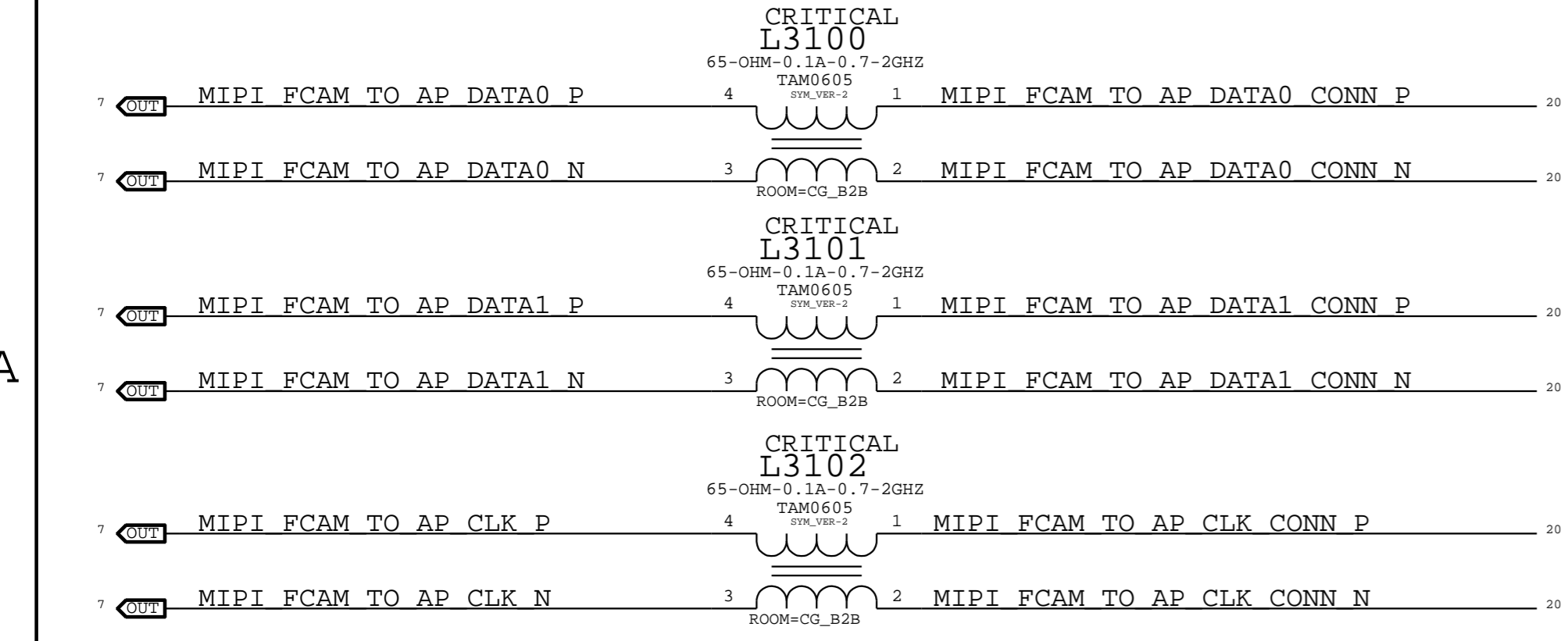
### CAMERA I/O



## PROX & ALS INTERFACE



### CAMERA MIPI



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咨询QQ: 1727176051 981775188

SYNC_MASTER=N/A		SYNC_DATE=N/A	
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CAMERA: FOREHEAD FLEX B2B			
DRAWING NUMBER		SIZE	
051-1902		D	
REVISION		A.0.0	
BRANCH		PAGE	
		31 OF 49	
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# REAR CAMERA FLEX

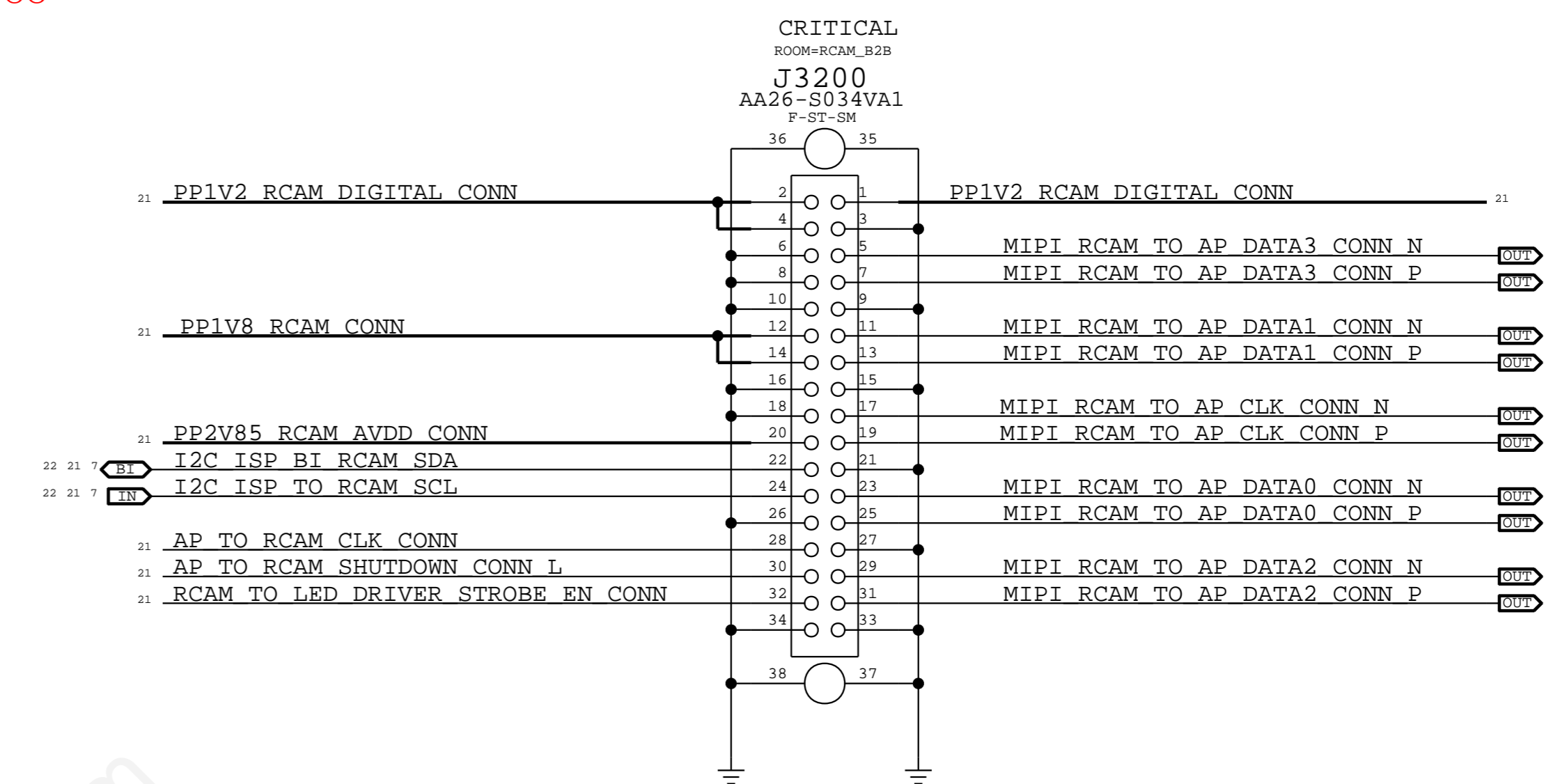
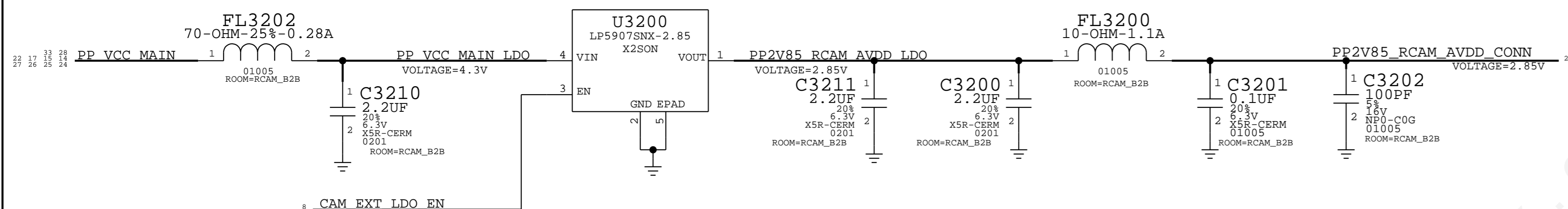
迅维手机维修培训  
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 咨询QQ: 1727176051 981775188

# RCAM CONNECTOR

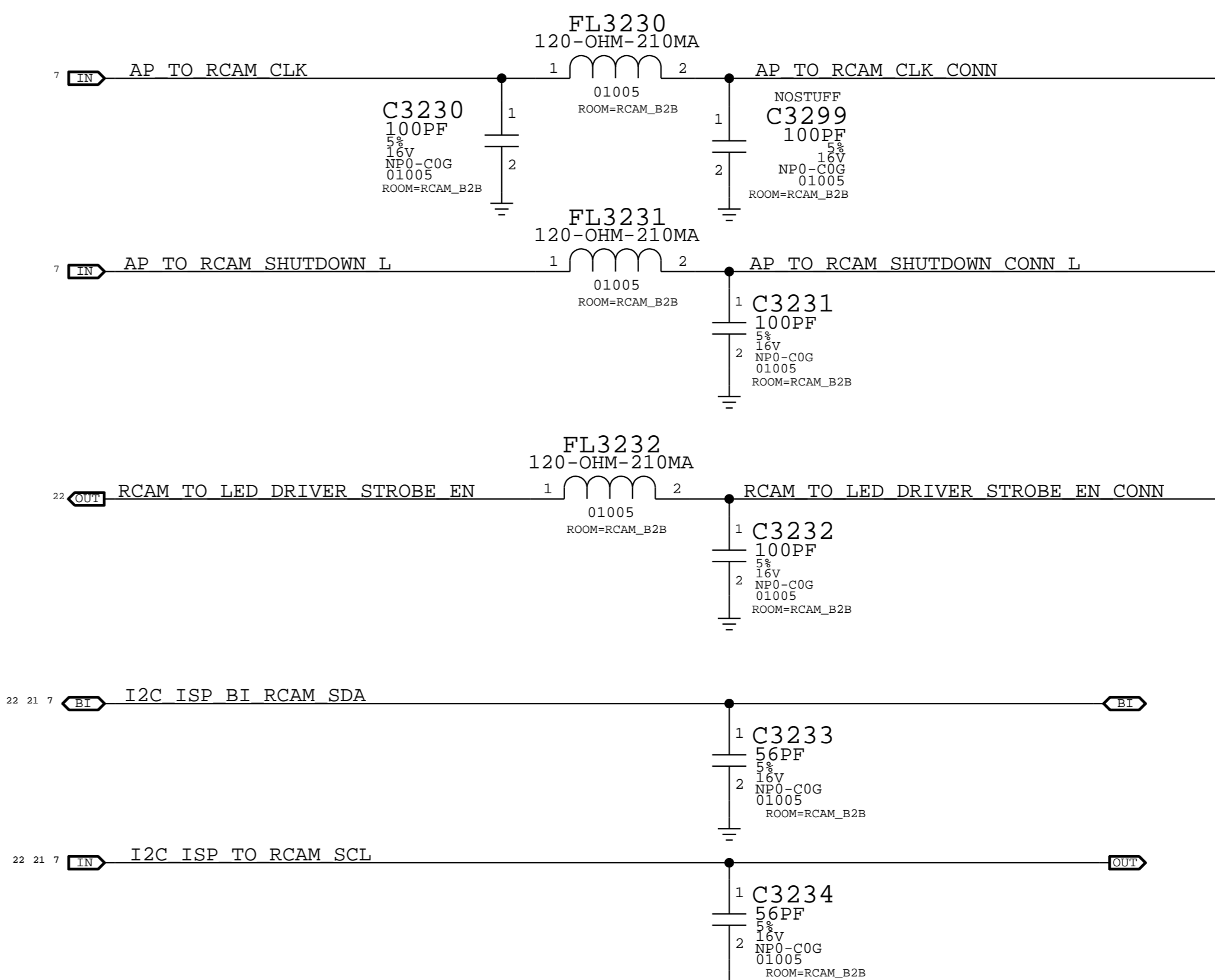
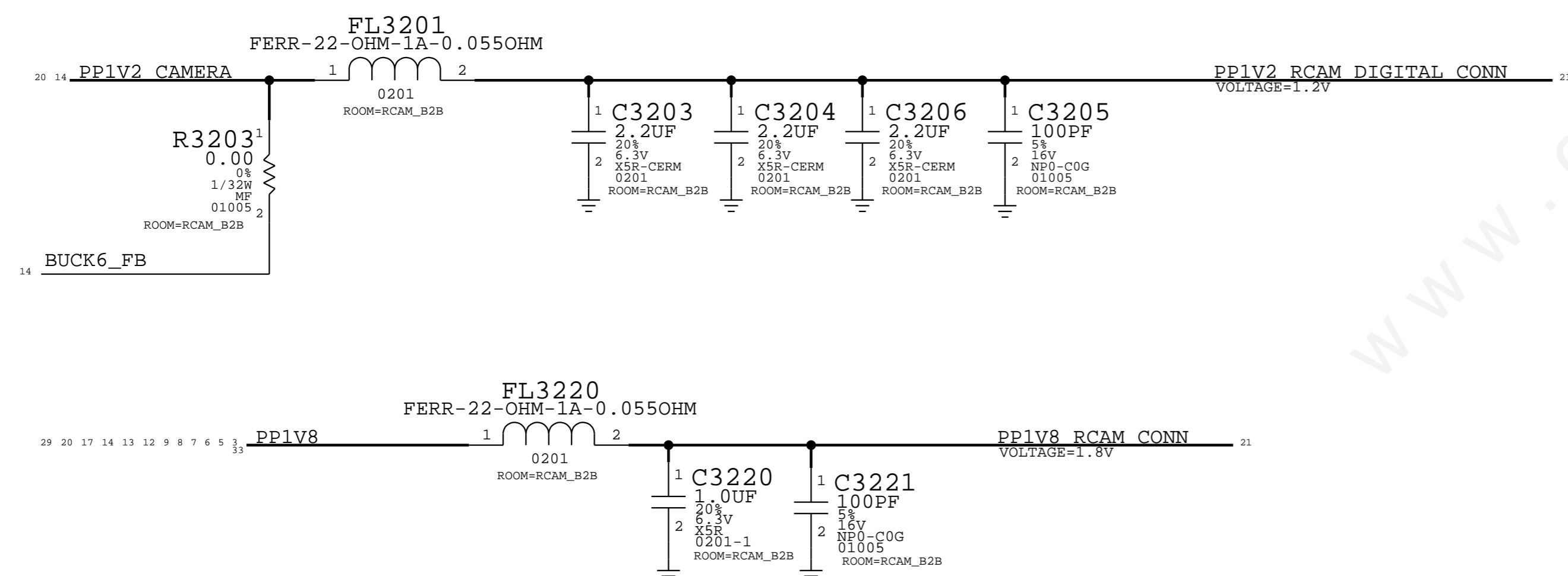
THIS ONE ON MLB ----> 516S00043 (RCPT)  
 516S00042 (PLUG)

## CAMERA POWER

NOTE: OUTPUT IMPEDANCE MUST BE >0.01-OHM  
 IN ORDER TO MEET CAP ESR REQUIREMENT PER LDO SPEC.



## DIGITAL I/O



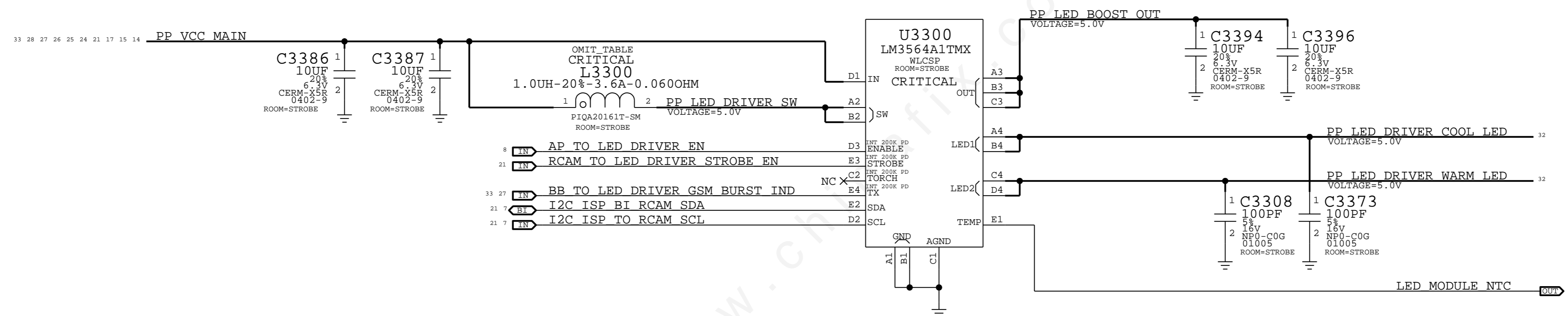
迅维手机维修培训  
 联系电话: 0755-61506416  
 咨询QQ: 1727176051 981775188

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Apple Inc.	DRAWING NUMBER	051-1902	SIZE D
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		PAGE	32 OF 49
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 咨询QQ：1727176051 981775188

# DUAL LED STROBE DRIVER

APN: 353S3899

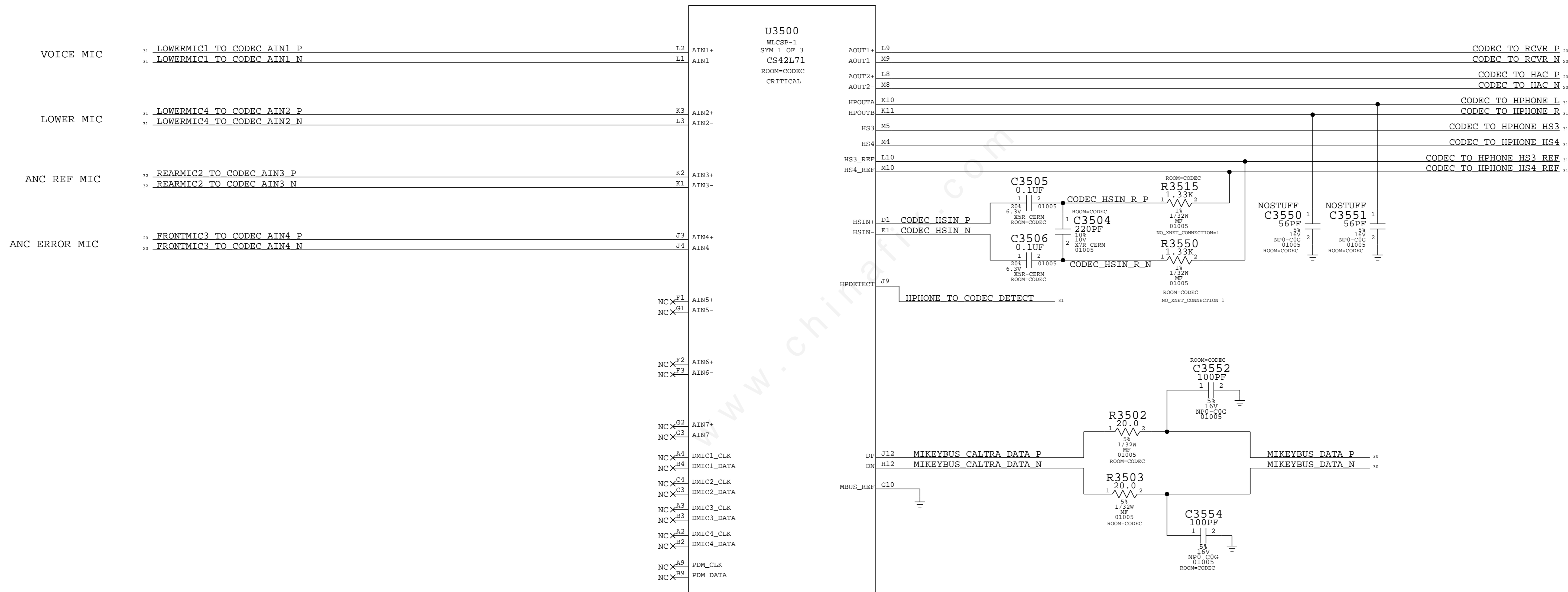


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 咨询QQ：1727176051 981775188

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	DRAWING NUMBER	051-1902	SIZE D
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NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
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		SHEET	22 OF 59

# CALTRA AUDIO CODEC (ANALOG INPUTS & OUTPUTS)

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咨询QQ: 1727176051 981775188

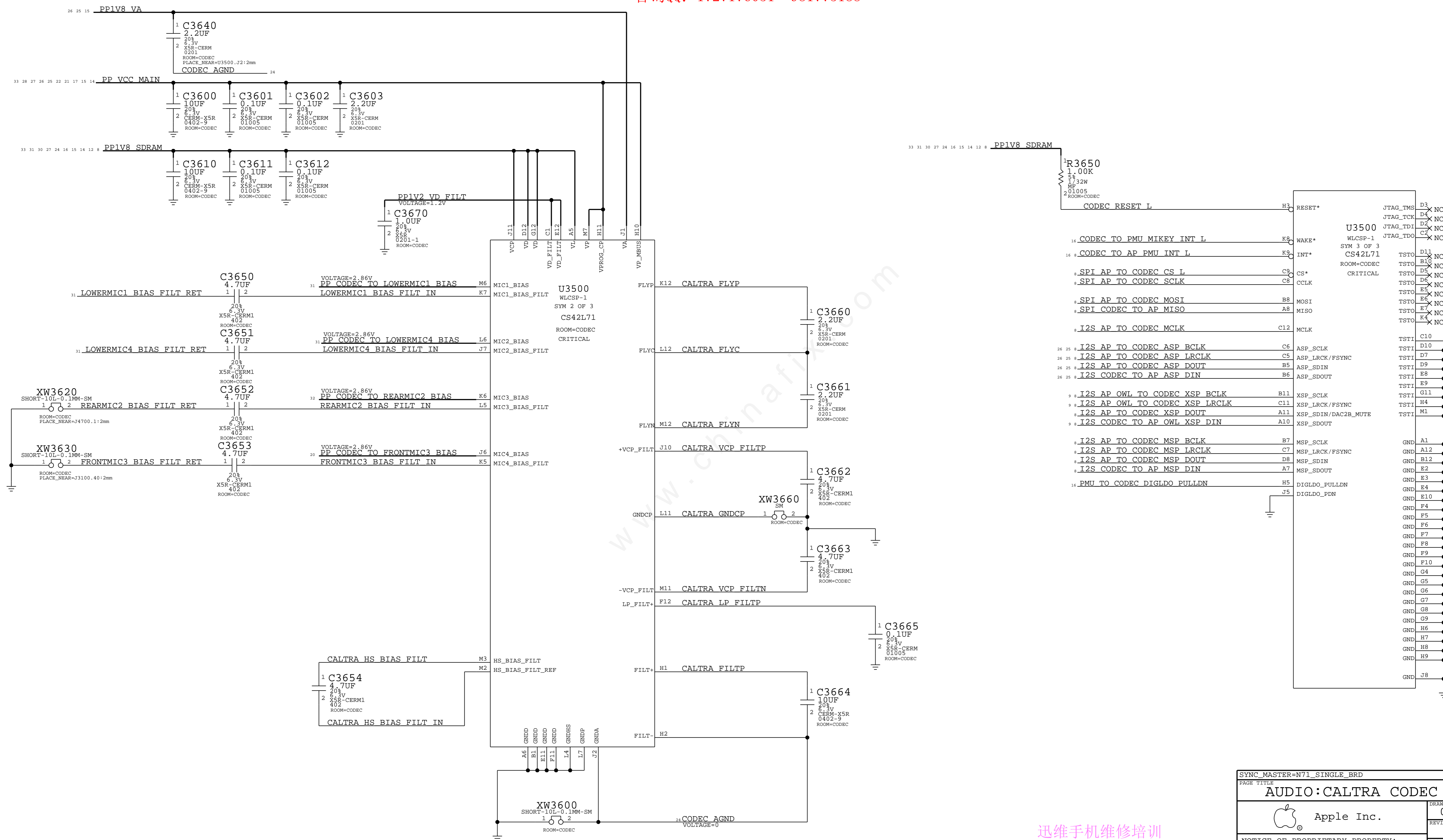


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联系电话: 0755-61506416  
咨询QQ: 1727176051 981775188

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Apple Inc.	DRAWING NUMBER	051-1902	SIZE
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III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		23 OF 59	
IV ALL RIGHTS RESERVED			

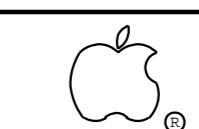
# CALTRA AUDIO CODEC (POWER & I/O)

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咨询QQ: 1727176051 981775188



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咨询QQ: 1727176051 981775188

SYNC_MASTER=N71_SINGLE_BRD		SYNC_DATE=05/29/2014	
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AUDIO: CALTRA CODEC (2/2)			
DRAWING NUMBER		SIZE	
051-1902		D	
REVISION		A.0.0	
BRANCH			
PAGE		36 OF 49	
SHEET		24 OF 59	
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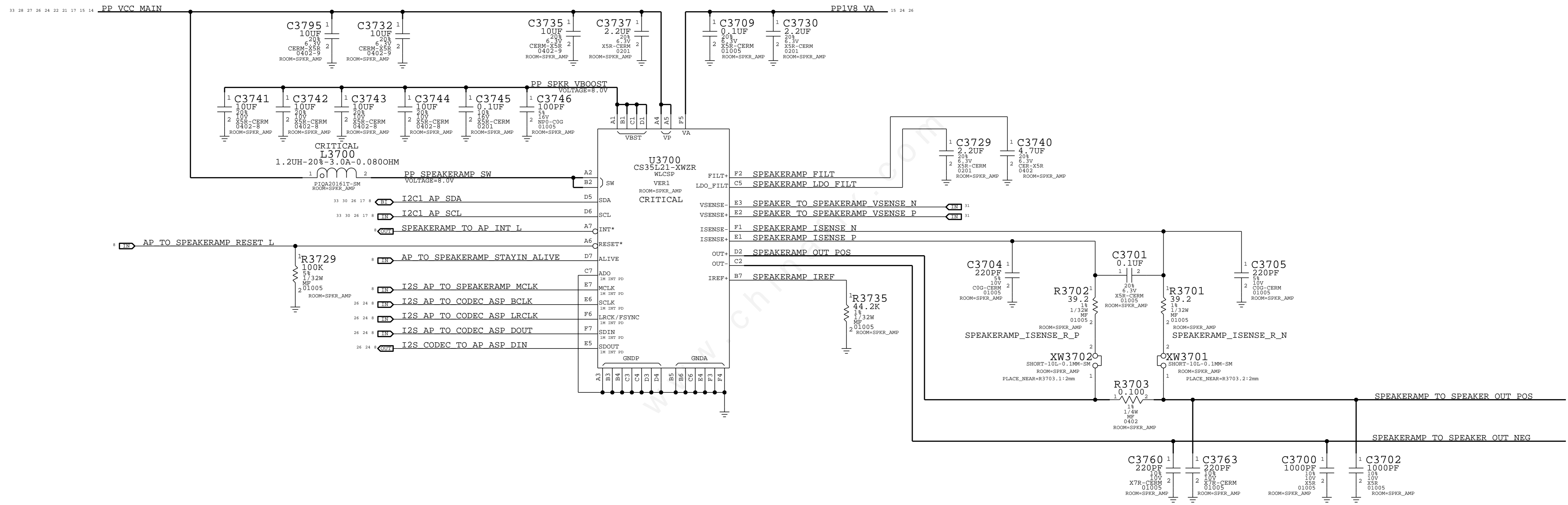
Apple Inc.



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 联系电话: 0755-61506416  
 咨询QQ: 1727176051 981775188

# SPEAKER AMPLIFIER

APN: 338S1285



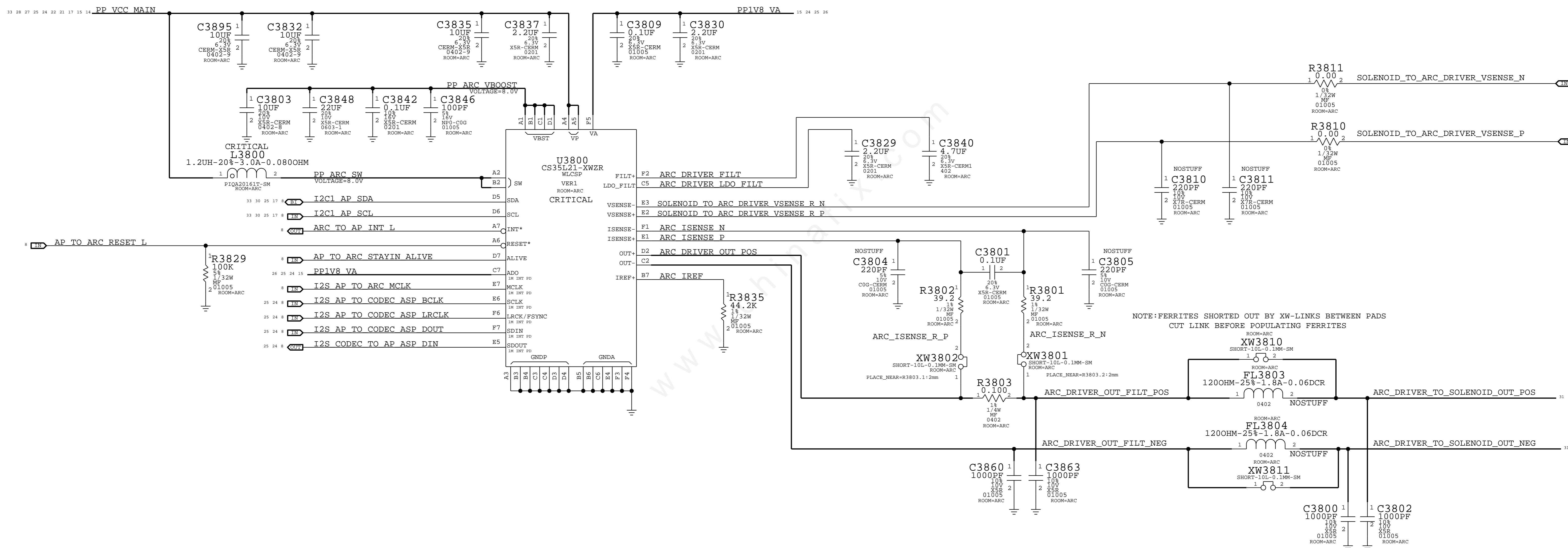
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 联系电话: 0755-61506416  
 咨询QQ: 1727176051 981775188

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	DRAWING NUMBER	051-1902	SIZE D
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PAGE		37 OF 49	
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 咨询QQ: 1727176051 981775188

# ARC DRIVER

APN: 338S1285



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 咨询QQ: 1727176051 981775188

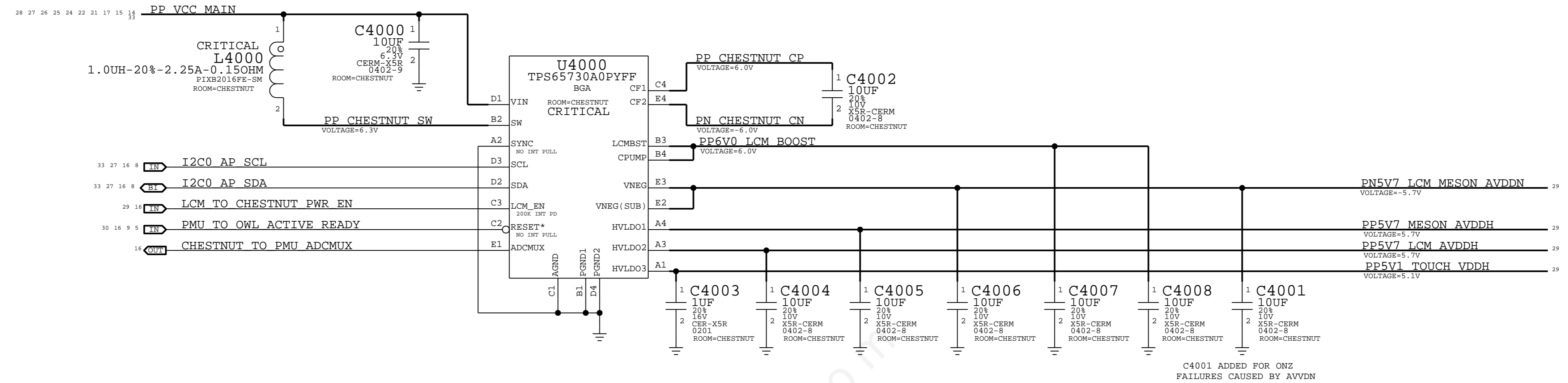
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# DISPLAY & TOUCH - POWER SUPPLIES

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联系电话: 0755-61506416  
咨询QQ: 1727176051 981775188

## CHESTNUT DISPLAY PMU

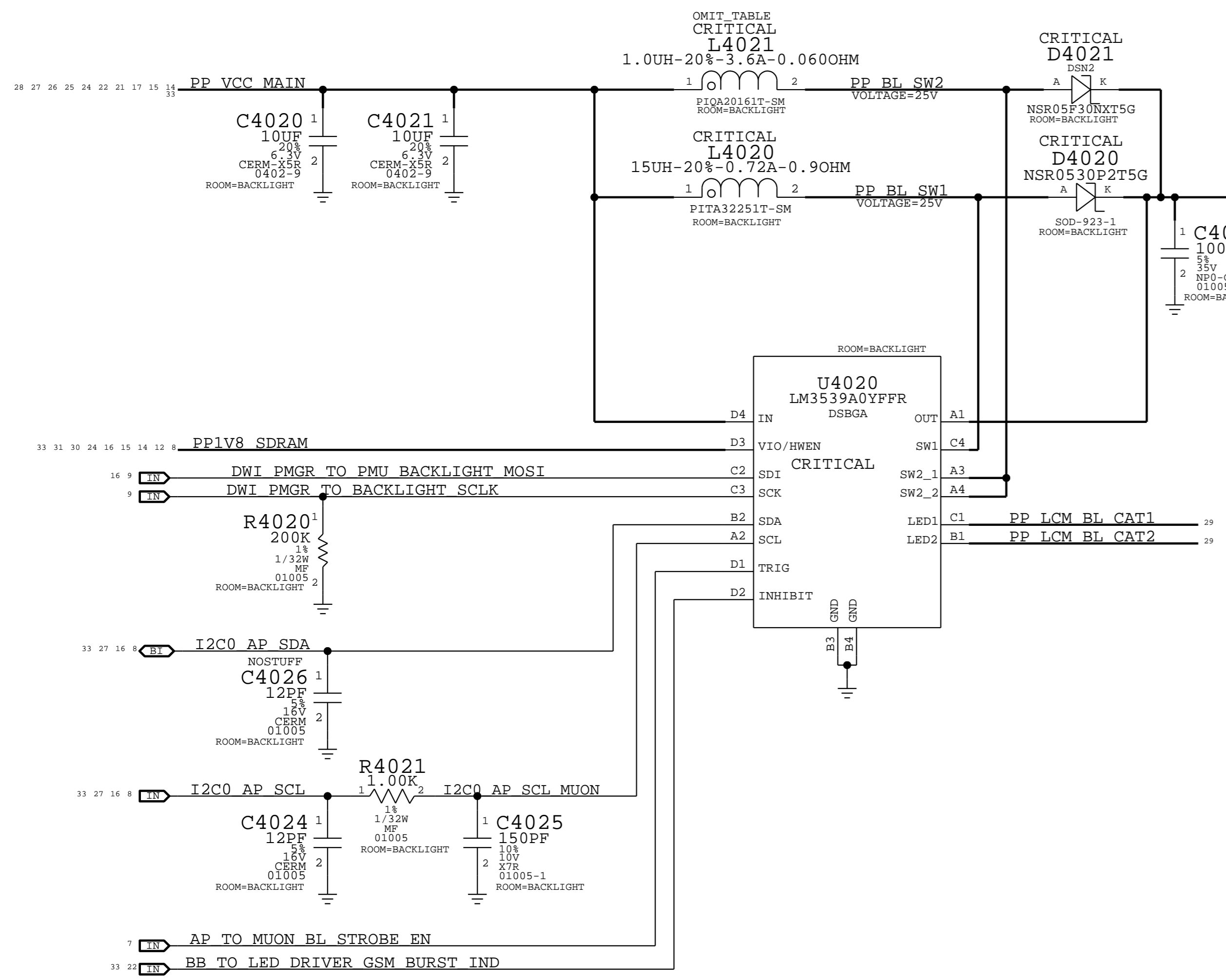
APN: 338S1172



C4001 ADDED FOR ONZ FAILURES CAUSED BY AVVDN

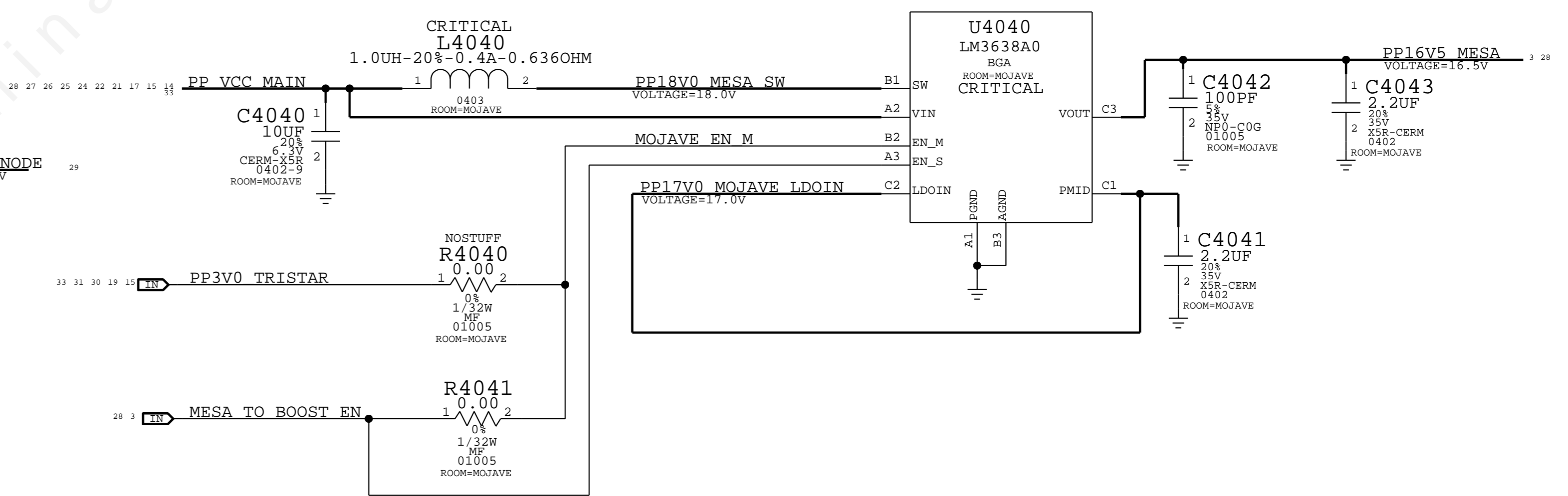
## LED BACKLIGHT DRIVER

APN: 353S00407



## MOJAVE MESA BOOST

APN: 353S00671



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咨询QQ: 1727176051 981775188

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		SHEET	27 OF 59

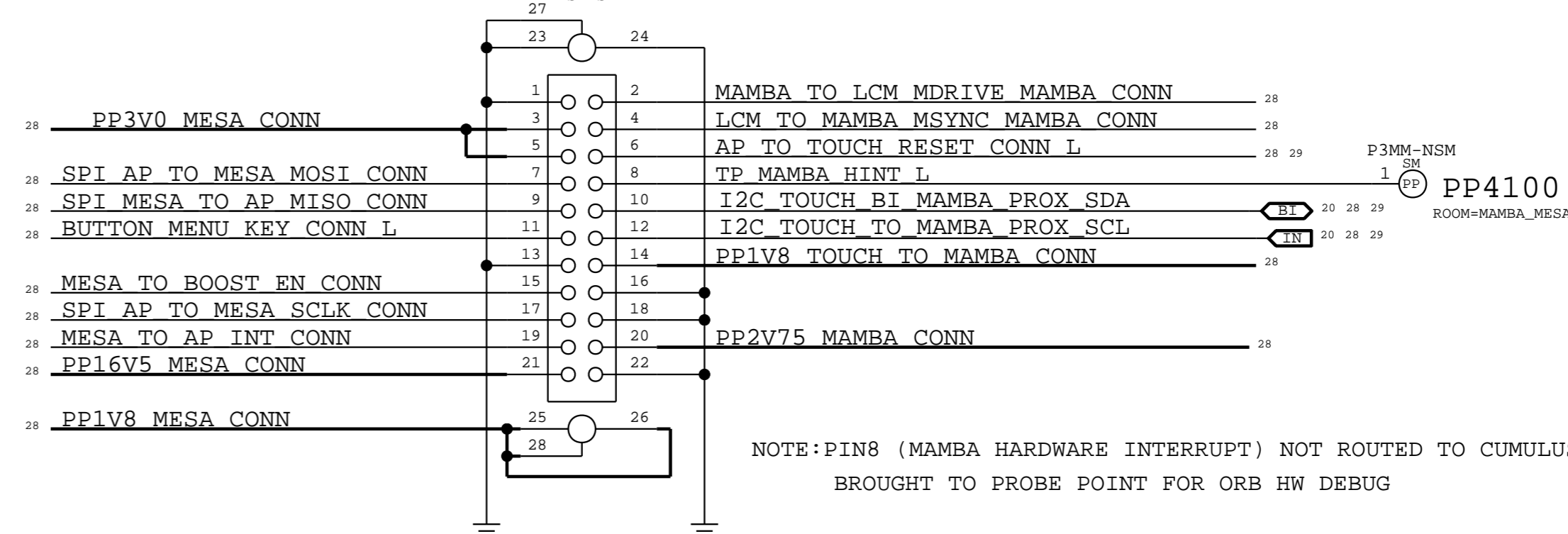
# MAMBA & MESA (M&M) FLEX

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咨询QQ: 1727176051 981775188

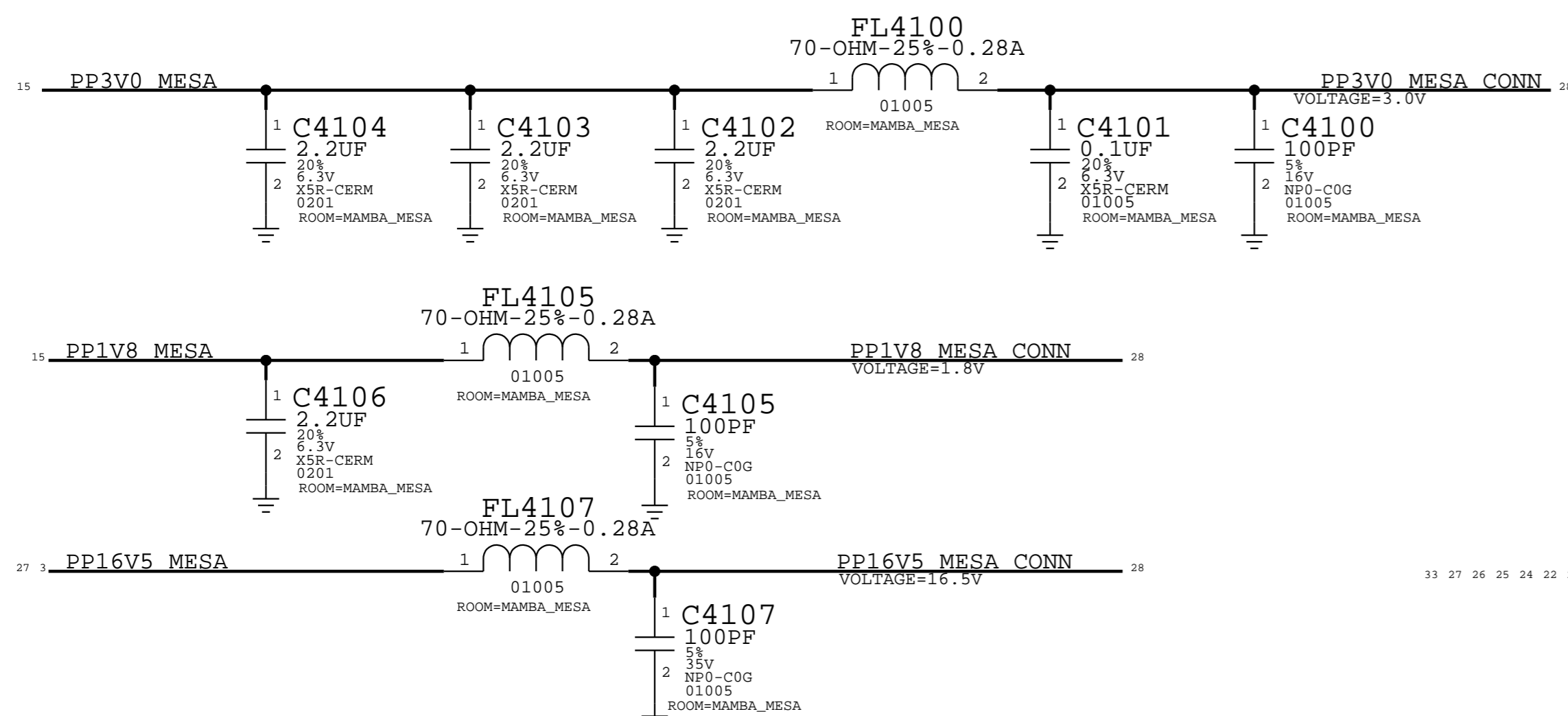
# MAMBA & MESA CONNECTOR

THIS ONE ON MLB ---> 516S00056 (RCPT)  
516S00057 (PLUG)

CRITICAL  
ROOM=MAMBA\_MESA  
J4100  
BB35CRA223A  
F-ST-SM

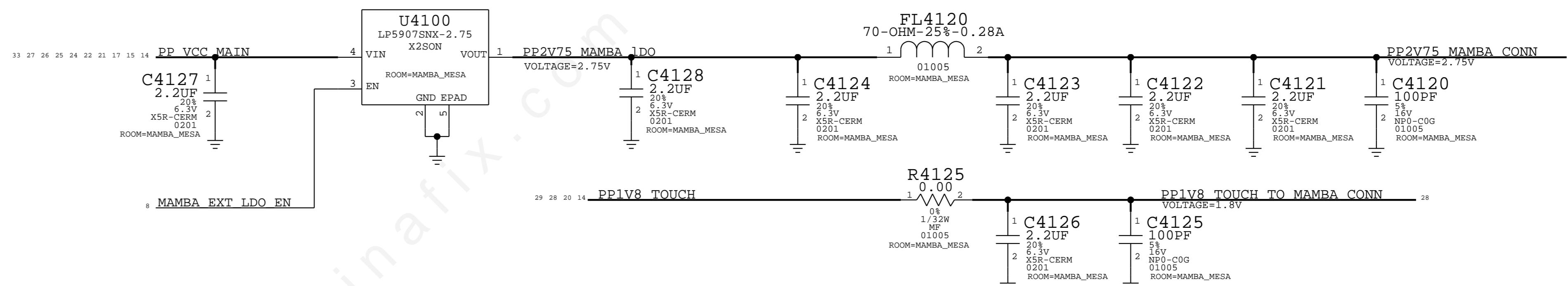


## MESA POWER

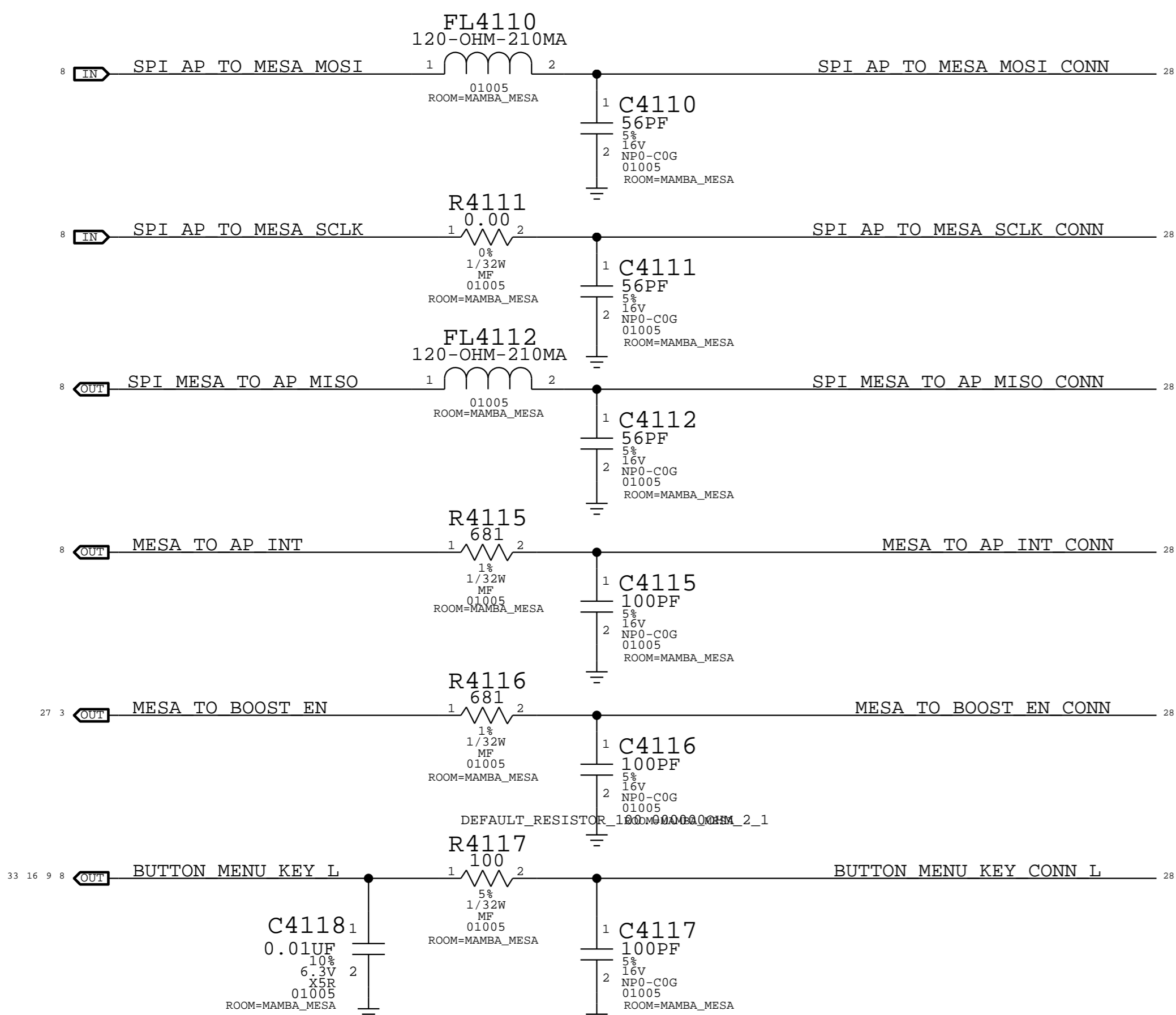


## MAMBA POWER

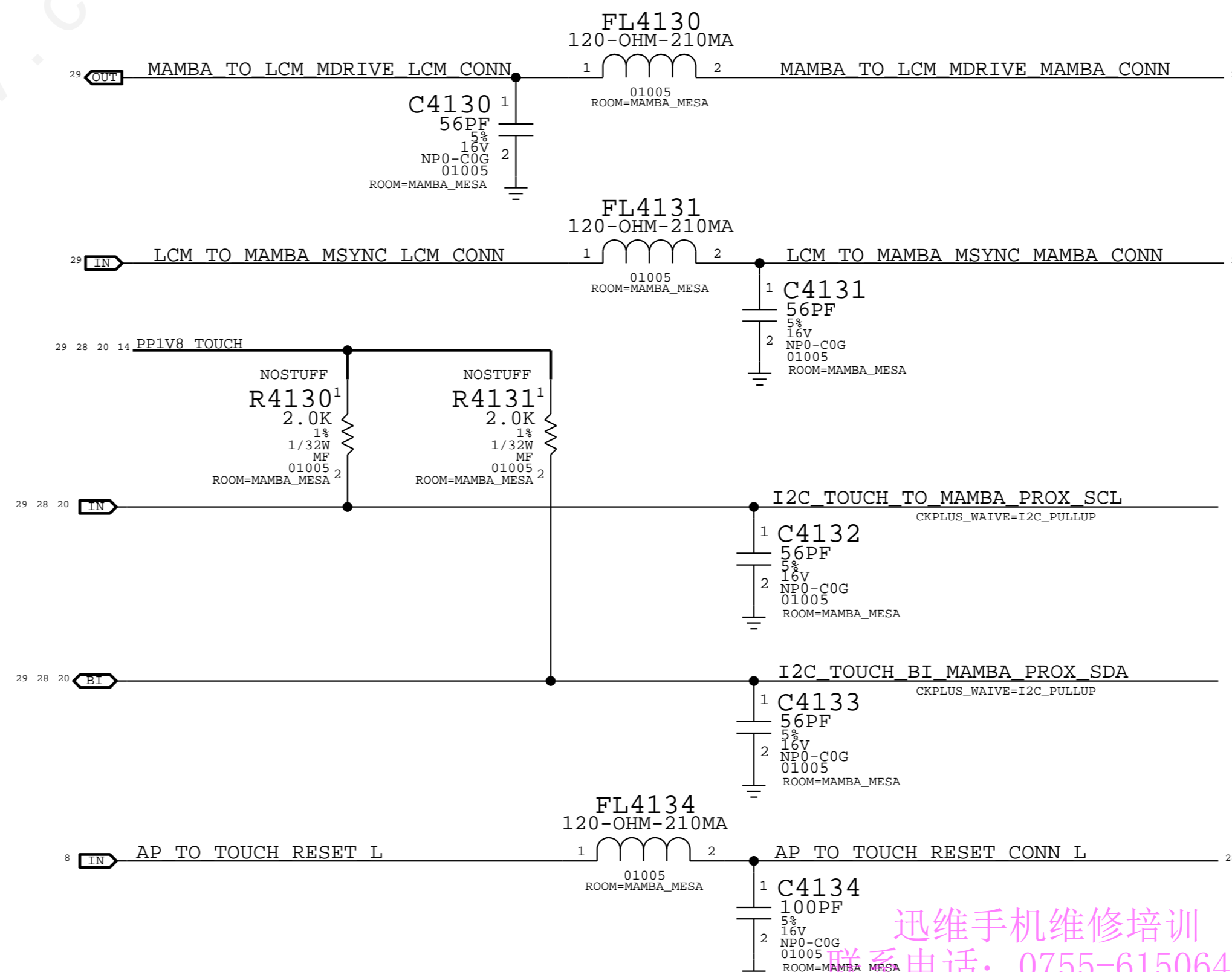
NOTE: OUTPUT IMPEDANCE MUST BE >0.01-OHM  
IN ORDER TO MEET CAP ESR REQUIREMENT PER LDO SPEC.



## MESA DIGITAL I/O



## MAMBA DIGITAL I/O



NOTE: TOUCH I2C PULL-UPS TO PP1V8 TOUCH INSIDE KEPLER  
ADDING R4130, R4131 AS OPTION FOR TWEAKING VALUES.

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PAGE TITLE <b>TOUCH:ORB &amp; MESA B2B</b>			
DRAWING NUMBER 051-1902		SIZE D	
REVISION A.0.0		BRANCH	
PAGE 41 OF 49		SHEET 28 OF 59	
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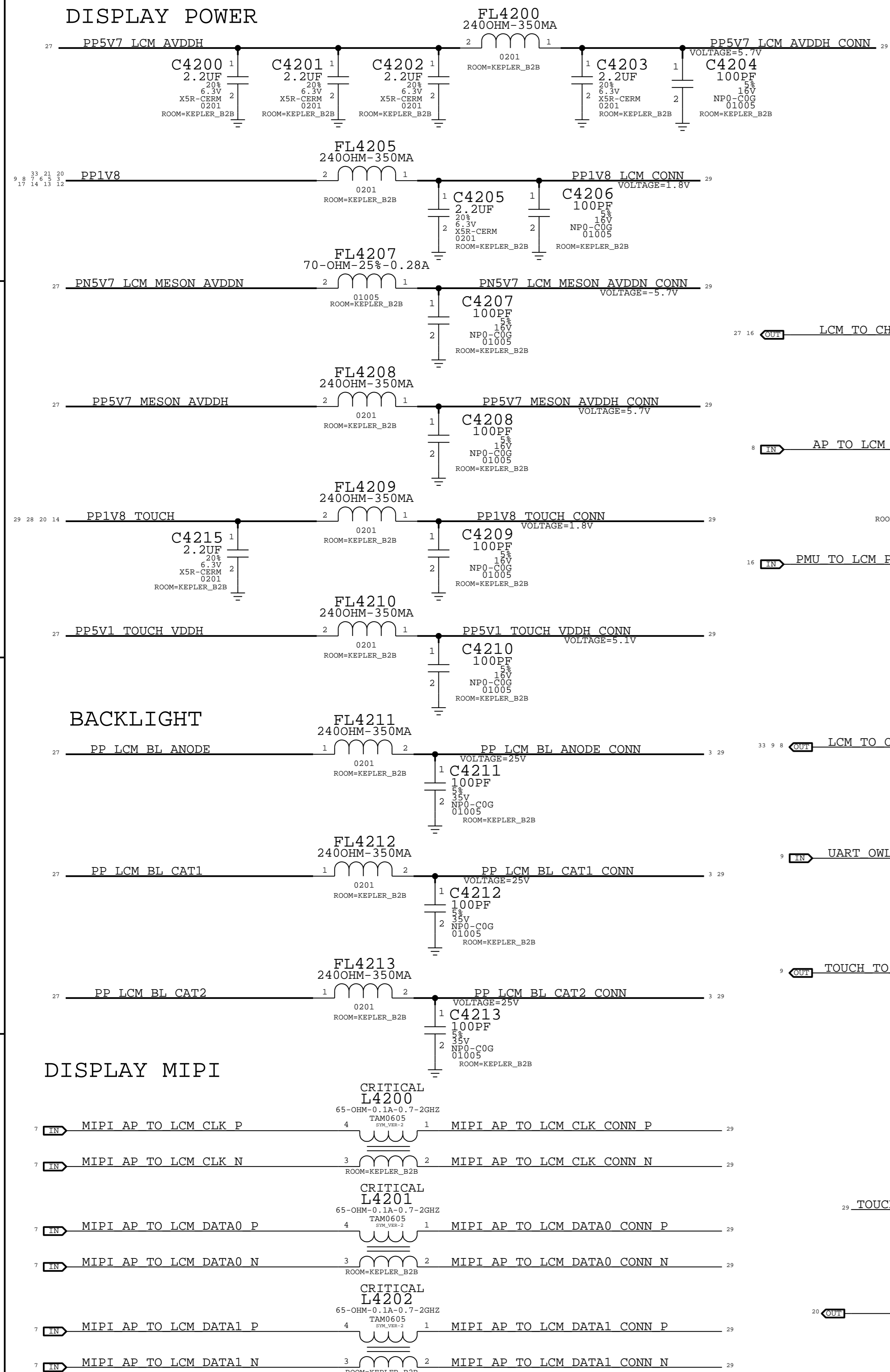
# DISPLAY & TOUCH FLEX

# DISPLAY CONNECTOR

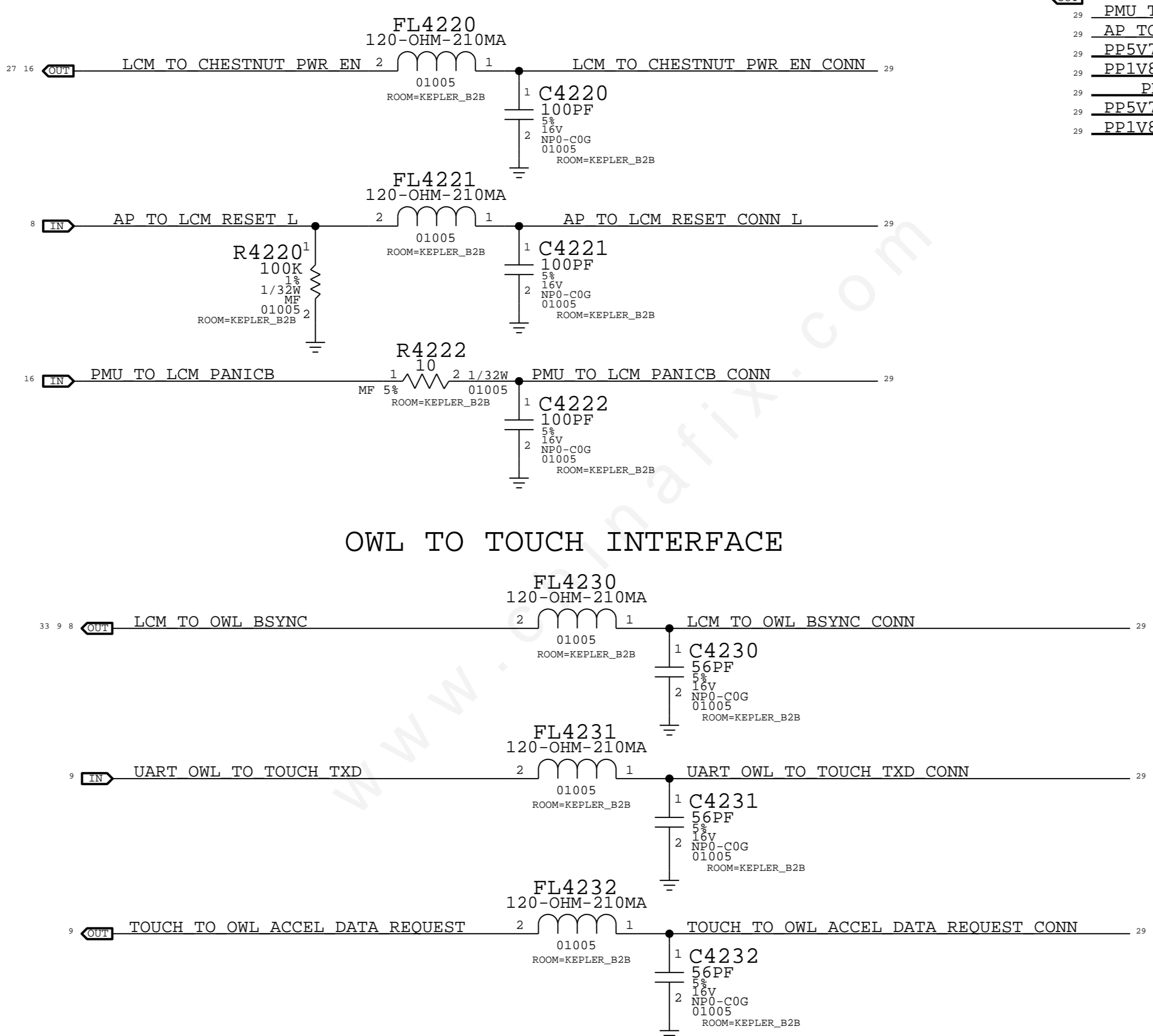
迅维手机维修培训  
 联系电话: 0755-61506416  
 咨询QQ: 1727176051 981775188

THIS ONE ON MLB ---> 516S00038 (RCPT)  
 516S00037 (PLUG)

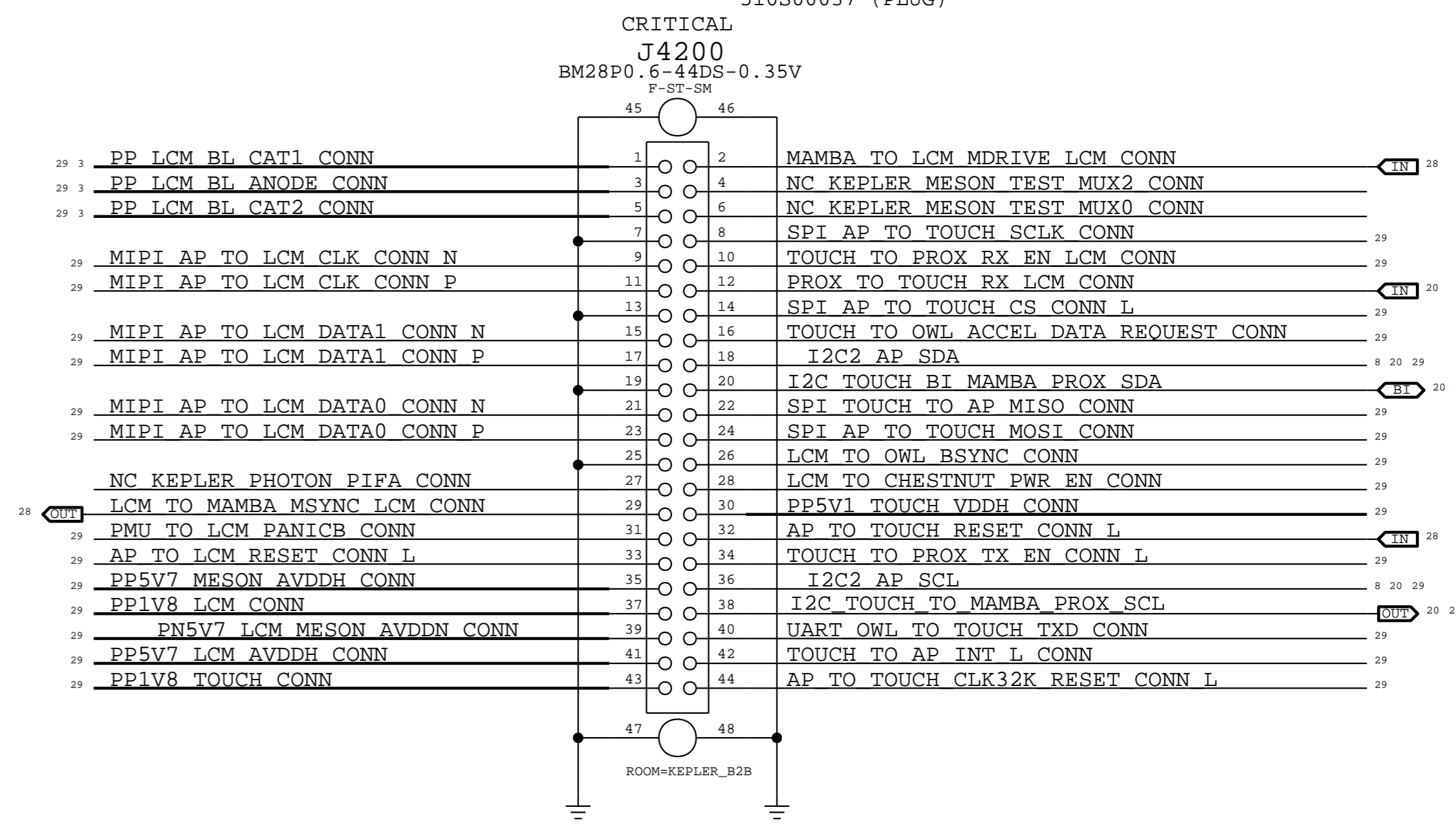
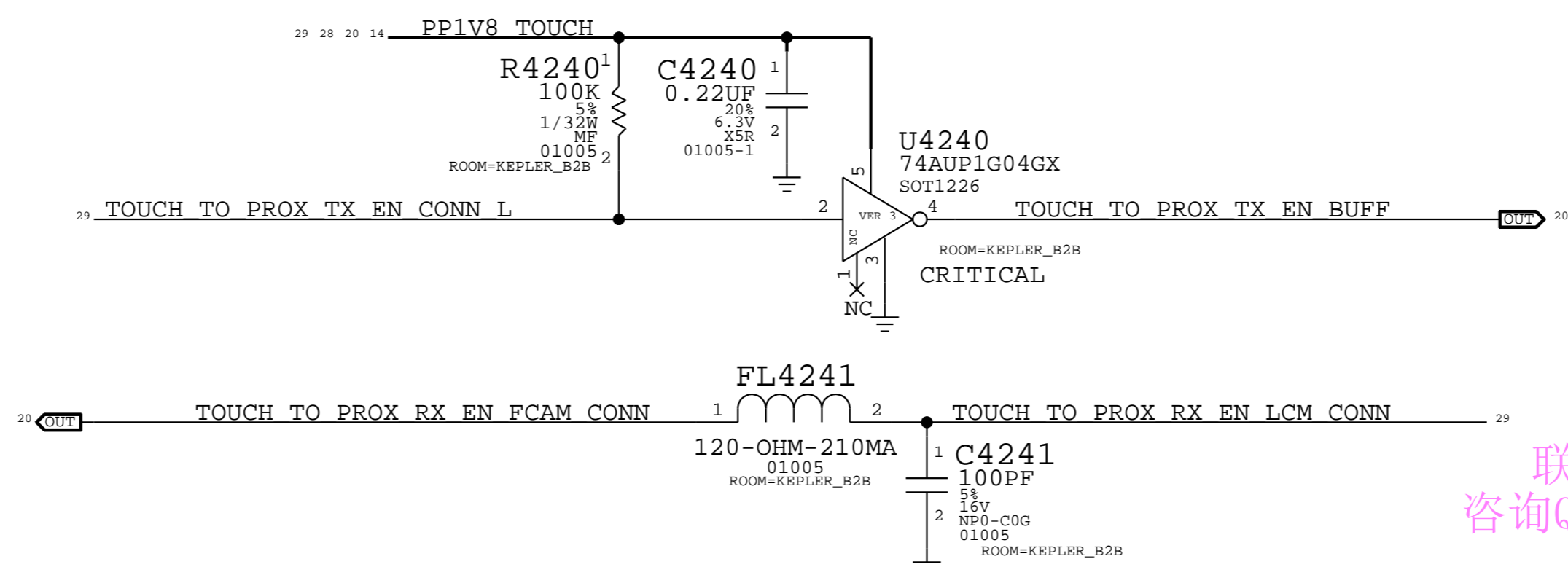
## DISPLAY POWER



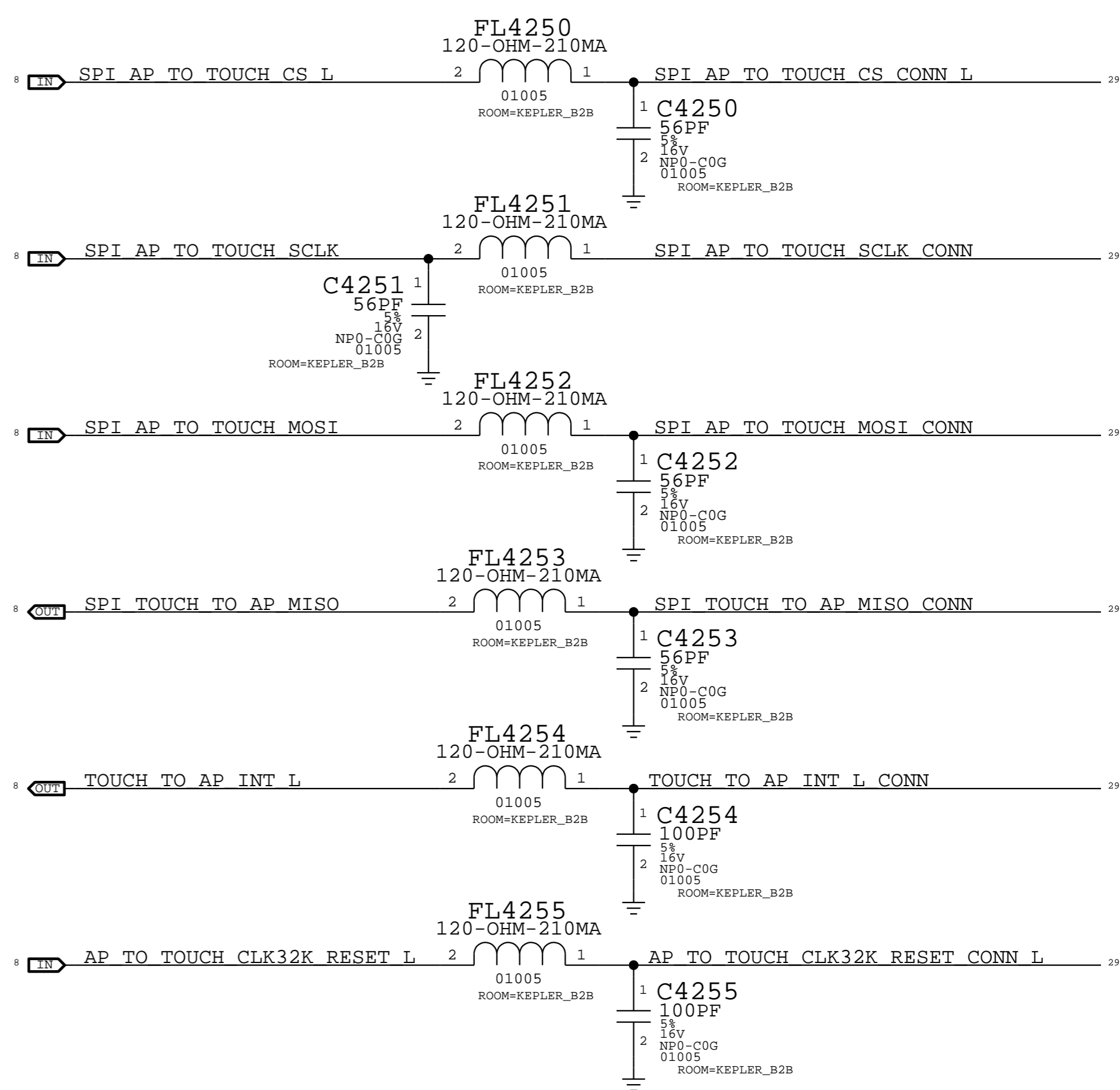
## DISPLAY CONTROL SIGNALS



## PROX TO TOUCH INTERFACE



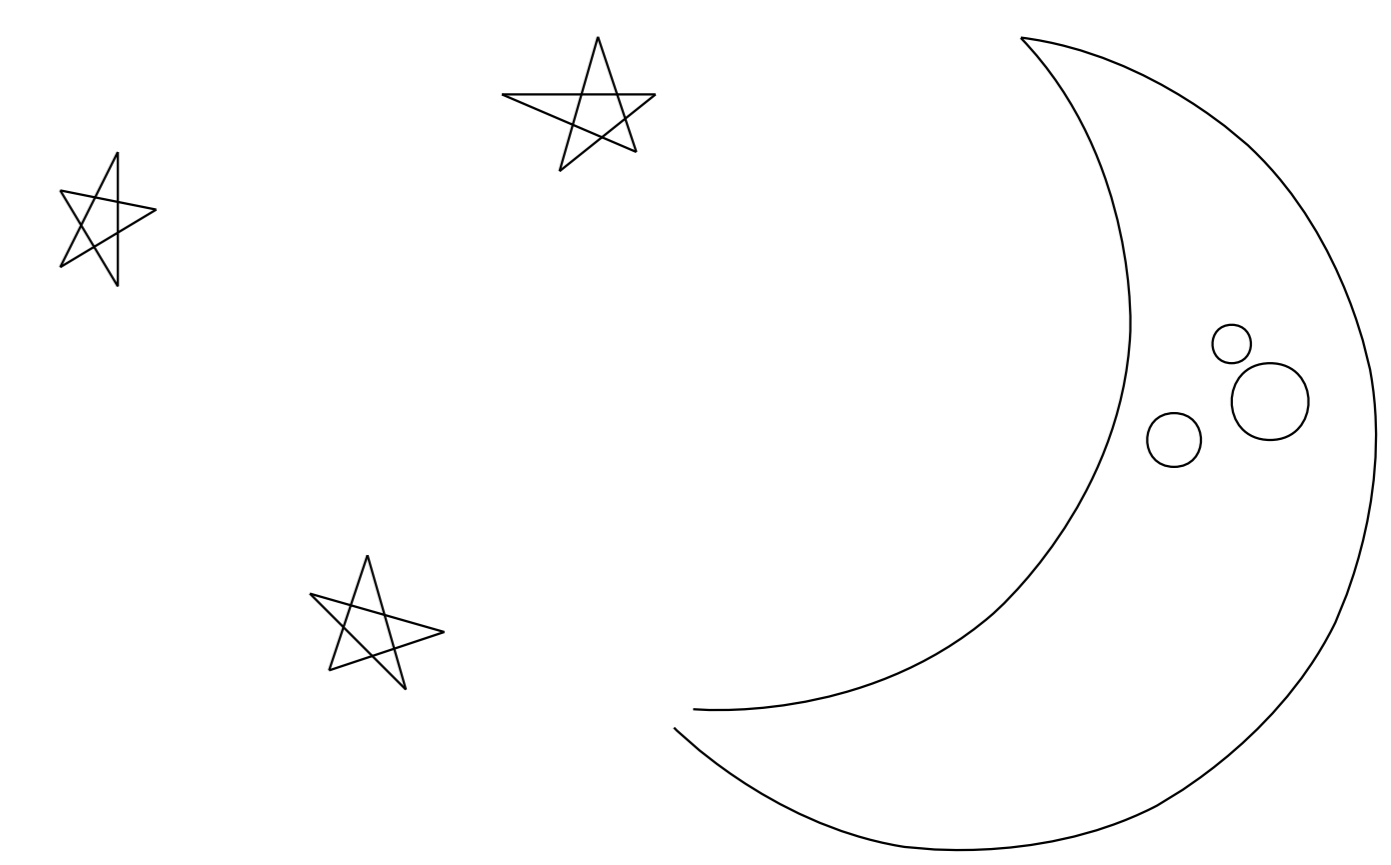
## AP TO TOUCH INTERFACE



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PAGE TITLE			
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Apple Inc.		DRAWING NUMBER	051-1902
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		PAGE	42 OF 49
		SHEET	29 OF 59

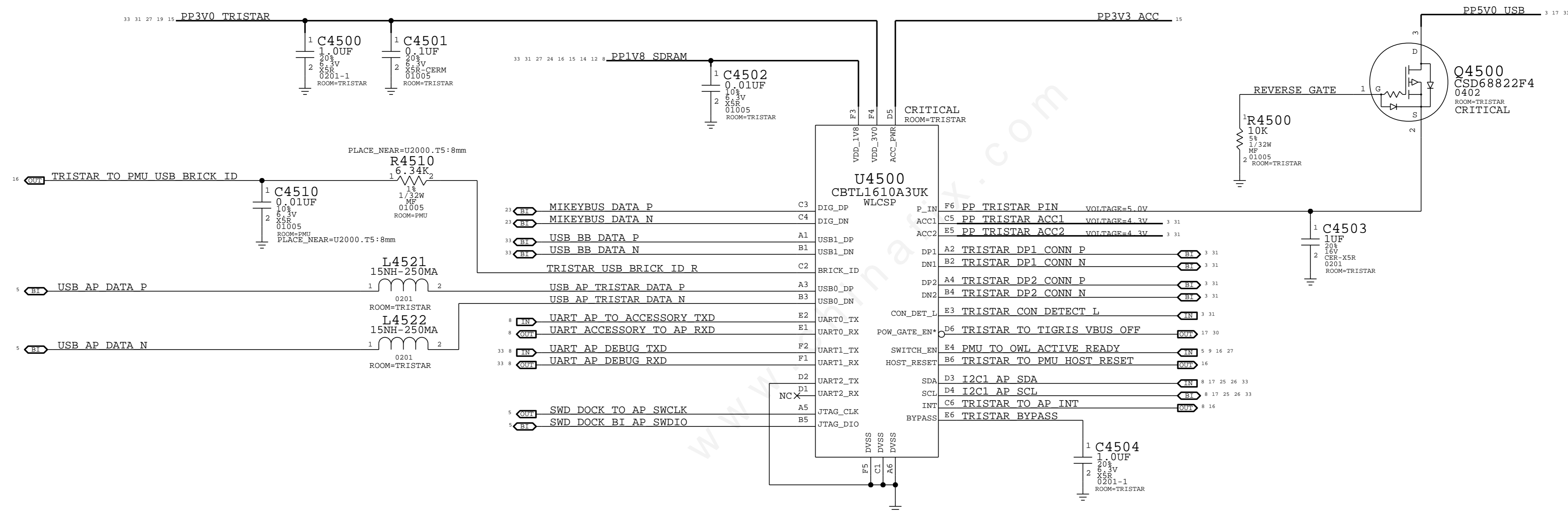
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 联系电话: 0755-61506416  
 咨询QQ: 1727176051 981775188

迅维手机维修培训  
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 咨询QQ: 1727176051 981775188



# TRISTAR 2 (A3)

APN: 343S0695

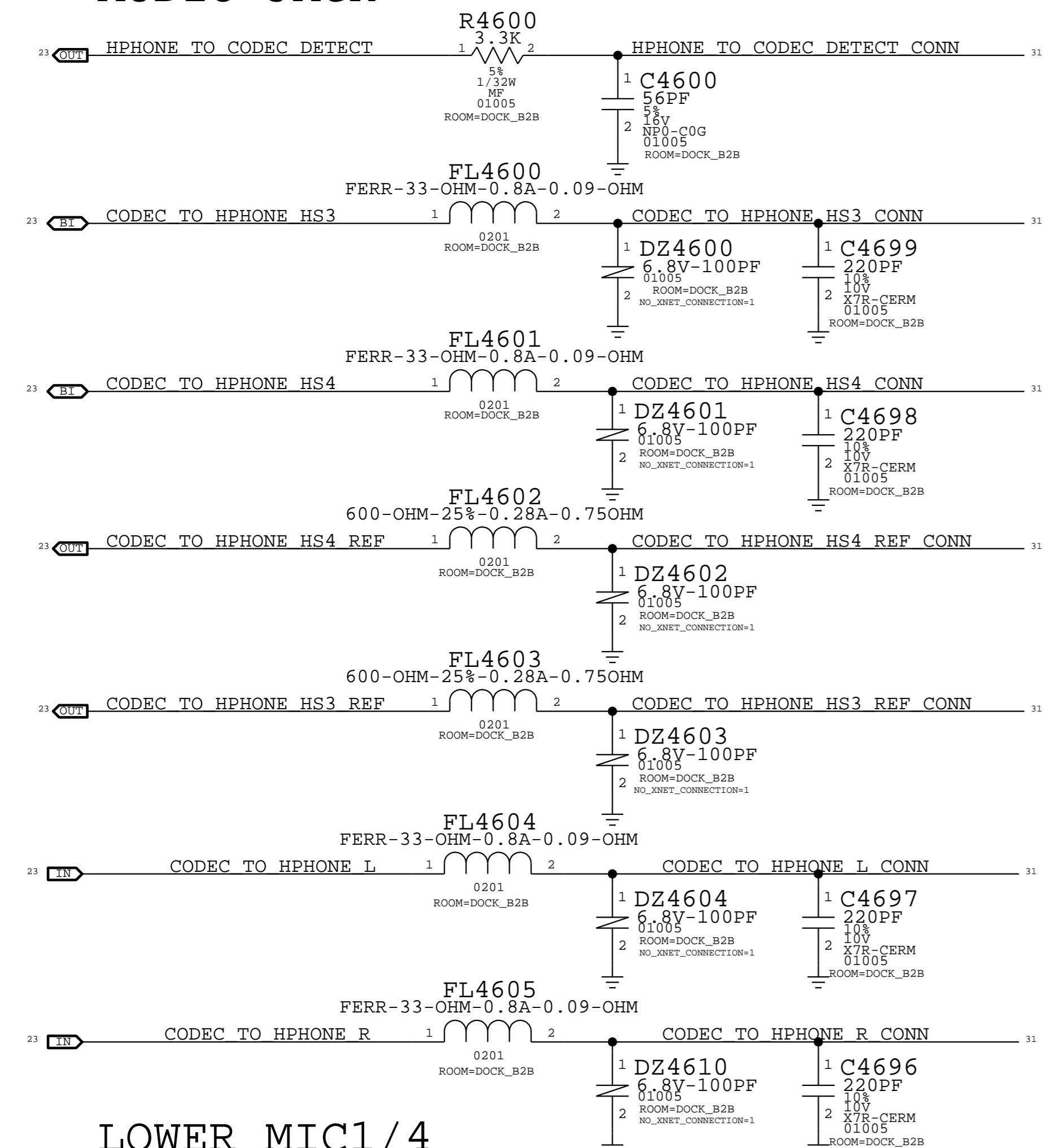


ROOM=TRISTAR  
 P3MM-NSM  
 33 17 TRISTAR TO TIGRIS VBUS OFF 1 PP4500

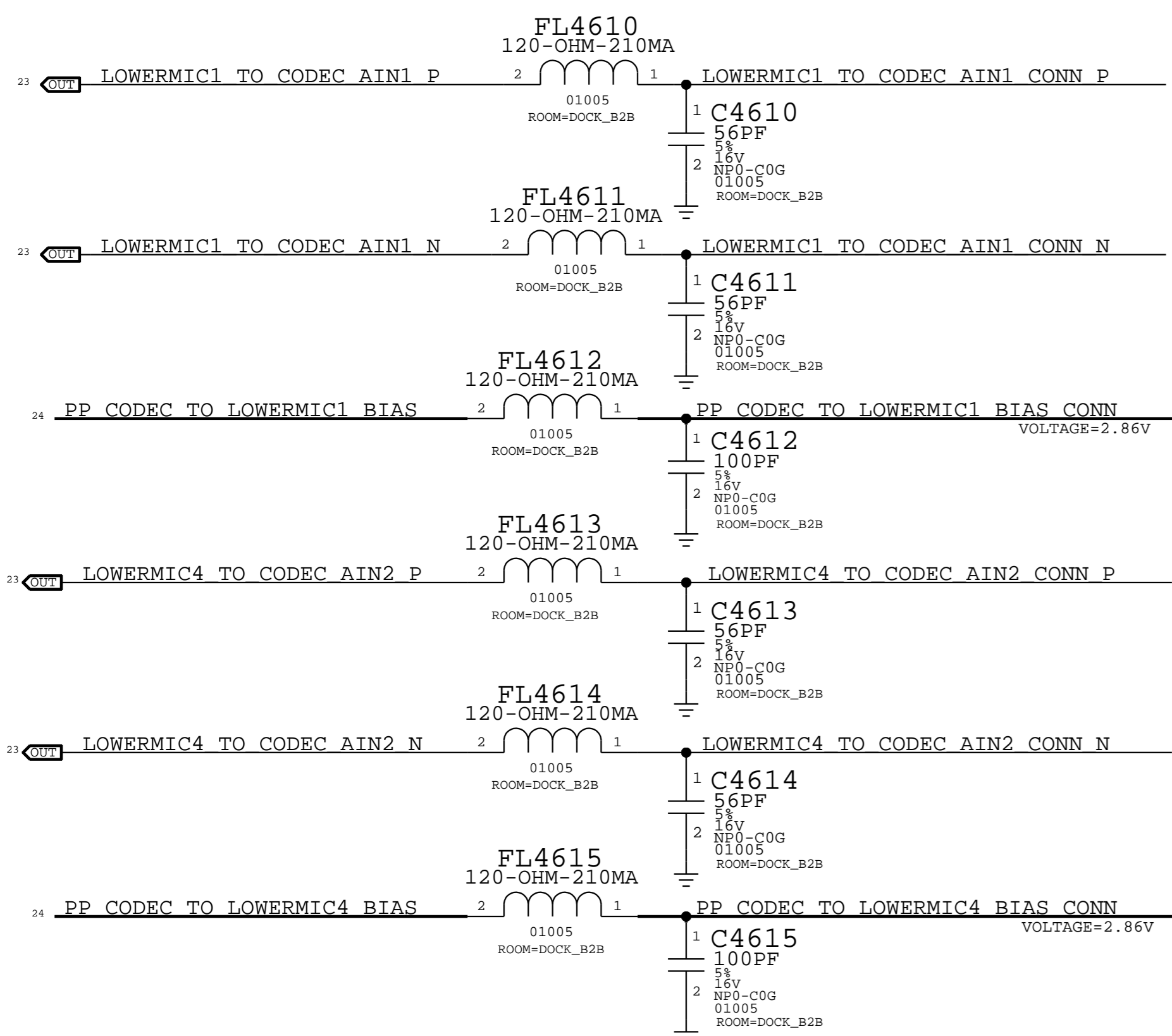
迅维手机维修培训  
 联系电话: 0755-61506416  
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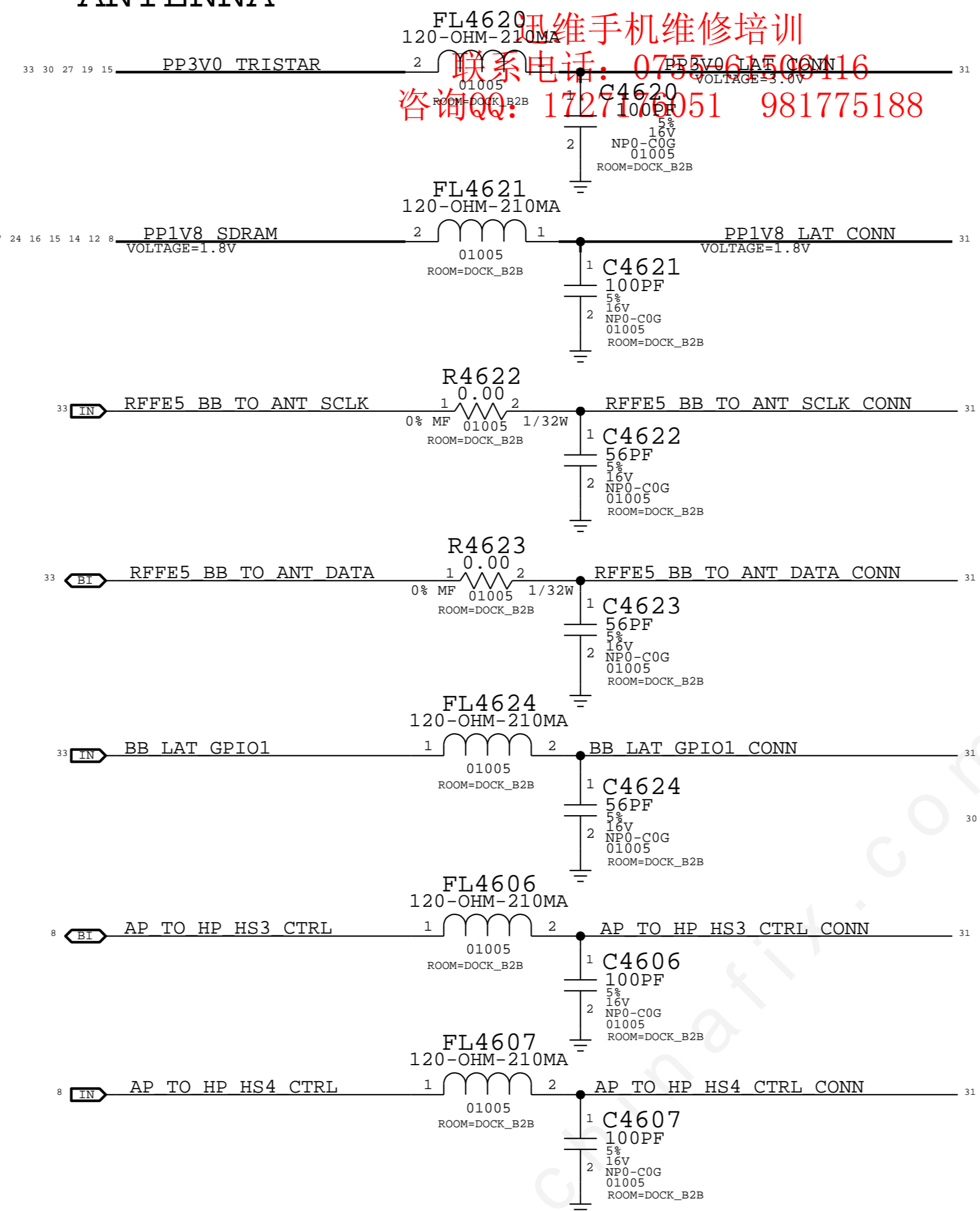
# DOCK FLEX CONNECTOR AUDIO JACK



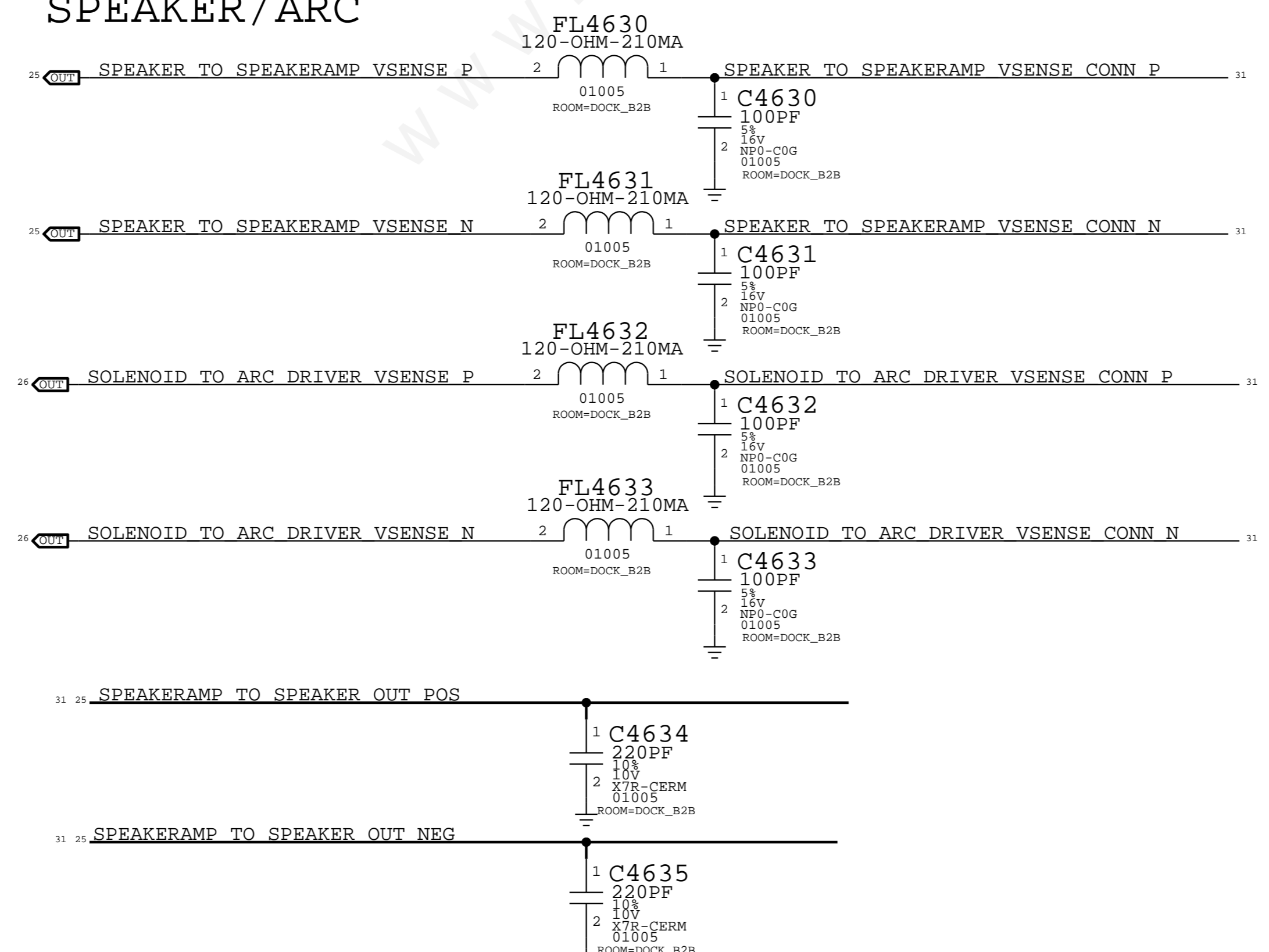
## LOWER MIC1/4



# ANTENNA

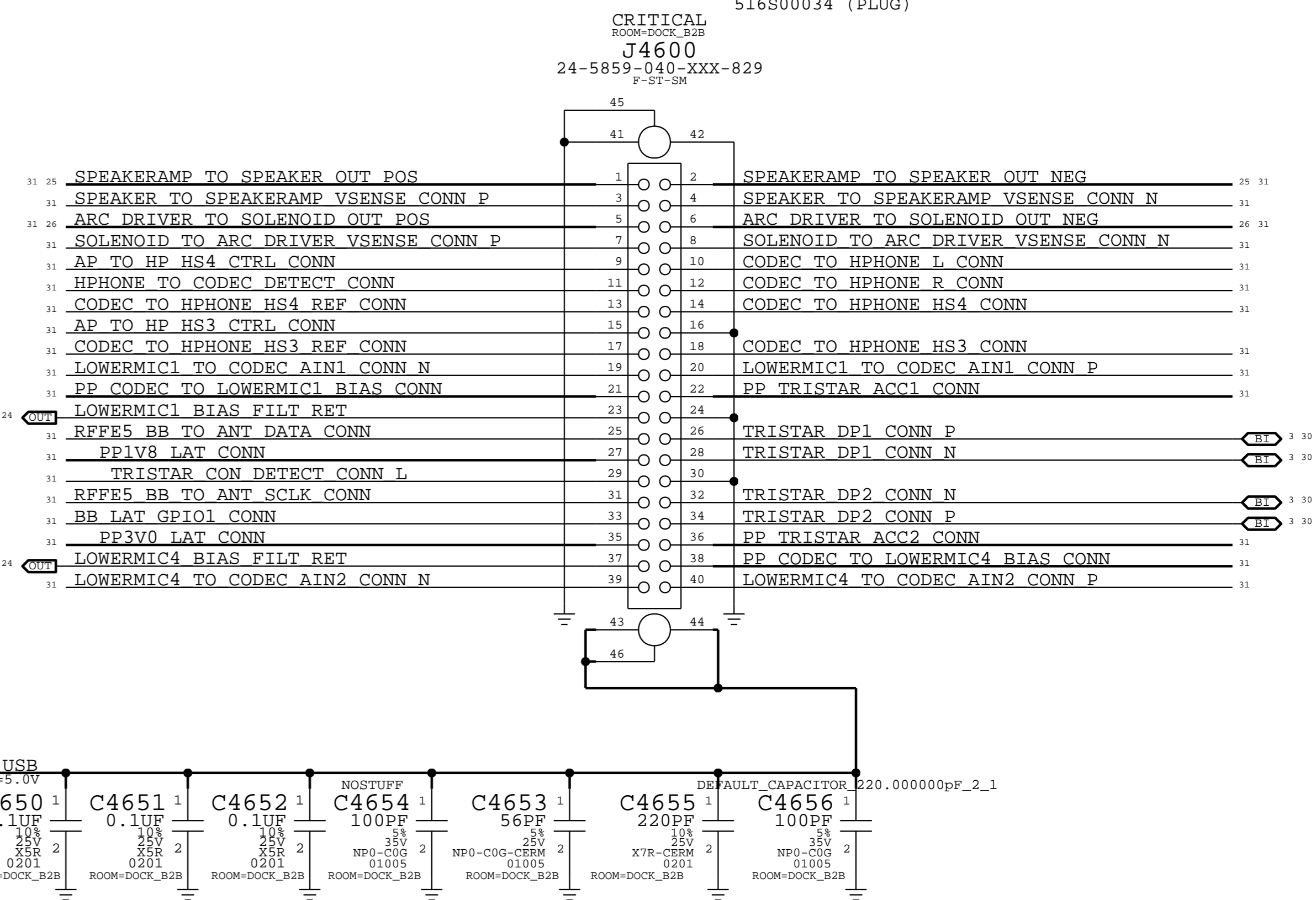


## SPEAKER/ARC

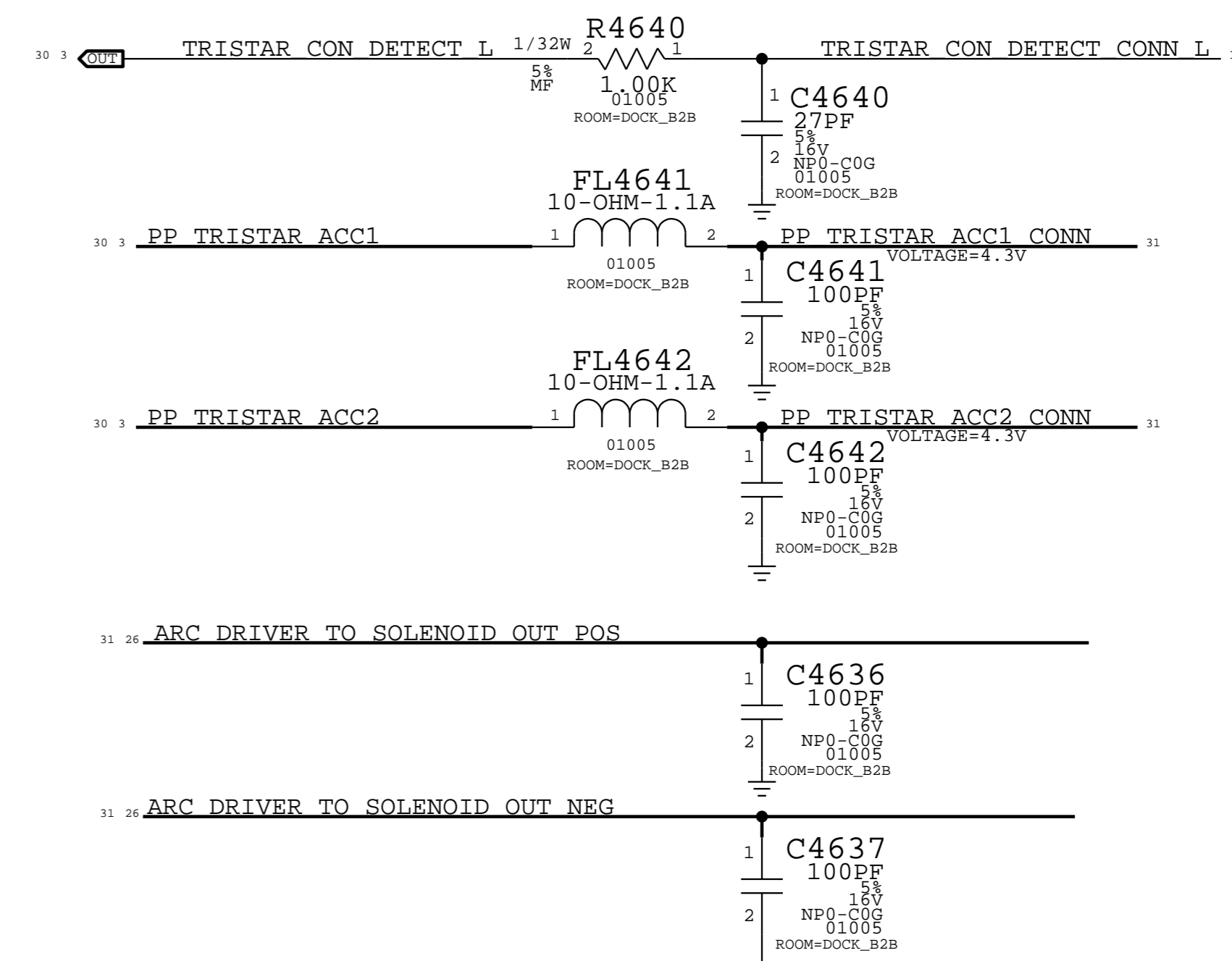


# DOCK FLEX CONNECTOR

THIS ONE ON MLB ---> 516S00033 (RCPT)  
516S00034 (PLUG)



## TRISTAR



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咨询QQ: 172716051 981775188

迅维手机维修培训  
联系电话: 0755-61506416  
咨询QQ: 172716051 981775188

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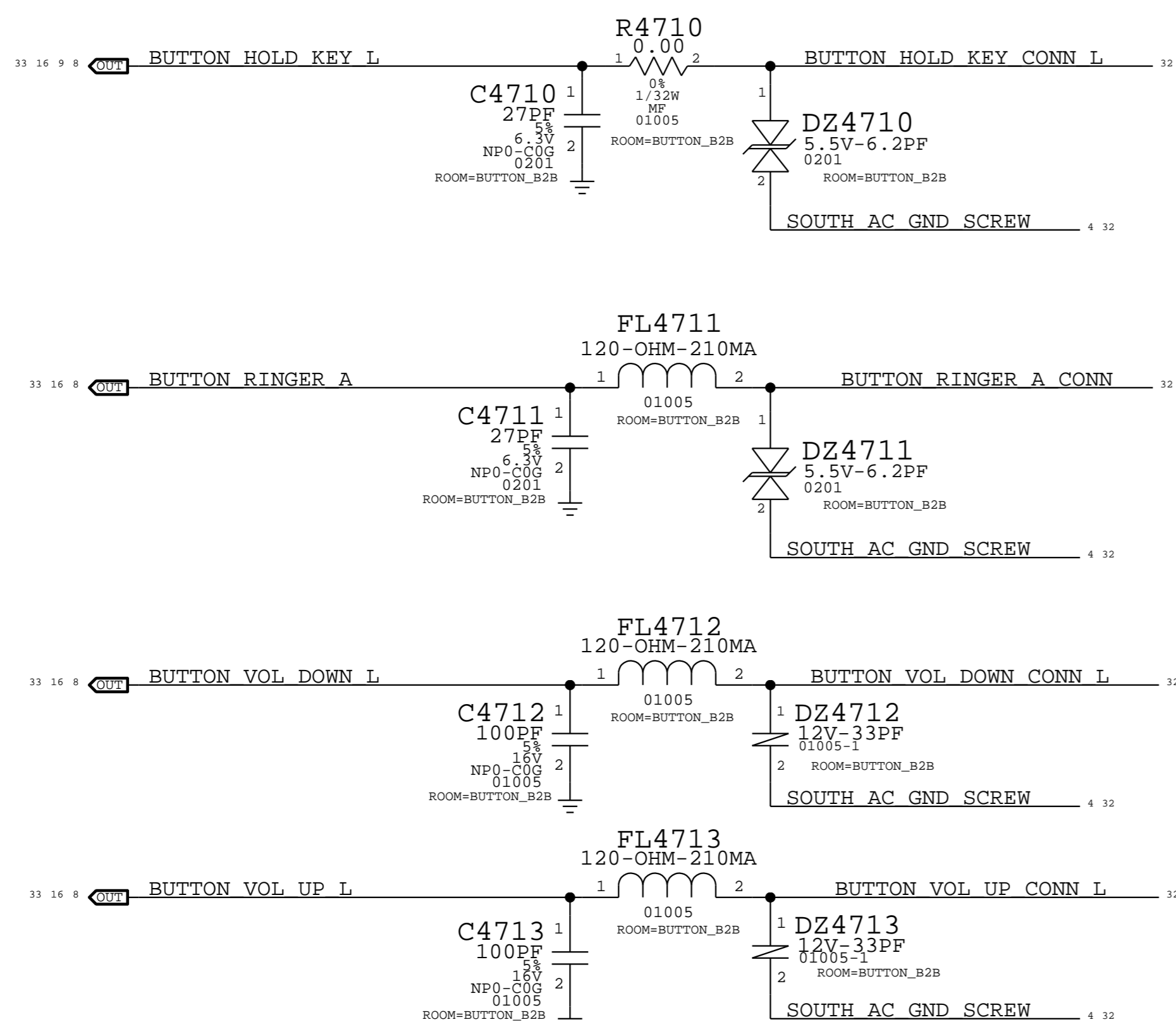
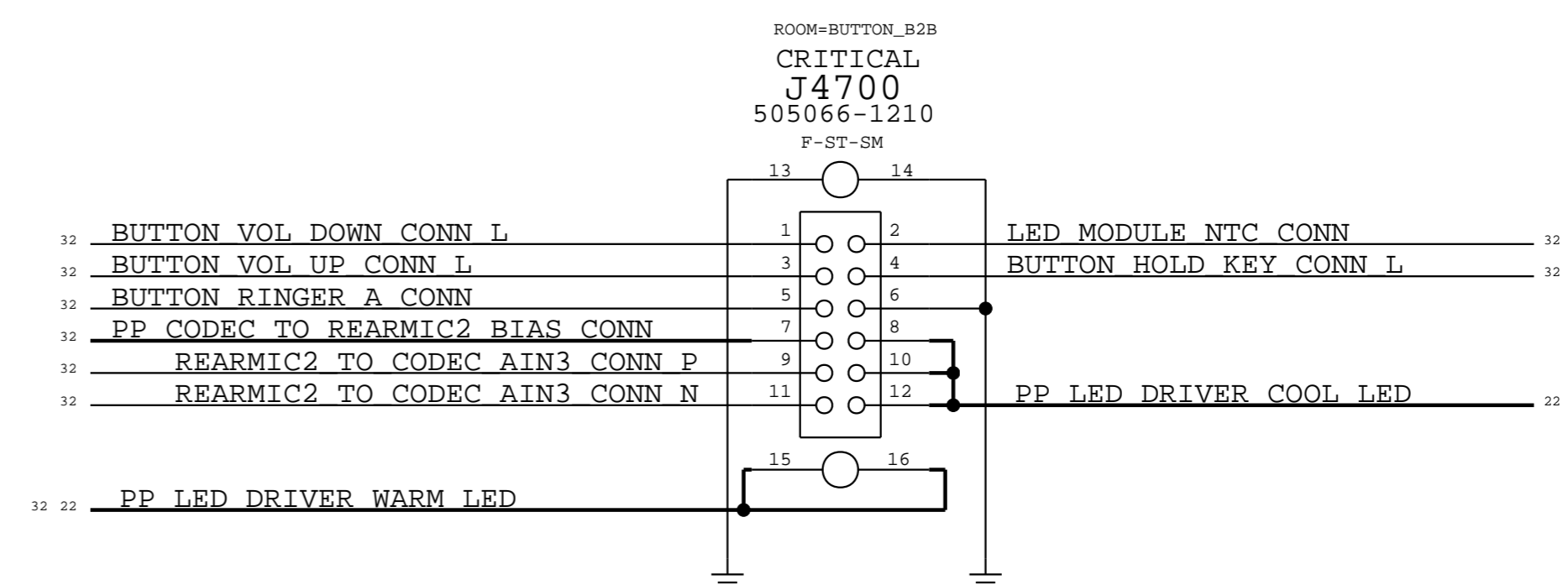
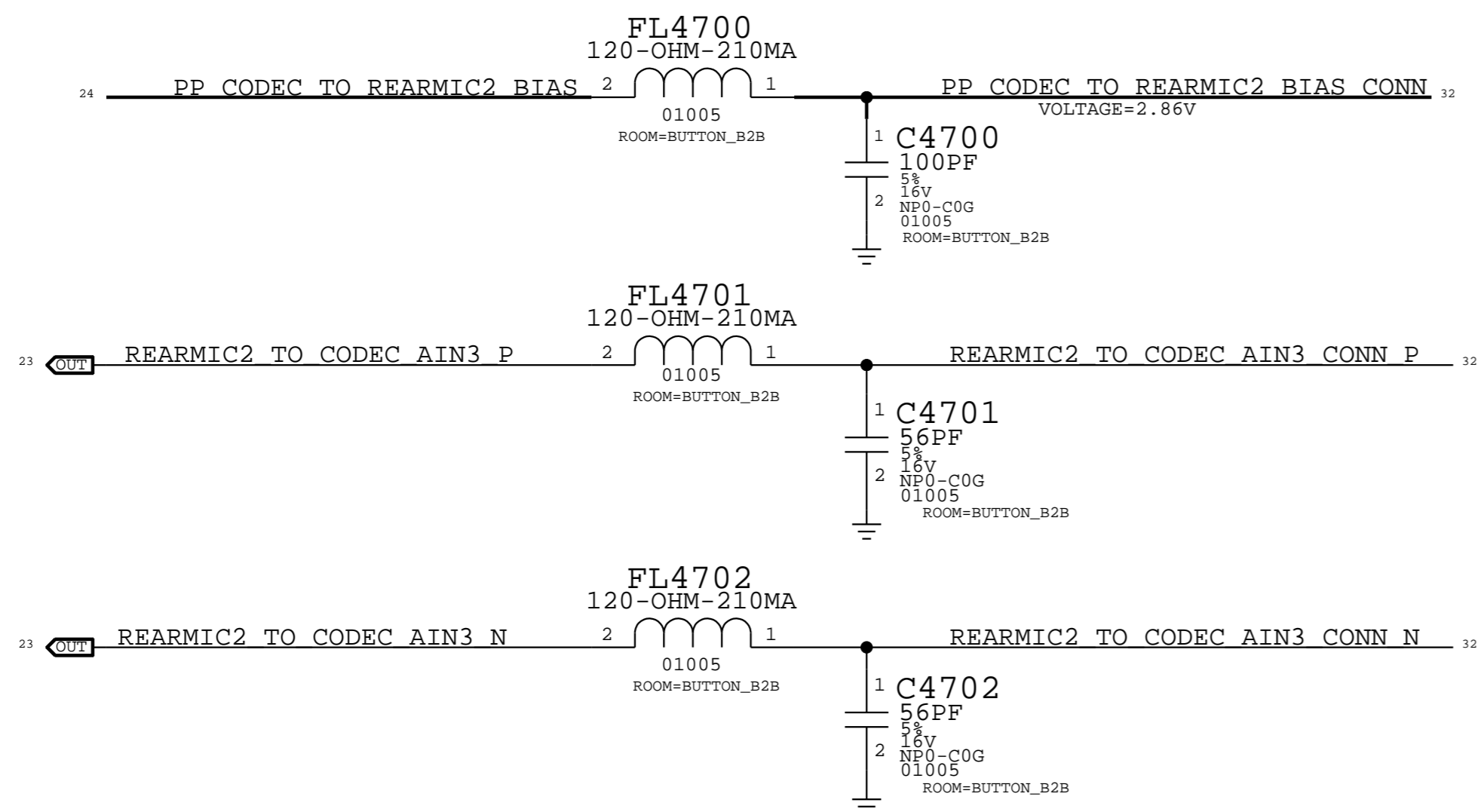
# BUTTON FLEX

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 联系电话: 0755-61506416  
 咨询QQ: 1727176051 981775188

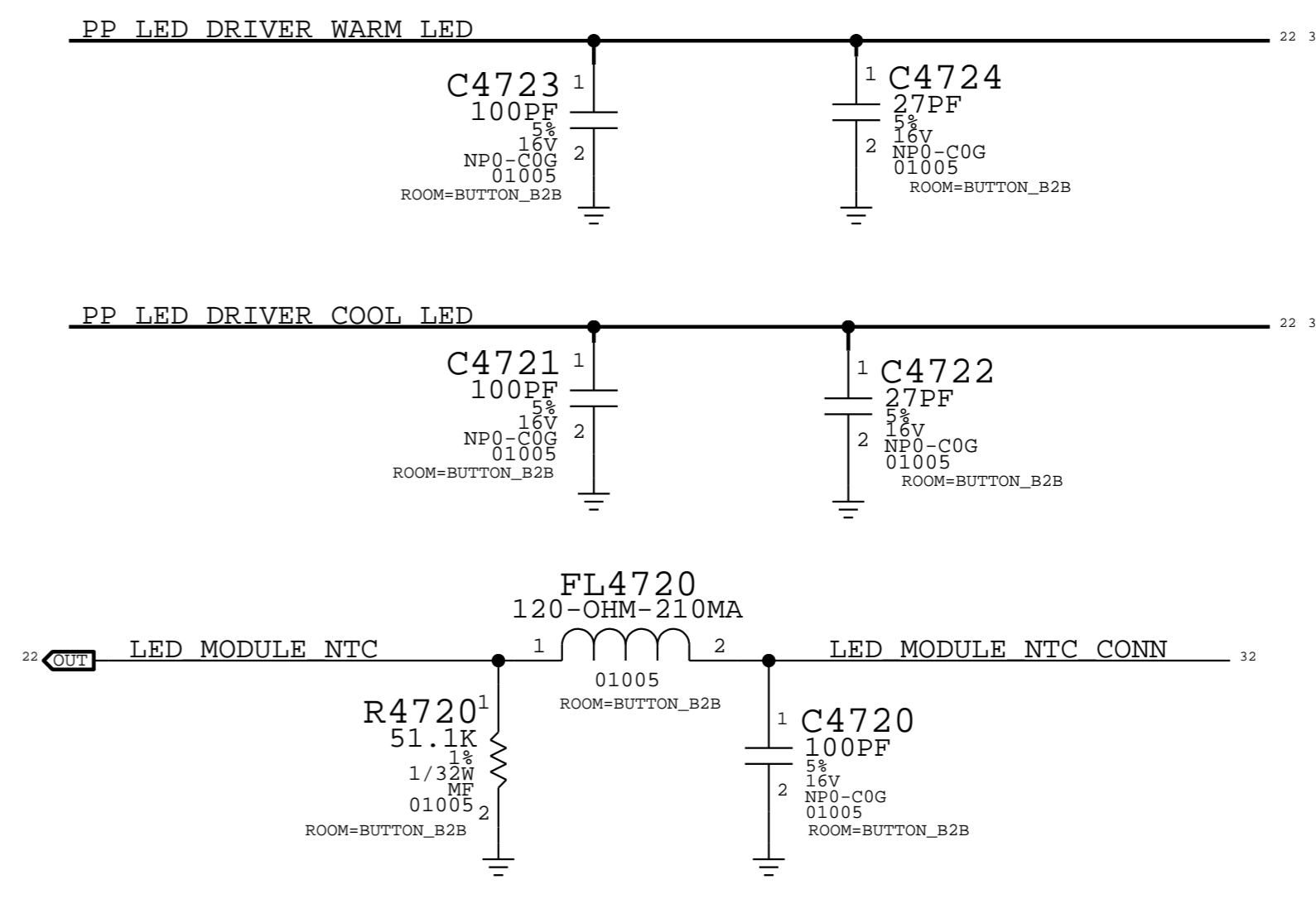
# BUTTON FLEX CONNECTOR

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

MIC2  
 ANC REF MIC



STROBE:  
 WARM LED  
 COOL LED  
 MODULE NTC



BUTTONS:  
 HOLD  
 RINGER  
 VOL UP/DOWN

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 咨询QQ: 1727176051 981775188

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I/O:BUTTON FLEX B2B			
Apple Inc.	DRAWING NUMBER	051-1902	SIZE
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# BASEBAND, WLAN, BT & STOCKHOLM

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28 27 26 25 24 22 21 17 15 14  
31 30 27 19 15  
31 30 27 24 16 15 14 12 8

6	IN	PCIE AP TO BB TXD P											
6	IN	PCIE AP TO BB TXD N											
6	OUT	PCIE BB TO AP RXD P											
6	OUT	PCIE BB TO AP RXD N											
6	IN	PCIE AP TO BB REFCLK P											
6	IN	PCIE AP TO BB REFCLK N											
6	IN	PCIE AP TO BB RESET L											
6	BT	PCIE BB BI AP CLKREQ L											
16	OUT	BB TO PMU PCIE HOST WAKE L											
8	IN	AP TO BB PCIE DEV WAKE											
8	IN	I2S AP TO BB LRCLK											
8	IN	I2S AP TO BB BCLK											
8	IN	I2S AP TO BB DOUT											
8	OUT	I2S BB TO AP DIN											
8	IN	AP TO BB RADIO ON L											
16	IN	PMU TO BB PMIC RESET L											
8	IN	AP TO BB RESET L											
8	OUT	BB TO AP RESET DETECT L											
27	22	OUT	BB TO LED DRIVER GSM BURST IND										
8	IN	AP TO BB MESA UP L											
8	IN	BB TO AP GPS TIME MARK											
8	IN	AP TO BB COREDUMP TRIG											
8	IN	BB IPC GPIO											
29	9	IN	LCM TO OWL BSYNC										
9	IN	UART OWL TO BB TXD											
9	OUT	UART BB TO OWL RXD											
30	BT	USB BB DATA P											
30	BT	USB BB DATA N											
16	IN	PMU TO BB USB VBUS DETECT											
13	9	IN	SWD AP PERIPHERAL SWCLK										
9	BT	SWD AP BI BB SWDIO											
31	OUT	RFFE5 BB TO ANT SCLK											
31	BT	RFFE5 BB TO ANT DATA											
31	OUT	BB LAT GPIO1											
16	OUT	BB TO PMU AMUX LD011 SIM1											
16	OUT	BB TO PMU AMUX SMPS1											
16	OUT	BB TO PMU AMUX SMPS3											
16	OUT	BB TO PMU AMUX SMPS4											
4	OUT	50 AP UAT FEED											
4	OUT	50 AP WIFI 5G CONN ANT											
4	OUT	AP TO STOCKHOLM ANT											
21	20	17	14	13	12	9	8	7	6	5	3	2	1
8	IN	PP1V8											
8	IN	DFU STATUS											
8	OUT	FORCE DFU											
8	IN	NC PMU AMUX AY											
8	IN	NC PMU AMUX BY											
16	9	5	3	OUT	PMU TO SYSTEM COLD RESET L								
27	16	8	BT	I2C0 AP SCL									
27	16	8	BT	I2C0 AP SDA									
30	26	25	17	8	BT	I2C1 AP SCL							
30	26	25	17	8	BT	I2C1 AP SDA							
32	16	9	8	OUT	BUTTON HOLD KEY L								
28	16	9	8	OUT	BUTTON MENU KEY L								
32	16	8	OUT	BUTTON RINGER A									
32	16	8	OUT	BUTTON VOL DOWN L									
32	16	8	OUT	BUTTON VOL UP L									
32	16	8	OUT	NC PMU GPIO20									
32	16	8	OUT	NC PMU GPIO21									
30	8	IN	UART AP DEBUG TXD										
30	8	OUT	UART AP DEBUG RXD										
30	8	OUT	NC AP RESERVED2										

MIS-NAMED NET. GPS\_TIME\_MARK ACTUALLY GOES FROM AP TO BB.

RADIO_MLB_MIMO	
SHARED POWER	
PP_VCC_MAIN	PP3V0_TRISTAR SUBDESIGN_SUFFIX=RF
PP3V0_TRISTAR	
PP1V8_SDRAM	
BASEBAND	
WLAN	
PCIE0_AP_TO_BB_TXD_P	PCIE0_AP_TO_BB_TXD_N
PCIE0_BB_TO_AP_RXD_P	PCIE0_BB_TO_AP_RXD_N
PCIE0_AP_TO_BB_REFCLK_P	PCIE0_AP_TO_BB_REFCLK_N
PCIE0_AP_TO_BB_PERST_L	PCIE0_AP_TO_BB_CLKREQ_L
PCIE0_BB_TO_PMU_HOST_WAKE_L	PCIE0_BB_TO_PMU_HOST_WAKE_N
PCIE0_AP_TO_BB_DEV_WAKE	
I2S_AP_TO_BB_WS	I2S_AP_TO_BB_CLK
I2S_AP_TO_BB_TX	I2S_BB_TO_AP_TX
AP_TO_BBPMU_RADIO_ON_L	AP_TO_BBPMU_RESET_L
AP_TO_BB_RST_L	
BB_TO_AP_RESET_DET_L	BB_TO_AP_GSM_TXBURST_IND
AP_TO_BB_MESA_ON_L	BB_TO_AP_GPS_TIME_MARK
AP_TO_BB_COREDUMP_TRIG	AP_TO_BB_IPC_GPIO
AP_TO_BB_IPC_GPIO	TOUCH_TO_BBPMU_FORCE_PWM
UART0_OWL_TO_BB_TX	UART0_BB_TO_OWL_TX
USB_BB_P	USB_BB_N
USB_BB_VBUS_DETECT	
SWD_CLK_BB_JTAG_TCK	SWD_IO_BB_JTAG_TMS
75_RFFE5_SCLK_BB	75_RFFE5_SDATA_BB
RFFE_BUFFER_LAT_GPIO1	
BB_TO_PMU_AMUX_LD011_SIM1	BB_TO_PMU_AMUX_SMPS1
BB_TO_PMU_AMUX_SMPS3	BB_TO_PMU_AMUX_SMPS4
50_UPPER_ANT_FEED	50_WIFI_5G_CONN_ANT
STOCKHOLM_ANT	
PP1V8	DFU_STATUS
FORCE_DFU	PMU_AMUX_AY
PMU_AMUX_BY	PMU_TO_SYSTEM_COLD_RESET_L
I2C0_AP_SCL	I2C0_AP_SDA
I2C1_AP_SCL	I2C1_AP_SDA
BUTTON_HOLD_KEY_L	BUTTON_MENU_KEY_L
BUTTON_RINGER_A	BUTTON_VOL_DOWN_L
BUTTON_VOL_UP_L	PMU_GPIO20
PMU_GPIO21	
AP_RESERVED0	AP_RESERVED1
AP_RESERVED2	

WLAN	
PCIE_AP_TO_WLAN_TX_P	PCIE_AP_TO_WLAN_TX_N
PCIE_WLAN_TO_AP_RXD_P	PCIE_WLAN_TO_AP_RXD_N
PCIE_AP_TO_WLAN_REFCLK_P	PCIE_AP_TO_WLAN_REFCLK_N
PCIE_AP_TO_WLAN_PERST_L	
PCIE_AP_TO_WLAN_DEV_WAKE	PCIE_WLAN_TO_AP_CLKREQ_L
UART4_AP_TO_WLAN_TX	UART4_AP_TO_WLAN_RTS_L
UART4_WLAN_TO_AP_TX	UART4_WLAN_TO_AP_RTS_L
PMU_TO_WLAN_CLK32K	PMU_TO_WLAN_REG_ON
WLAN_TO_PMU_HOST_WAKE	OWL_TO_WLAN_CONTEXT_A
OWL_TO_WLAN_CONTEXT_B	
BLUETOOTH	
I2S_AP_TO_BT_LRCLK	I2S_AP_TO_BT_BCLK
I2S_AP_TO_BT_DOUT	I2S_BT_TO_AP_DIN
UART1_AP_TO_BT_TX	UART1_AP_TO_BT_RTS_L
UART1_BT_TO_AP_TX	UART1_BT_TO_AP_RTS_L
PMU_TO_BT_REG_ON	BT_TO_PMU_HOST_WAKE
BT_TO_PMU_HOST_WAKE	AP_TO_BT_WAKE
STOCKHOLM	
UART3_AP_TO_STOCKHOLM_TXD	UART3_AP_TO_STOCKHOLM_RTS_L
UART3_STOCKHOLM_TO_AP_TXD	UART3_STOCKHOLM_TO_AP_RTS_L
PMU_TO_STOCKHOLM_EN	STOCKHOLM_TO_PMU_HOST_WAKE
AP_TO_STOCKHOLM_DEV_WAKE	AP_TO_STOCKHOLM_FW_DWLD_REQ

PCIE AP TO WLAN TXD P	PCIE AP TO WLAN TXD N
PCIE WLAN TO AP RXD P	PCIE WLAN TO AP RXD N
PCIE AP TO WLAN REFCLK P	PCIE AP TO WLAN REFCLK N
PCIE AP TO WLAN RESET L	
PCIE AP TO WLAN DEV WAKE	PCIE WLAN TO AP CLKREQ L
UART AP TO WLAN TXD	UART AP TO WLAN RTS L
UART WLAN TO AP RXD	UART WLAN TO AP CTS L
PMU TO WLAN CLK32K	PMU TO WLAN REG ON
WLAN TO PMU HOST WAKE	OWL TO WLAN CONTEXT A
OWL TO WLAN CONTEXT B	
I2S AP TO BT LRCLK	I2S AP TO BT BCLK
I2S AP TO BT DOUT	I2S BT TO AP DIN
UART AP TO BT TXD	UART AP TO BT RTS L
UART BT TO AP RXD	UART BT TO AP CTS L
PMU TO BT REG ON	BT TO PMU HOST WAKE
BT TO PMU HOST WAKE	AP TO BT WAKE
UART AP TO STOCKHOLM TXD	UART AP TO STOCKHOLM RTS L
UART STOCKHOLM TO AP RXD	UART STOCKHOLM TO AP CTS L
PMU TO STOCKHOLM EN	STOCKHOLM TO PMU HOST WAKE
AP TO STOCKHOLM DEV WAKE	AP TO STOCKHOLM DWLD REQUEST

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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

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# N71 RADIO\_MLB\_MIMO\_PVT

## JULY 07, 2015

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25	51	STOCKHOLM

### ROW/RF2 HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S1907	1	3.3NH, INDUCTOR	L4105_RF	ROW
152S1990	1	3.0NH, INDUCTOR	L4105_RF	RF2
131S0377	1	1.2PF, CAPACITOR	C4108_RF	RF2
152S2007	1	8.2NH, INDUCTOR	L4401_RF	ROW
131S0426	1	22PF, CAPACITOR	C4405_RF	ROW
152S2001	1	2.4NH, INDUCTOR	C4405_RF	RF2
131S0631	1	0.3PF, CAPACITOR	L4406_RF	RF2
152S2044	1	2.2NH, INDUCTOR	C4406_RF	ROW
152S2021	1	1.5NH, INDUCTOR	C4406_RF	RF2
131S0631	1	0.3PF, CAPACITOR	L4407_RF	ROW
152S2056	1	5.6NH, INDUCTOR	L4403_RF	ROW
131S0429	1	8.2PF, CAPACITOR	C4407_RF	ROW
152S2036	1	2.5NH, INDUCTOR	C4407_RF	RF2
131S0631	1	0.3PF, CAPACITOR	L4408_RF	RF2
152S00143	1	15NH, INDUCTOR	L4404_RF	ROW
131S0823	1	33PF, CAPACITOR	C4408_RF	ROW
152S2051	1	1.3NH, INDUCTOR	C4408_RF	RF2
152S2042	1	1.8NH, INDUCTOR	C4409_RF	RF2
117S0108	1	51 OHM, RESISTOR	L4410_RF	ROW
131S0363	1	0.6PF, CAPACITOR	L4410_RF	RF2
152S00052	1	3.4NH, INDUCTOR	L3910_RF	ROW
152S00026	1	3.5NH, INDUCTOR	L3910_RF	RF2
152S2039	1	3.8NH, INDUCTOR	L3911_RF	ROW
117S0201	1	0 OHM, RESISTOR	L3911_RF	RF2
131S0279	1	1.3PF, CAPACITOR	L3919_RF	ROW
152S2045	1	3.0NH, INDUCTOR	L3919_RF	RF2
152S00052	1	3.4NH, INDUCTOR	L3912_RF	RF2
131S0599	1	1.5PF, CAPACITOR	C3922_RF	RF2
131S0630	1	27PF, CAPACITOR	C3911_RF	RF2

### LB PAD

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S00461	1	IC, PWR AMP, LB_PAD, SKWS	ULBPA_RF	ROW
353S00461	1	IC, PWR AMP, LB_PAD, SKWS	ULBPA_RF	RF2
353S00461	1	IC, PWR AMP, LB_PAD, SKWS	ULBPA_RF	RFC
353S00541	1	IC, PWR AMP, LB_PAD, PT	ULBPA_RF	DARWIN

### MB PAD

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S4495	1	IC, PWR AMP, MB_PAD	UMBPA_RF	ROW
353S4495	1	IC, PWR AMP, MB_PAD	UMBPA_RF	RF2
353S4495	1	IC, PWR AMP, MB_PAD	UMBPA_RF	RFC
353S00477	1	IC, PWR AMP, MB_PAD, PT	UMBPA_RF	DARWIN

### RFC HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S1907	1	3.3NH, INDUCTOR	L4105_RF	RFC
152S2007	1	8.2NH, INDUCTOR	L4401_RF	RFC
131S0426	1	22PF, CAPACITOR	C4405_RF	RFC
152S2044	1	2.2NH, INDUCTOR	C4406_RF	RFC
131S0631	1	0.3PF, CAPACITOR	L4407_RF	RFC
152S2056	1	5.6NH, INDUCTOR	L4403_RF	RFC
131S0429	1	8.2PF, CAPACITOR	C4407_RF	RFC
152S00143	1	15NH, INDUCTOR	L4404_RF	RFC
131S0823	1	33PF, CAPACITOR	C4408_RF	RFC
117S0108	1	51 OHM, RESISTOR	L4410_RF	RFC
152S00052	1	3.4NH, INDUCTOR	L3910_RF	RFC
152S2039	1	3.8NH, INDUCTOR	L3911_RF	RFC
131S0279	1	1.3PF, CAPACITOR	L3919_RF	RFC

### DARWIN HB PAD MATCHING BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S1907	1	3.3NH, INDUCTOR	L4105_RF	DARWIN
152S2007	1	8.2NH, INDUCTOR	L4401_RF	DARWIN
131S0426	1	22PF, CAPACITOR	C4405_RF	DARWIN
152S2044	1	2.2NH, INDUCTOR	C4406_RF	DARWIN
131S0631	1	0.3PF, CAPACITOR	L4407_RF	DARWIN
152S2056	1	5.6NH, INDUCTOR	L4403_RF	DARWIN
131S0429	1	8.2PF, CAPACITOR	C4407_RF	DARWIN
152S00143	1	15NH, INDUCTOR	L4404_RF	DARWIN
131S0823	1	33PF, CAPACITOR	C4408_RF	DARWIN
117S0108	1	51 OHM, RESISTOR	L4410_RF	DARWIN
152S00052	1	3.4NH, INDUCTOR	L3910_RF	DARWIN
152S2039	1	3.8NH, INDUCTOR	L3911_RF	DARWIN
131S0279	1	1.3PF, CAPACITOR	L3919_RF	DARWIN

### LAT DIPLEXER1

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
155S0971	1	LAT CELL DIPLEXER1,TDK	FLDIP_RF	ROW
155S0971	1	LAT CELL DIPLEXER1,TDK	FLDIP_RF	RF2
155S0971	1	LAT CELL DIPLEXER1,TDK	FLDIP_RF	RFC
155S0971	1	LAT CELL DIPLEXER1,TDK	FLDIP_RF	DARWIN

### HB PAD

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
353S00376	1	IC, PWR AMP, HB_PAD, TQS	UHBPA_RF	ROW
353S4494	1	IC, PWR AMP, HB_PAD, AVAGO	UHBPA_RF	RF2
353S00376	1	IC, PWR AMP, HB_PAD, TQS	UHBPA_RF	RFC
353S00478	1	IC, PWR AMP, HB_PAD, PT	UHBPA_RF	DARWIN

### 19.2MHZ XTAL ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0565	197S0593	ALTERNATE	Y_XO_RF	XTAL, 19.2MHZ
197S0598	197S0593	ALTERNATE	Y_XO_RF	XTAL, 19.2MHZ

### VINYL

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
337S00176	1	IC, VINYL	U5101_RF	ROW
337S00176	1	IC, VINYL	U5101_RF	RF2

### VINYL RESISTOR

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
117S0161	1	0 OHM, RESISTOR	R3402_RF	RFC
117S0161	1	0 OHM, RESISTOR	R3402_RF	DARWIN

### HW\_REV1\_ID RESISTOR

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
118S0646	1	51.1 KOHM, RESISTOR	R3503_RF	DARWIN

### SIM ESD DIODE ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
377S00042	377S0163	ALTERNATE	VR301_RF	ON SEMI ESD DIODE

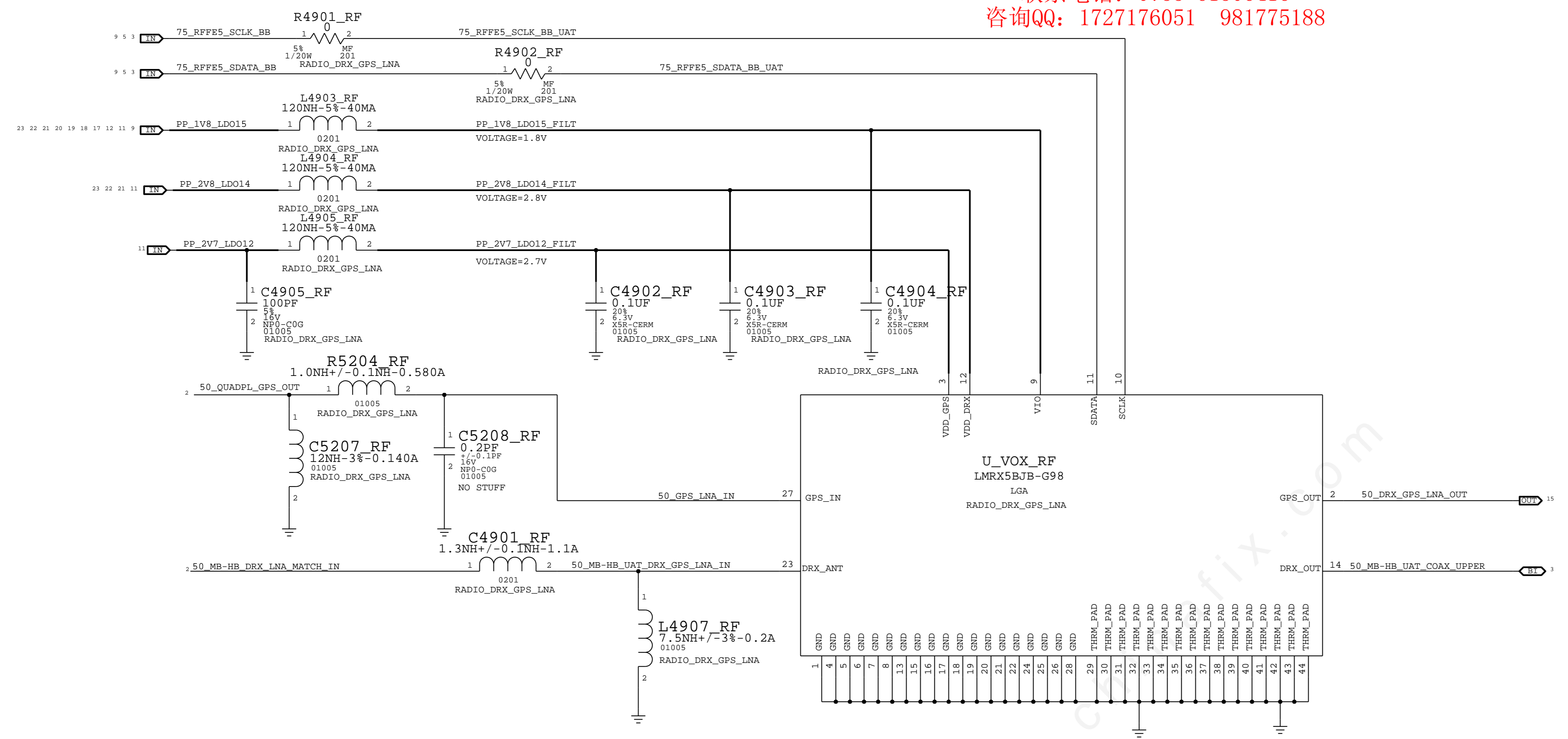
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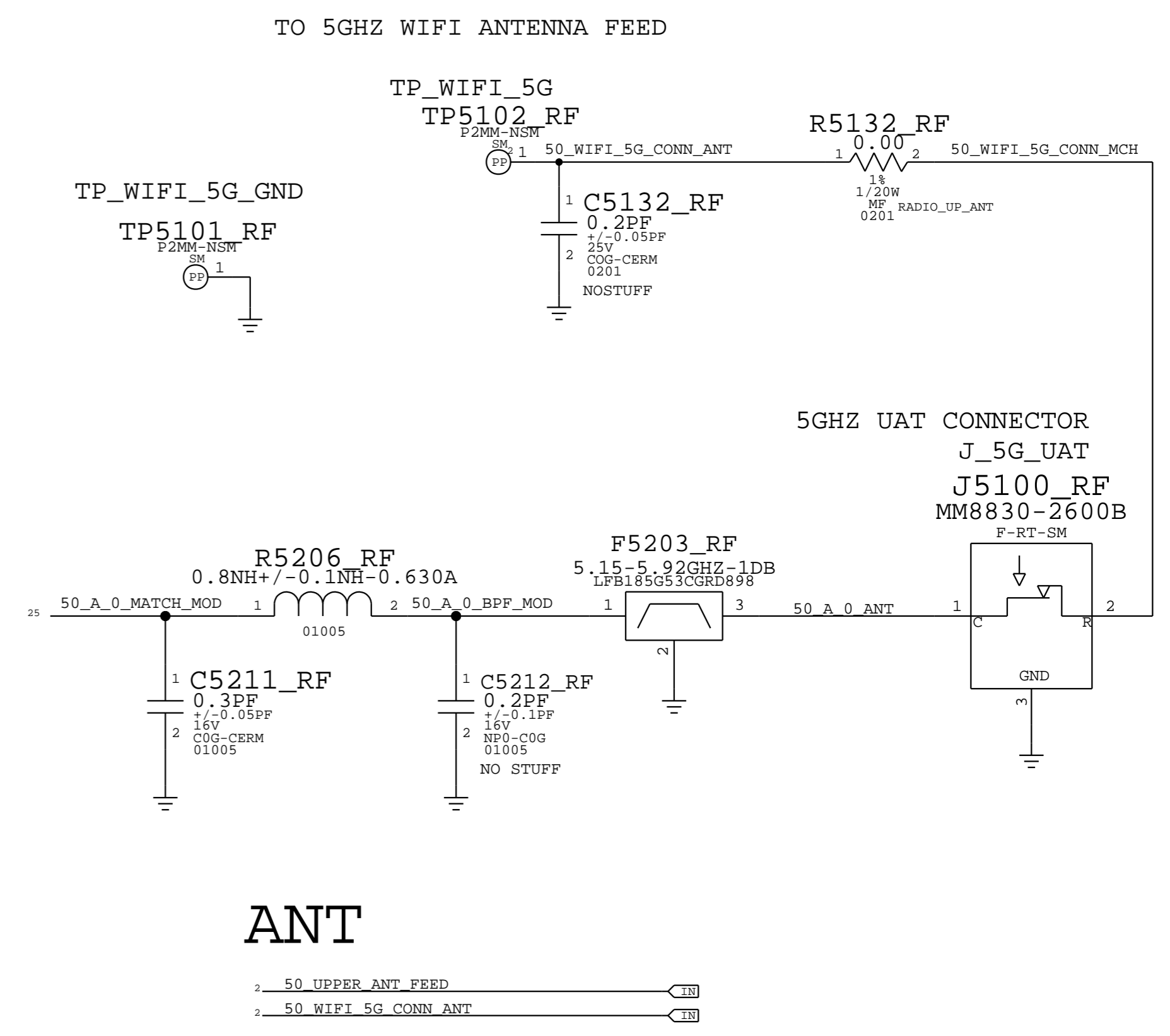
# N71-SPECIFIC RADIO PAGE 2

## DIVERSITY LNA

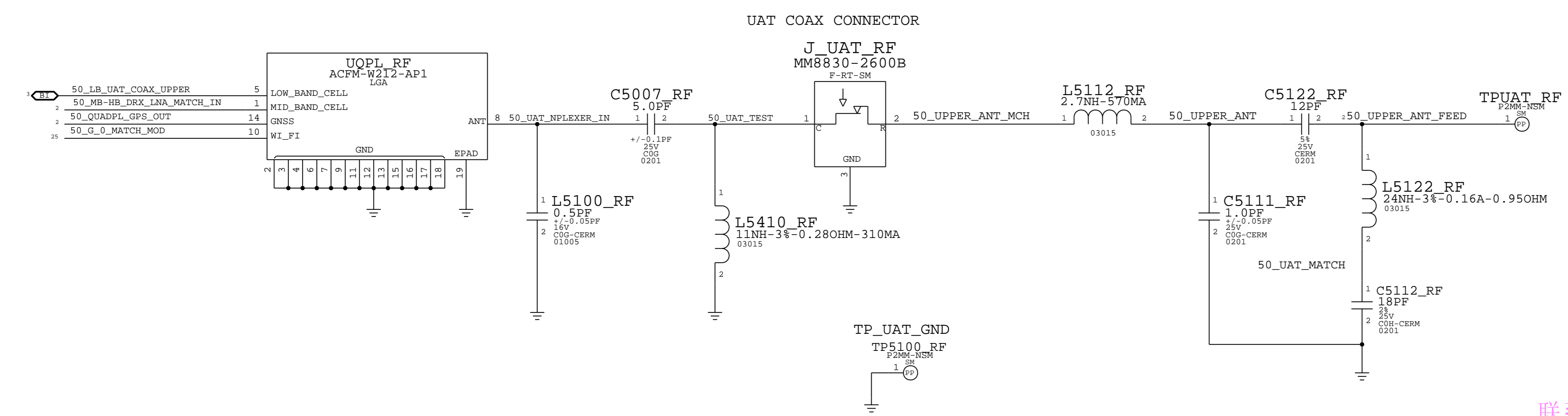
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## WIFI ANT FEED



## UAT ANT FEED



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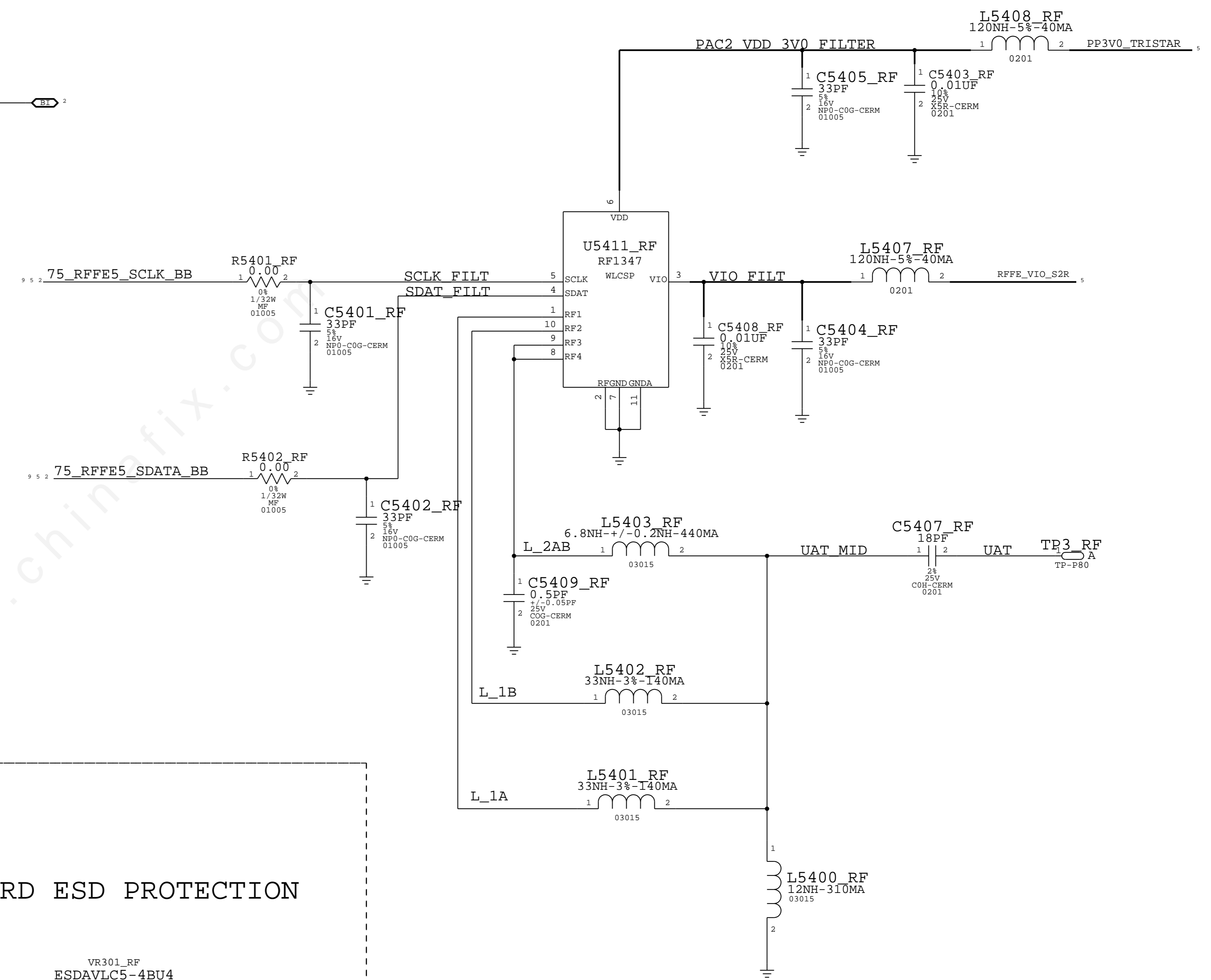
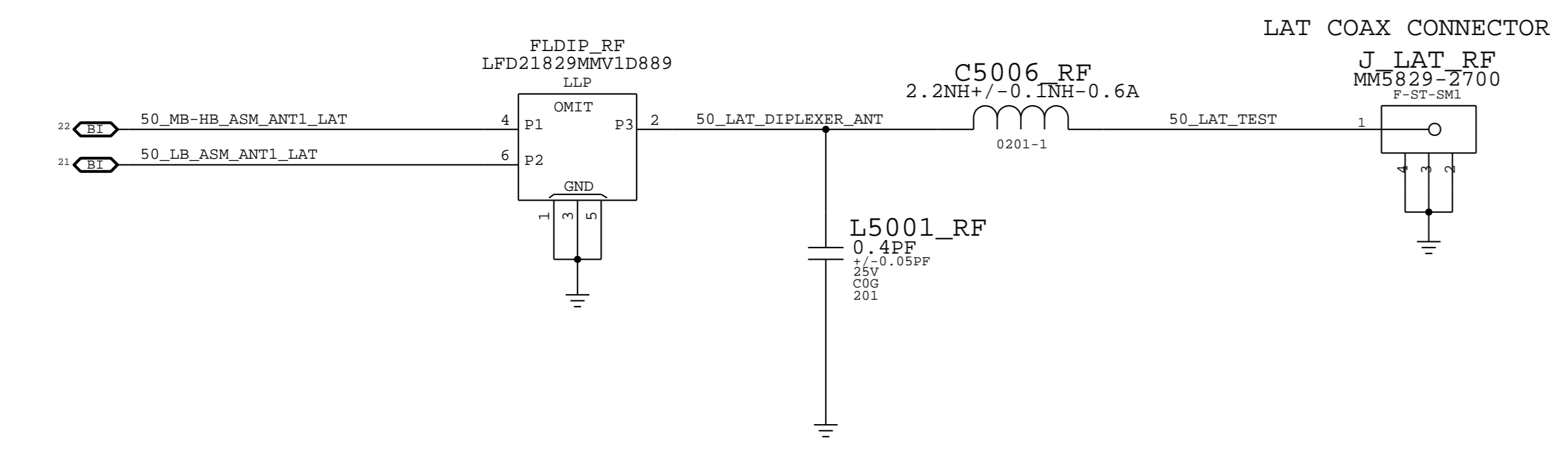
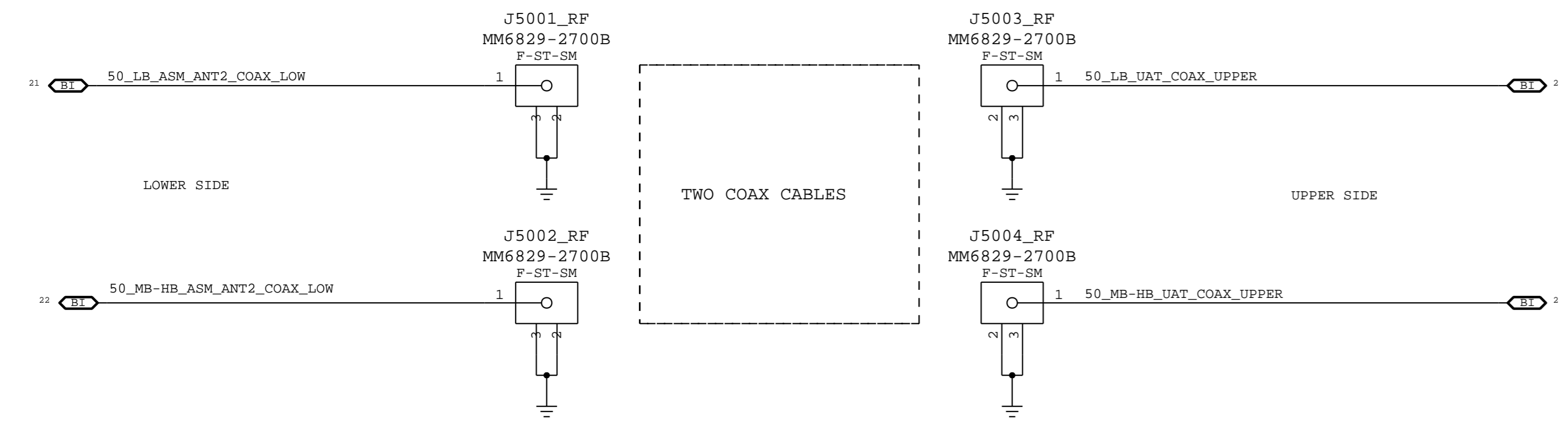
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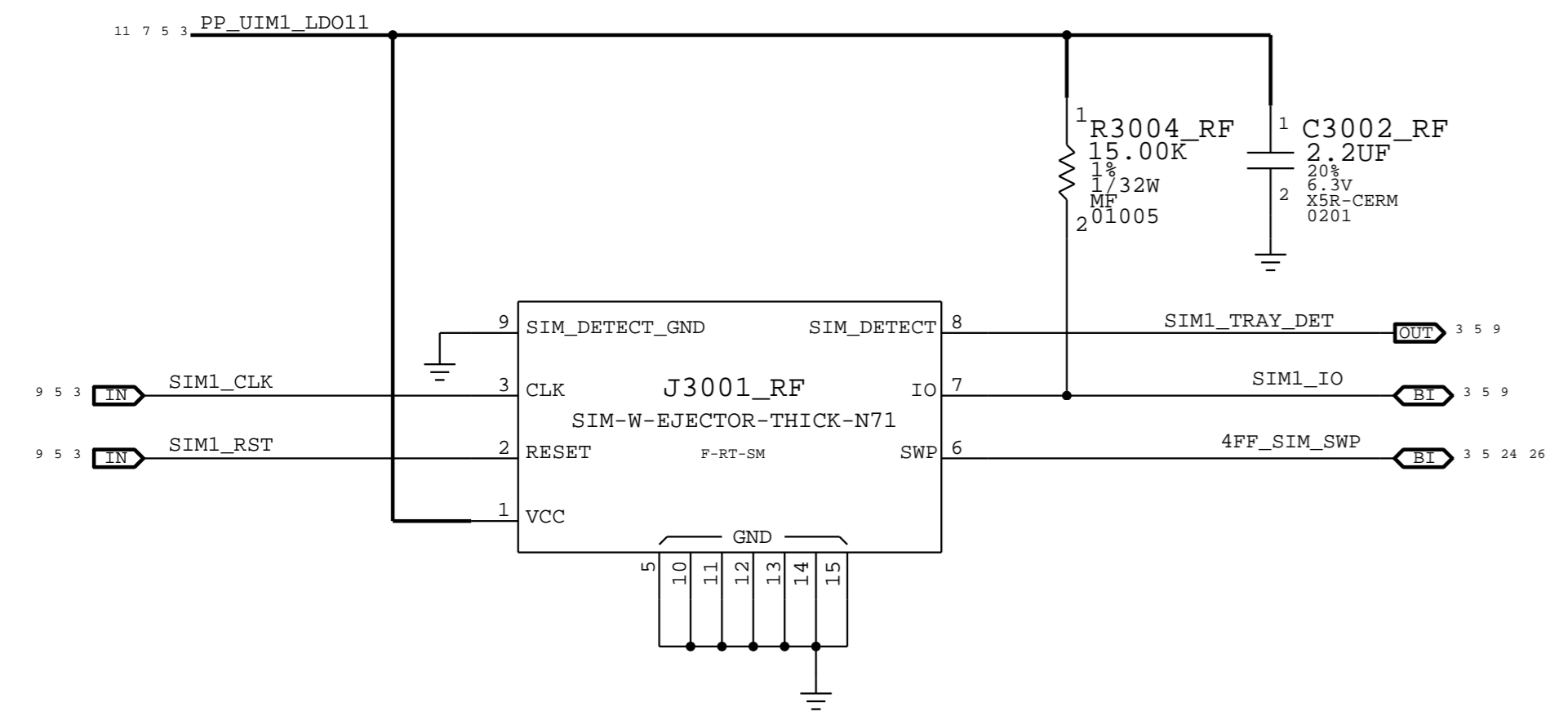
## ANTENNA FEEDS AND CONNECTORS

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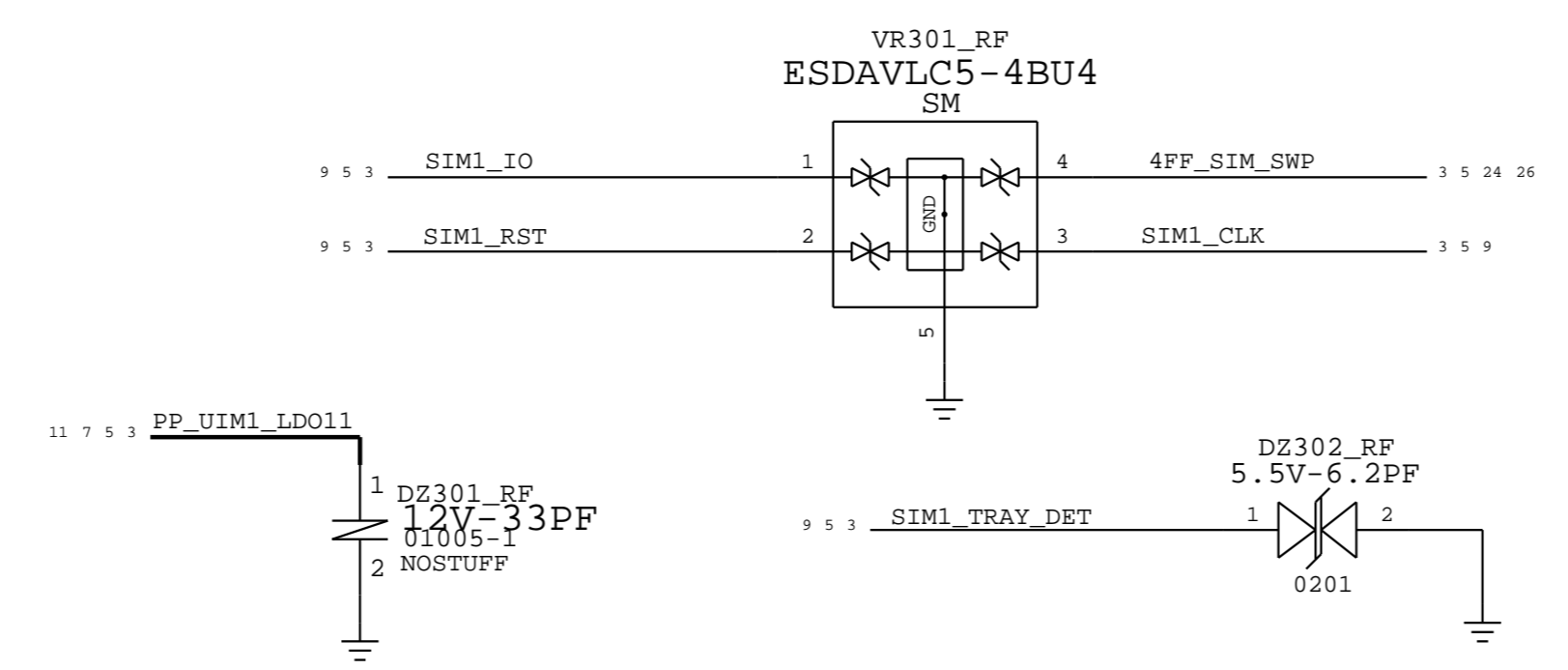
## UAT TUNER



## SIM CARD CONNECTOR



## SIM CARD ESD PROTECTION



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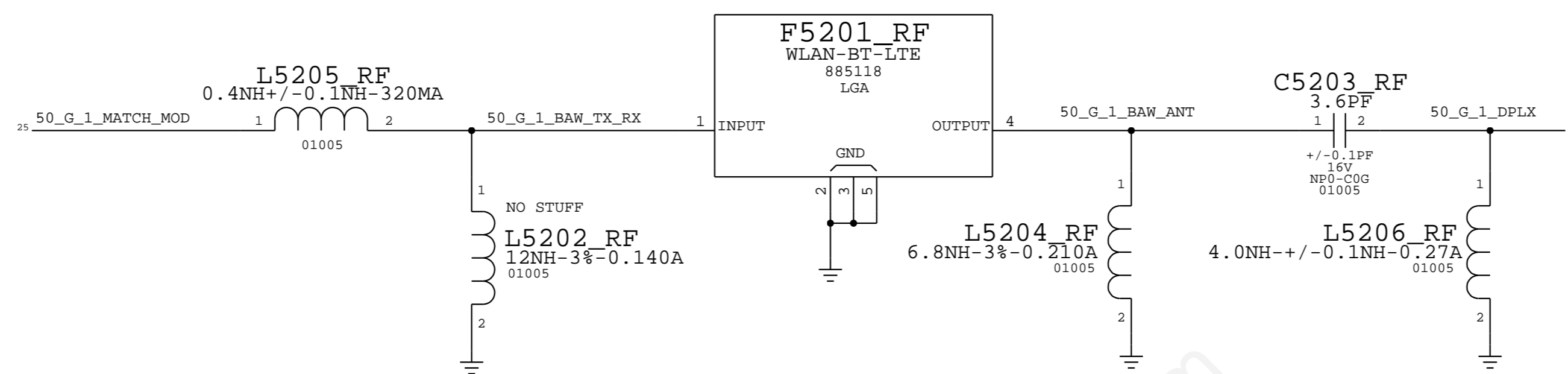
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## WLAN LAT 2.4GHZ BAW BPF



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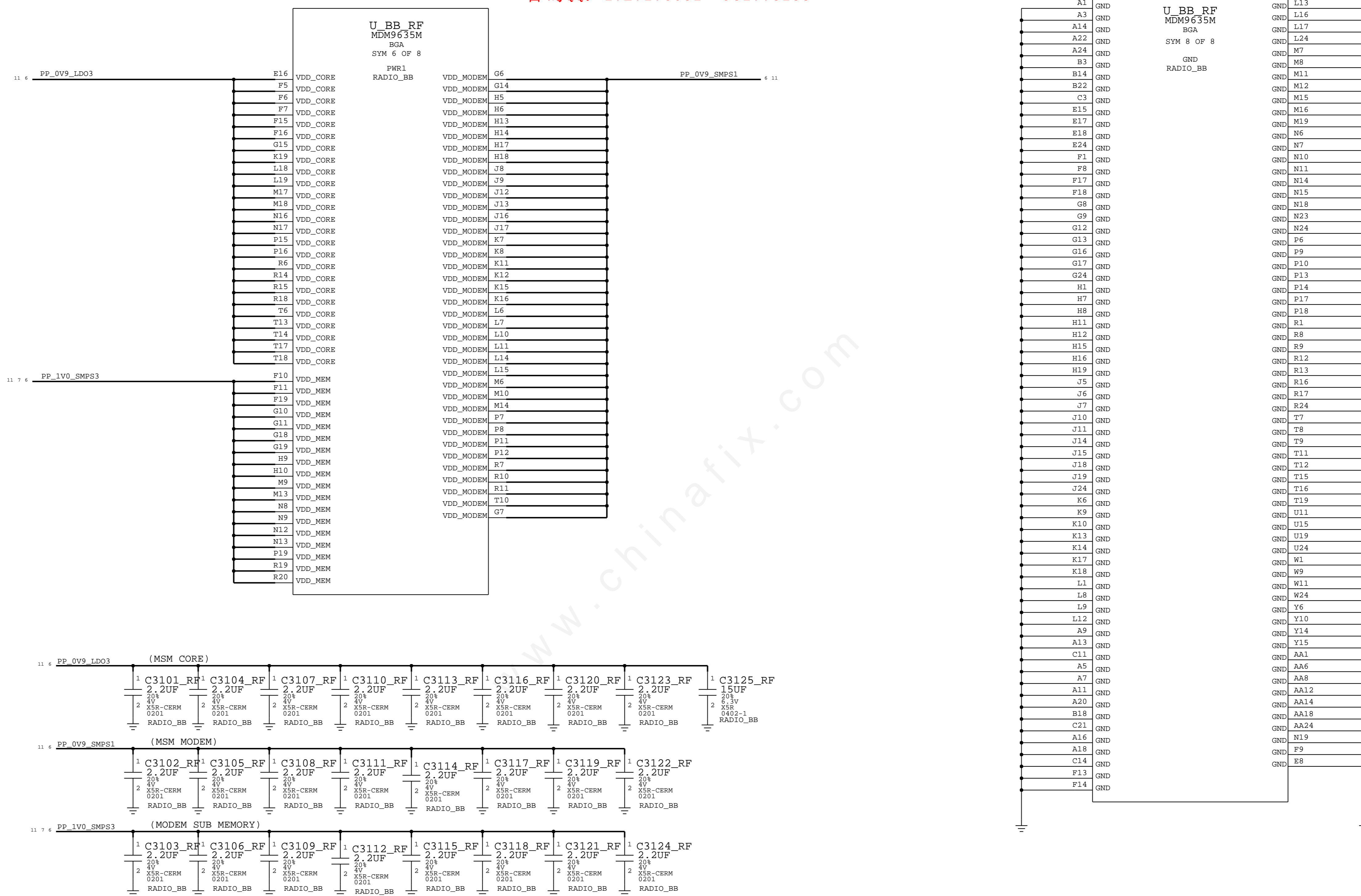
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# BASEBAND: POWER 1

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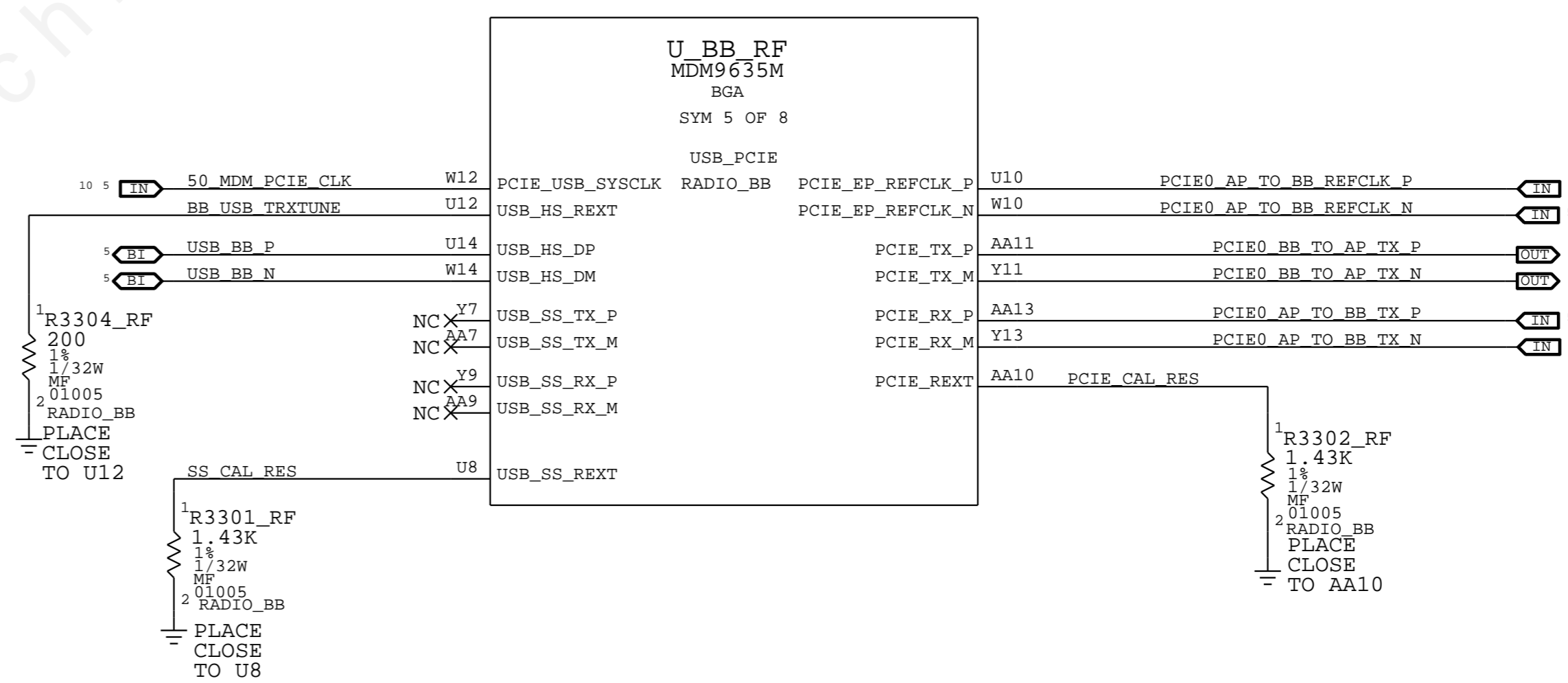
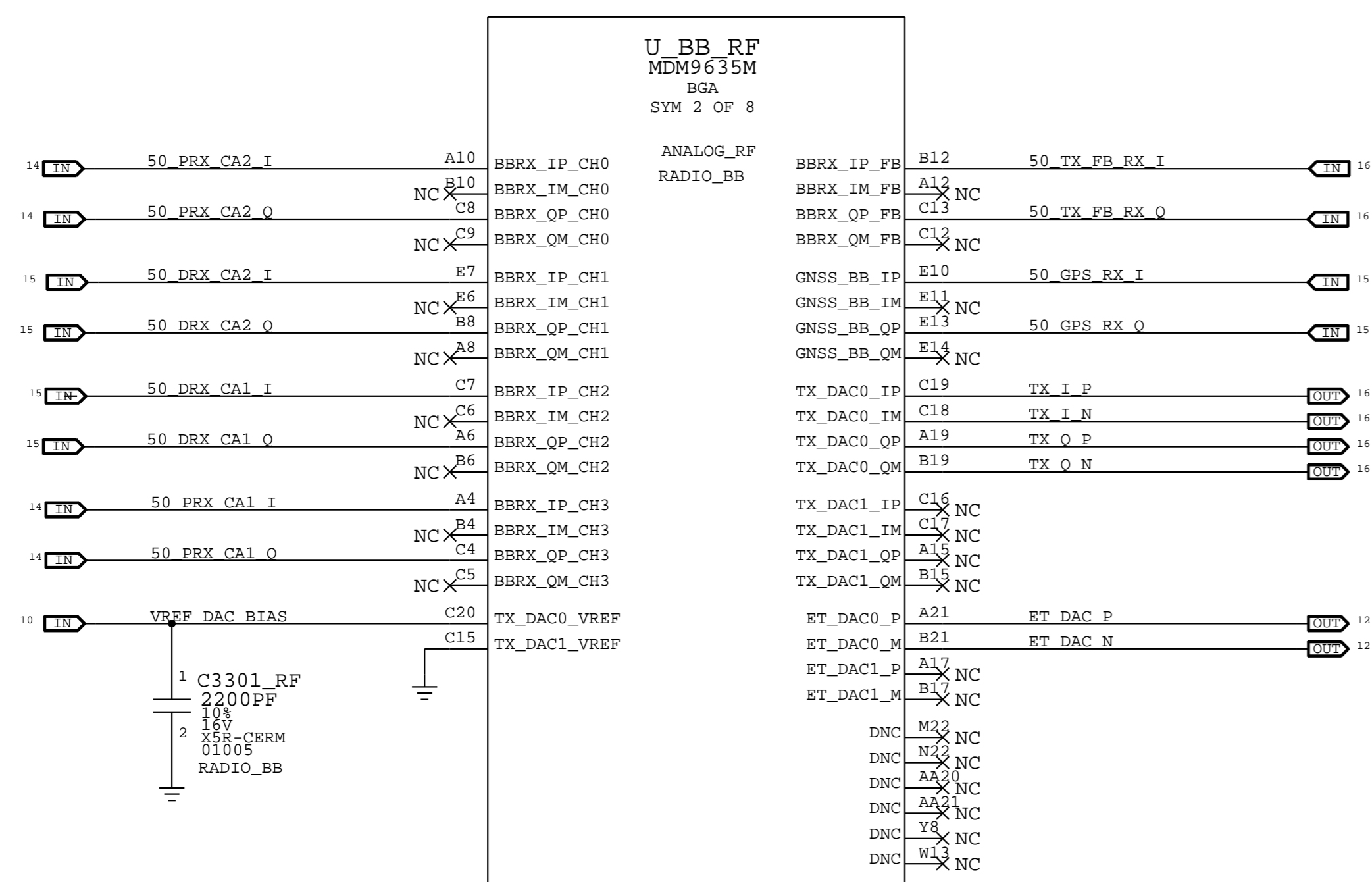
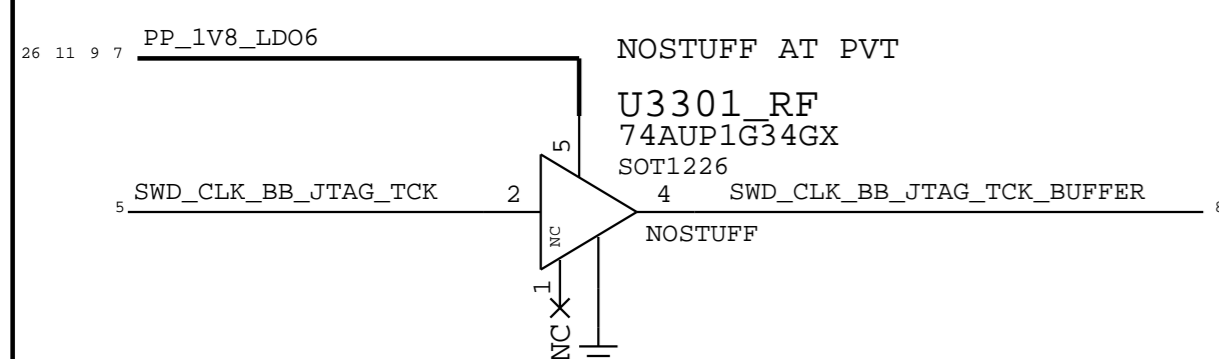
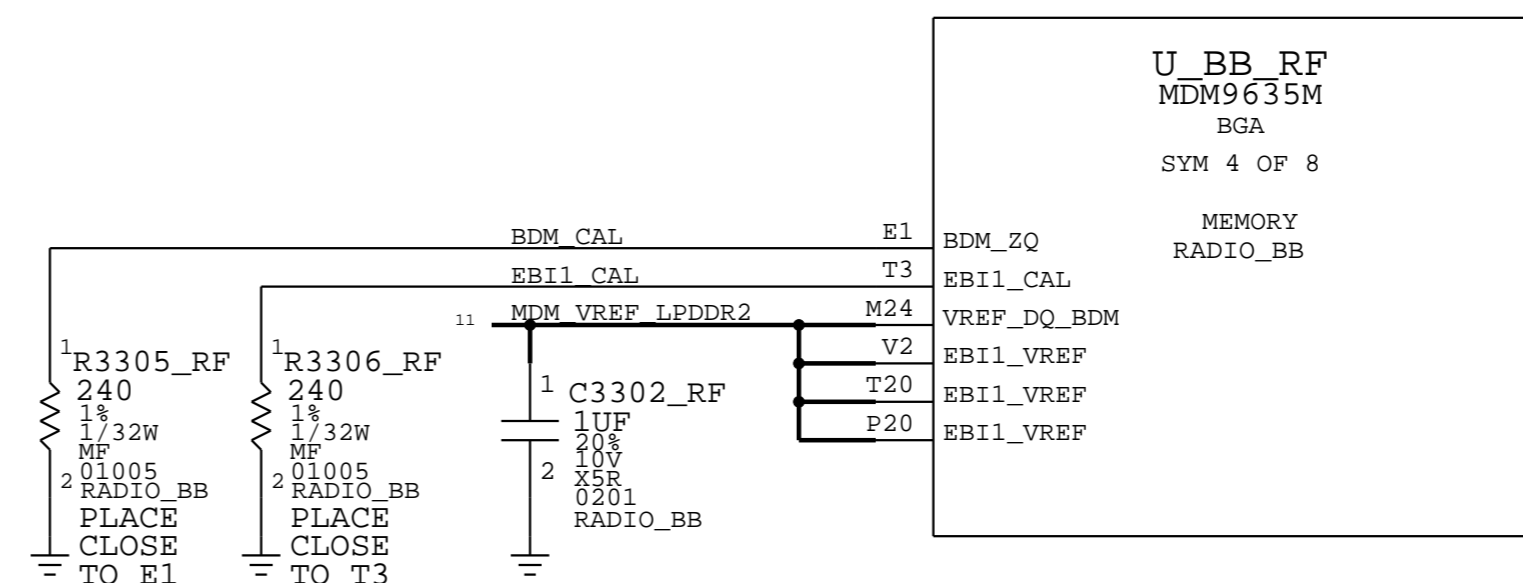
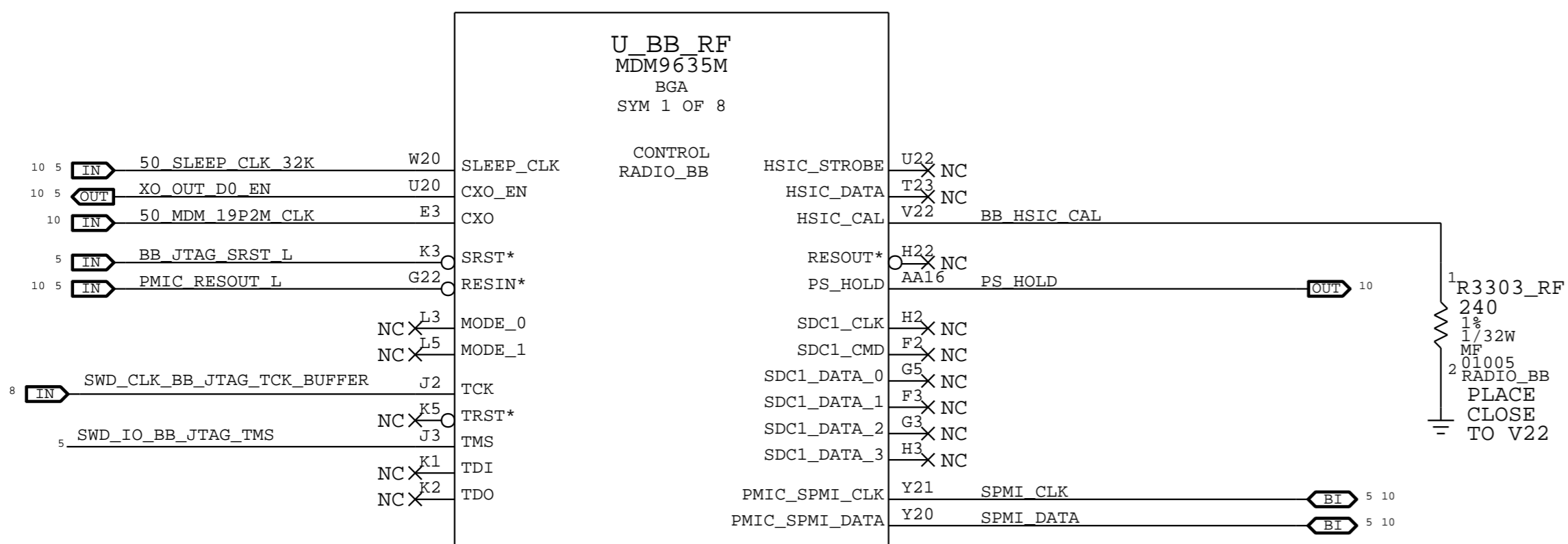
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# BASEBAND: CONTROL AND INTERFACES

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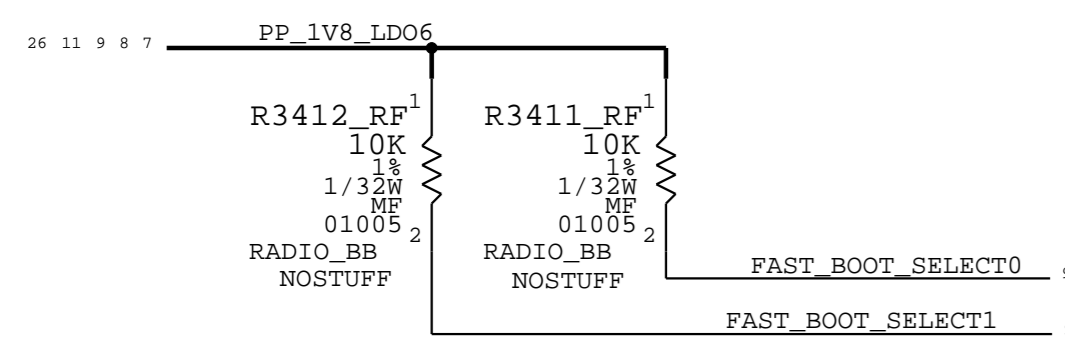
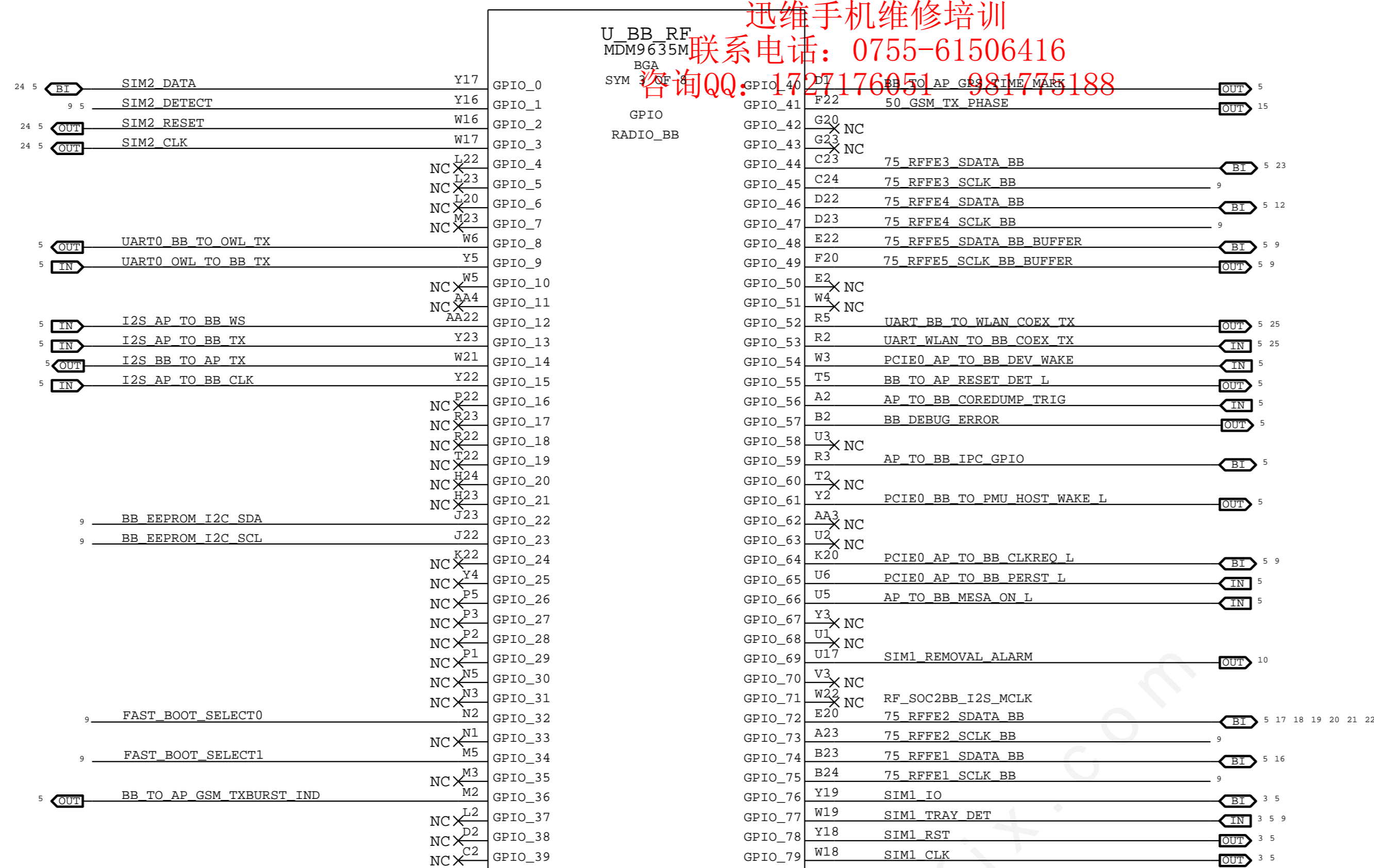


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# BASEBAND: GPIOS

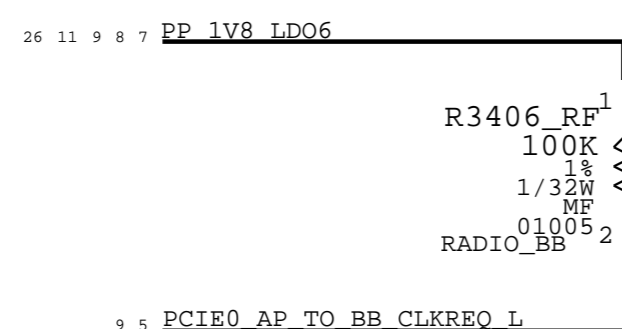
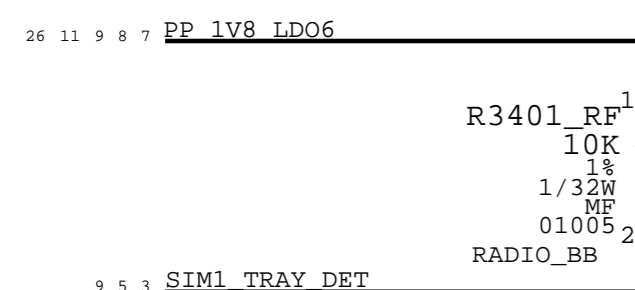
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STUFF R3411 FOR PCIE BOOT (UNFUSED BB)  
 STUFF R3412 FOR USB BOOT (UNFUSED BB)

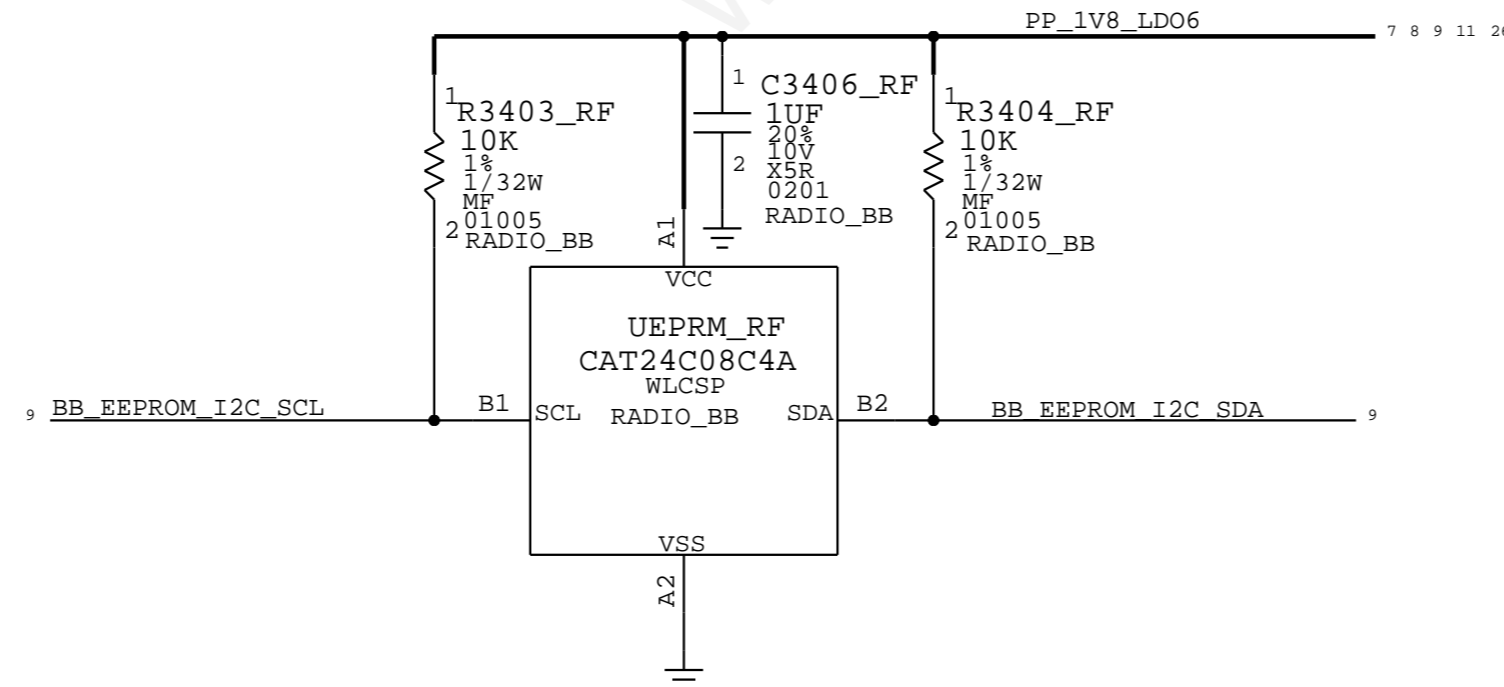
OPTION	SEL2	SEL1	SELO
GPIO	35	34	32
PCIE	0	0	1
HSUSB	0	1	0
HSIC	0	1	1

NOSTUFF R3402 WHEN VINYL PRESENT  
 STUFF R3402 WHEN VINYL NOT PRESENT

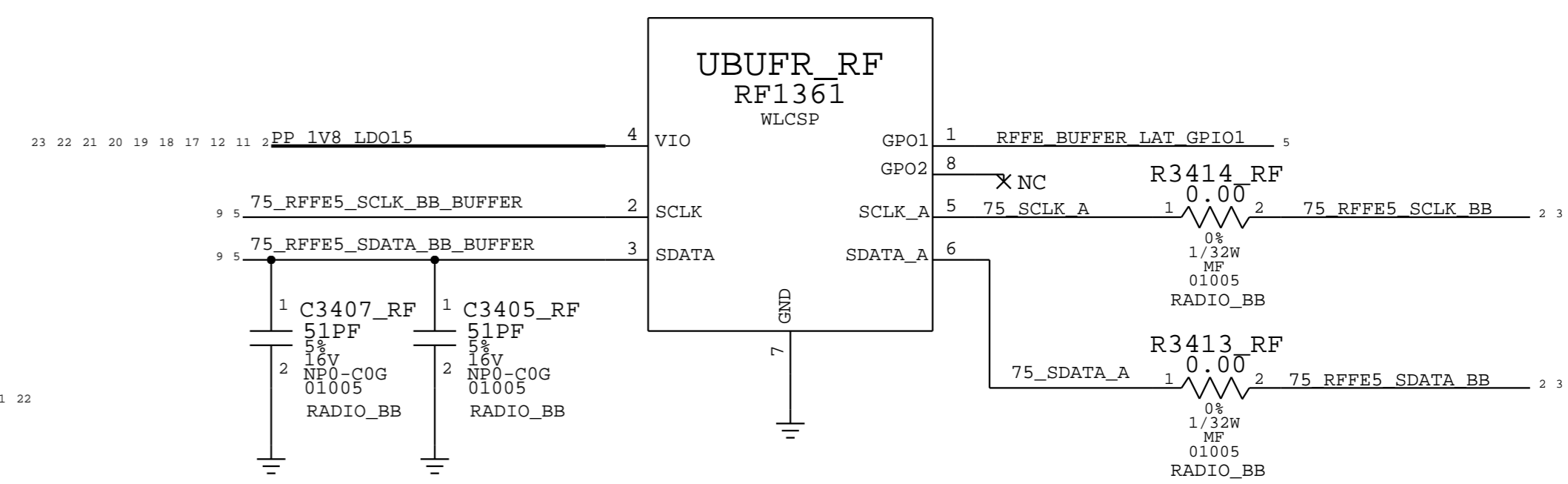


PCIE PULL-UPS TO BB RAIL

## BB EEPROM

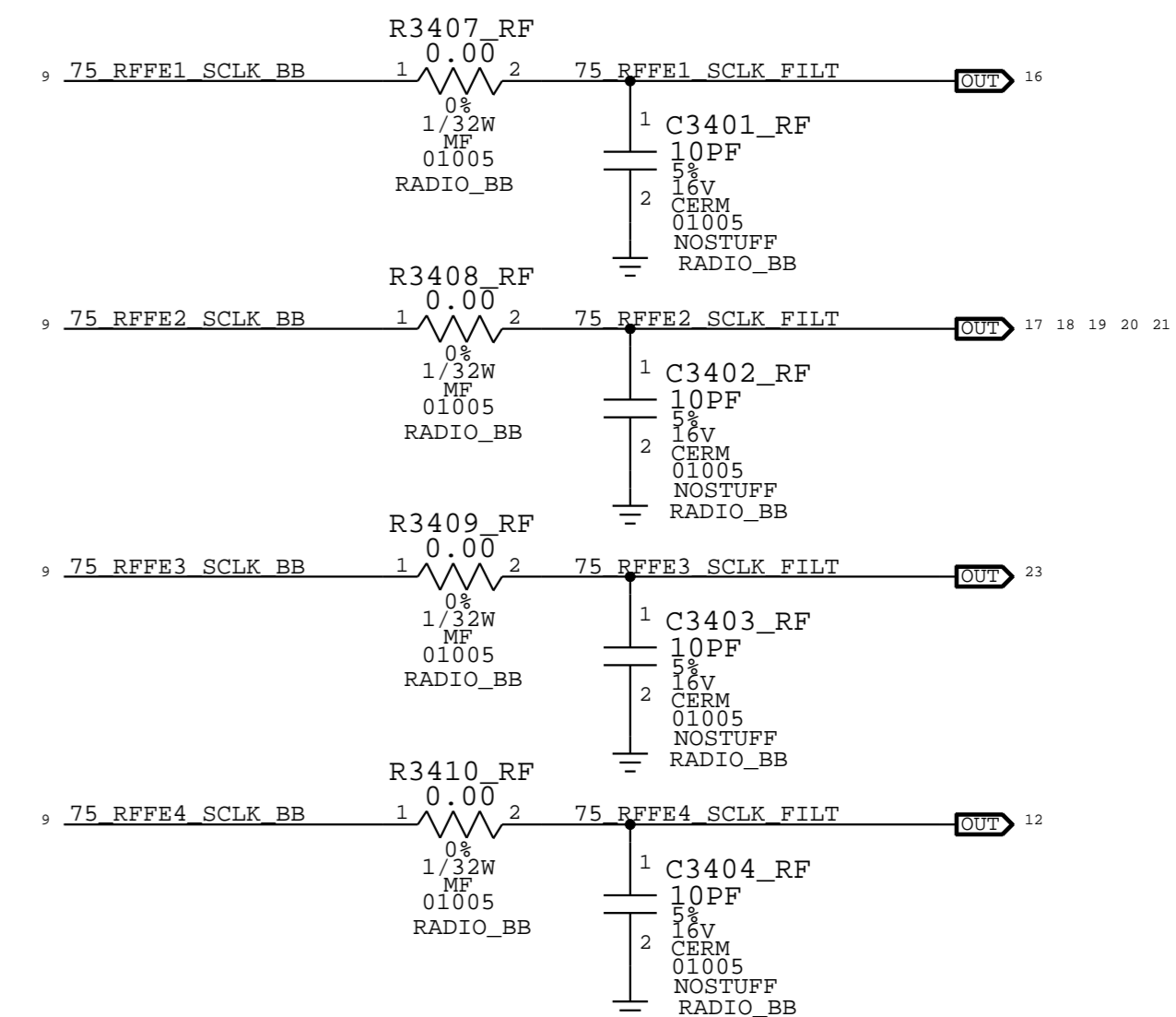


BUFFER ON RFFE5  
 SCLK/SDATA\_A IS OUTPUT



PLACE C3405\_RF CLOSE TO BUFFER  
 PLACE C3407\_RF CLOSE TO MDM

## RFFE CLOCK FILTERS



## 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

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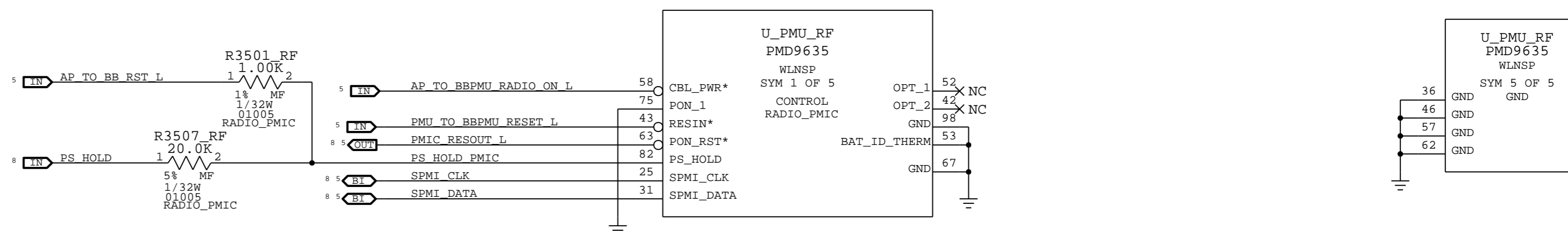
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# PMU: CONTROL AND CLOCKS

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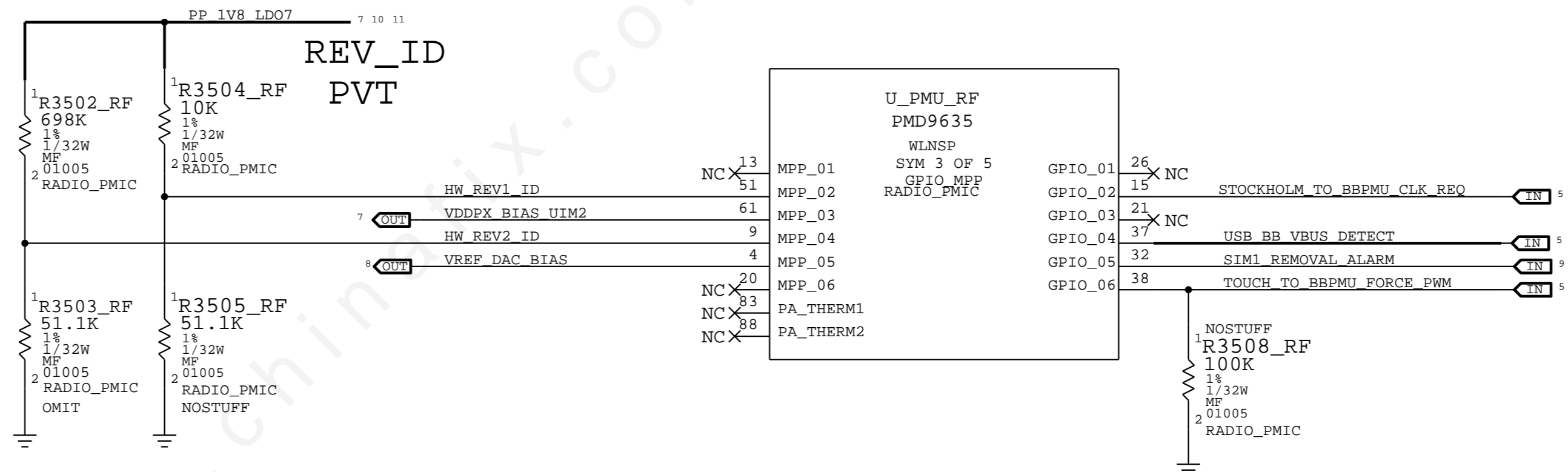
## RESET AND CONTROL: PMU

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

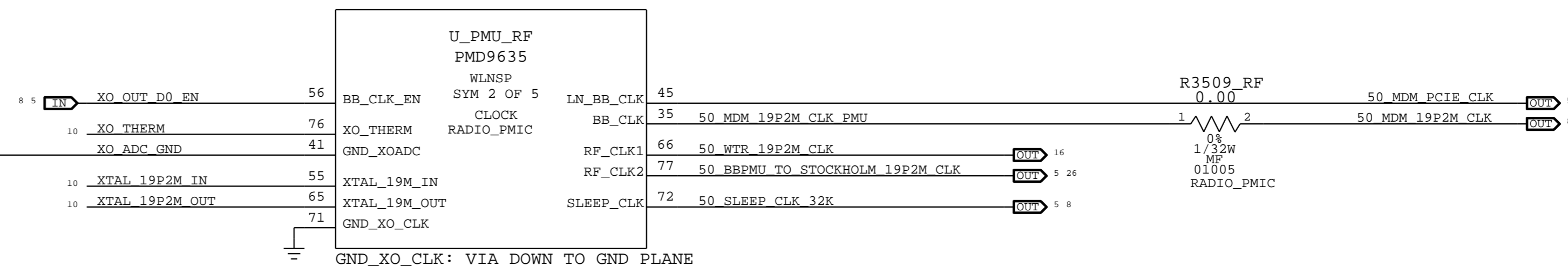
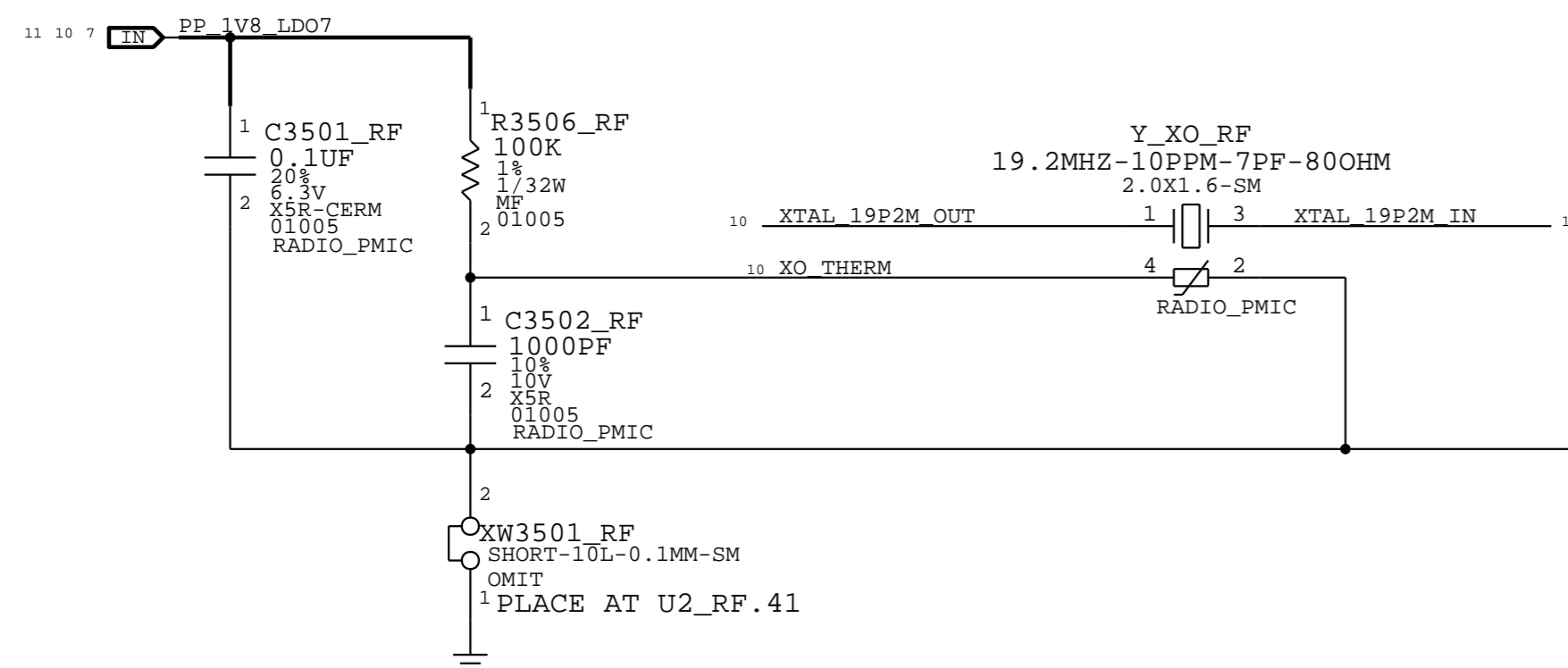


HW_REV_ID	R3504	R3505	REVISION
0.10V	887K	51.1K	DEV1
0.30V	255K	51.1K	DEV2
0.50V	124K	51.1K	DEV3
0.70V	82.5K	51.1K	DEV4/PROTOMLB1
0.90V	51.1K	51.1K	PROTOMLB2
1.10V	31.6K	51.1K	DEV5/PROTO1
1.20V	50K	100K	PROTO2
1.31V	39K	105K	EVT
1.43V	13.3K	51.1K	EVT_ALT
1.55V	8.25K	51.1K	CARRIER BUILD
1.67V	3.92K	51.1K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

## MPPS AND GPIOs: PMU



## XTAL AND CLOCK: PMU



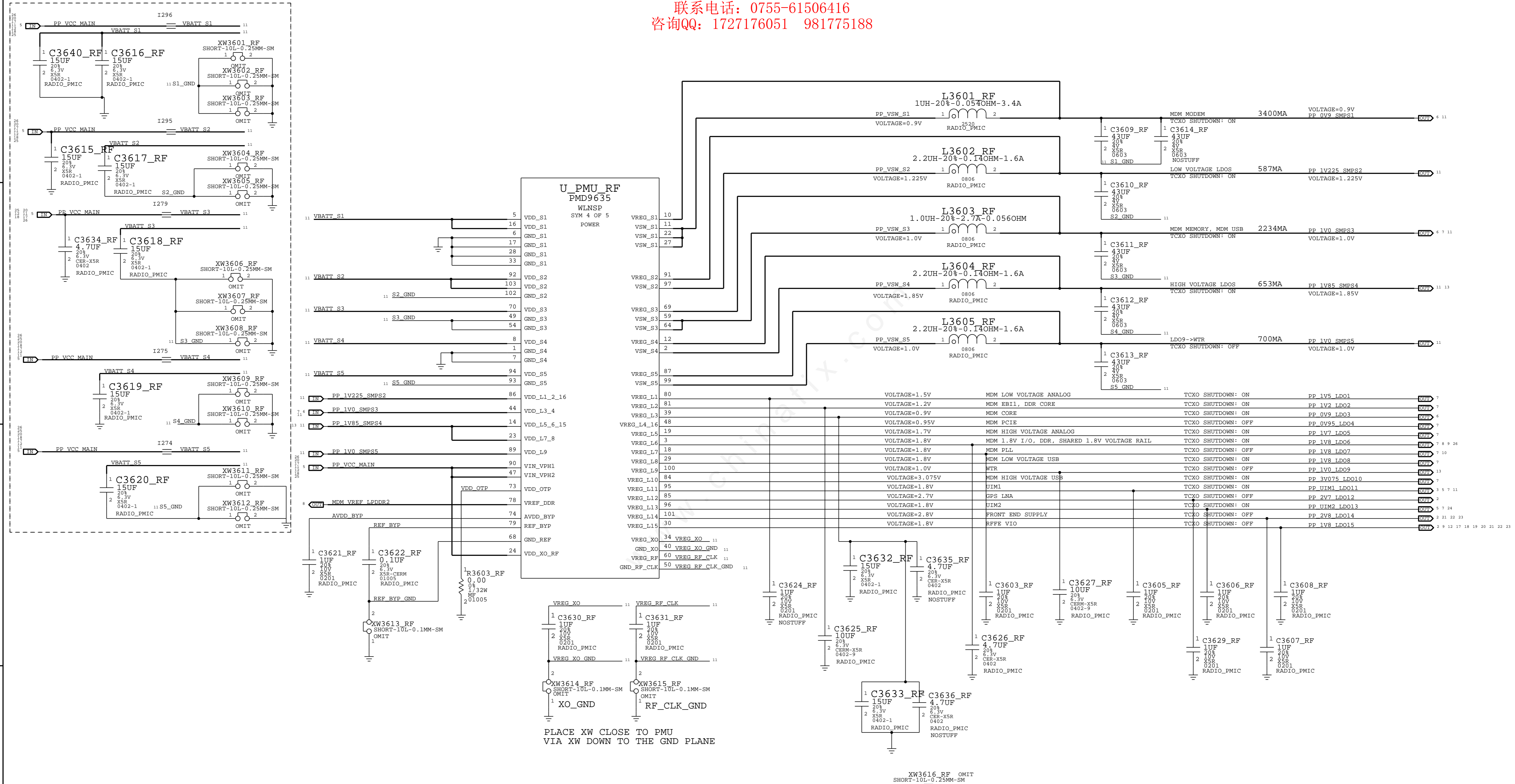
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# PMU: SWITCHERS AND LDOS

## SWITCHERS BULK CAPS

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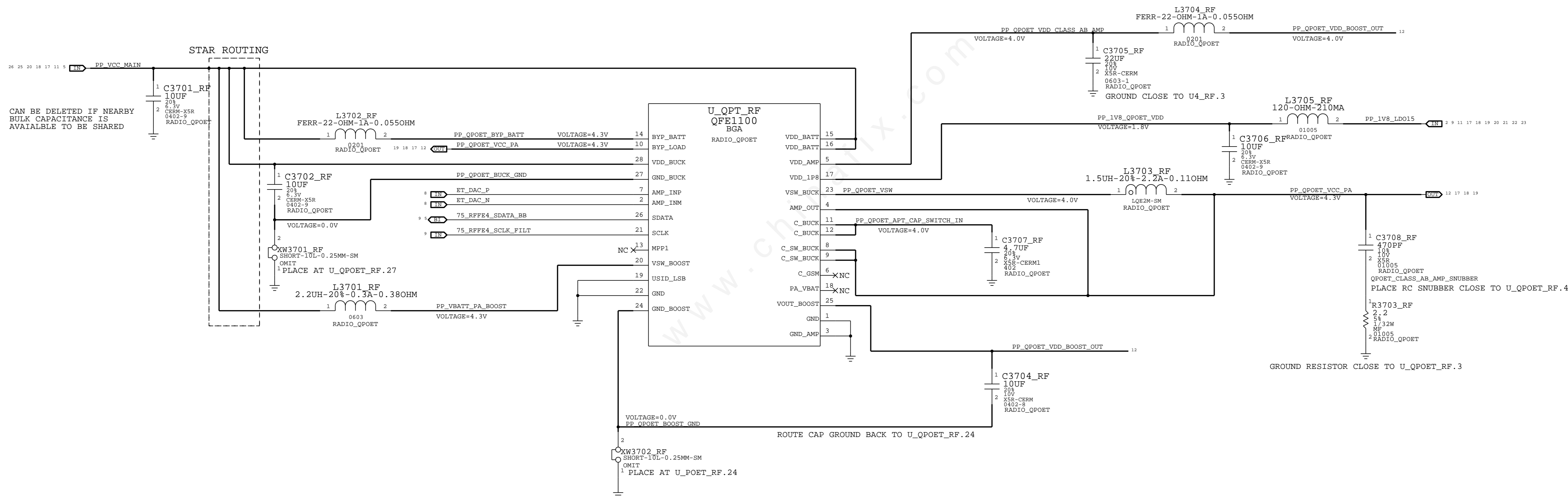
PLACE XW CLOSE TO PMU  
 VIA XW DOWN TO THE GND PLANE

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# PMU: ET MODULATOR

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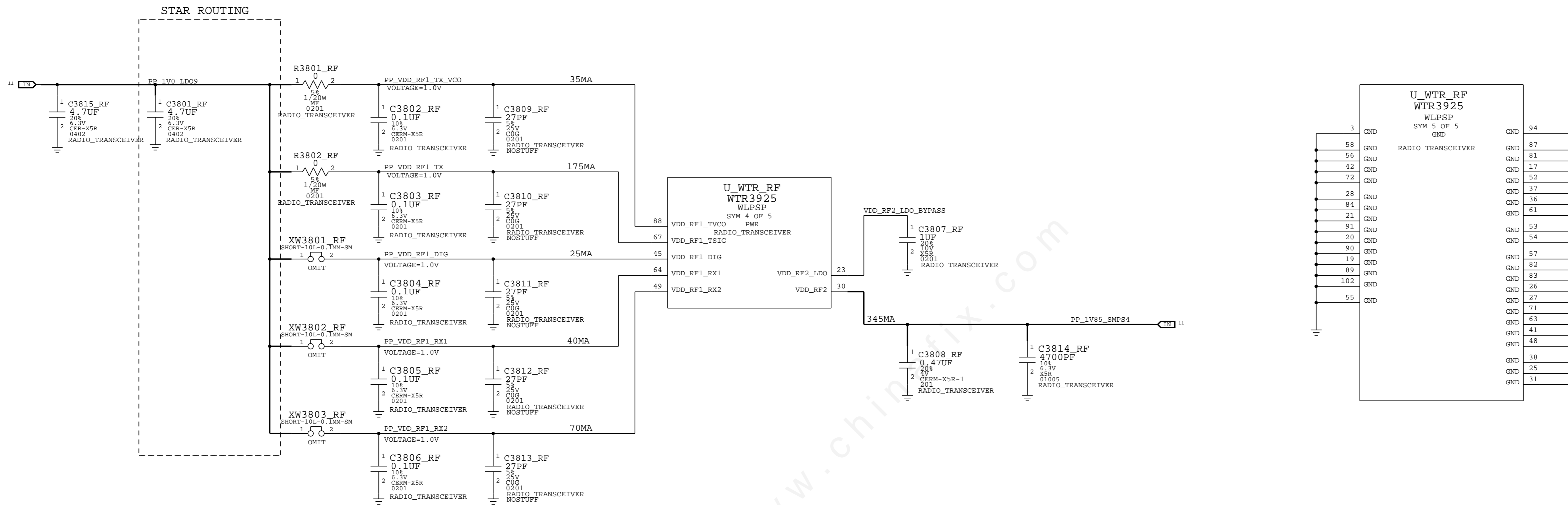


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# TRANSCEIVER: POWER

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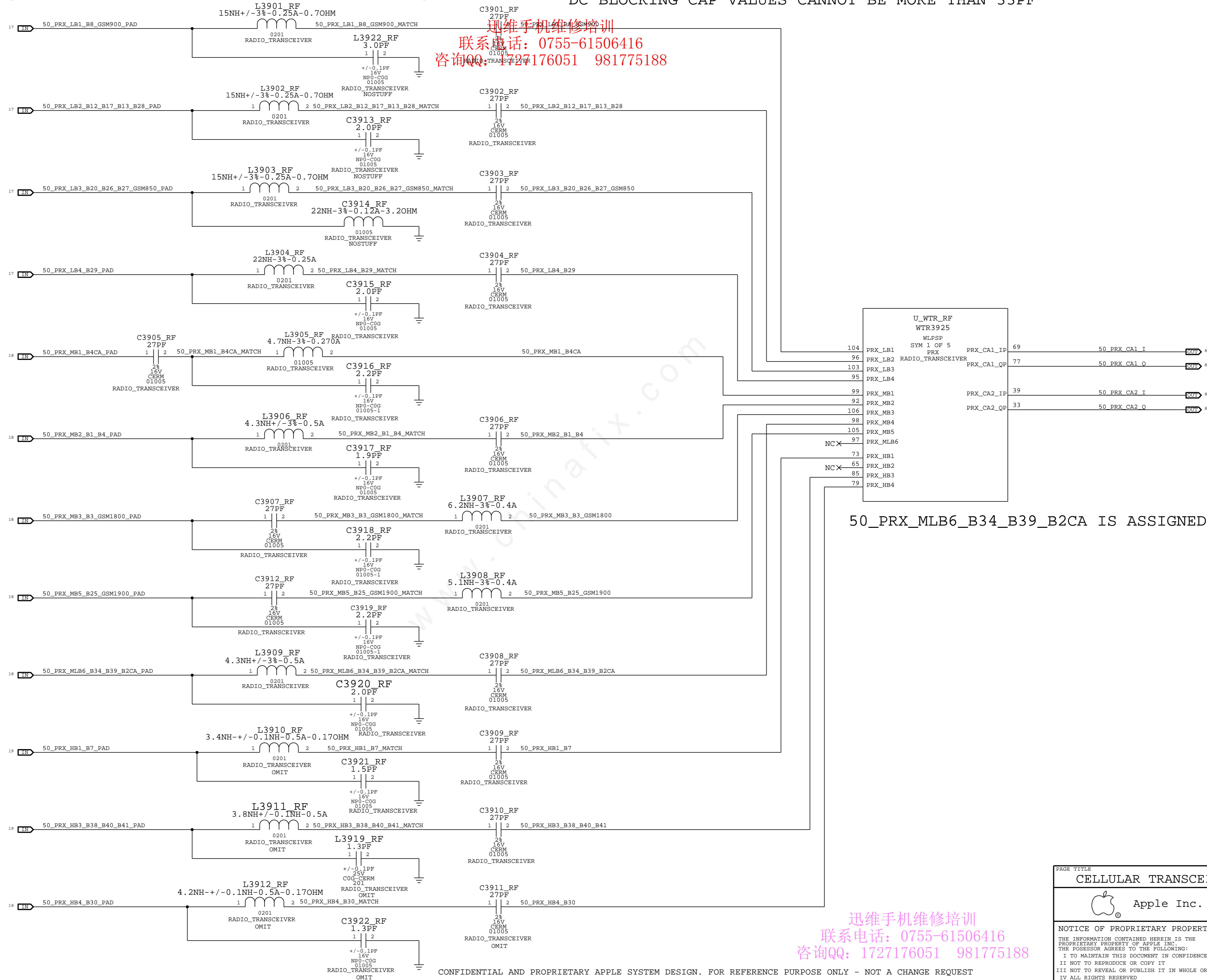
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# TRANSCEIVER: PRX PORTS

DC BLOCKING CAP VALUES CANNOT BE MORE THAN 33PF

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50\_PRX\_MLB6\_B34\_B39\_B2CA IS ASSIGNED TO MB4

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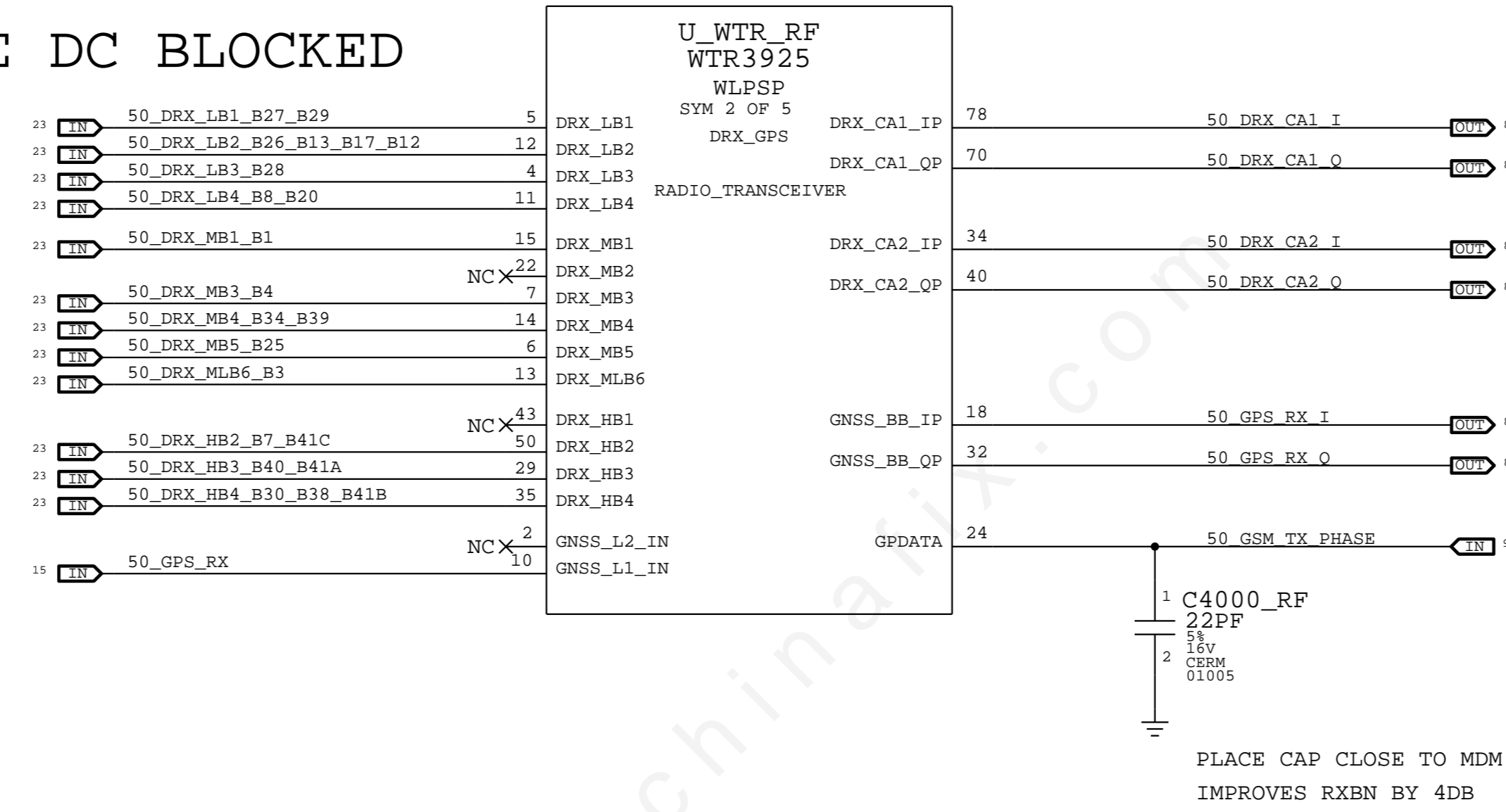
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# TRANSCEIVER: DRX/GPS PORTS

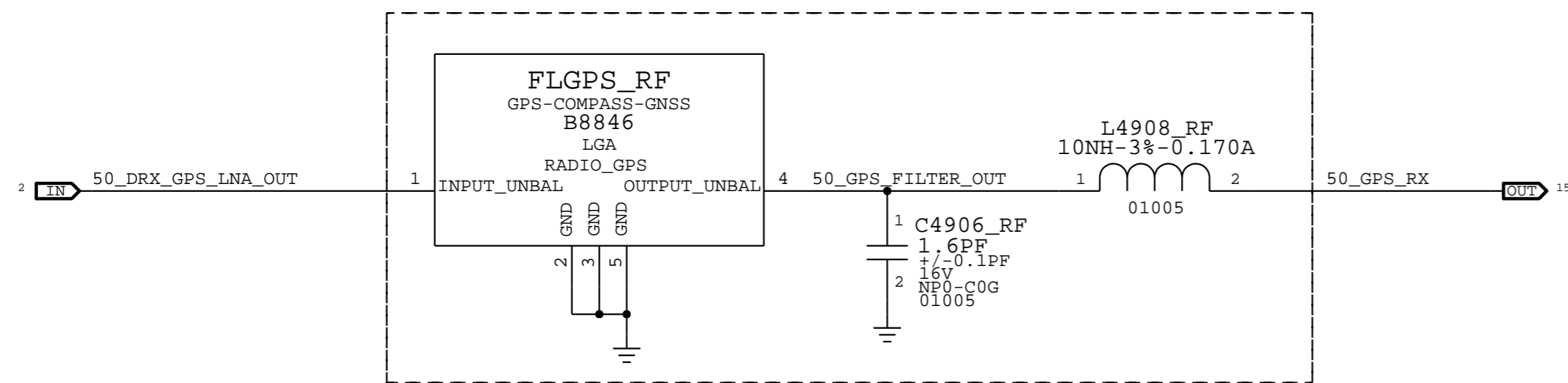
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DRX MODULE PORTS ARE DC BLOCKED



## GPS FILTER

PLACE NEAR U\_WTR



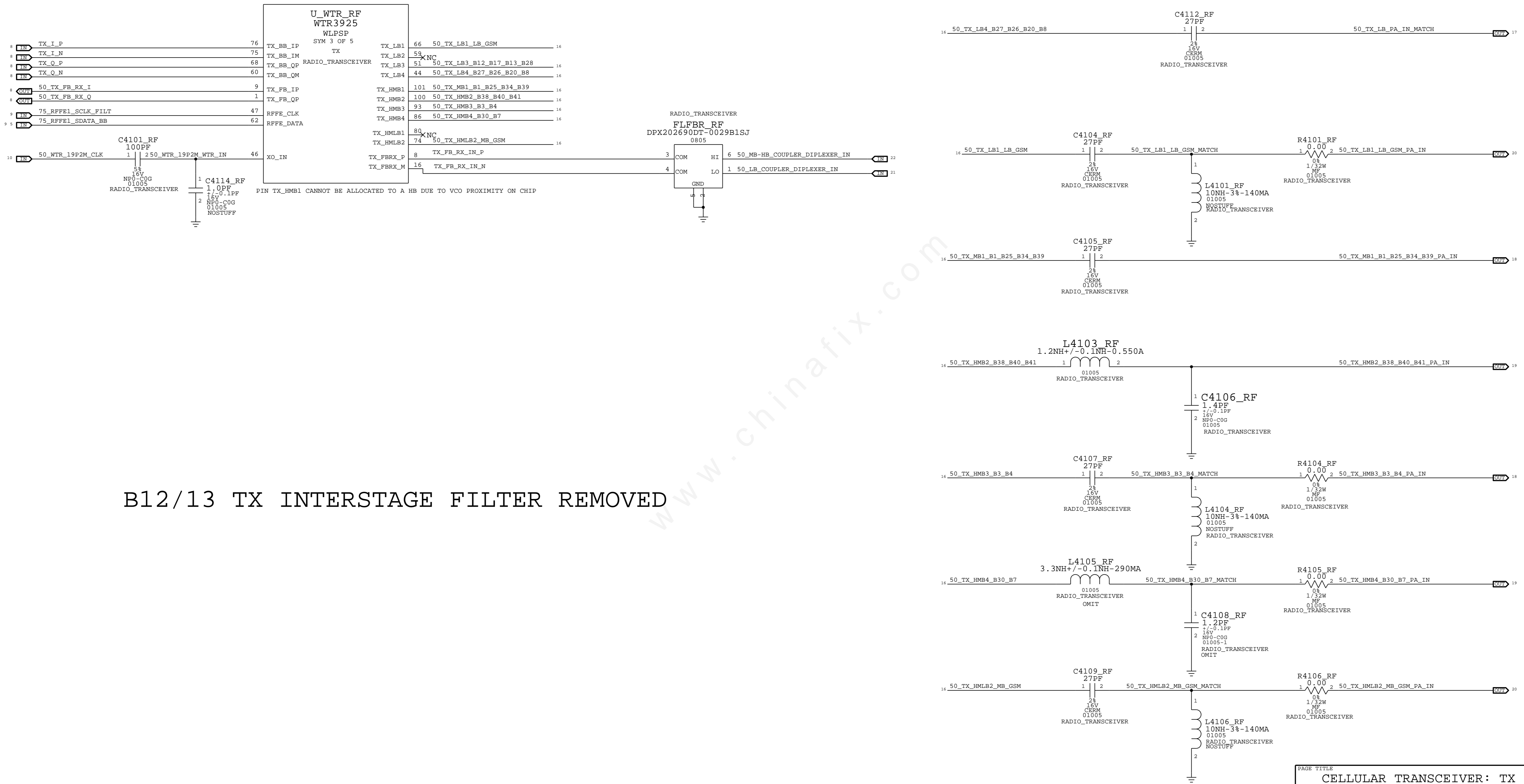
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# TRANSCEIVER: TX PORTS

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B12/13 TX INTERSTAGE FILTER REMOVED

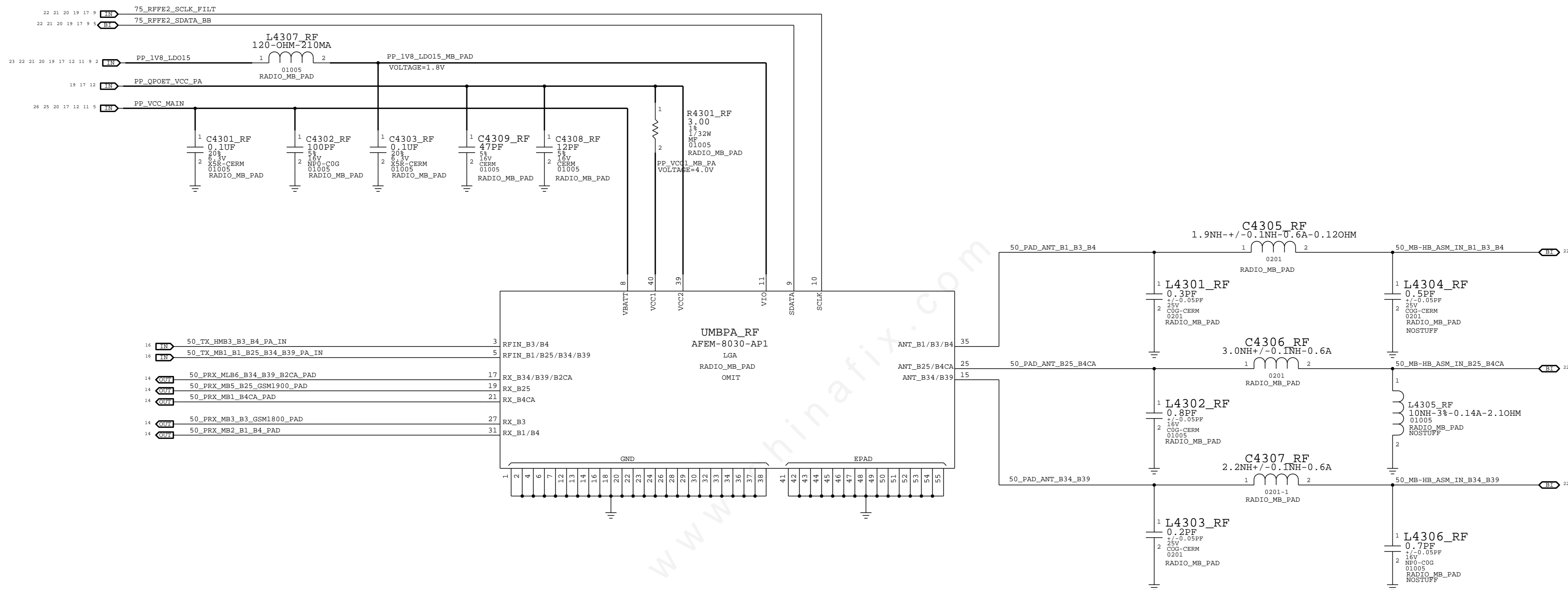
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# MID BAND PA+DUPLEXERS

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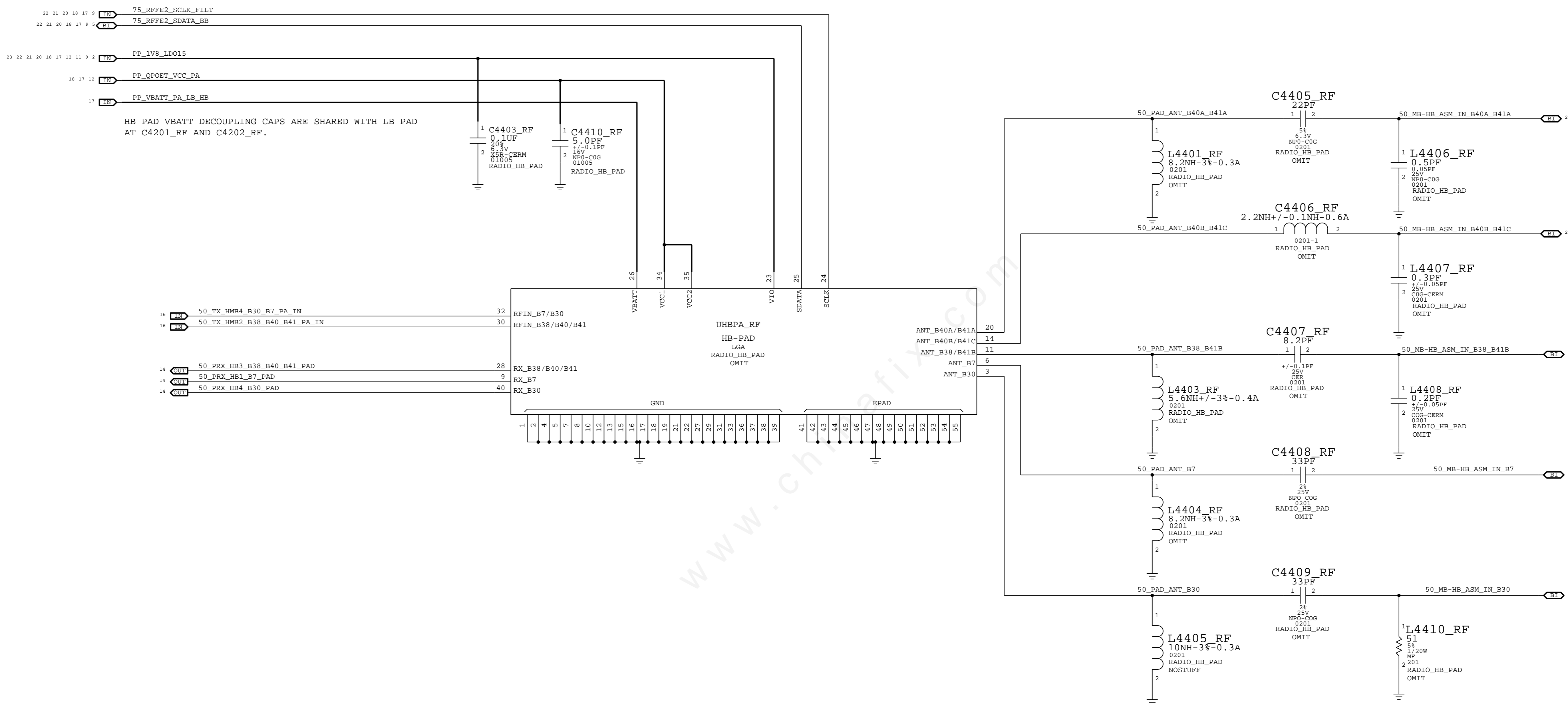


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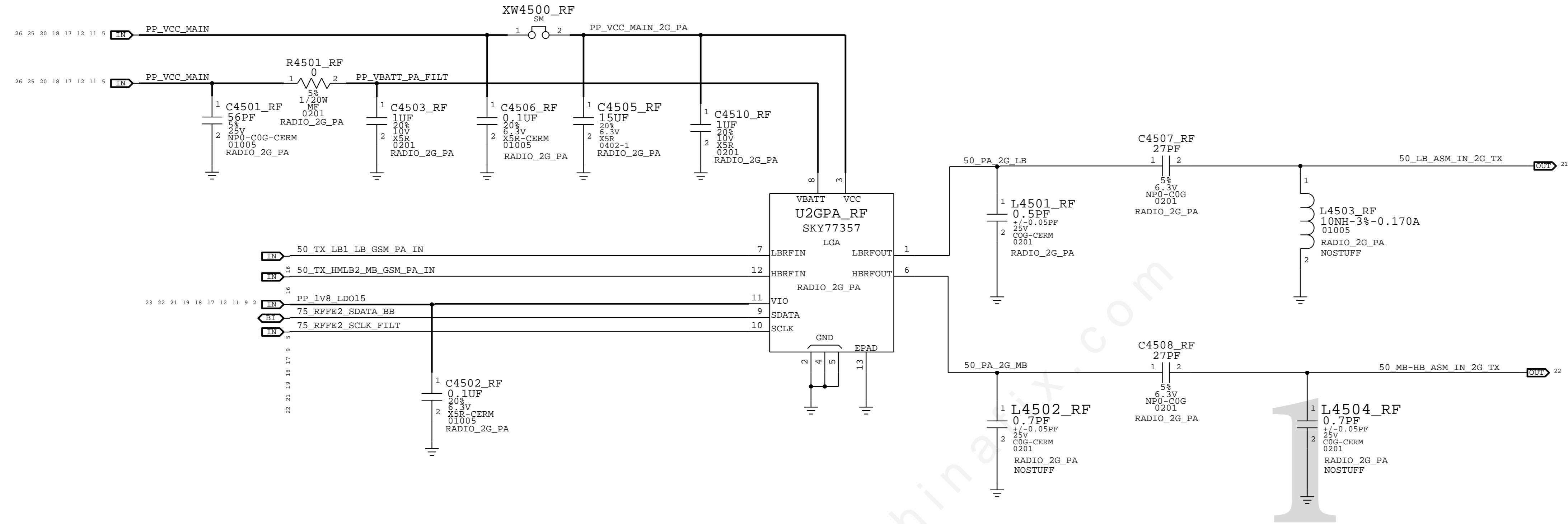
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# 2G PA

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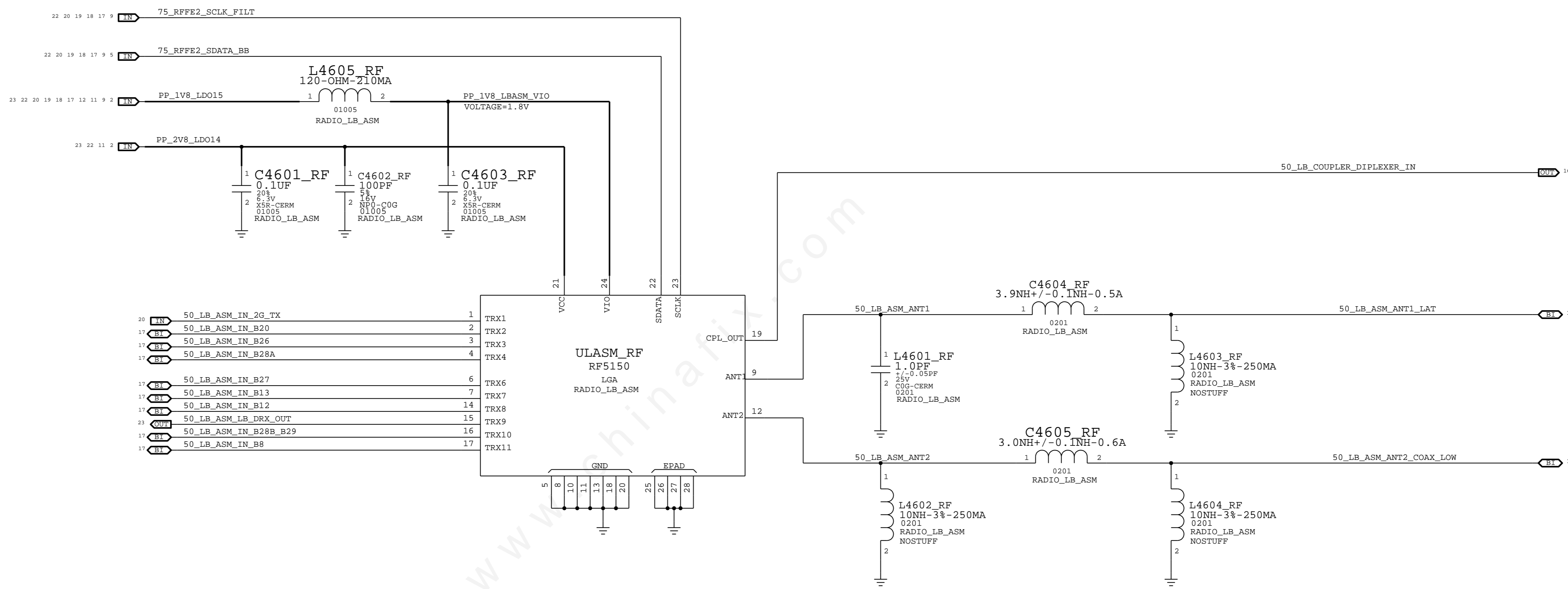
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# LOW BAND ANTENNA SWITCH MODULE

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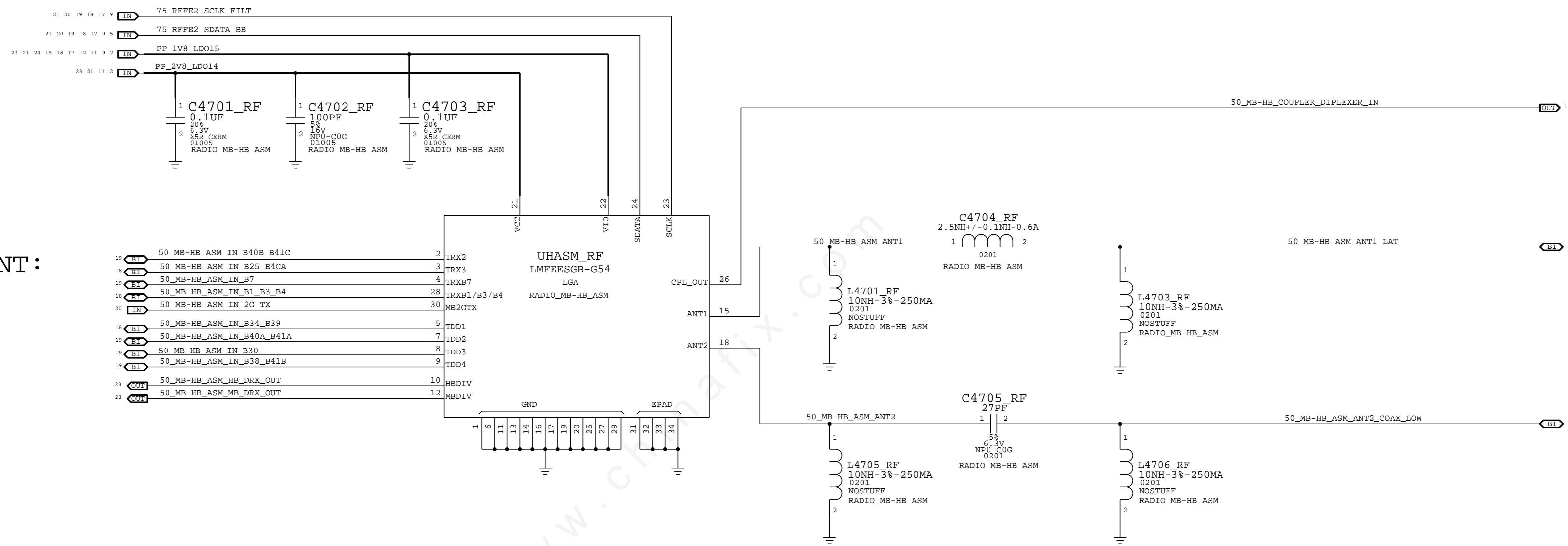
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# MID-HIGH BAND ANTENNA SWITCH MODULE

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

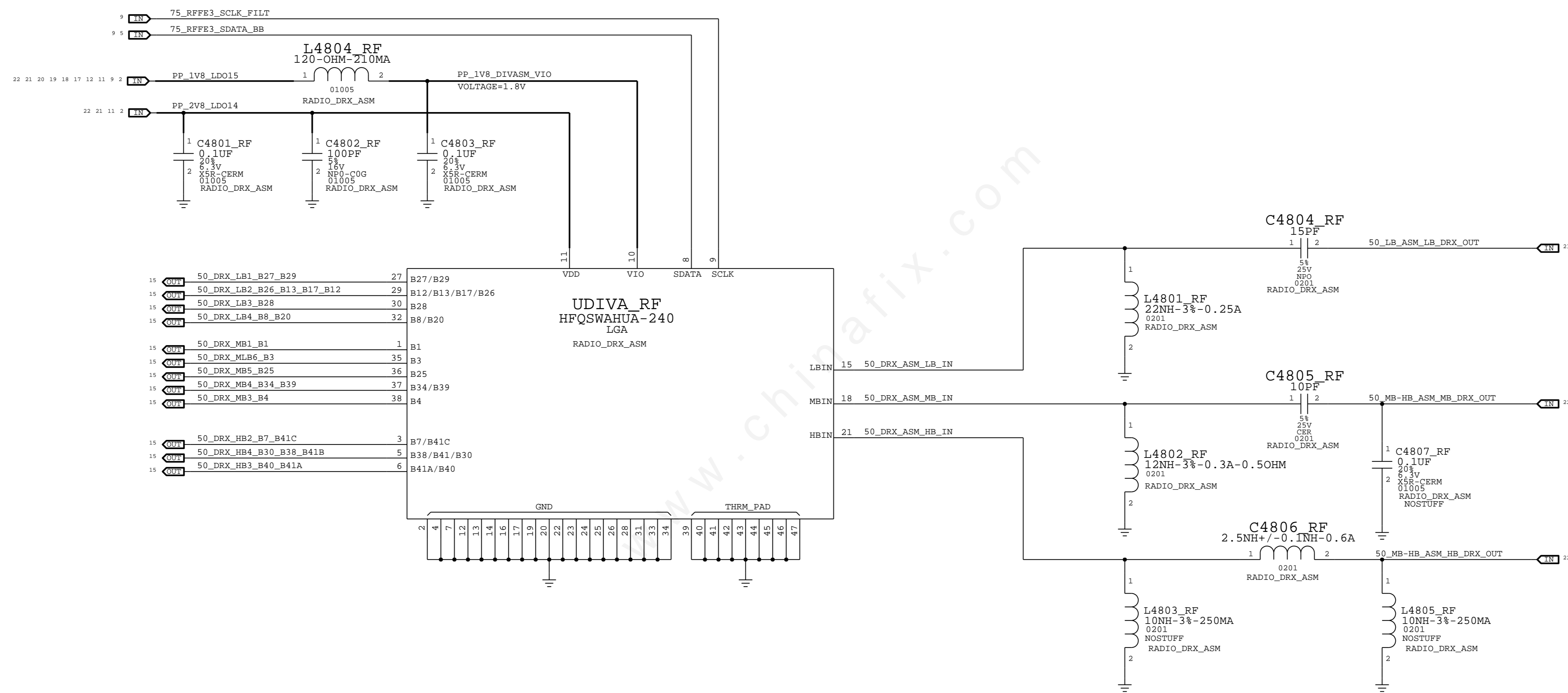


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# DIVERSITY MODULE

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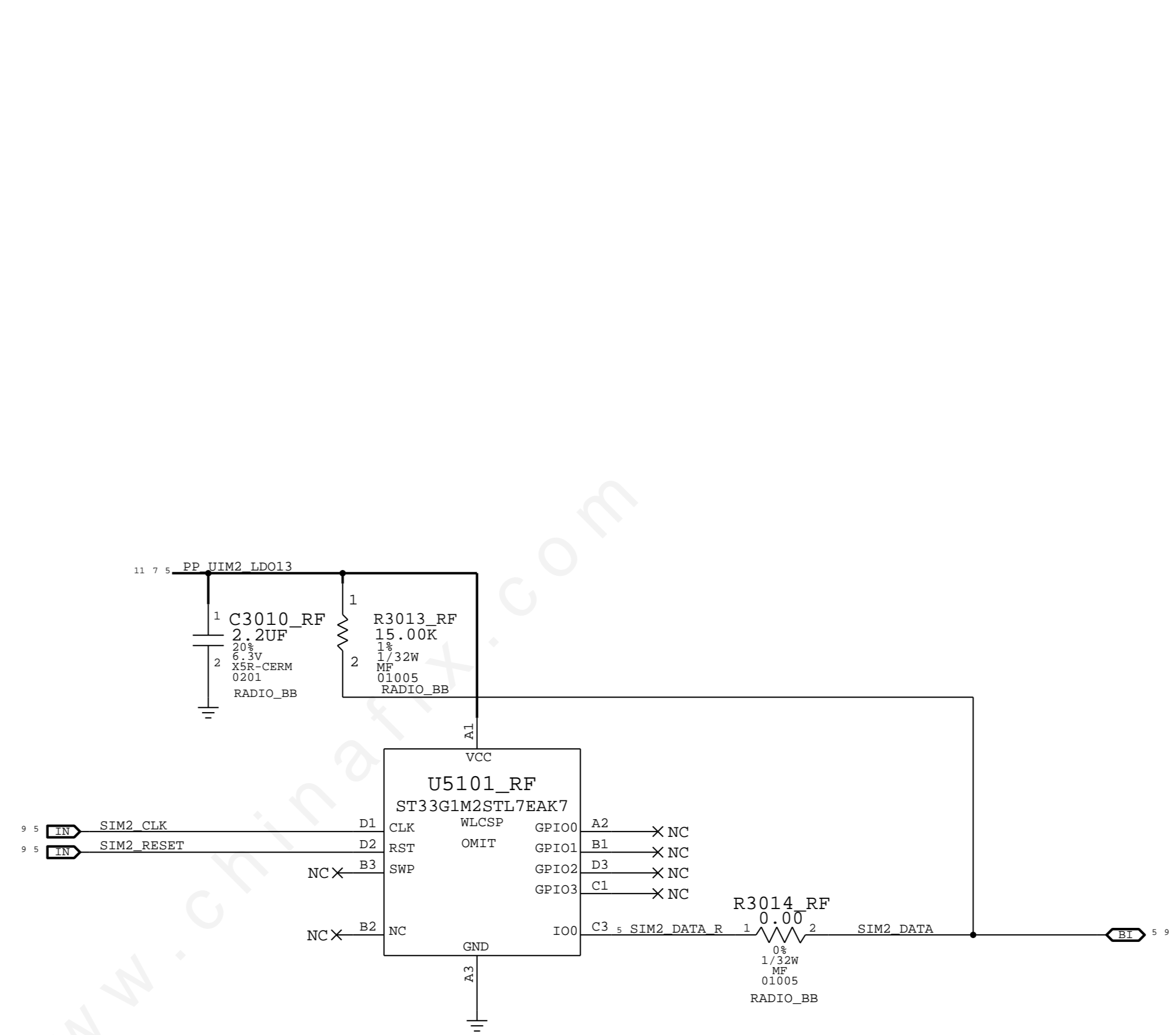
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# SIM

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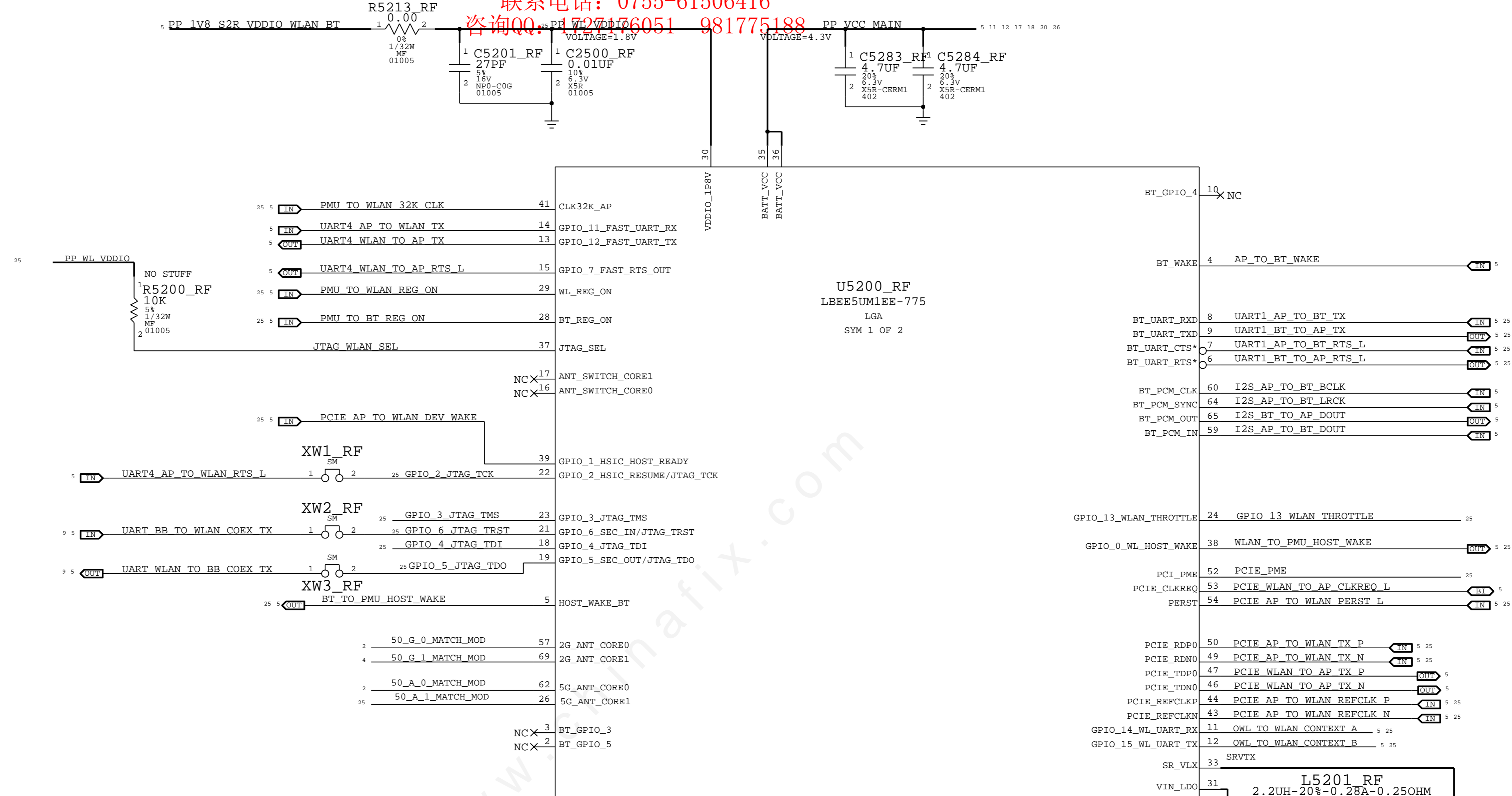
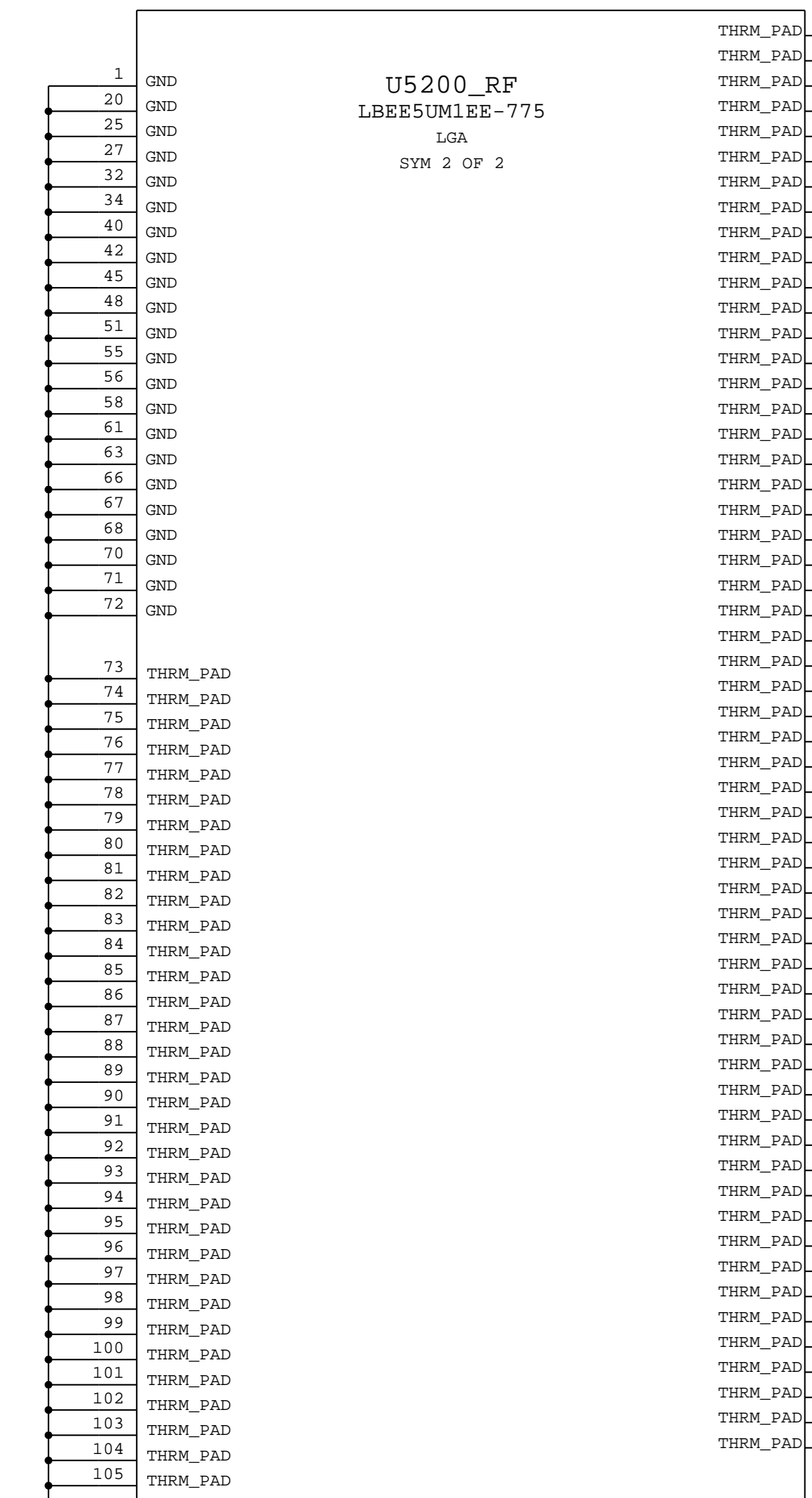


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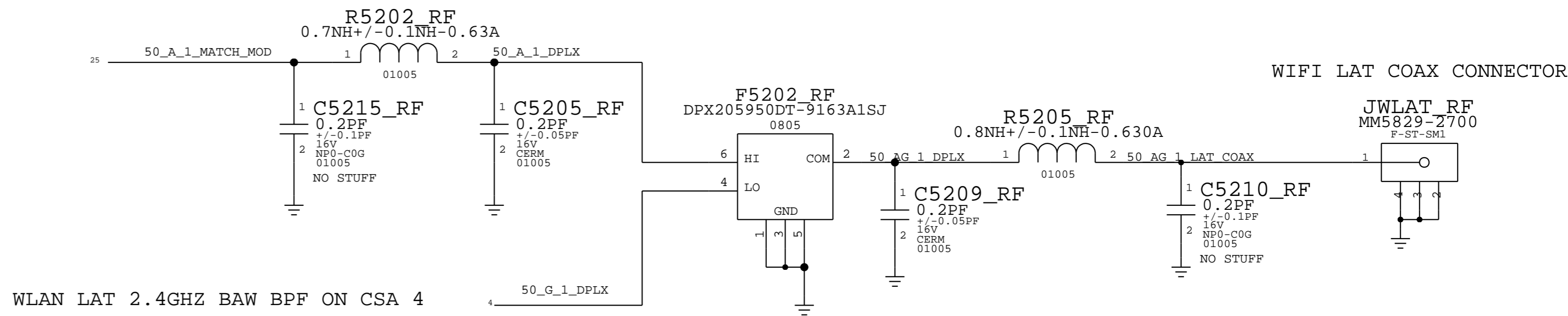
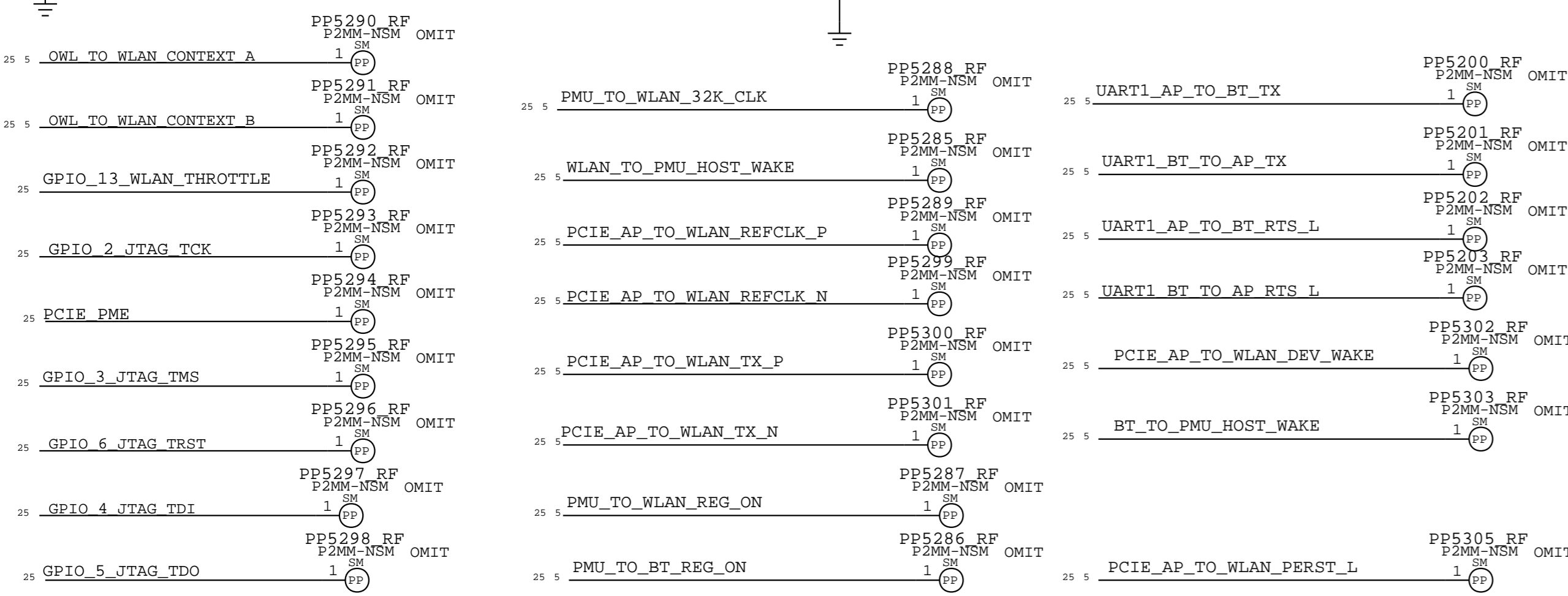
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# WIFI / BT

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PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S00043	339S00033		U5200_RF	ALT WIFI/BT MODULE



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# STOCKHOLM

ALL NETNAMES NEED TO BE CHECKED

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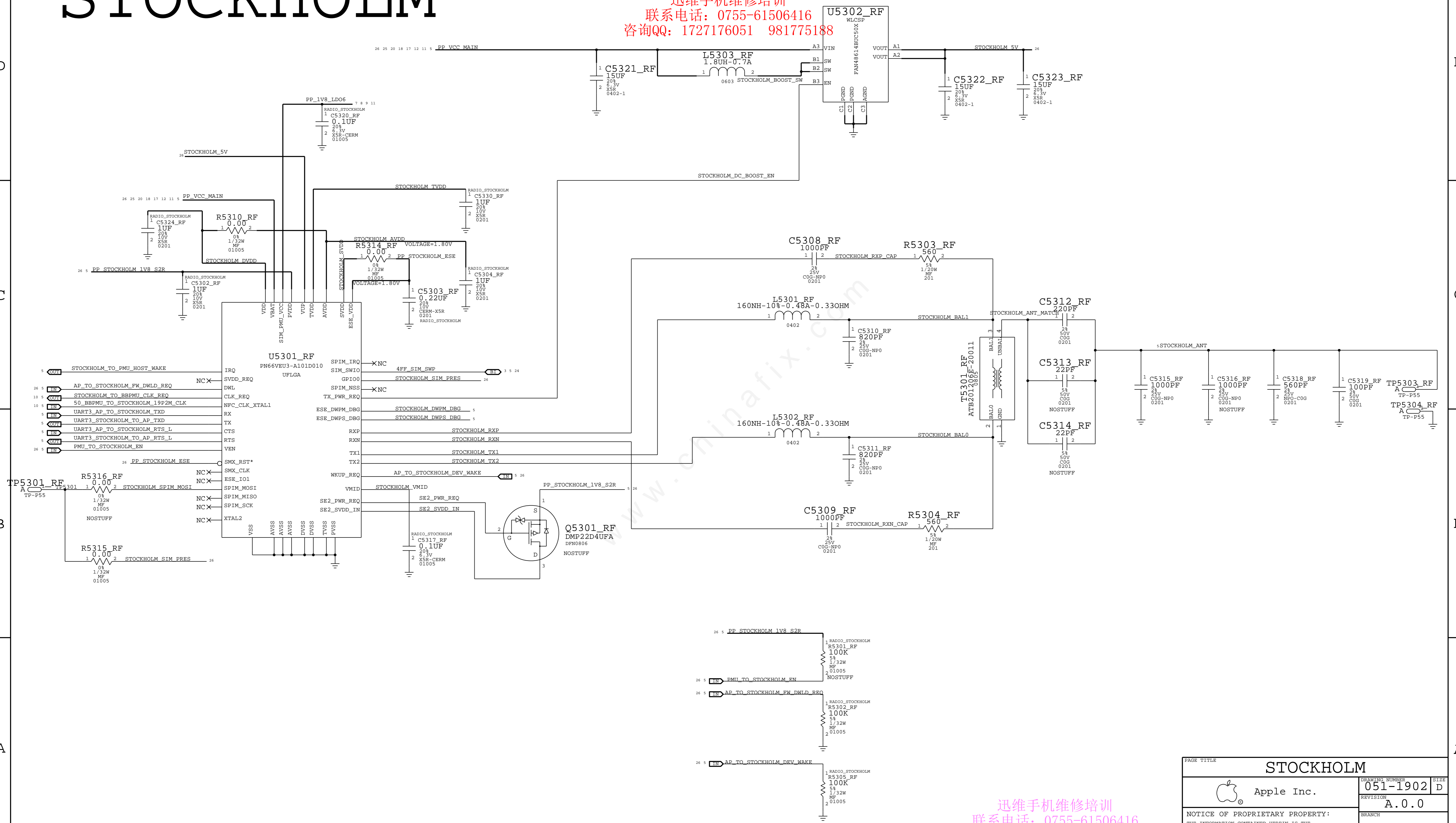
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