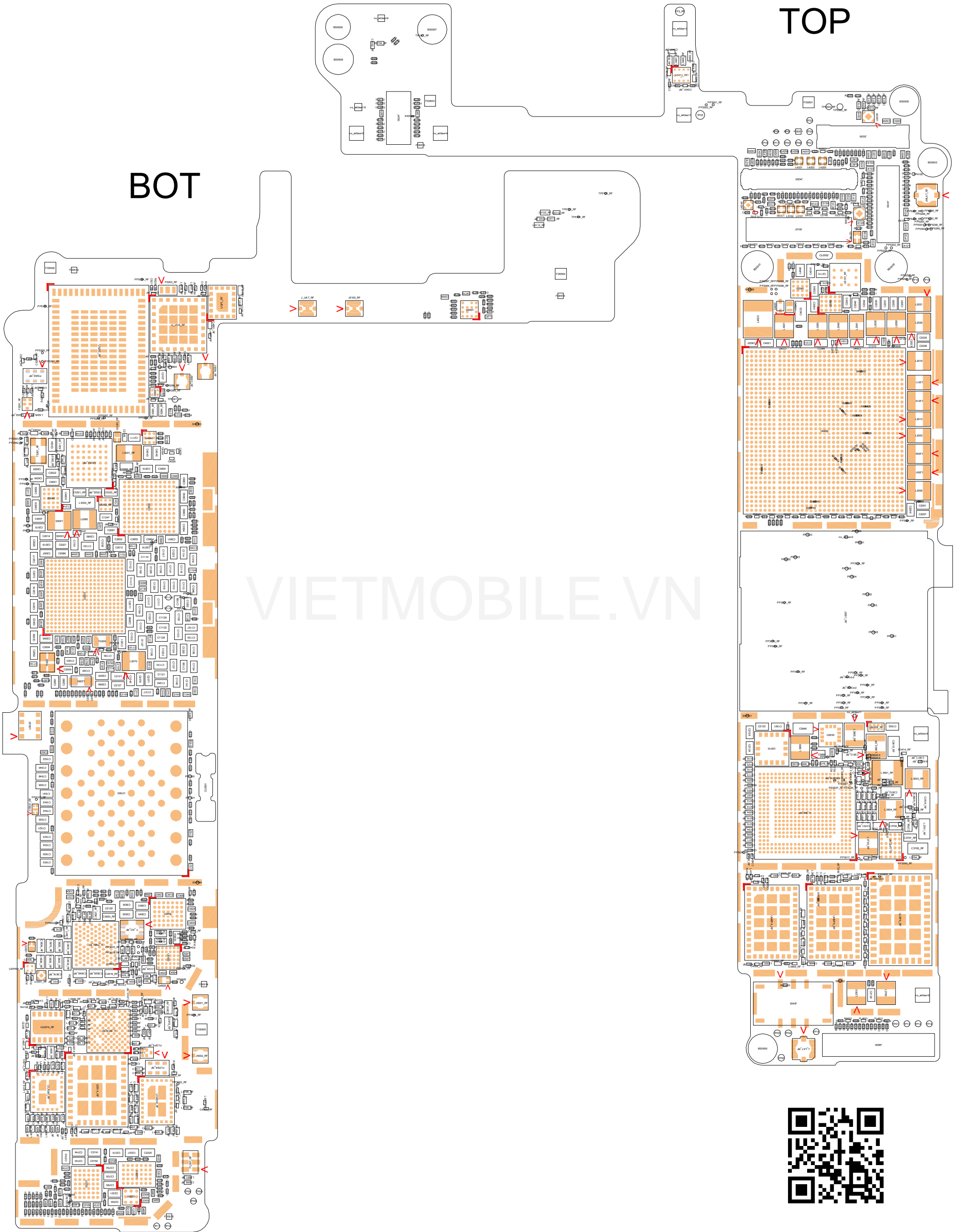


N71位置图



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

| REV | ECN | DESCRIPTION OF REVISION | CK APPD | DATE |
|-----|------------|-------------------------|---------|------------|
| A | 0004536627 | PRODUCTION RELEASED | | 2015-07-21 |

N71 MLB - PVT OK2FAB

LAST_MODIFICATION= Tue Jul 21 11:39:02 2015


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- MCO 056-01060
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- 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)
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| DRAWING TITLE | | SCHEM, SINGLE, BRD, N71 | |
|  Apple Inc. | DRAWING NUMBER | 051-1902 | SIZE |
| | REVISION | A.0.0 | D |
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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_GR09 | 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_MLB_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 | TKX, VARISTOR, 6.3V, 100PF, 01005 |
| 155S00067 | 155S0581 | ALTERNATE | FL4200 | TKX, FERR, 240-OHM, 0201 |
| 155S00012 | 155S00009 | ALTERNATE | L3100 | MURATA, CHOKER, 65-OHM, 0605 |
| 138S0706 | 138S0739 | ALTERNATE | C3302_RF | ROHM, CAP, CER, 10P, 20%_100, 0201 |
| 138S0945 | 138S0739 | ALTERNATE | C3302_RF | KYOCERA, CAP, CER, 10P, 20%_100, 0201 |
| 155S00095 | 155S00068 | ALTERNATE | FL1280 | FERR, 80, 100 OHM, 20%_100MA, 3 OHM, 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, 100 OHM, 20%_100MA, 4 OHM, 01005 |
| 138S00024 | 138S0986 | ALTERNATE | C1107 | CAP, CER, 3-TERM, 7.5UF, 20%, 4V, 0402 |
| 335S00066 | 335S0946 | ALTERNATE | U0900 | IC, EEPROM, 16KBX, 1.8V, 132, MLC594 |
| 155S0653 | 155S0511 | ALTERNATE | FL4600 | FERR, 80, 31 OHM, 20%_100MA, 0.05028, 0201 |

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_G255A1_07P-AL_MGCEP380 | 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_G255A1_07P-AL_MGCEP380 | 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_MALTA,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, ATR |
| 339S00126 | 339S00124 | MALTA | U0600 | M PROD FUSED, S DRAM, ATR |
| 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 |

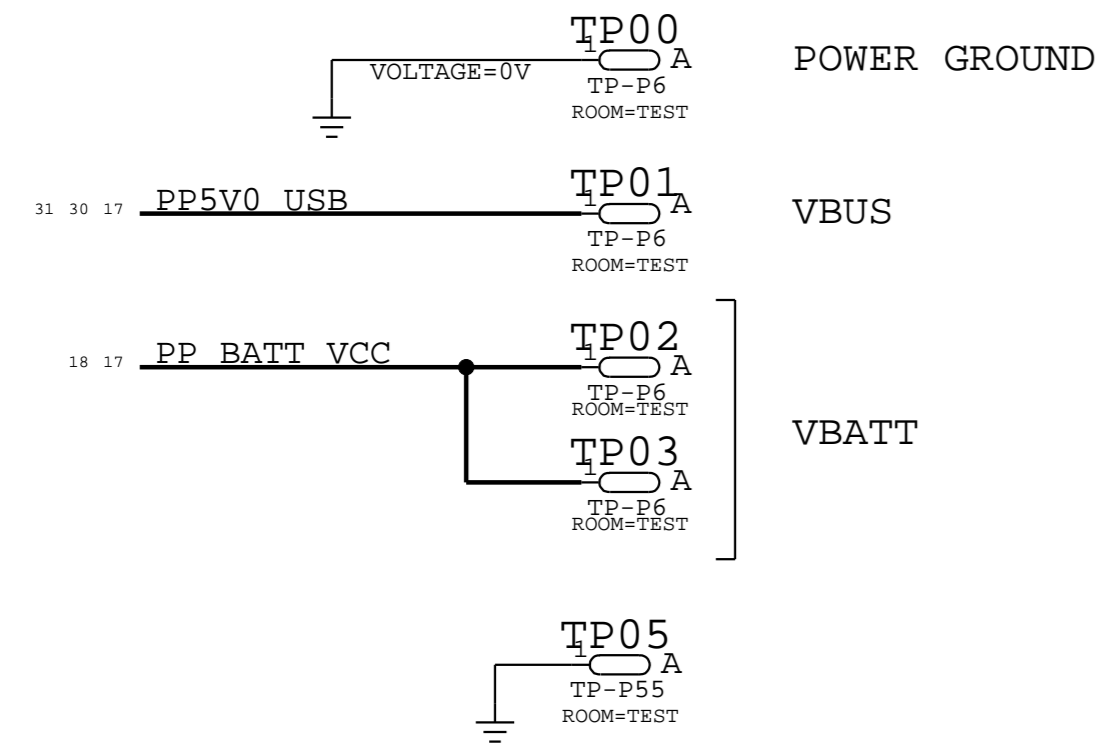
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|-----------|-----|---|-------------------------------------|------------|
| 152S00117 | 6 | IND_PWR_SHLD_1.00H_3.6A_0.060 OHM,2016 | L2000,L2002,L2010,L2011,L2020,L2030 | TAIYO |
| 152S00117 | 5 | IND_PWR_SHLD_1.00H_3.6A_0.060 OHM,2016 | L2040,L2050,L2090,L3300,L4021 | 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 |

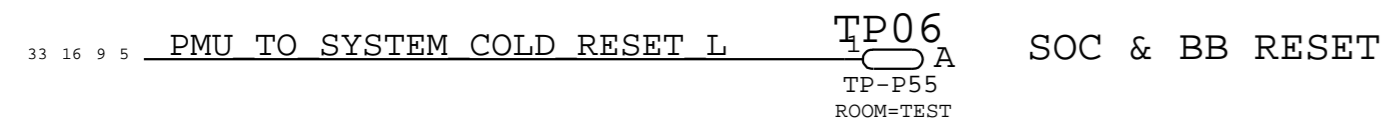
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TESTPOINTS

POWER



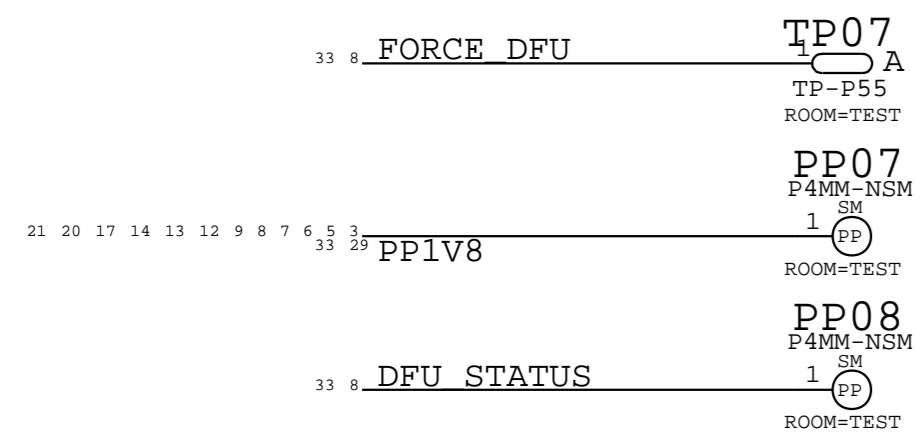
RESET



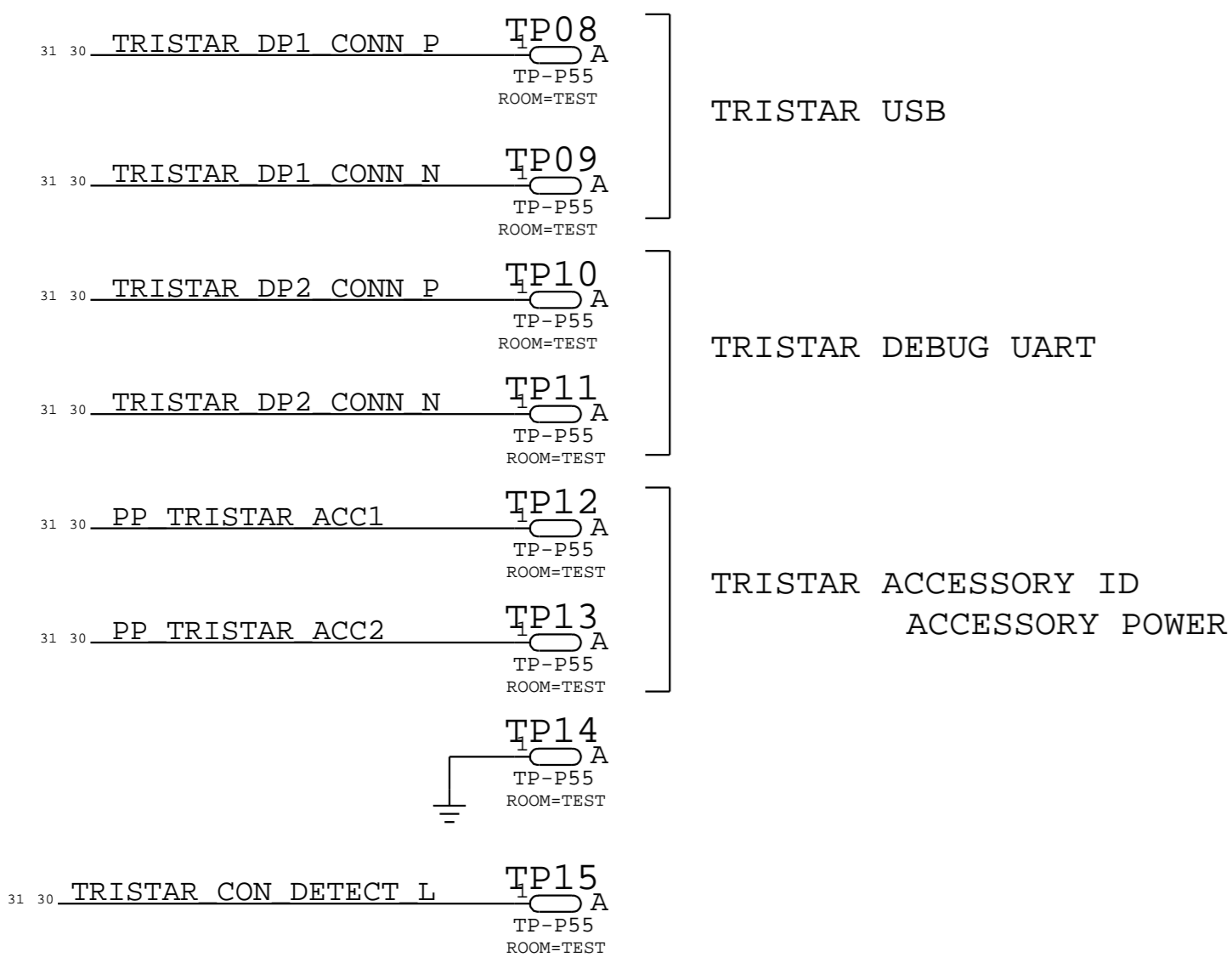
DFU

FORCE DFU PROCEDURE:

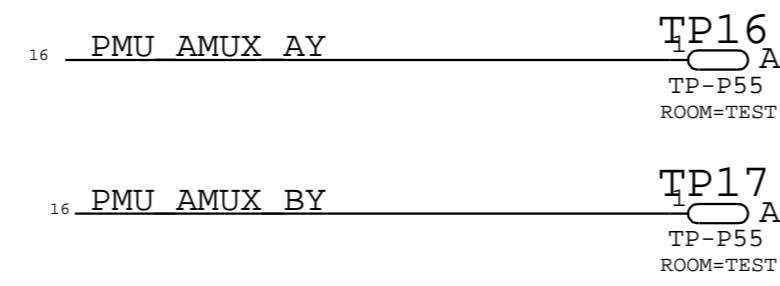
1. FROM OFF MODE SHORT TP07 TO PP07
2. PLUG IN E75 CABLE TO FORCE DFU



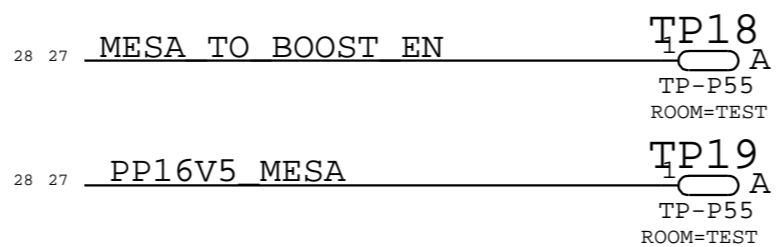
E75



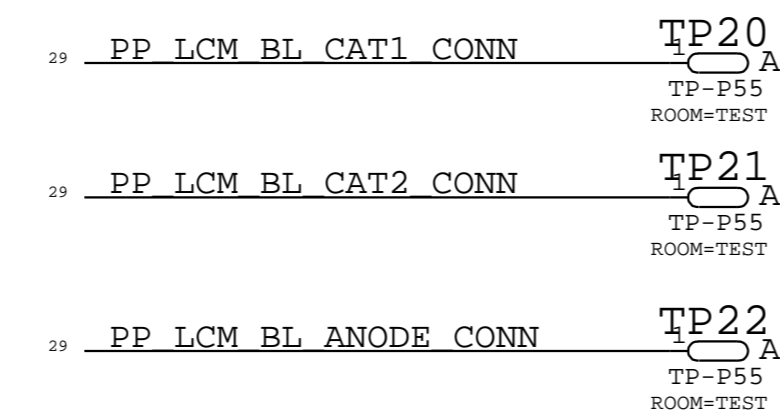
AMUX



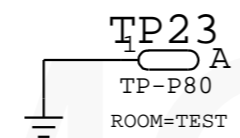
MOJAVE



LCM



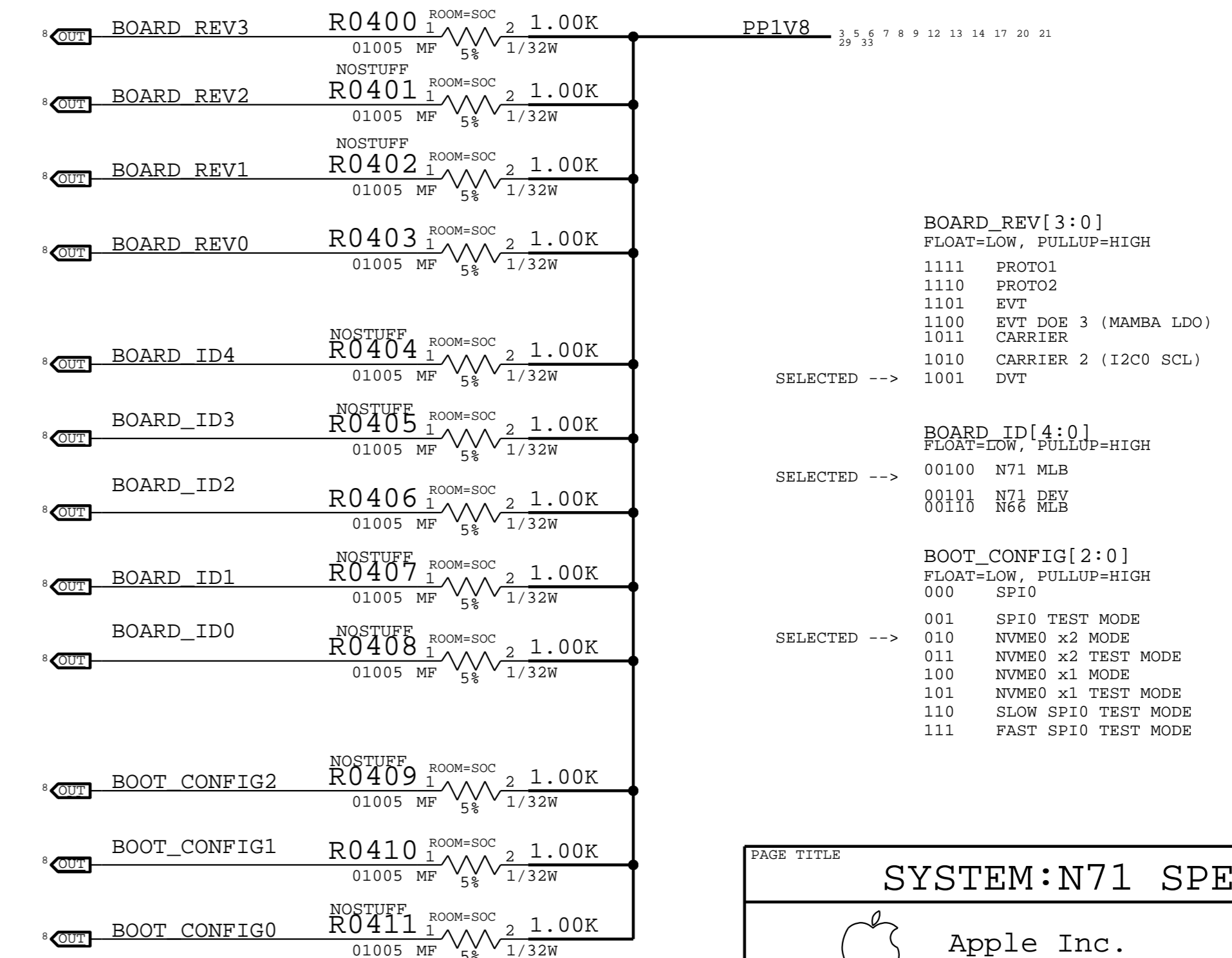
SUPER SCREW



N71 I2C DEVICE MAP

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

BOOTSTRAPPING: BOARD REV BOARD ID BOOT CONFIG



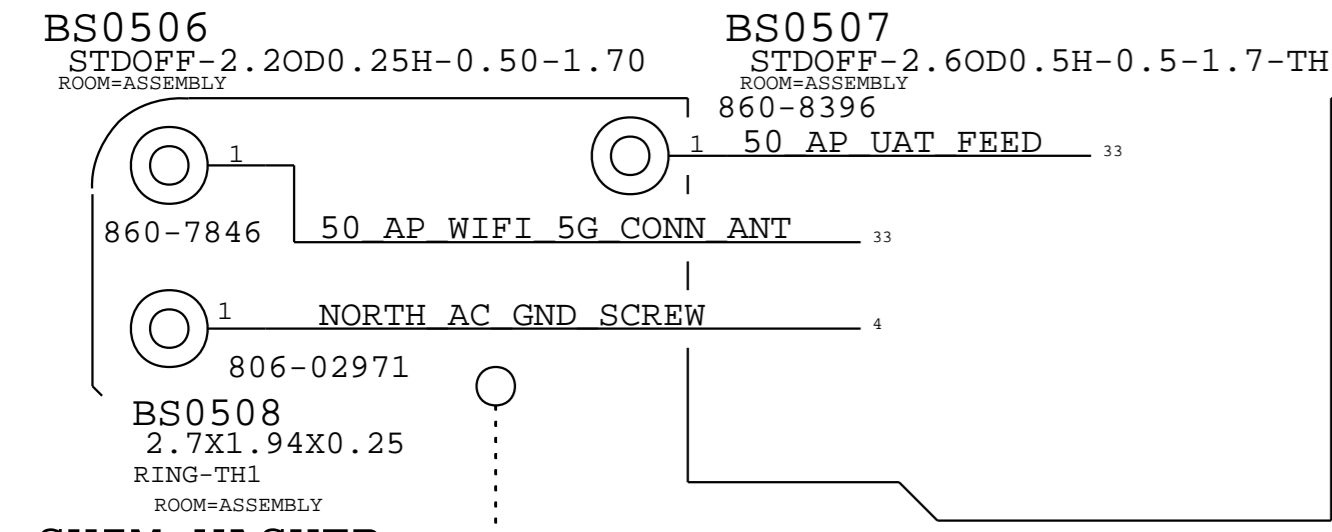
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RESISTOR NOSTUFF = LOW '0'

| PAGE TITLE | | DRAWING NUMBER | SIZE |
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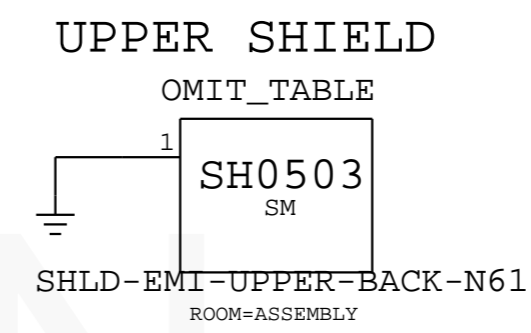
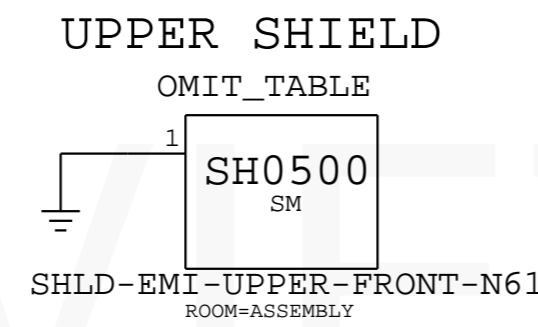
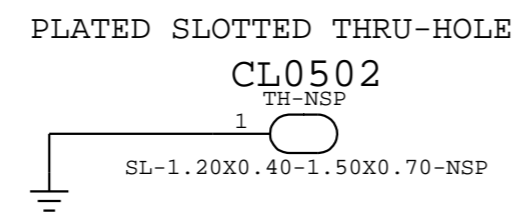
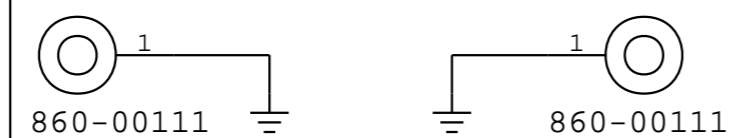
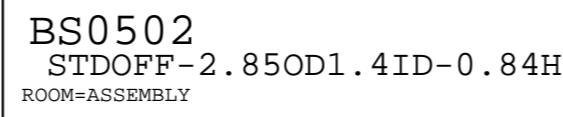
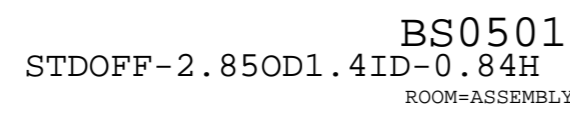
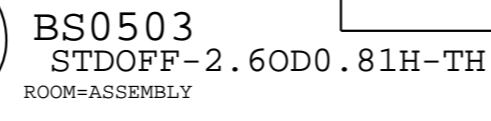
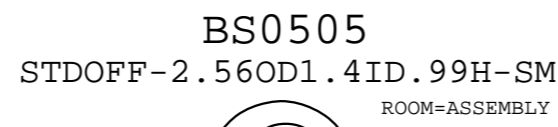
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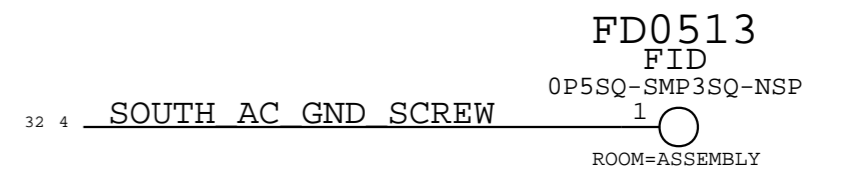
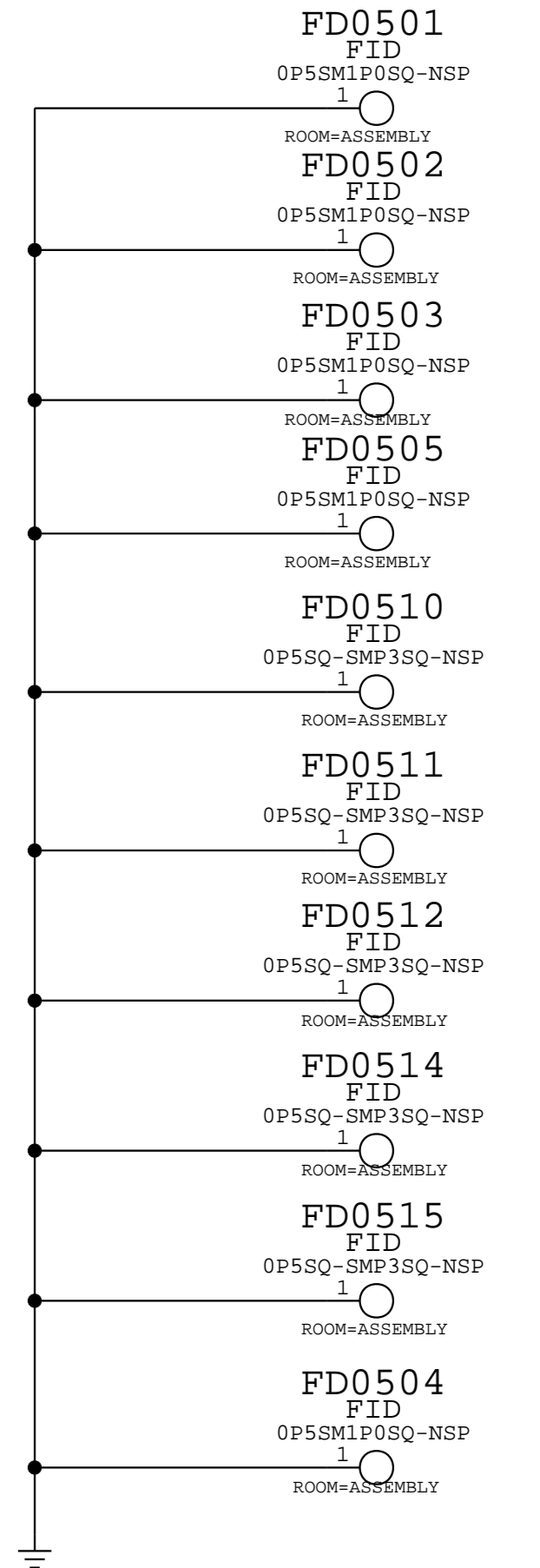
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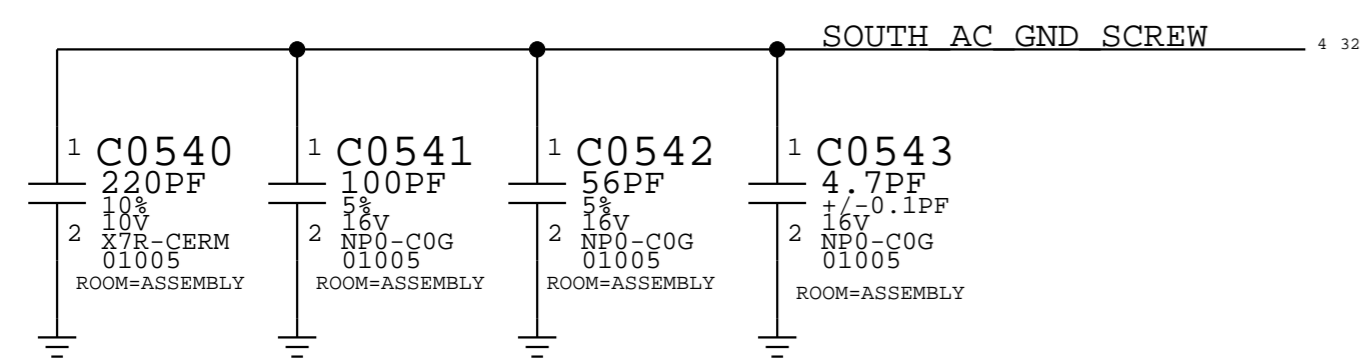
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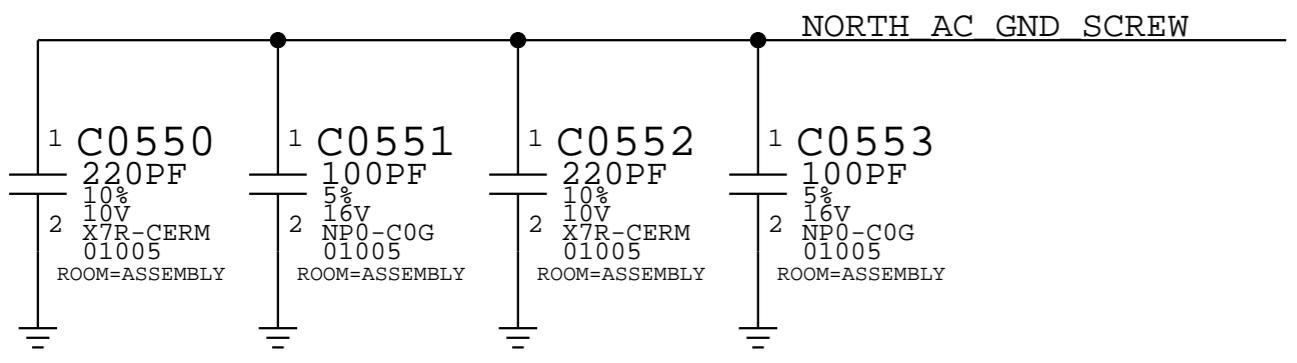
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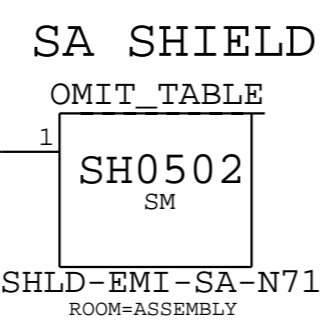
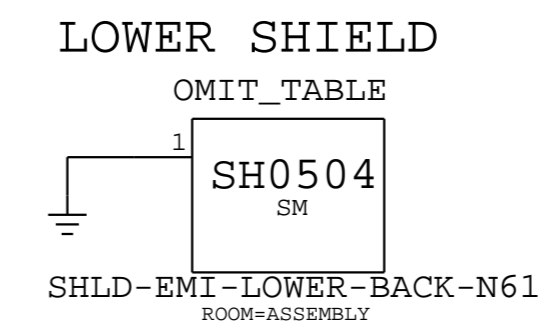
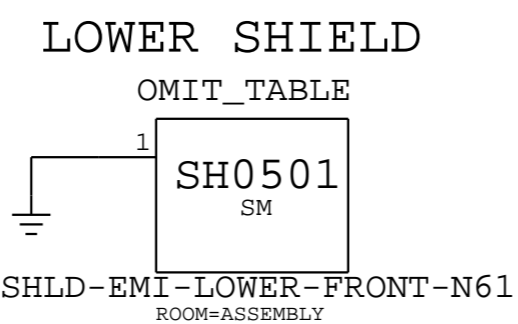
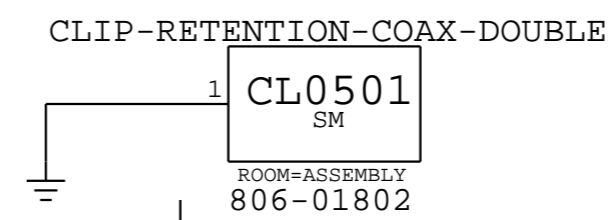
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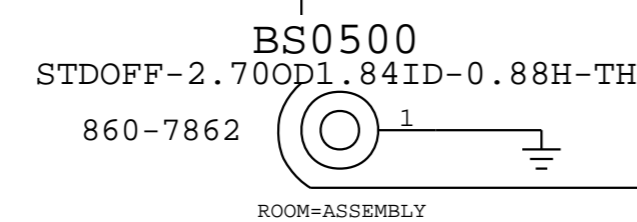
NORTH DC CURRENT BLOCKING CAPS



DUAL RF COAX CLIP



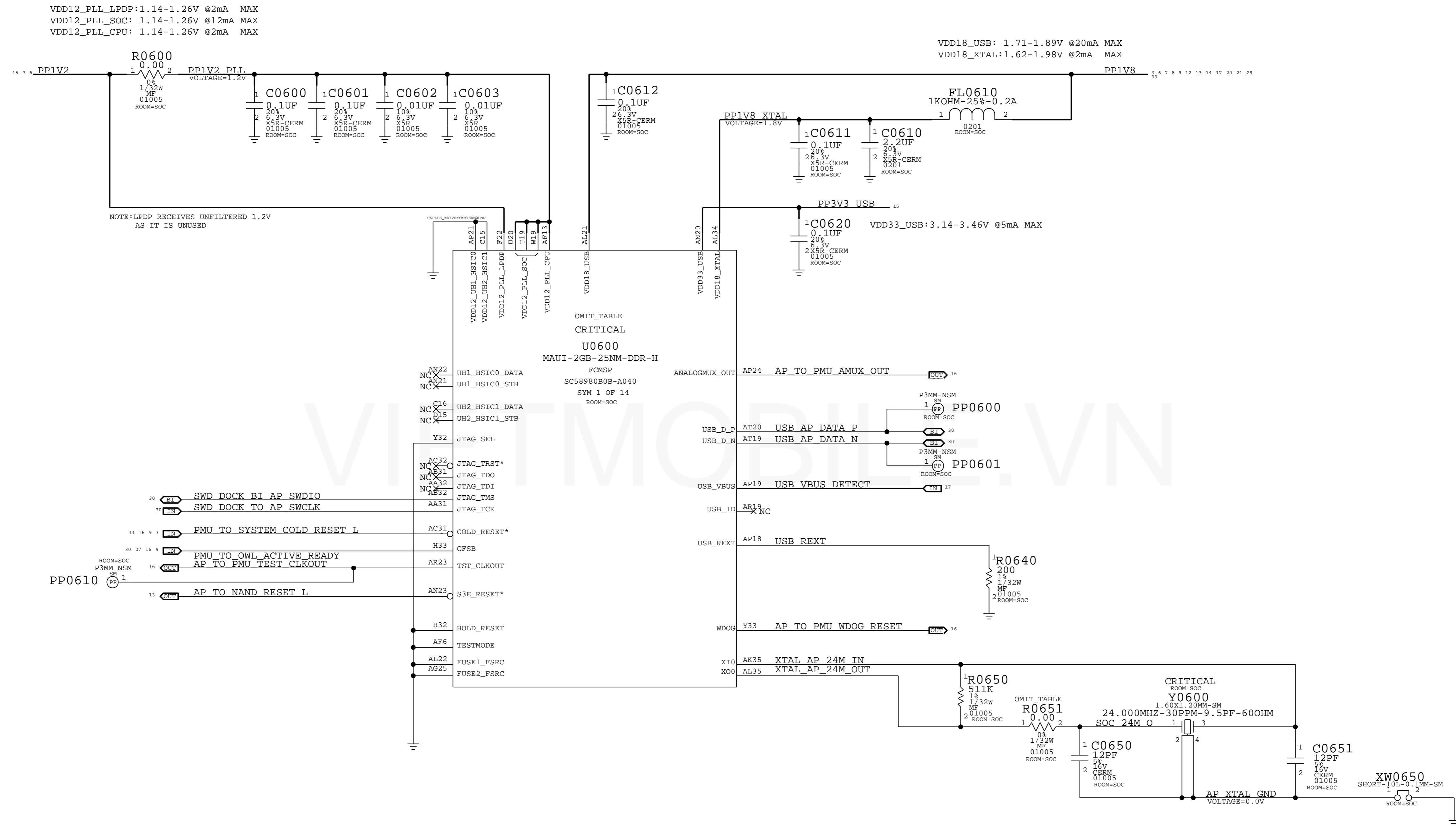
SOUTH TUBE STANDOFF



TODO:UPDATE REF DES

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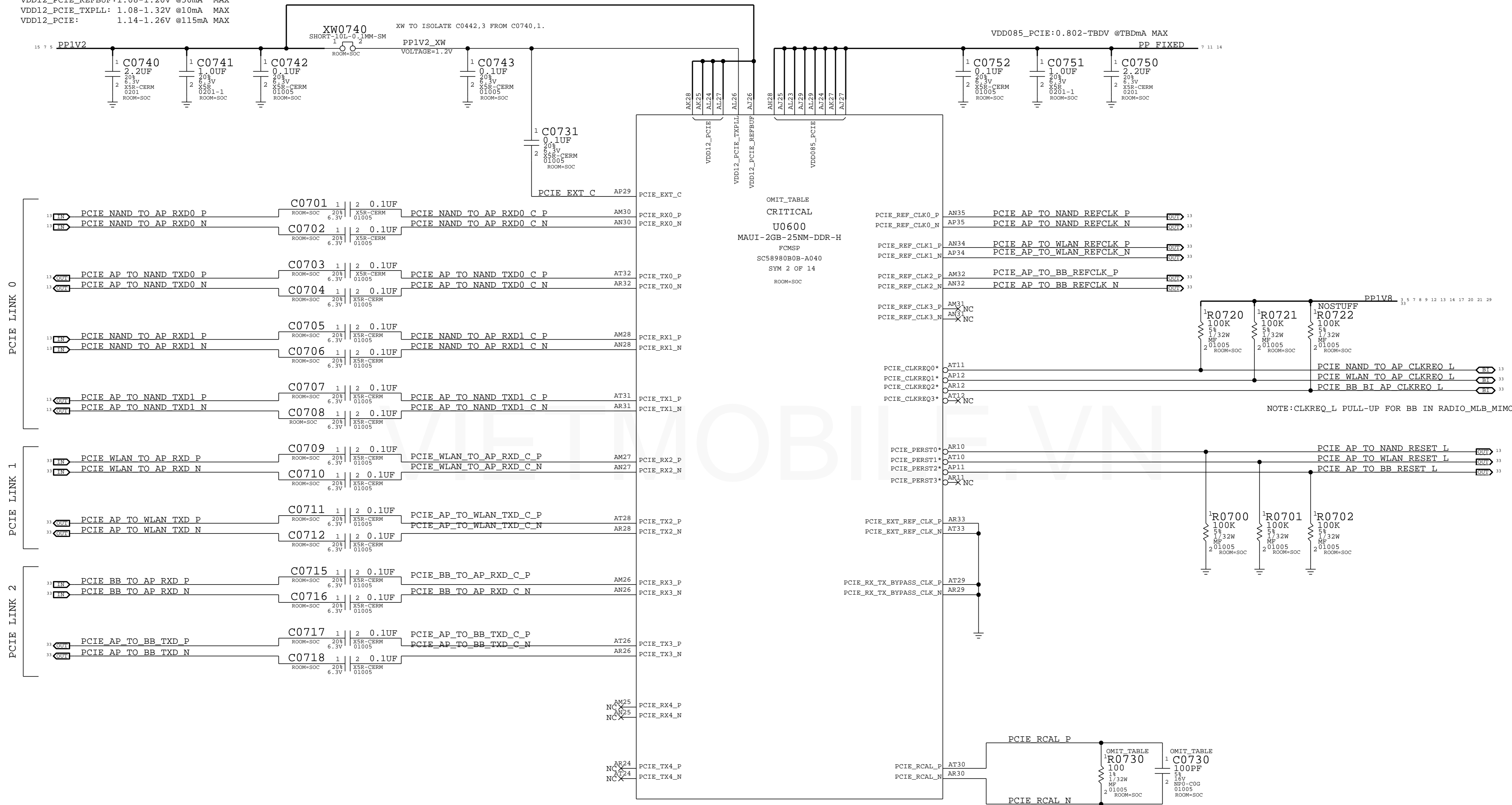
MAUI - USB, JTAG, XTAL



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| Apple Inc. | DRAWING NUMBER | SIZE | |
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MAUI - PCIE INTERFACES

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



| | | | |
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| SOC:PCIE | | | |
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| | | SHEET | 6 OF 59 |

MAUI - CAMERA & DISPLAY INTERFACES

8

7

6

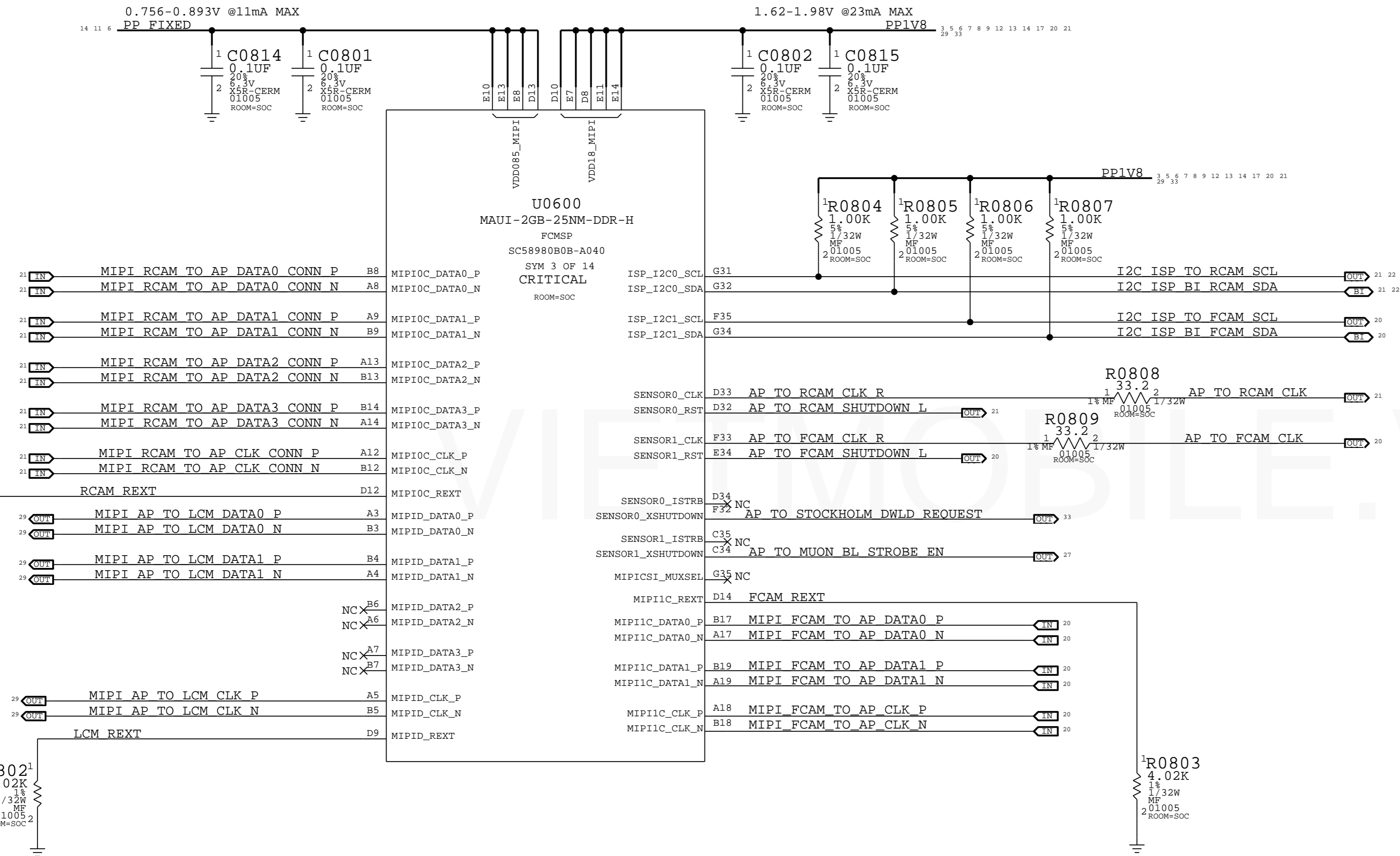
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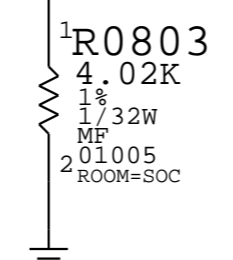
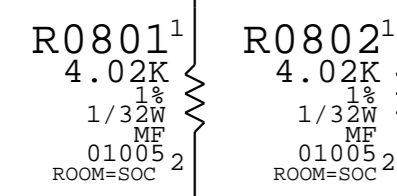
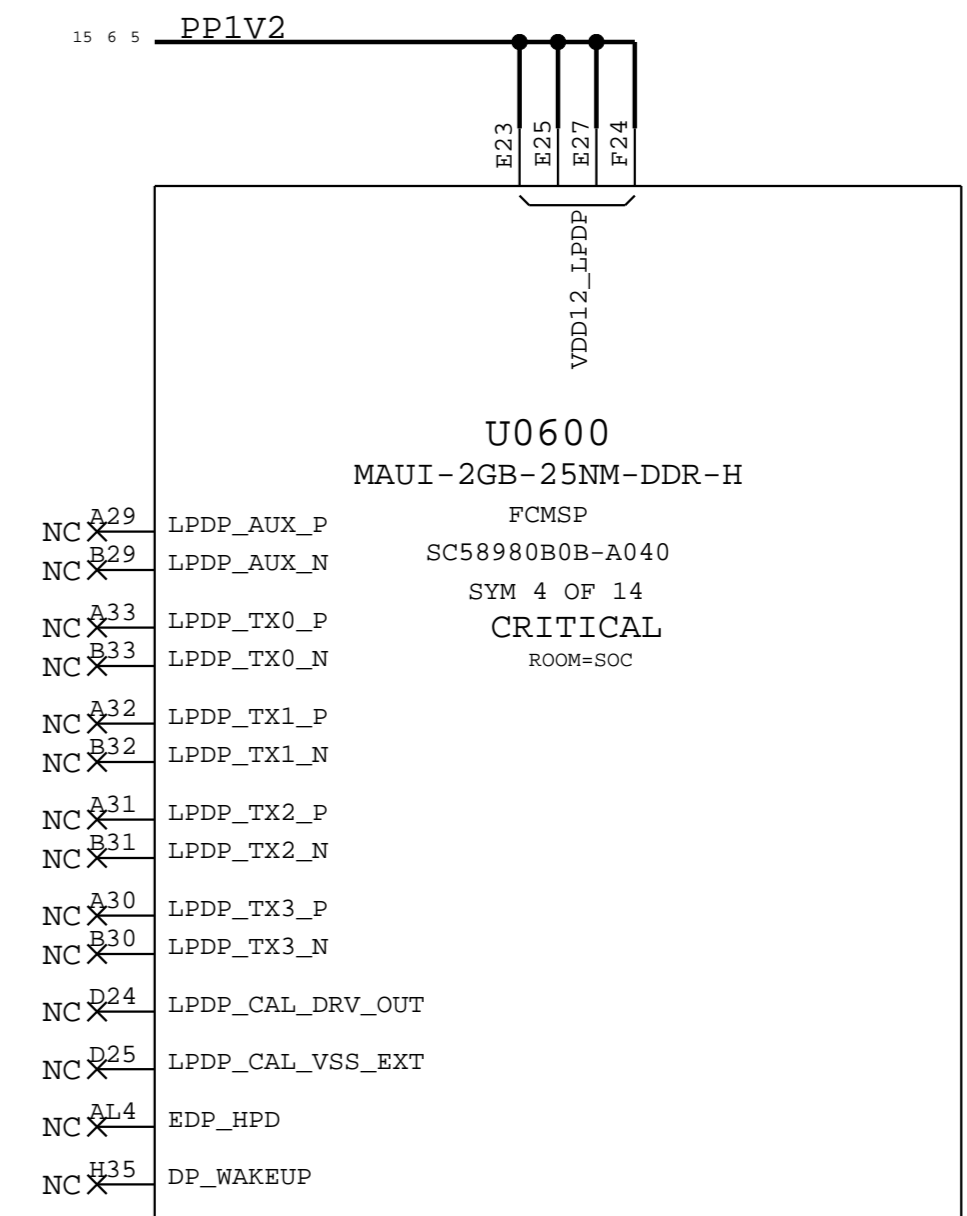
3

2

1



NOTE: VDD12_LPDP SHOULD BE POWERED
EVEN WHEN LPDP IS NOT USED



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| | | SHEET | 7 OF 59 |

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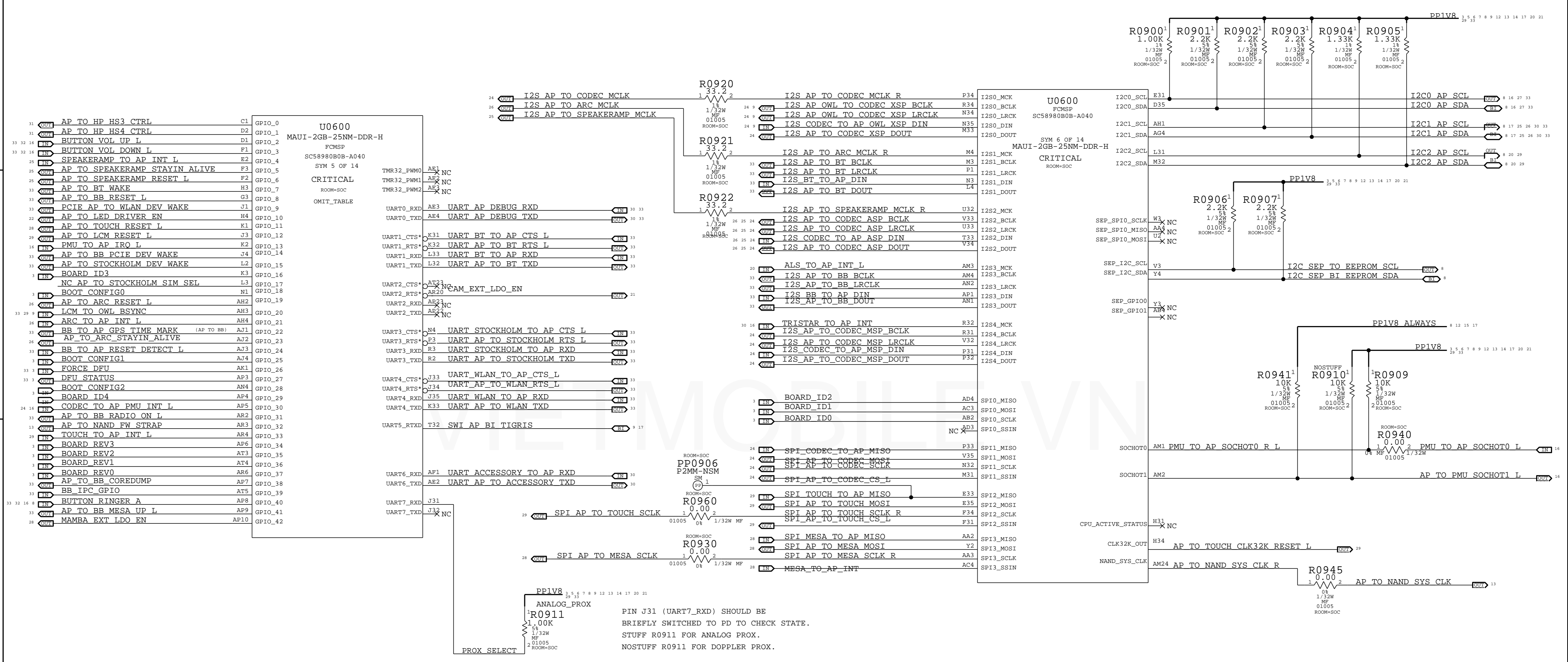
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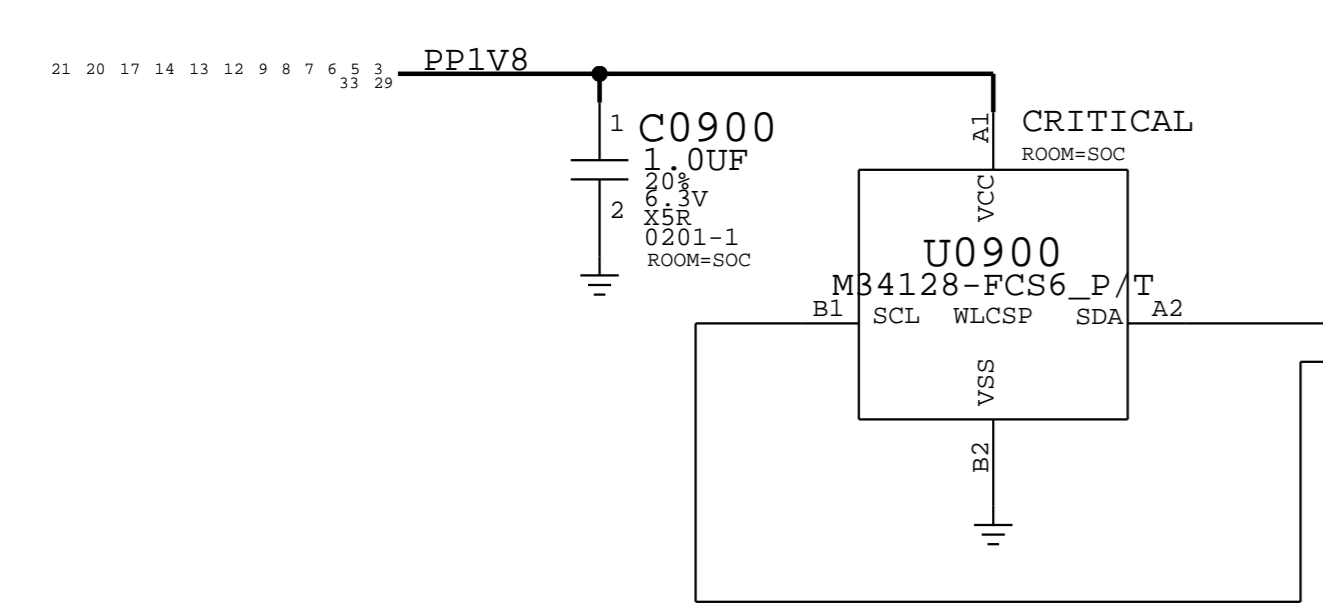
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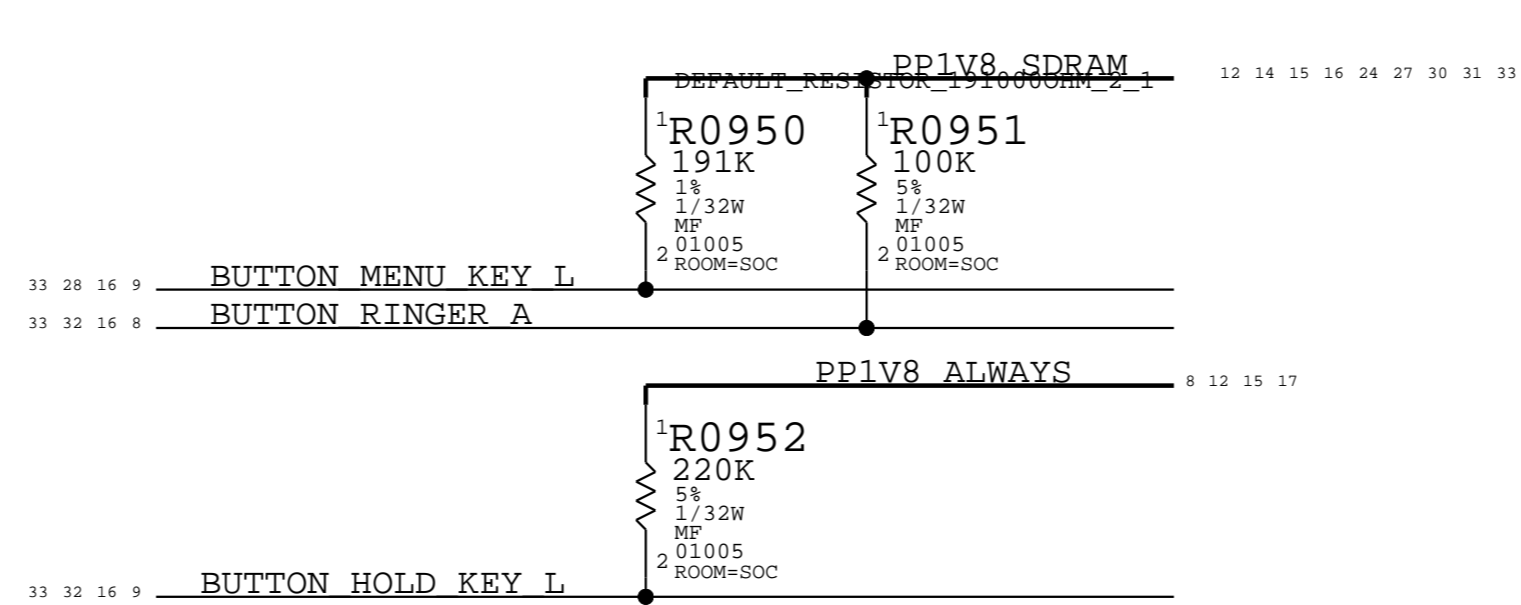
MAUI - GPIO & SERIAL INTERFACES



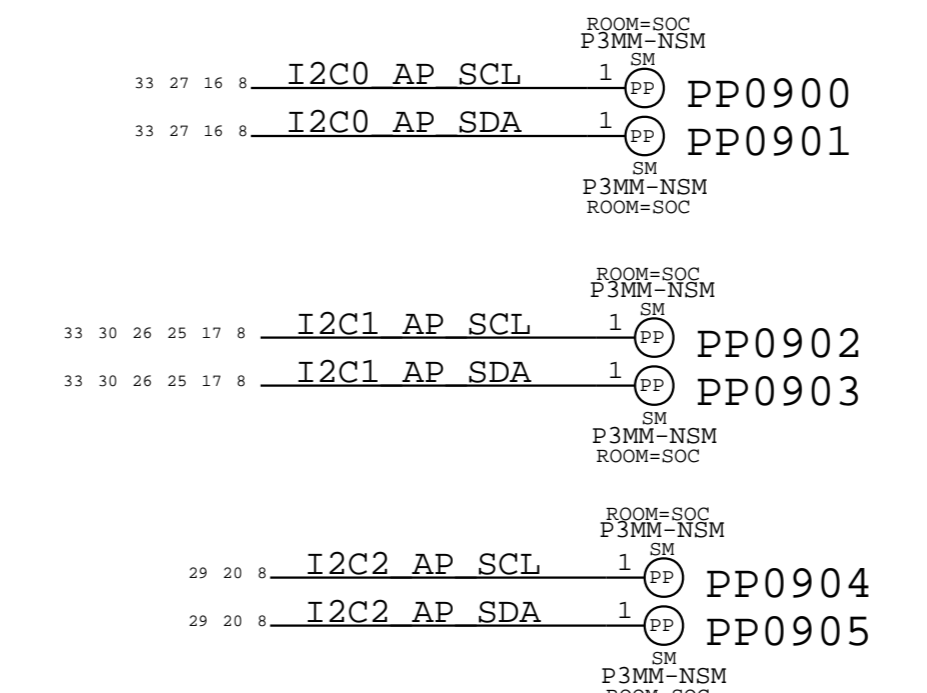
ANTI-ROLLBACK EEPROM
 128kbit
 APN:335S0946



BUTTON PULL-UP RESISTORS



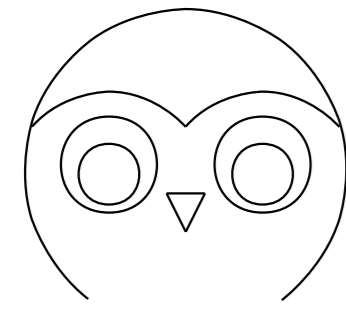
I2C PROBE POINTS



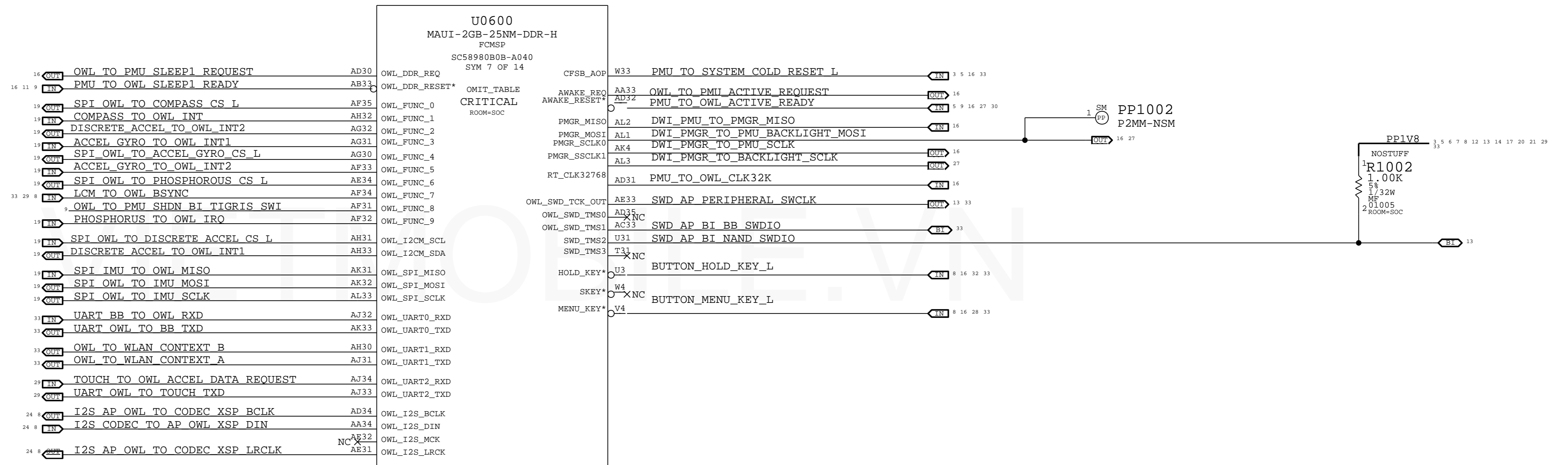
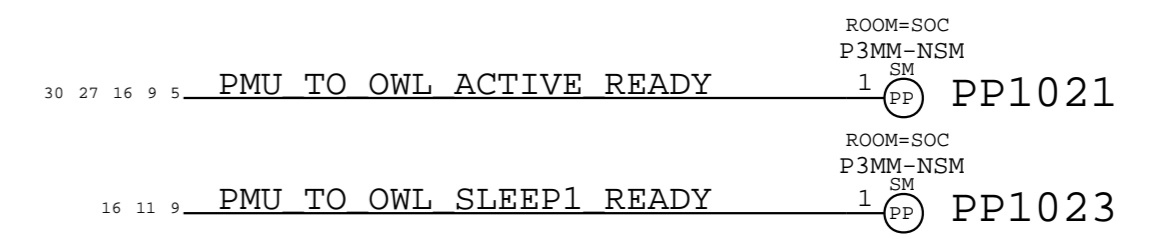
PIN J31 (UART7_RXD) SHOULD BE BRIEFLY SWITCHED TO PD TO CHECK STATE. STUFF R0911 FOR ANALOG PROX. NOSTUFF R0911 FOR DOPPLER PROX.

| | | | |
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| SOC:SERIAL & GPIO | | | |
| Apple Inc. | | DRAWING NUMBER | SIZE |
| | | 051-1902 | D |
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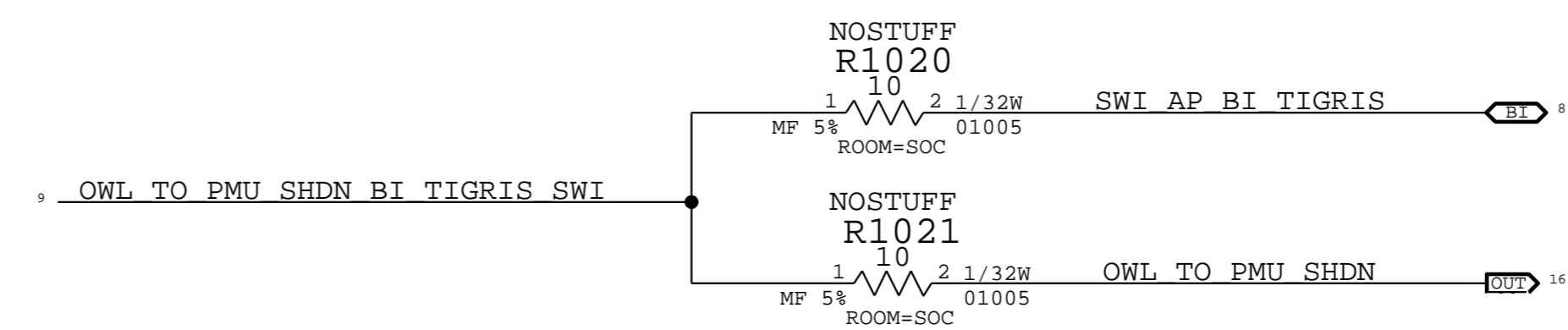
MAUI - OWL



POWER STATE CONTROL PROBE POINTS

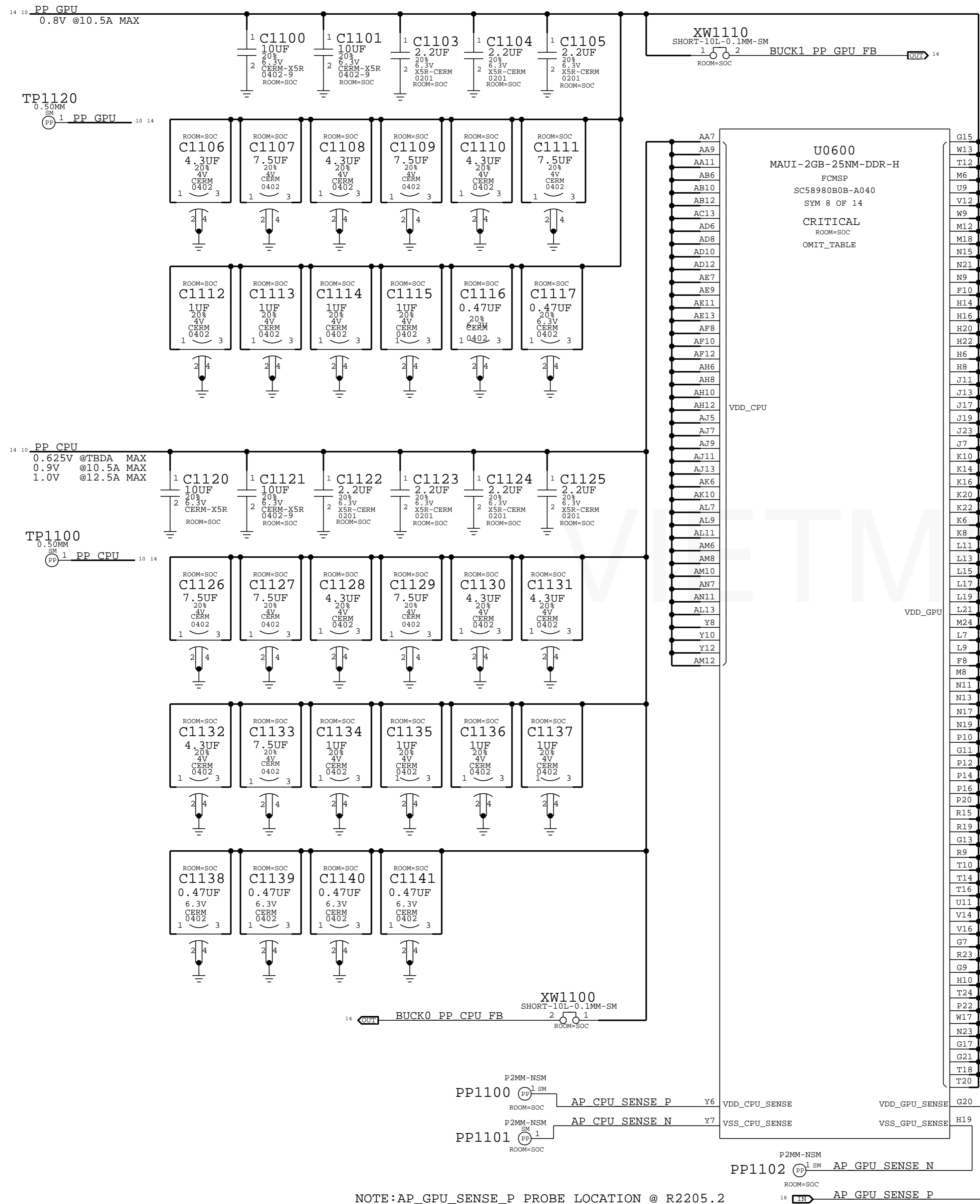


OWL SYSTEM SHUTDOWN OPTION

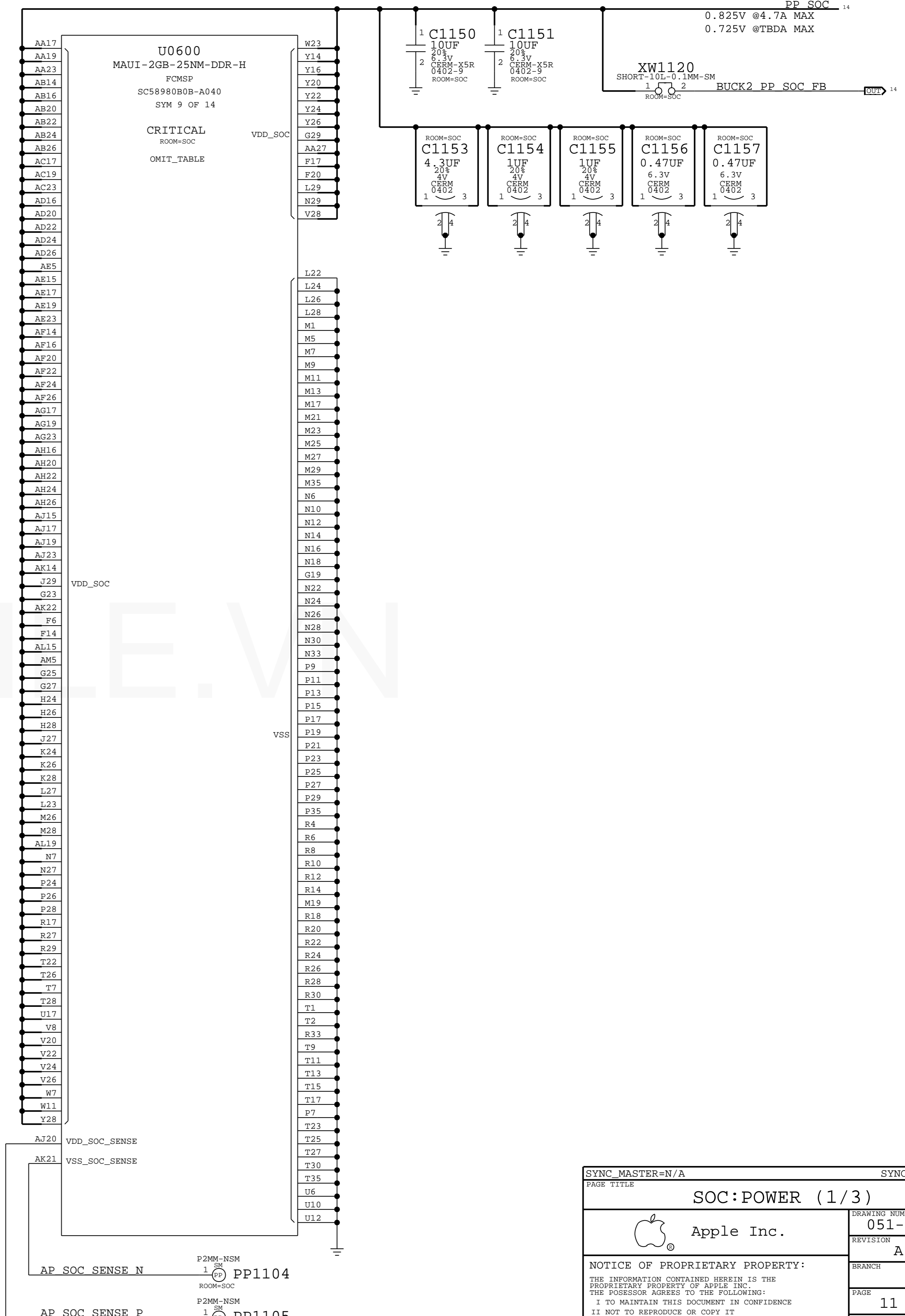


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MAUI - CPU, GPU & SOC RAILS

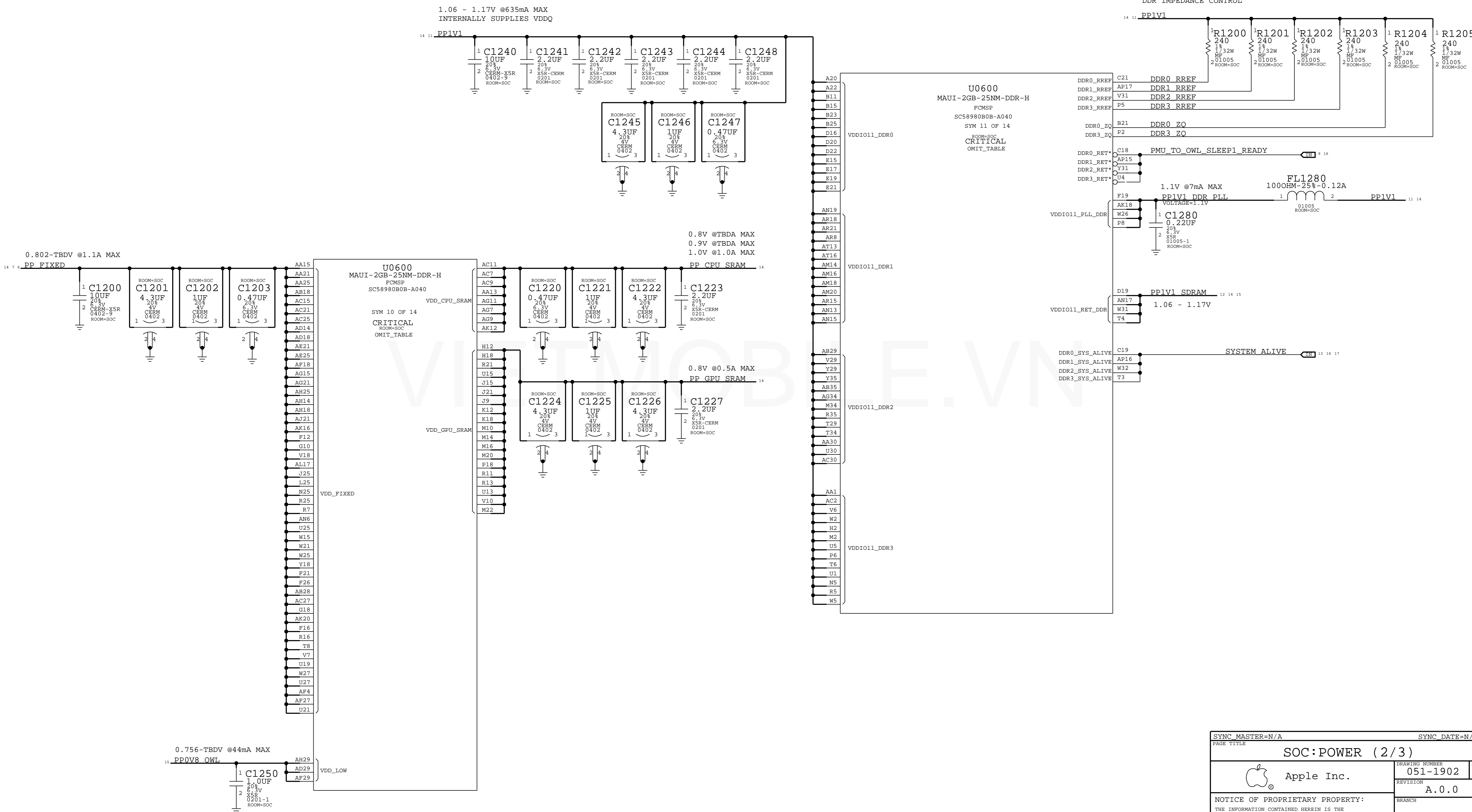


NOTE: AP_GPU_SENSE_P PROBE LOCATION @ R2205.2



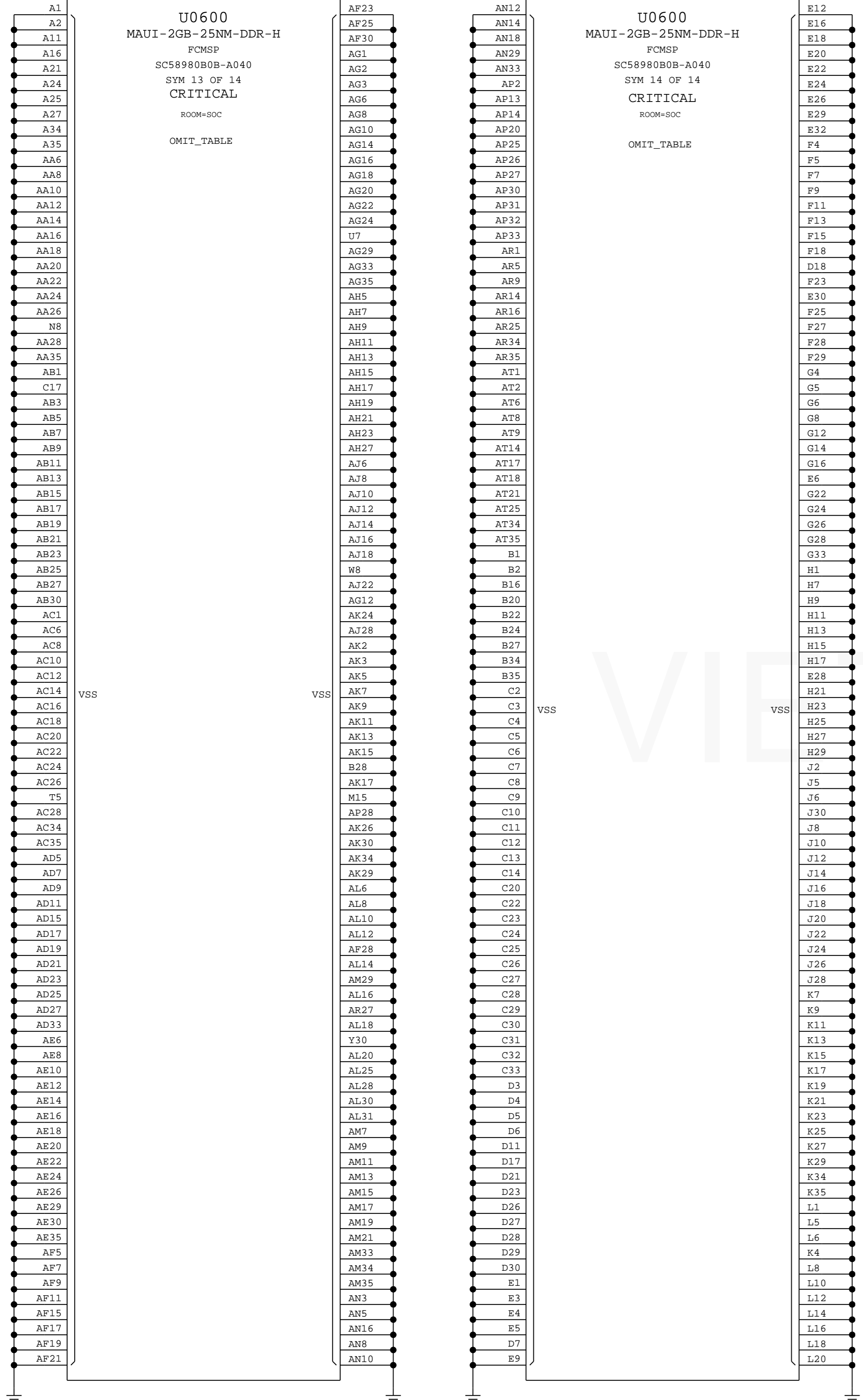
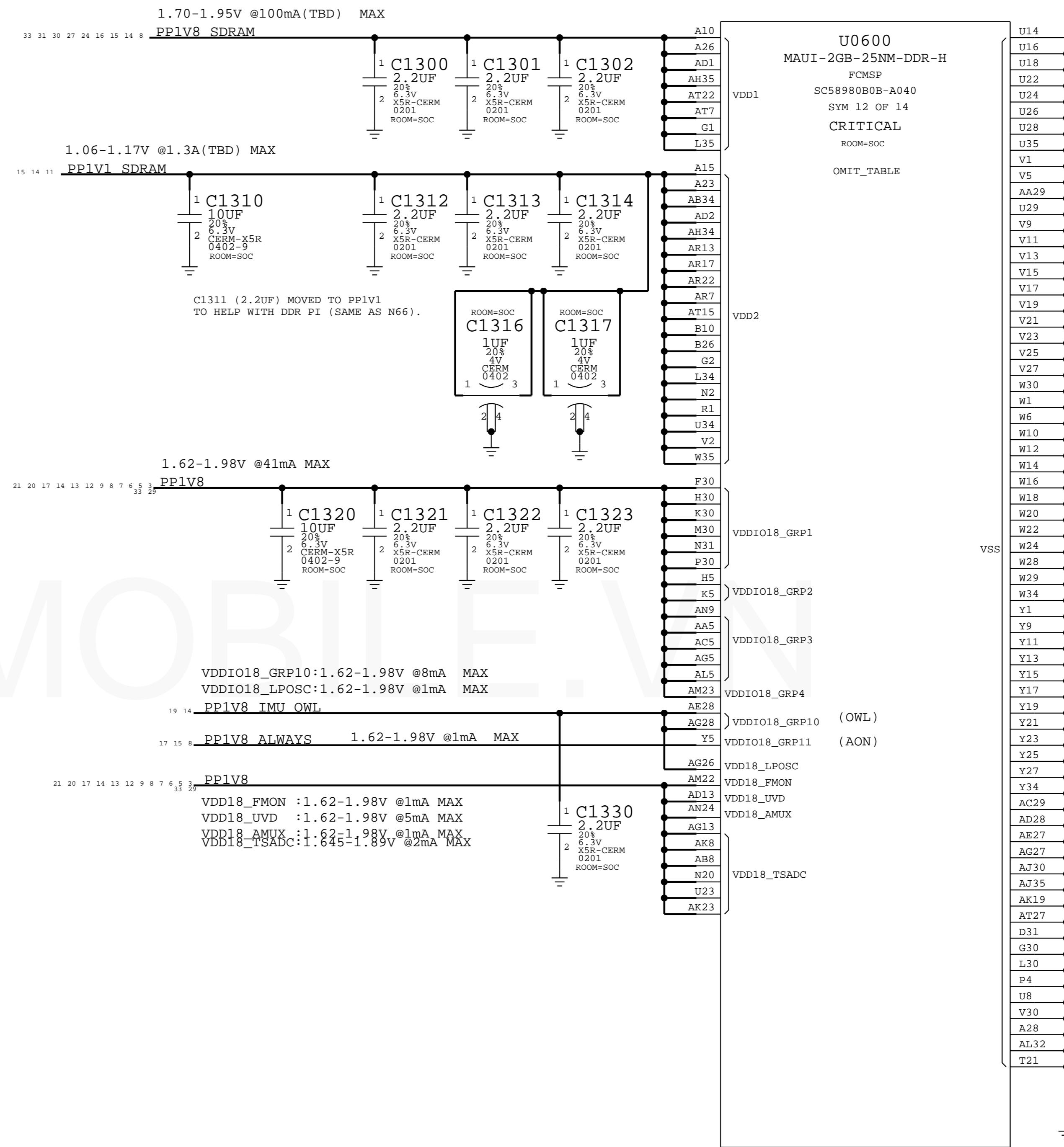
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MAUI - POWER SUPPLIES



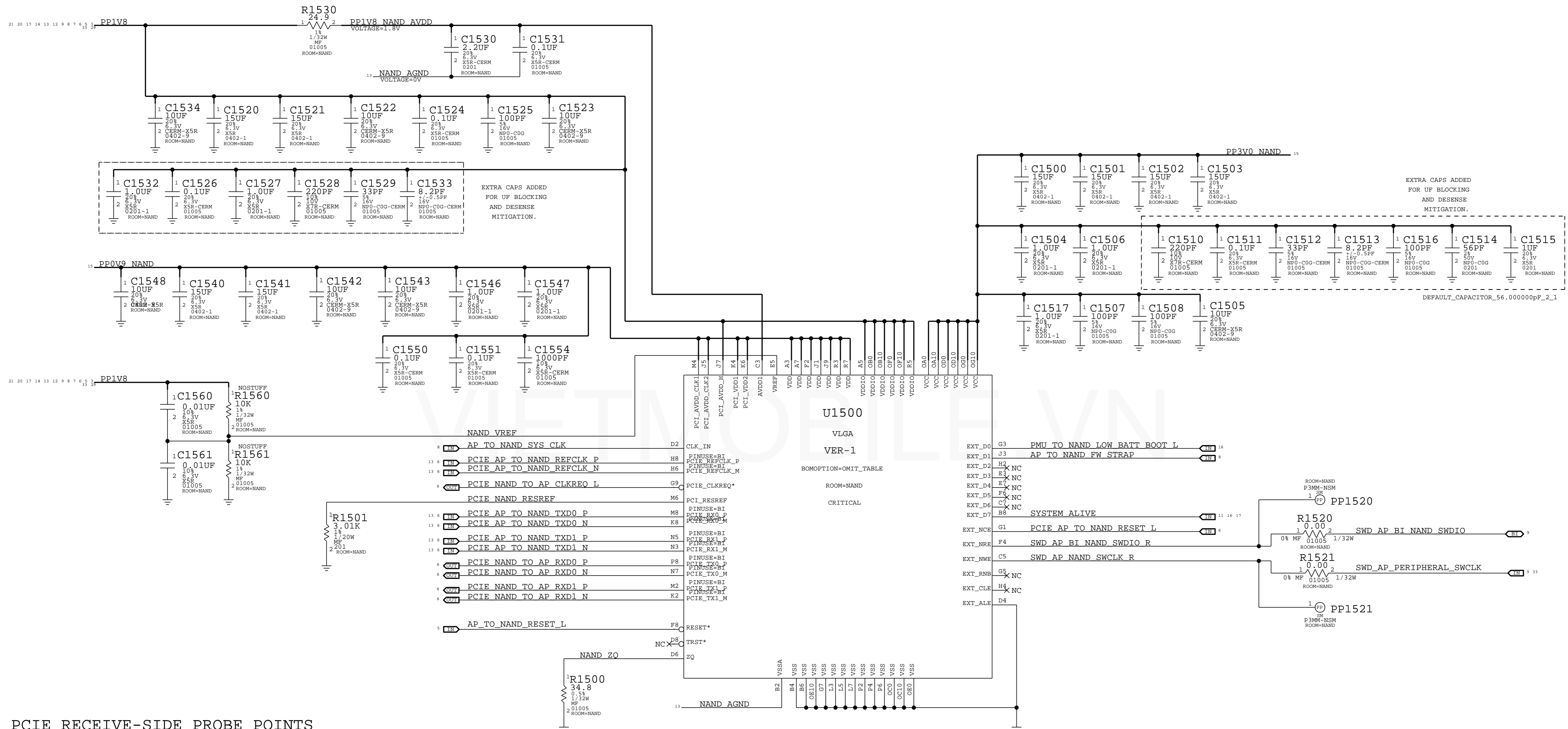
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MAUI - POWER SUPPLIES



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S3E NAND

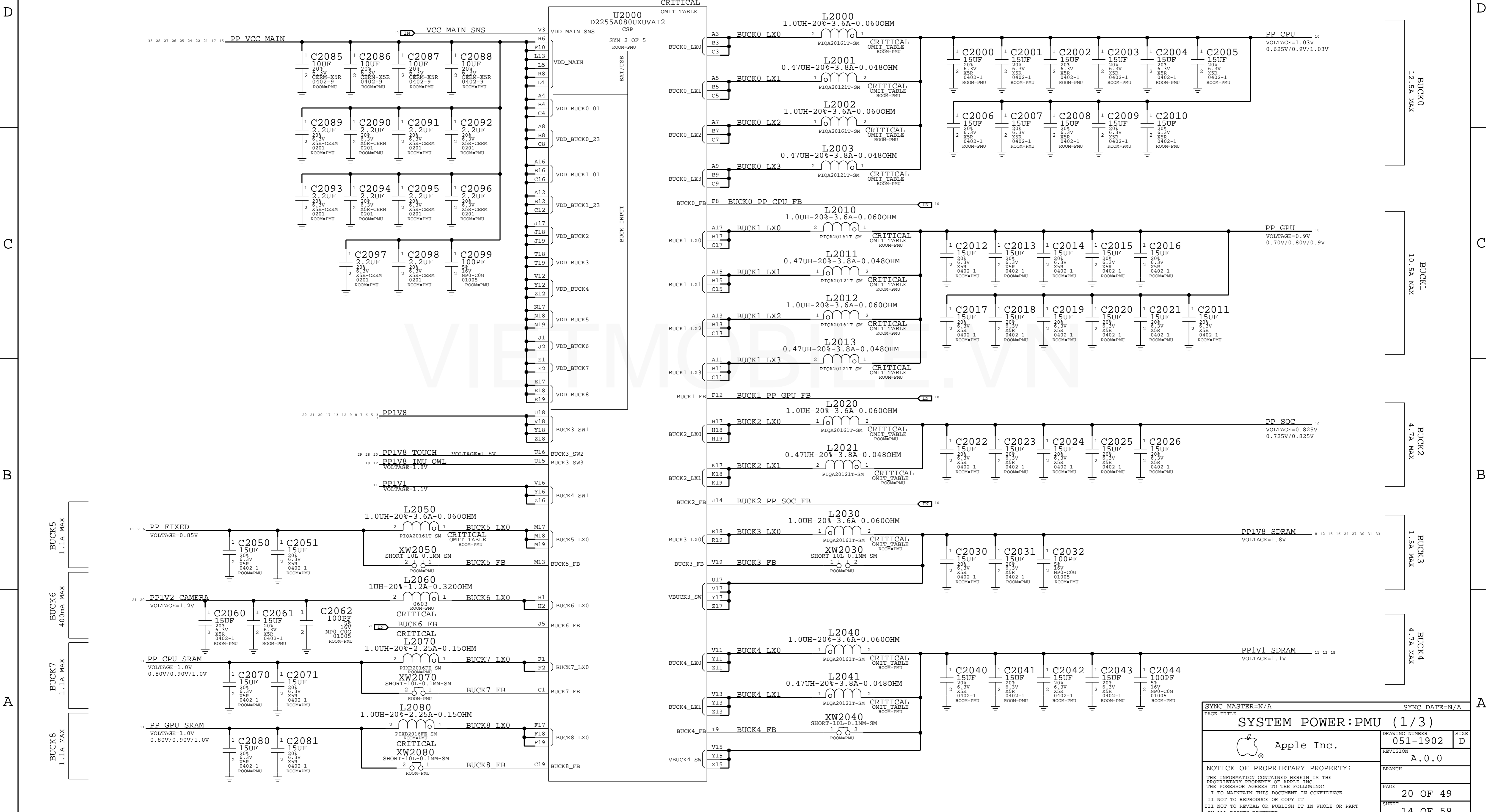
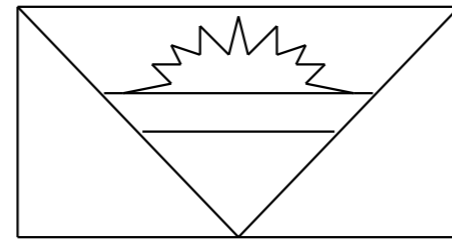


PCIE RECEIVE-SIDE PROBE POINTS

| Probe Point | Component |
|-----------------------------|-----------|
| 13 PCIE AP TO NAND REFCLK P | PP1500 |
| 13 PCIE AP TO NAND REFCLK N | PP1501 |
| 13 PCIE AP TO NAND TXD0 P | PP1502 |
| 13 PCIE AP TO NAND TXD0 N | PP1503 |
| 13 PCIE AP TO NAND TXD1 P | PP1504 |
| 13 PCIE AP TO NAND TXD1 N | PP1505 |

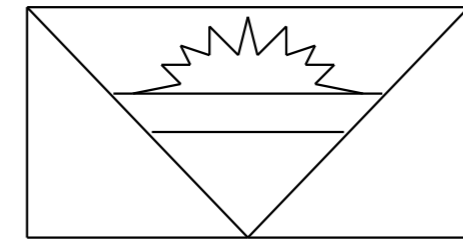
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ANTIGUA PMU - Buck Supplies



| | | | |
|---|--|----------------|----------|
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| Apple Inc. | | DRAWING NUMBER | SIZE |
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ANTIGUA PMU - LDOs



ANTIGUA LDO SPECS

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

D

D

C

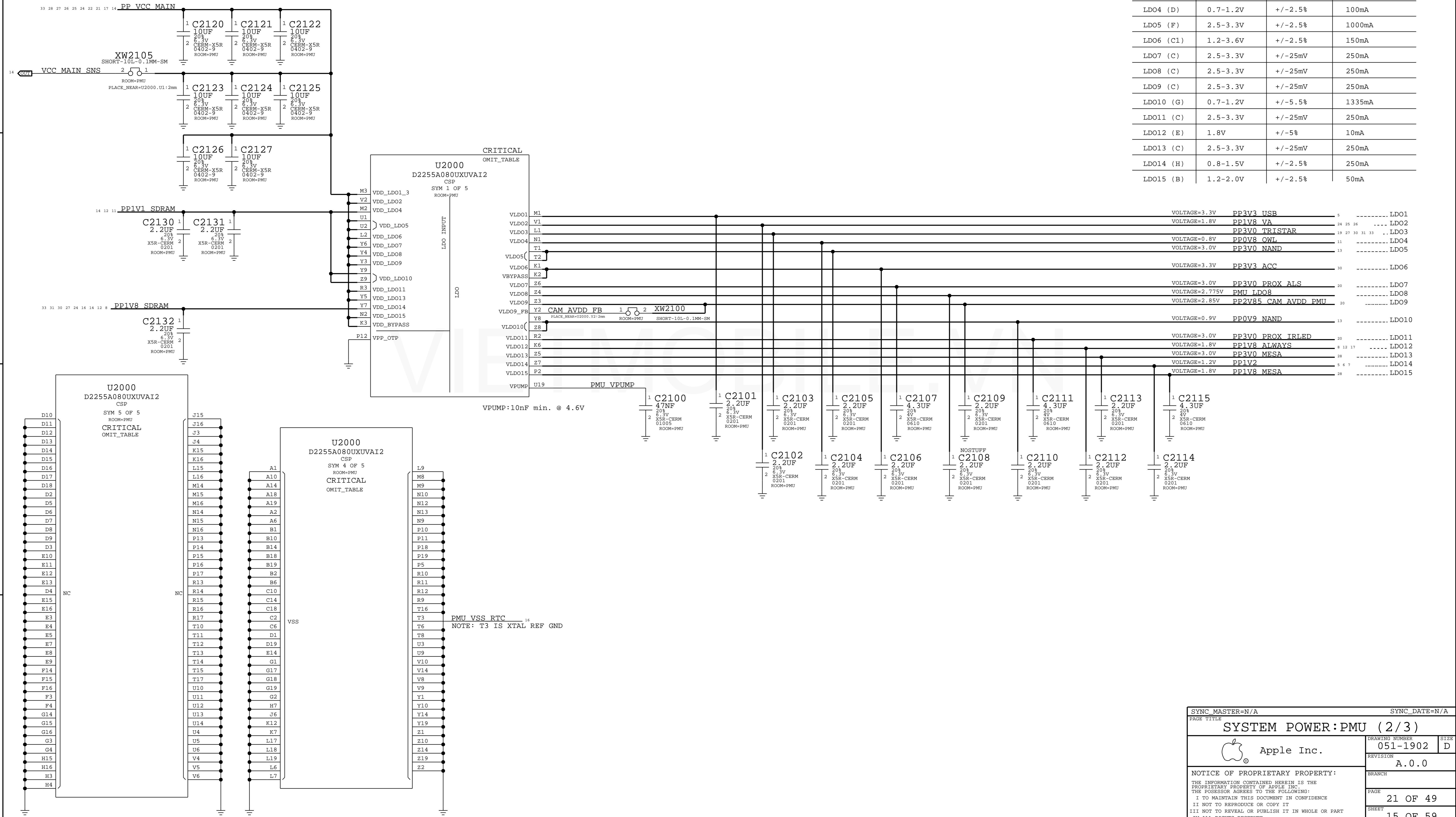
C

B

B

A

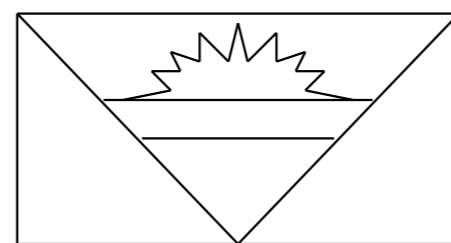
A



| VOLTAGE | COMPONENT | LDO# |
|----------------|---------------------|-------|
| VOLTAGE=3.3V | PP3V3 USB | LDO1 |
| VOLTAGE=1.8V | PP1V8 VA | LDO2 |
| | PP3V0 TRISTAR | LDO3 |
| VOLTAGE=0.8V | PP0V8 OWL | LDO4 |
| VOLTAGE=3.0V | PP3V0 NAND | LDO5 |
| VOLTAGE=3.3V | PP3V3 ACC | LDO6 |
| VOLTAGE=3.0V | PP3V0 PROX ALS | LDO7 |
| VOLTAGE=2.775V | PMU LDO8 | LDO8 |
| VOLTAGE=2.85V | PP2V85 CAM AVDD PMU | LDO9 |
| VOLTAGE=0.9V | PP0V9 NAND | LDO10 |
| VOLTAGE=3.0V | PP3V0 PROX IRLED | LDO11 |
| VOLTAGE=1.8V | PP1V8 ALWAYS | LDO12 |
| VOLTAGE=3.0V | PP3V0 MESA | LDO13 |
| VOLTAGE=1.2V | PP1V2 | LDO14 |
| VOLTAGE=1.8V | PP1V8 MESA | LDO15 |

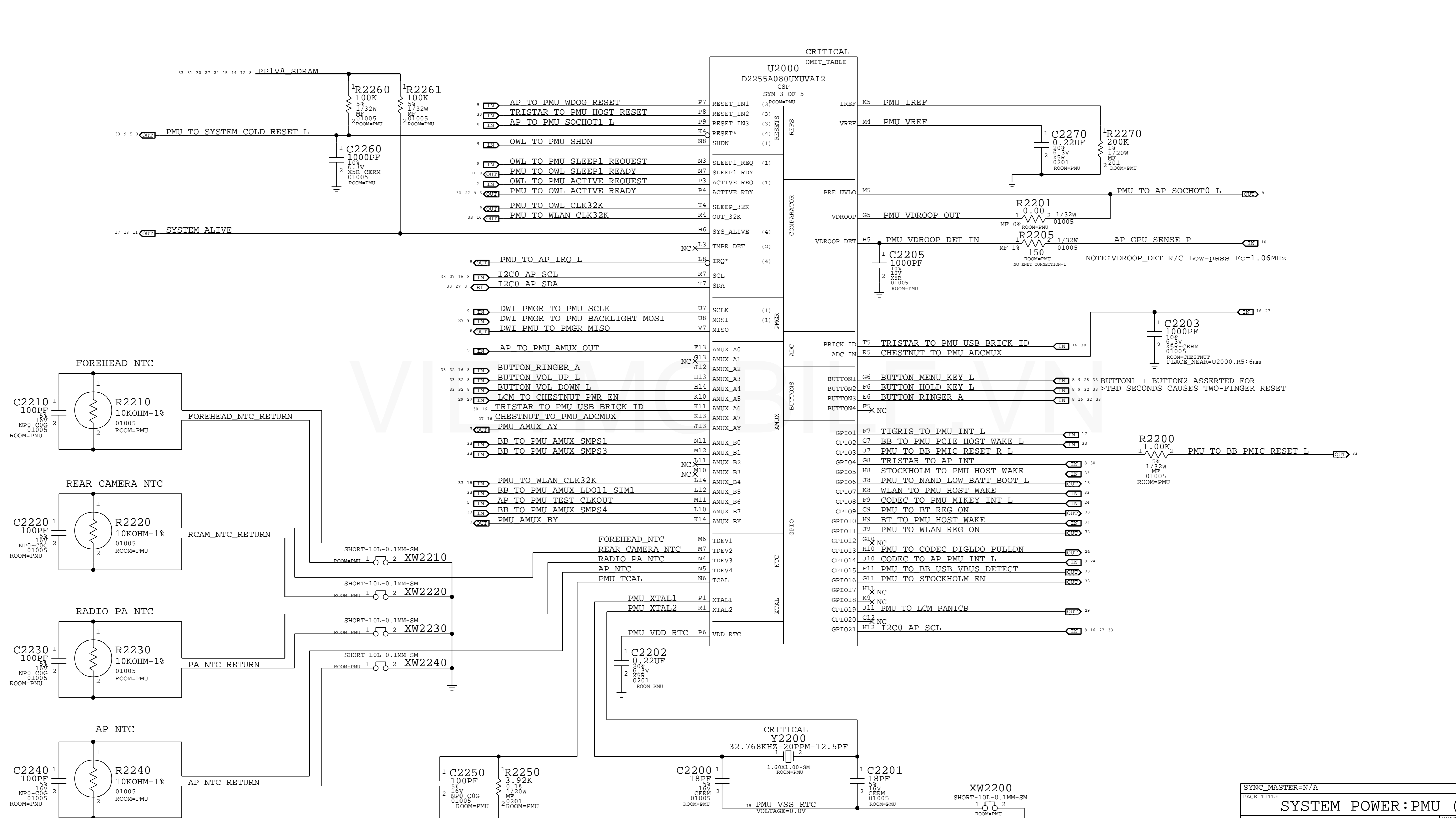
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ANTIGUA PMU - GPIOs, NTCs



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

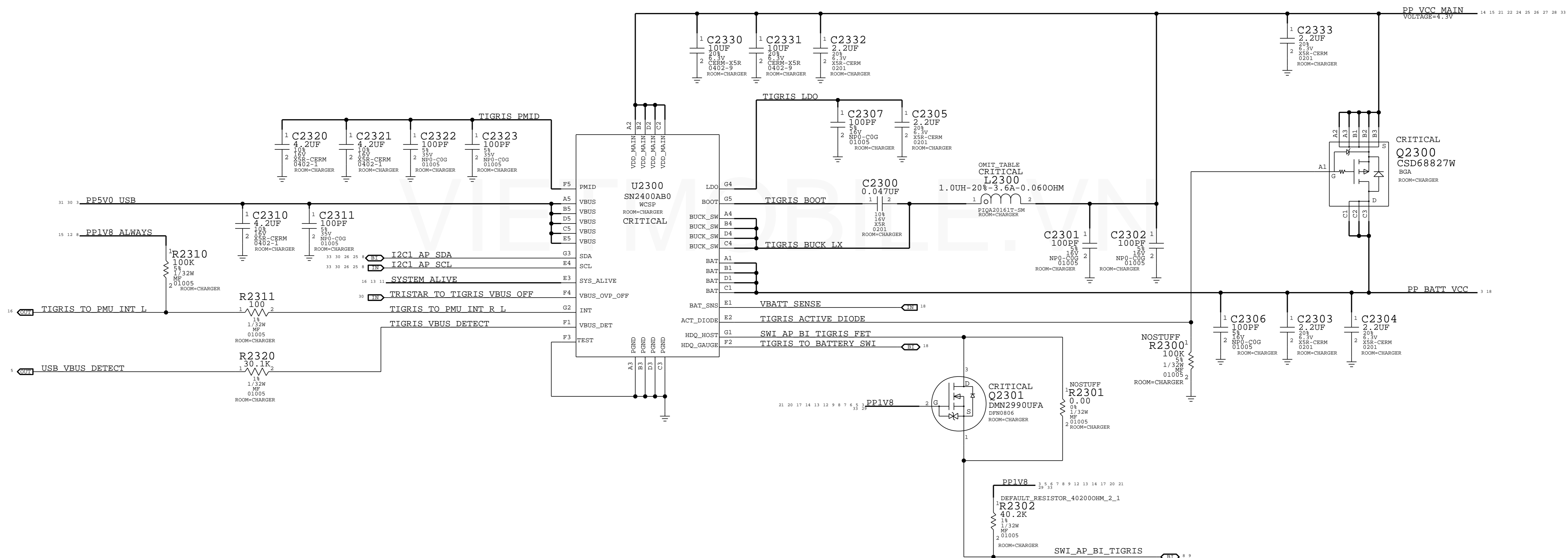


NOTE:100PF CAPS ARE THE SAMPLING CAPS FOR PMU ADC

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

APN: 343S00033



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

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B

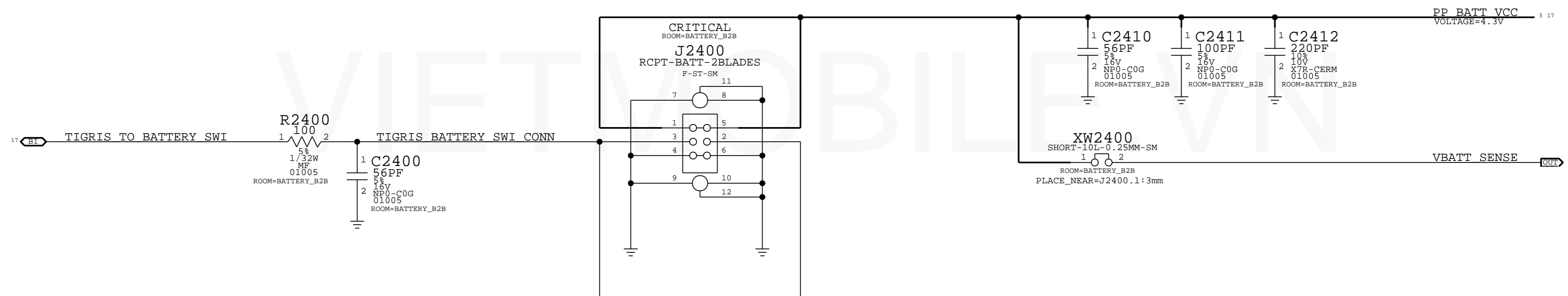
B

A

A

BATTERY CONNECTOR

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



| | | | |
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| PAGE TITLE | | | |
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| Apple Inc. | DRAWING NUMBER | 051-1902 | SIZE |
| | REVISION | A.0.0 | D |
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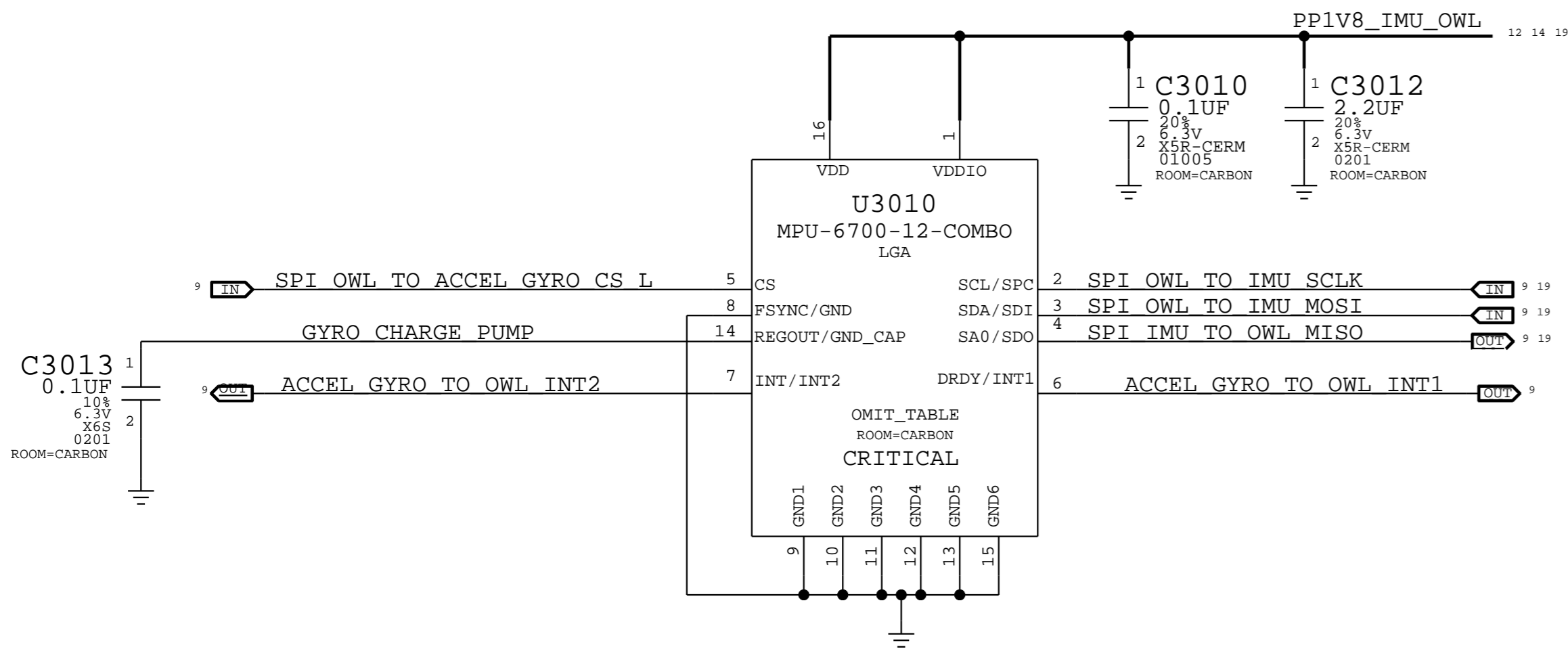
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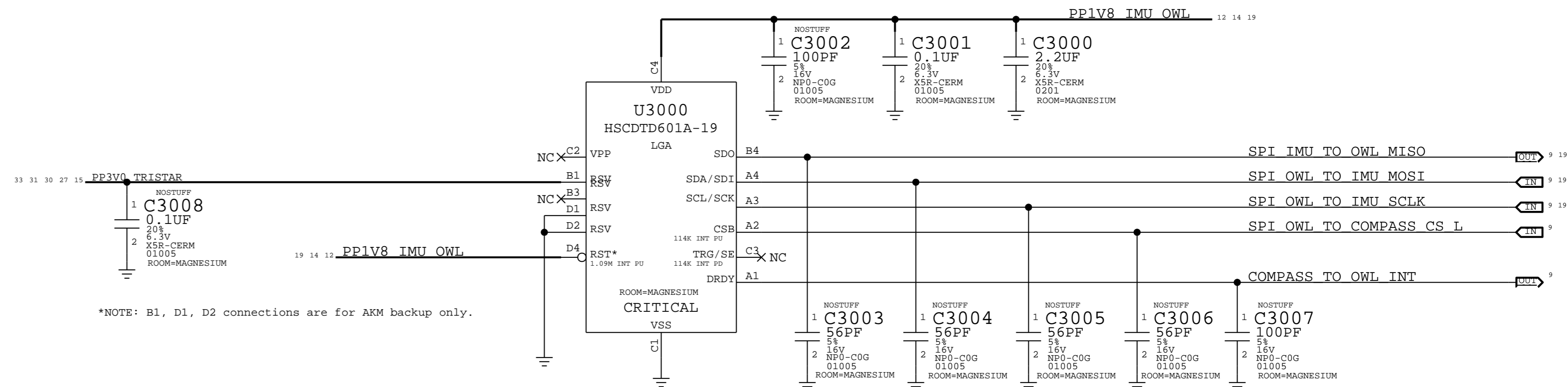
CARBON - ACCEL & GYRO

INVENSENSE (APN: 338S00017, 338S00087)



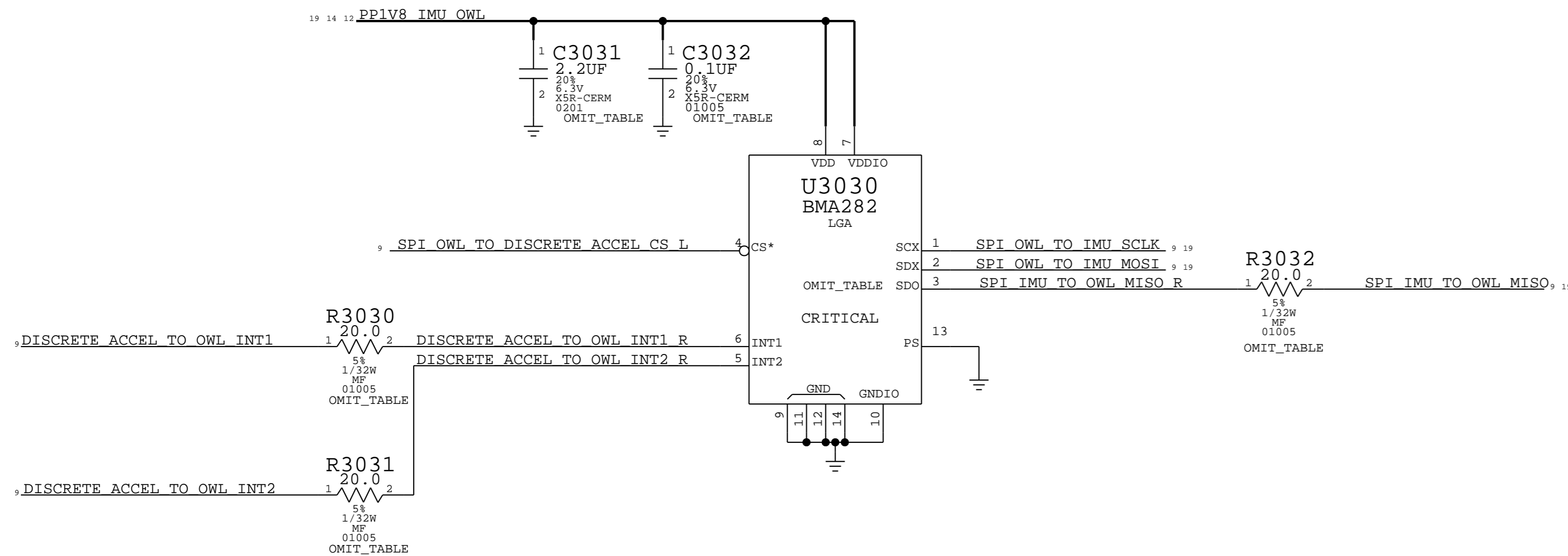
MAGNESIUM - COMPASS

ALPS (APN:338S00084)



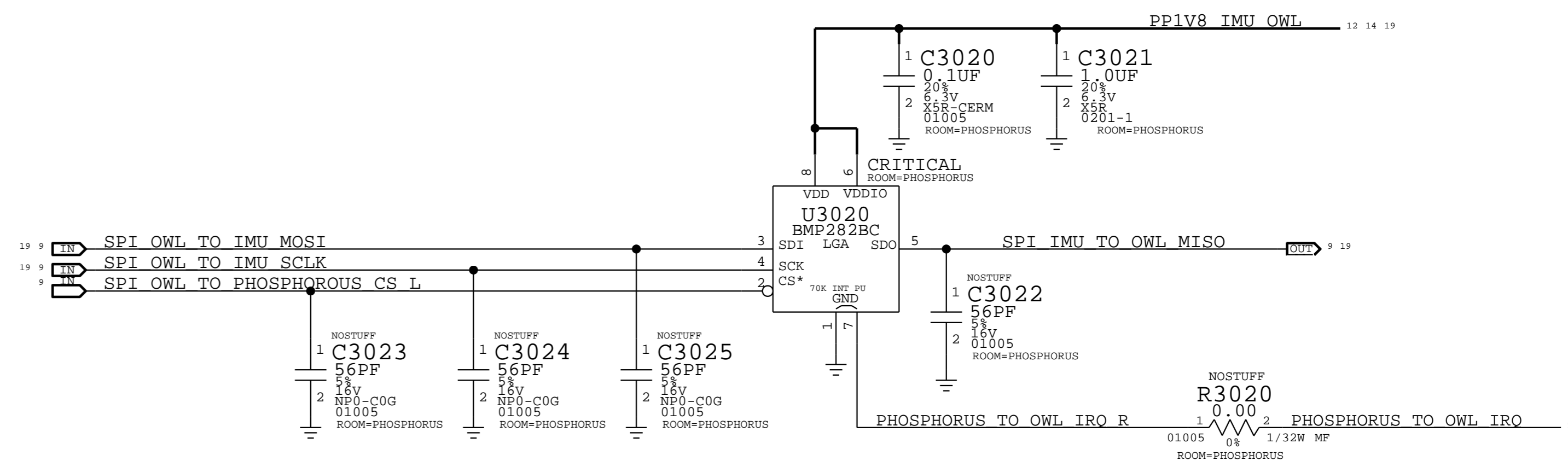
DISCRETE ACCEL

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.

VIETMOBILE.VN

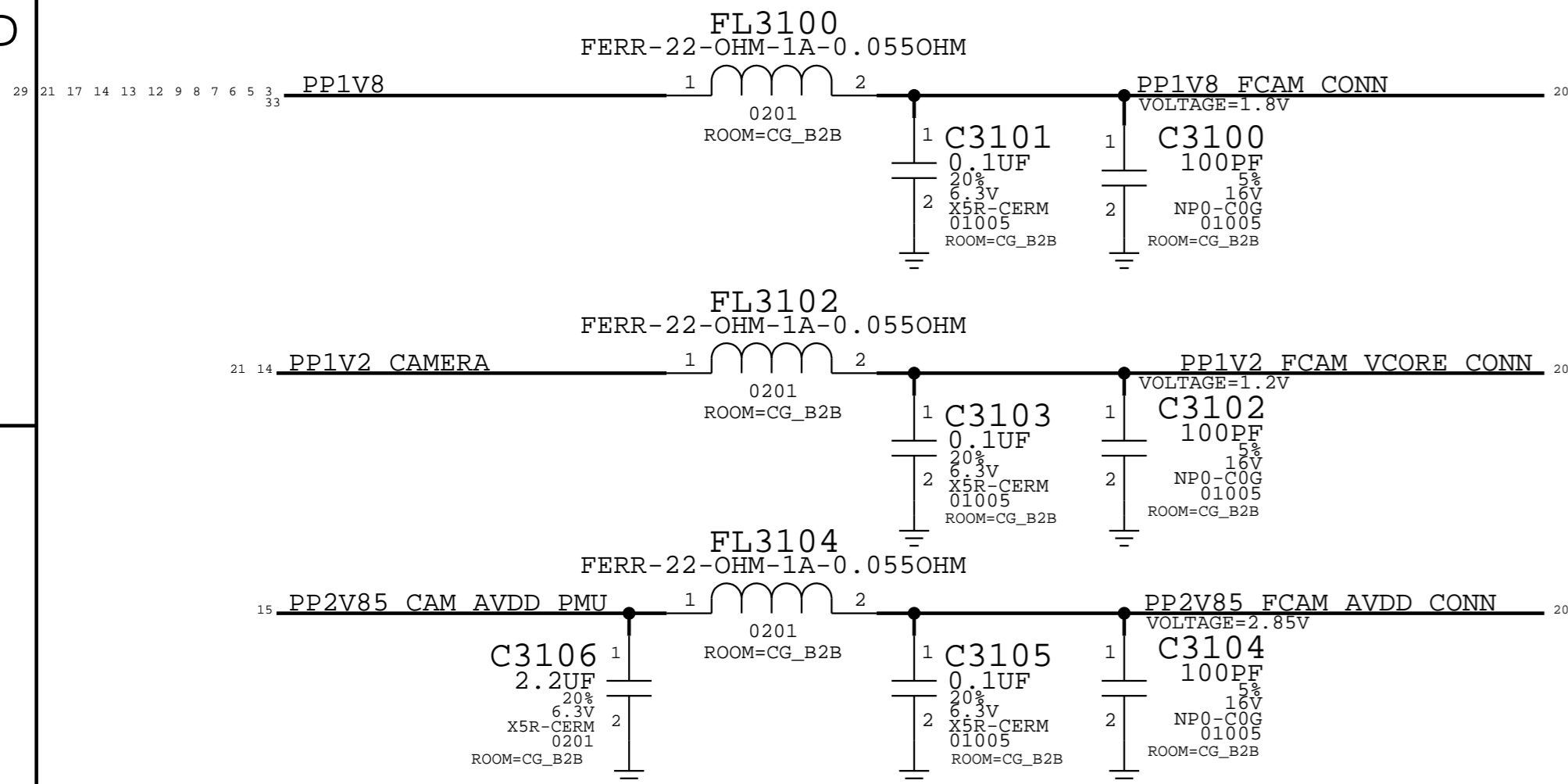
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| PAGE TITLE | | | |
| SENSORS:MOTION SENSORS | | | |
| Apple Inc. | DRAWING NUMBER | 051-1902 | SIZE |
| | REVISION | A.0.0 | D |
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FOREHEAD FLEX (FCAM)

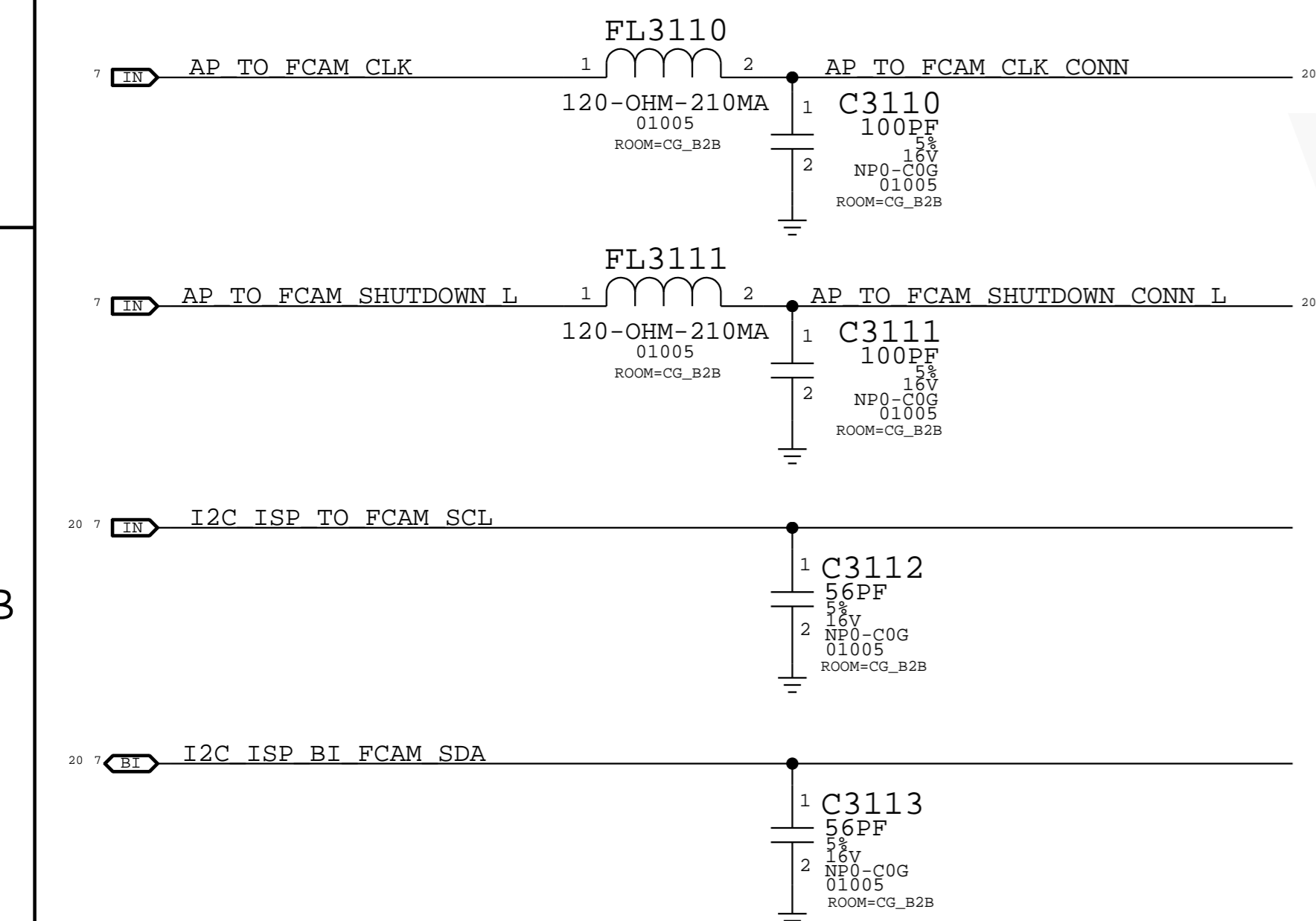
PROX & ALS POWER

FOREHEAD CONNECTOR

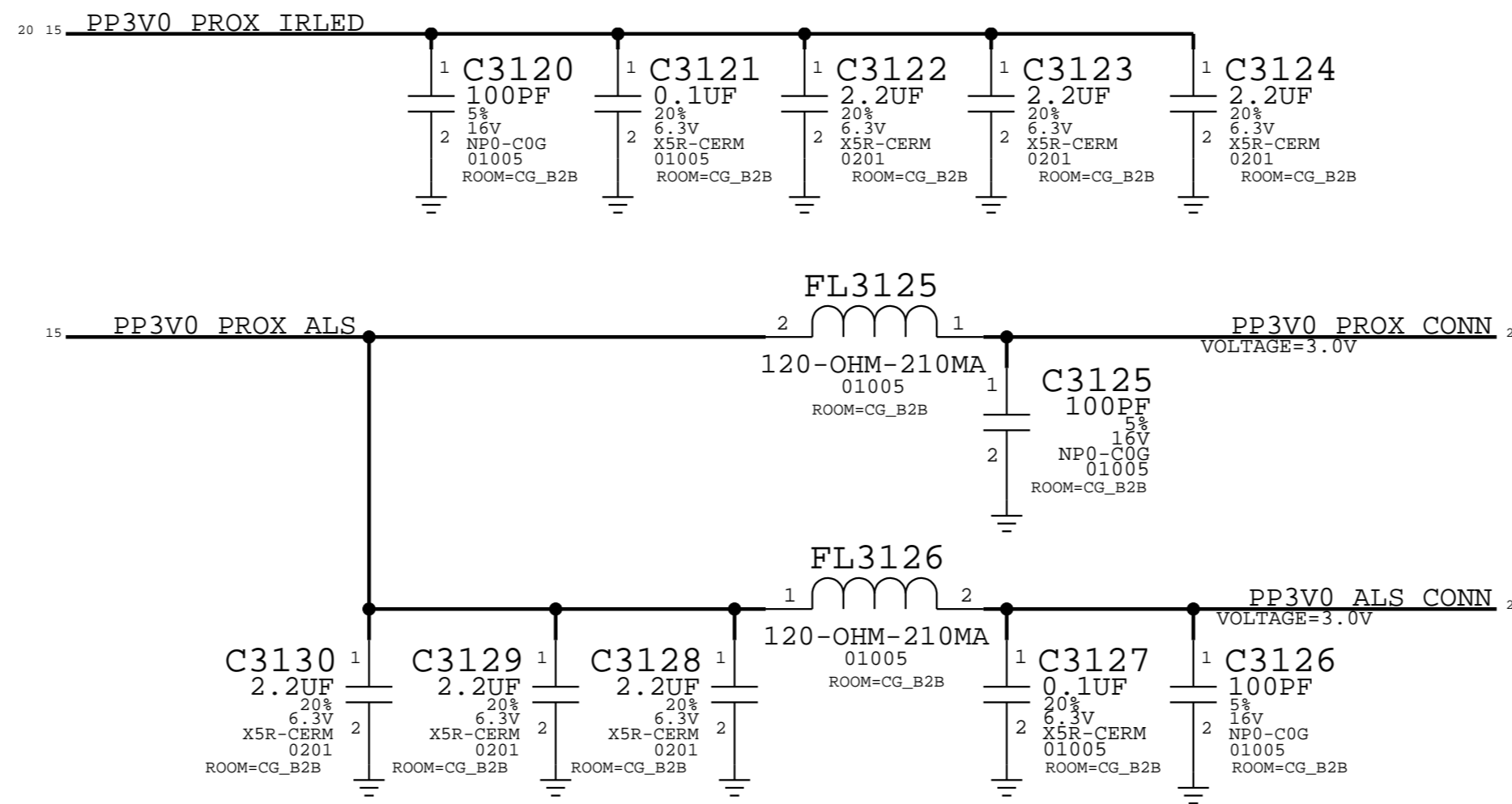
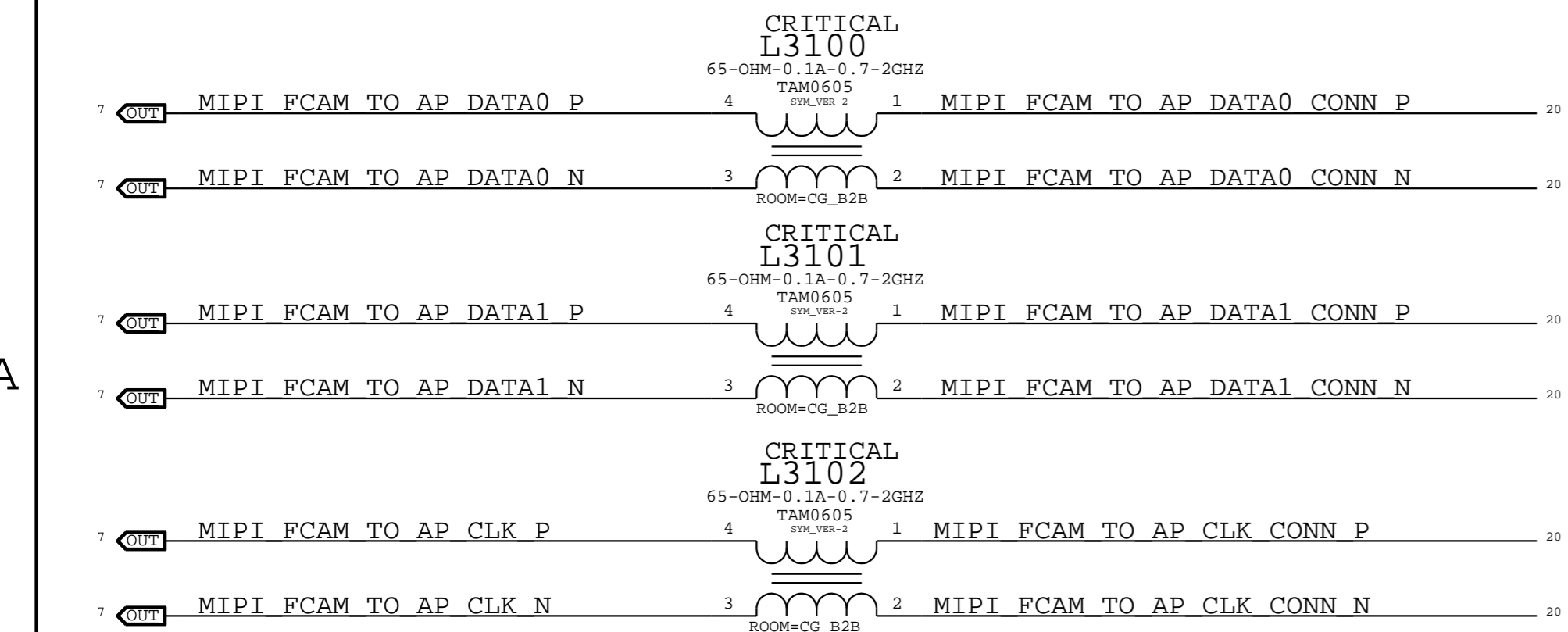
CAMERA POWER



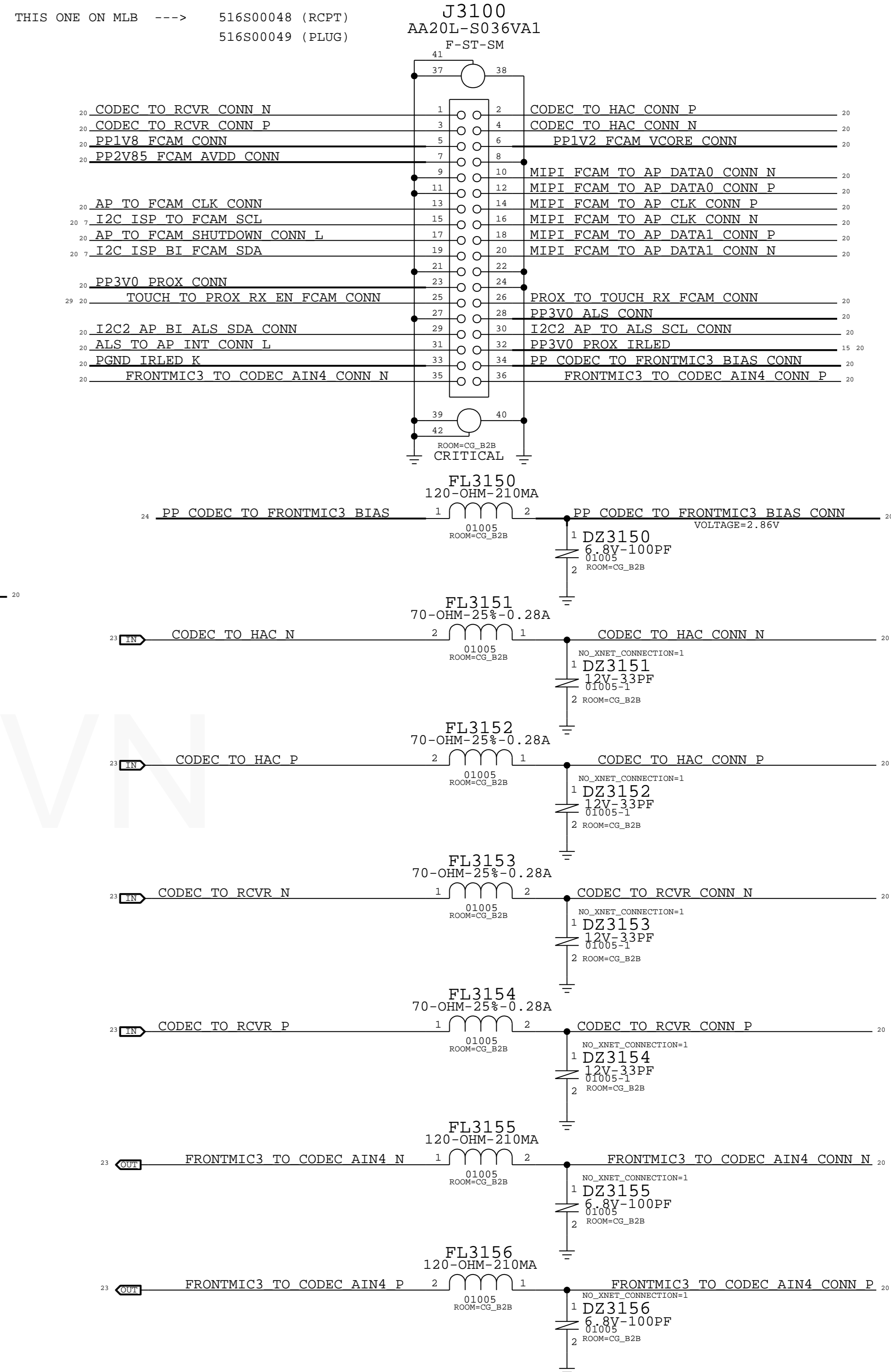
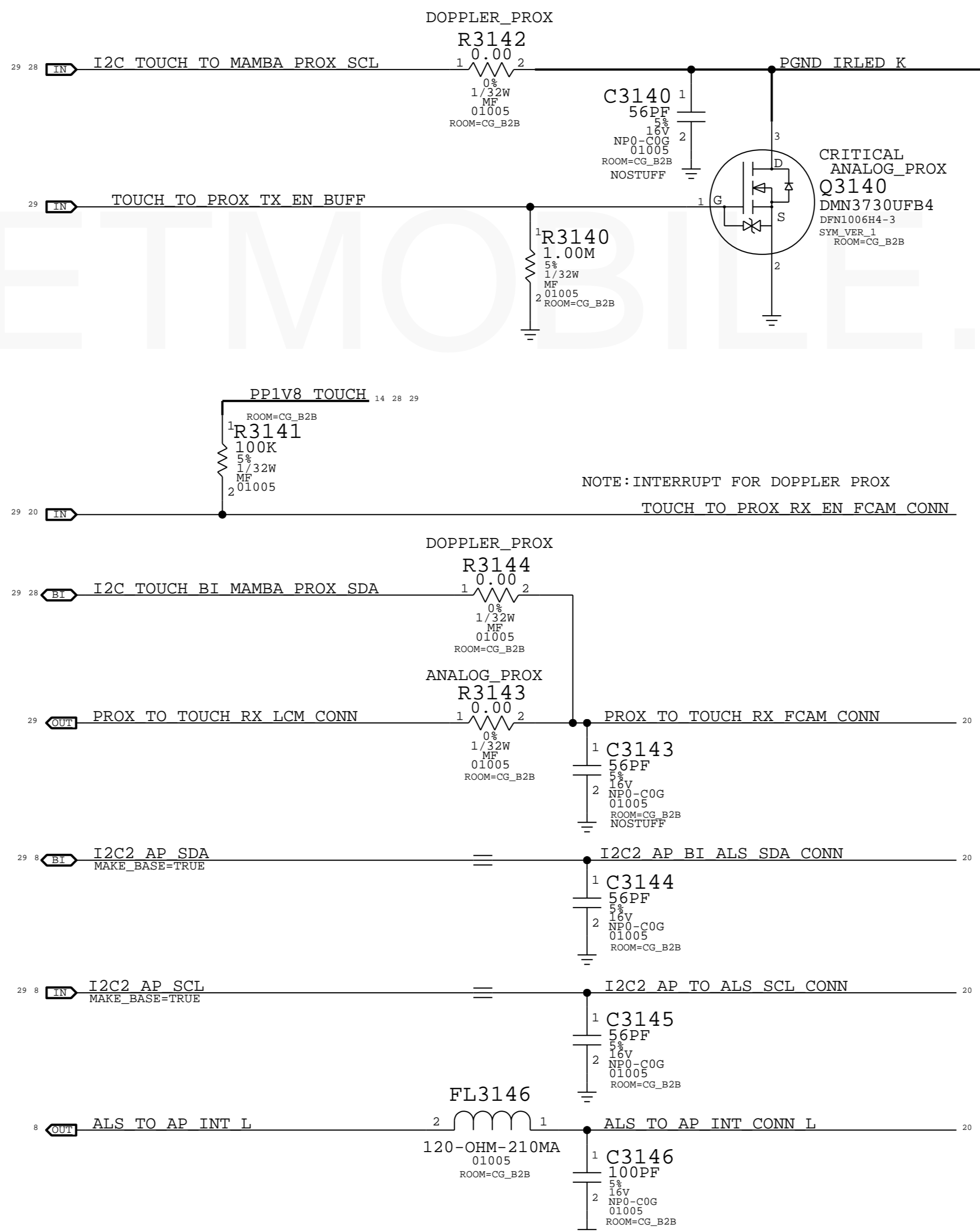
CAMERA I/O



CAMERA MIPI



PROX & ALS INTERFACE



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| PAGE TITLE | | | |
| CAMERA: FOREHEAD FLEX B2B | | | |
| Apple Inc. | | DRAWING NUMBER | 051-1902 |
| | | REVISION | A.0.0 |
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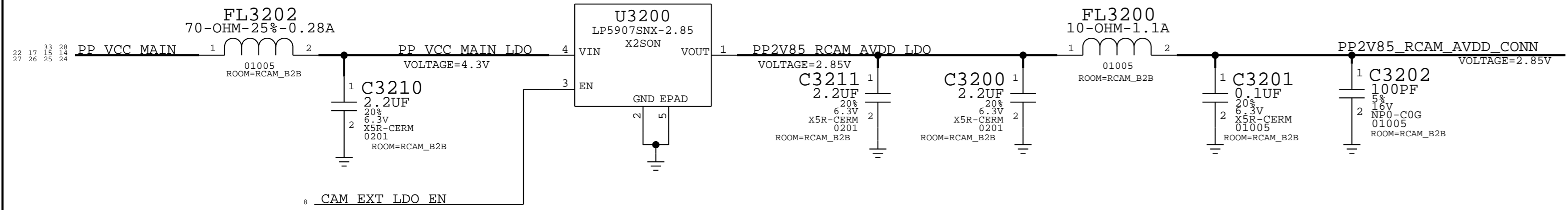
REAR CAMERA FLEX

RCAM CONNECTOR

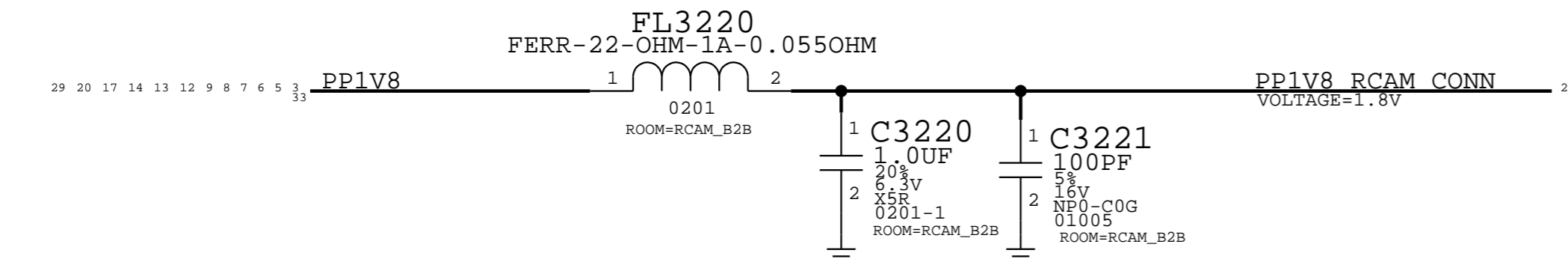
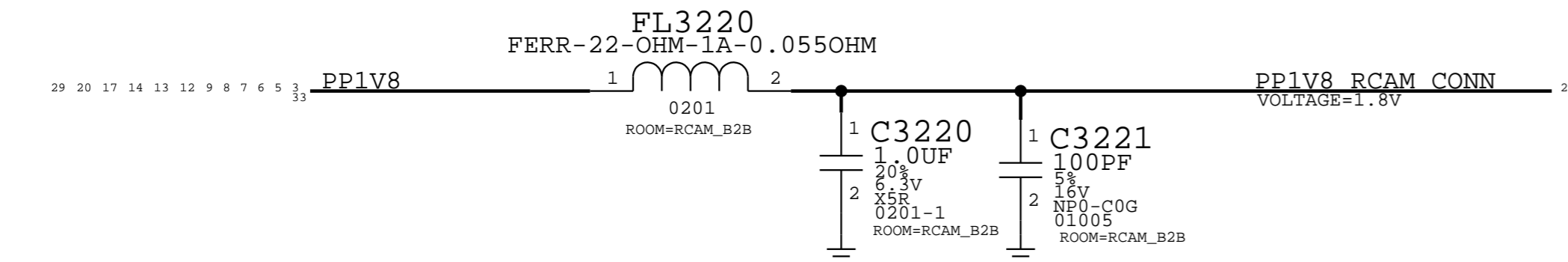
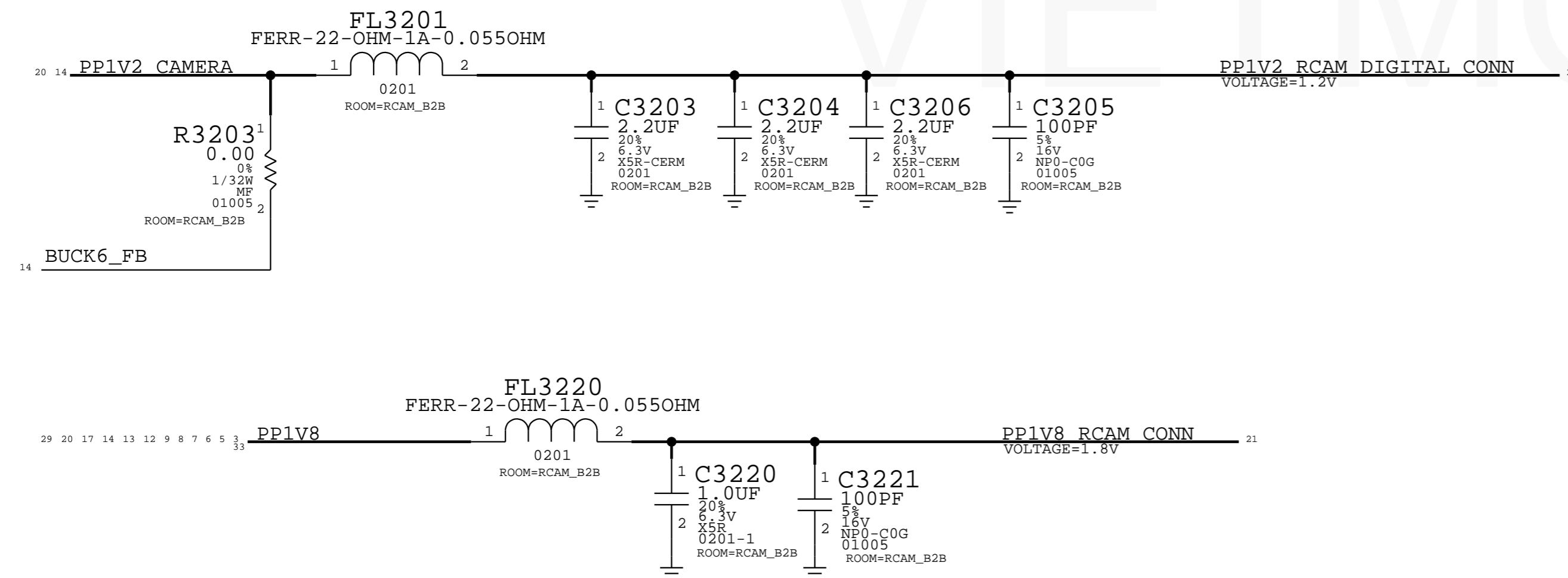
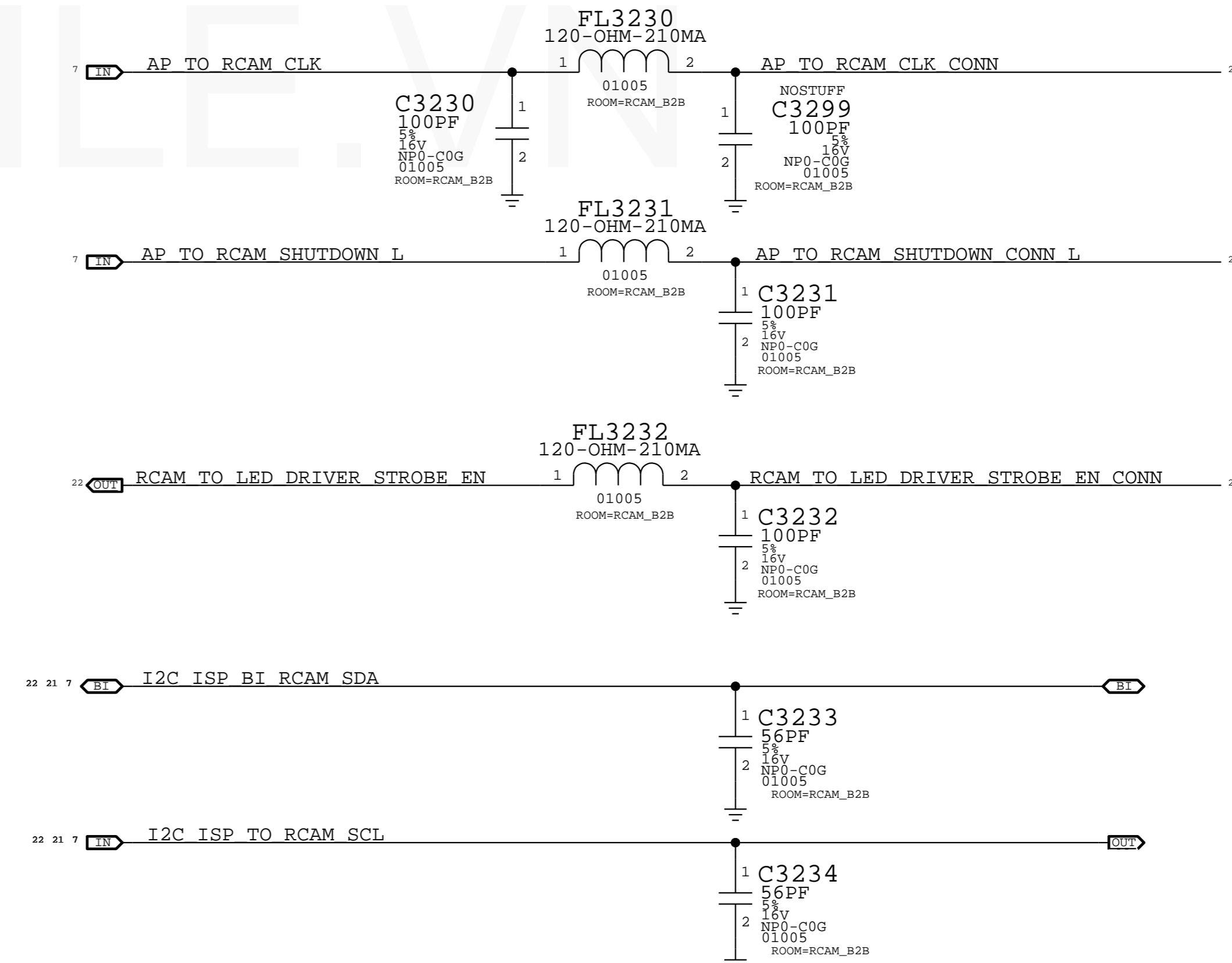
THIS ONE ON MLB ----> 516S00043 (RCPT)
516S00042 (PLUG)

CAMERA POWER

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



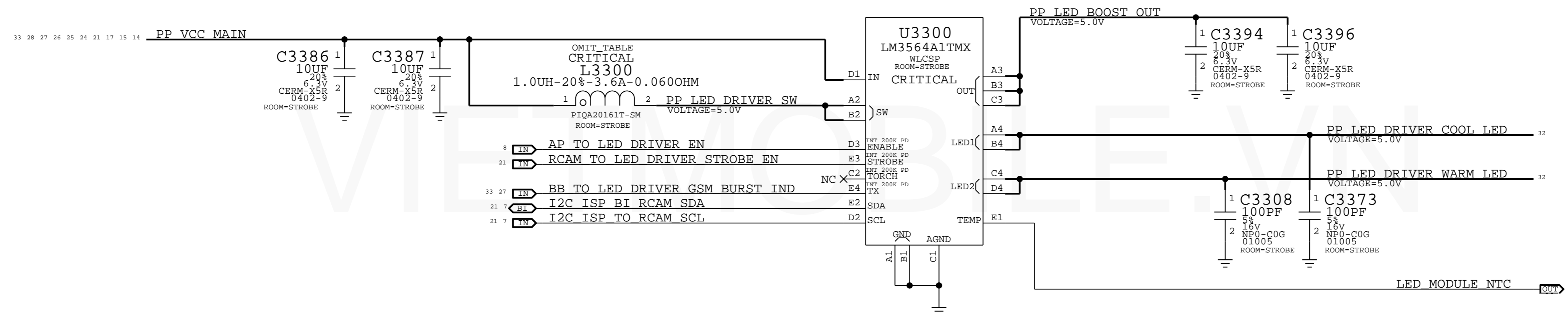
DIGITAL I/O



| | | | |
|---|--|------------------------|--|
| PAGE TITLE | | CAMERA:REAR CAMERA B2B | |
| DRAWING NUMBER | | 051-1902 | |
| REVISION | | A.0.0 | |
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| II NOT TO REPRODUCE OR COPY IT | | 21 OF 59 | |
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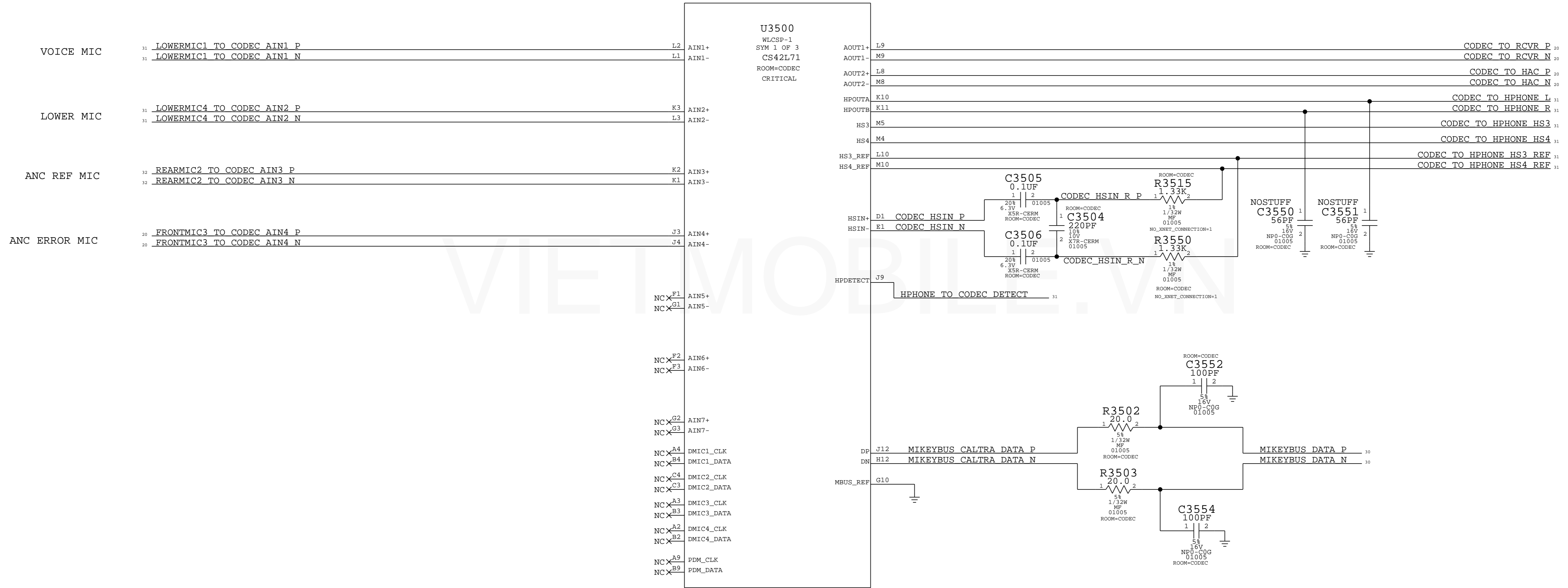
DUAL LED STROBE DRIVER

APN: 353S3899



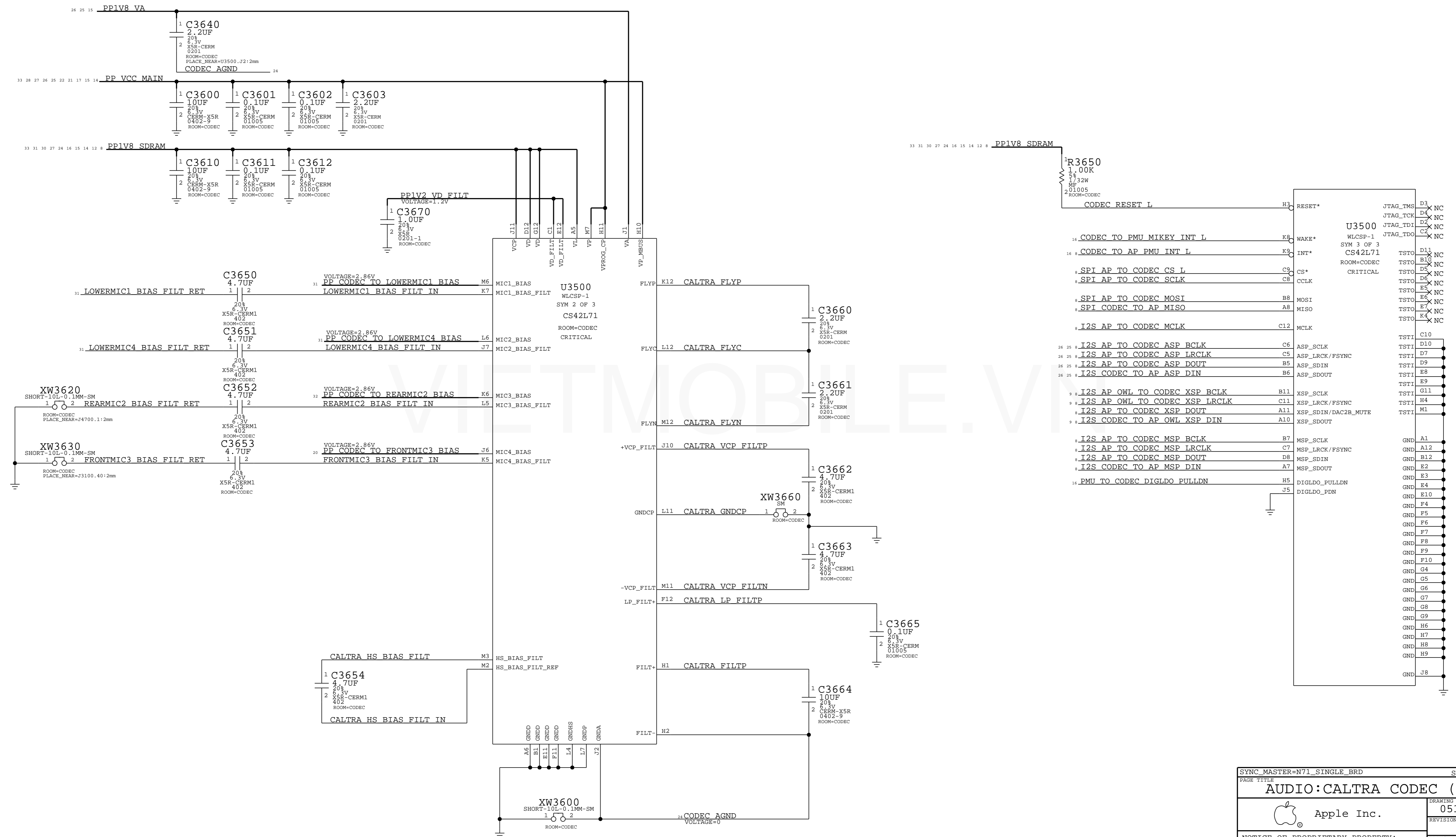
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| PAGE TITLE CAMERA:STROBE DRIVER | | | |
| | DRAWING NUMBER | SIZE | |
| | 051-1902 | D | |
| REVISION | | A.0.0 | |
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| PAGE | | 33 OF 49 | |
| SHEET | | 22 OF 59 | |

CALTRA AUDIO CODEC (ANALOG INPUTS & OUTPUTS)



| | | | |
|---|----------------|----------------------|----------|
| SYNC_MASTER=N71_SINGLE_BRD | | SYNC_DATE=05/29/2014 | |
| PAGE TITLE | | | |
| AUDIO: CALTRA CODEC (1/2) | | | |
| Apple Inc. | DRAWING NUMBER | 051-1902 | SIZE |
| | REVISION | A.0.0 | D |
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| | | PAGE | 35 OF 49 |
| | | SHEET | 23 OF 59 |

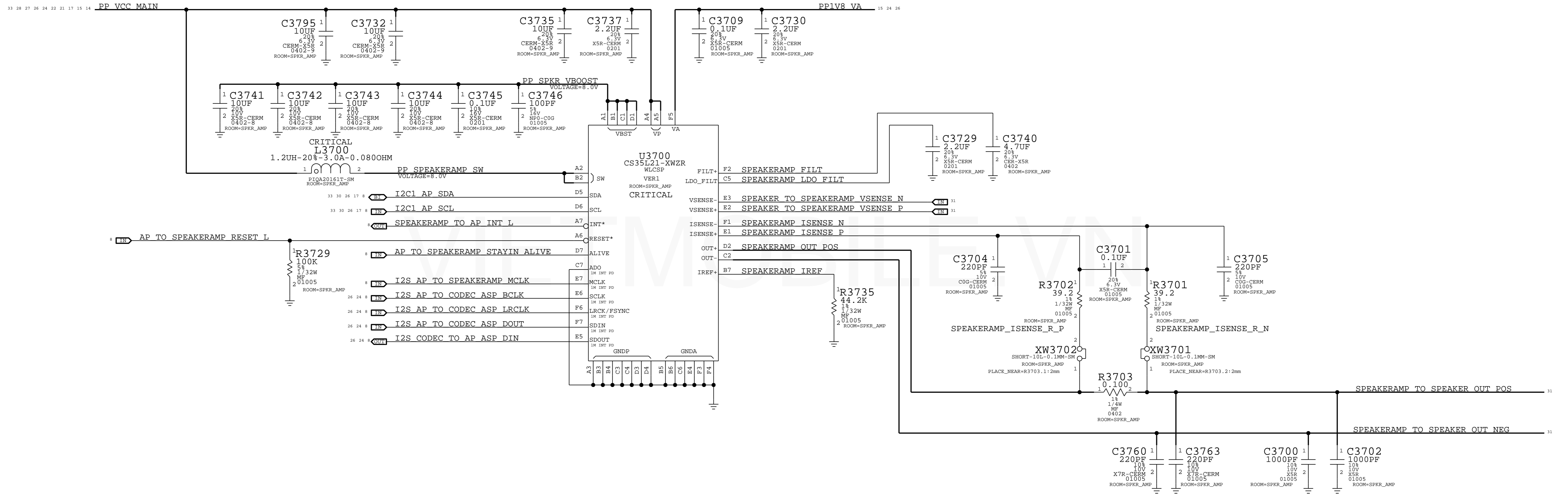
CALTRA AUDIO CODEC (POWER & I/O)



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| PAGE TITLE | | | |
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| | DRAWING NUMBER | 051-1902 | SIZE |
| | REVISION | A.0.0 | |
| BRANCH | | | |
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SPEAKER AMPLIFIER

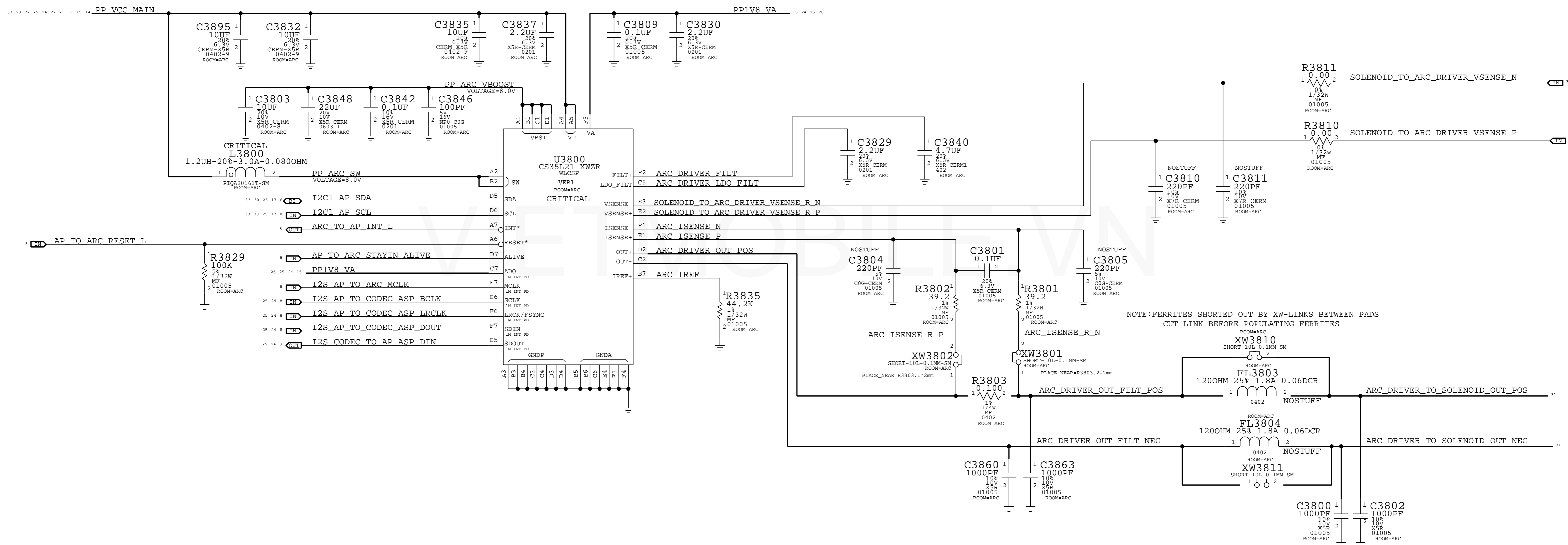
APN: 338S1285



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| | DRAWING NUMBER | 051-1902 | SIZE D |
| | REVISION | A.0.0 | |
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| | | PAGE | 37 OF 49 |
| | | SHEET | 25 OF 59 |

ARC DRIVER

APN: 338S1285

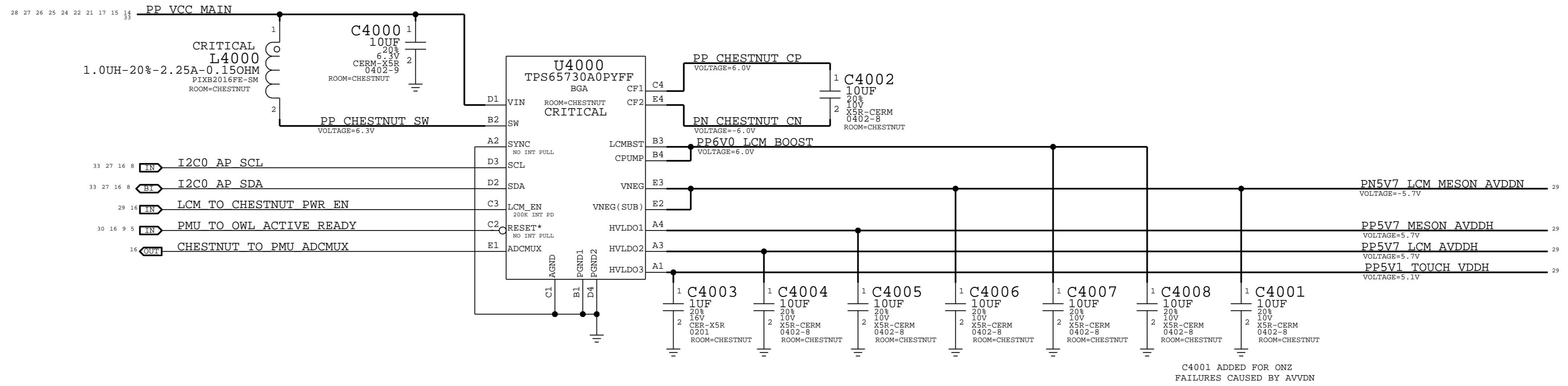


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| PAGE TITLE | | |
| AUDIO:ARC DRIVER | | |
| | DRAWING NUMBER | 051-1902 |
| | REVISION | A.0.0 |
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| BRANCH | PAGE | 38 OF 49 |
| SHEET | 26 OF 59 | |

DISPLAY & TOUCH - POWER SUPPLIES

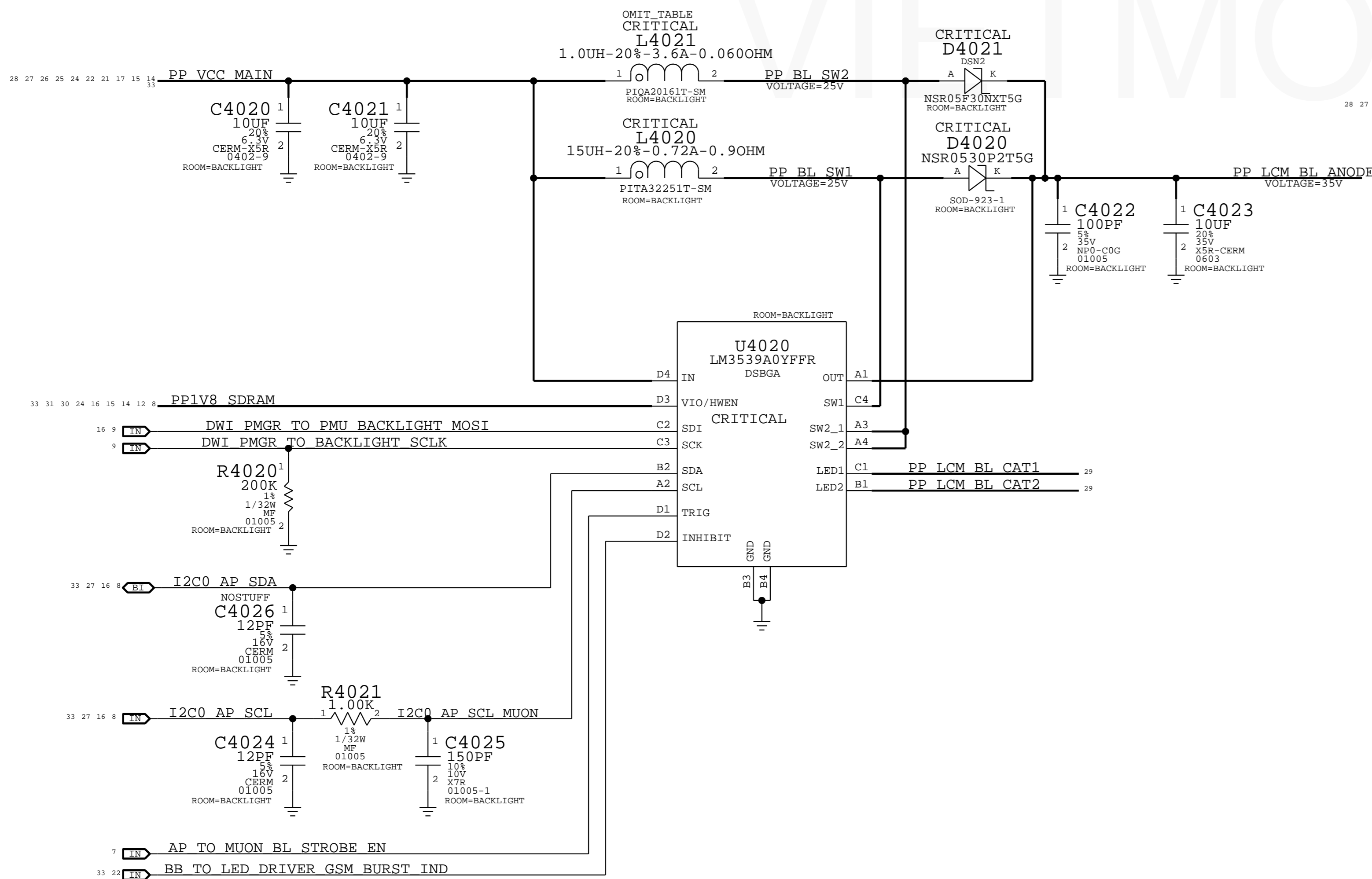
CHESTNUT DISPLAY PMU

APN: 338S1172



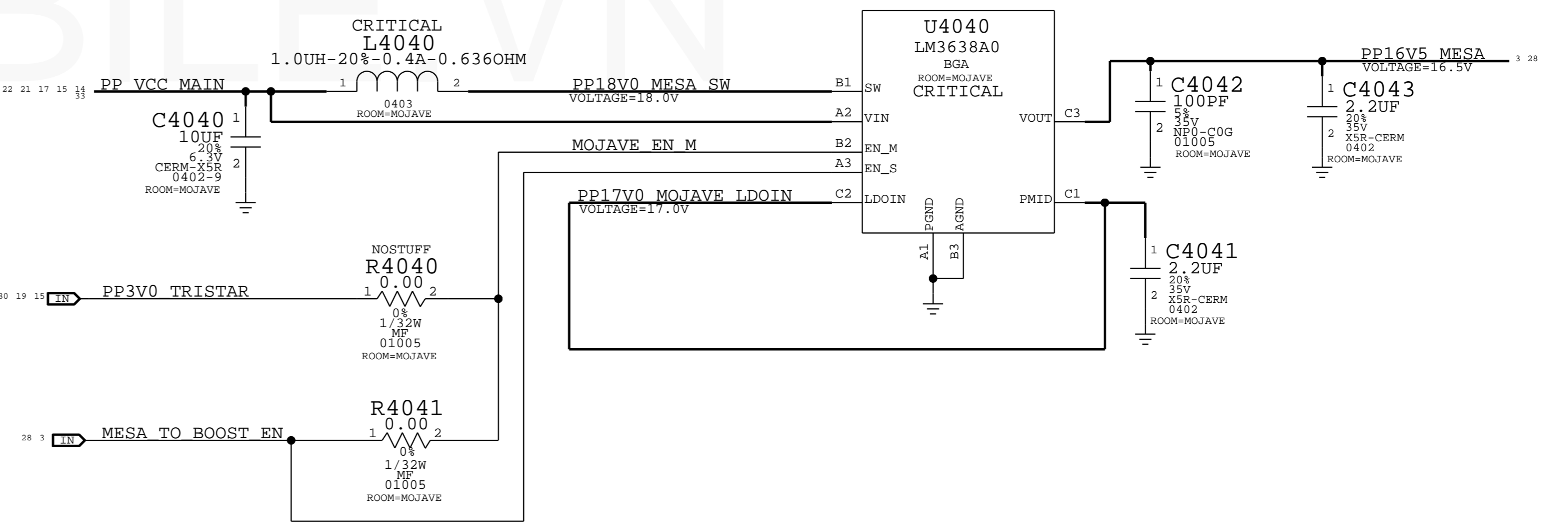
LED BACKLIGHT DRIVER

APN: 353S00407



MOJAVE MESA BOOST

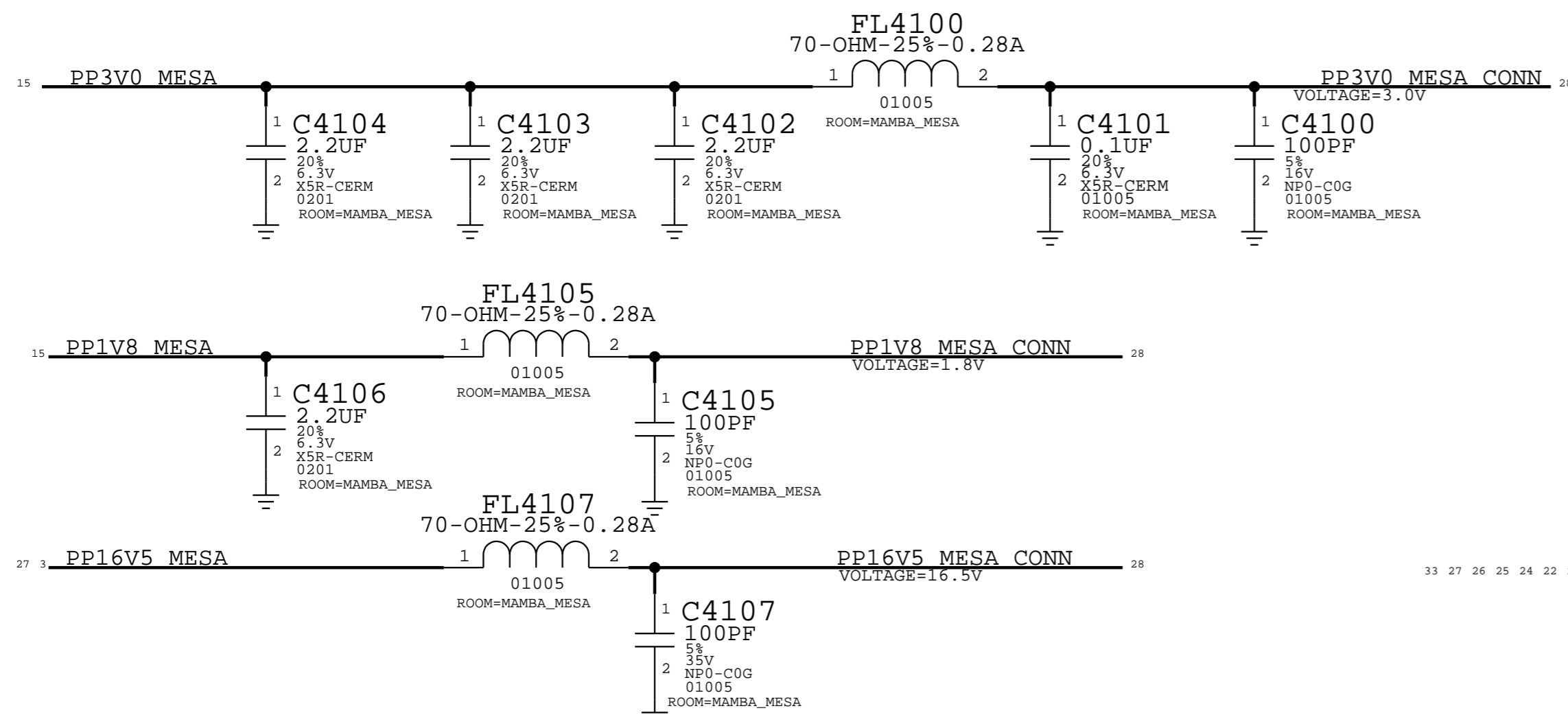
APN: 353S00671



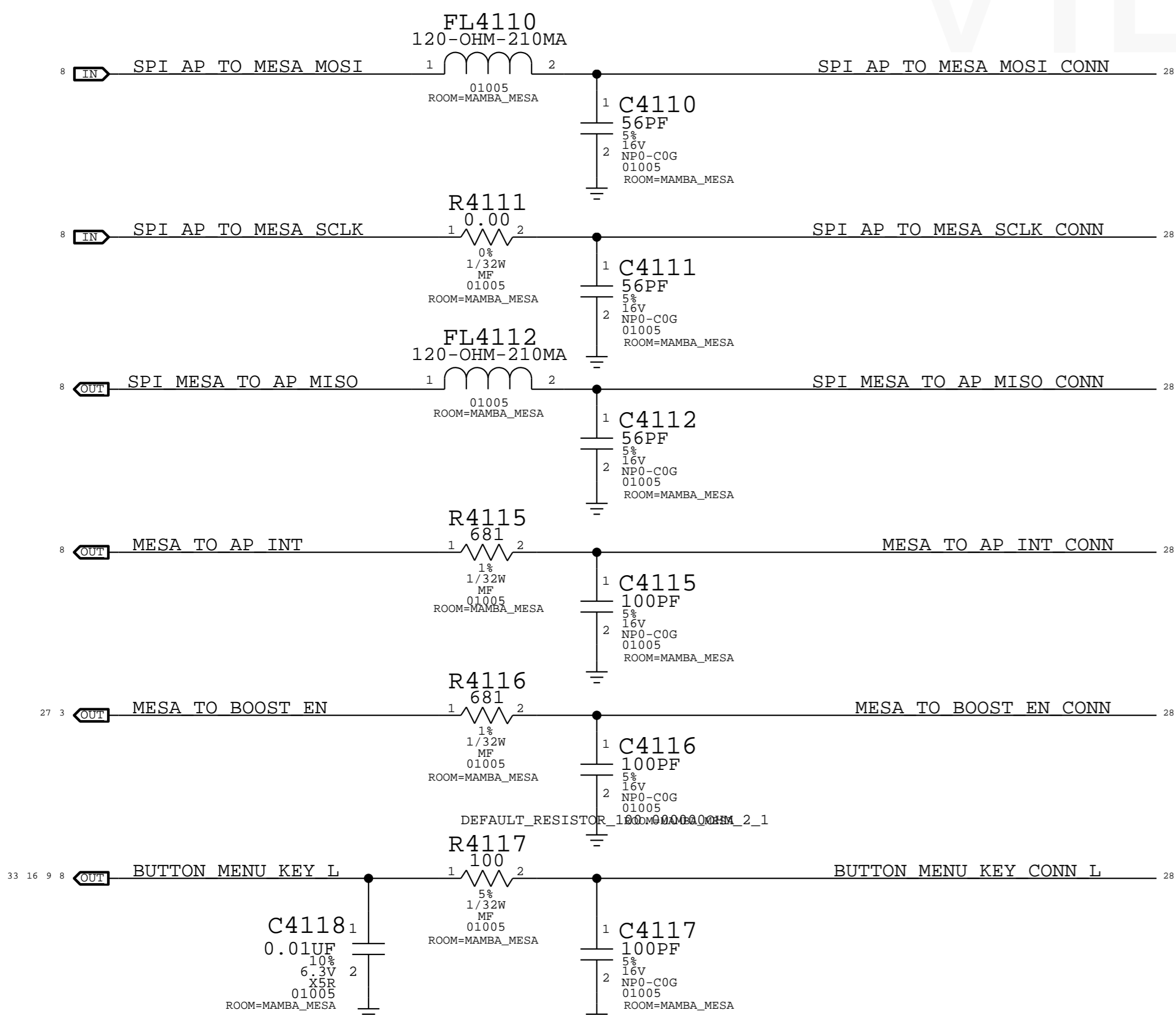
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| | | PAGE | 40 OF 49 |
| | | SHEET | 27 OF 59 |

MAMBA & MESA (M&M) FLEX

MESA POWER

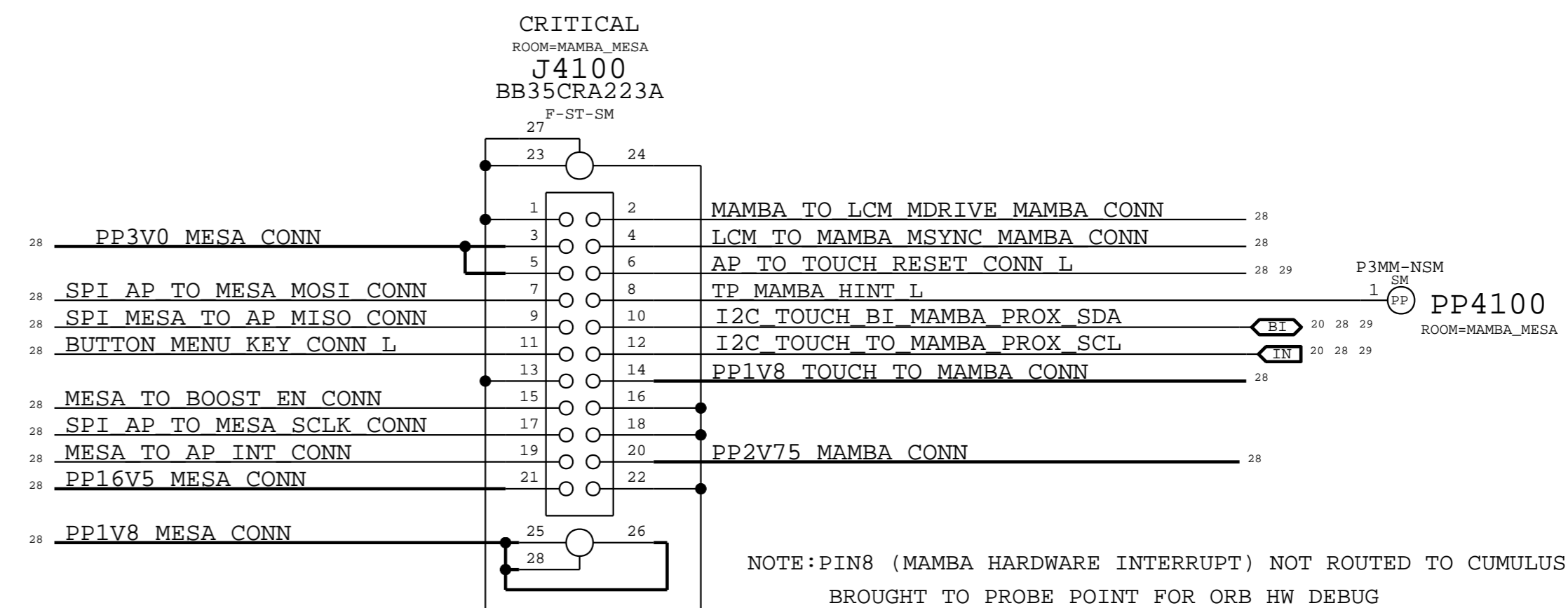


MESA DIGITAL I/O



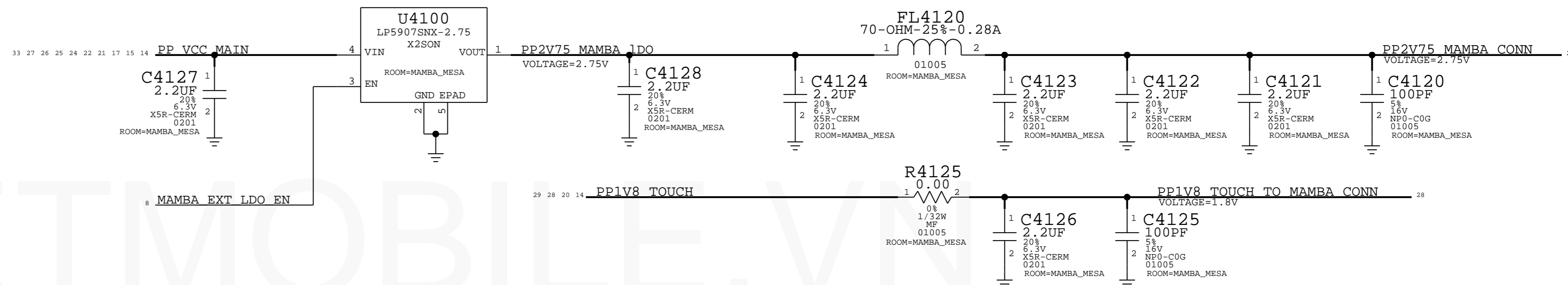
MAMBA & MESA CONNECTOR

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

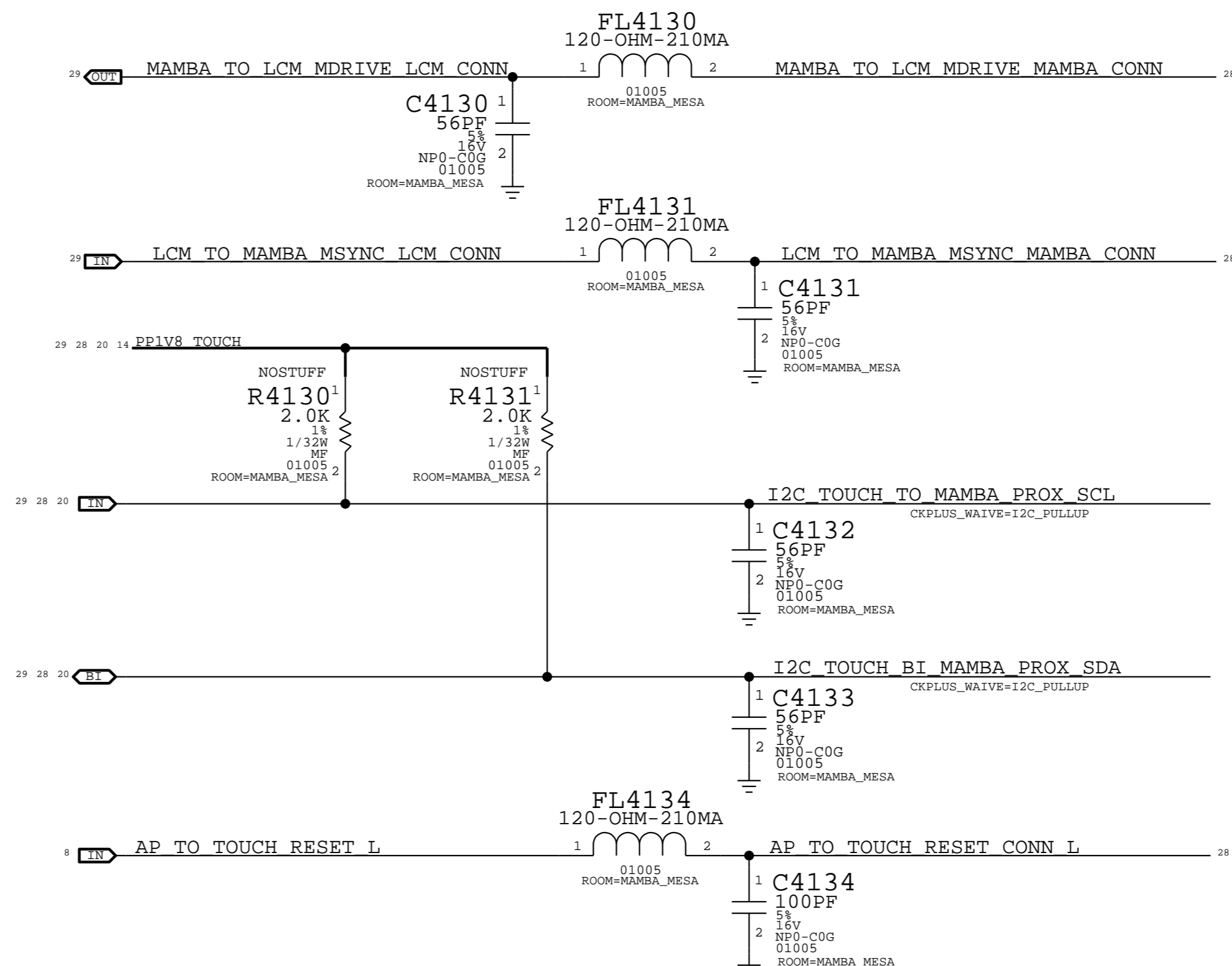


MAMBA POWER

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



MAMBA DIGITAL I/O



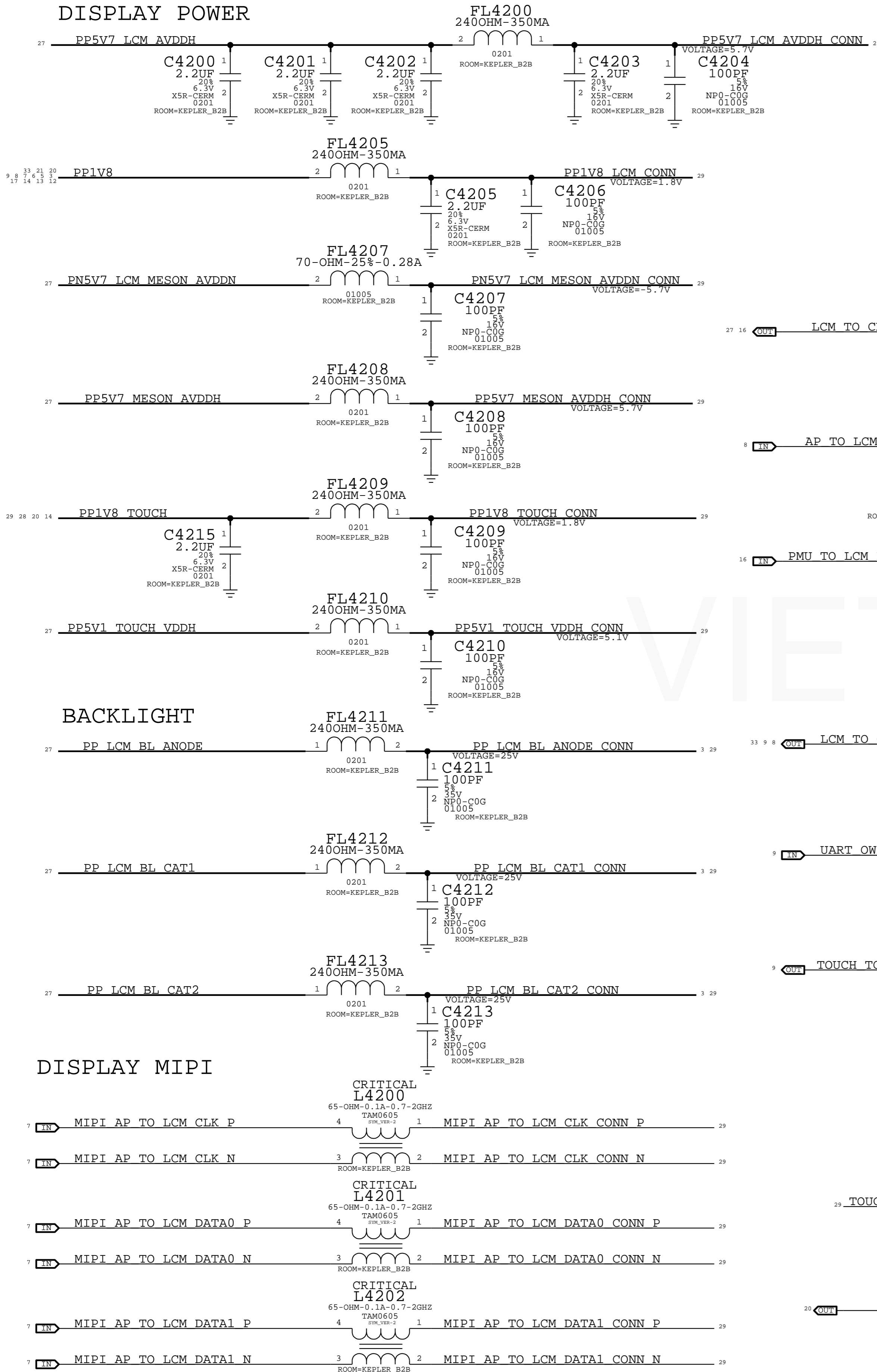
NOTE: TOUCH I2C PULL-UPS TO PP1V8_TOUCH INSIDE KEPLER
ADDING R4130, R4131 AS OPTION FOR TWEAKING VALUES.

| | |
|---|----------------------------|
| SYNC_MASTER=N/A | SYNC_DATE=N/A |
| PAGE TITLE TOUCH:ORB & MESA B2B | |
| Apple Inc. | DRAWING NUMBER 051-1902 |
| REVISION A.0.0 | SIZE D |
| BRANCH | PAGE 41 OF 49 |
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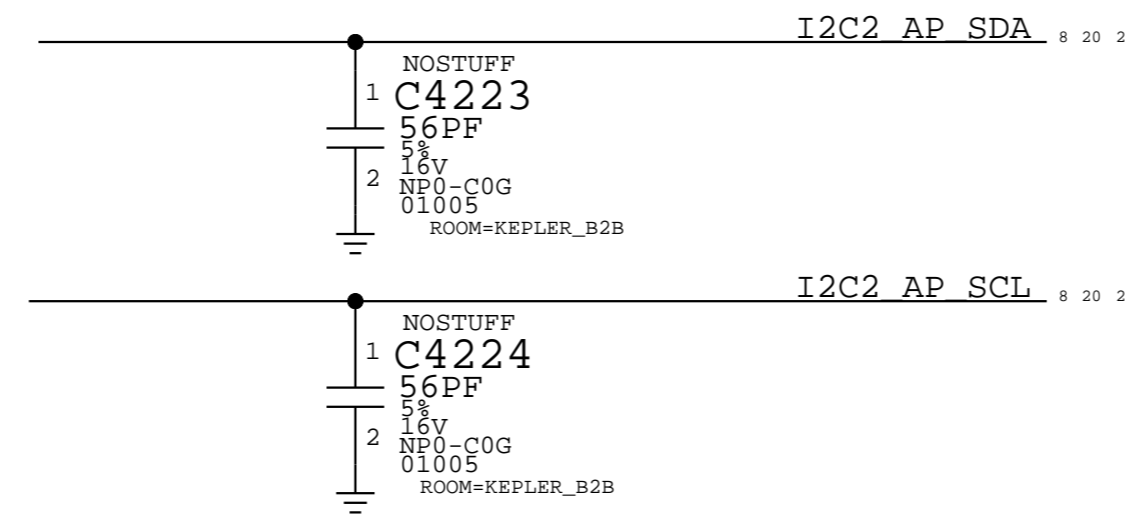
DISPLAY & TOUCH FLEX

DISPLAY CONNECTOR

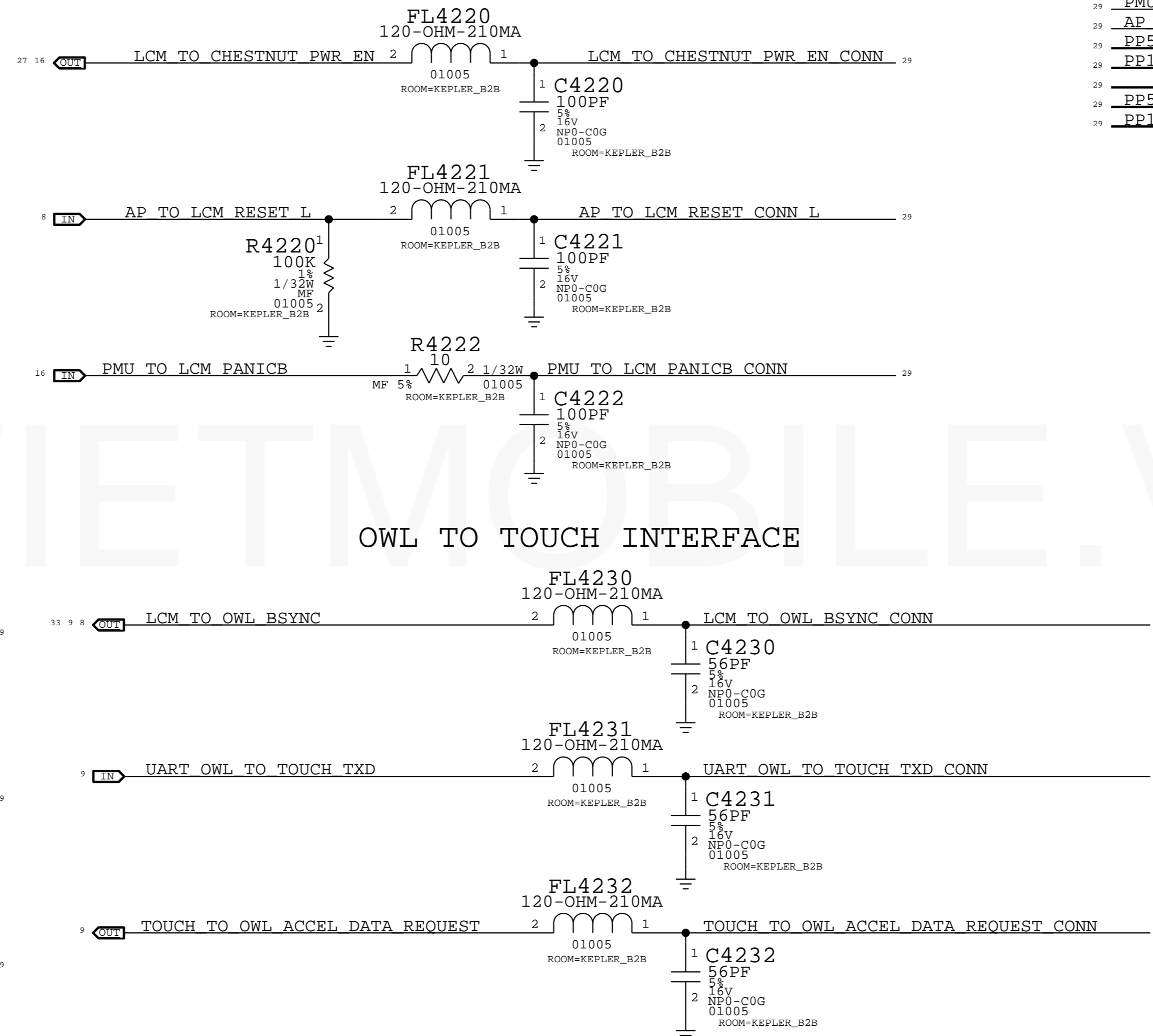
DISPLAY POWER



DISPLAY EEPROM I2C



DISPLAY CONTROL SIGNALS

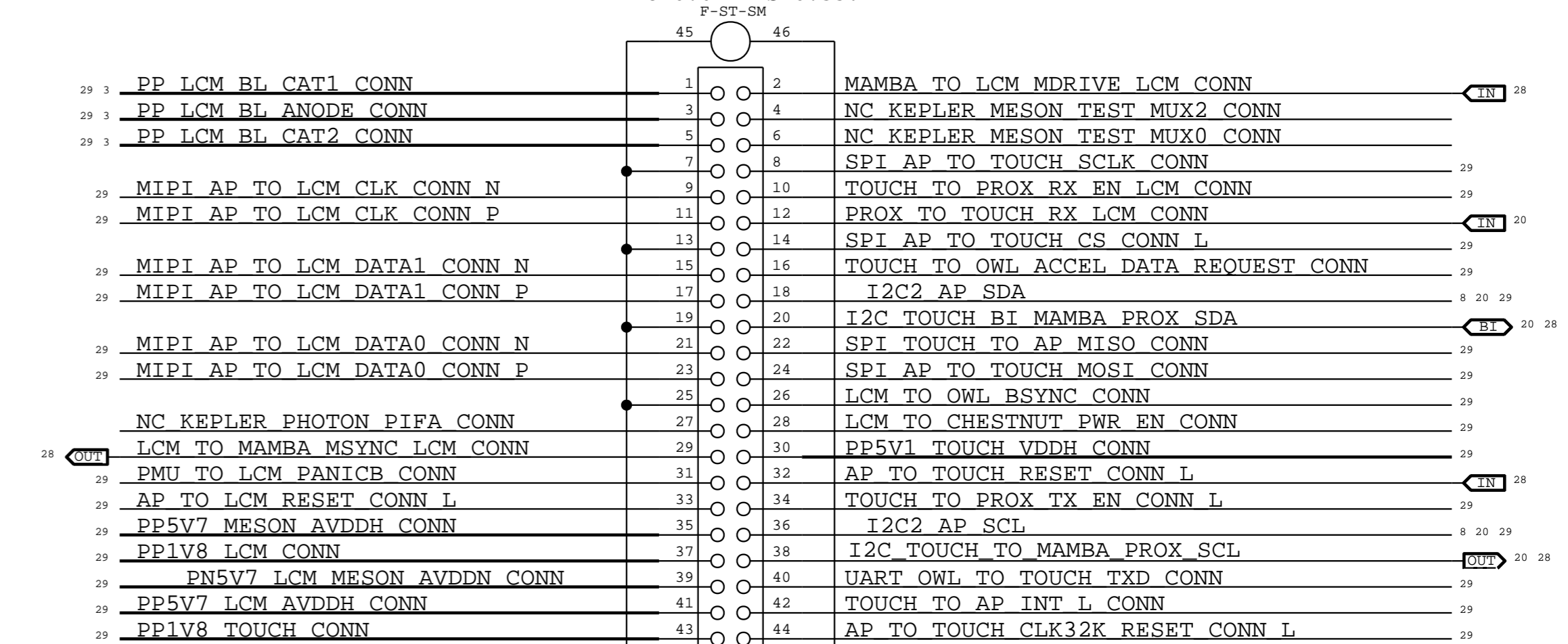


OWL TO TOUCH INTERFACE

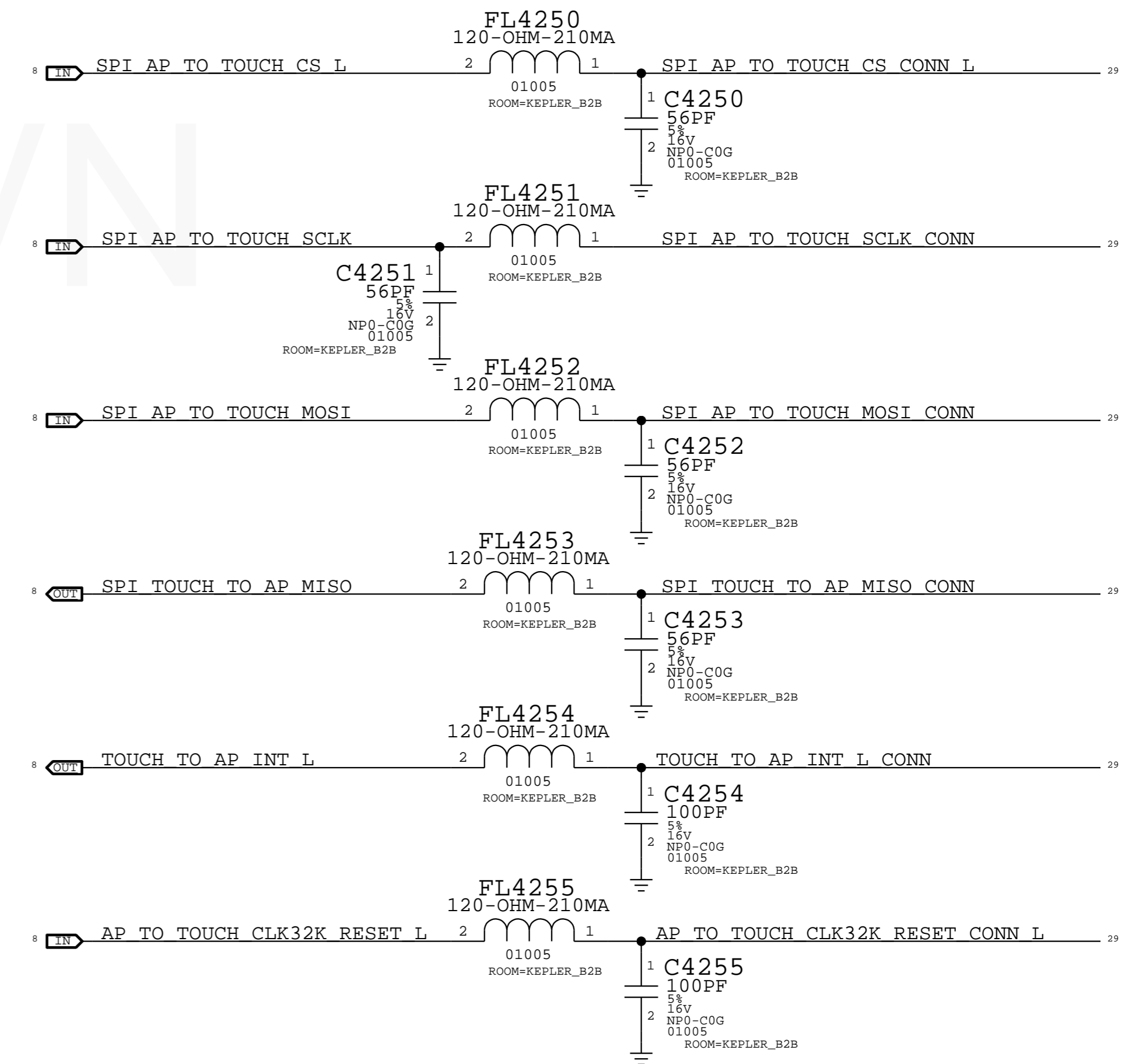
PROX TO TOUCH INTERFACE

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

CRITICAL
J4200
BM28P0.6-44DS-0.35V
F-ST-SM



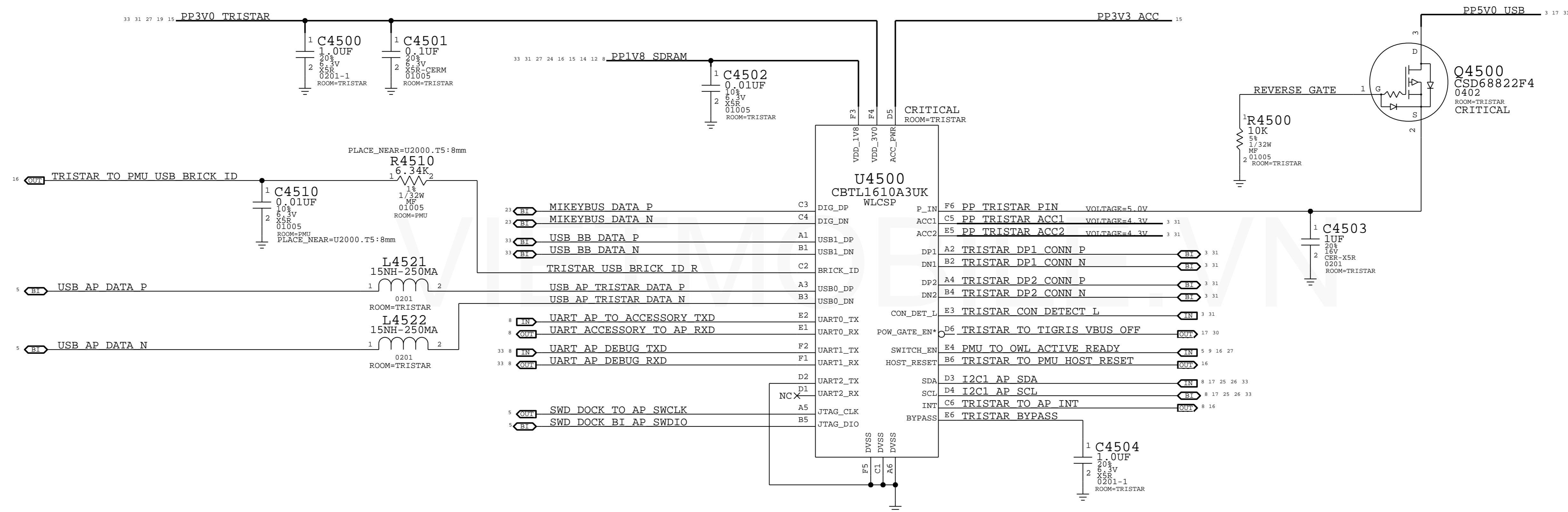
AP TO TOUCH INTERFACE



| | | | |
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| DRAWING NUMBER | | SIZE | |
| 051-1902 | | D | |
| REVISION | | | |
| A.0.0 | | | |
| BRANCH | | PAGE | |
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TRISTAR 2 (A3)

APN: 343S0695

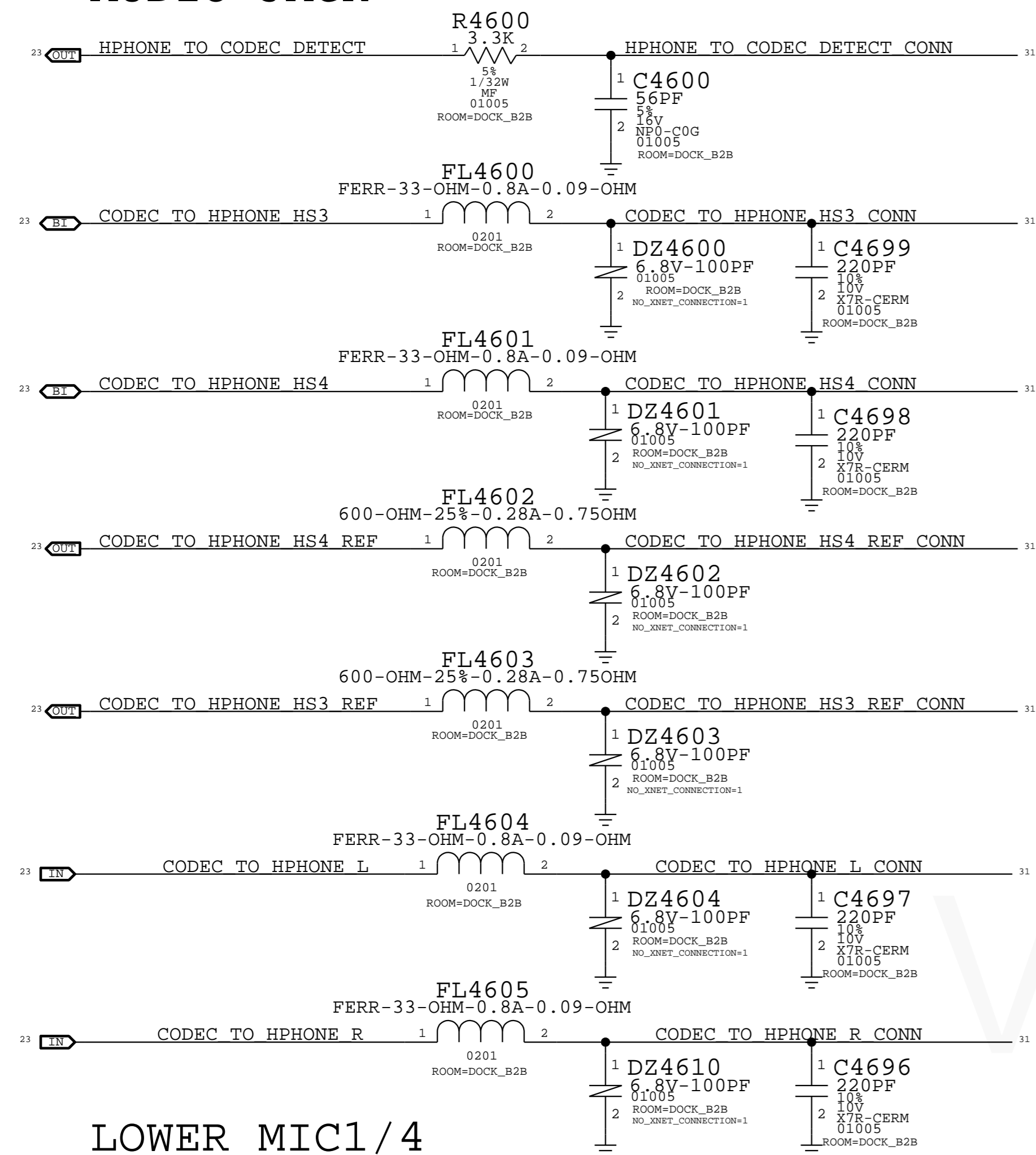


ROOM=TRISTAR
P3MM-NSM
33 17 TRISTAR TO TIGRIS VBUS OFF 1 PP4500

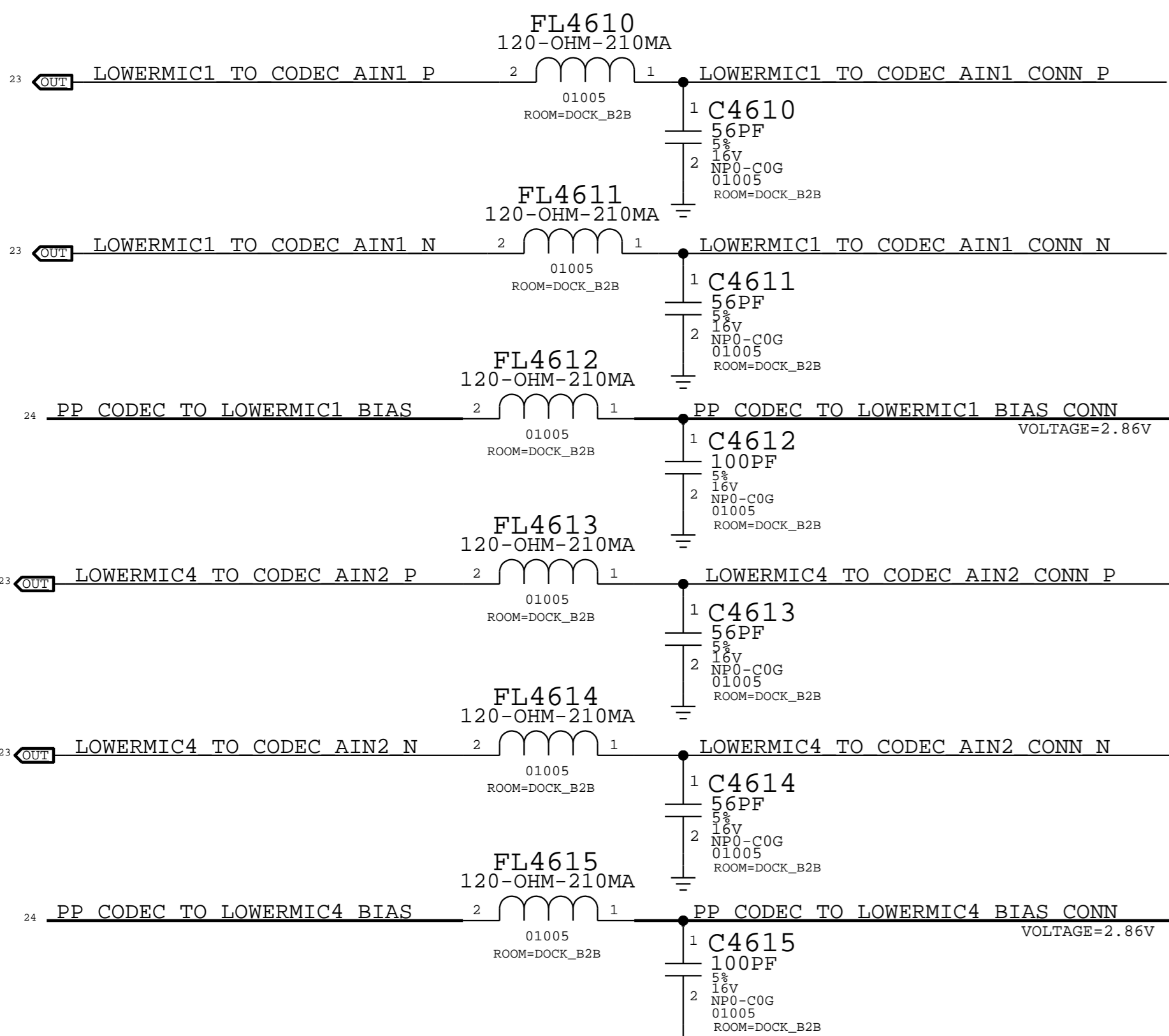
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| | | SHEET | 30 OF 59 |

DOCK FLEX CONNECTOR

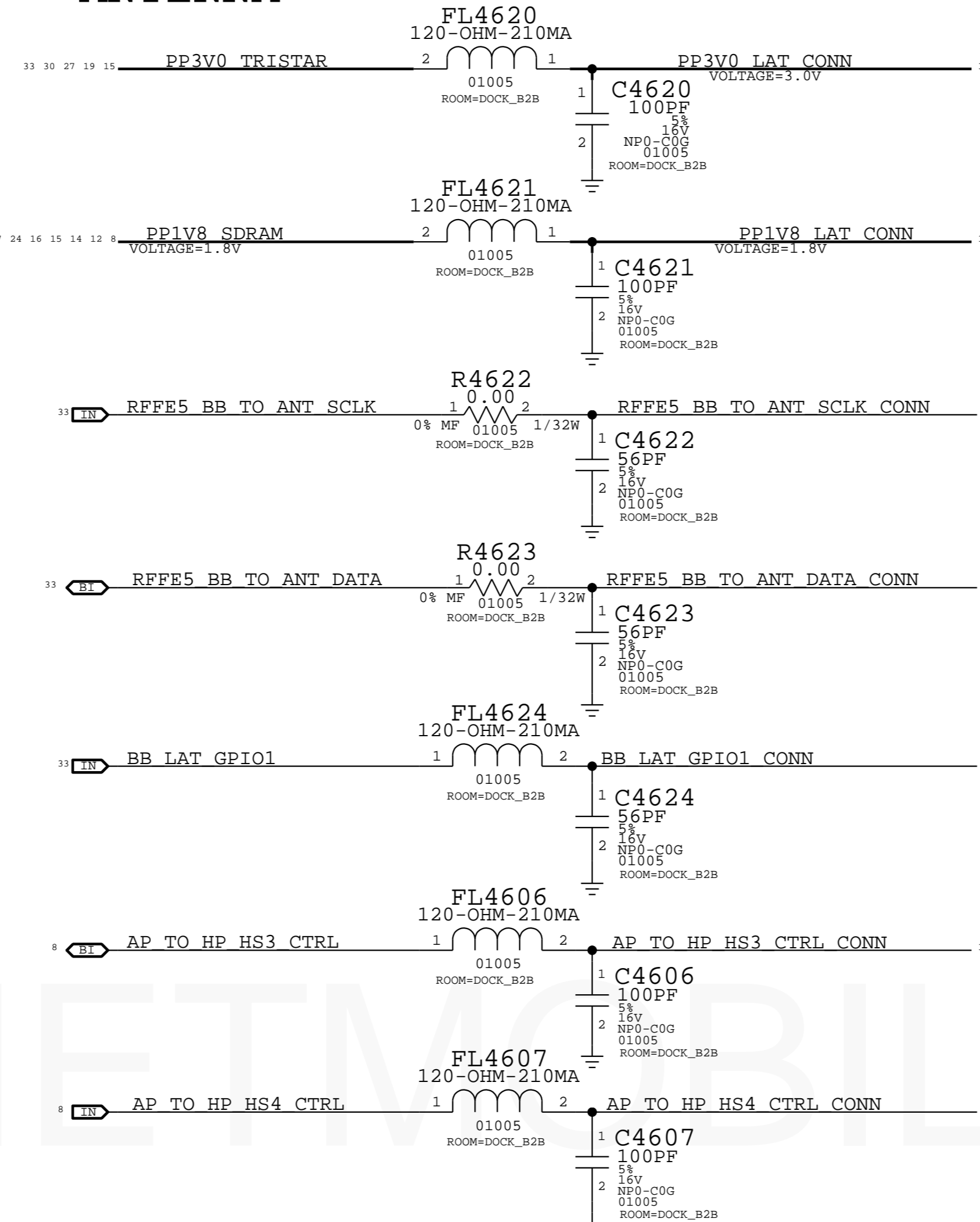
AUDIO JACK



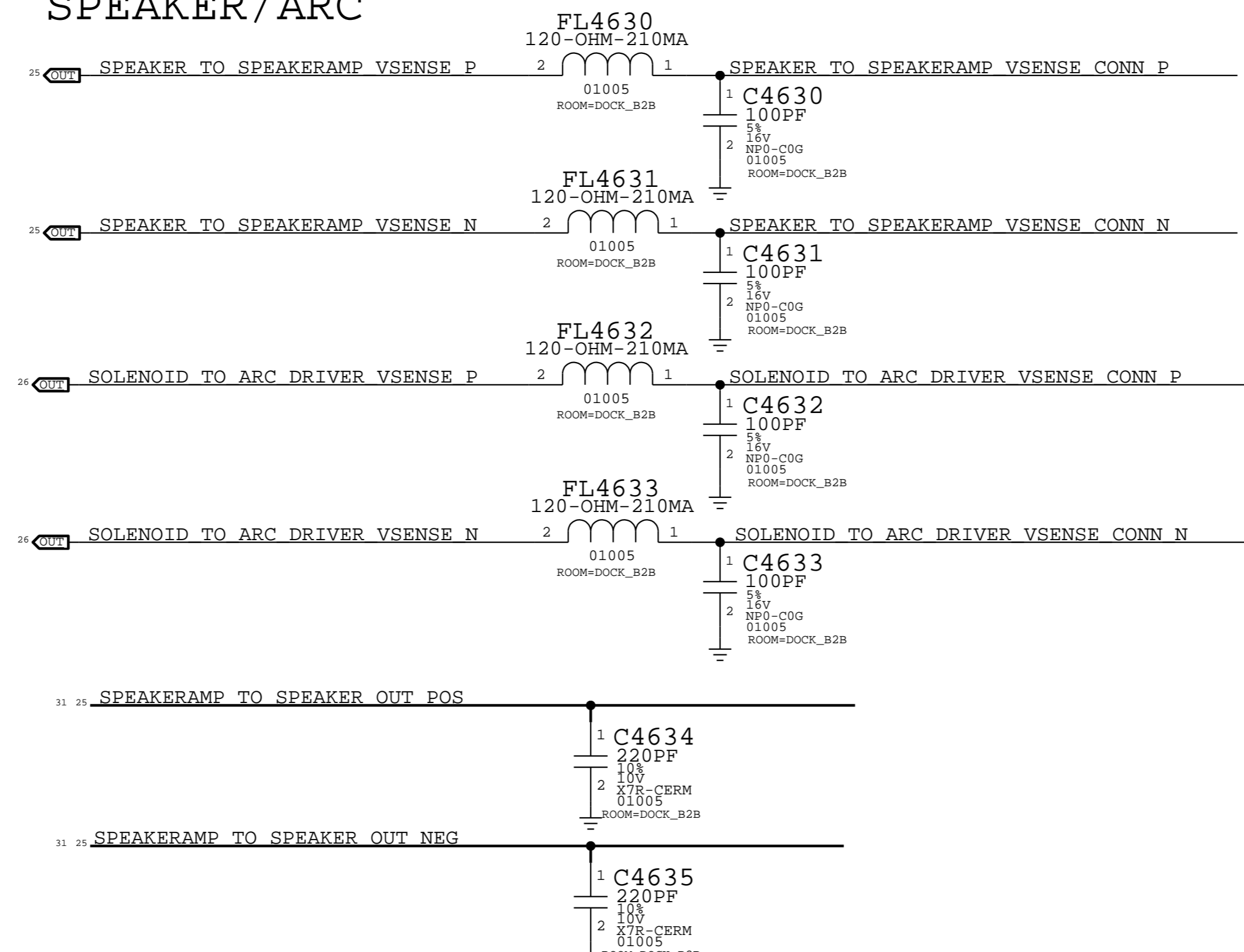
LOWER MIC1/4



ANTENNA

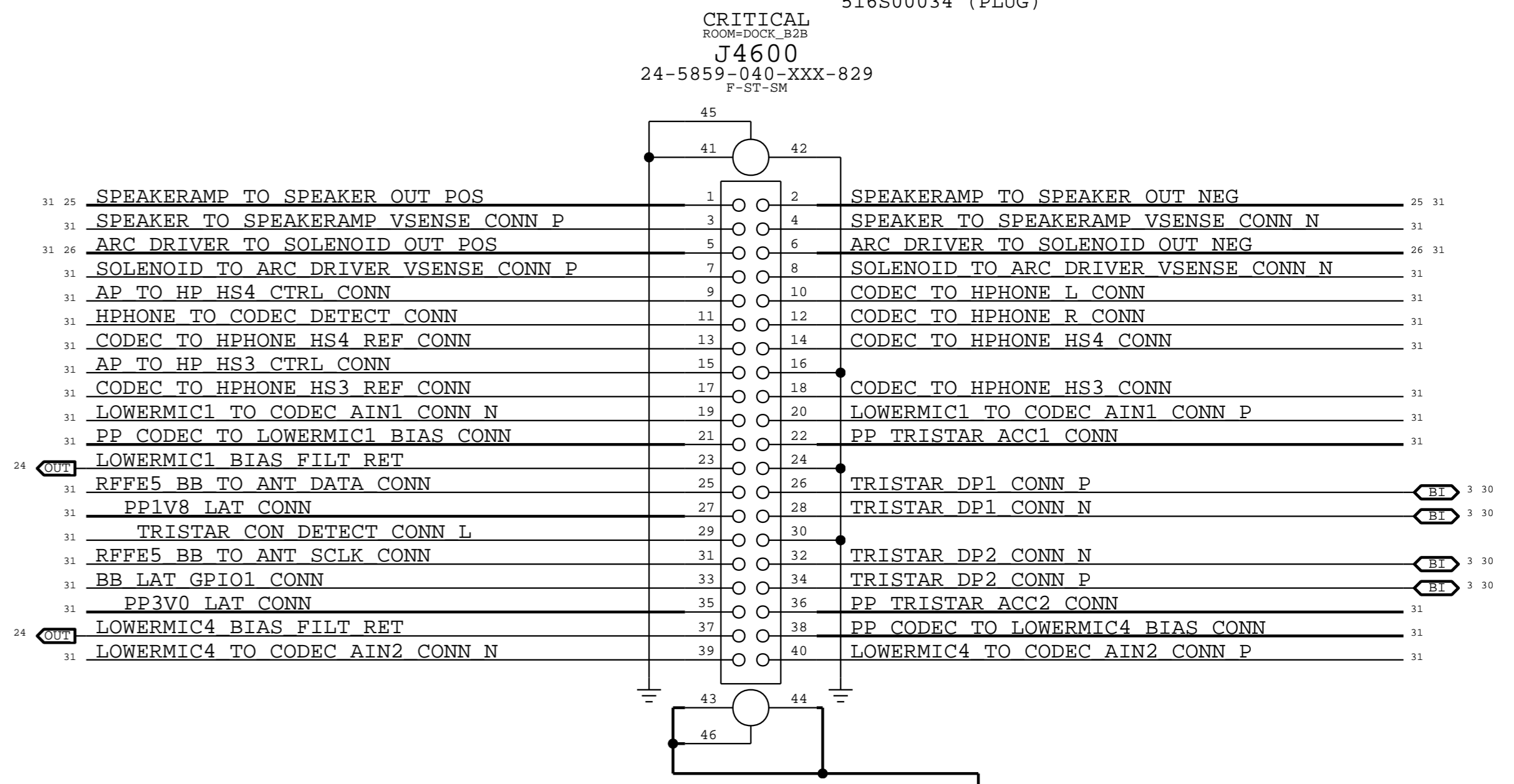


SPEAKER/ARC

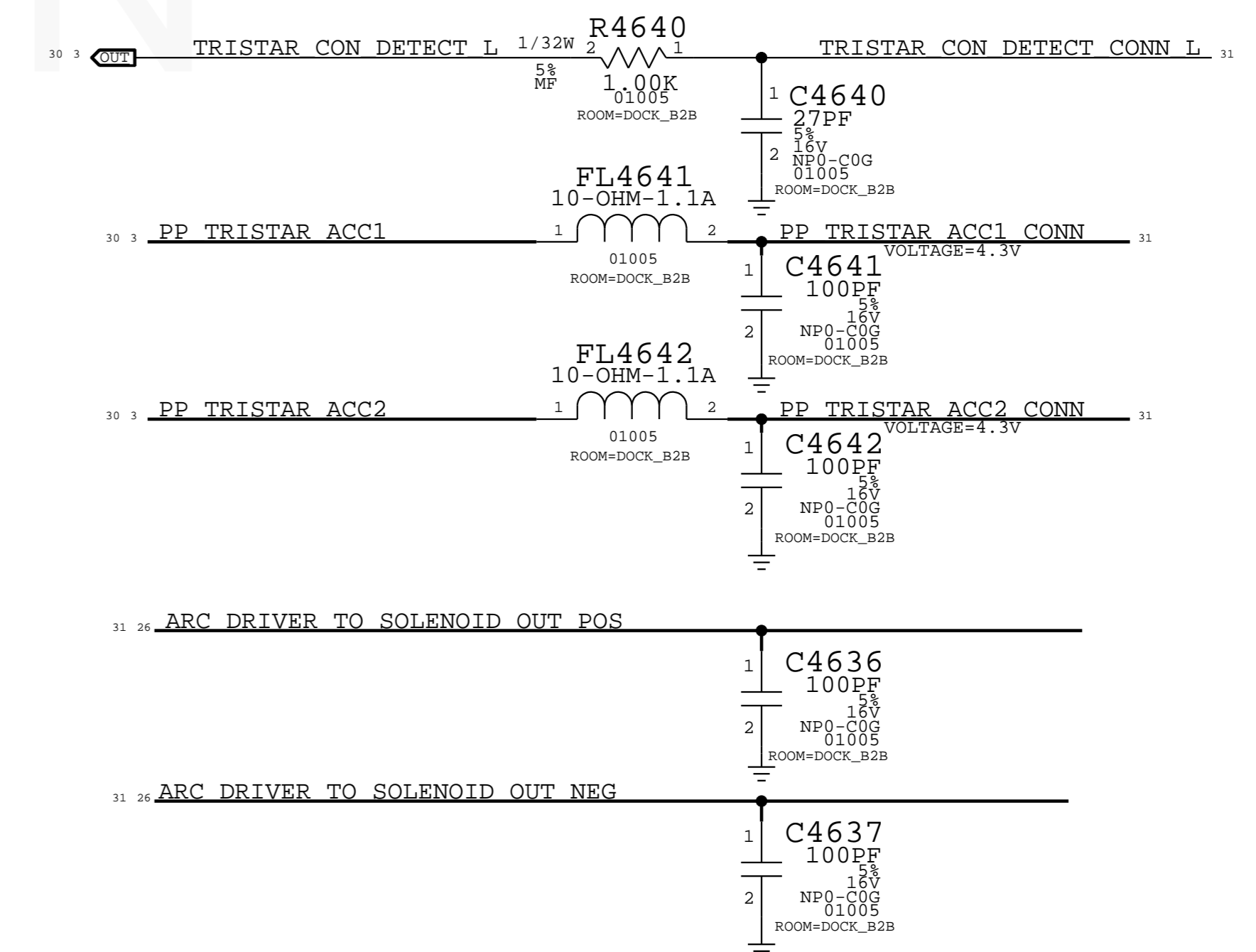


DOCK FLEX CONNECTOR

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



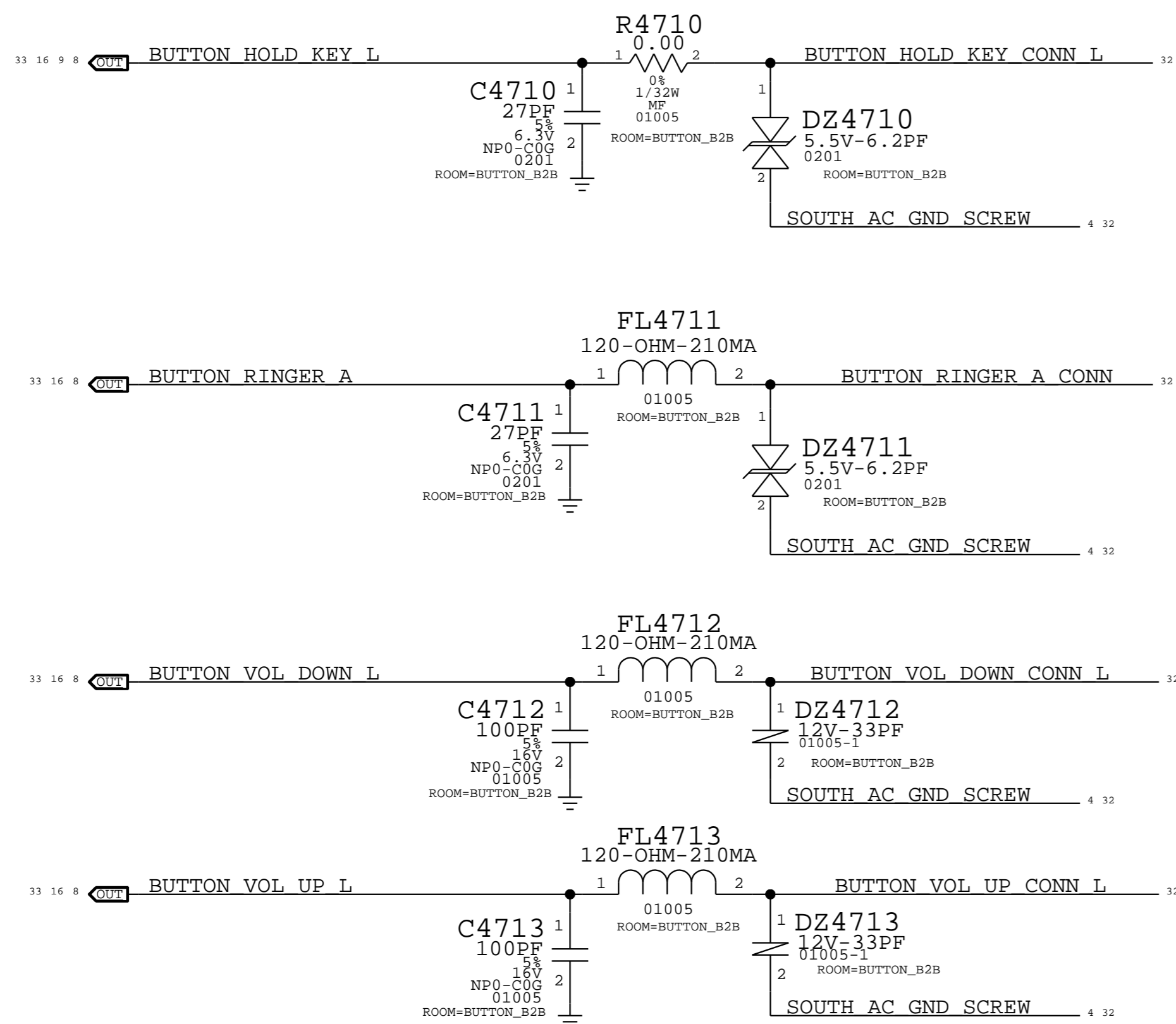
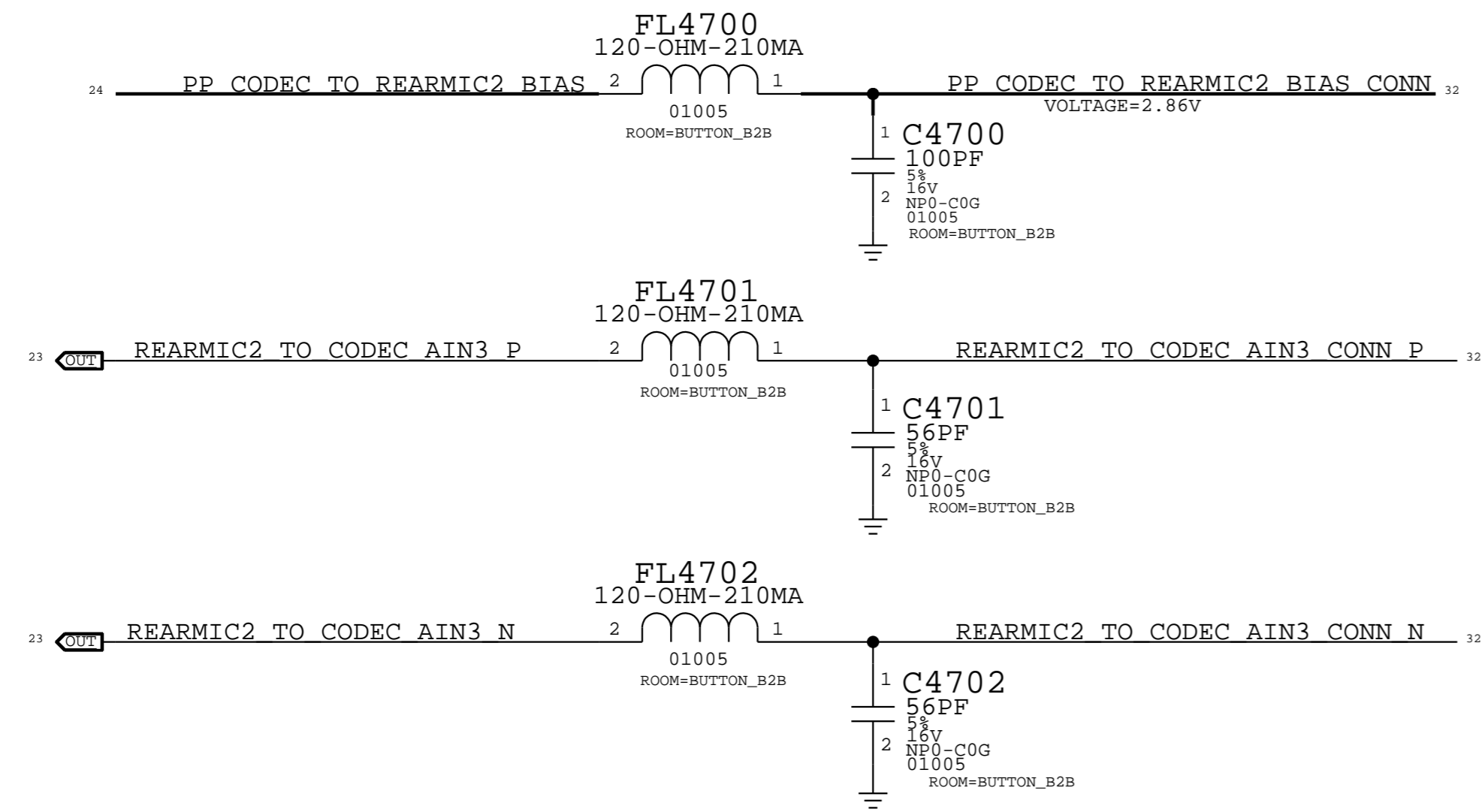
TRISTAR



| | | | |
|---|--|----------------|----------|
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BUTTON FLEX

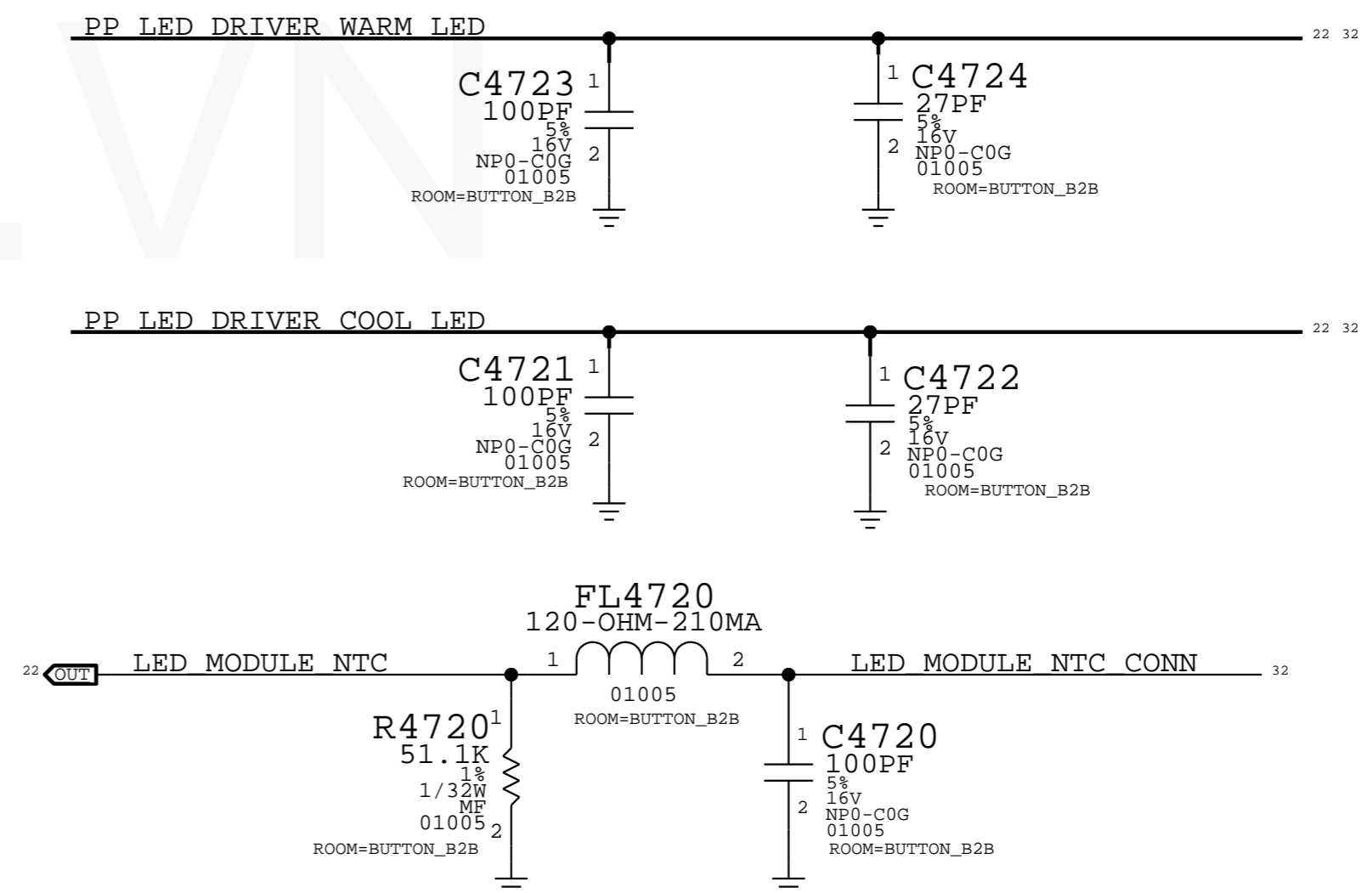
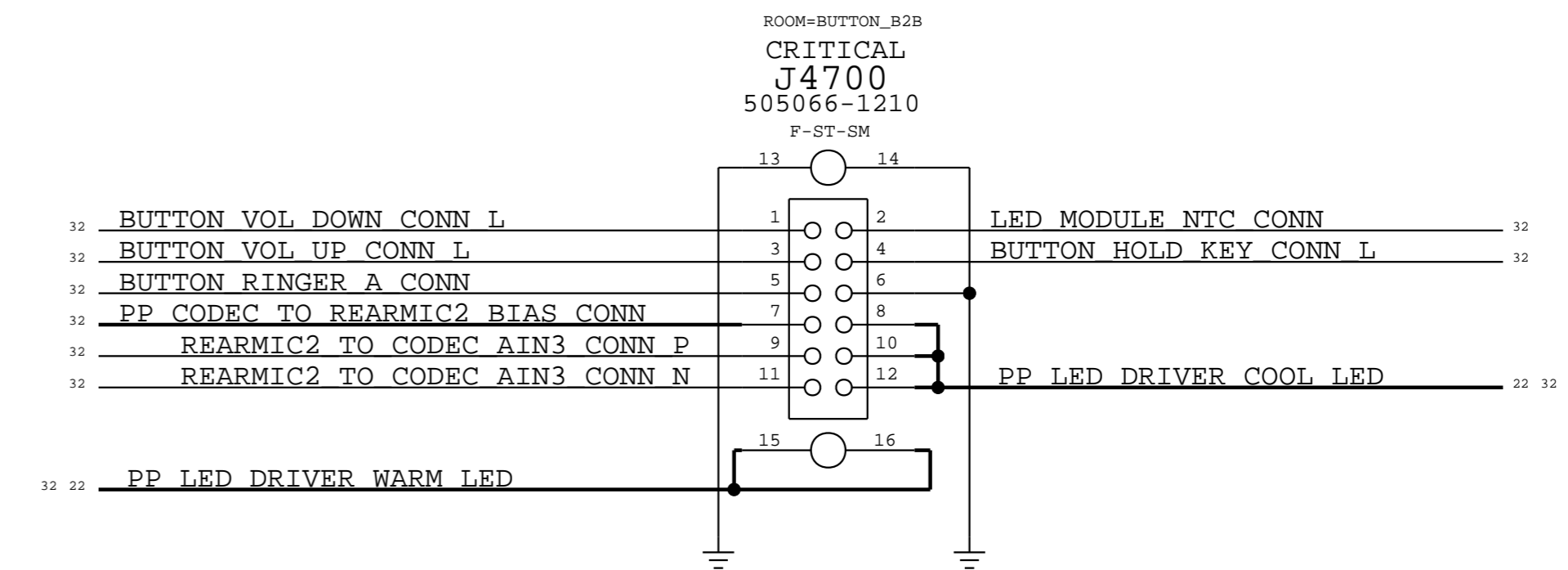
MIC2
ANC REF MIC



BUTTONS:
HOLD
RINGER
VOL UP/DOWN

BUTTON FLEX CONNECTOR

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



STROBE:
WARM LED
COOL LED
MODULE NTC

| | | | |
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| SYNC_MASTER=N/A | | SYNC_DATE=N/A | |
| PAGE TITLE | | | |
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| DRAWING NUMBER | | SIZE | |
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| REVISION | | A.0.0 | |
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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 |

N71 RADIO_MLB_MIMO - PVT

JULY 07, 2015

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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 |

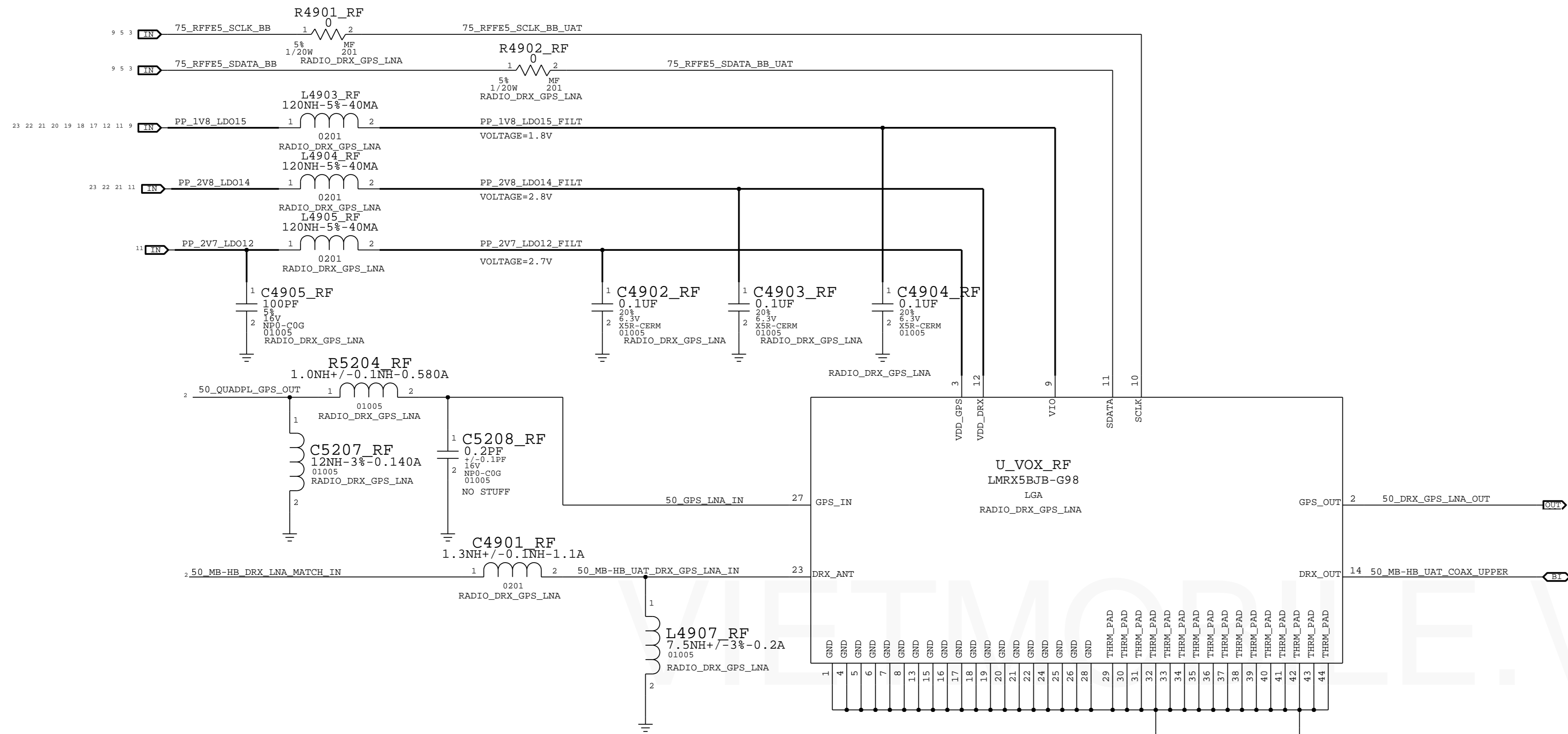
SIM ESD DIODE ALTERNATE

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

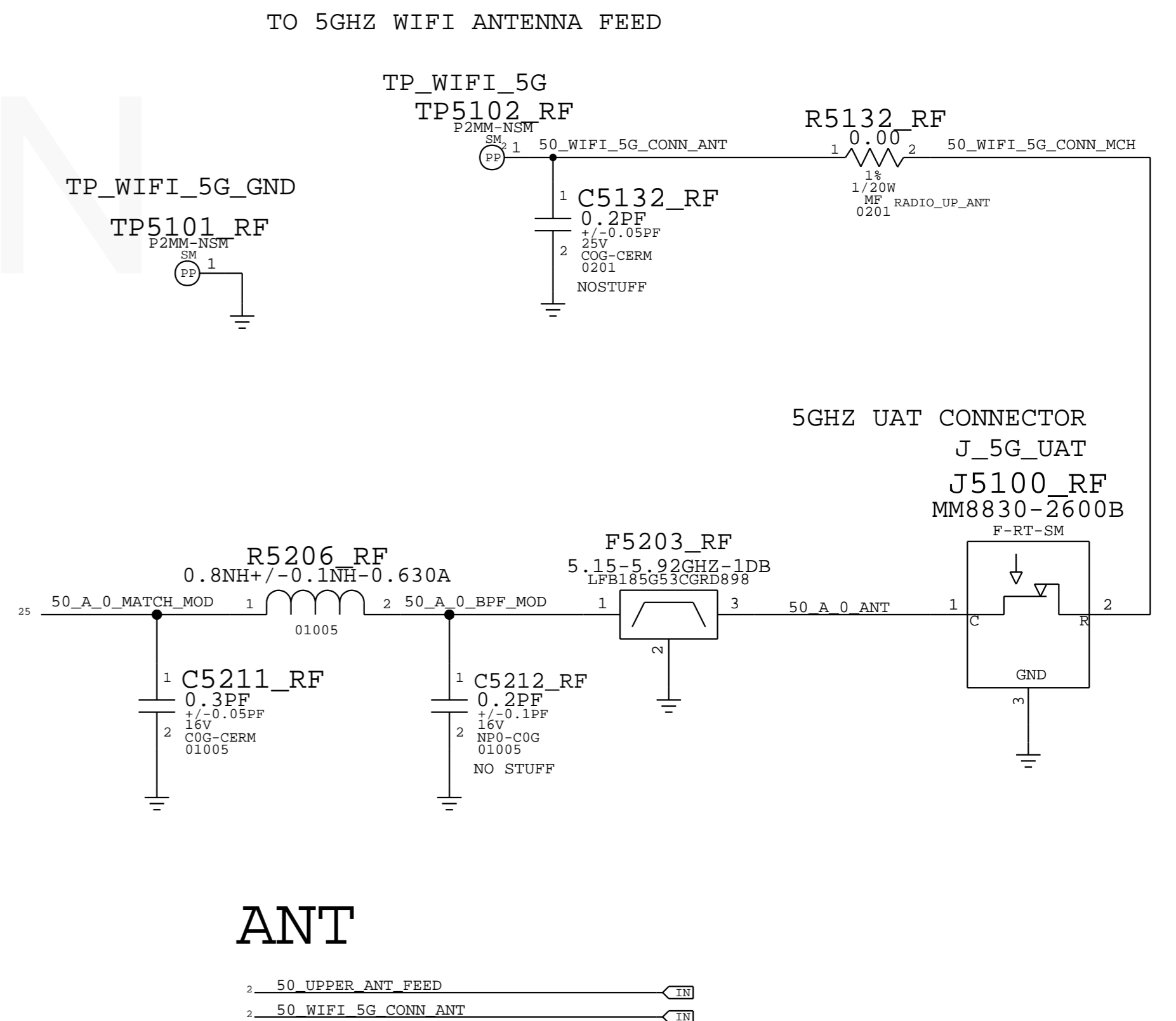
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N71-SPECIFIC RADIO PAGE 2

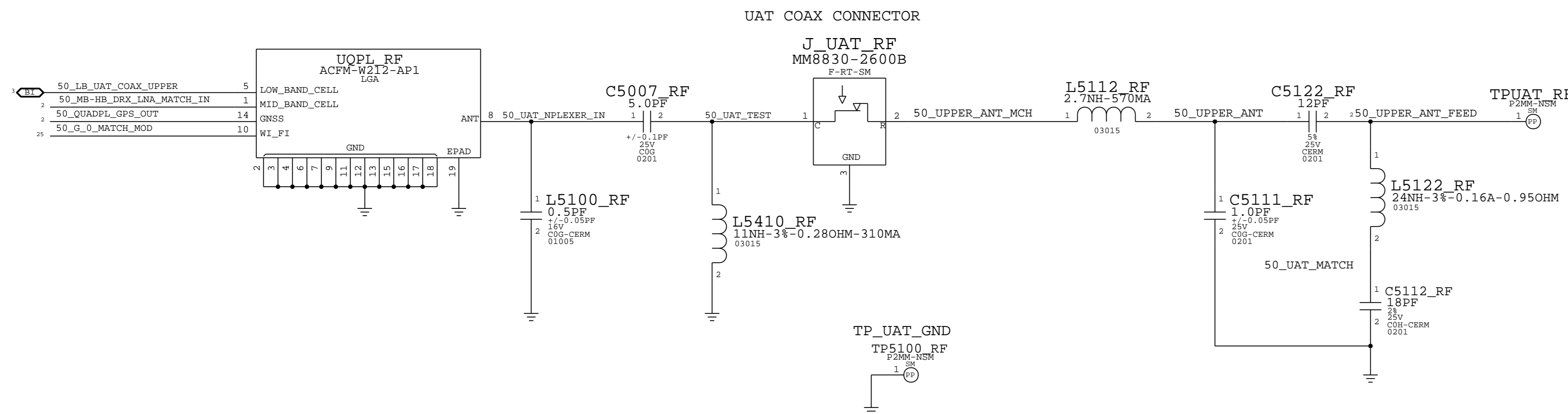
DIVERSITY LNA



WIFI ANT FEED



UAT ANT FEED



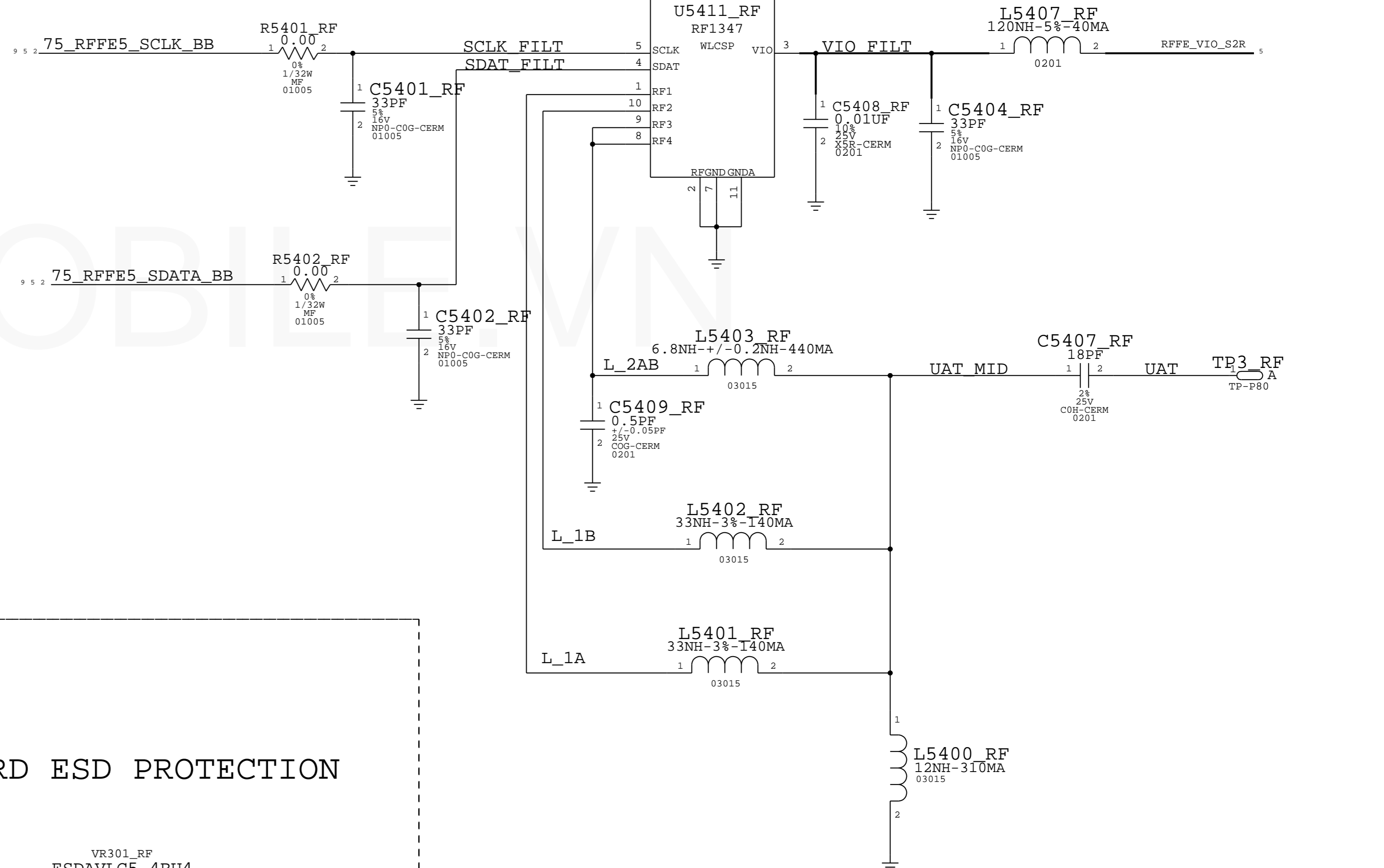
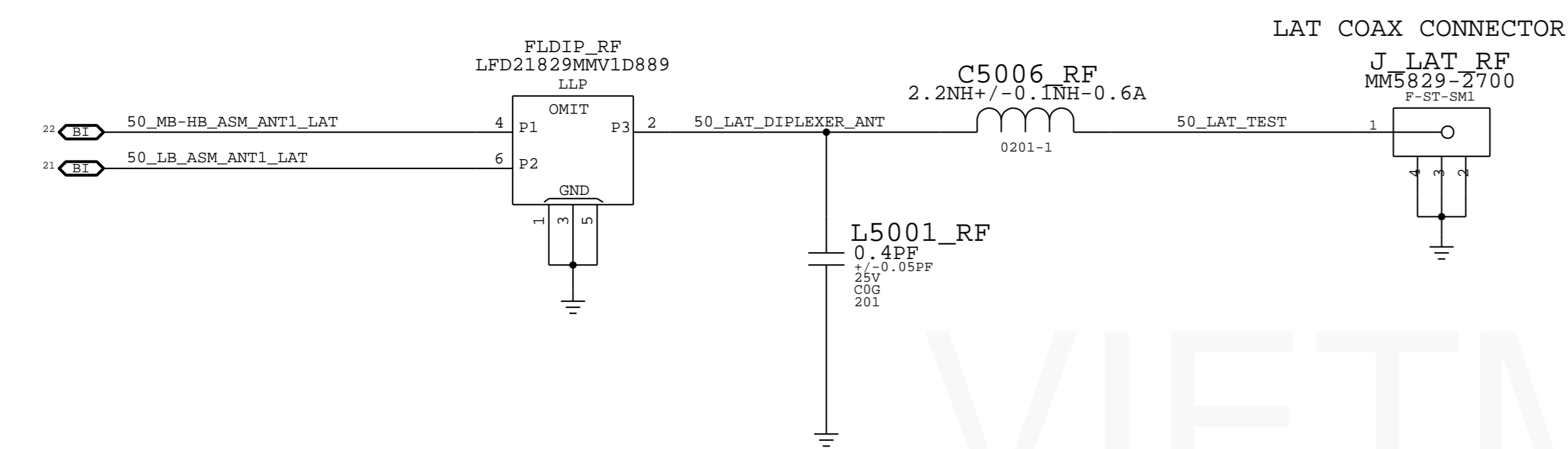
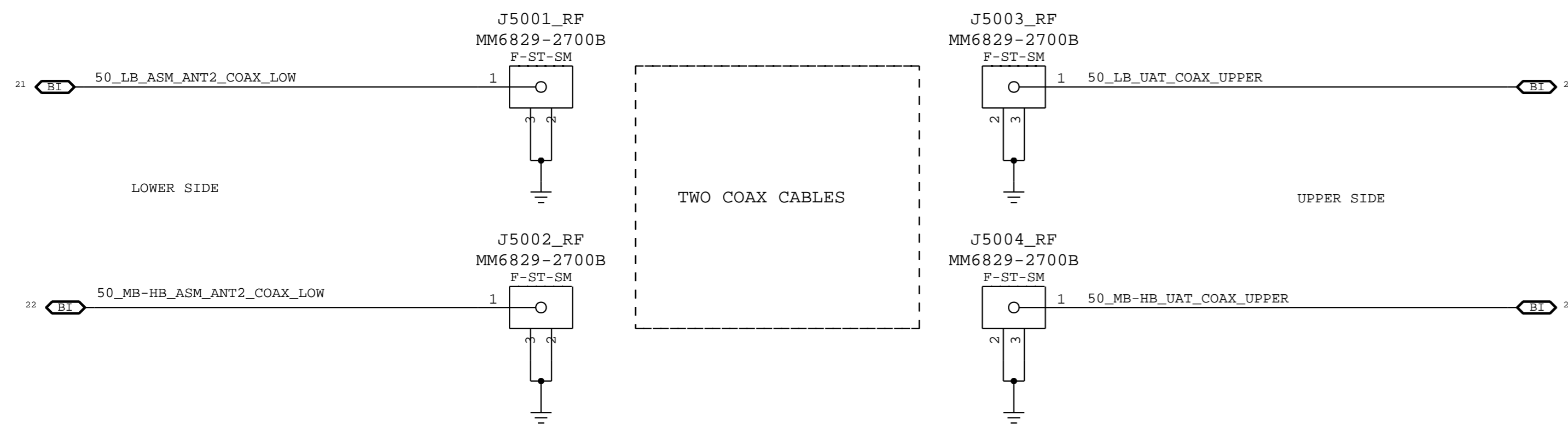
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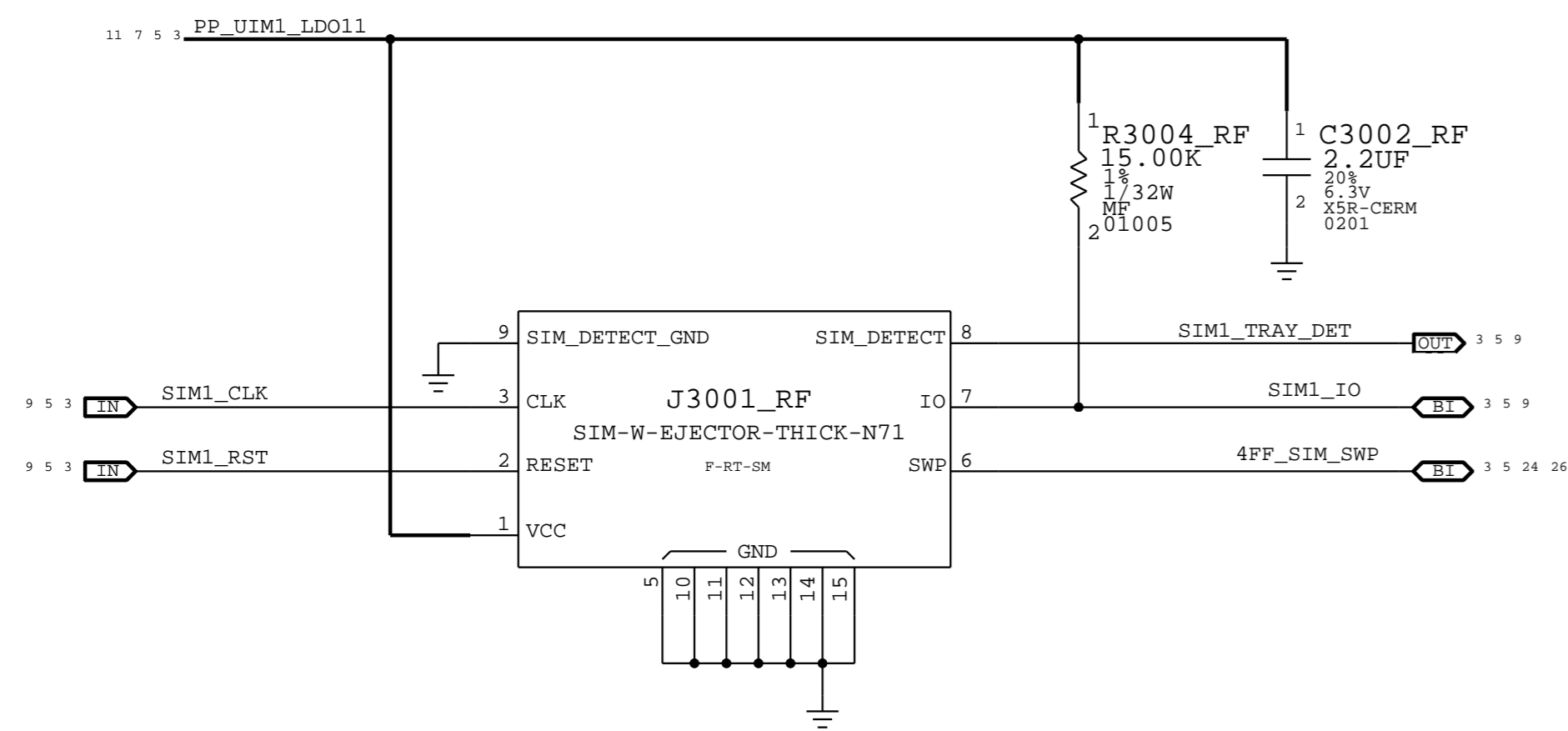
N71-SPECIFIC RADIO PAGE 3

ANTENNA FEEDS AND CONNECTORS

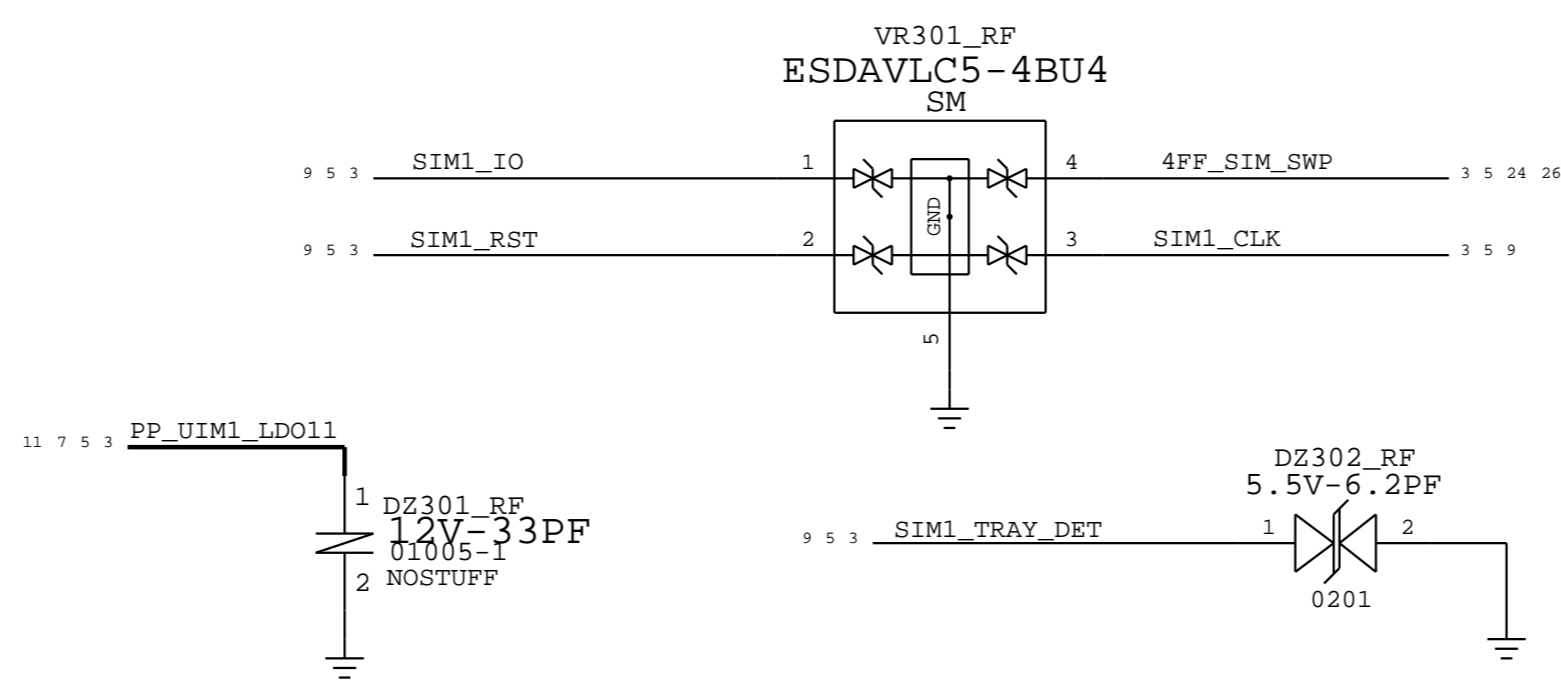
UAT TUNER



SIM CARD CONNECTOR



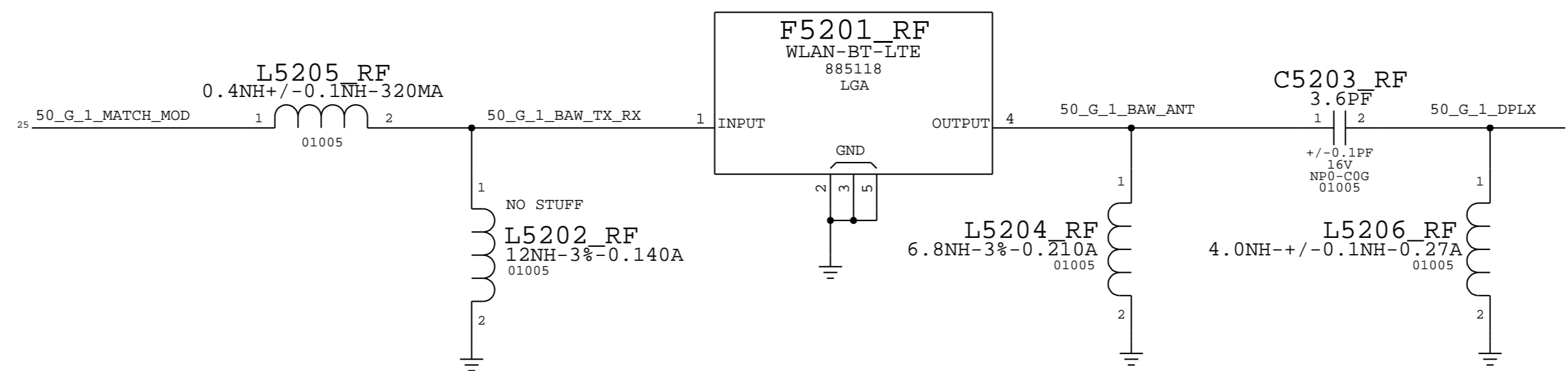
SIM CARD ESD PROTECTION




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N71-SPECIFIC RADIO PAGE 4

WLAN LAT 2.4GHZ BAW BPF



VIETMOBILE.VN

| | | | |
|--|----------------|-------------------------|----------|
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| | | SHEET | 37 OF 59 |

AP TO BB/WLAN/BT/SH CONNECTIONS

MLB PROBE POINTS

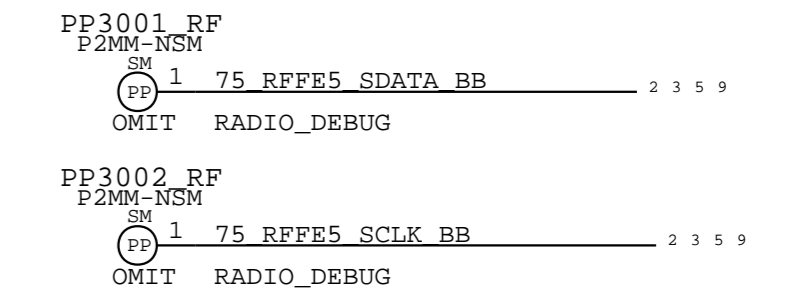
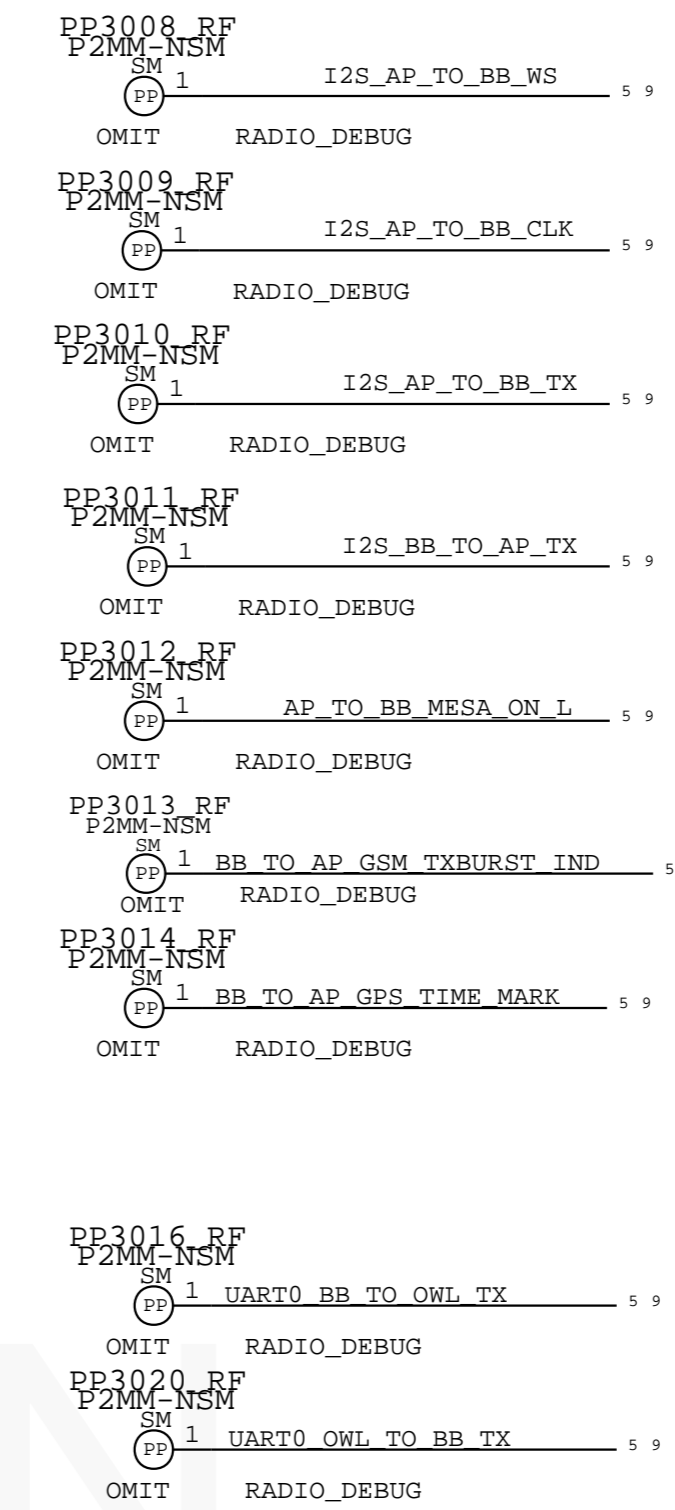
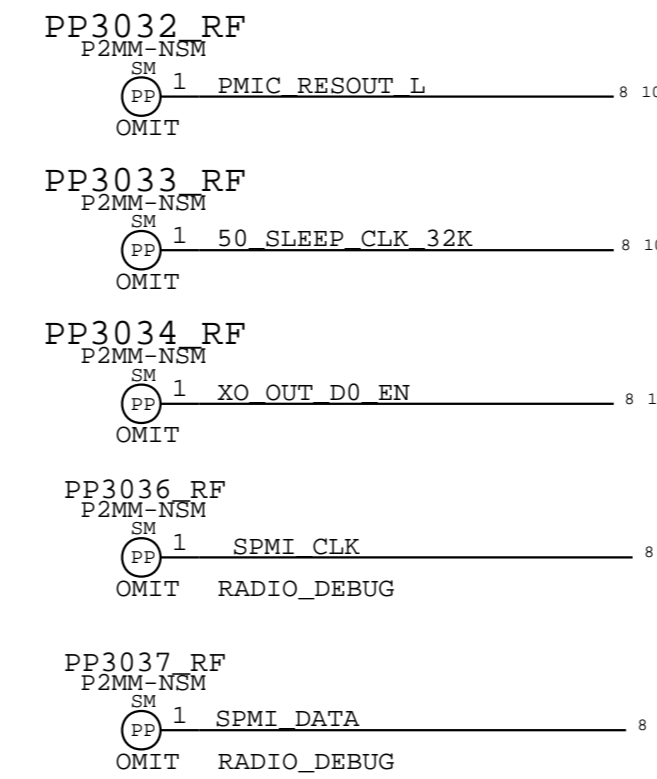
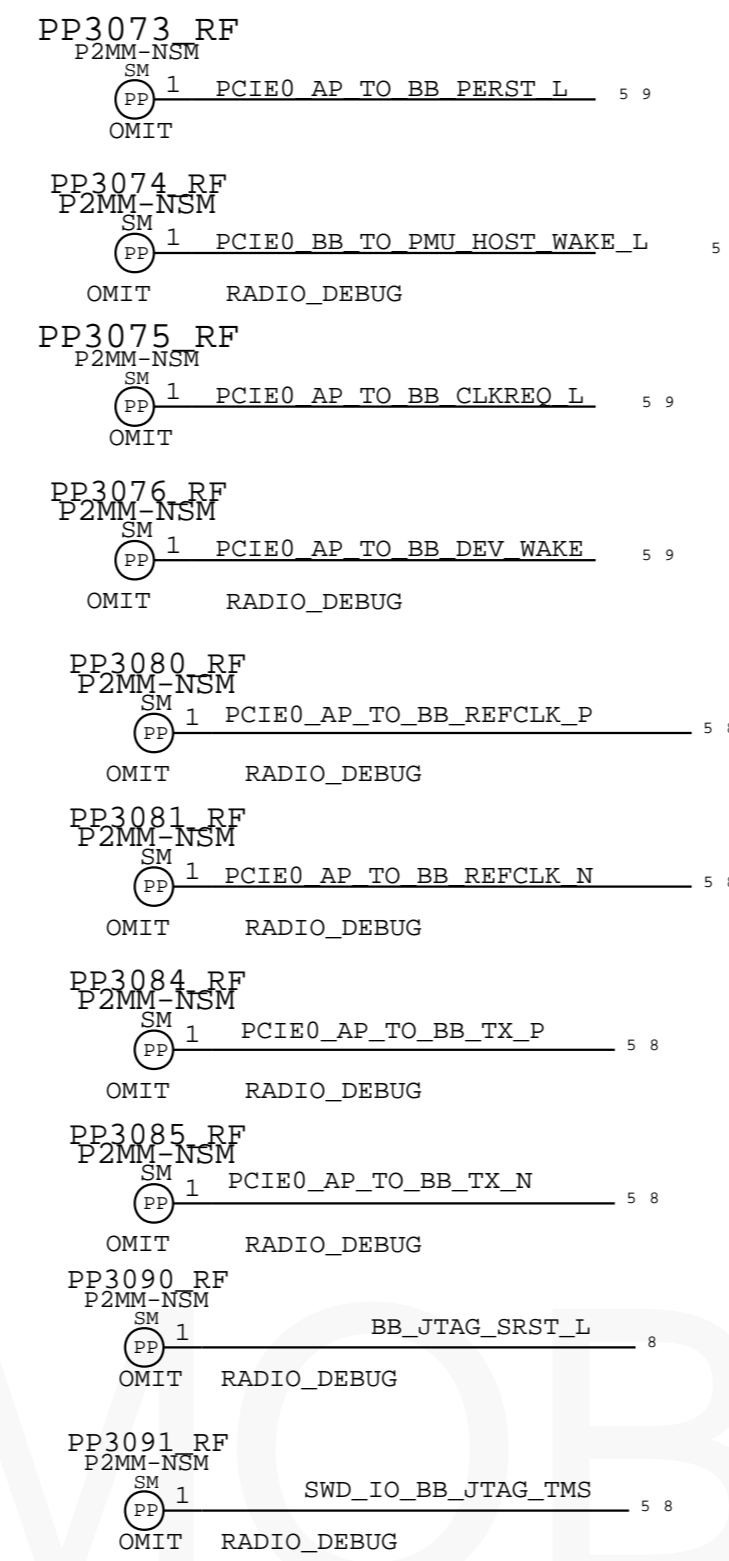
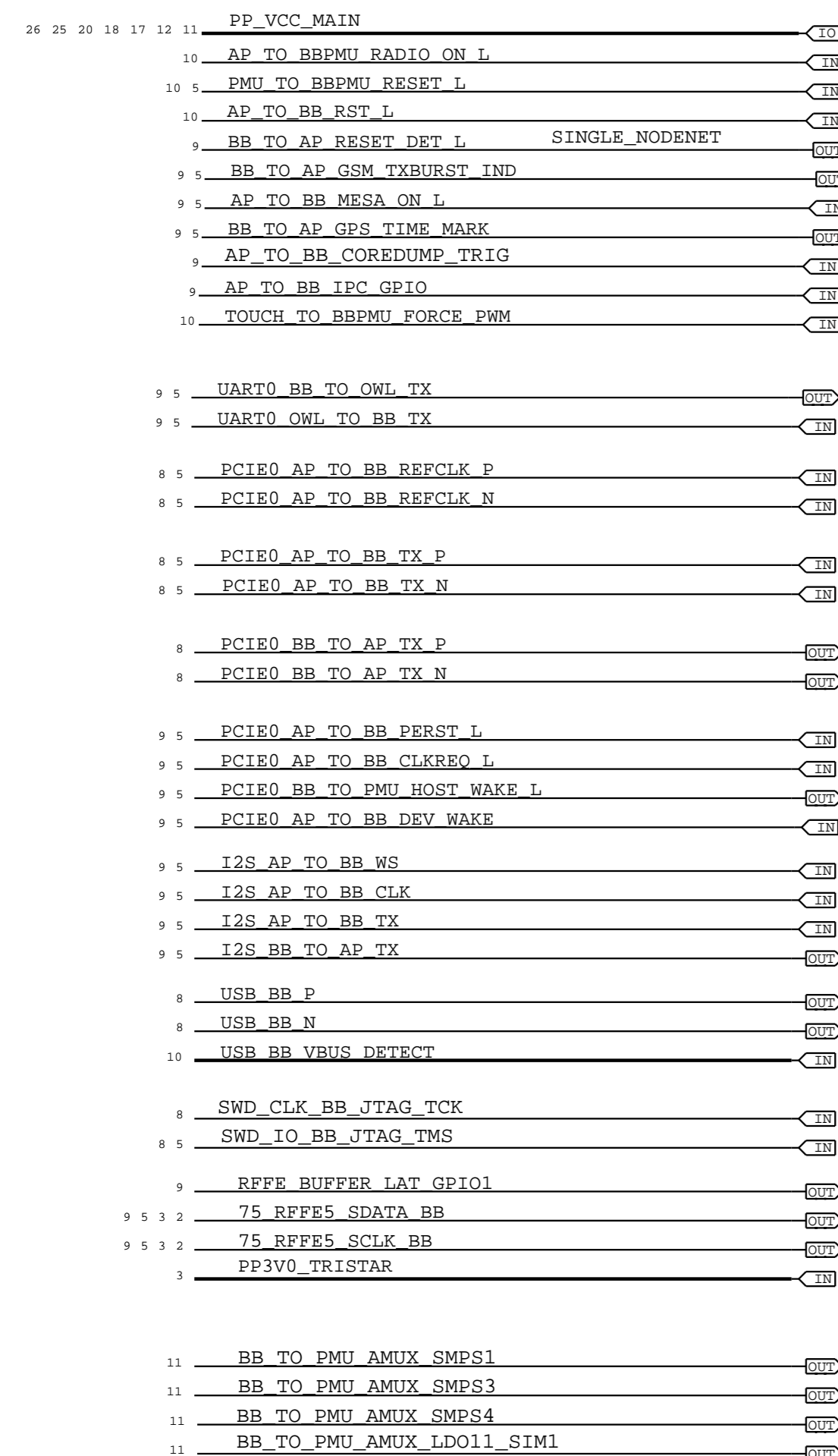
BASEBAND

WLAN/BT

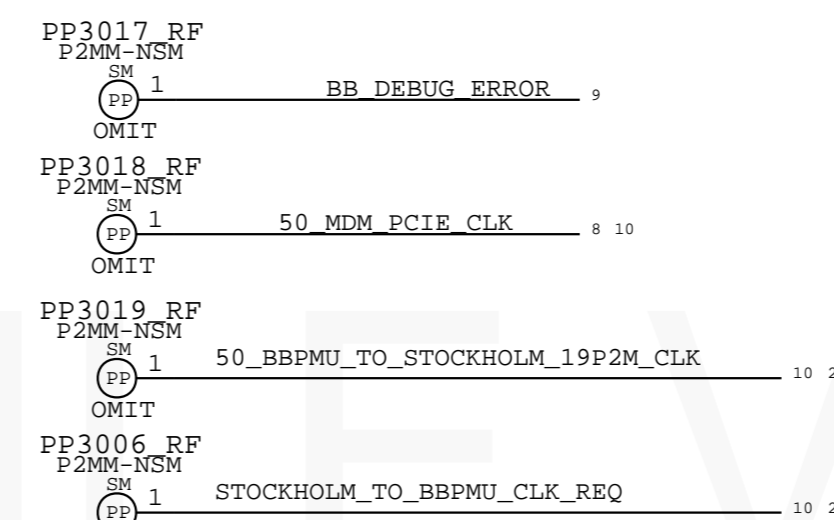
PCIE

PMU

ANT TUNER



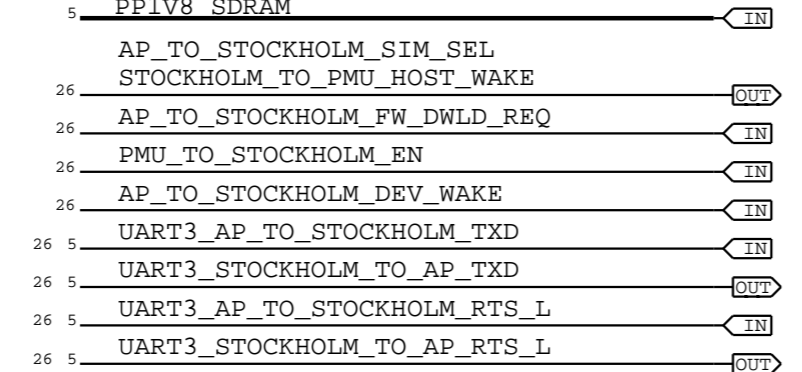
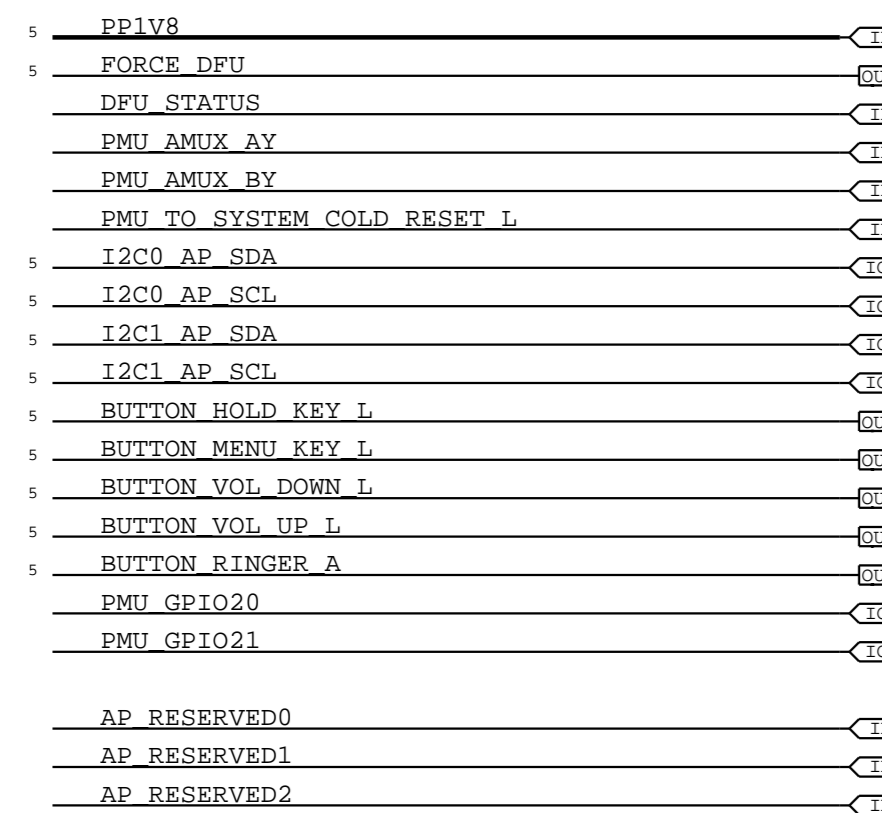
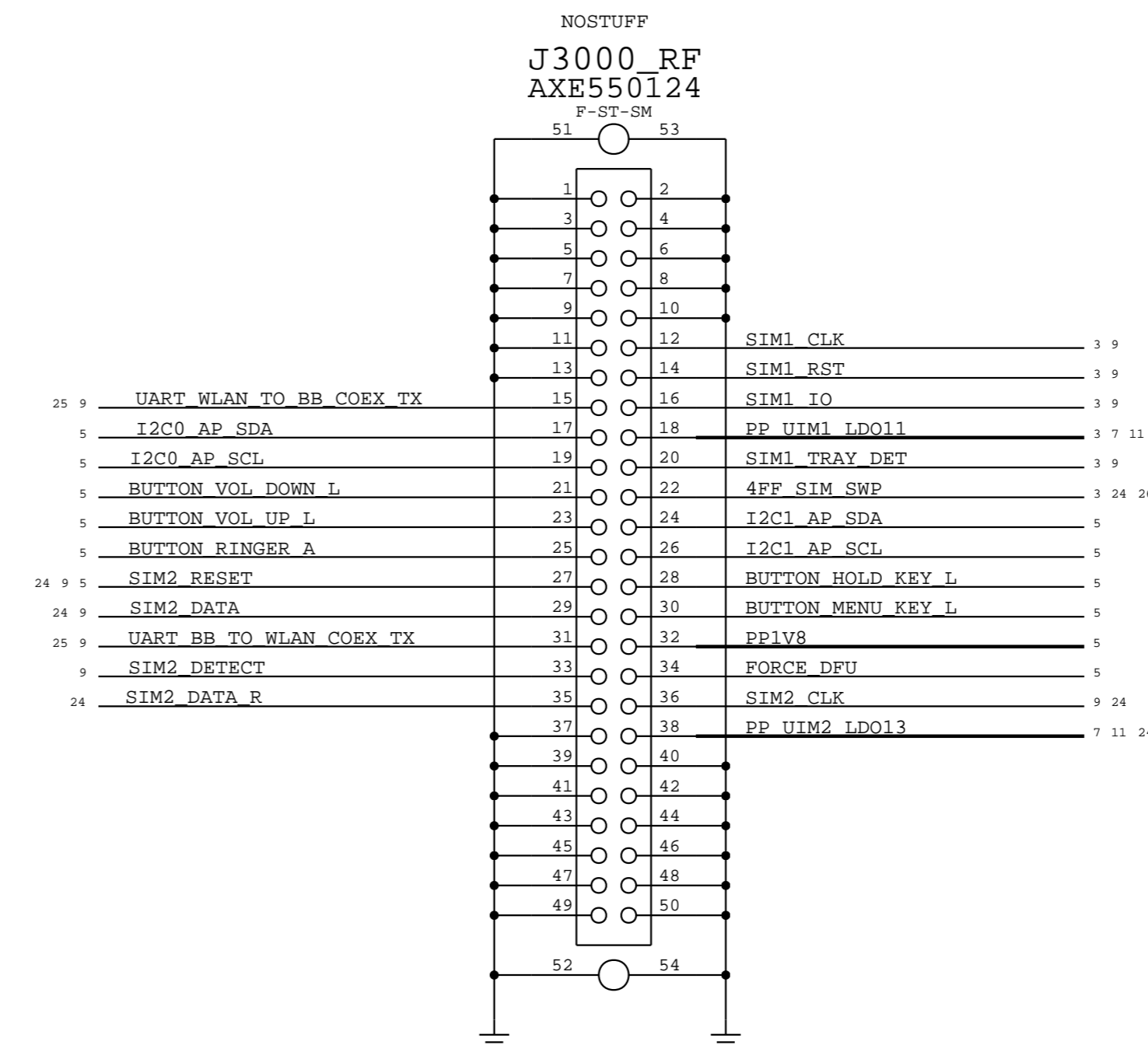
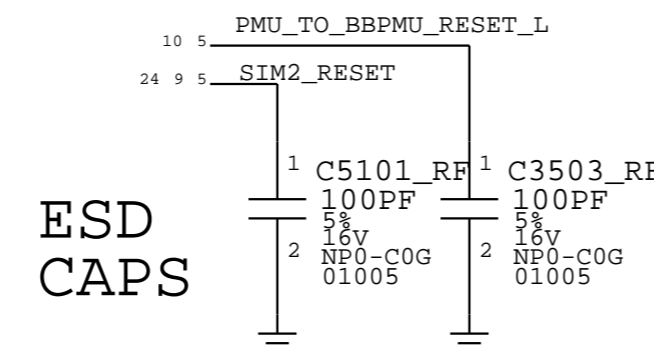
BASEBAND



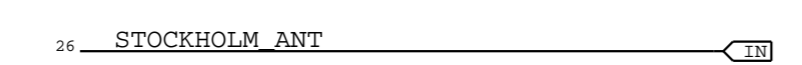
DEBUG CONNECTOR

AP DEBUG

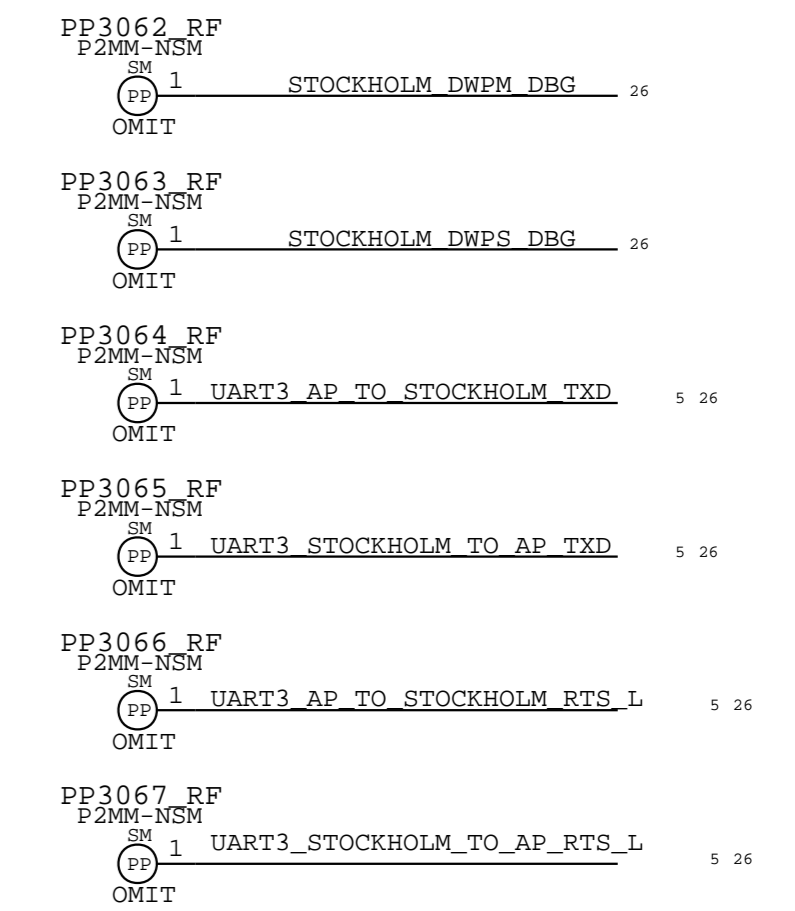
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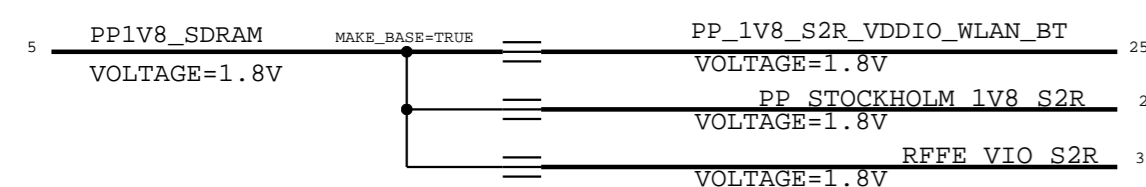
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STOCKHOLM

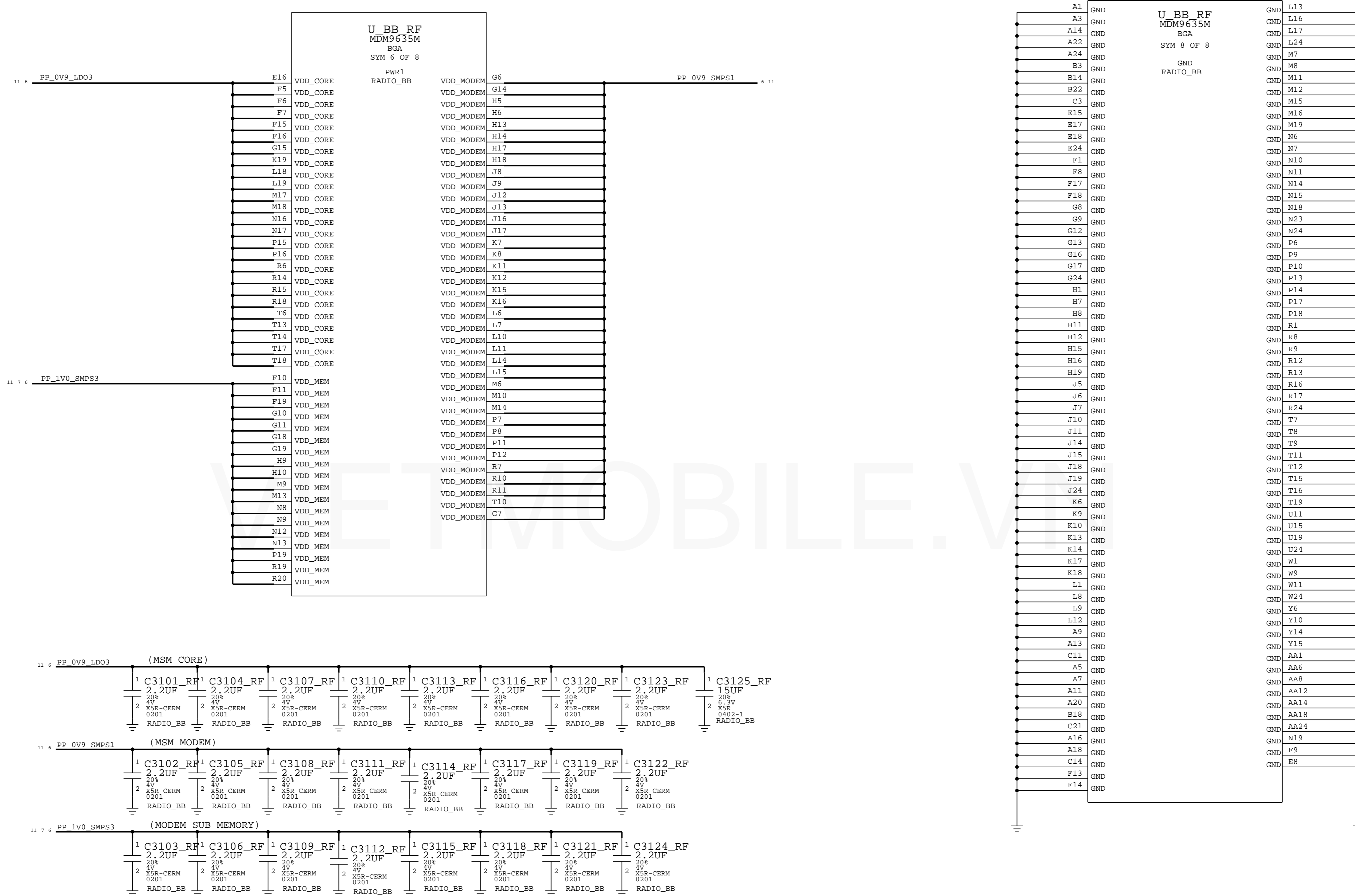


POWER



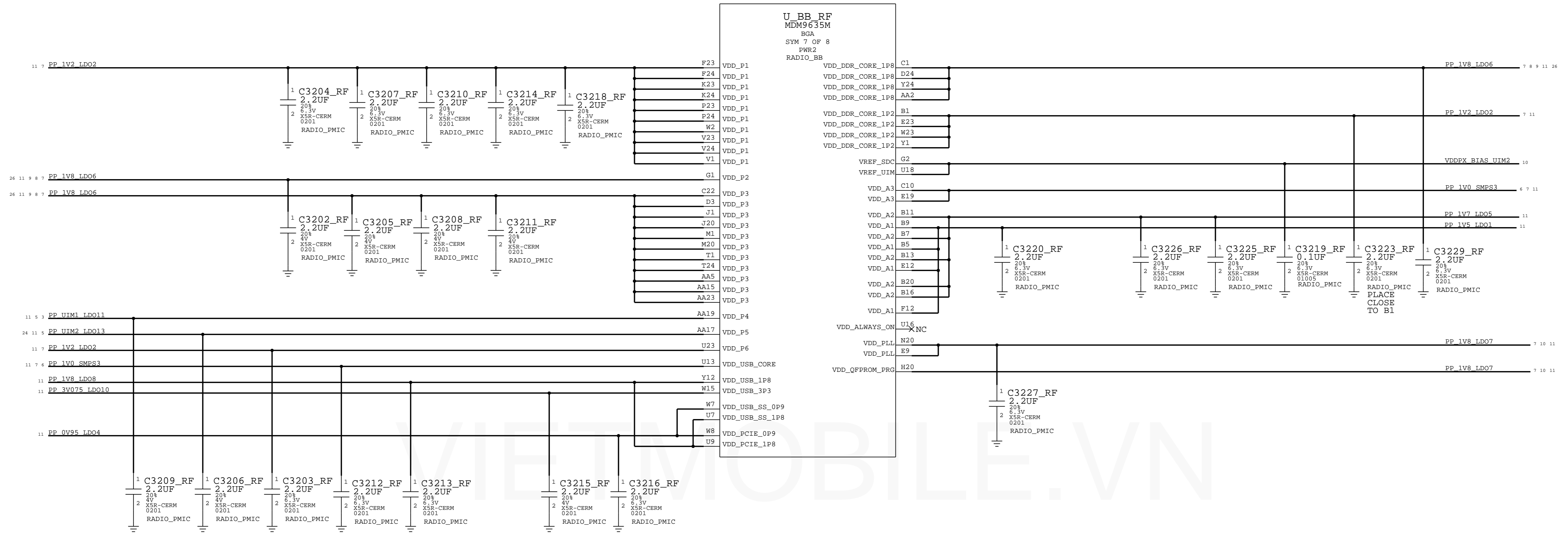
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BASEBAND: POWER 1



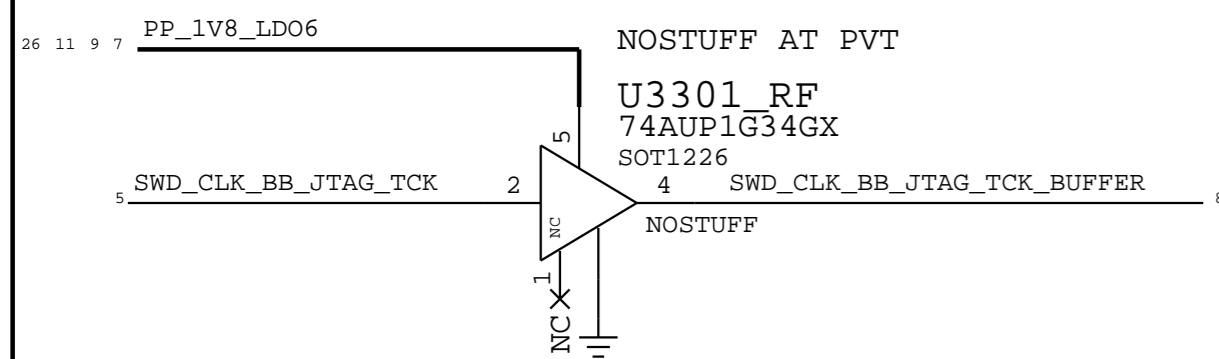
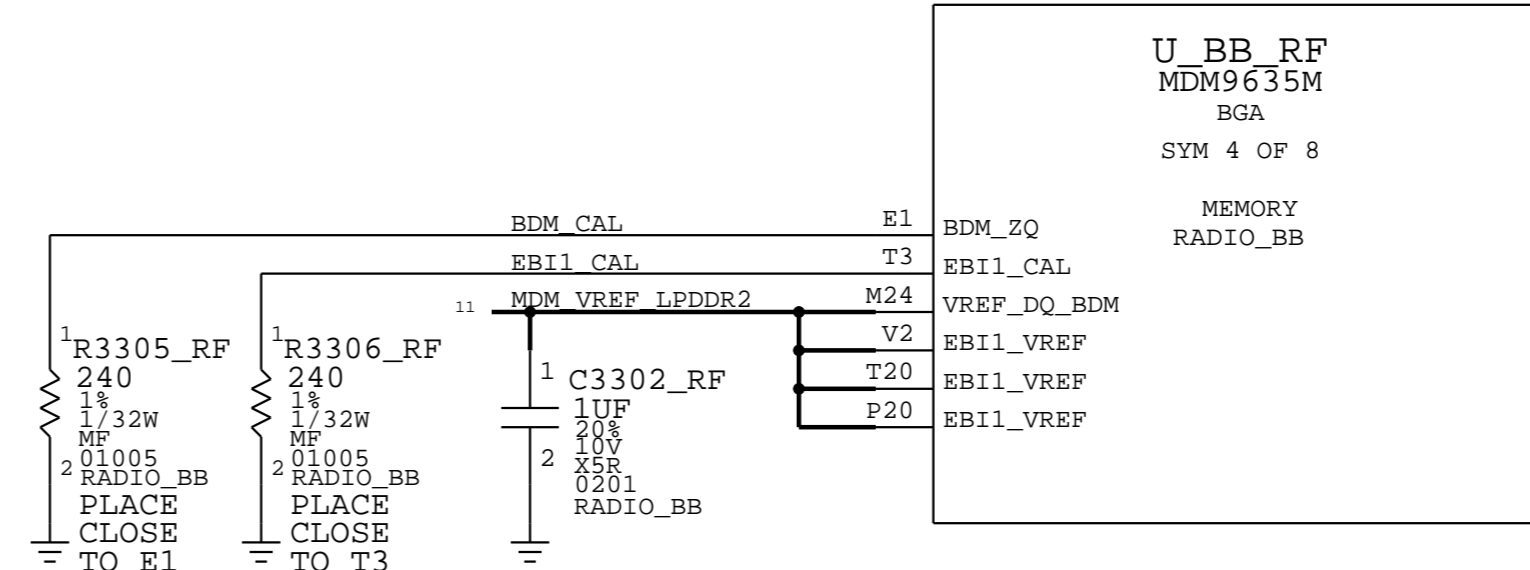
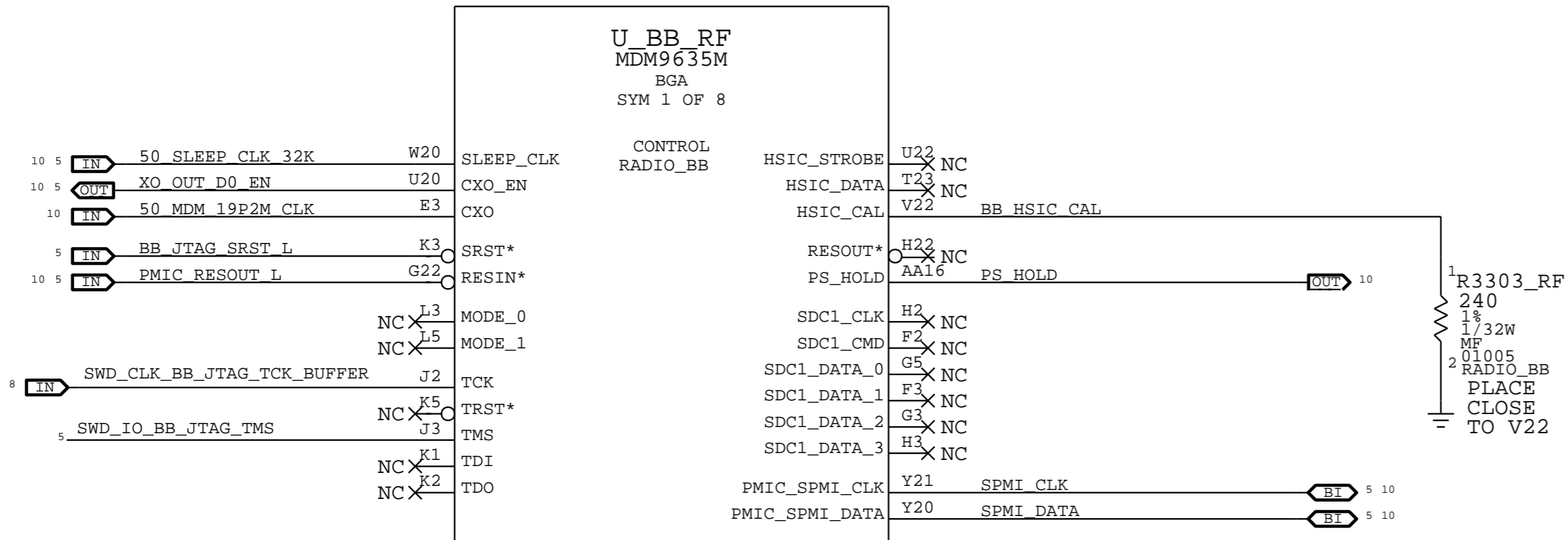
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BASEBAND: POWER 2

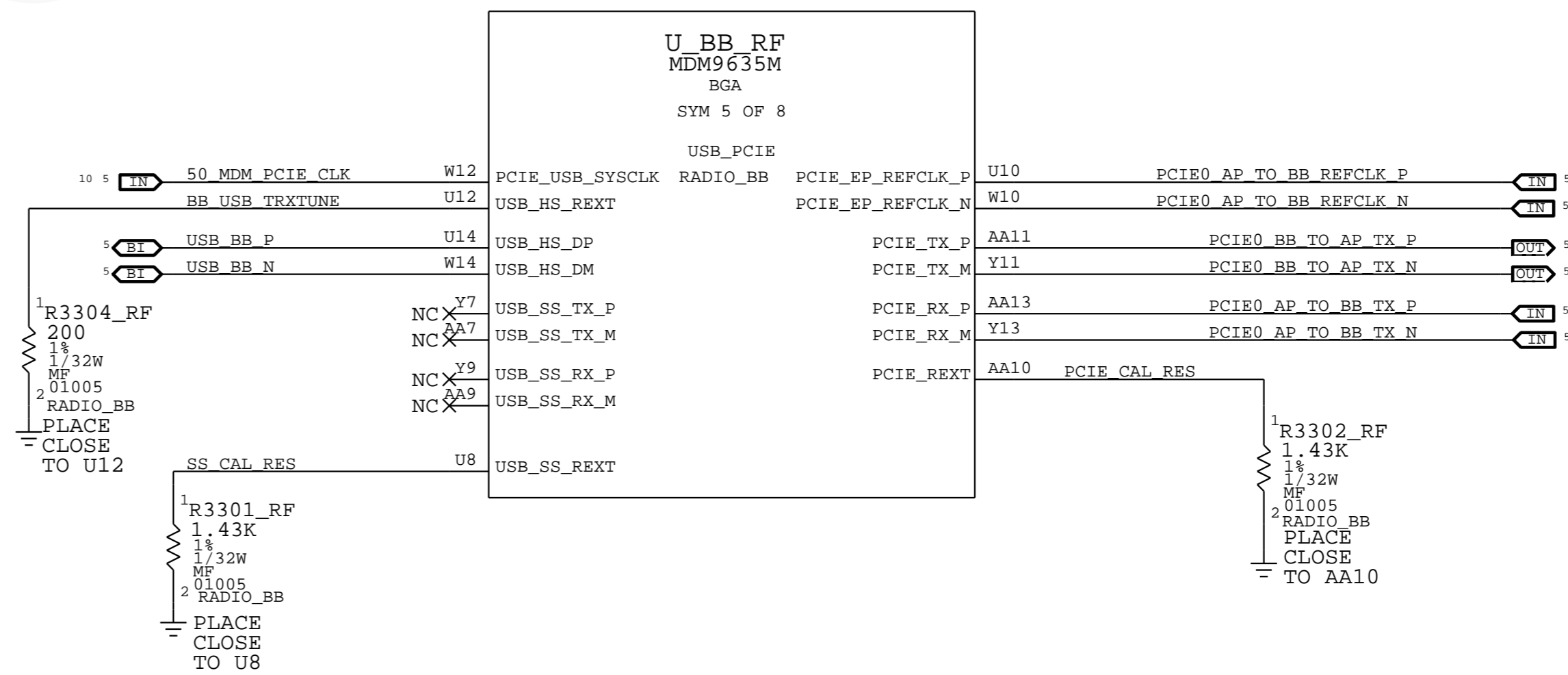
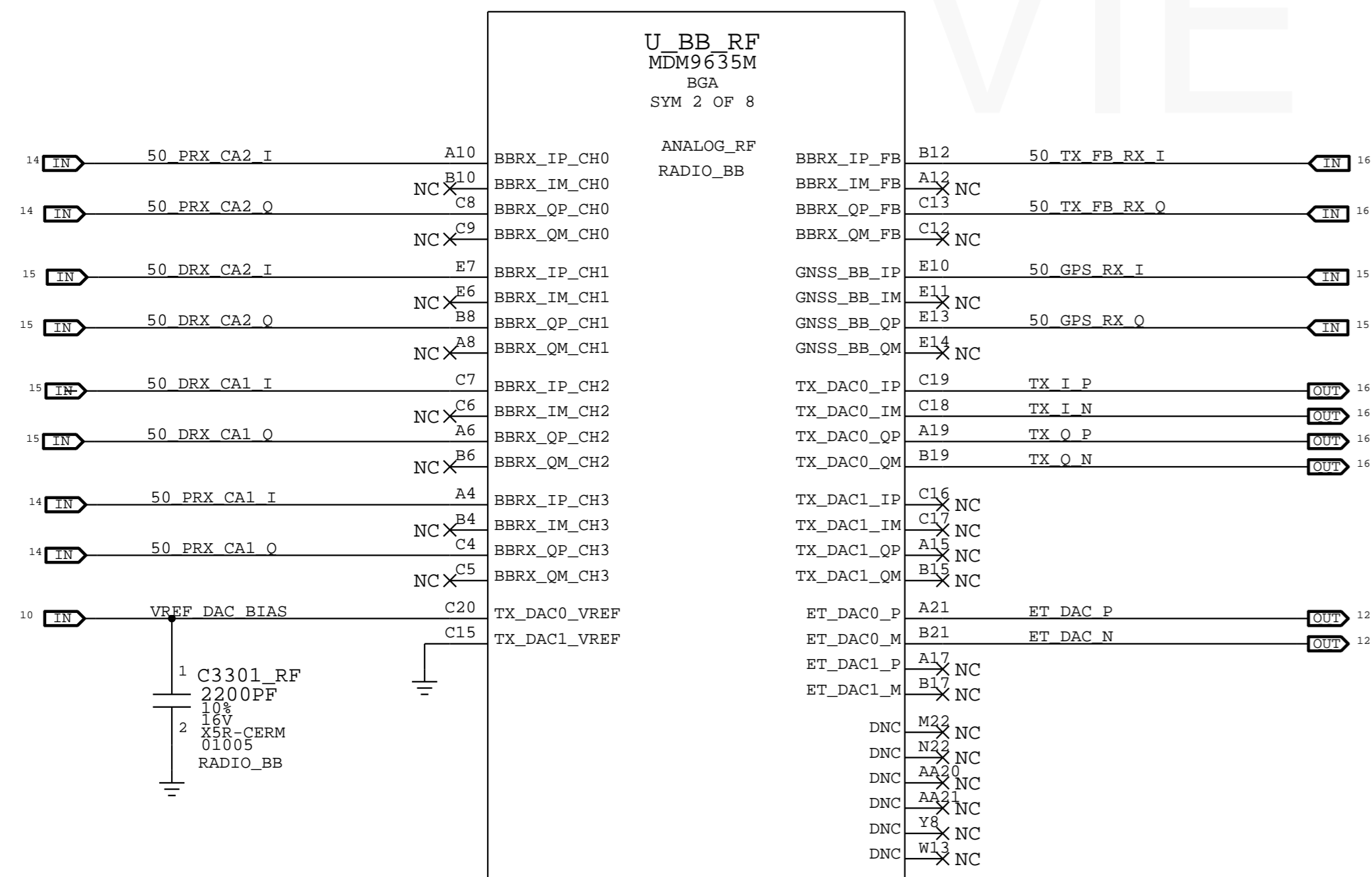


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BASEBAND: CONTROL AND INTERFACES

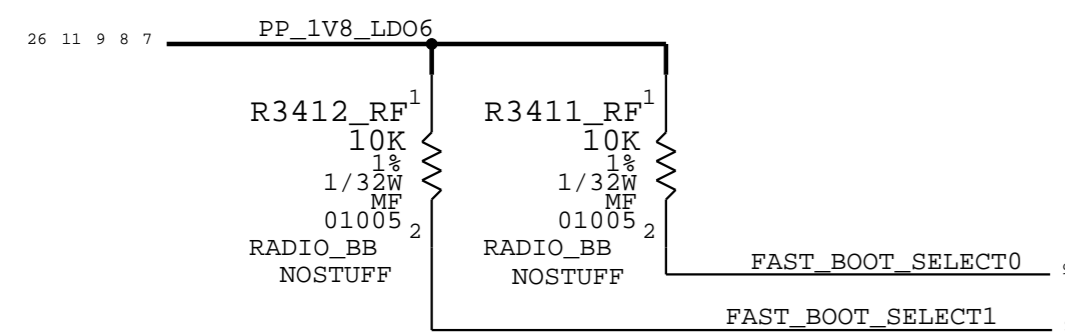
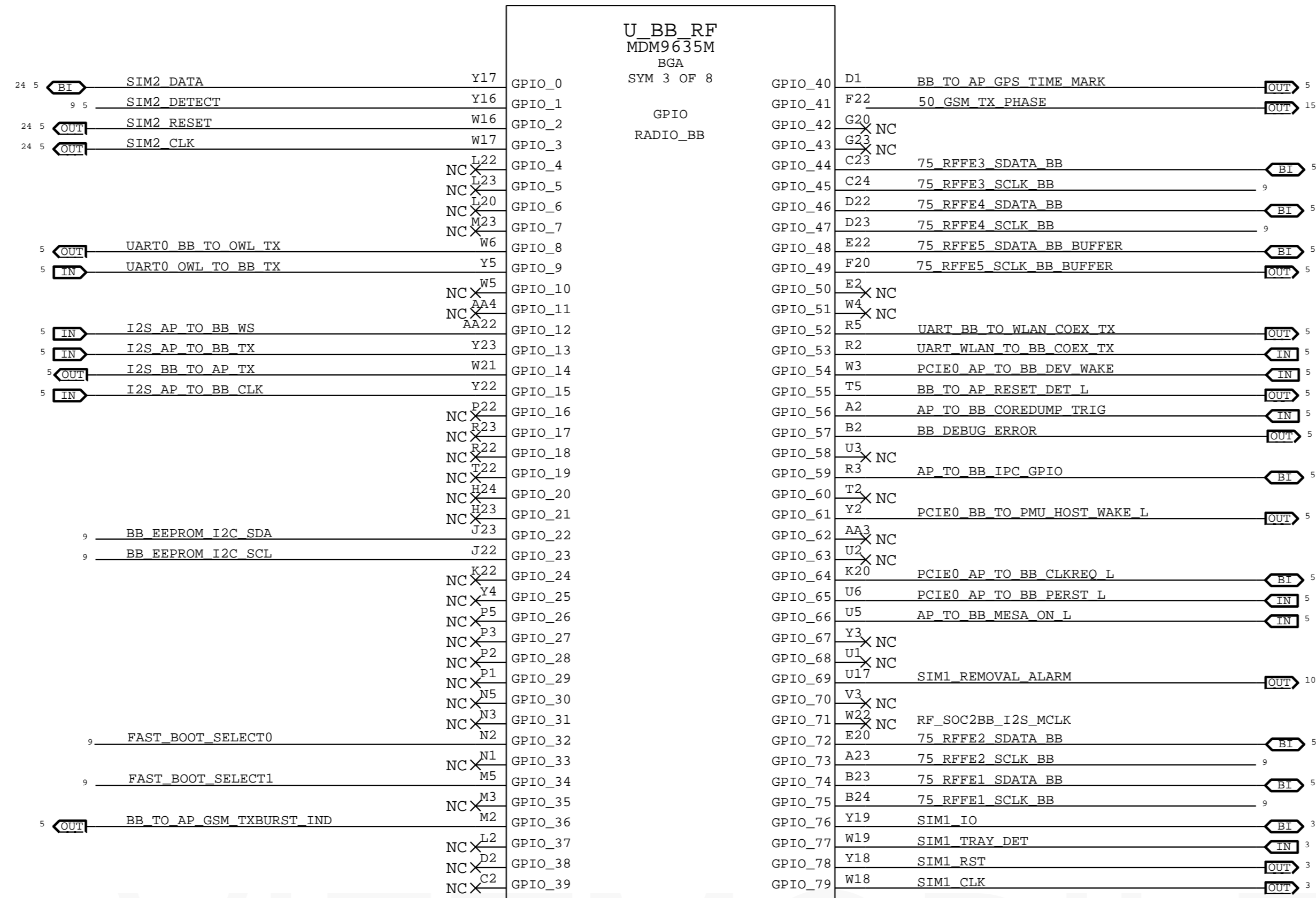


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| DRAWING NUMBER | | 051-1902 | SIZE |
| REVISION | | A.0.0 | D |
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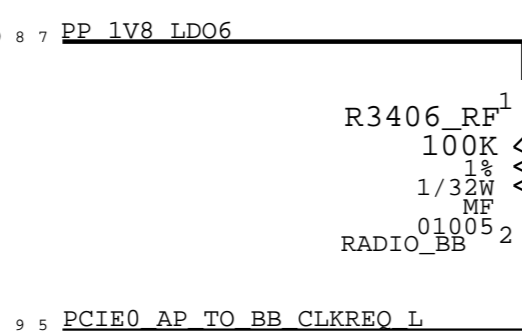
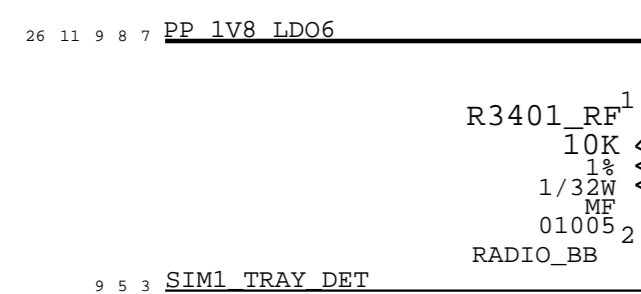
BASEBAND: GPIOs



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

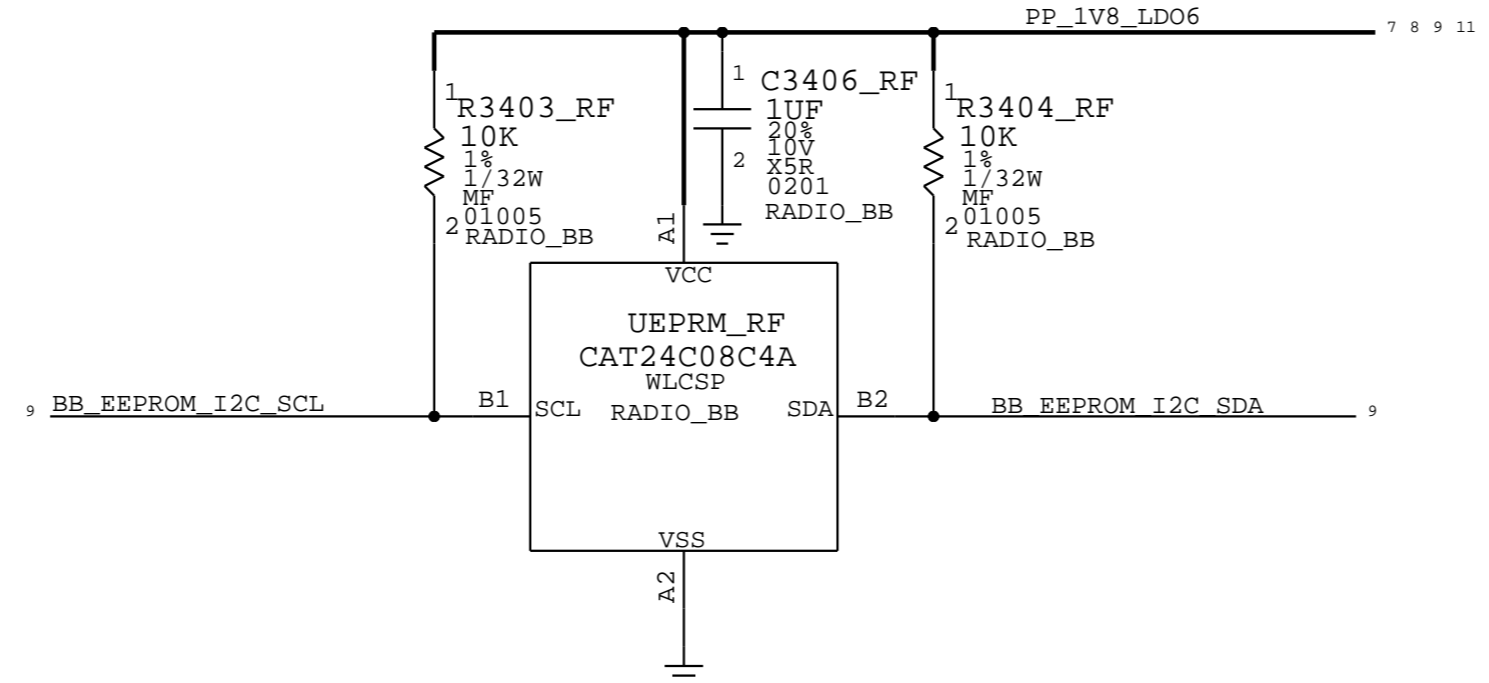
| OPTION | SEL2 | SEL1 | SELO |
|--------|------|------|------|
| GPIO | 35 | 34 | 32 |
| PCIE | 0 | 0 | 1 |
| HSUSB | 0 | 1 | 0 |
| HSIC | 0 | 1 | 1 |

NOSTUFF R3402 WHEN VINYL PRESENT
STUFF R3402 WHEN VINYL NOT PRESENT

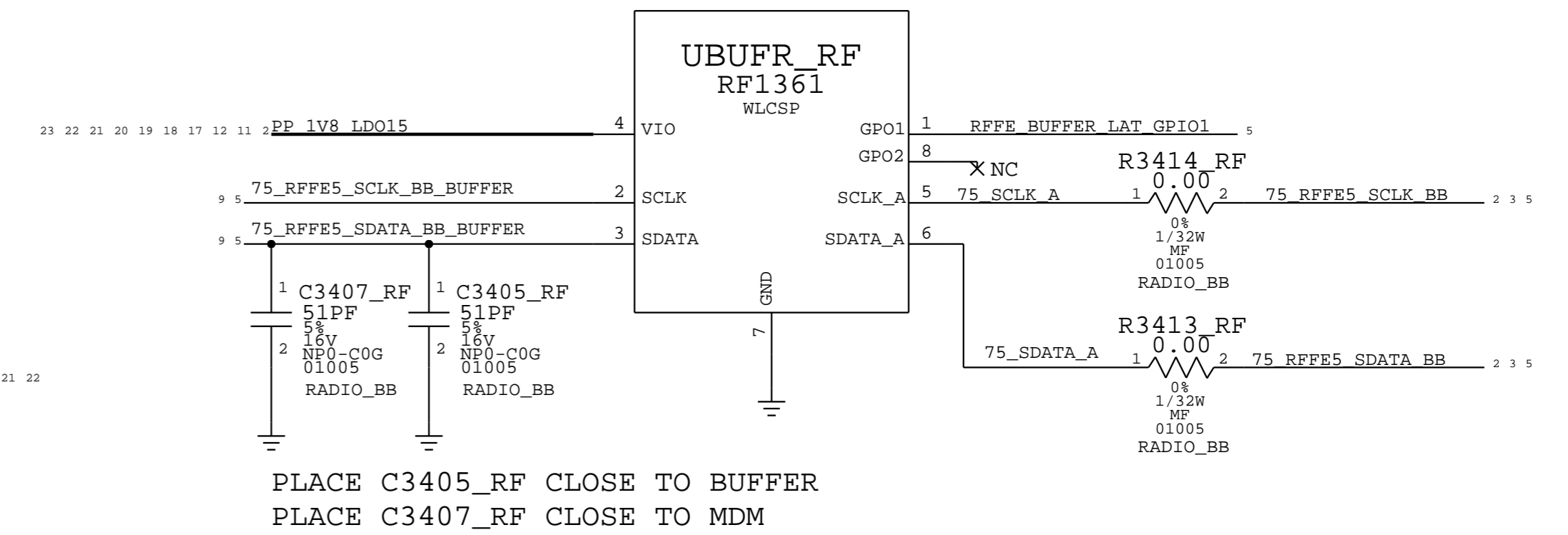


PCIE PULL-UPS TO BB RAIL

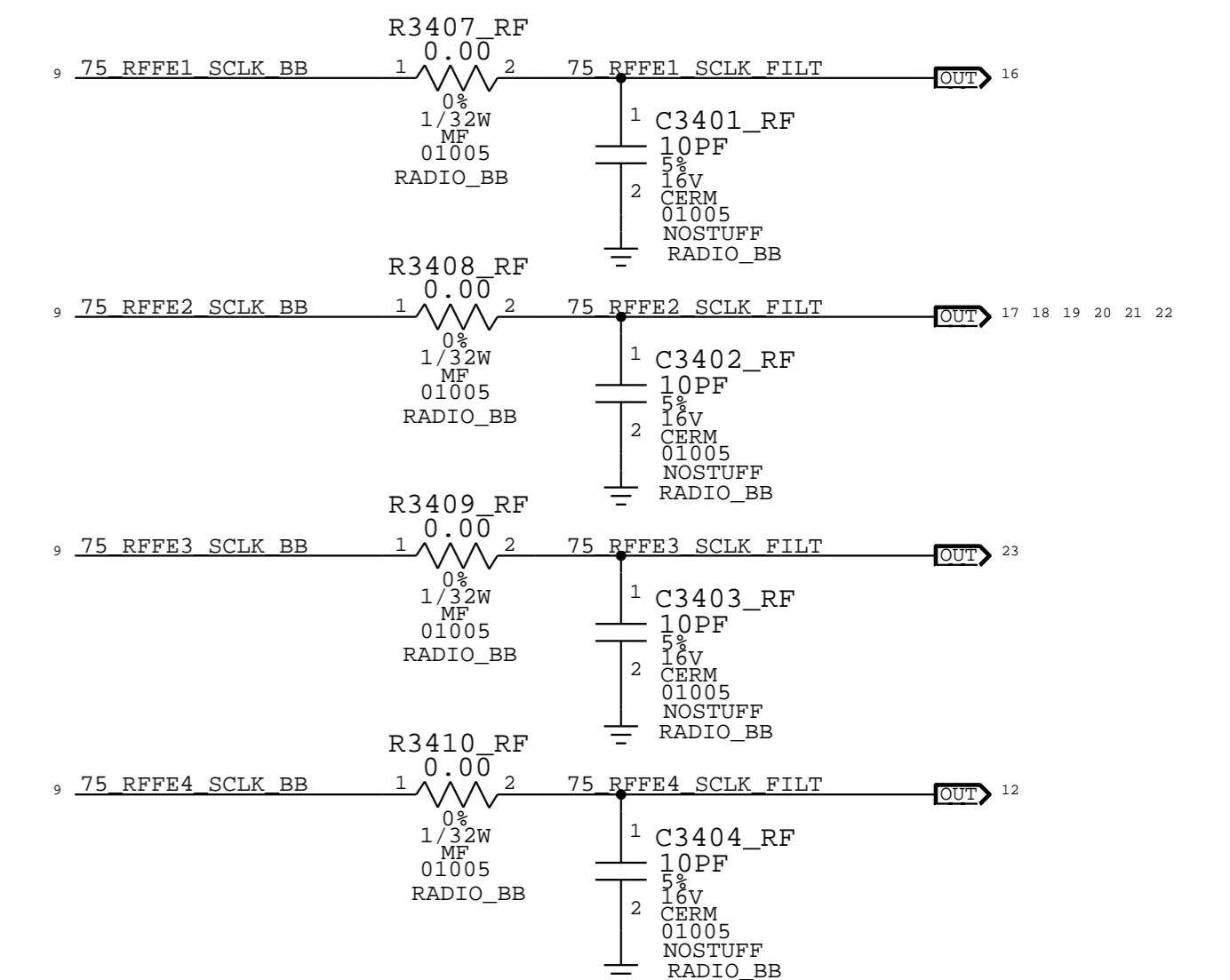
BB EEPROM



BUFFER ON RFFE5
SCLK/SDATA_A IS OUTPUT



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

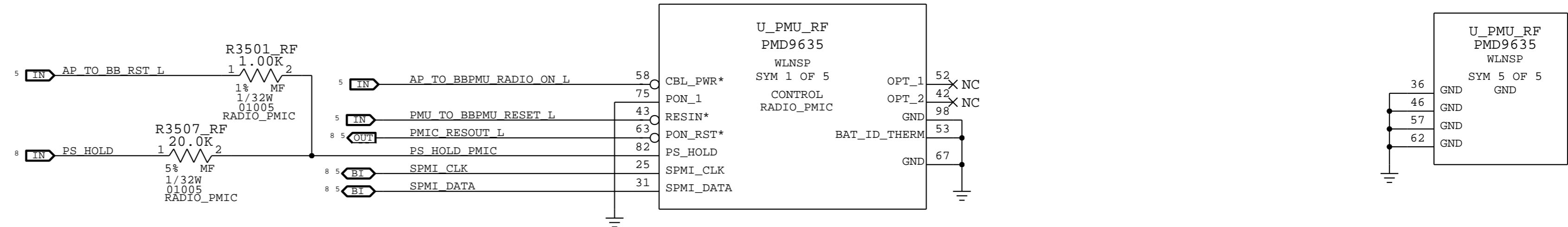
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| CELLULAR BASEBAND: GPIOs | | 051-1902 | D |
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PMU: CONTROL AND CLOCKS

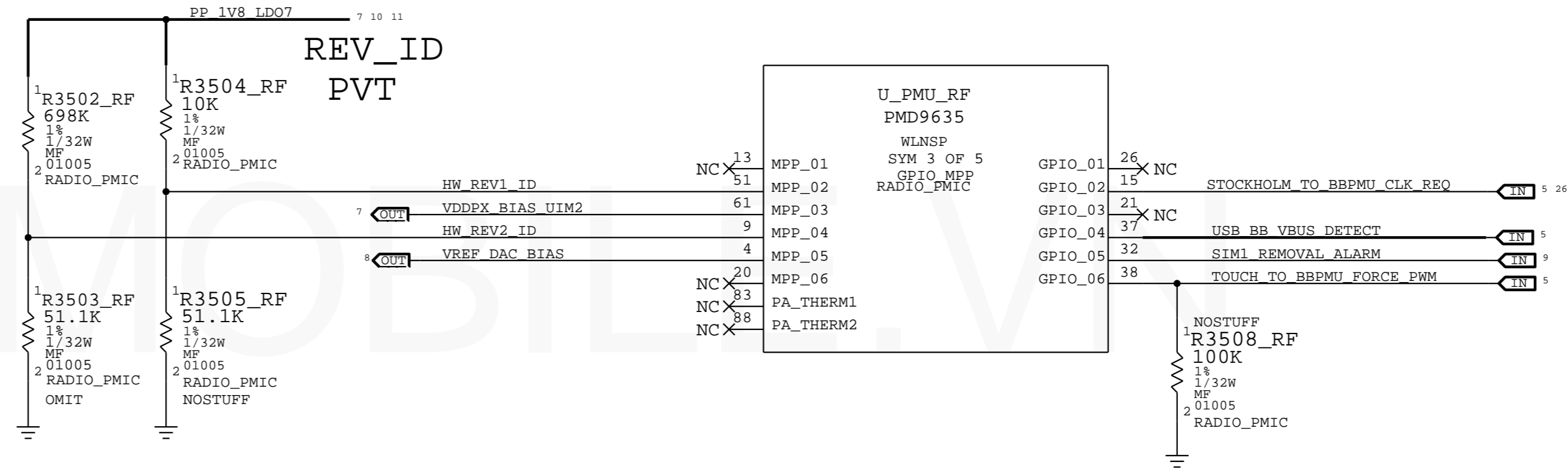
| HW_REV2_ID | R3502 | R3503 | CONFIG |
|------------|-------|-------|----------|
| 1.80V | 698K | - | MLB |
| 0.12V | 698K | 51.1K | SELF GEN |

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

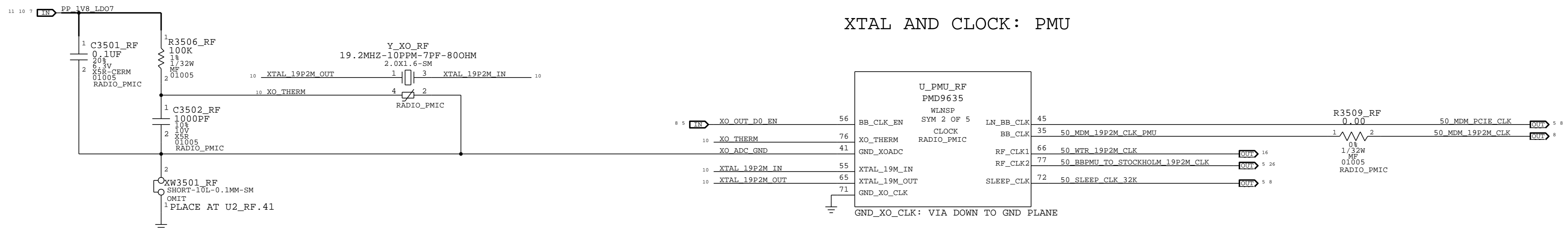
RESET AND CONTROL: PMU



MPPS AND GPIOs: PMU

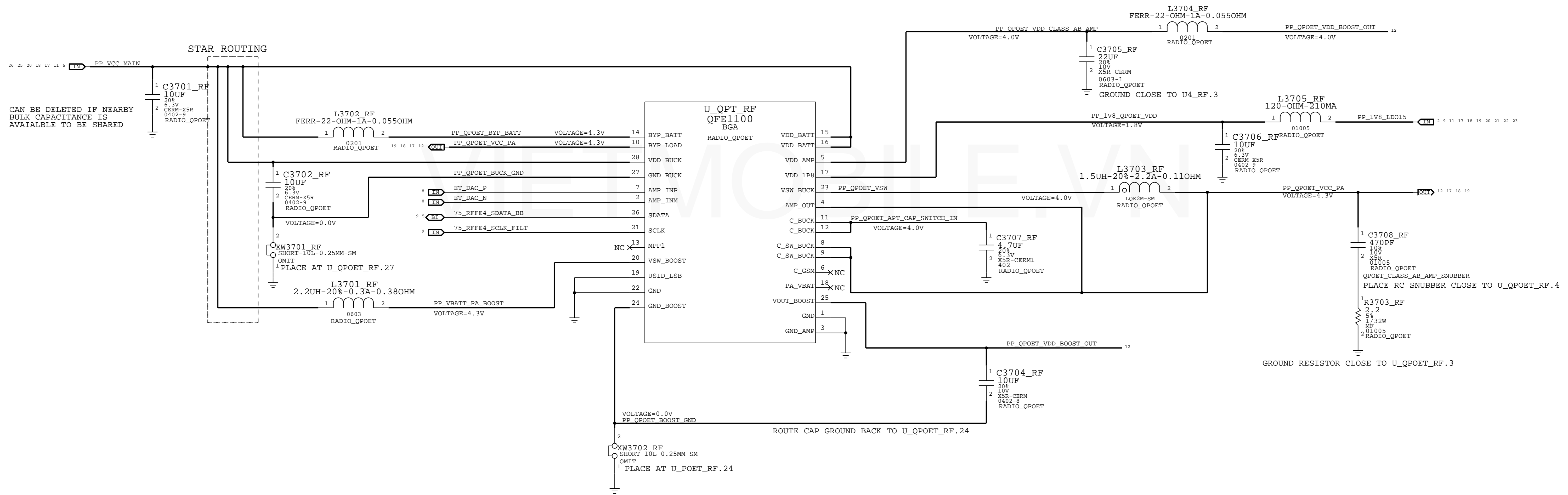


XTAL AND CLOCK: PMU



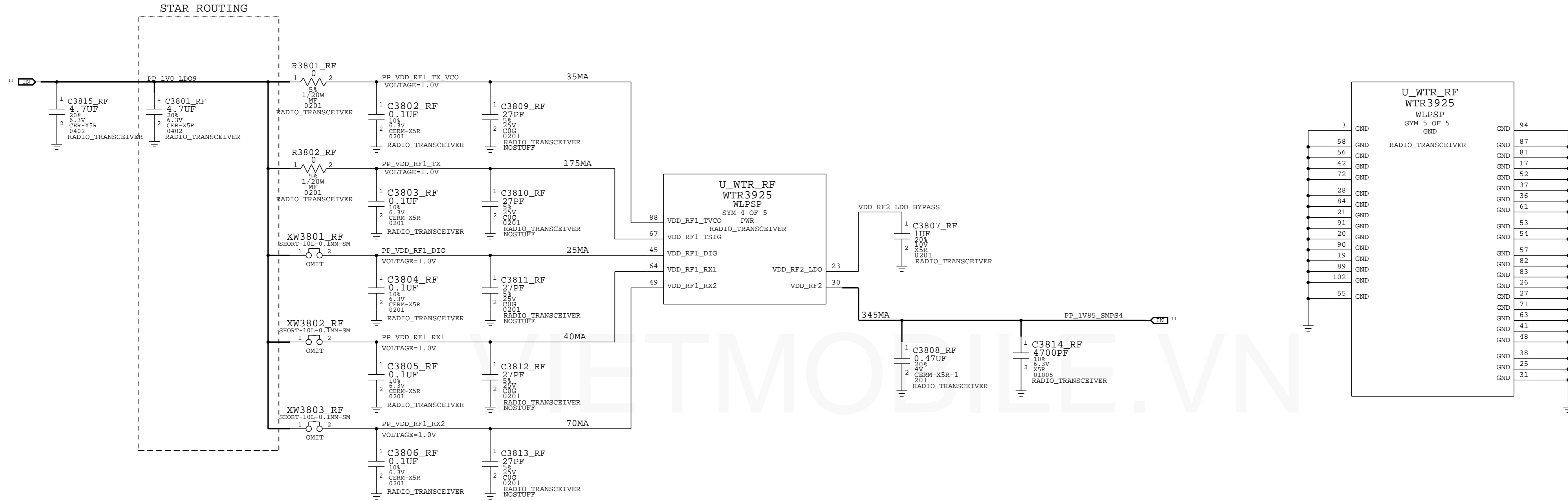
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PMU: ET MODULATOR



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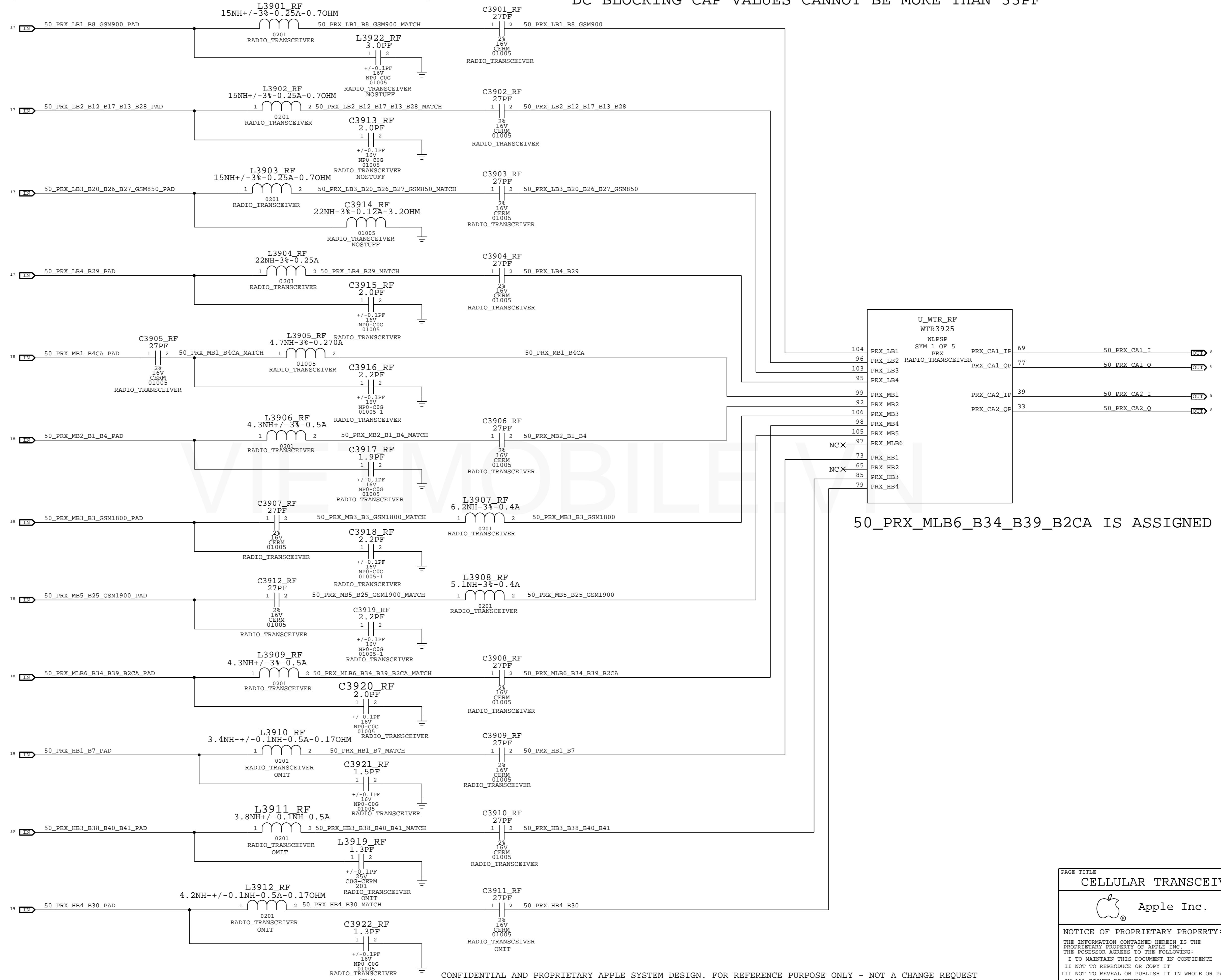
TRANSCEIVER: POWER



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TRANSCEIVER: PRX PORTS

DC BLOCKING CAP VALUES CANNOT BE MORE THAN 33PF

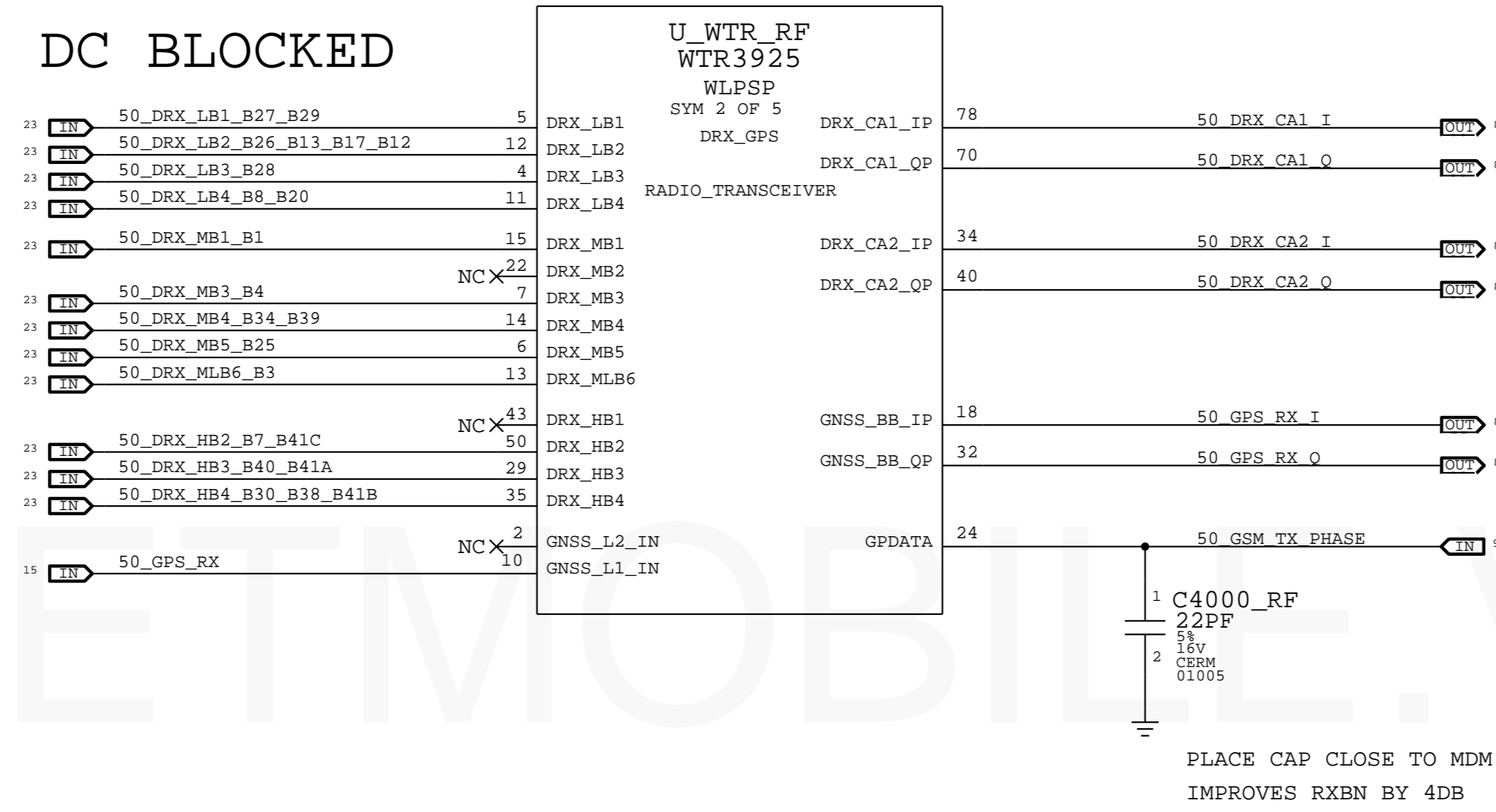


50_PRX_MLB6_B34_B39_B2CA IS ASSIGNED TO MB4

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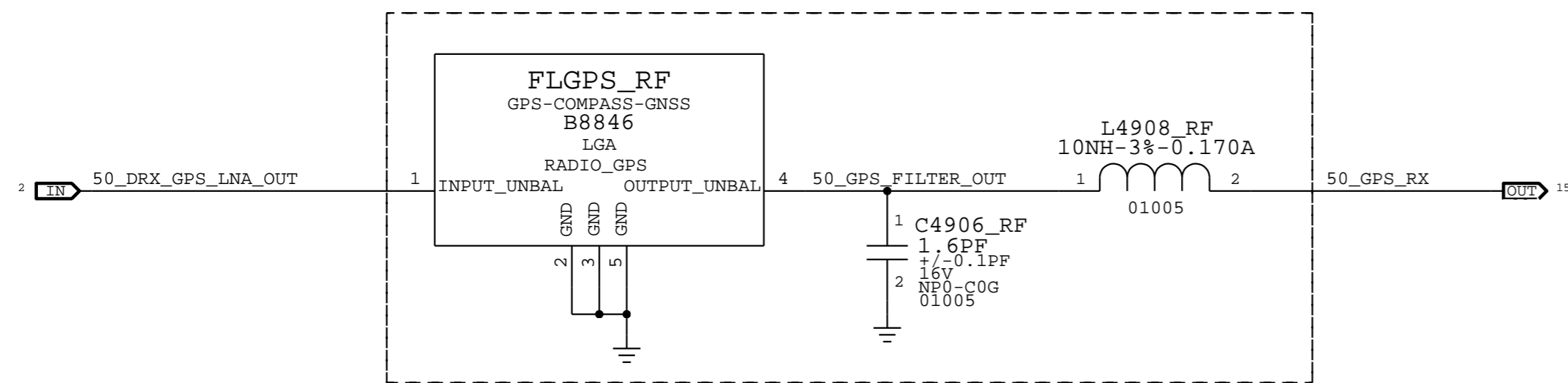
TRANSCEIVER: DRX/GPS PORTS

DRX MODULE PORTS ARE DC BLOCKED



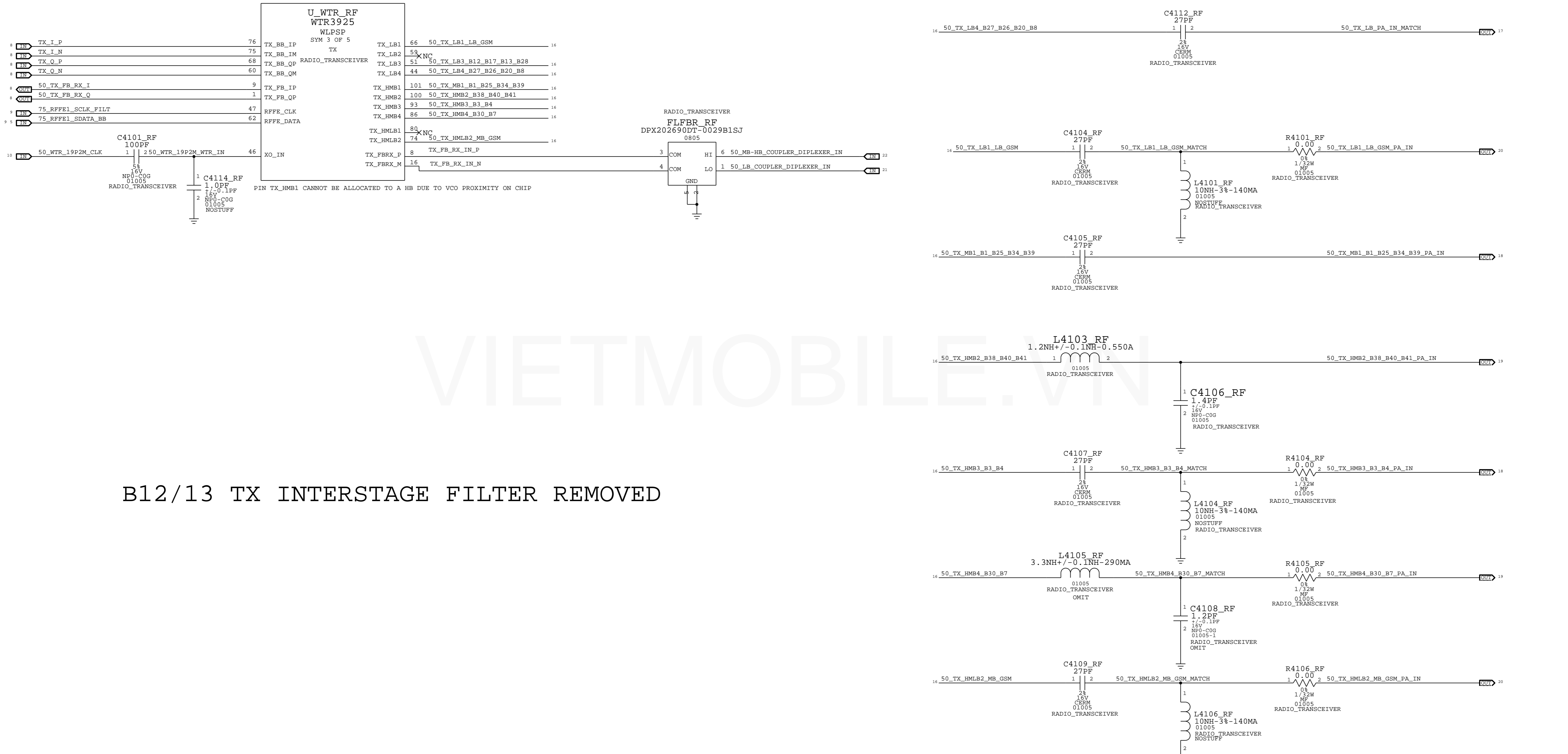
GPS FILTER

PLACE NEAR U_WTR



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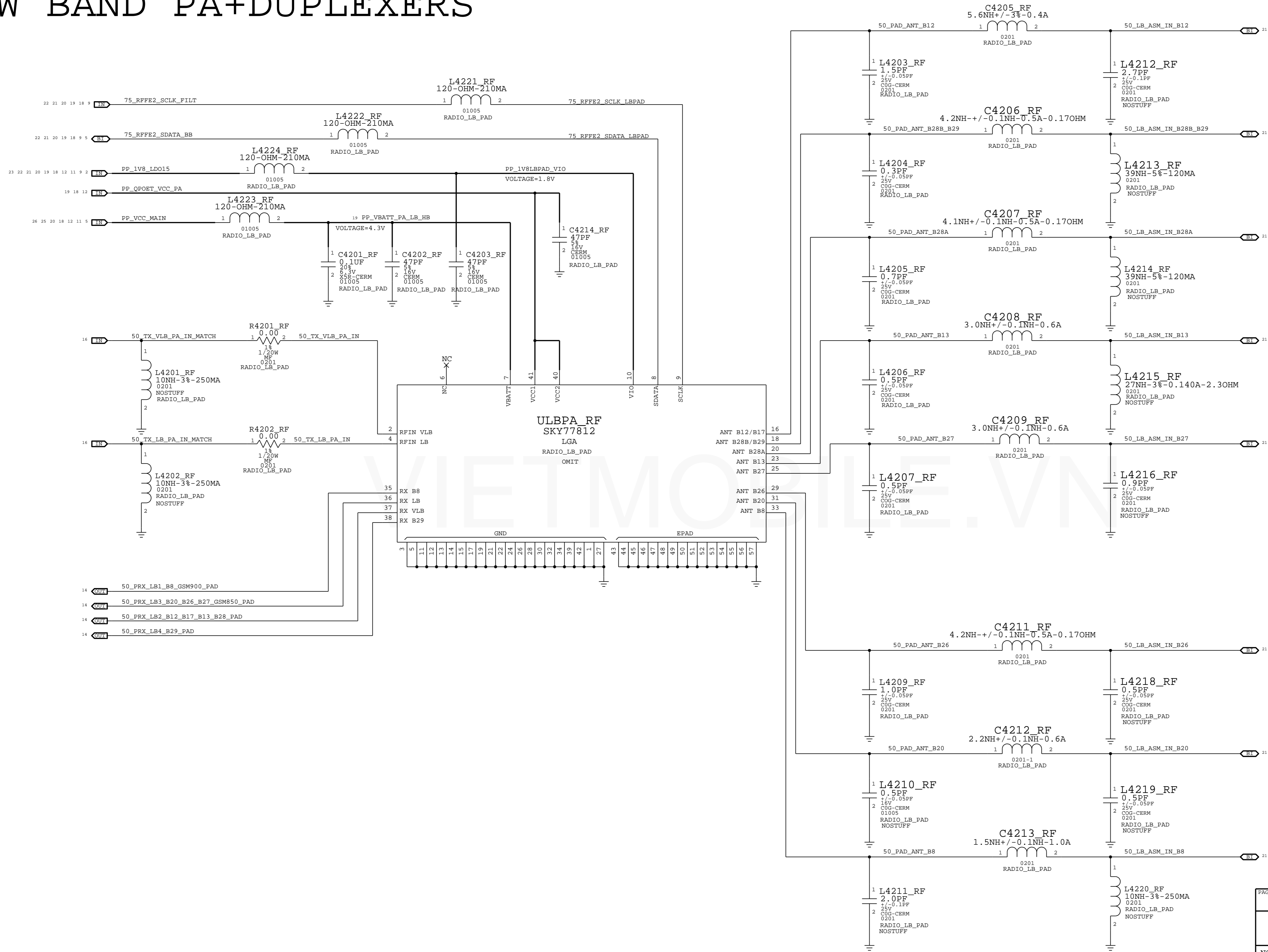
TRANSCEIVER: TX PORTS



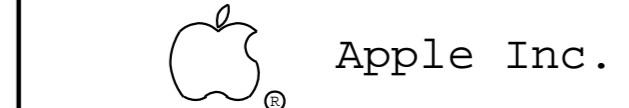
B12/13 TX INTERSTAGE FILTER REMOVED

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LOW BAND PA+DUPLEXERS

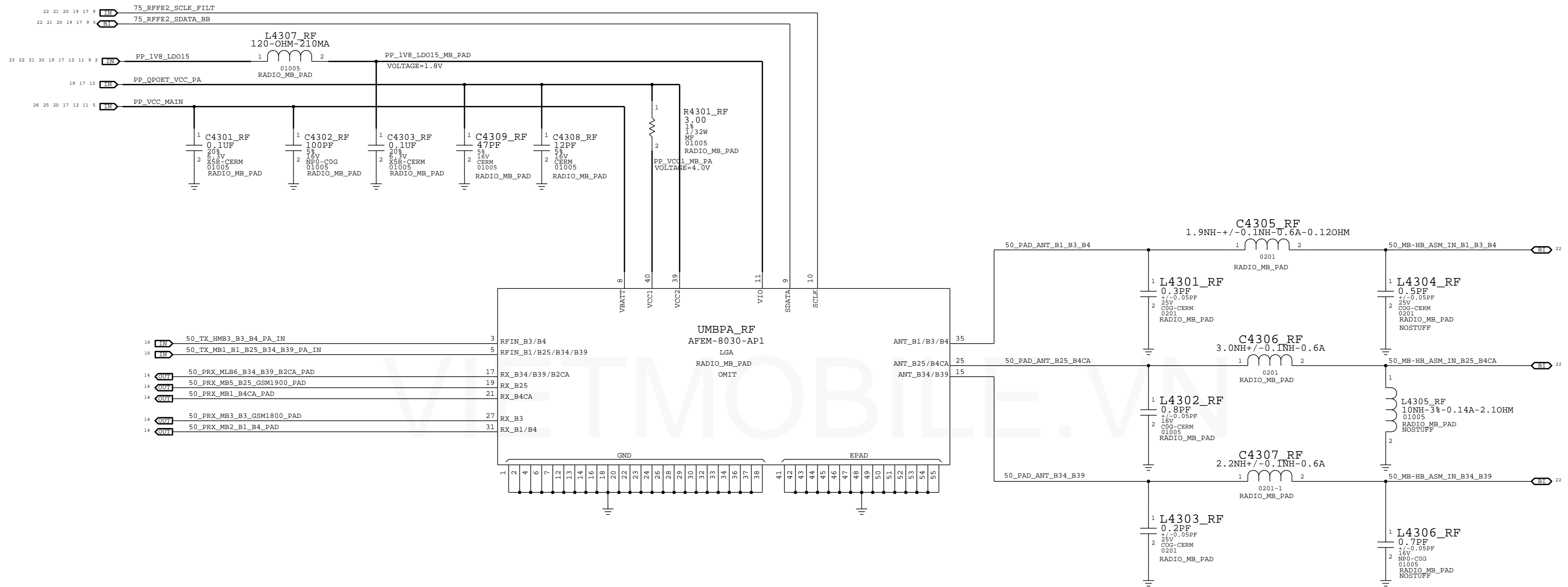


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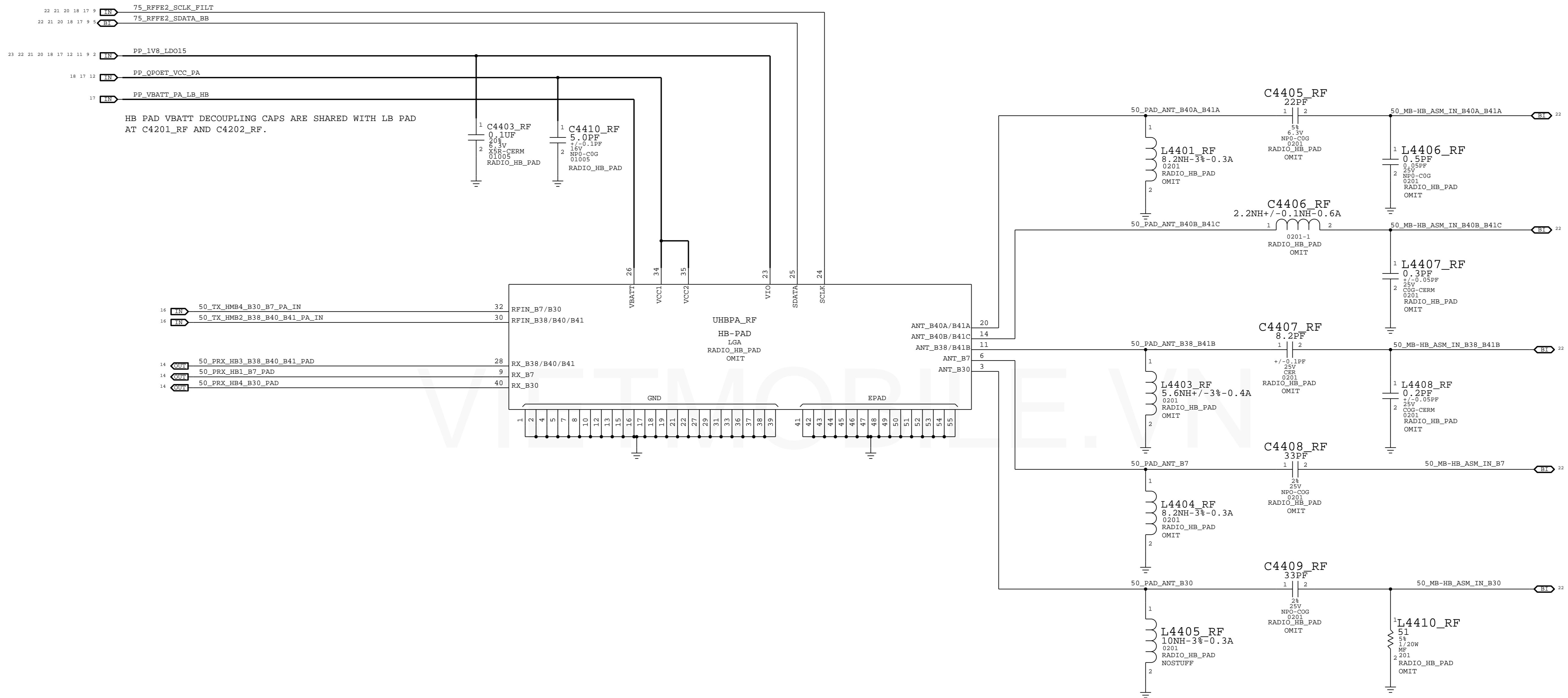
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MID BAND PA+DUPLEXERS



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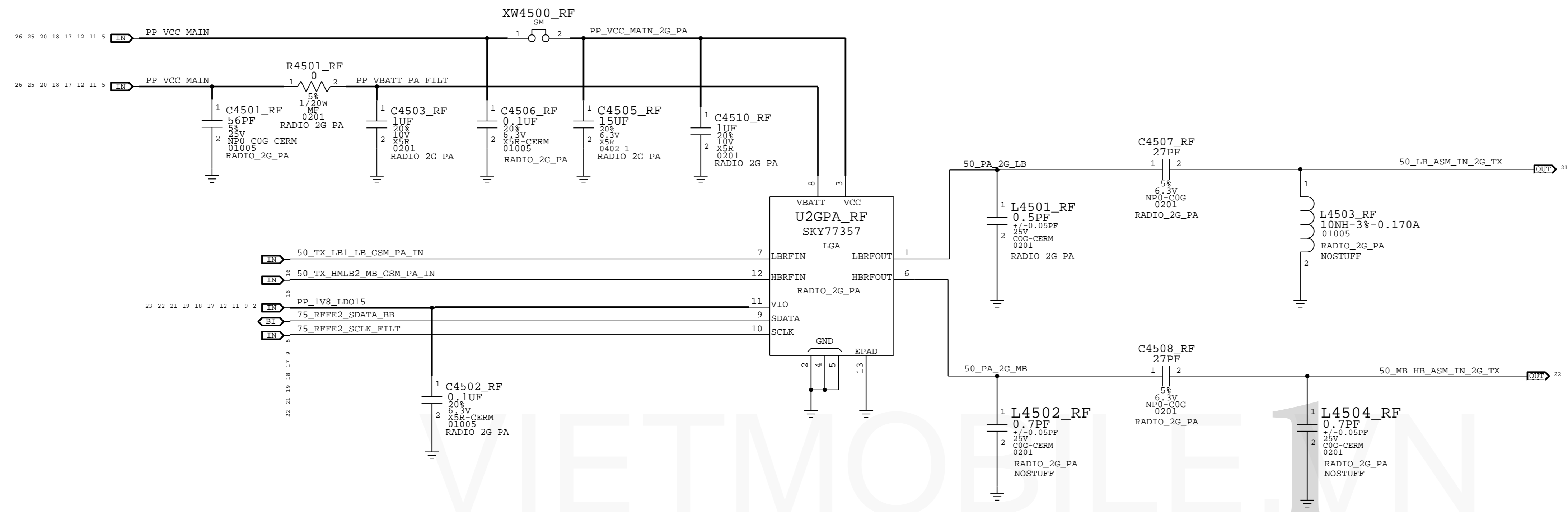
HIGH BAND PA+DUPLEXERS



WIPHONE

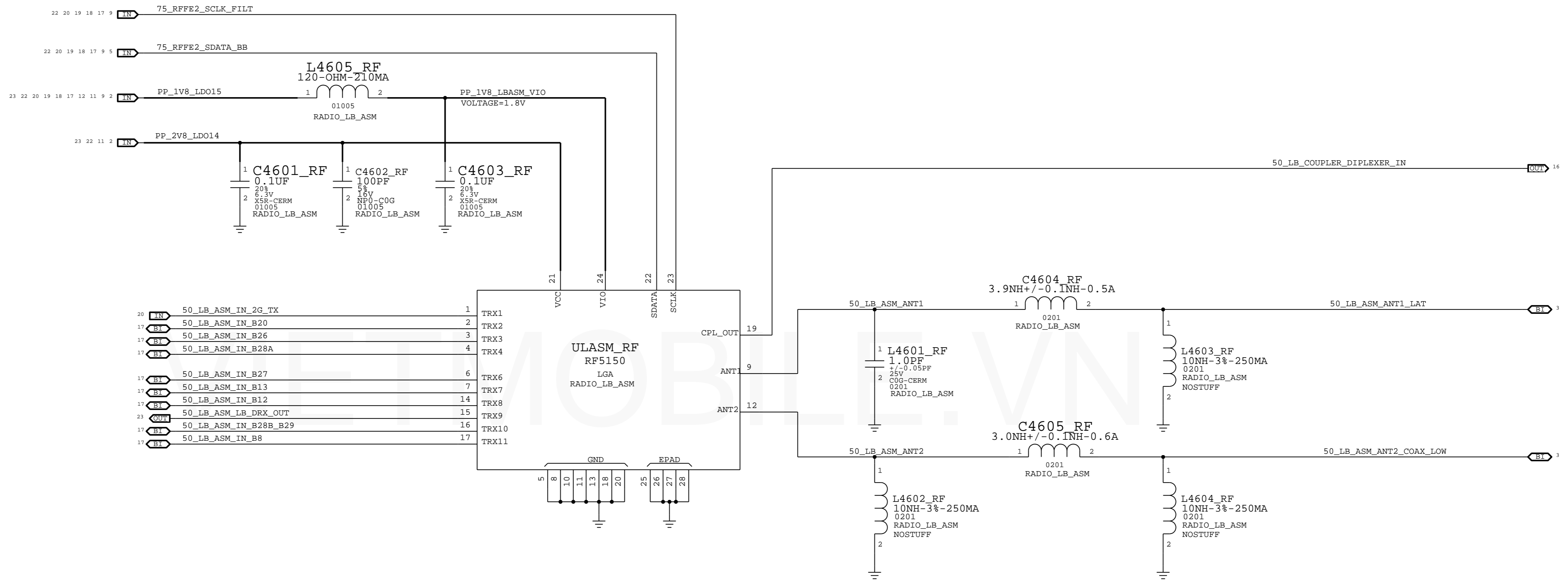
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2G PA



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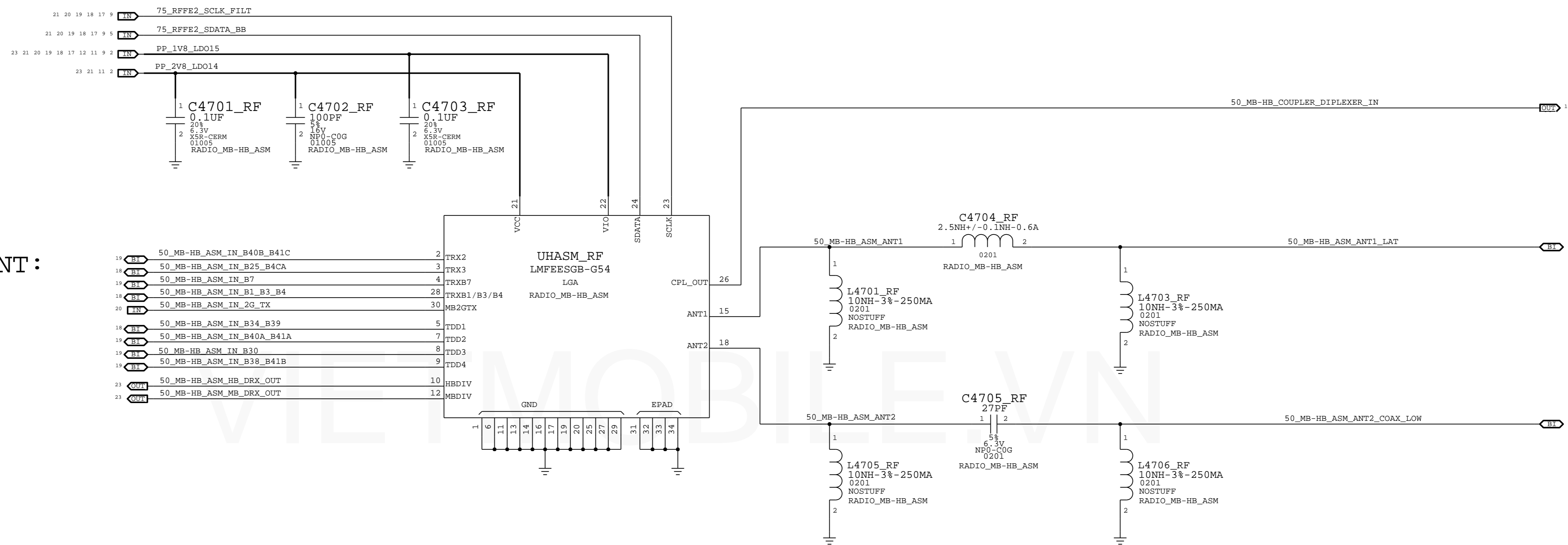
LOW BAND ANTENNA SWITCH MODULE



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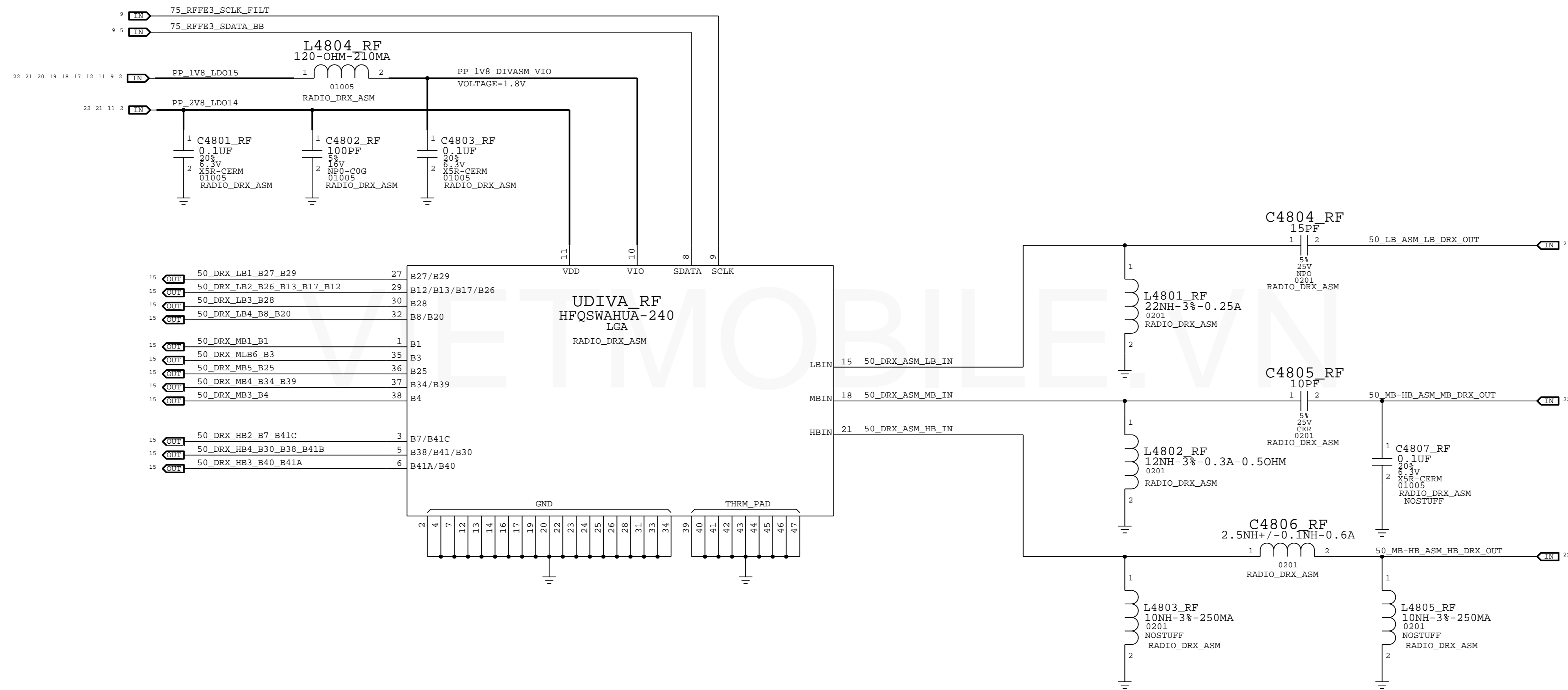
MID-HIGH BAND ANTENNA SWITCH MODULE

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



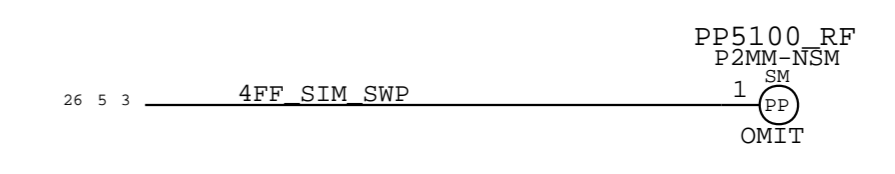
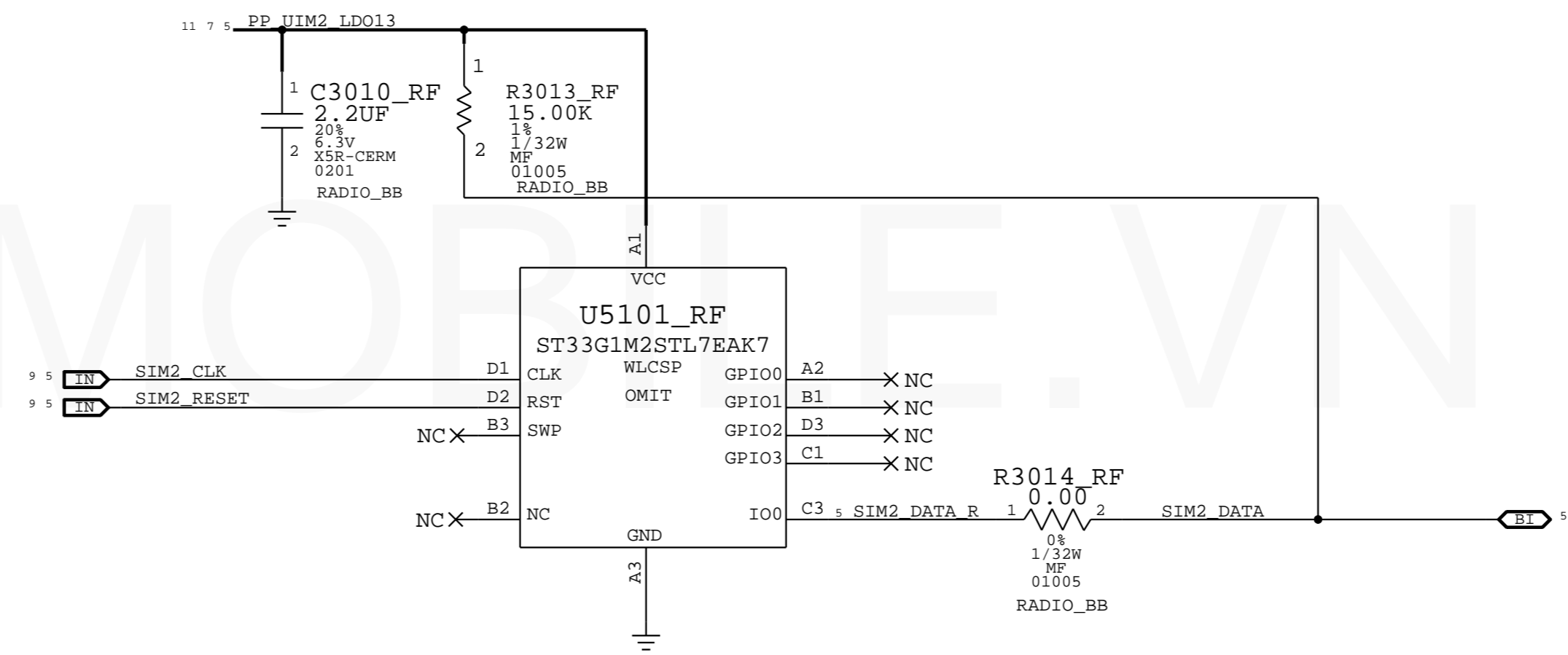
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DIVERSITY MODULE



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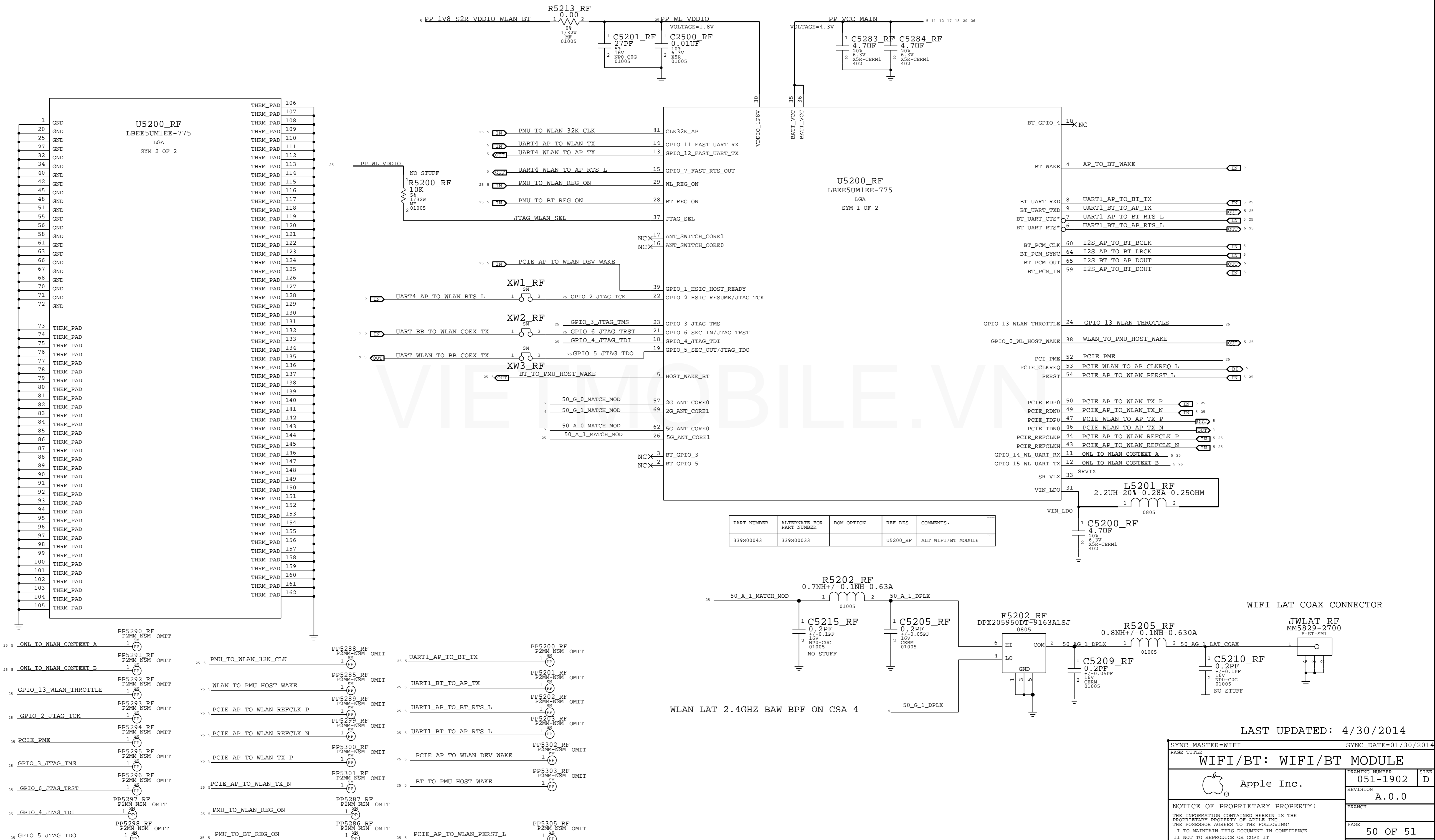
SIM



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WIFI / BT



SYNC_MASTER=WIFI SYNC_DATE=01/30/2014

WIFI/BT: WIFI/BT MODULE

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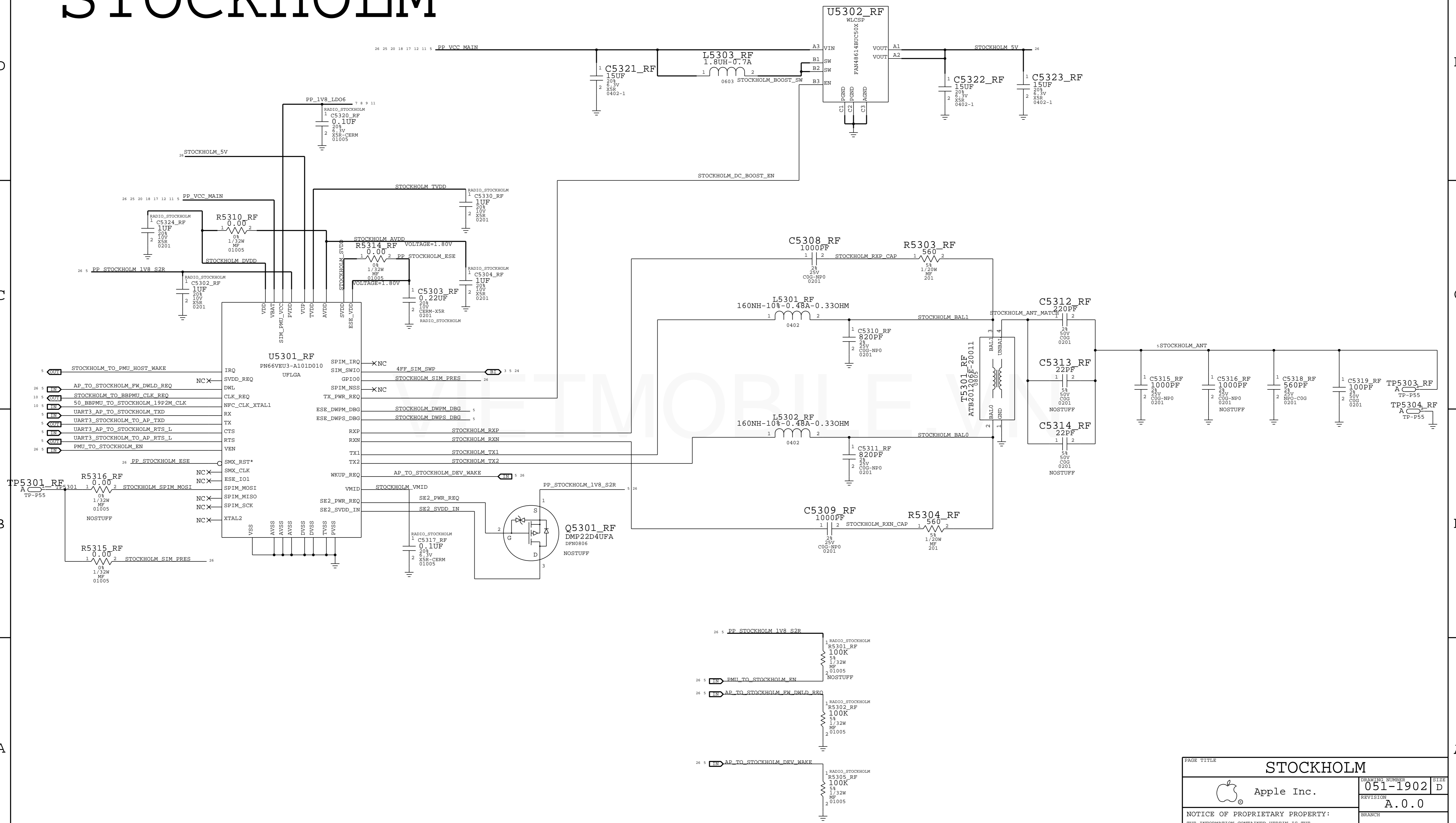
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STOCKHOLM

ALL NETNAMES NEED TO BE CHECKED

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