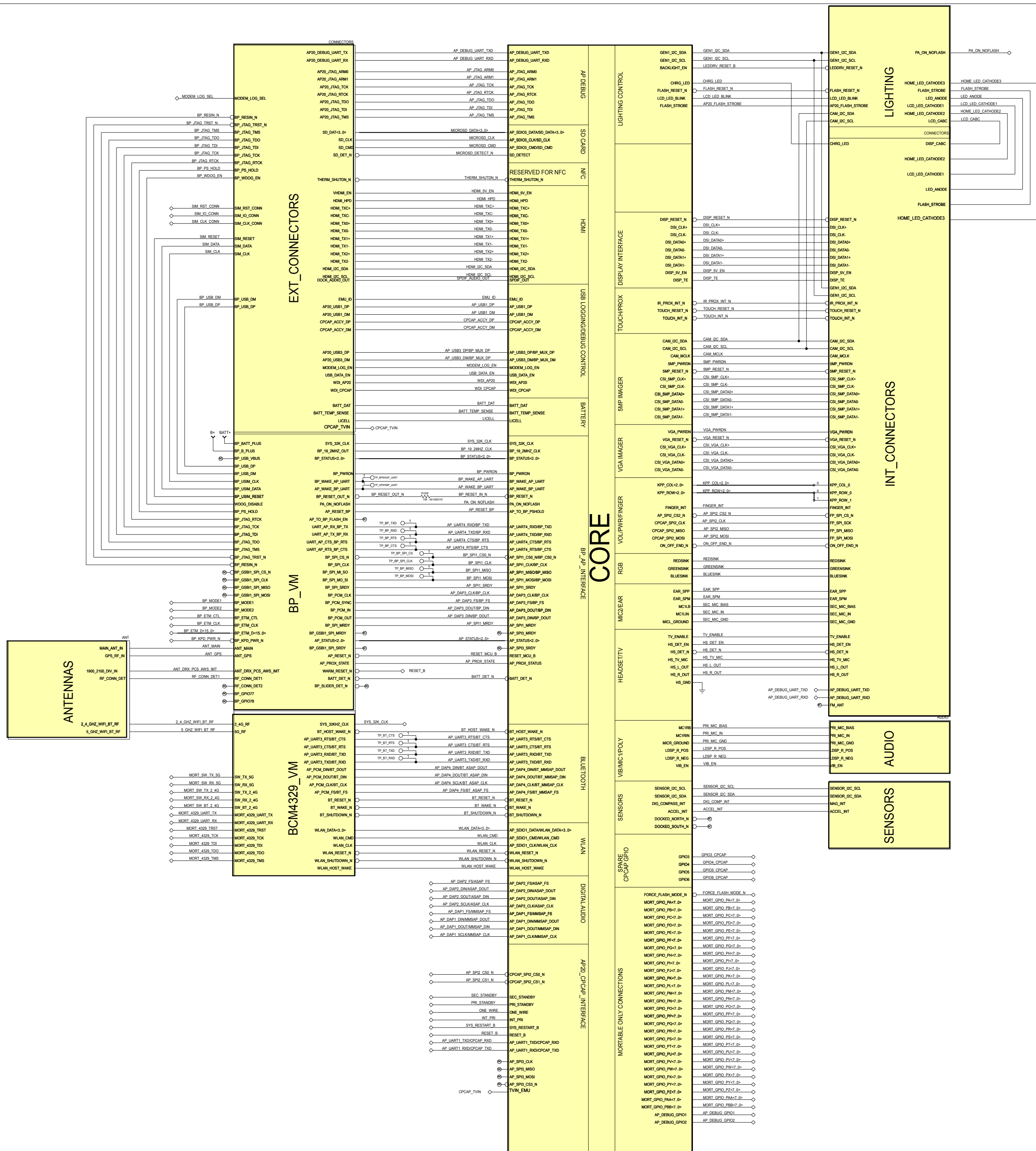
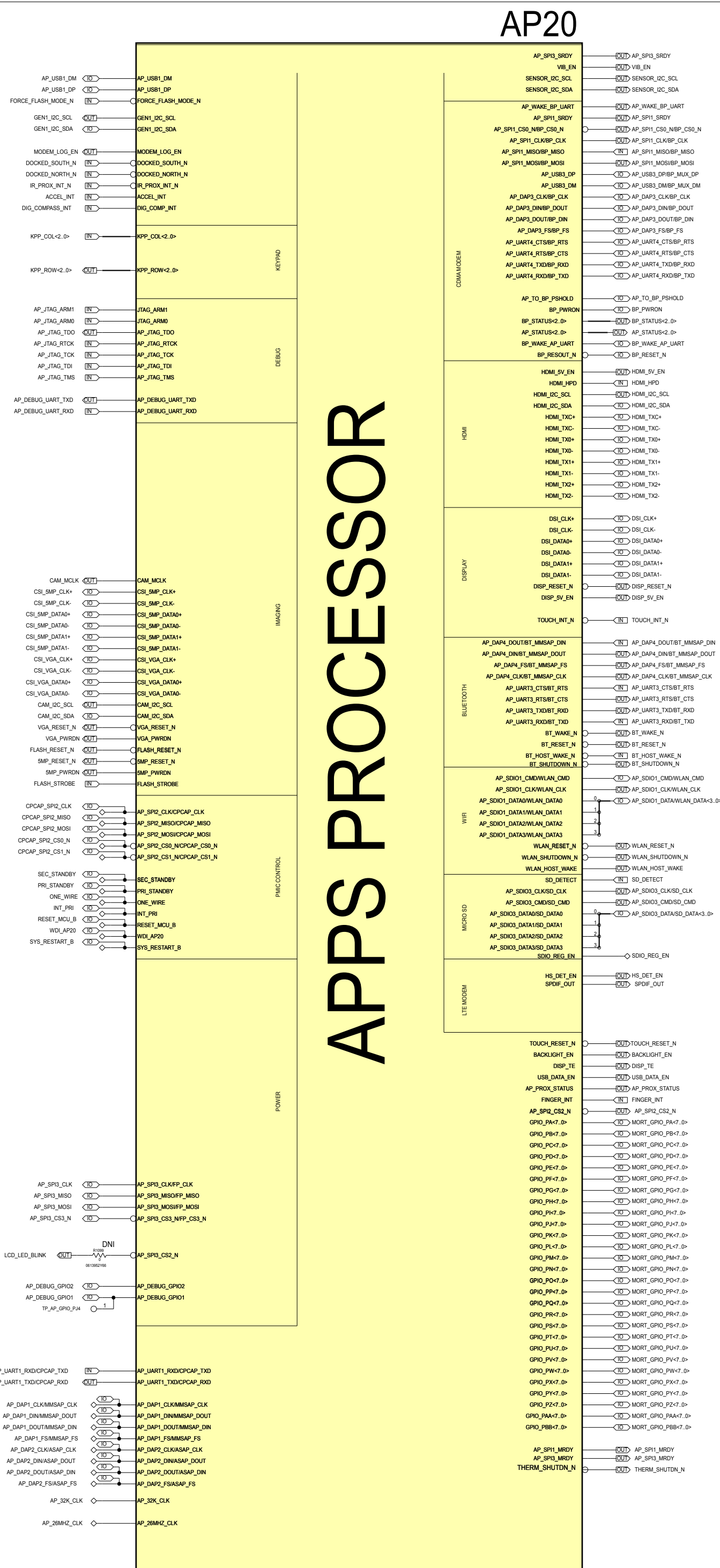
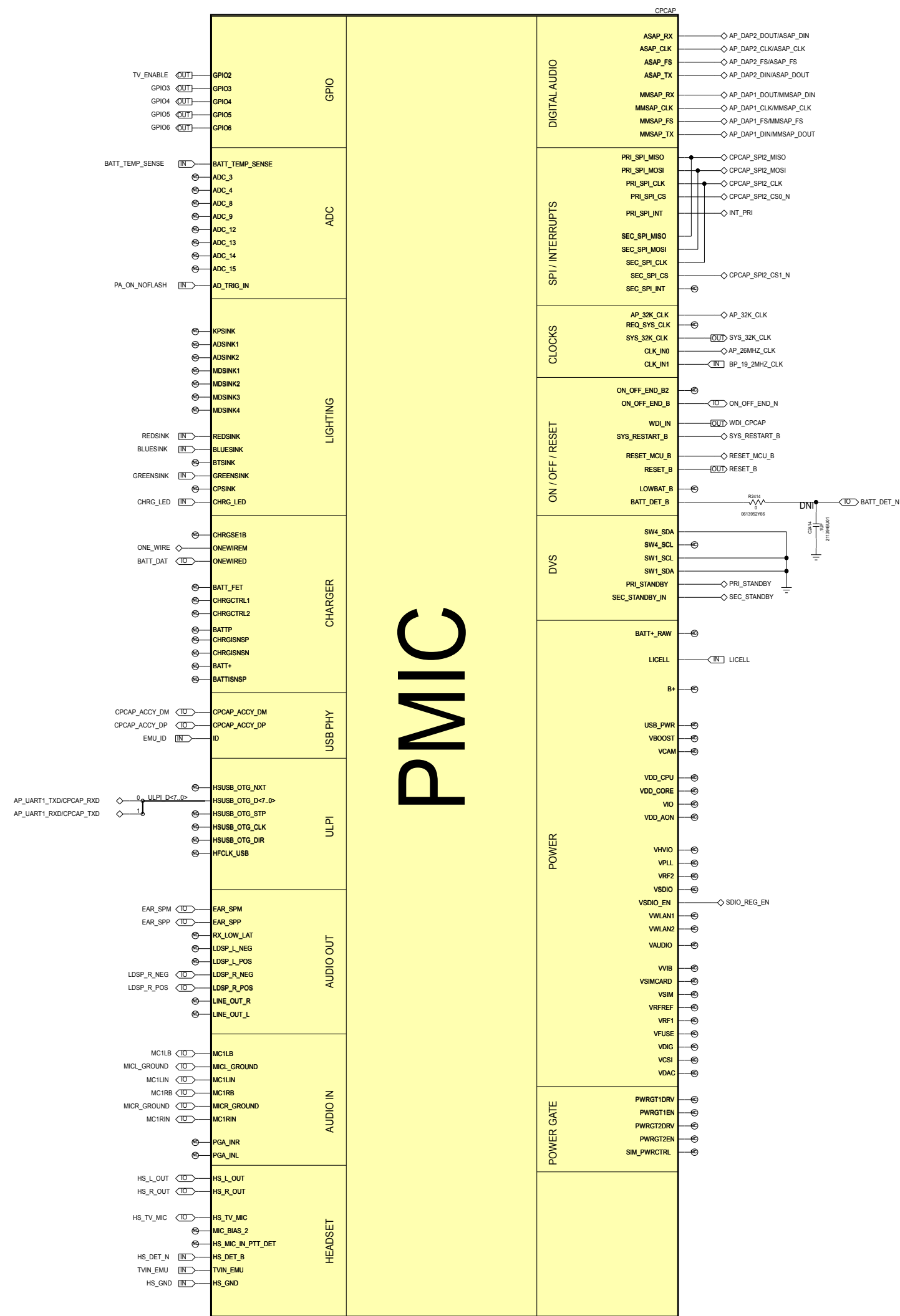


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MB 860_84006507001

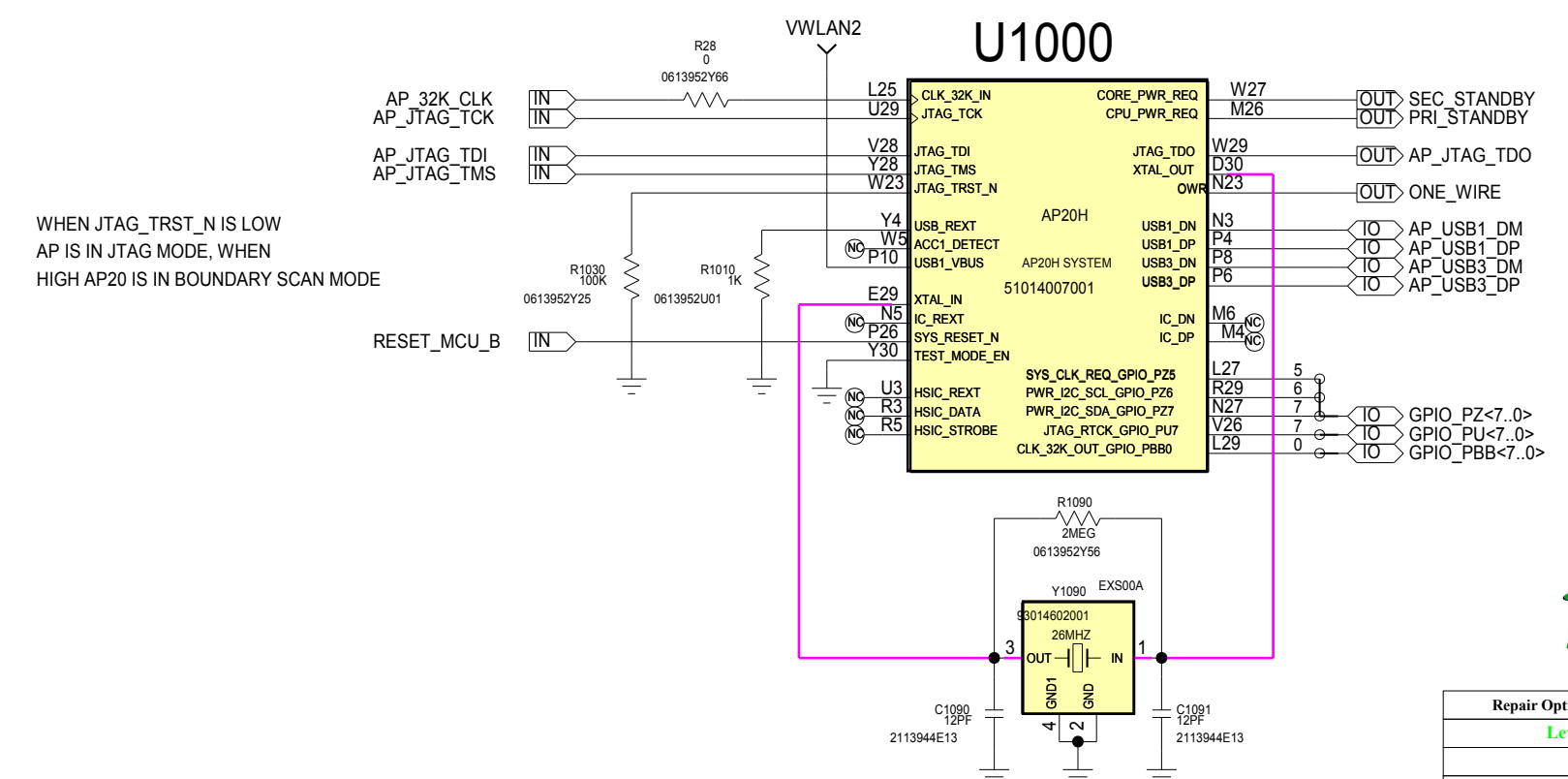
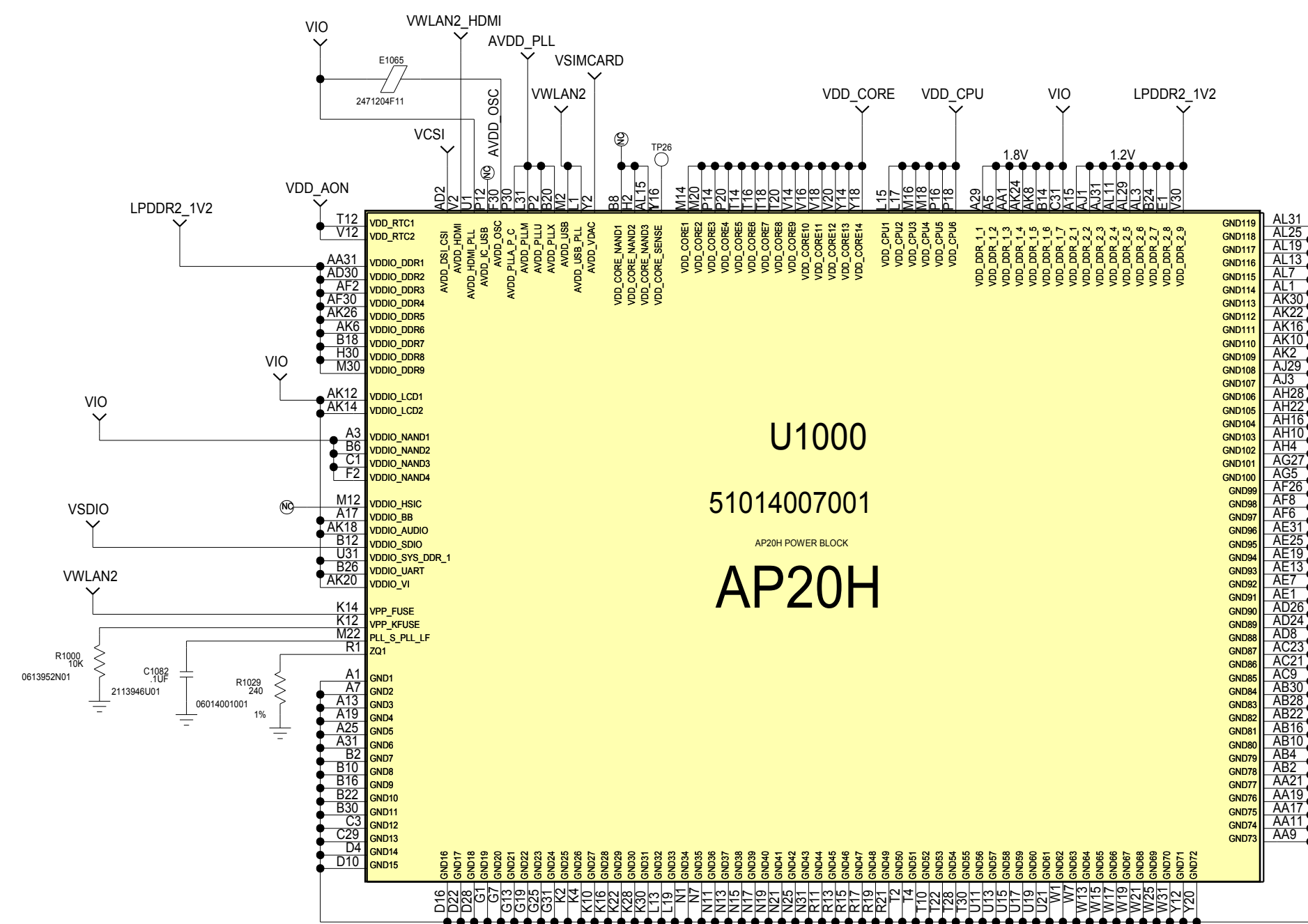
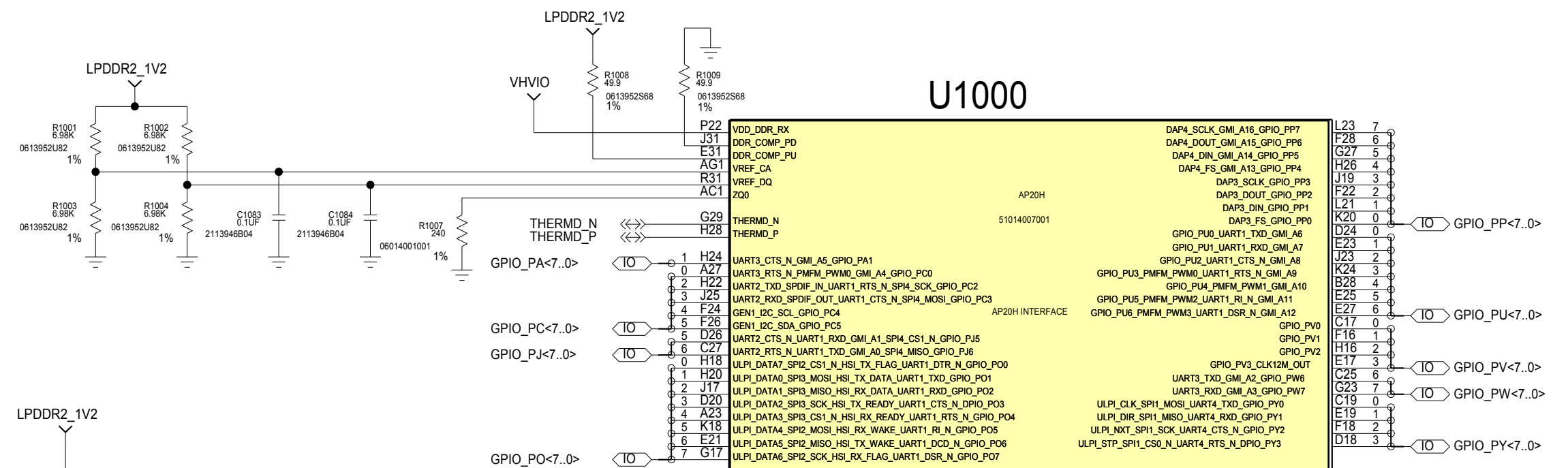
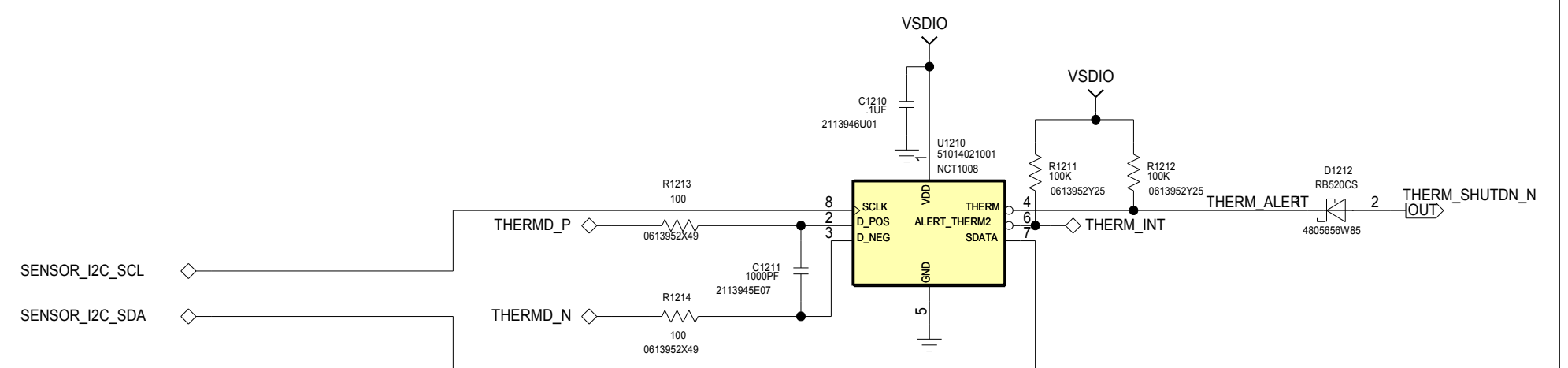
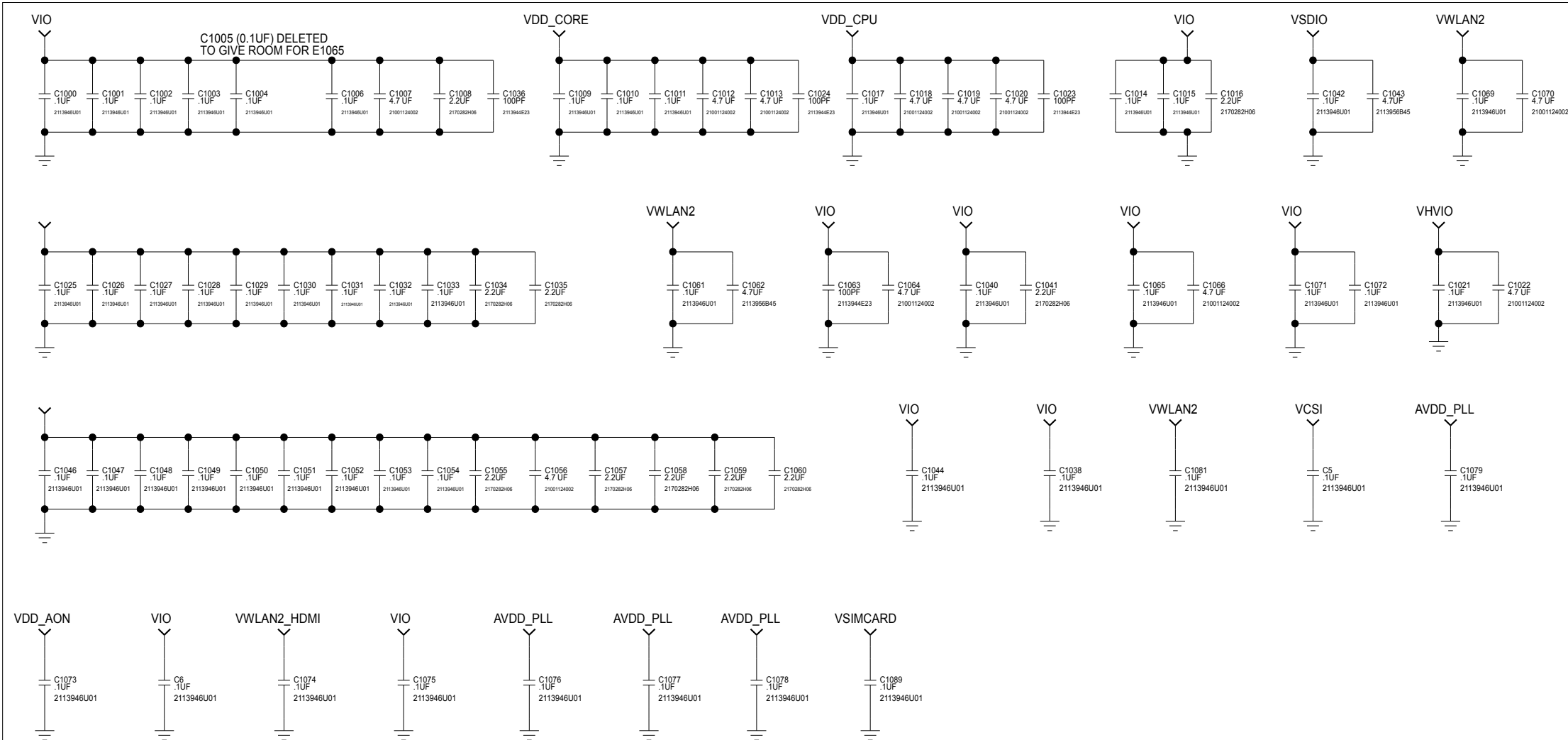


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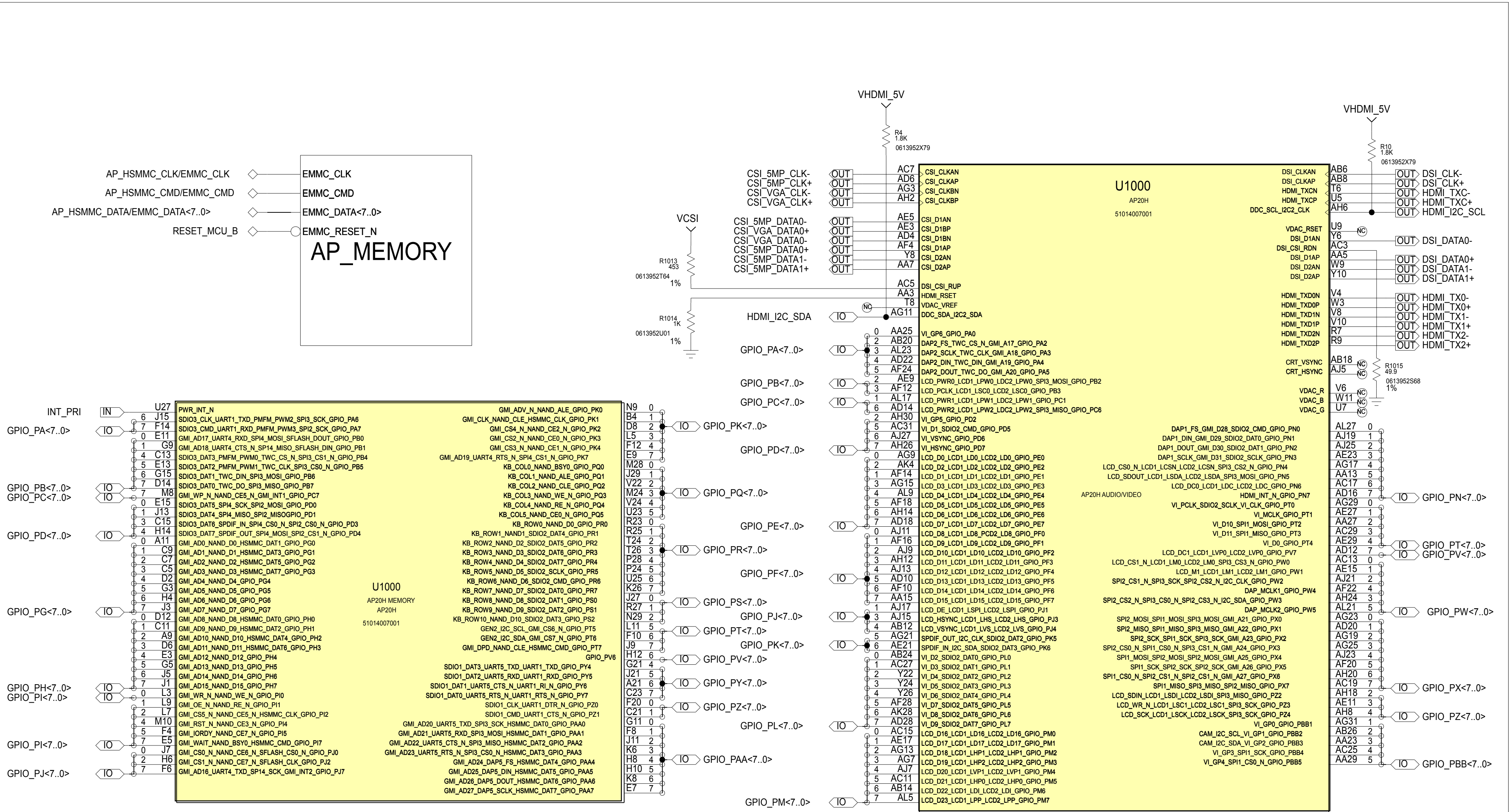


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AP20 TEMP SENSOR

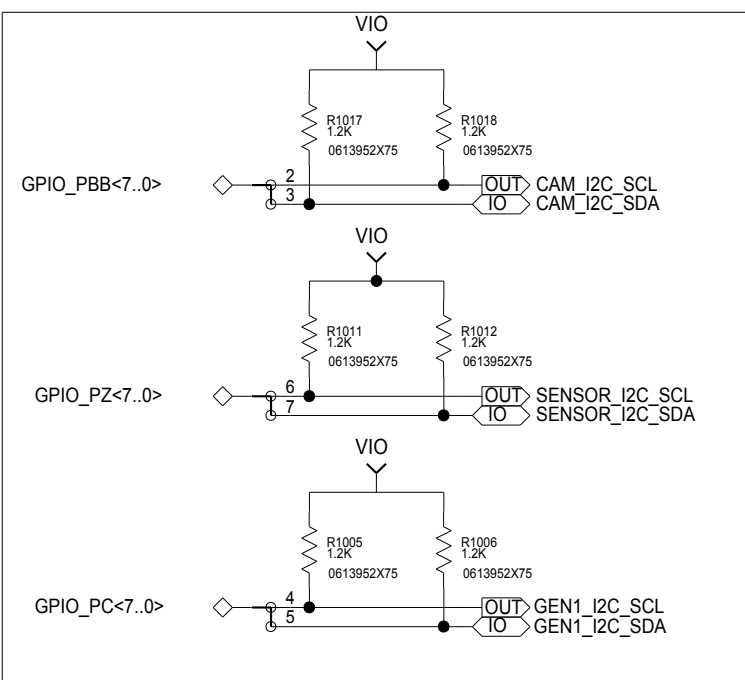


MB 860_84006507001

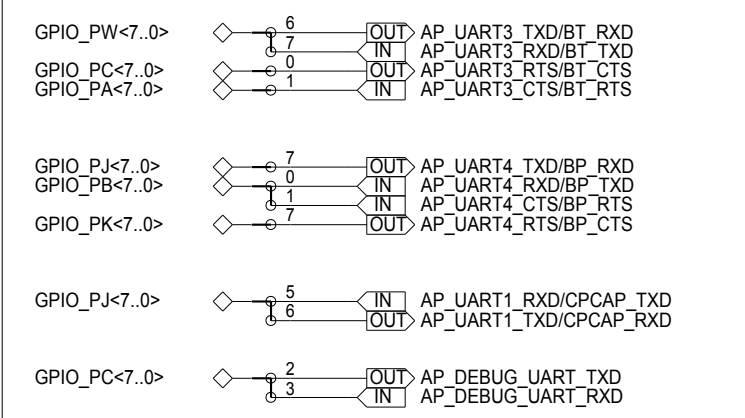


GPIO MAP

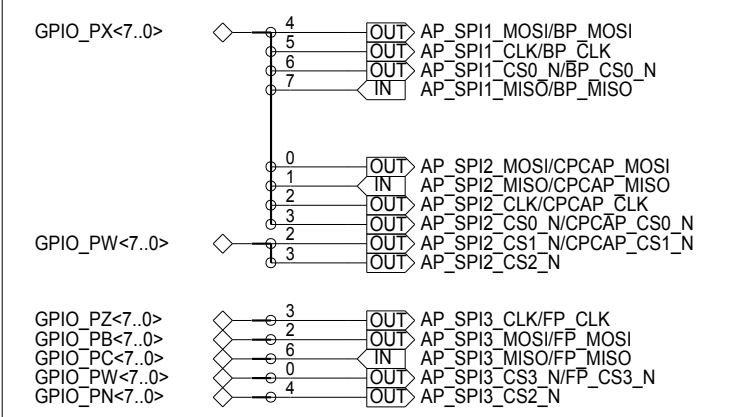
I2C



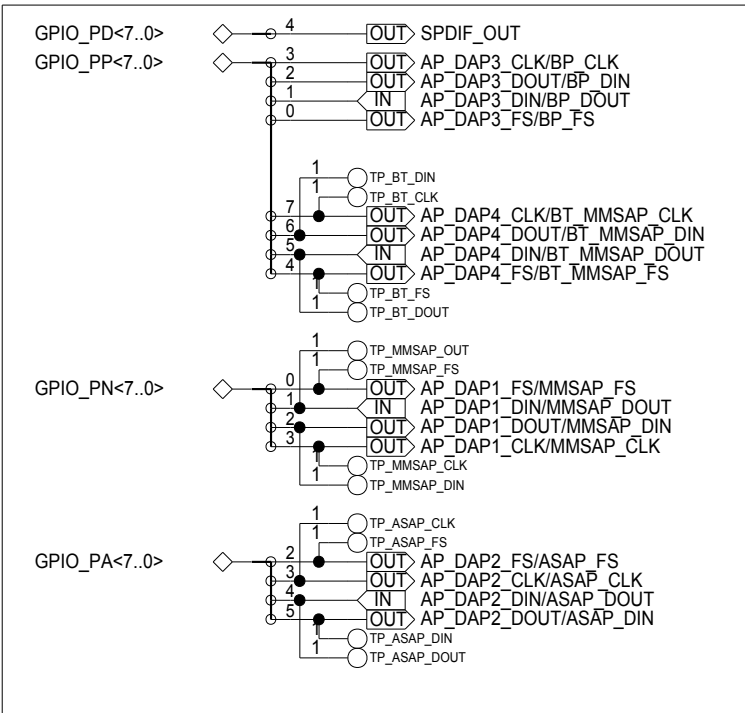
UART



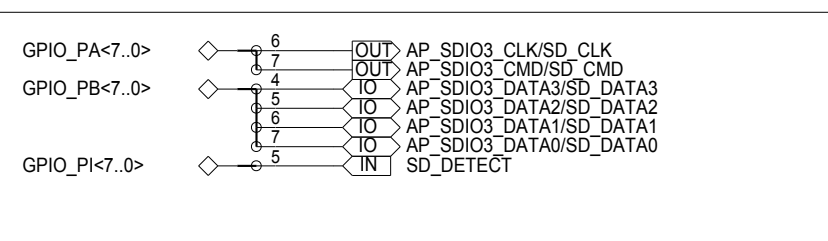
SPI



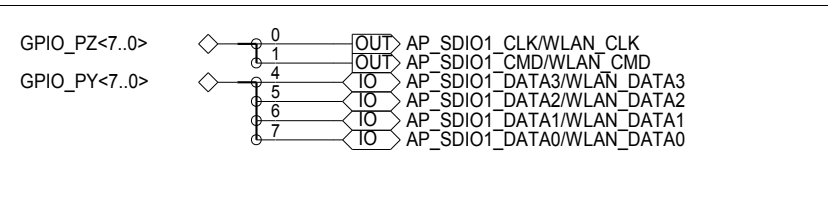
DIGITAL AUDIO



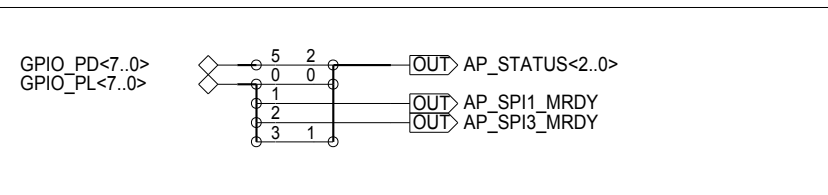
MICRO SD CARD



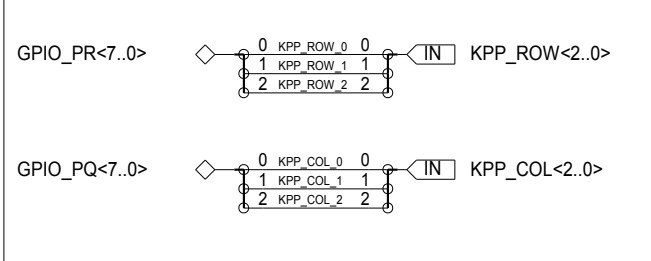
WLAN



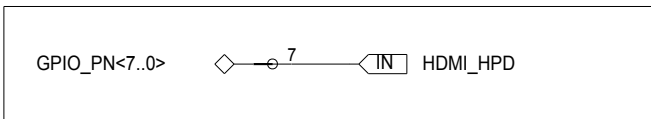
BP/AP



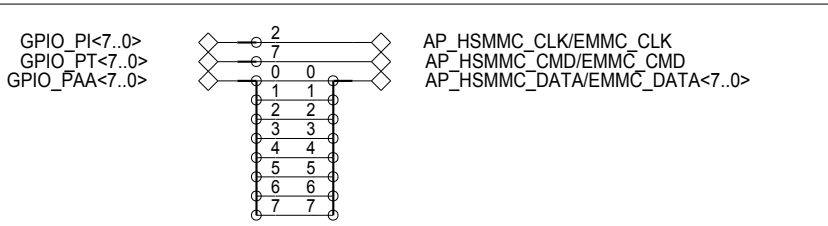
KEYPAD



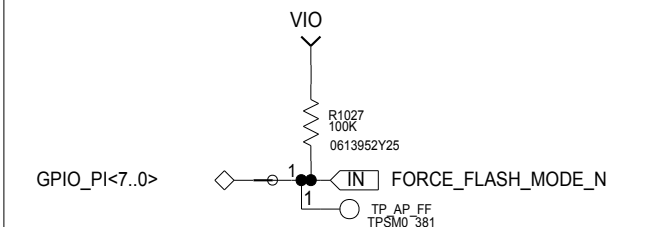
MISC



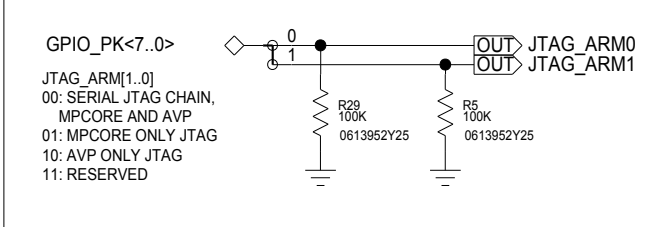
EMMC



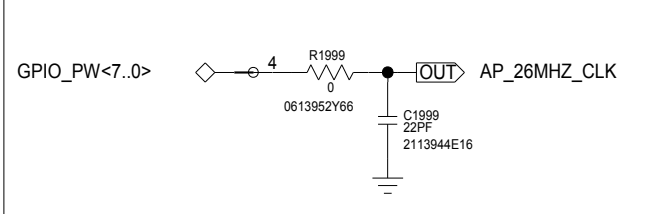
EMMC FORCE FLASH



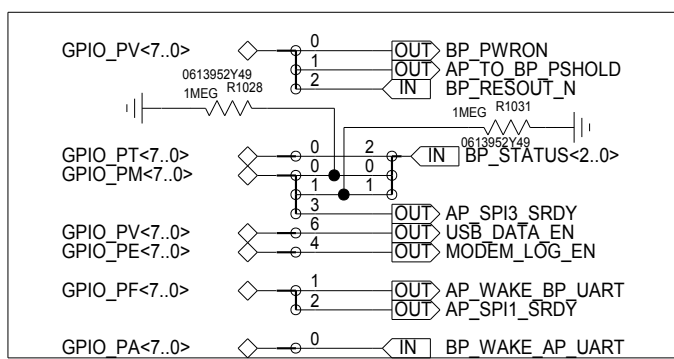
JTAG CONTROL



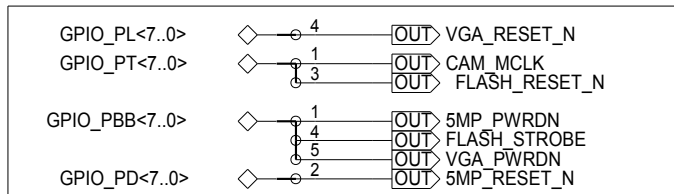
AP 26MHZ FILTER



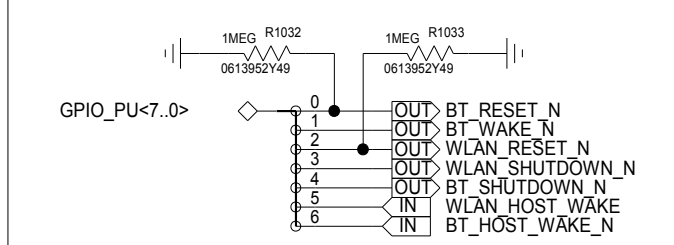
BP/IPC



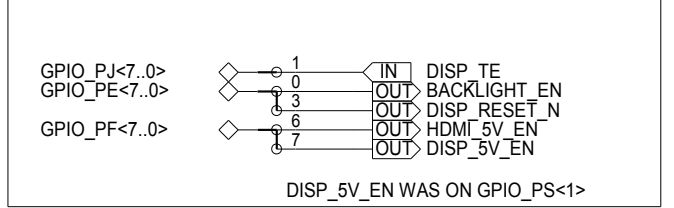
CAMERA



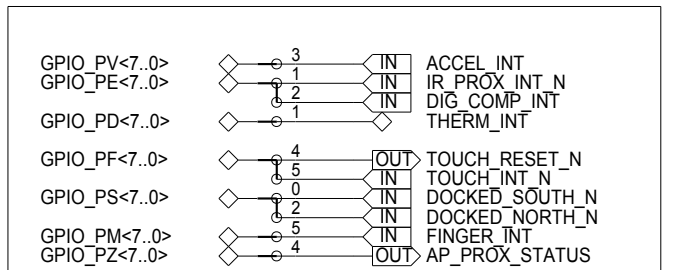
BT/WLAN



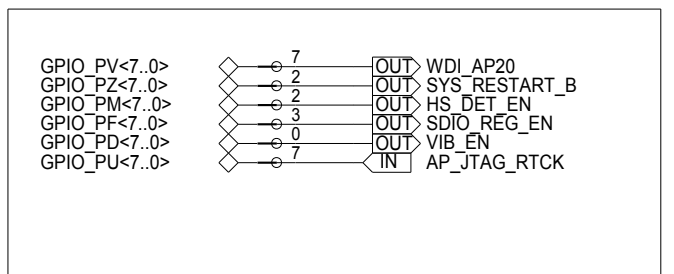
DISPLAY/HDMI



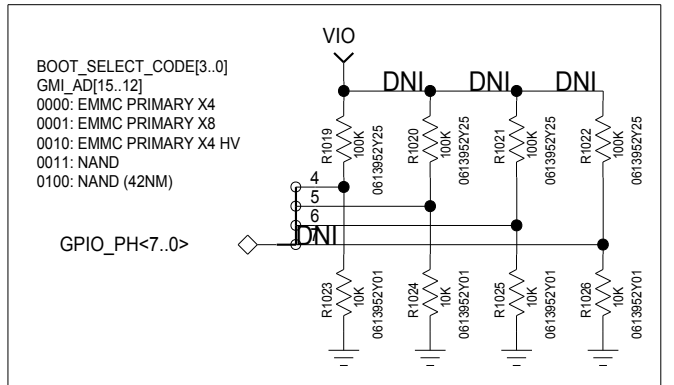
SENSORS



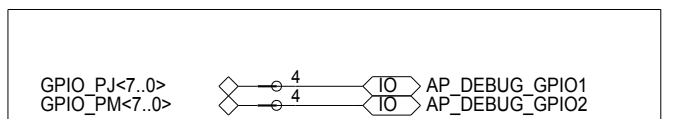
MISC



AP BOOT SELECTION

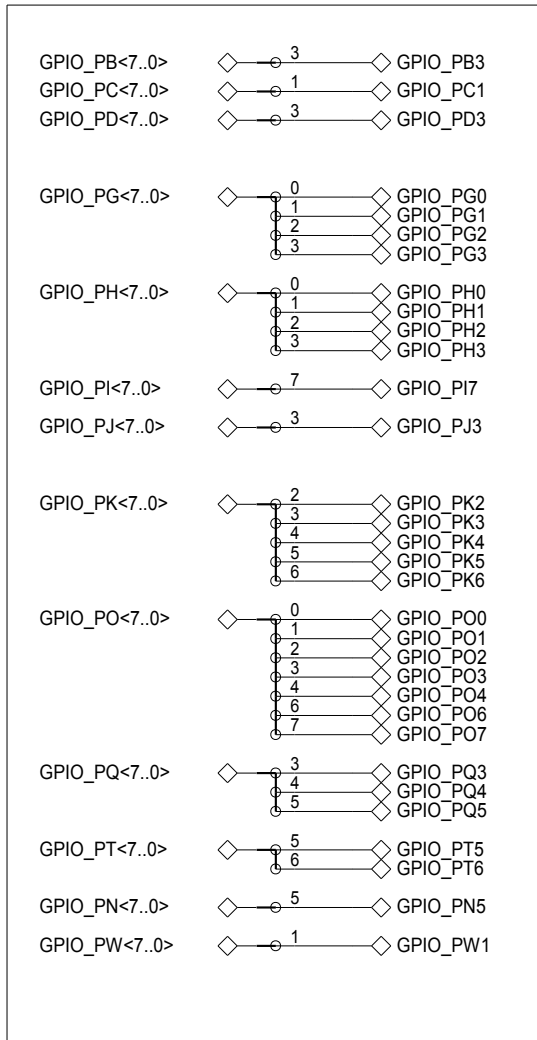


AP DEBUG

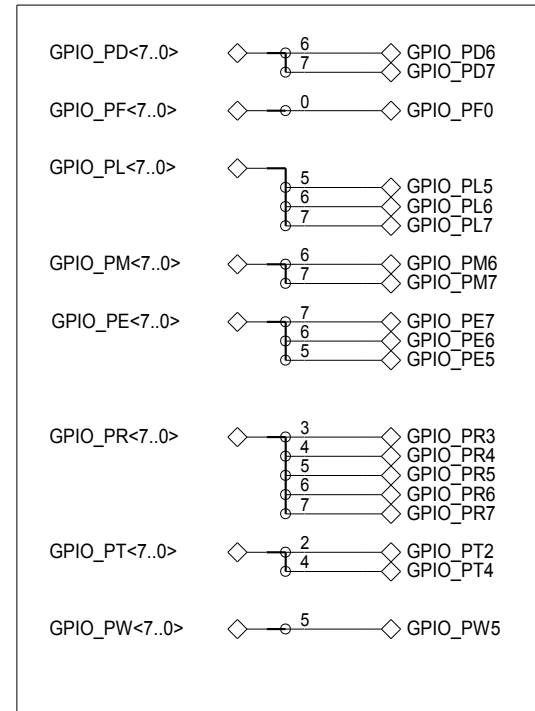


AP20 UNUSED GPIO

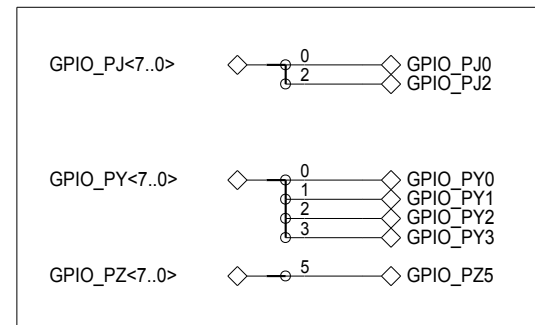
POR PU



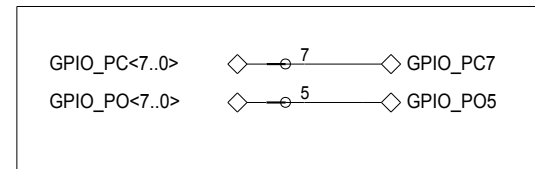
POR PD



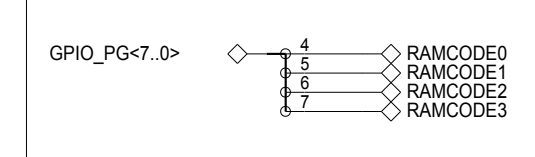
POR Z



WAKE CAPABLE

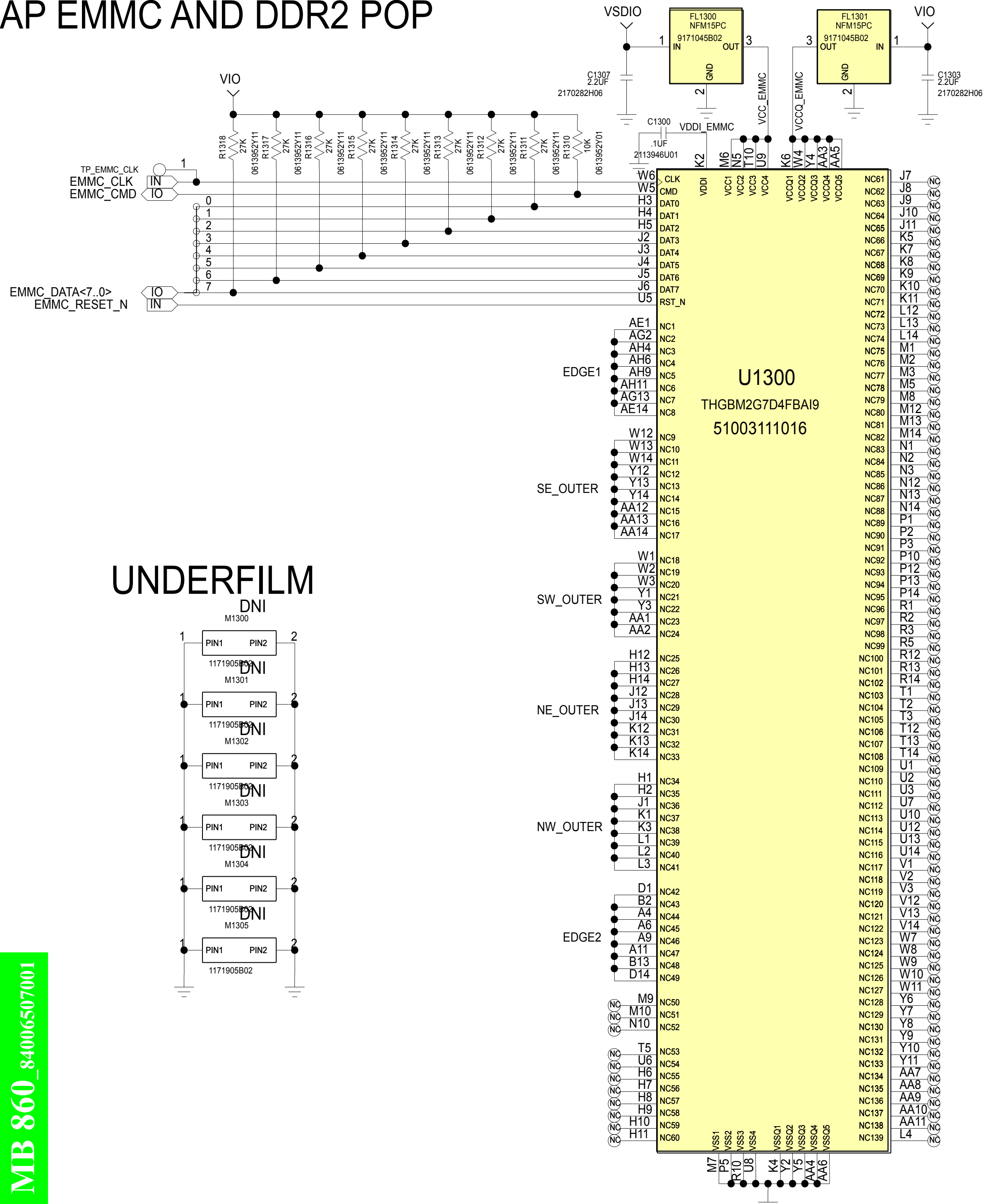


RESERVED DO NOT USE



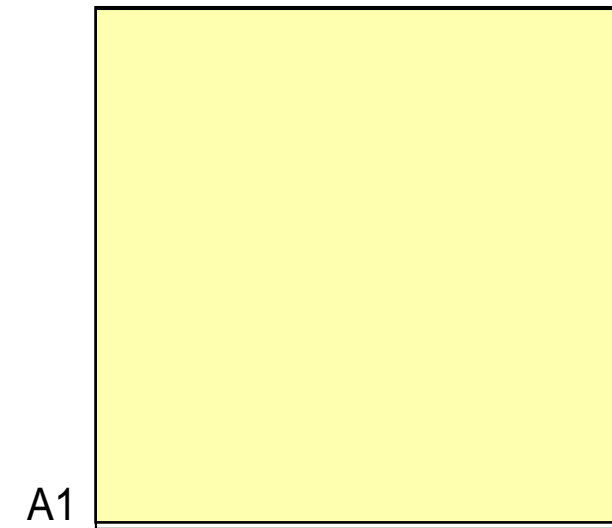
MB 860_84006507001

AP EMMC AND DDR2 POP



POP SDRAM

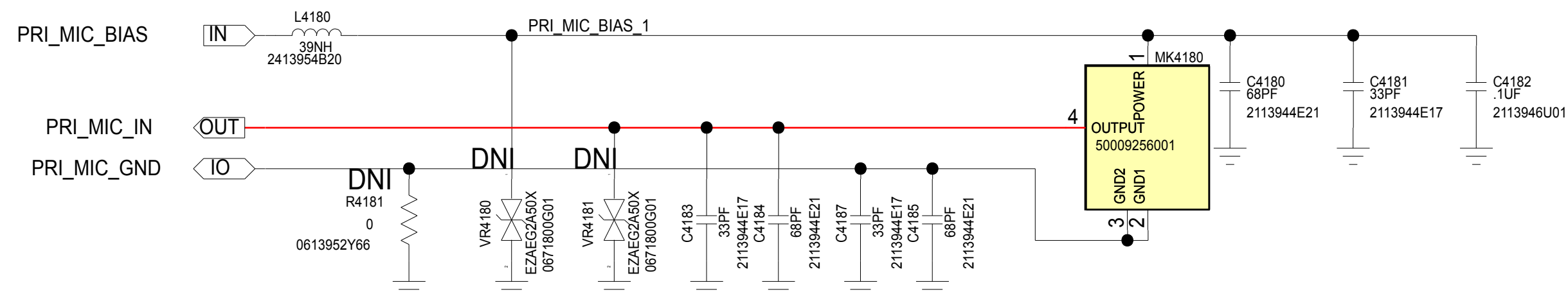
5185916H65
U1400
EDB8132B1PB



A1

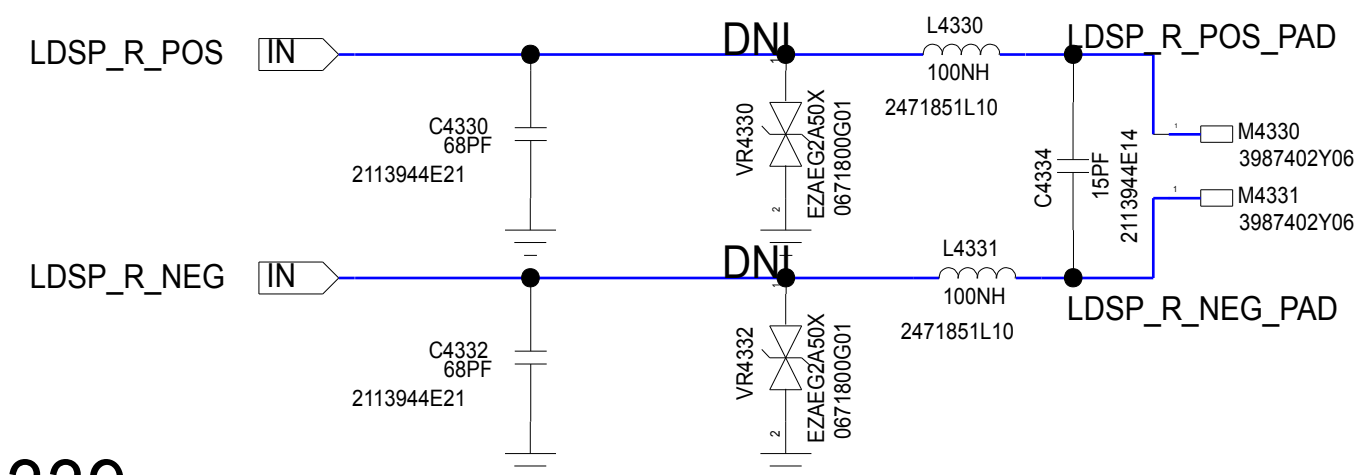
MB 860_84006507001

PRIMARY MIC



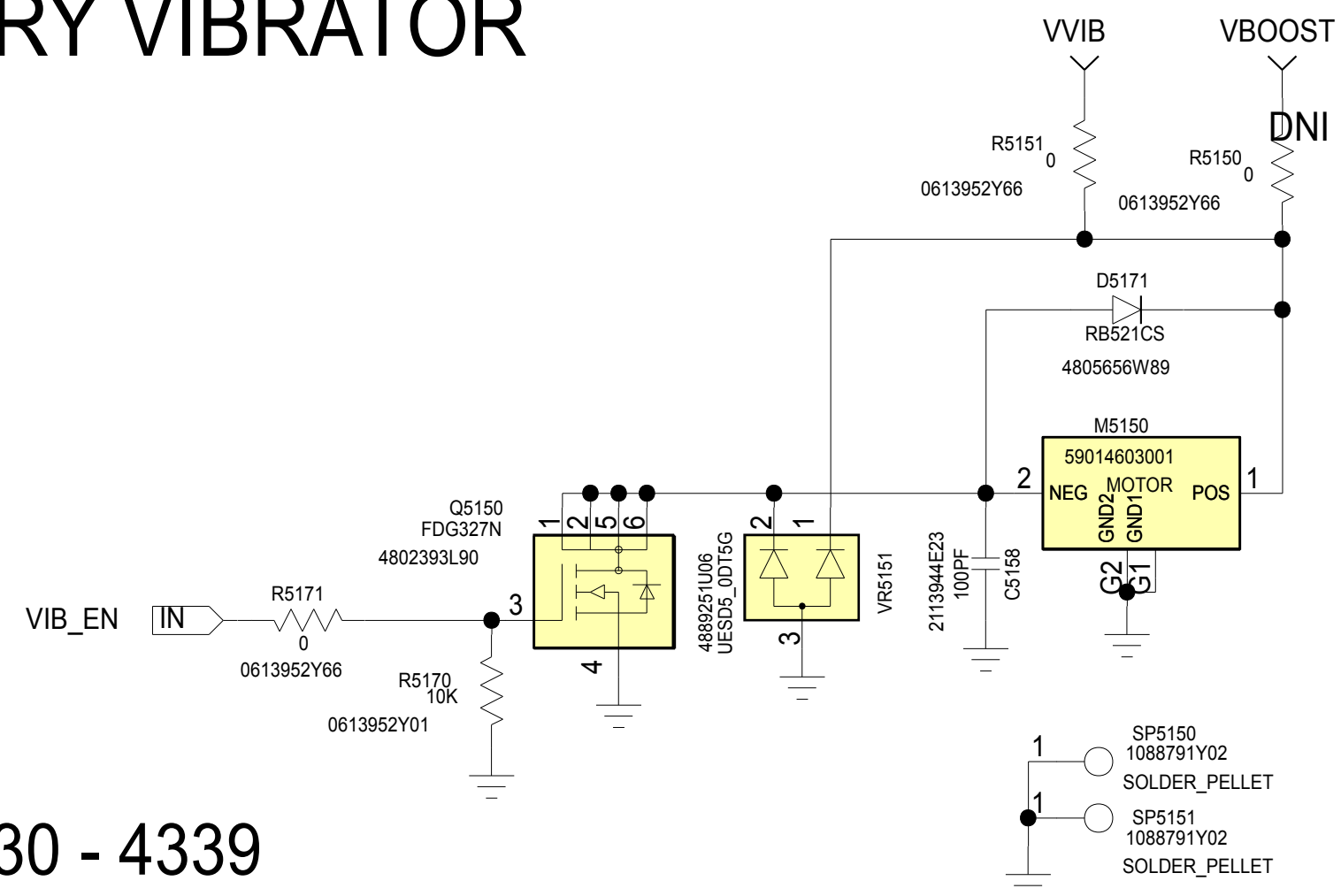
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LOUDSPEAKER



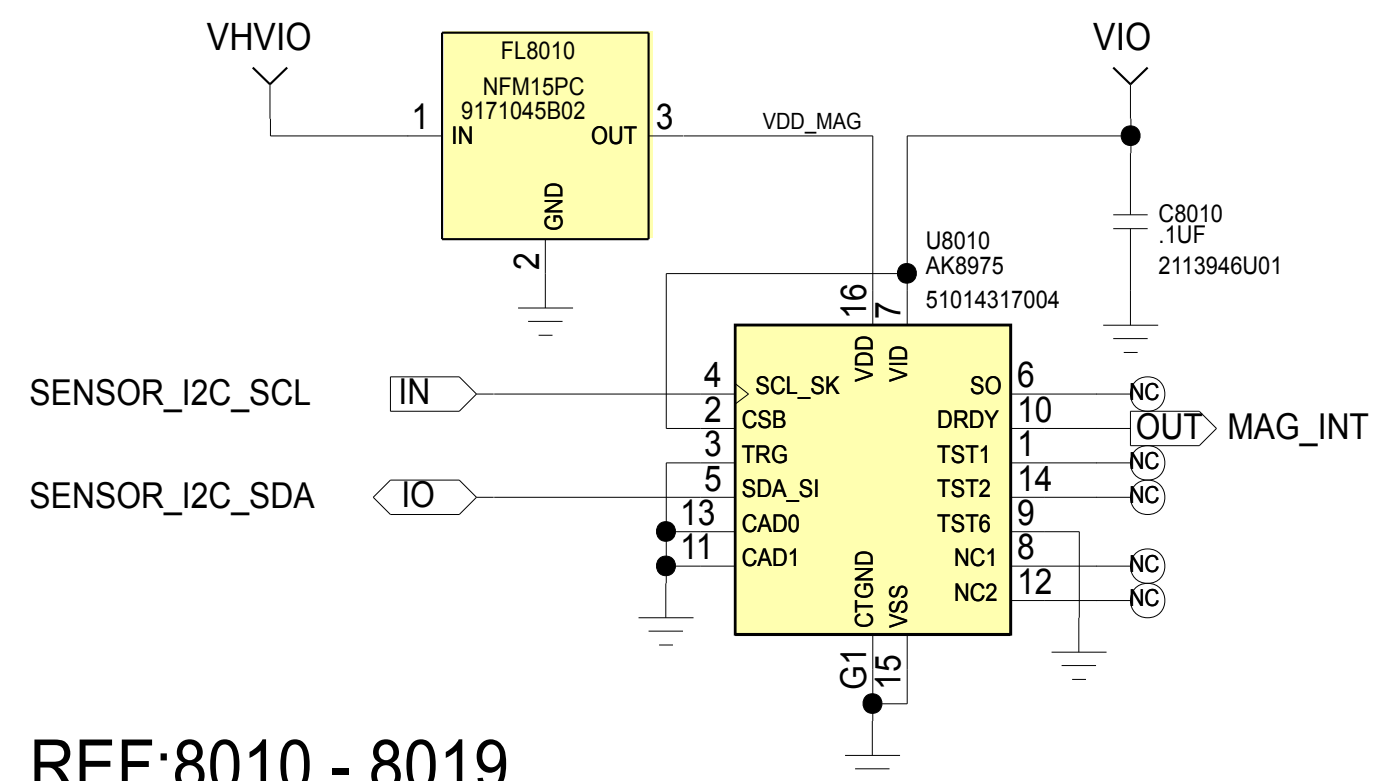
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ROTARY VIBRATOR



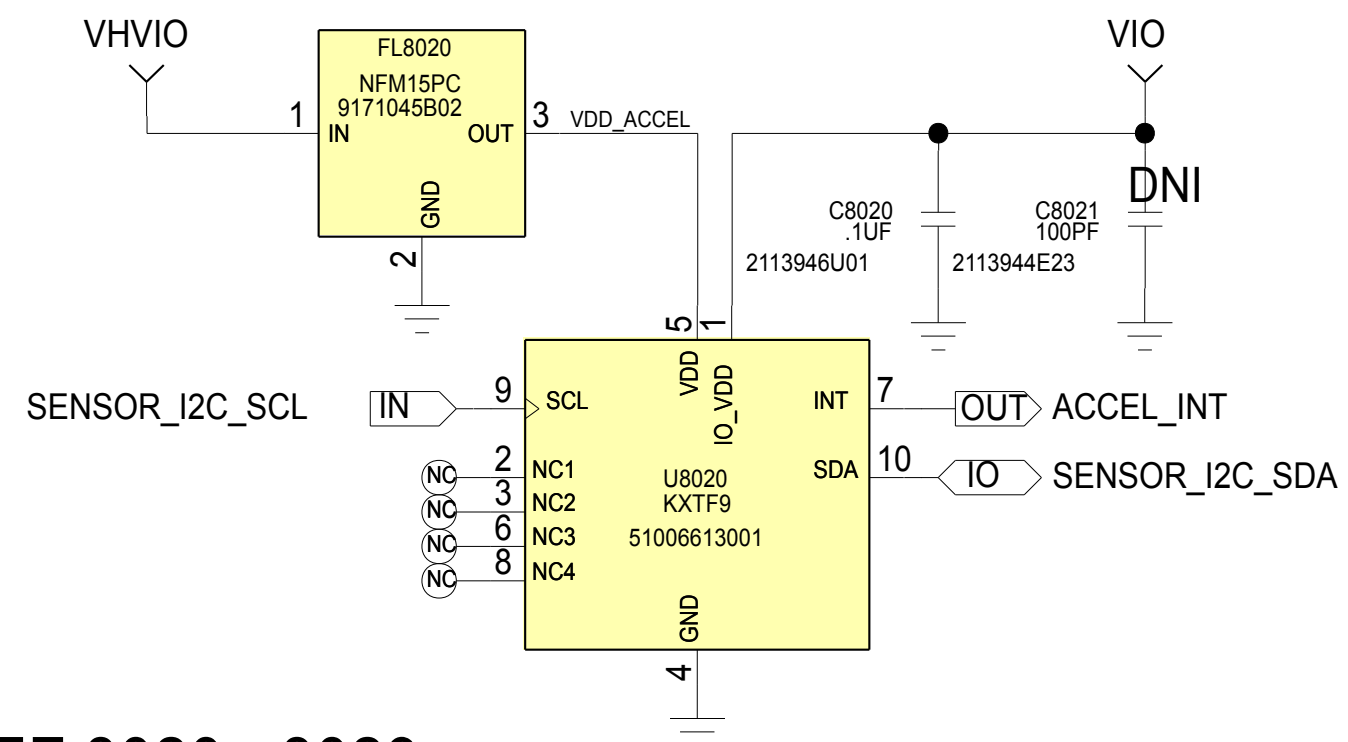
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MAGNETOMETER



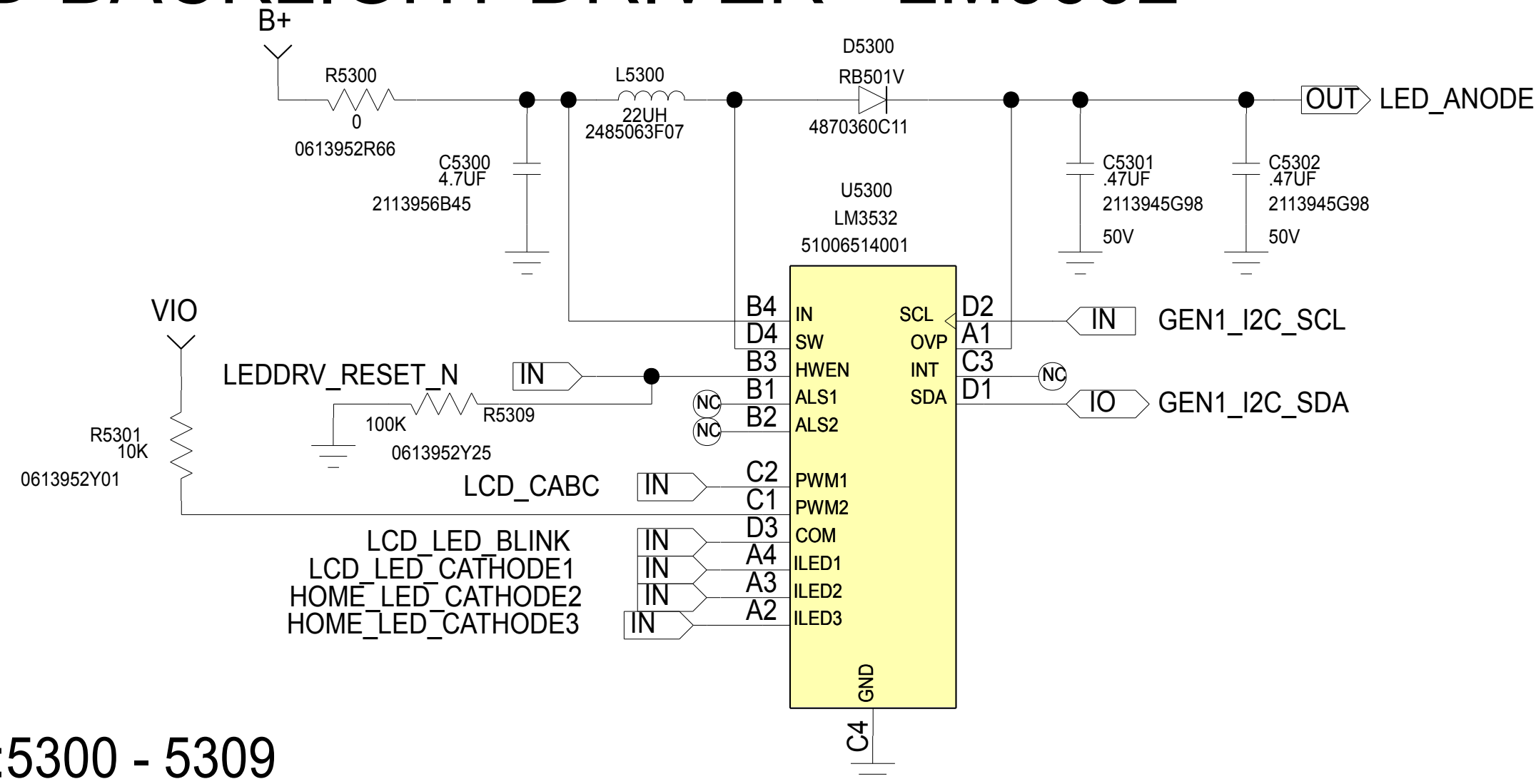
REF:8010 - 8019

ACCELEROMETER

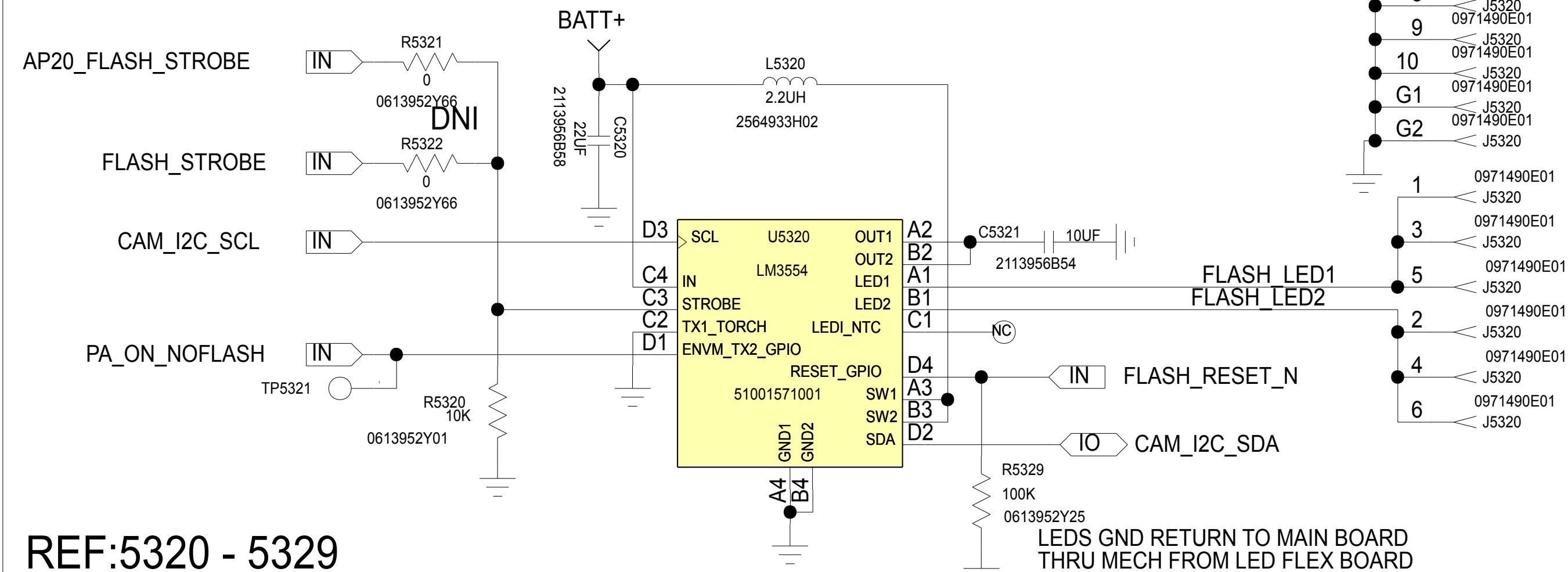


REF:8020 - 8029

LCD BACKLIGHT DRIVER - LM3532



LED FLASH DRIVER - LM3554



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[illegible]

REF:5300 - 5309

[illegible]

REF:5310 - 5319

[illegible]

REF:4600 - 4699

DISP_5V_EN (IN)

VBOOST

4868695V1

Q2000 FL0033L1

FL7000

8177000000000

LED_ANODE (IN)

VDISP_5V_DSP

VIO (IN)

VIO_DSP

DISP_TE (OUT)

LCD_LED_CATHODE1 (OUT)

HOME_LED_CATHODE2 (OUT)

HOME_LED_CATHODE3 (OUT)

DISP_RESET_N (IN)

DISP_5V_DSP

DISP_DATA0- (TO)

DISP_DATA0+ (TO)

DISP_CLK- (IN)

DISP_CLK+ (IN)

DISP_DATA1- (TO)

DISP_DATA1+ (TO)

REF:5300 - 5309

REF:5300 - 5309

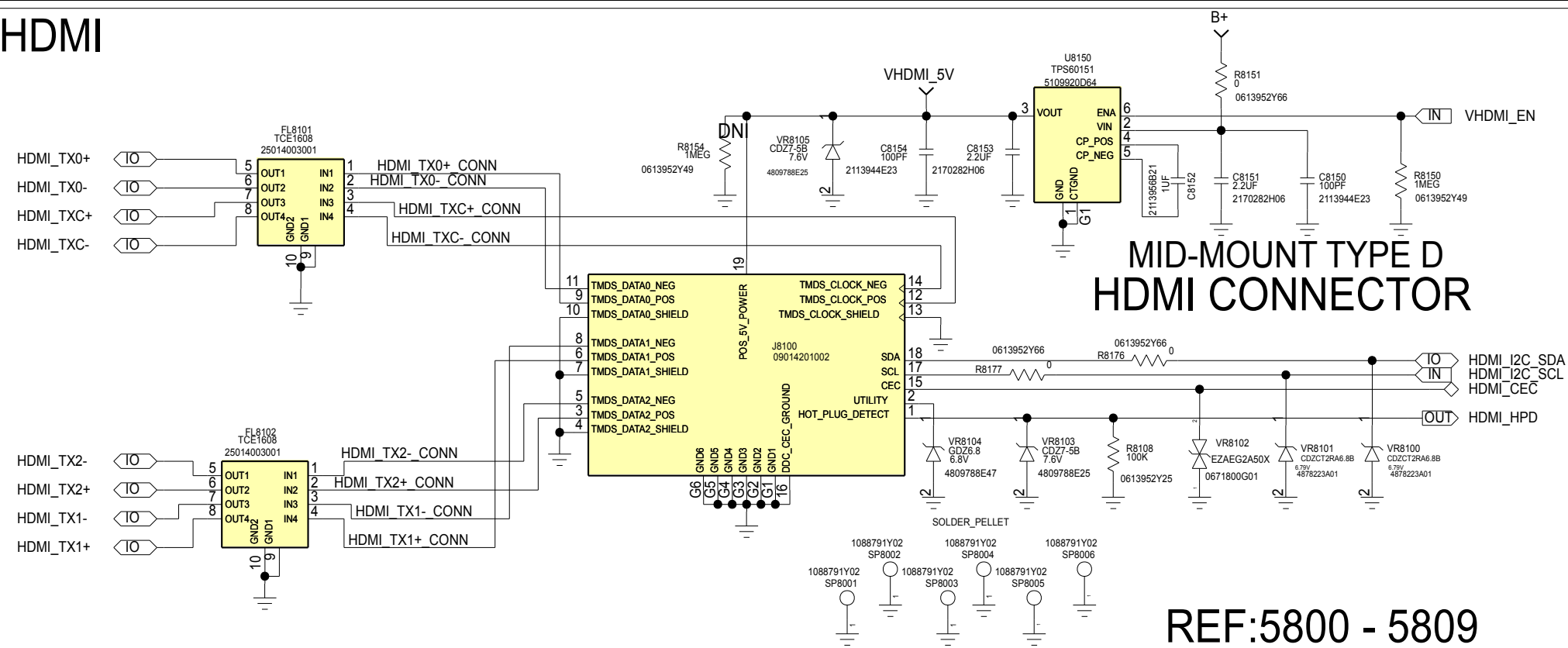
The diagram illustrates the 30-pin B2B connector layout for the Raspberry Pi 4B, organized into three main sections: Touchscreen, Camera, and Regulators.

- Touchscreen Section (Left):**
 - Touchscreen:** Includes pins for EAR_SPP, EAR_SPM, TOUCH_INT_N, TOUCH_RESET_N, and VIO.
 - Touchscreen Regulator:** Features a 1.1V regulator (LDO07) with pins for TOUCH_INT_N, TOUCH_RESET_N, and VIO.
 - Touchscreen Sensor:** Includes pins for TOUCH_INT_N, TOUCH_RESET_N, and VIO.
- Camera Section (Middle):**
 - Camera:** Includes pins for CAM_MCLK, CAM_I2C_SCL, CAM_I2C_SDA, CAM_PWDN, and VIO.
 - Camera Sensor:** Includes pins for CAM_I2C_SCL, CAM_I2C_SDA, CAM_PWDN, and VIO.
- Regulators Section (Right):**
 - VGA 2V8 Regulator:** Features a 2.8V regulator (LDO07) with pins for B+, VHVIO, and VIO.
 - VGA Sensor:** Includes pins for B+, VHVIO, and VIO.

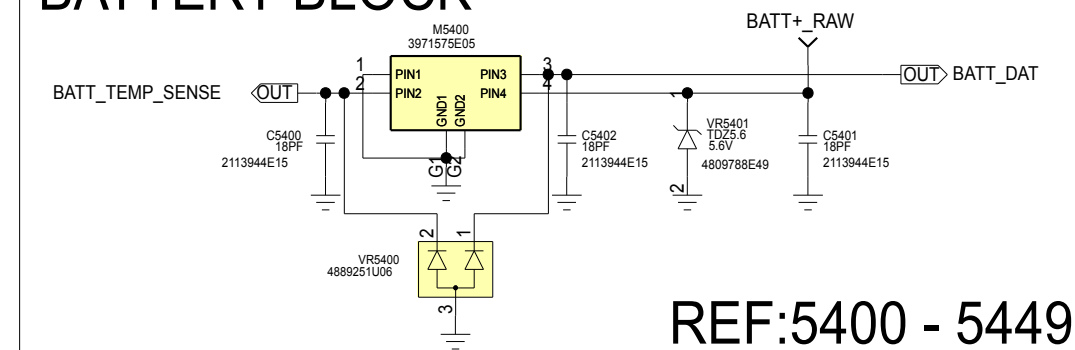
The diagram also shows various other components like capacitors, resistors, and diodes, and their connections to the 30-pin B2B connector.

VGA 2V8 REGULATOR

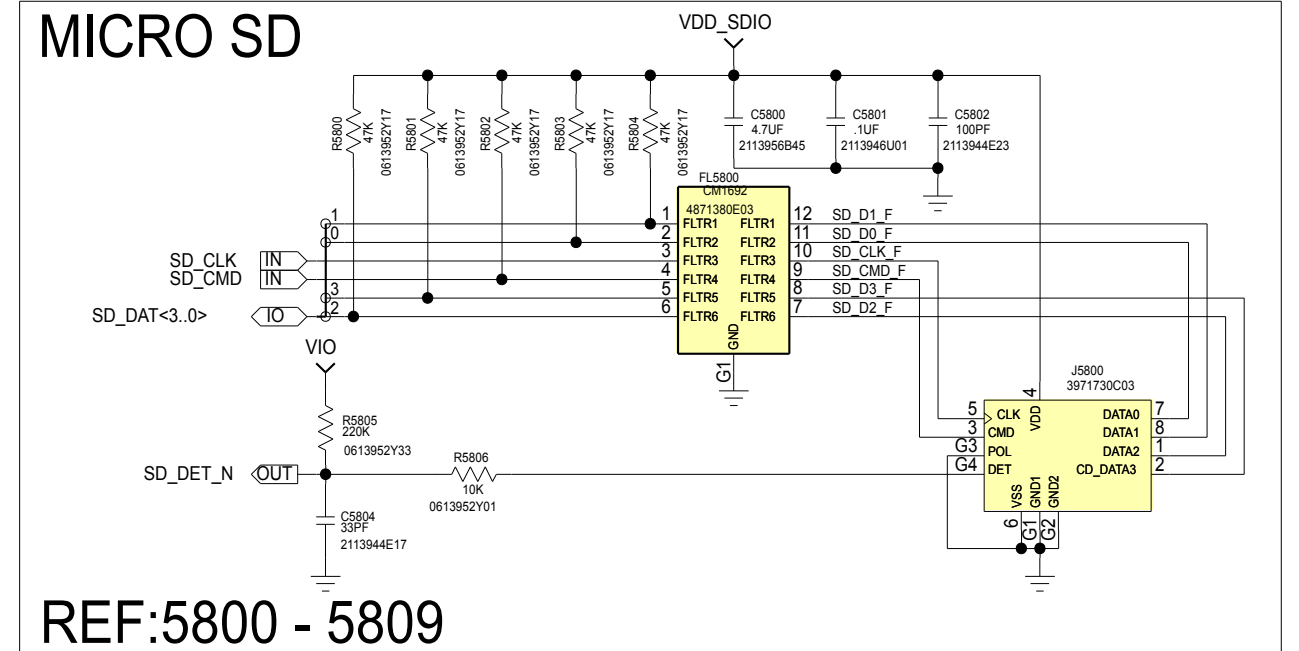
HDMI



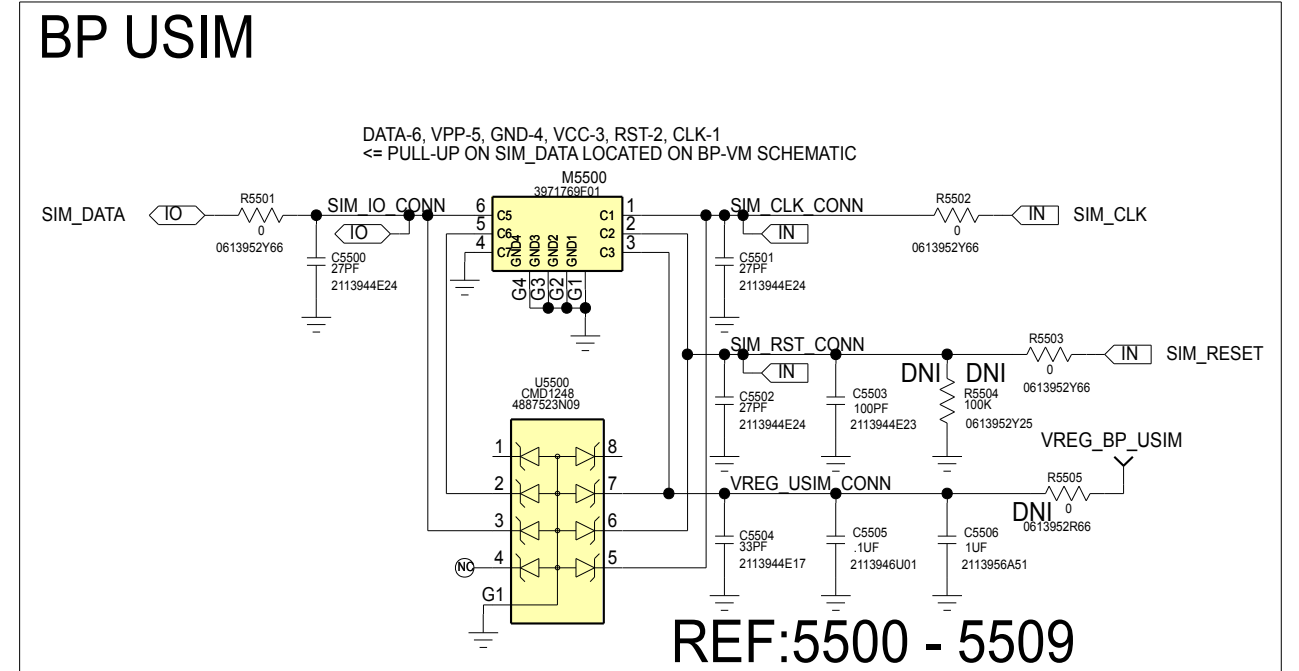
BATTERY BLOCK



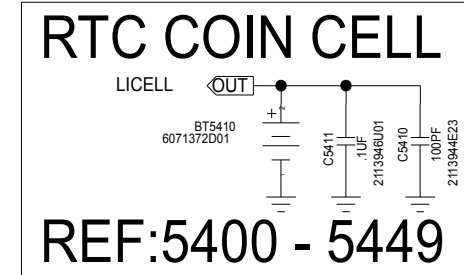
MICRO SD



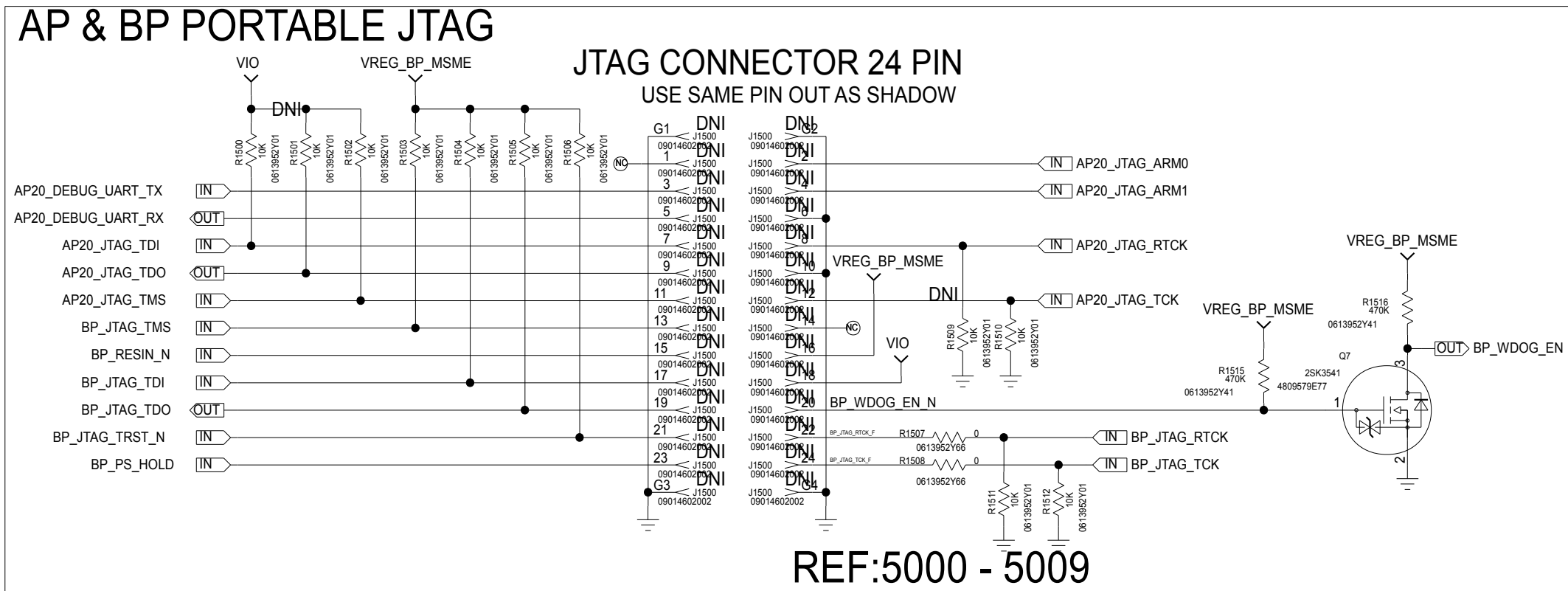
BP USIM



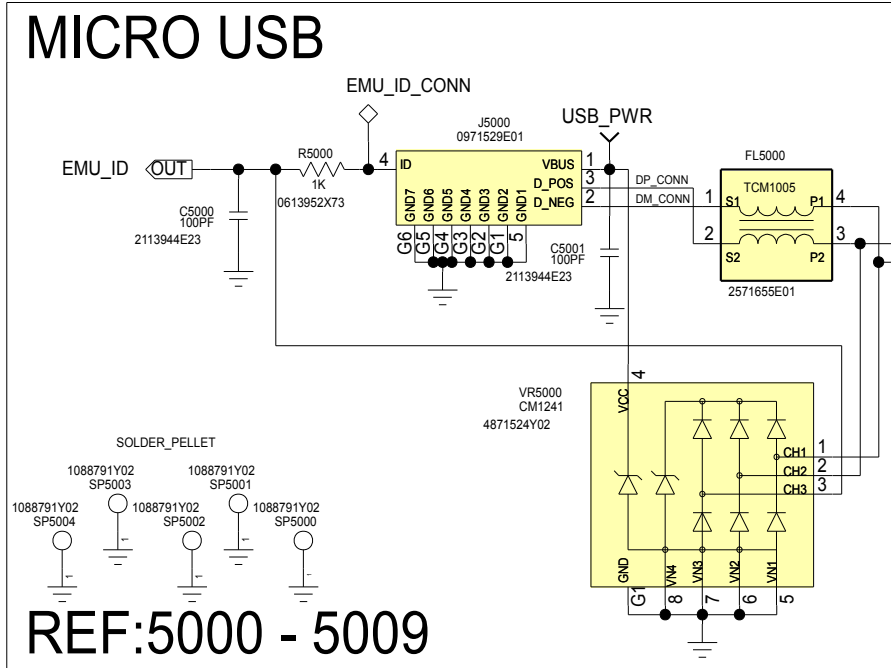
RTC COIN CELL



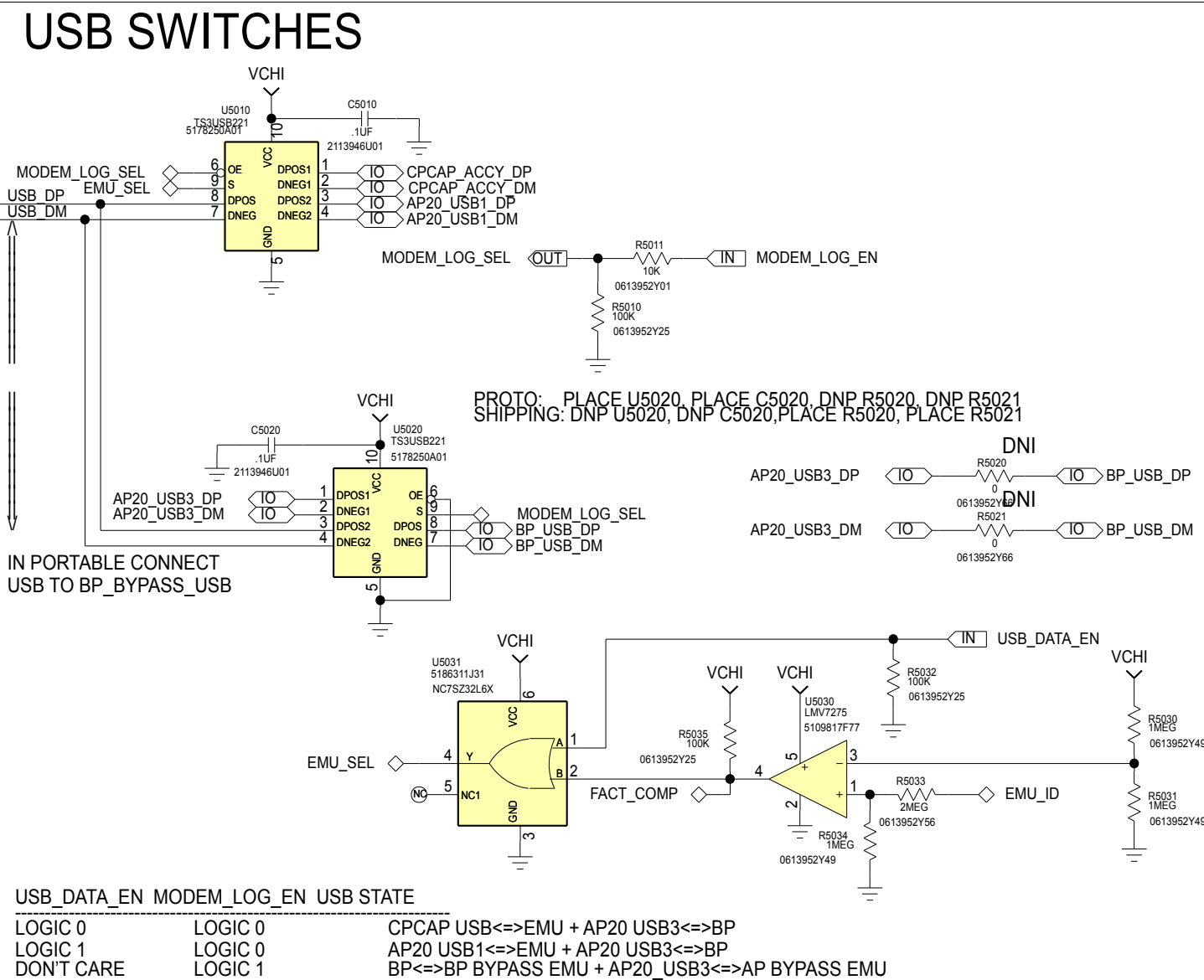
AP & BP PORTABLE JTAG



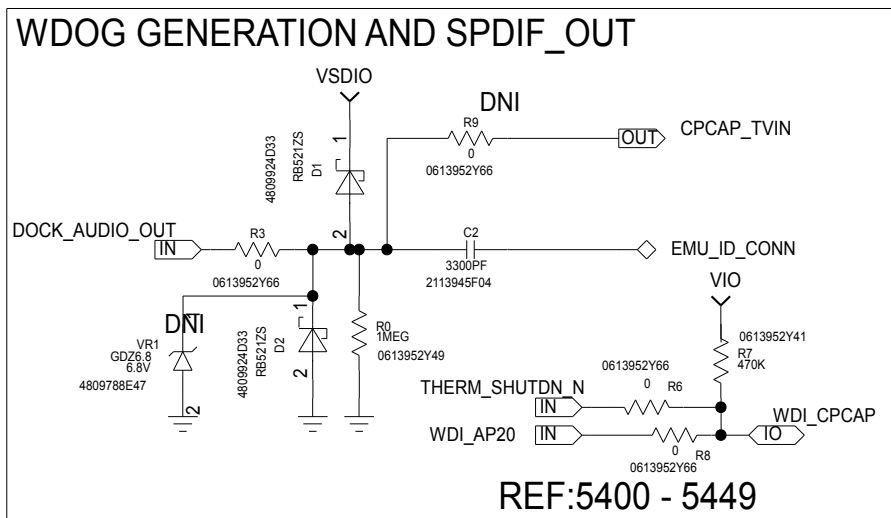
MICRO USB



USB SWITCHES

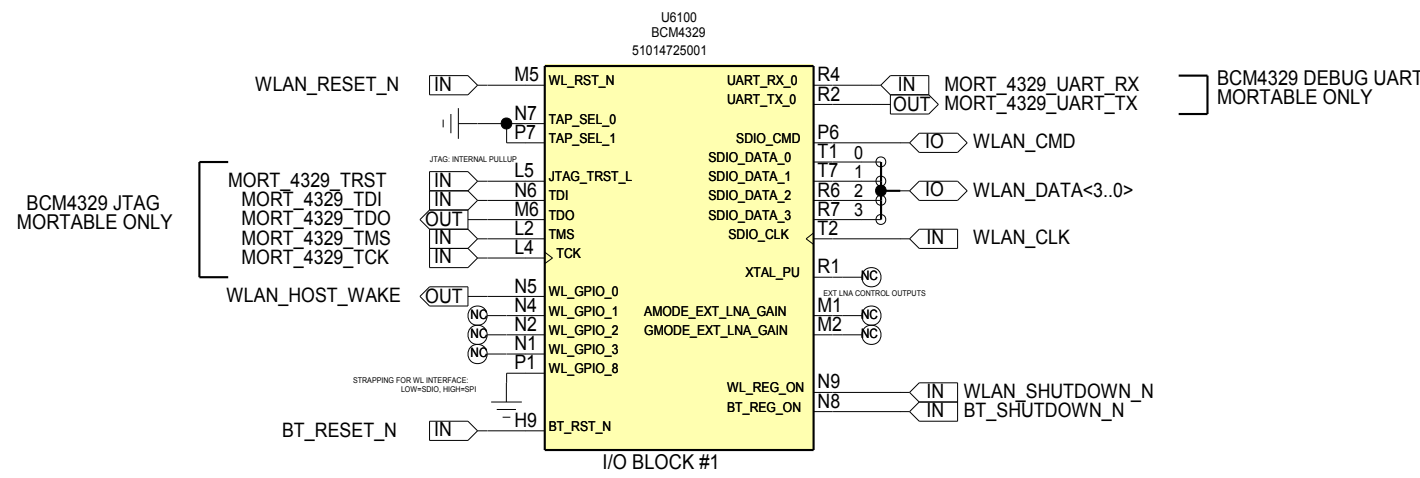


WDOG GENERATION AND SPDIF_OUT

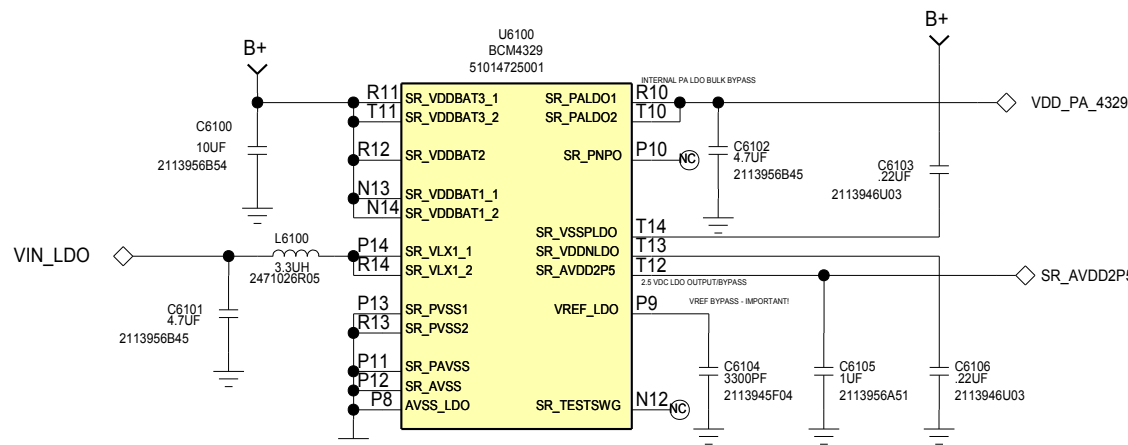


BCM4329 WIFI/BT

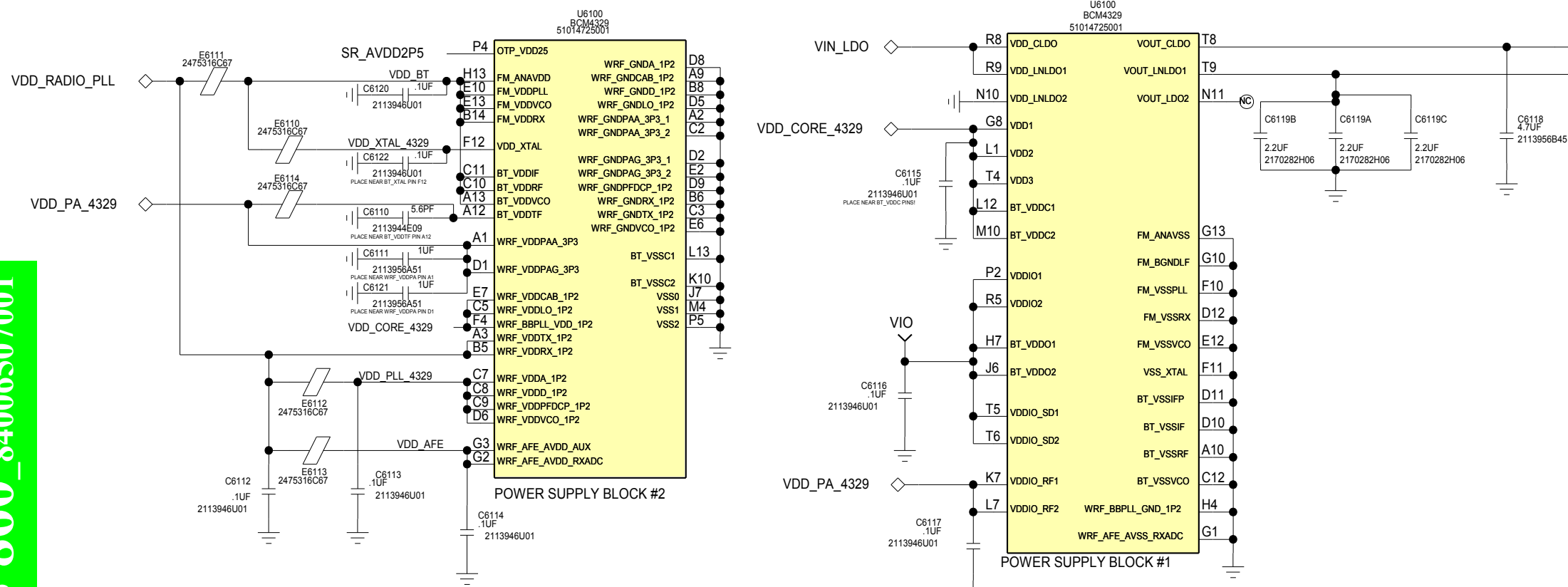
BCM4329 MISC I/O



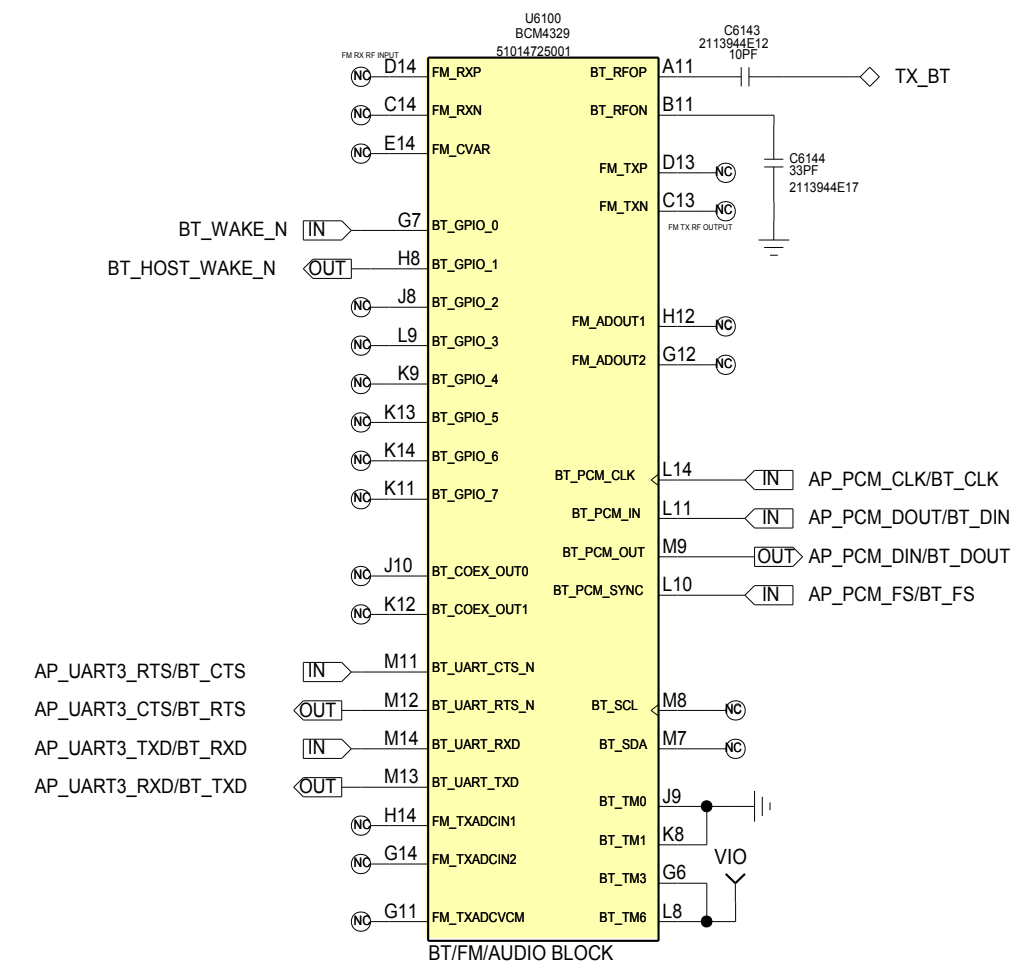
BCM4329 SWITCHING POWER SUPPLIES



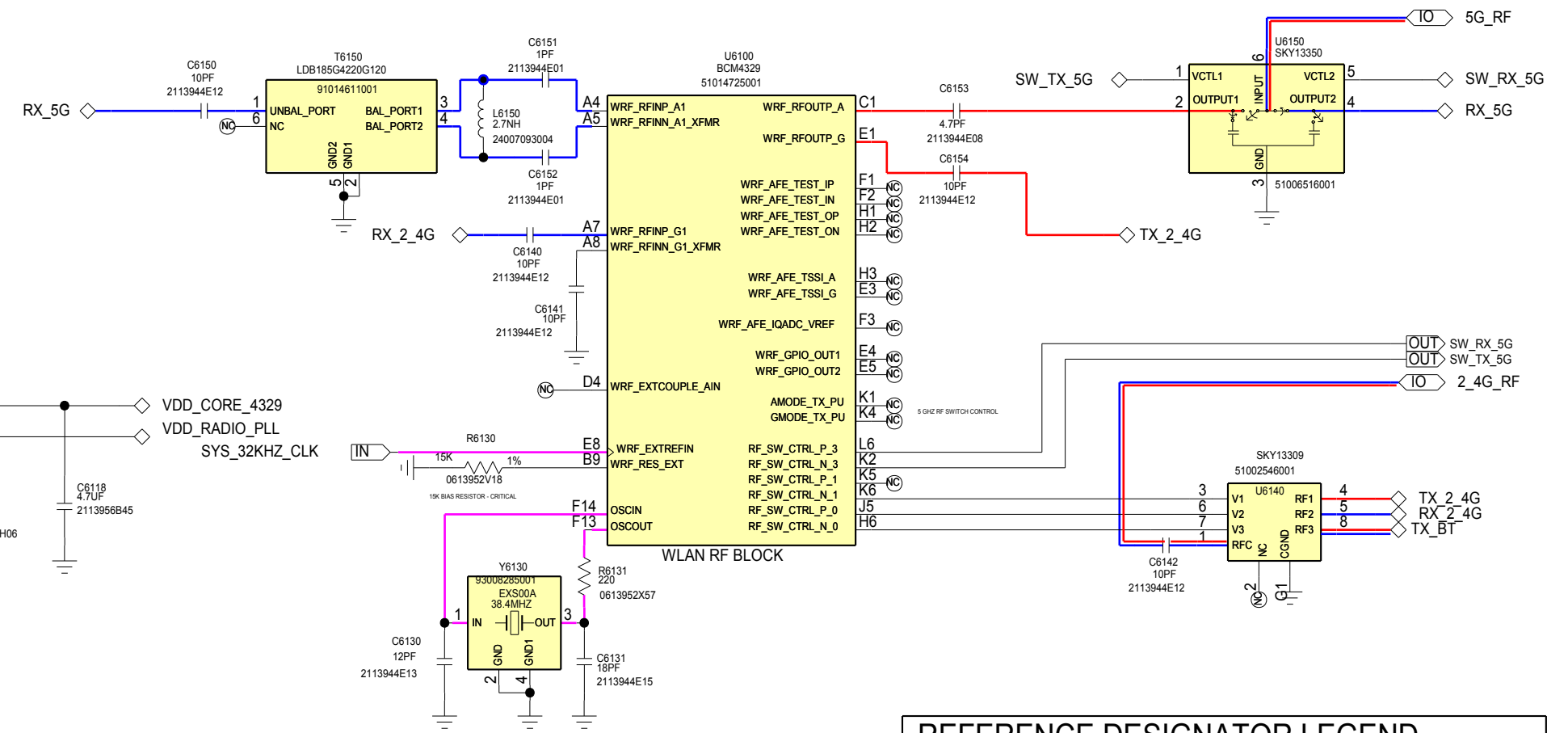
BCM4329 DC POWER DISTRIBUTION



BCM4329 BT/FM/AUDIO



BCM4329 RF/SWITCH/ANTENNA

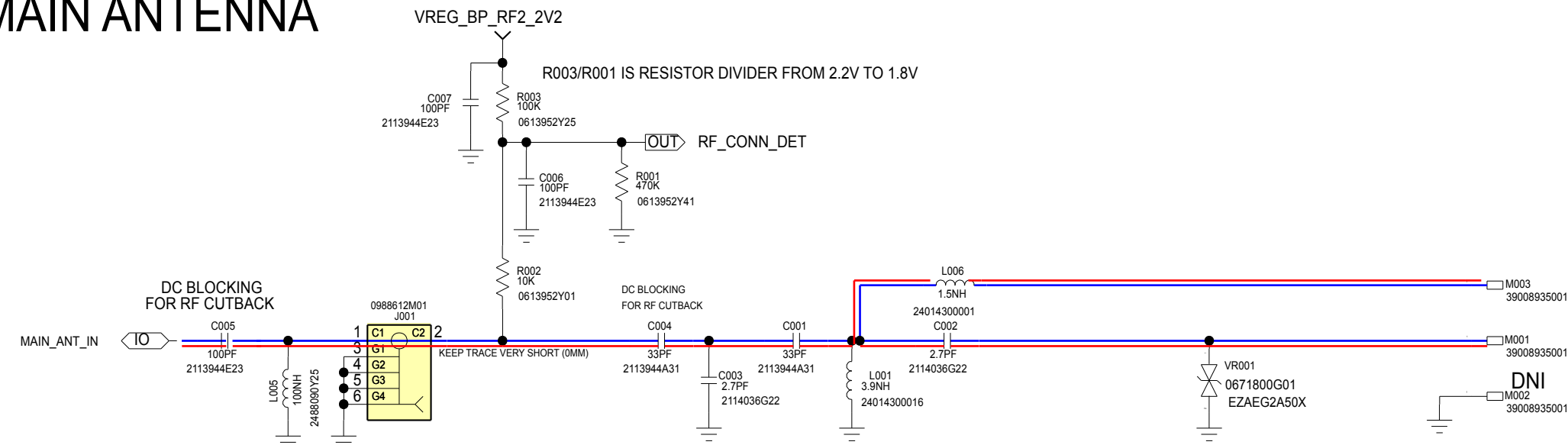


REFERENCE DESIGNATOR LEGEND

6100-6109: SWITCHING POWER SUPPLY
6110-6129: SUPPLY DISTRIBUTION & BYPASSING
6130-6139: CRYSTAL OSCILLATOR & BANDGAP
6140-6149: 2.4 GHZ BLUETOOTH/WLAN
6150-6159: 5 GHZ WLAN

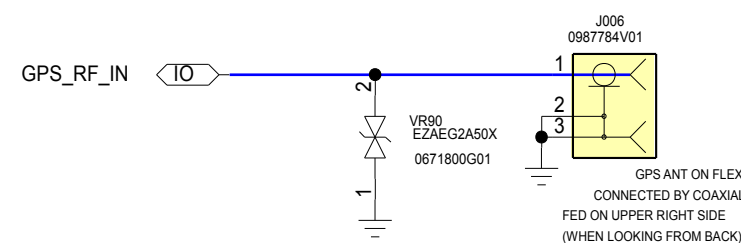
ANTENNAS

MAIN ANTENNA



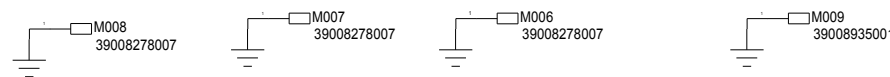
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GPS ANTENNA



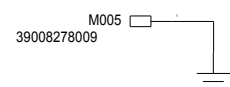
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PCB TO CHASSIS (BATT FLOOR) GND CONTACTS ON FRONT (TOP) HOUSING CHASSIS



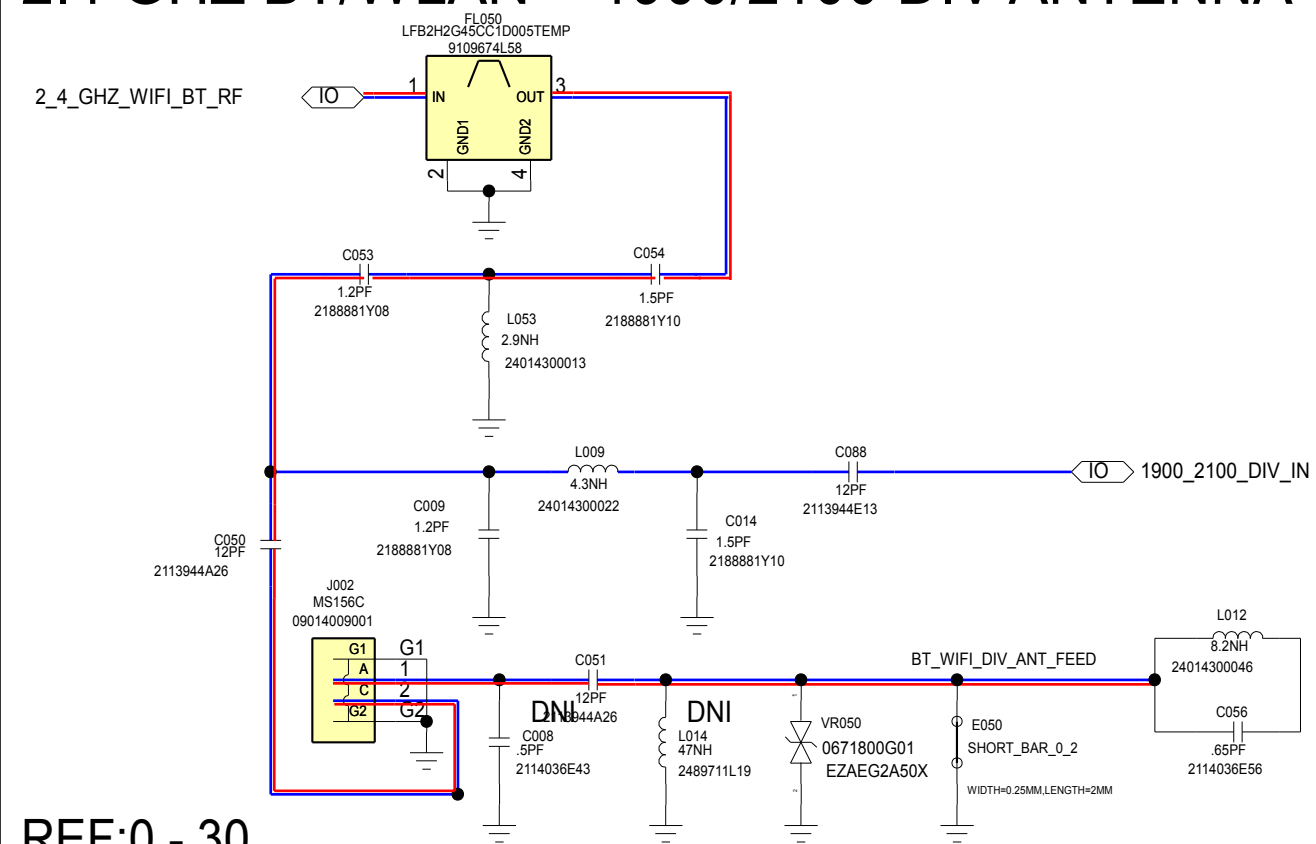
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ON REAR HOUSING CHASSIS



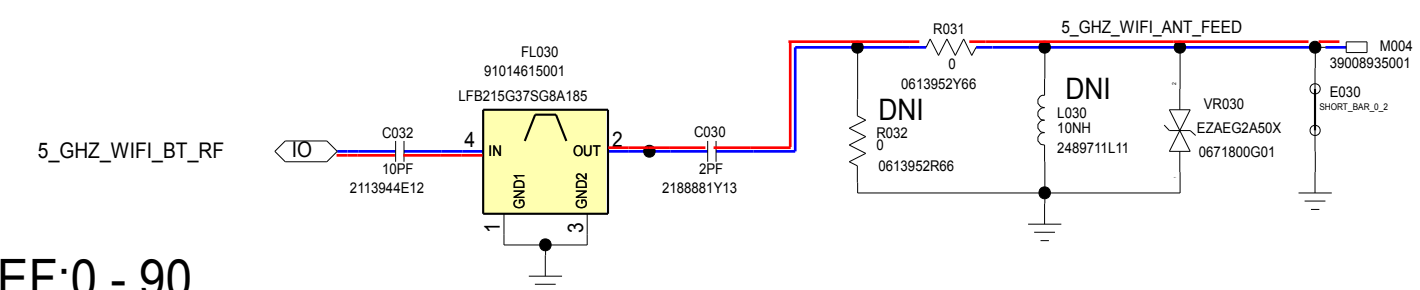
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2.4 GHZ BT/WLAN + 1900/2100 DIV ANTENNA



REF:0 - 30

5 GHZ WIFI ANTENNA

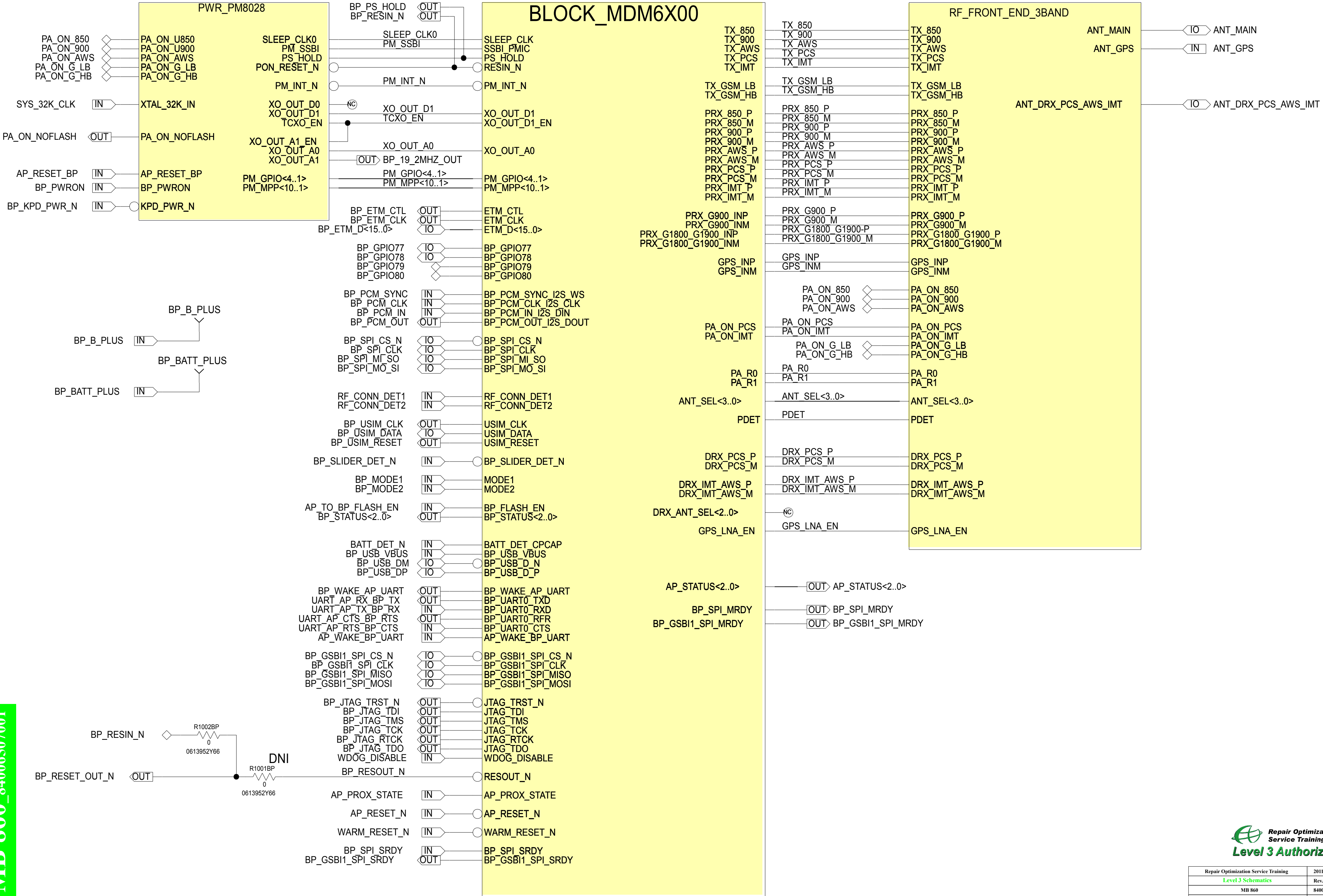


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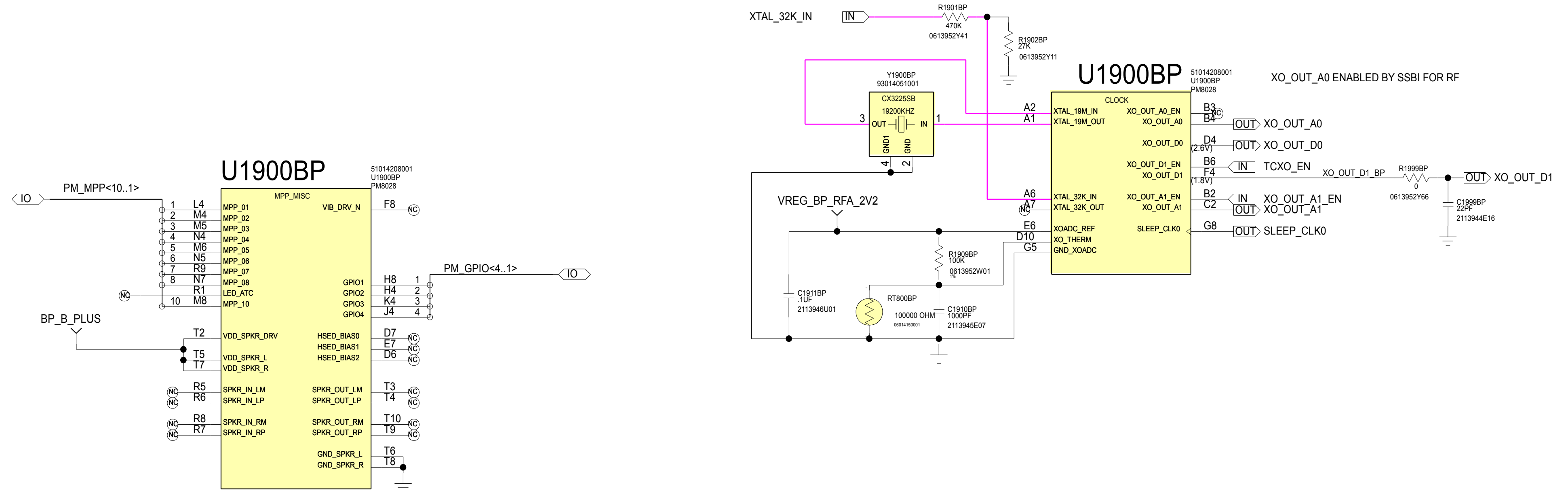
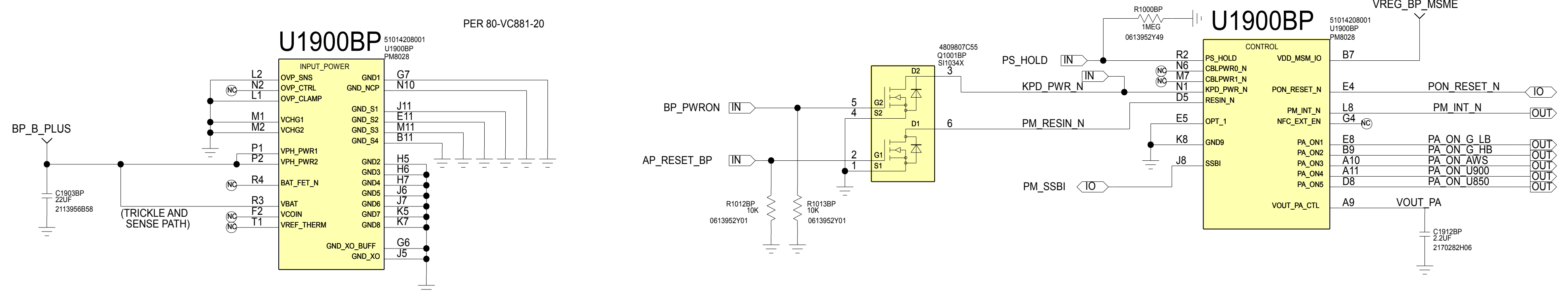
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MDM6X00 BP_VM

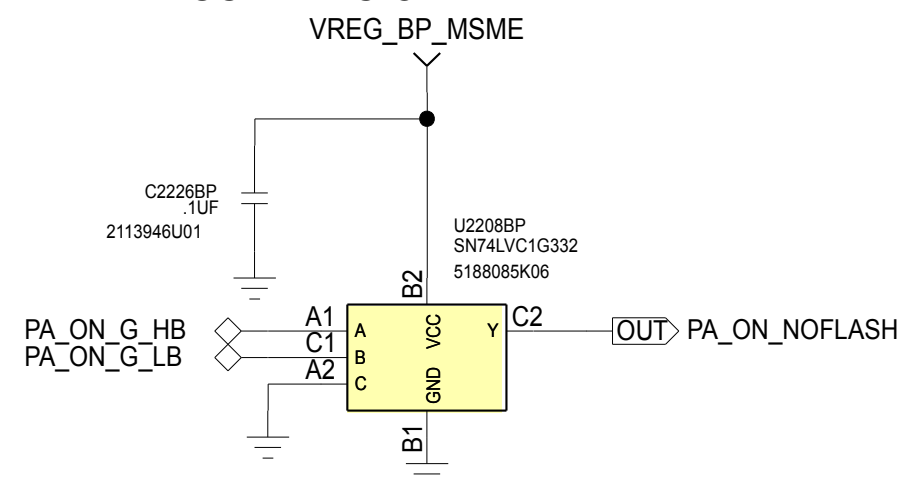
V0.6 2/4/2010



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FLASH MASK TO DISABLE FLASH WHEN GSM PA IS ON



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MB 860_84006507001

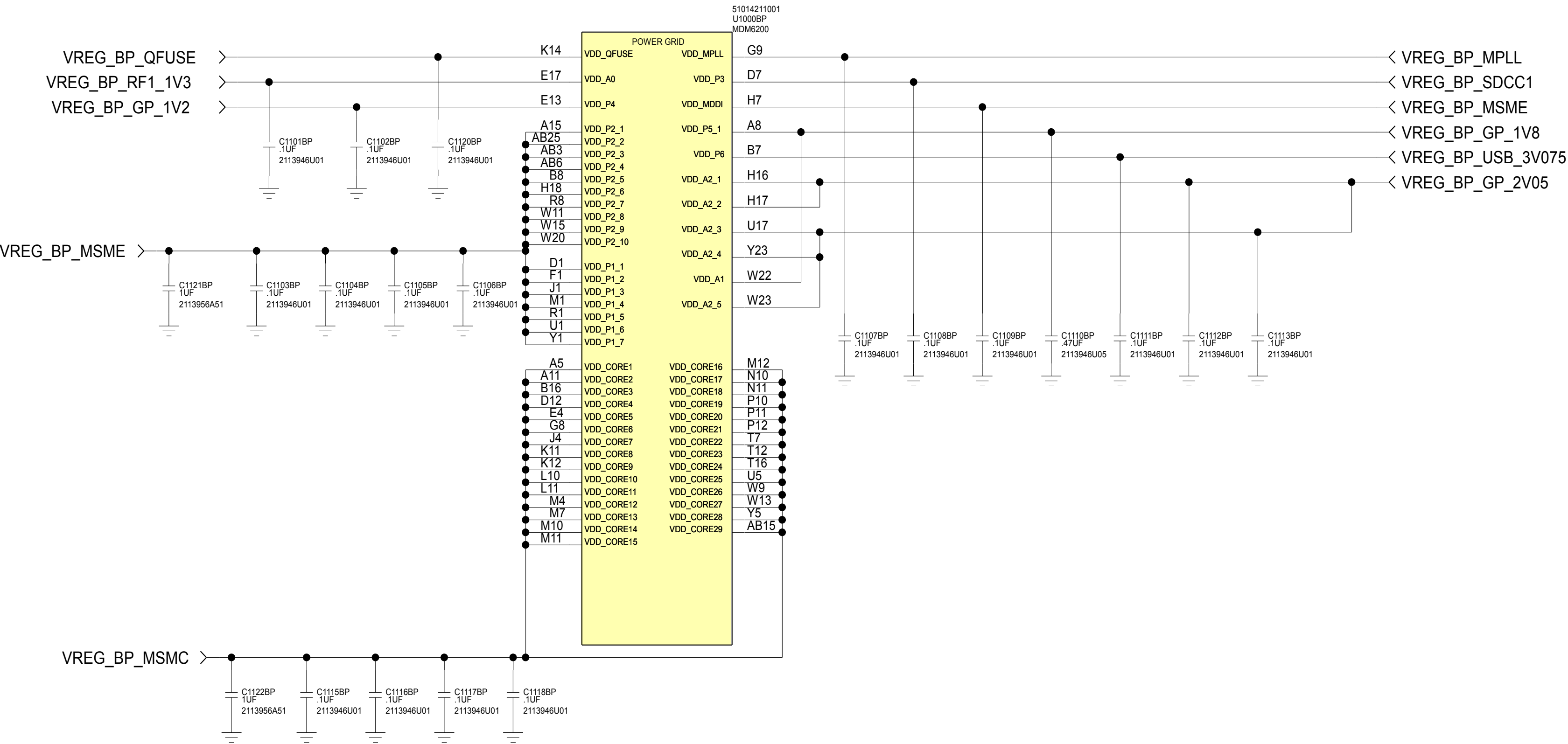
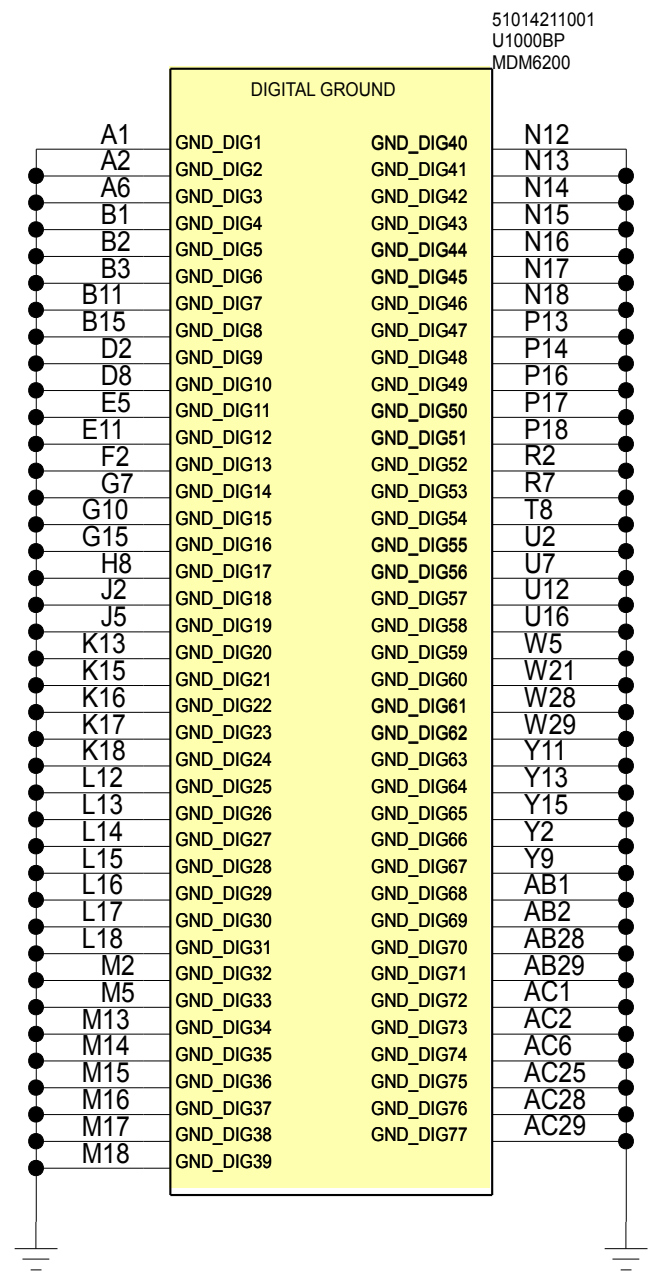


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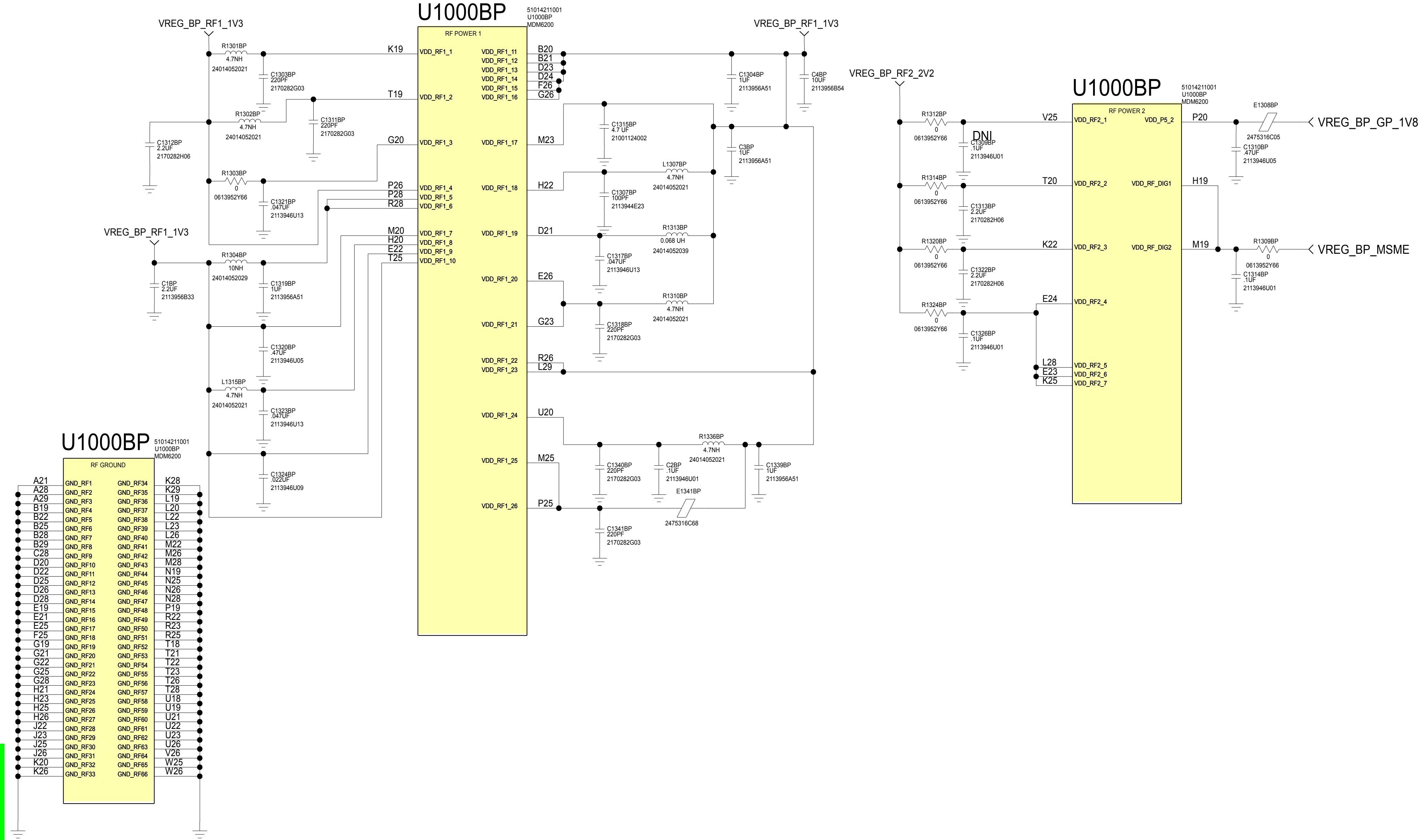


MDM POWER 1/2



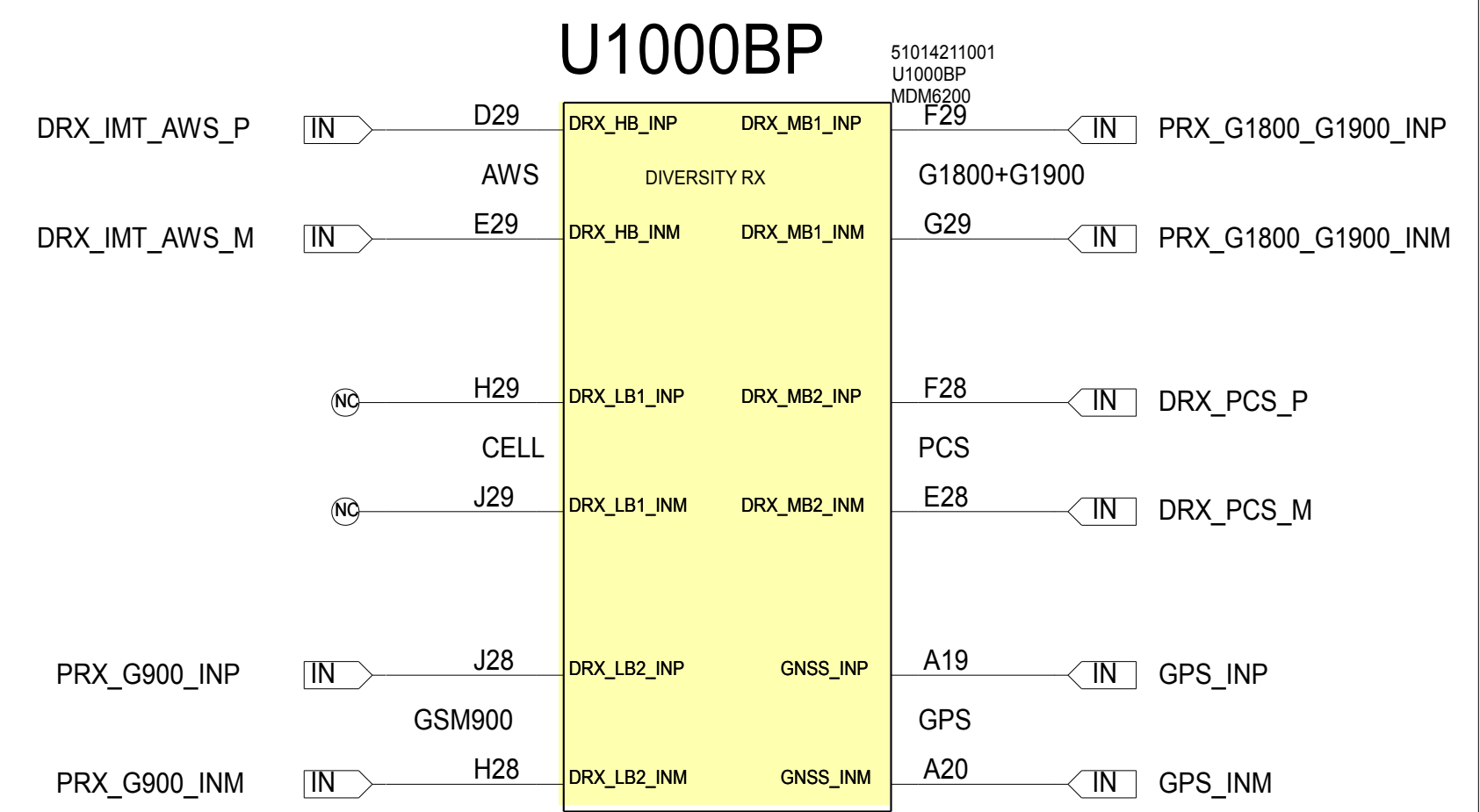
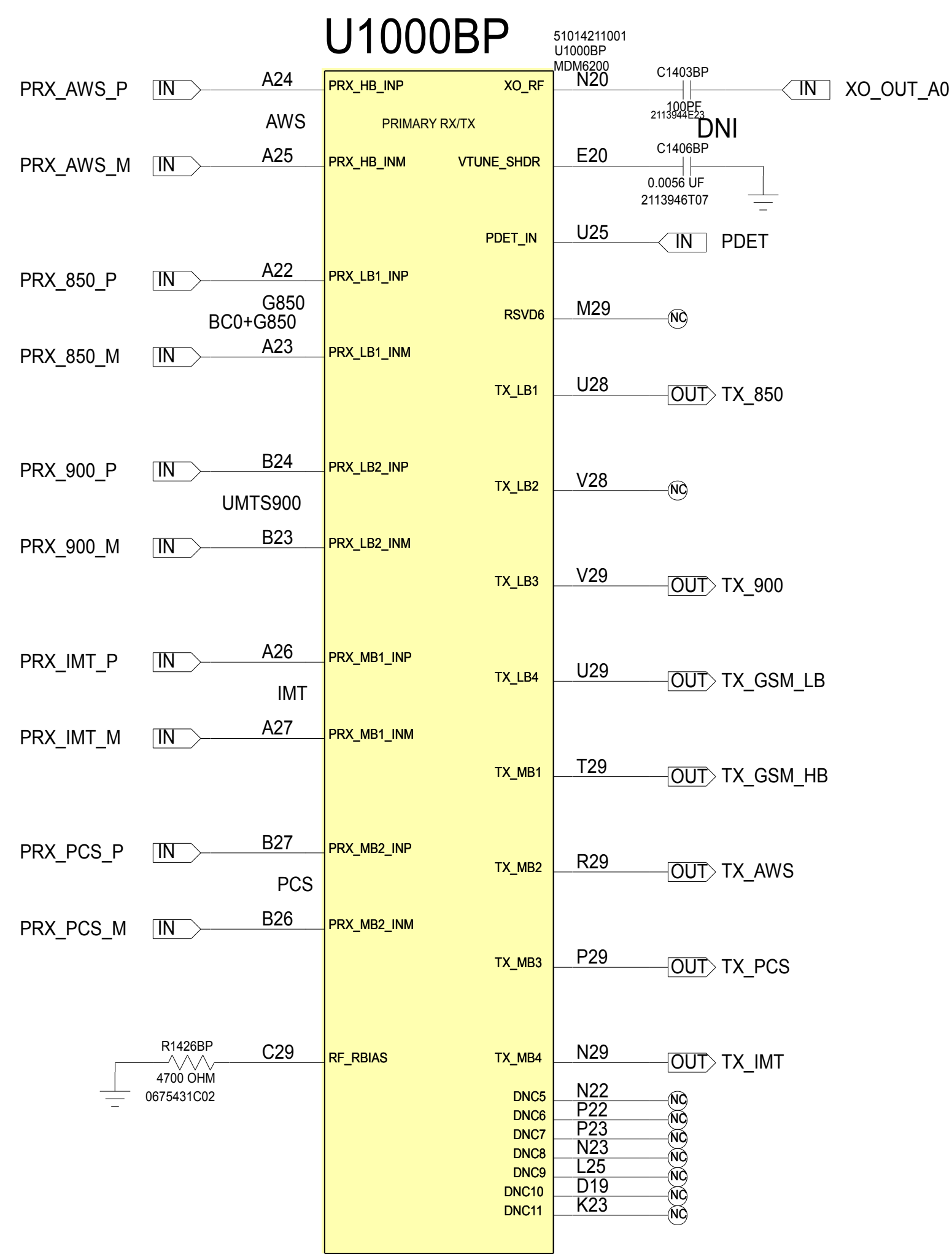
MB 860_84006507001

MDM POWER 2/2



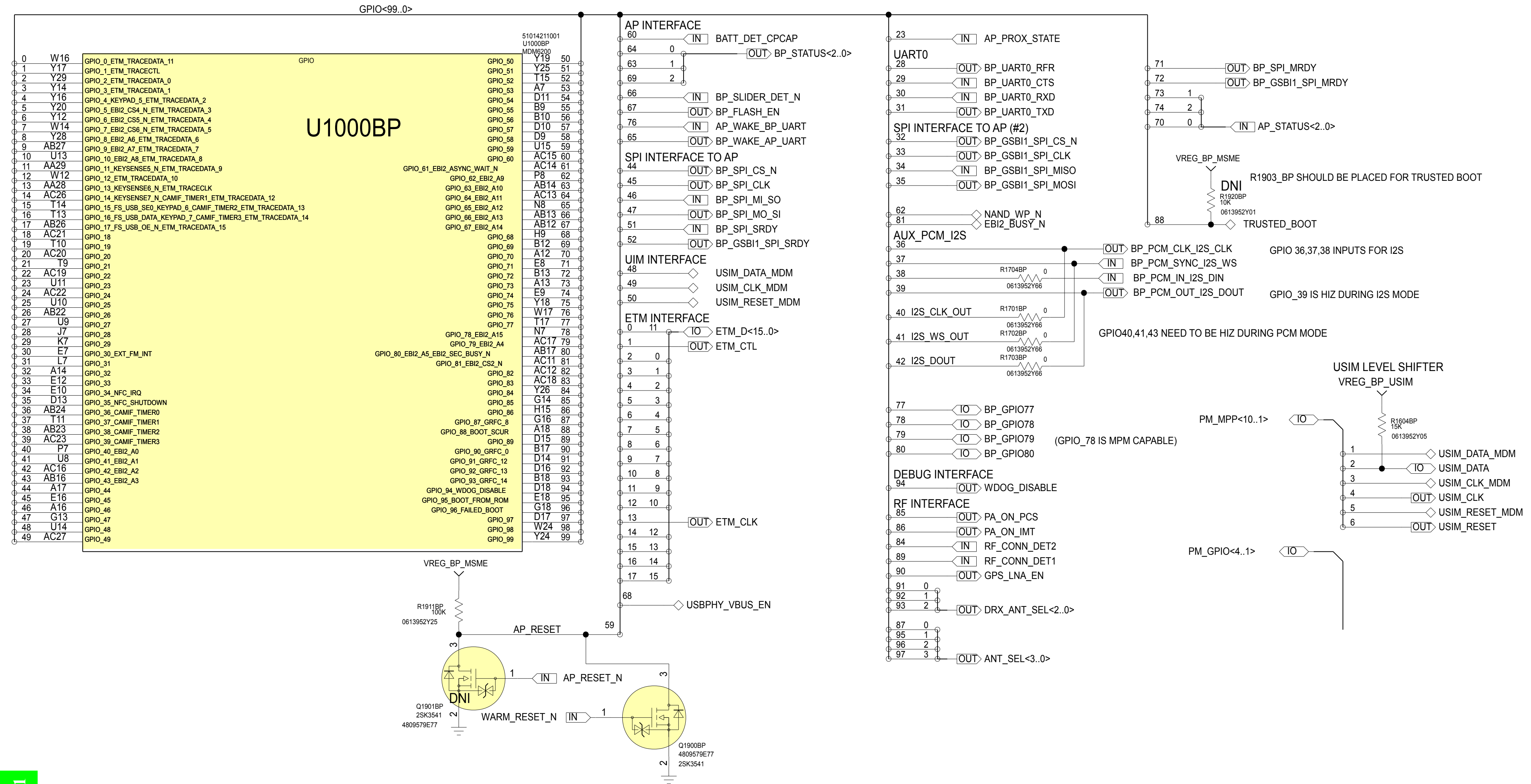
MB 860_84006507001

MDM RF IO



MB 860_84006507001

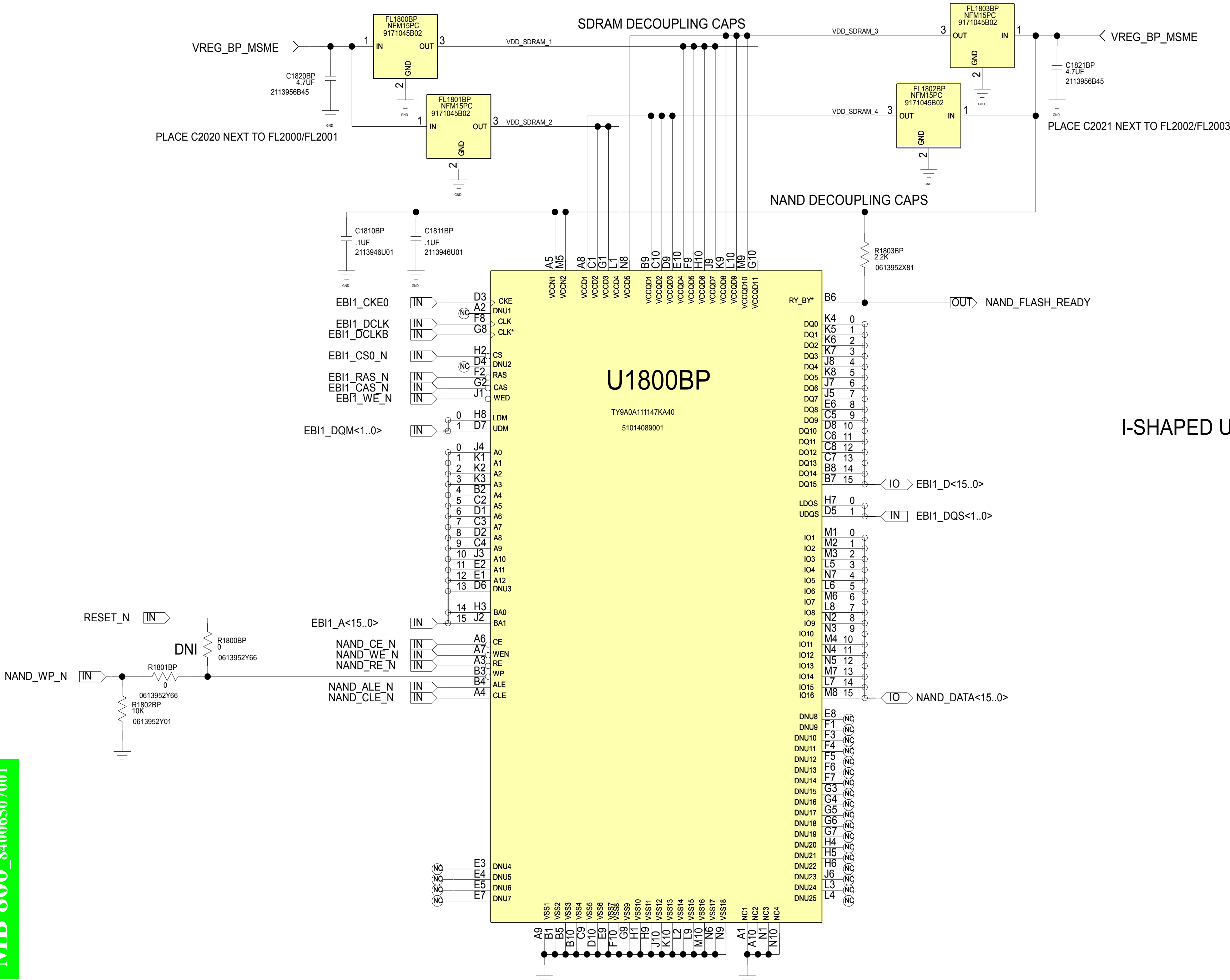
MDM GPIO



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MEMORY

1GBIT NAND/ 512MBIT DDR SDRAM (MONOLITHIC DDR SYMBOL)
TOSHIBA TY9A0A111147KA40 1GBIT NAND / 512MBIT X16DDR



I-SHAPED UNDERFILM

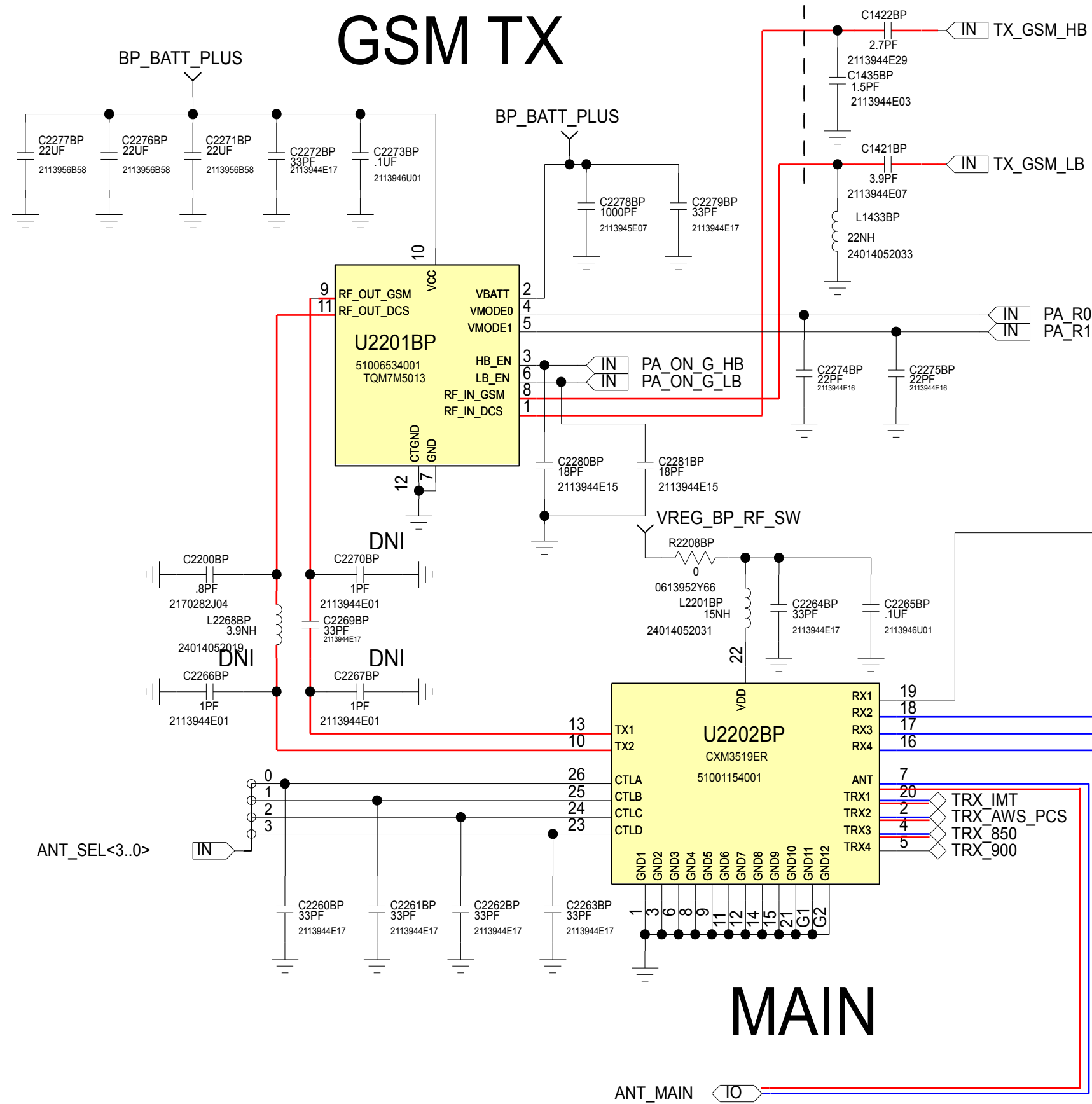
MB 860_84006507001

MB 860_84006507001

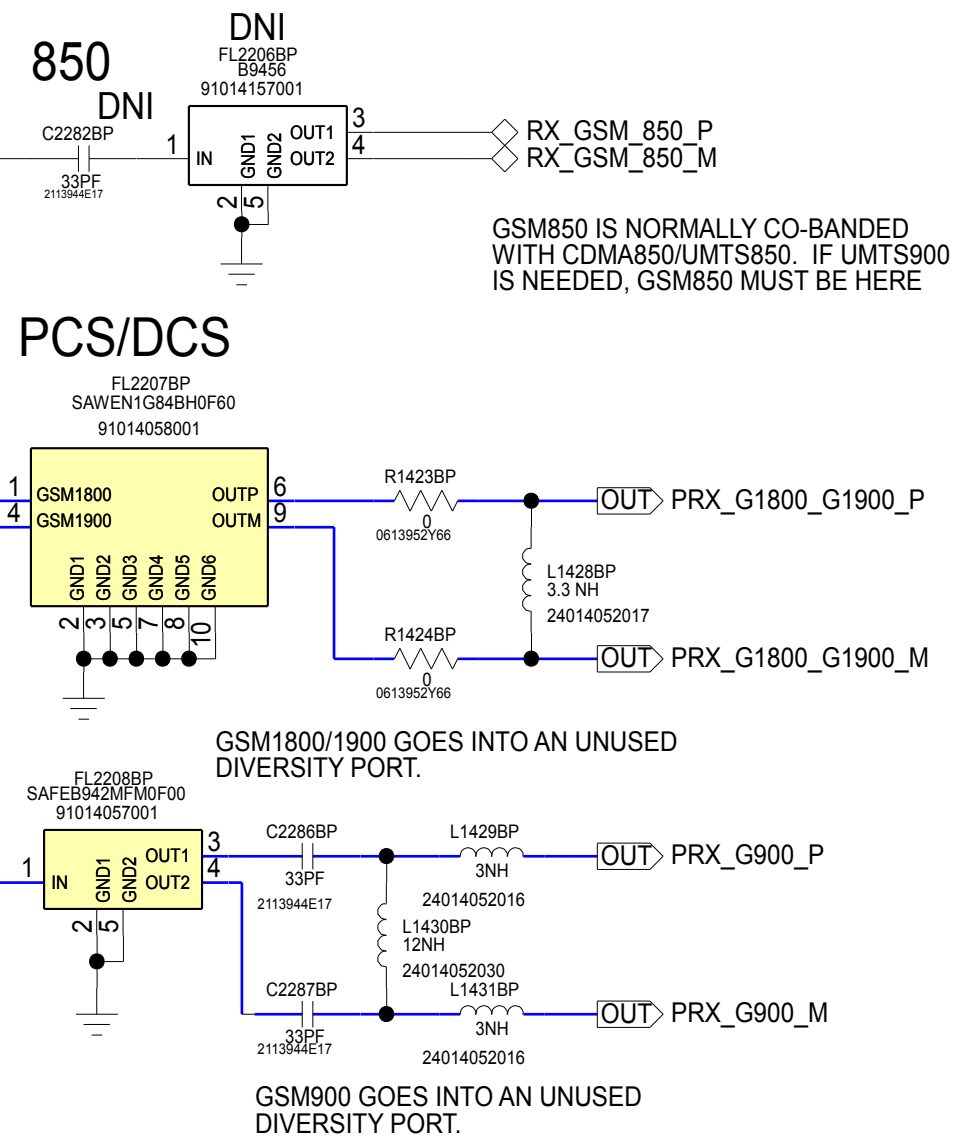


RF FRONT END

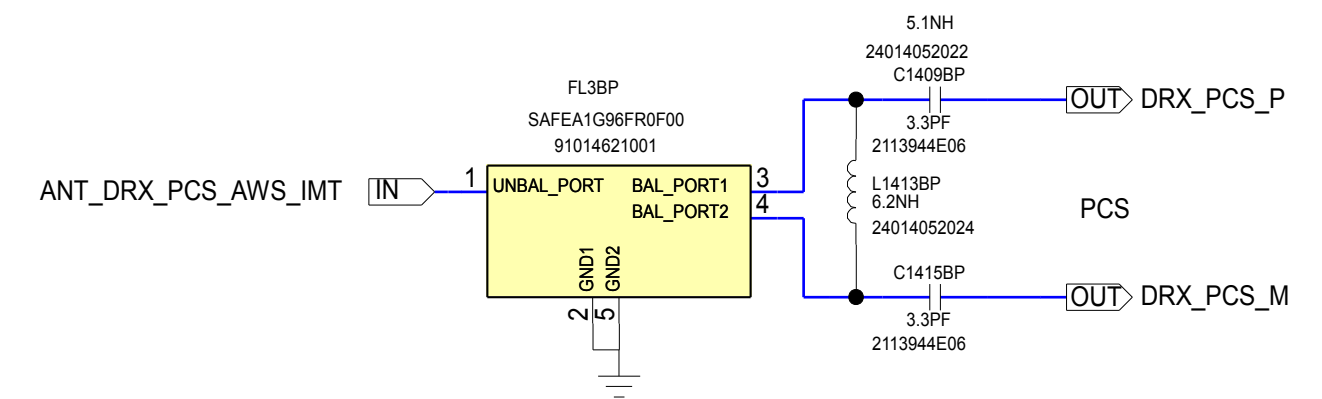
GSM TX



GSM RX

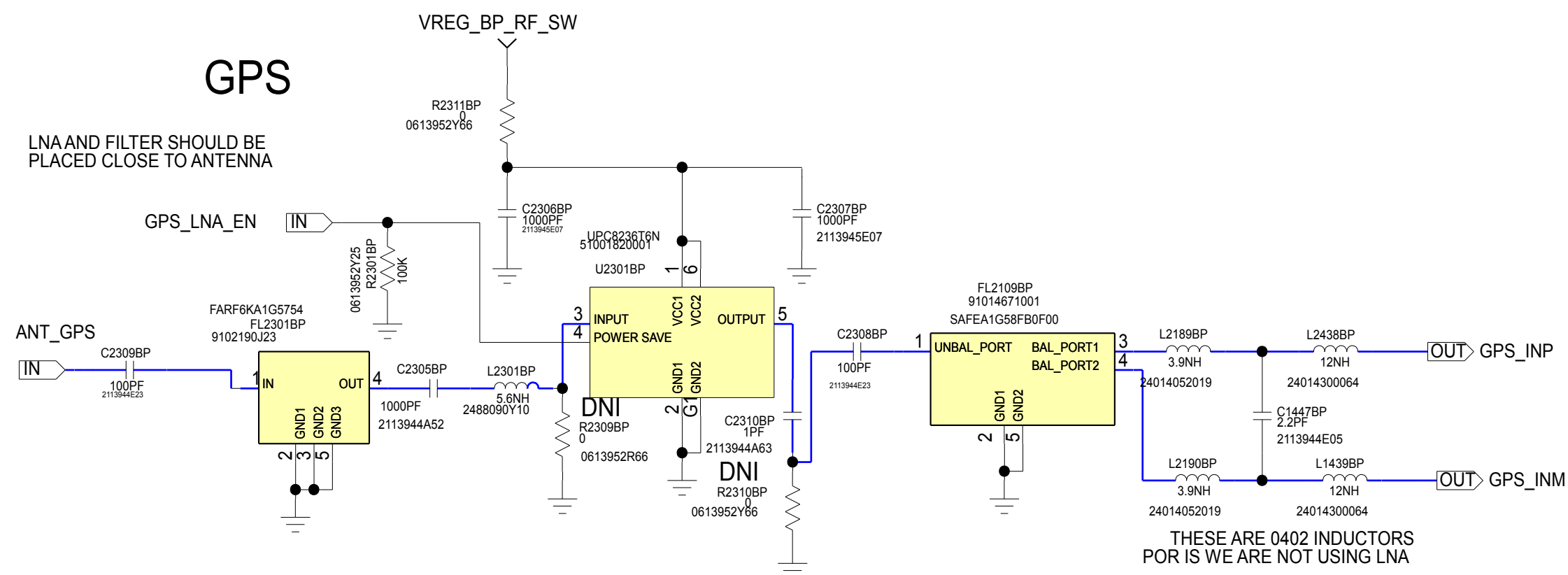


DIVERSITY



GPS

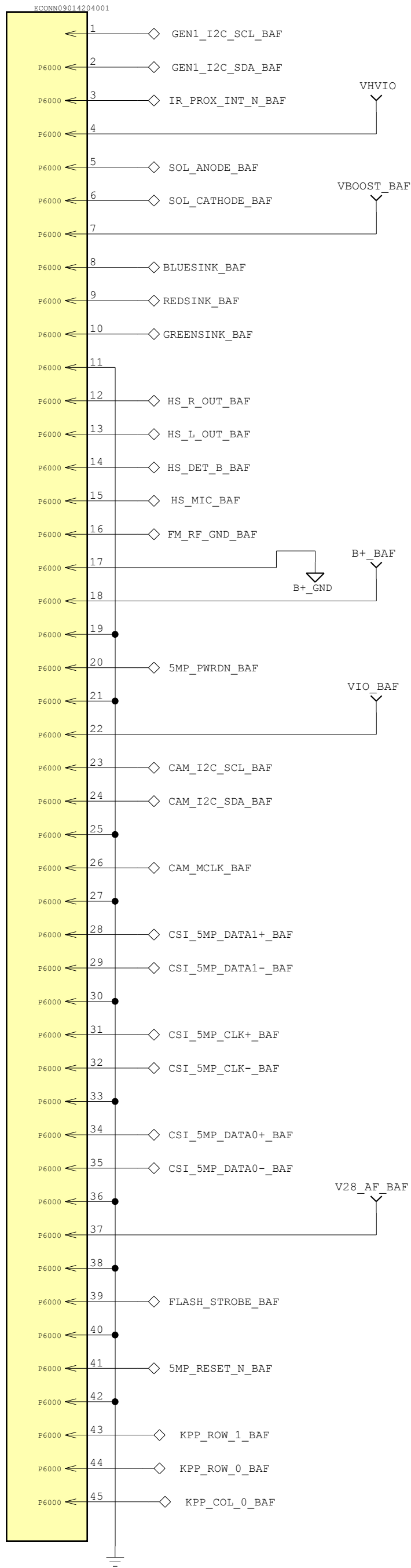
LNA AND FILTER SHOULD BE PLACED CLOSE TO ANTENNA



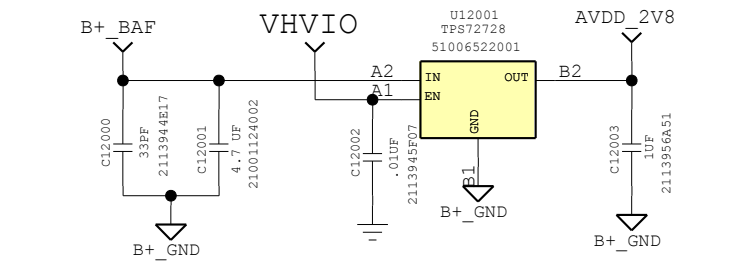
THESE ARE 0402 INDUCTORS
POR IS WE ARE NOT USING LNA

MAIN FLEX

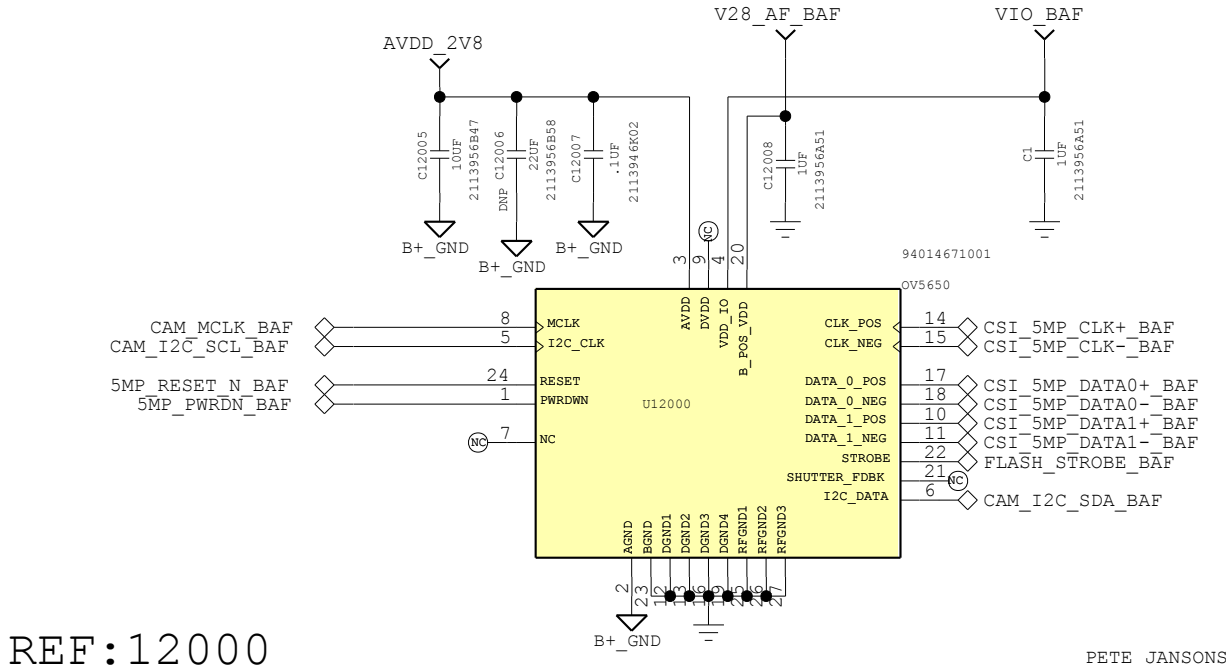
P6000



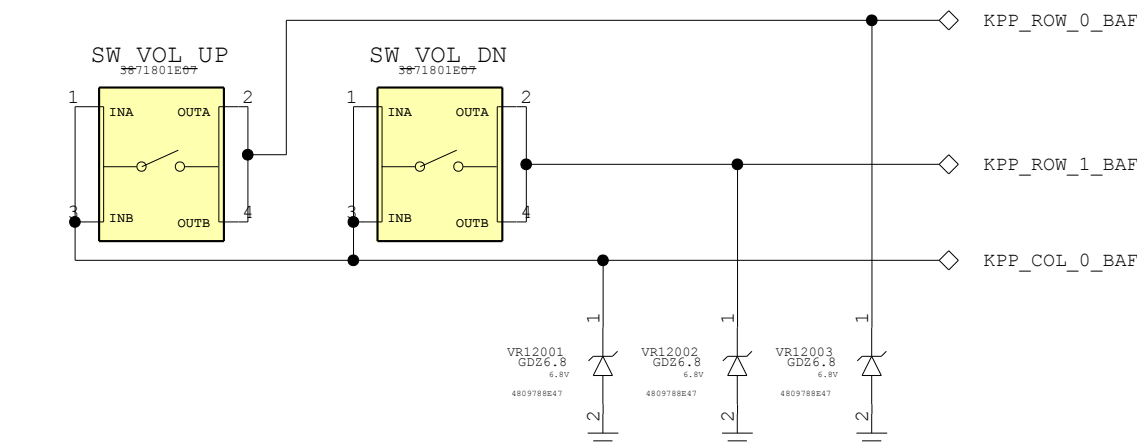
IMAGER REGULATOR



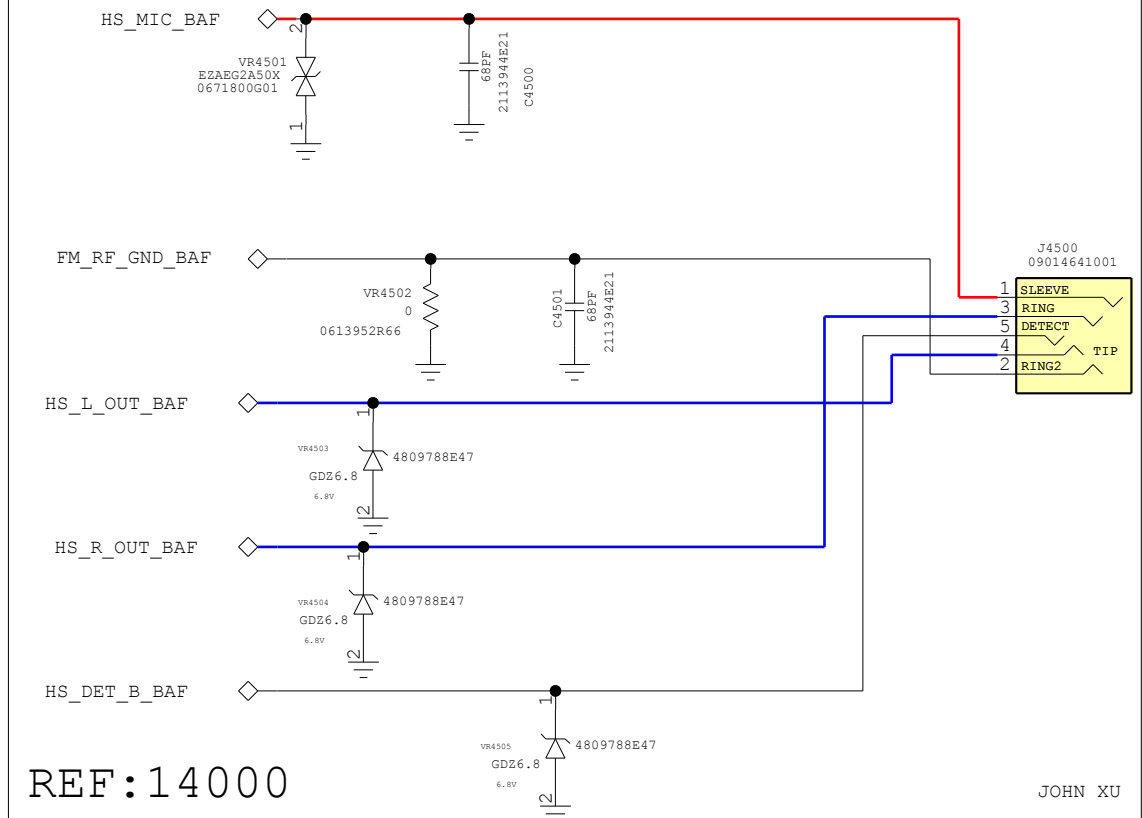
5MP IMAGER



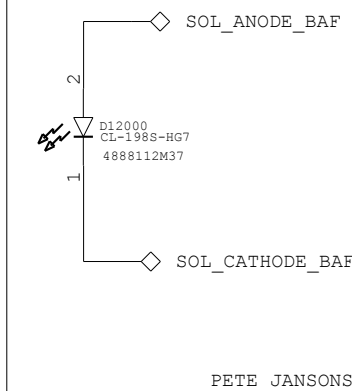
VOLUME SIDE KEYS



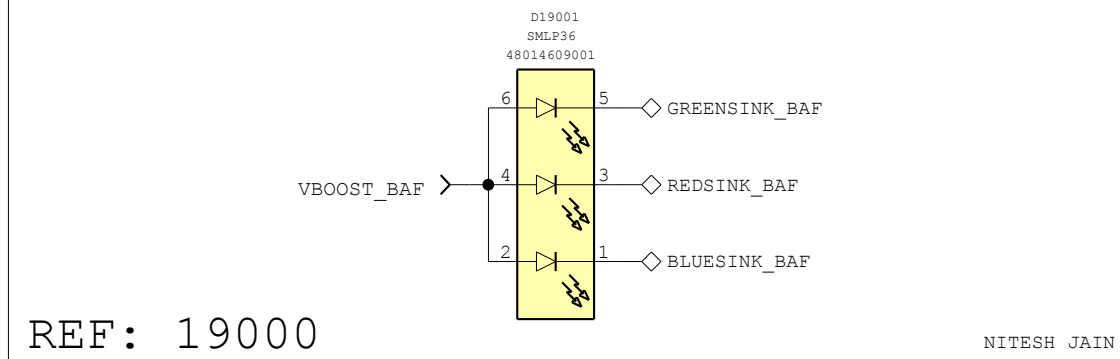
3.5MM HSJ



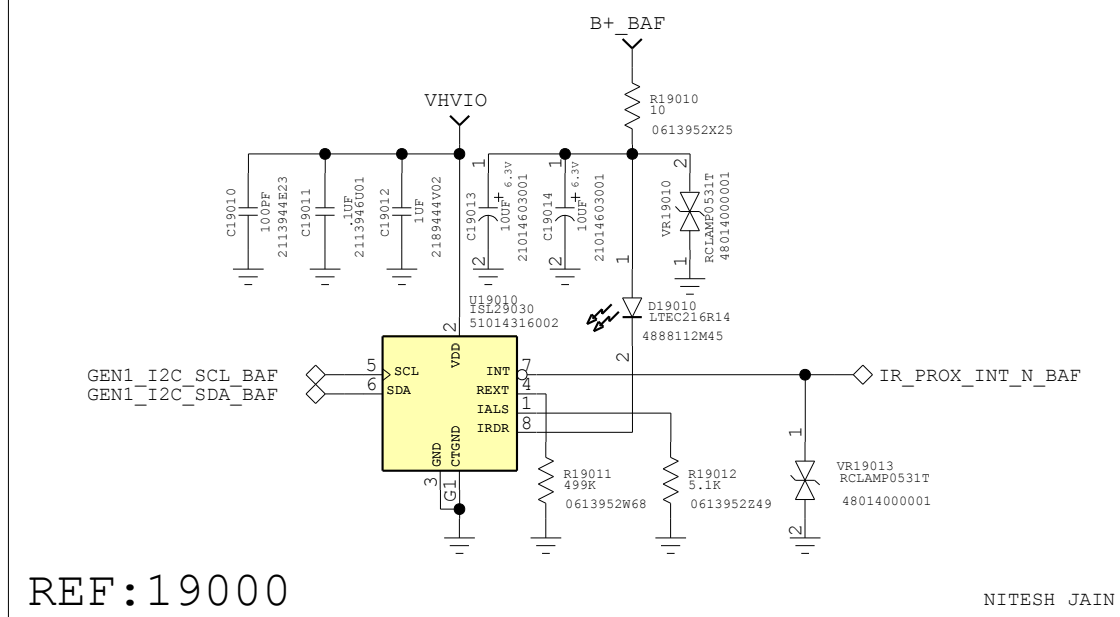
SOL LED



TRI-COLOR LED

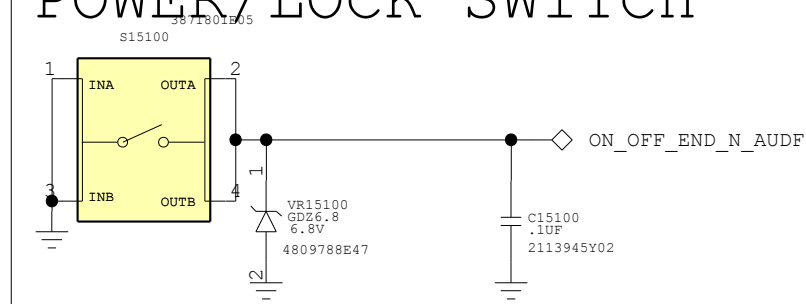


PROX SENSOR/ALS

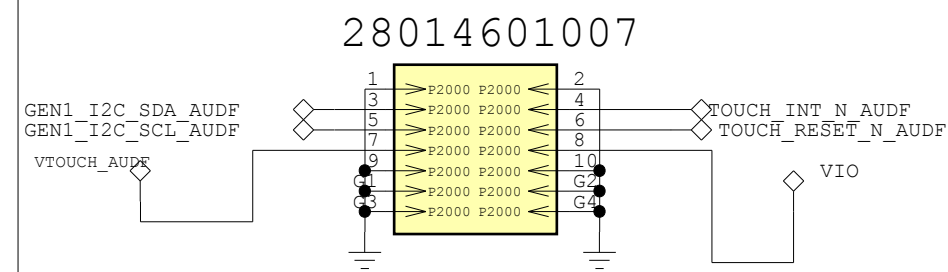


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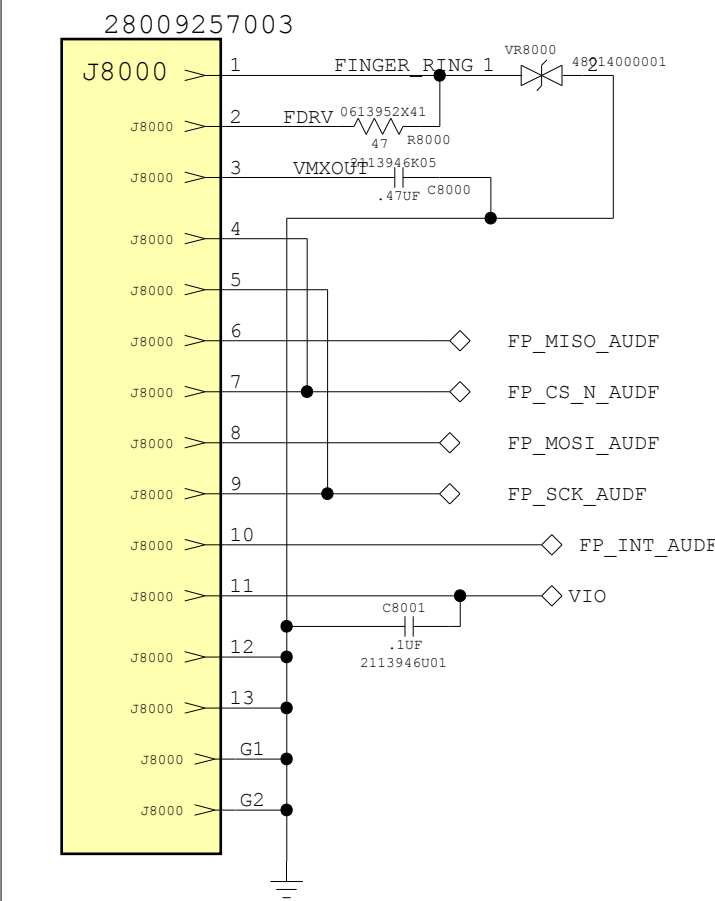
POWER/LOCK SWITCH



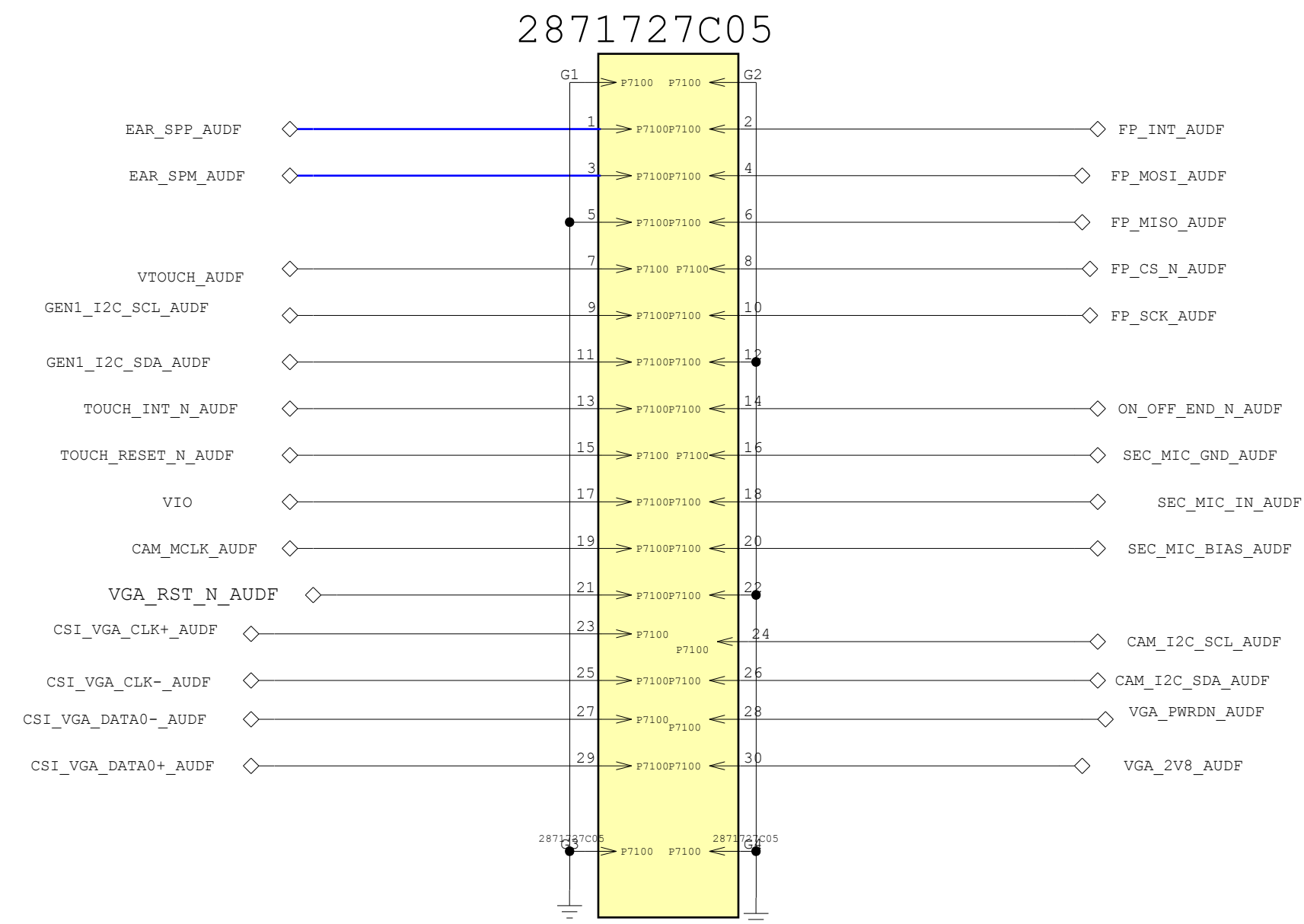
ITO FLEX CONNECTOR



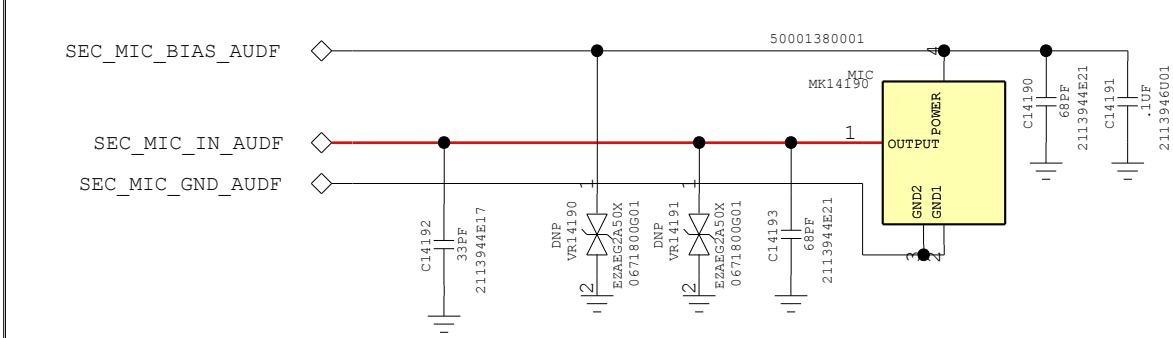
FINGERPRINT SENSOR



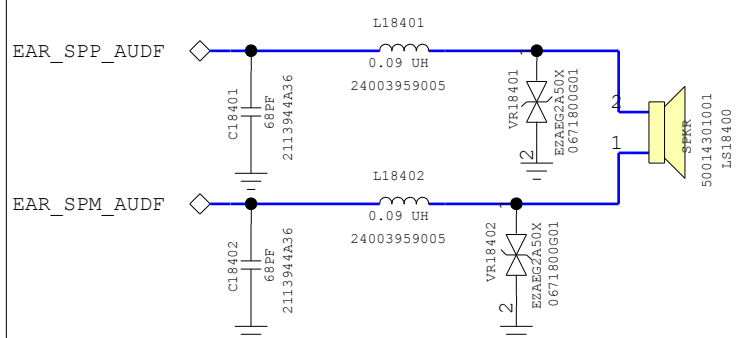
30 PIN B2B CONNECTOR



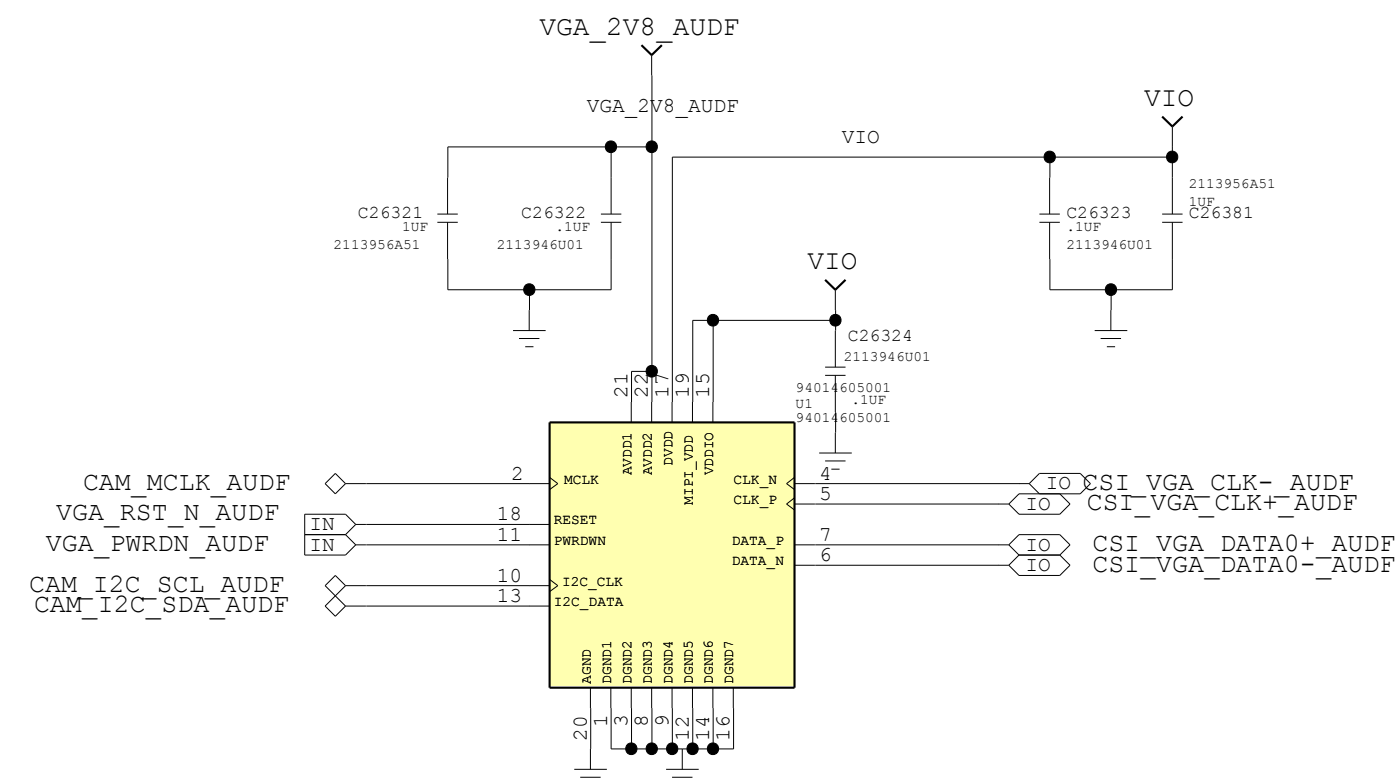
SECONDARY MIC



EARPIECE RECEIVER

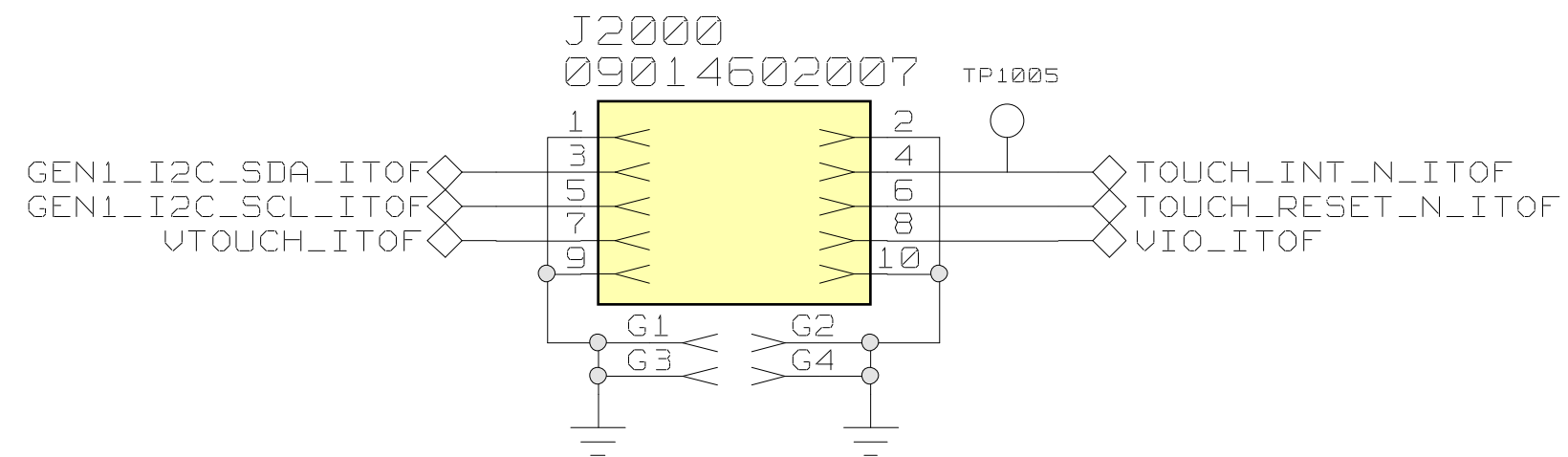
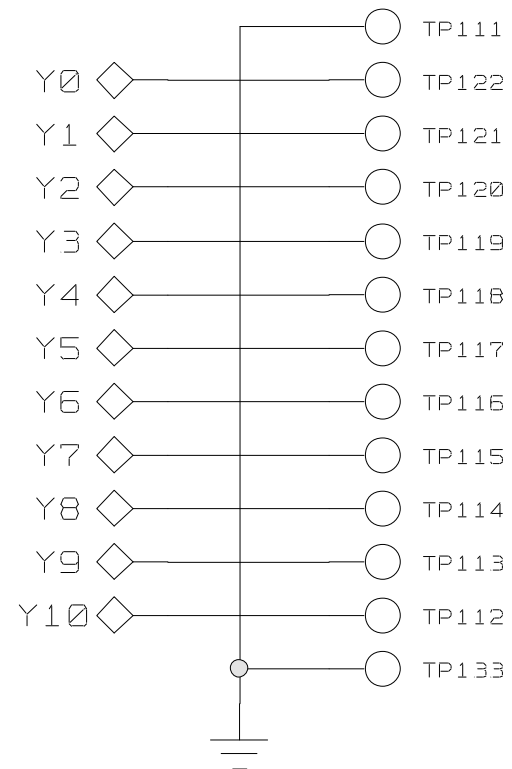
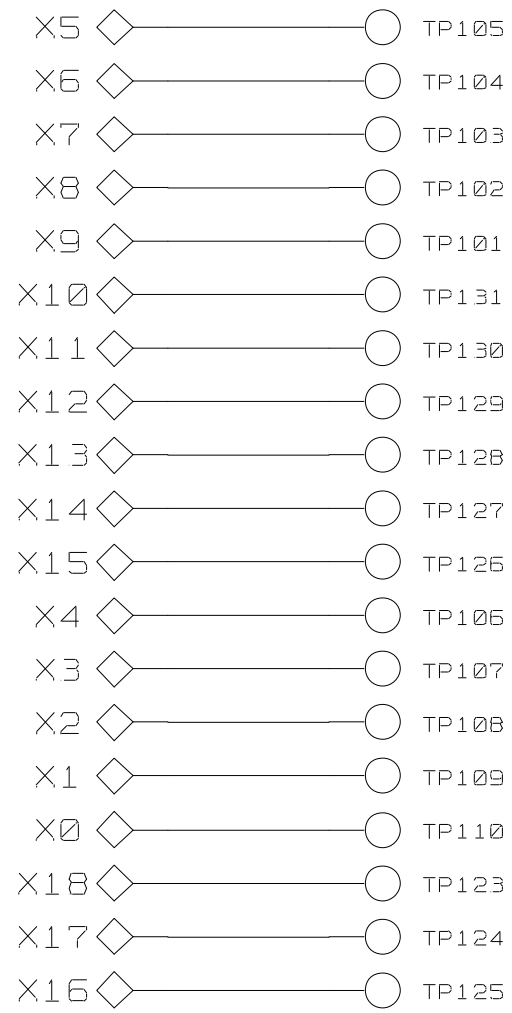
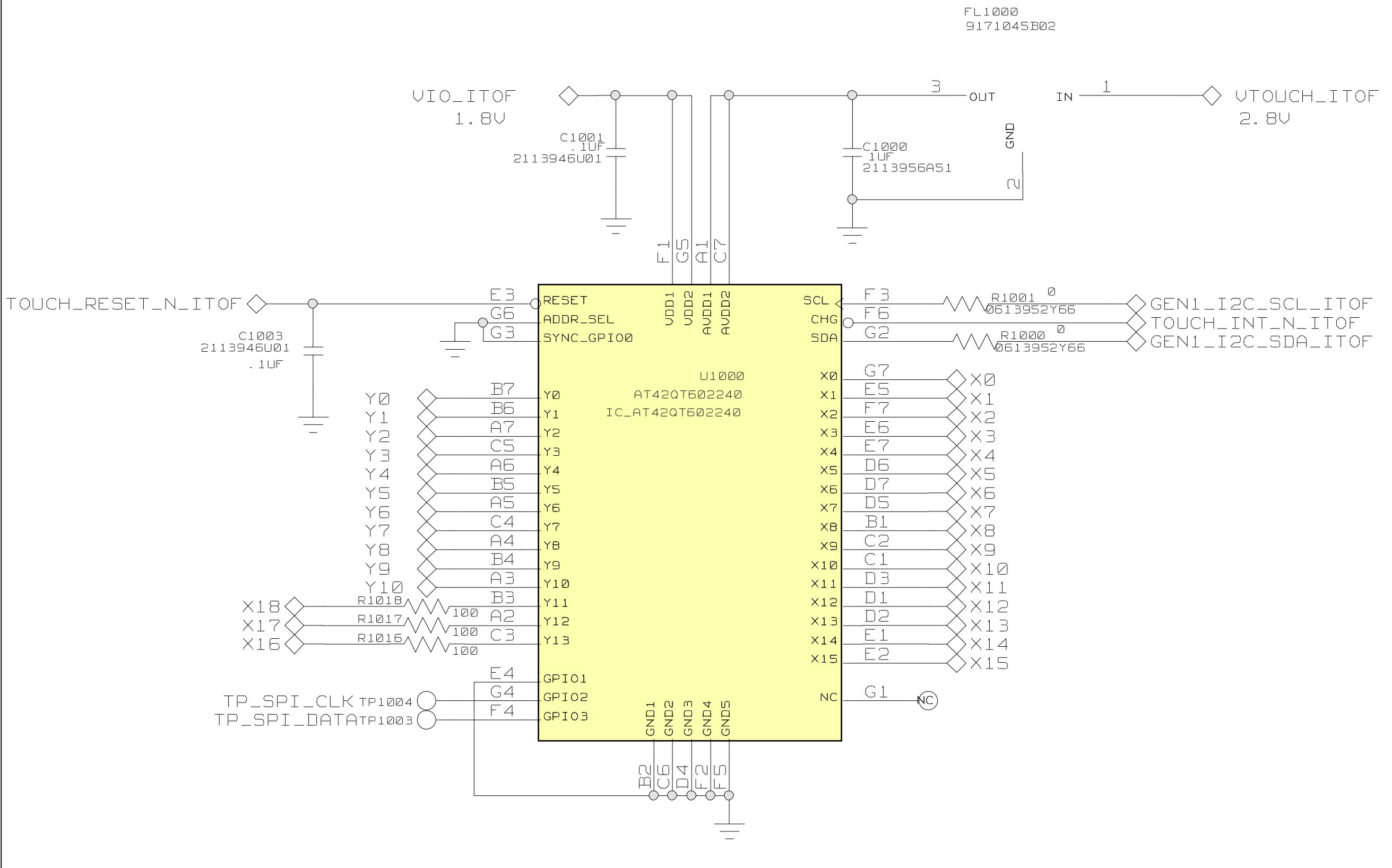


VGA 5X5X3



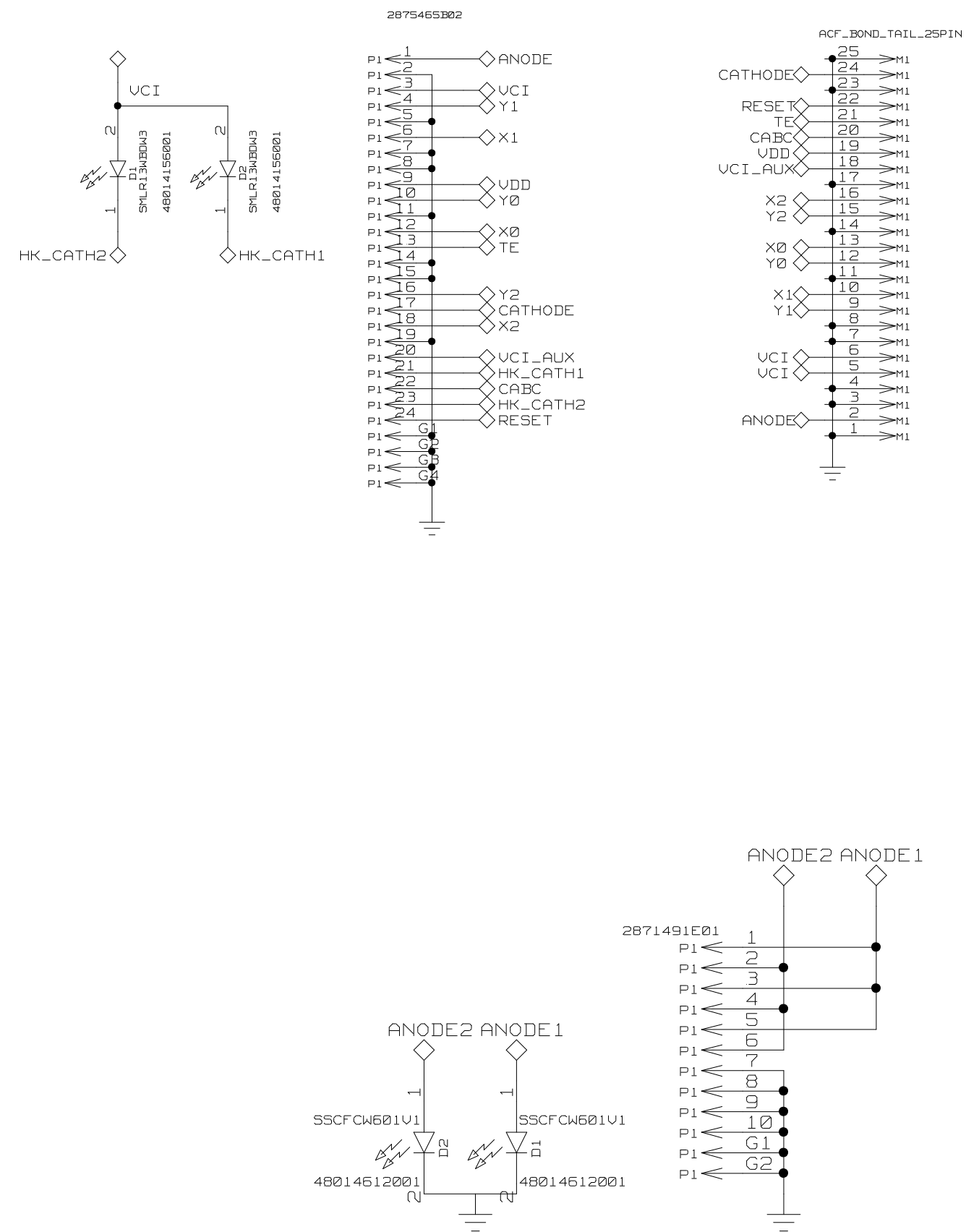
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CAP-TOUCH IC



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