

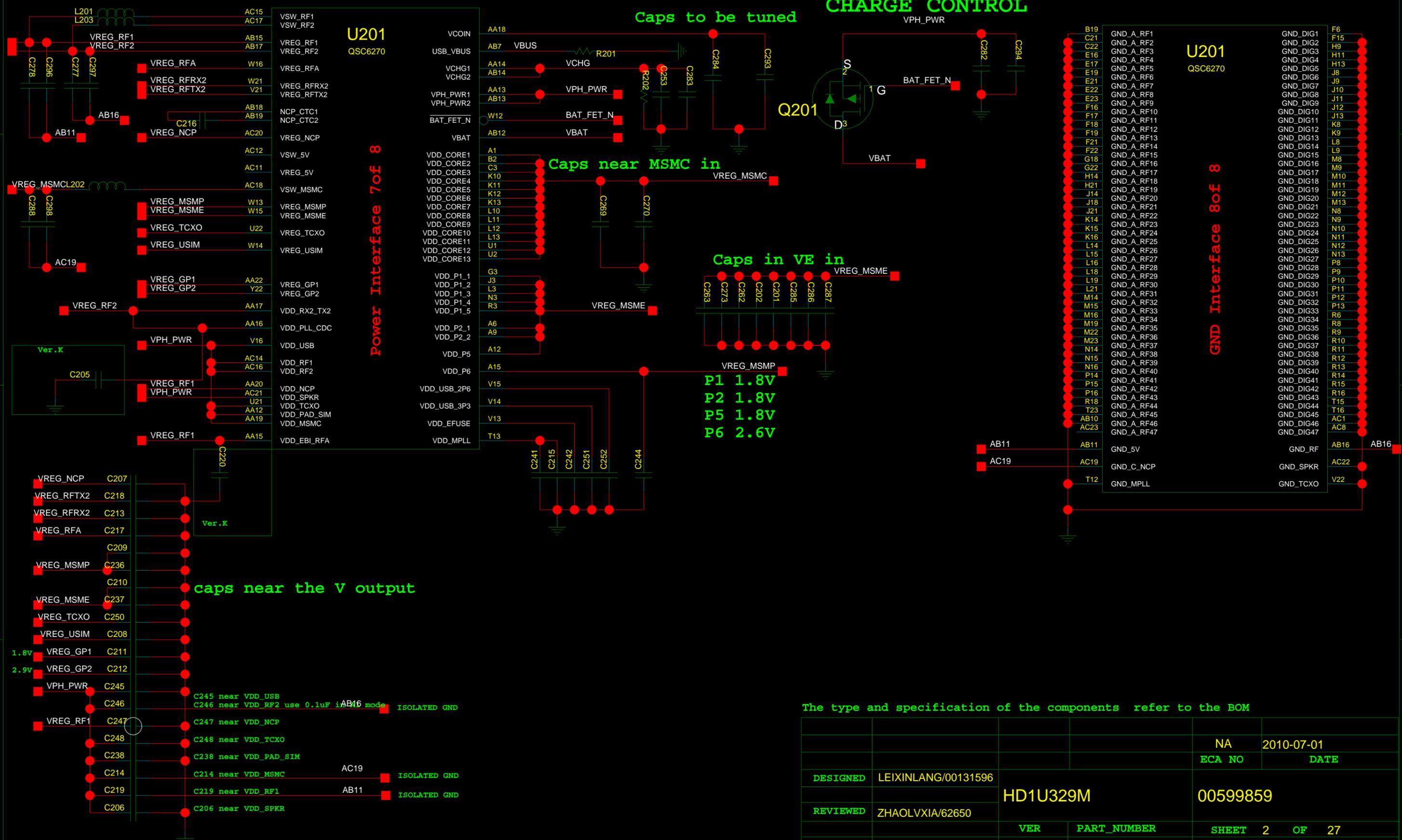


# 2. QSC6270 POWER/GROUND

See more information in sheet 16

## CHARGE CONTROL

## QSC6270's GND



Power Interface 7 of 8

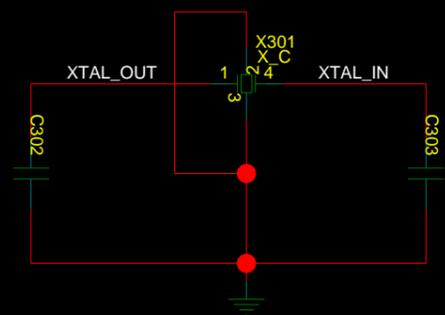
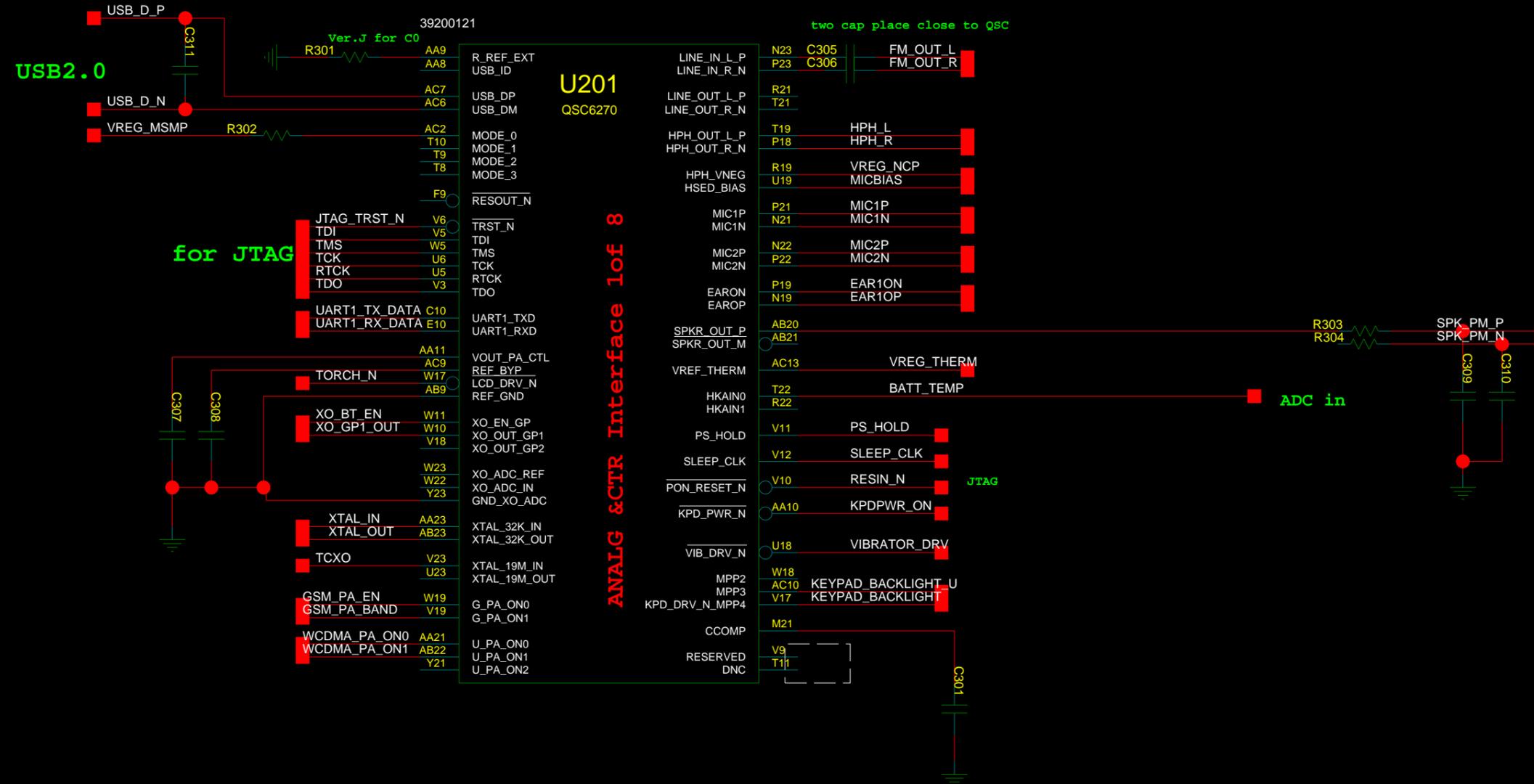
GND Interface 8 of 8

- P1 1.8V
- P2 1.8V
- P5 1.8V
- P6 2.6V

The type and specification of the components refer to the BOM

|          |                     |          |             |                      |
|----------|---------------------|----------|-------------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | NA          | 2010-07-01           |
| REVIEWED | ZHAOLVXIA/62650     |          | ECA NO      | DATE                 |
|          |                     | VER      | PART_NUMBER | SHEET 2 OF 27        |
|          |                     | 03020WYN |             | HUAWEI TECH CO.,LTD. |

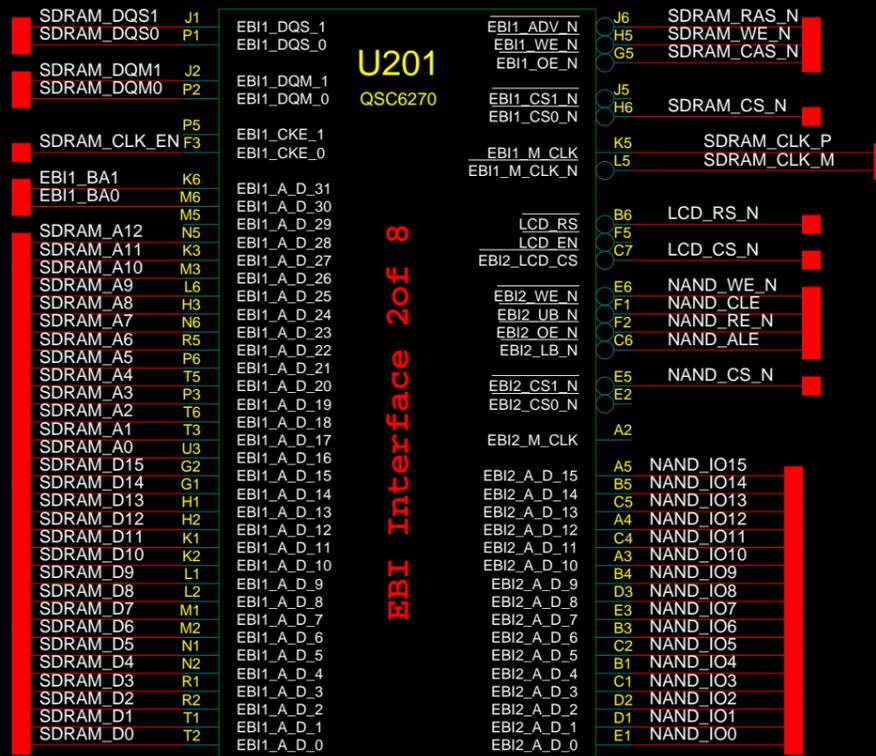
# 3. QSC6270 Analog/CFG/CLOCK and RF Interface



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 3 OF 27        |            |
|          |                     |          | 03020WYN    | HUAWAI TECH CO.,LTD. |            |

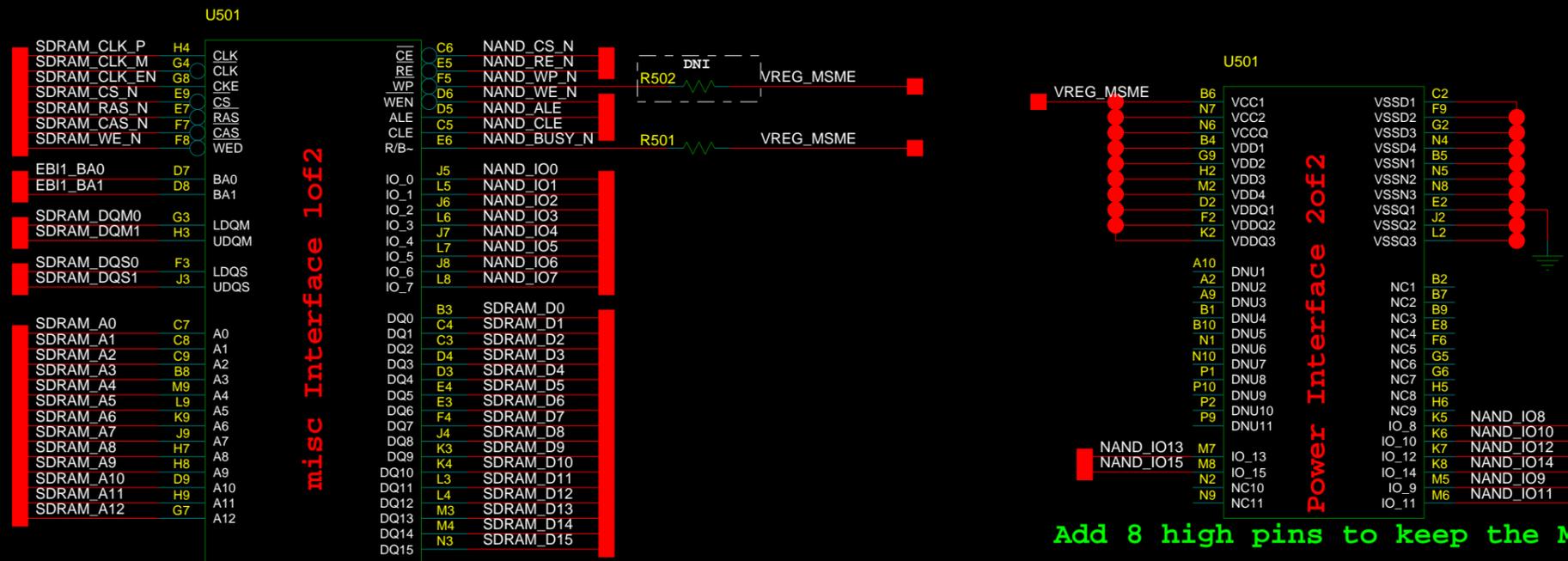
# 4. QSC6270 Memory and LCD Interface



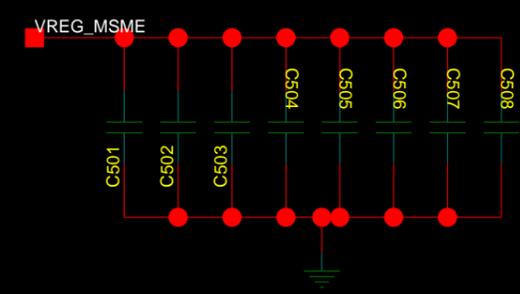
The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 4 OF 27        |            |
|          |                     |          | 03020WYN    | HUAWAI TECH CO.,LTD. |            |

# 5. MEMORY



Caps for memory

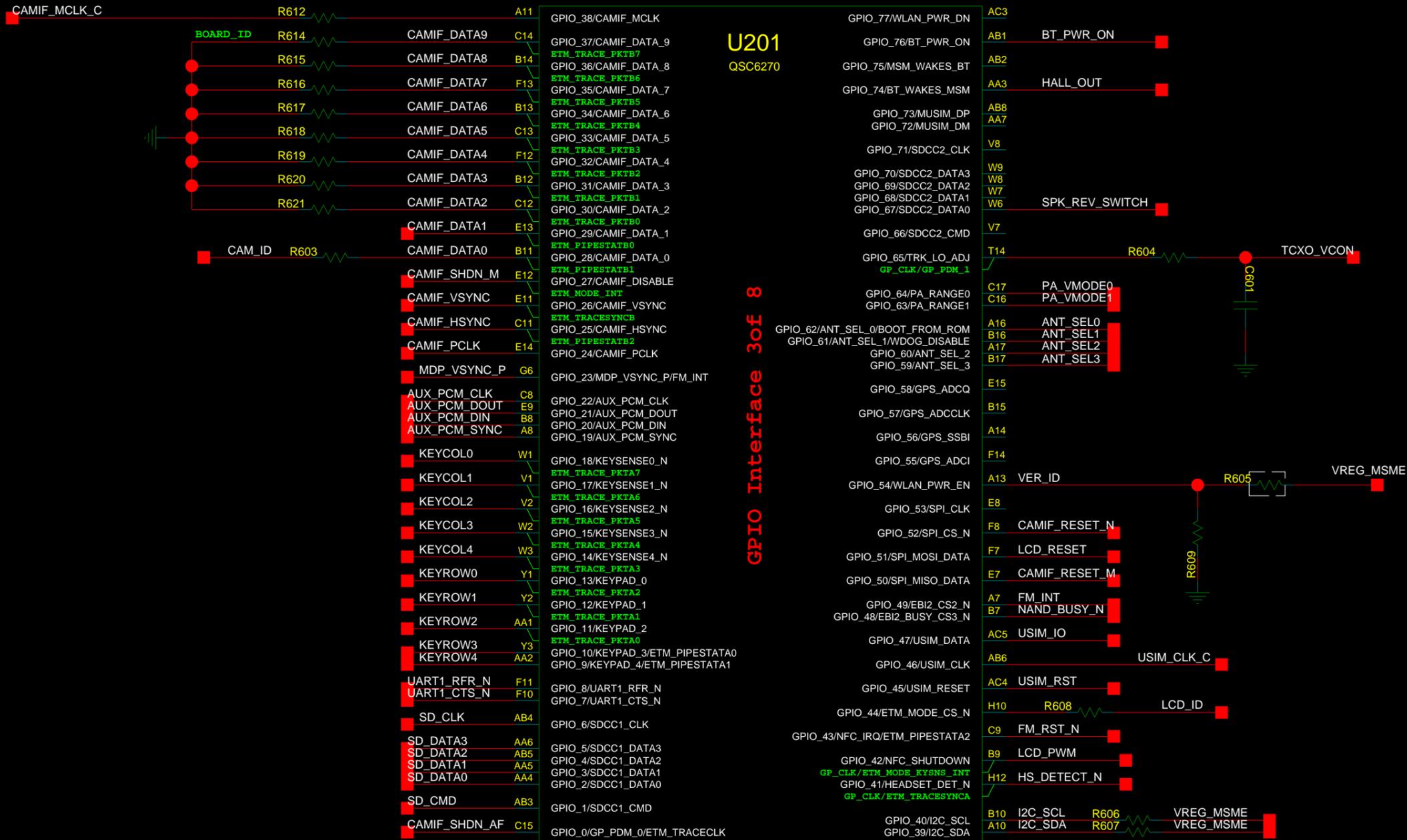


The type and specification of the components refer to the BOM

|          |                     |          |             |                      |
|----------|---------------------|----------|-------------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | NA          | 2010-07-01           |
| REVIEWED | ZHAOLVXIA/62650     |          | ECA NO      | DATE                 |
|          |                     | VER      | PART_NUMBER | SHEET 5 OF 27        |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |

# 6. QSC6270 GPIOs

See more informations in sheet 15



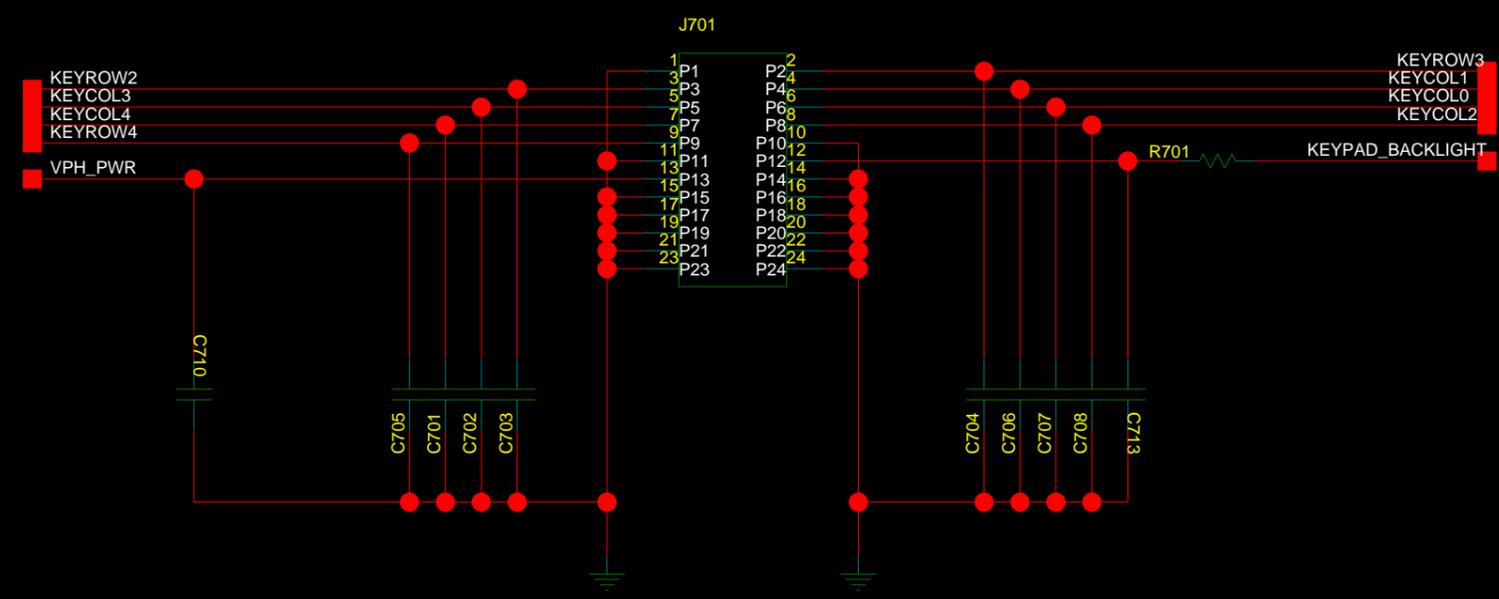
GPIO Interface 3 of 8

The type and specification of the components refer to the BOM

|          |                     |          |             |                      |
|----------|---------------------|----------|-------------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | NA          | 2010-07-01           |
| REVIEWED | ZHAOLVXIA/62650     |          | ECA NO      | DATE                 |
|          |                     | VER      | PART_NUMBER | SHEET 6 OF 27        |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |

# 7. D-Keypad Connector and Flashlight

## Digital Keypad



## Flashlight



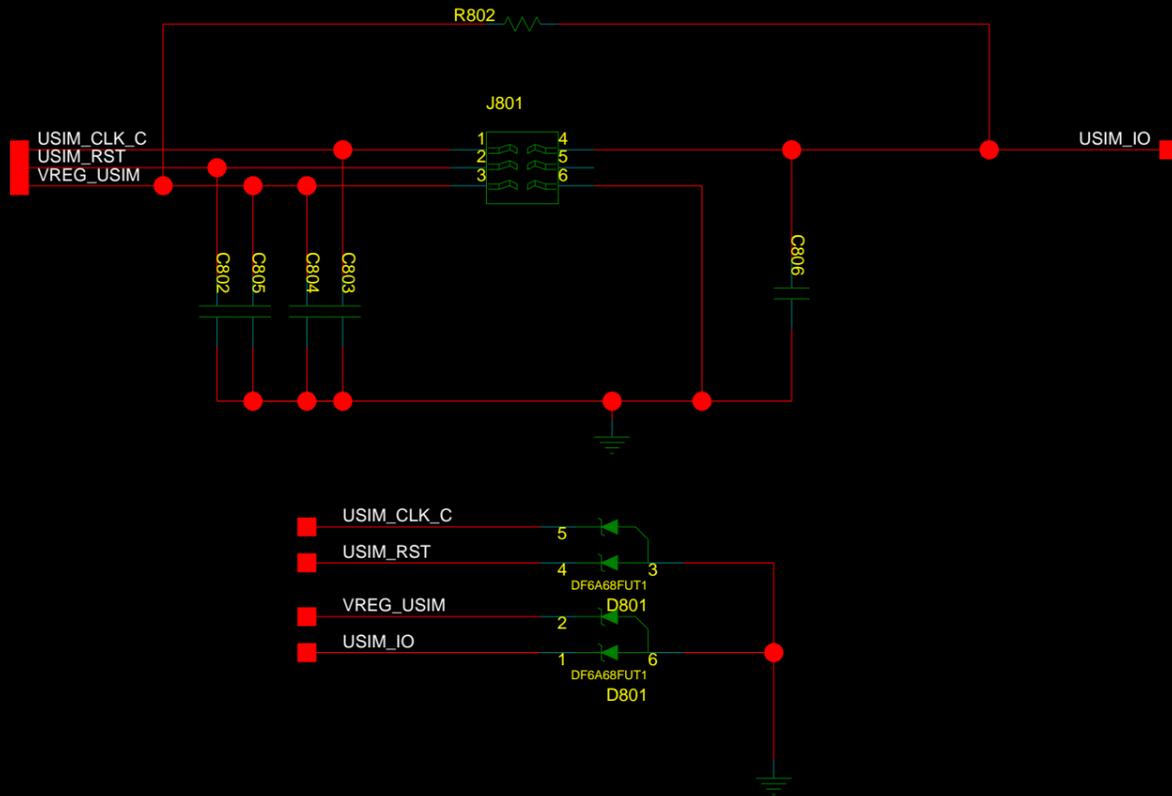
Place them as same as 3300

The type and specification of the components refer to the BOM

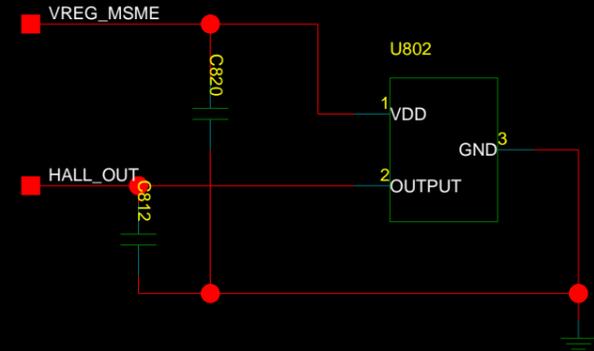
|          |                     |          |                      |
|----------|---------------------|----------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | 00599859             |
| REVIEWED | ZHAOLVXIA/62650     | 03020WYN | HUAWEI TECH CO.,LTD. |
|          |                     | VER      | PART_NUMBER          |
|          |                     |          | SHEET 7 OF 27        |
|          |                     |          | NA                   |
|          |                     |          | 2010-07-01           |
|          |                     |          | ECA NO               |
|          |                     |          | DATE                 |

# 8.SIM/TF Card/JTAG/Hall/Vibrator

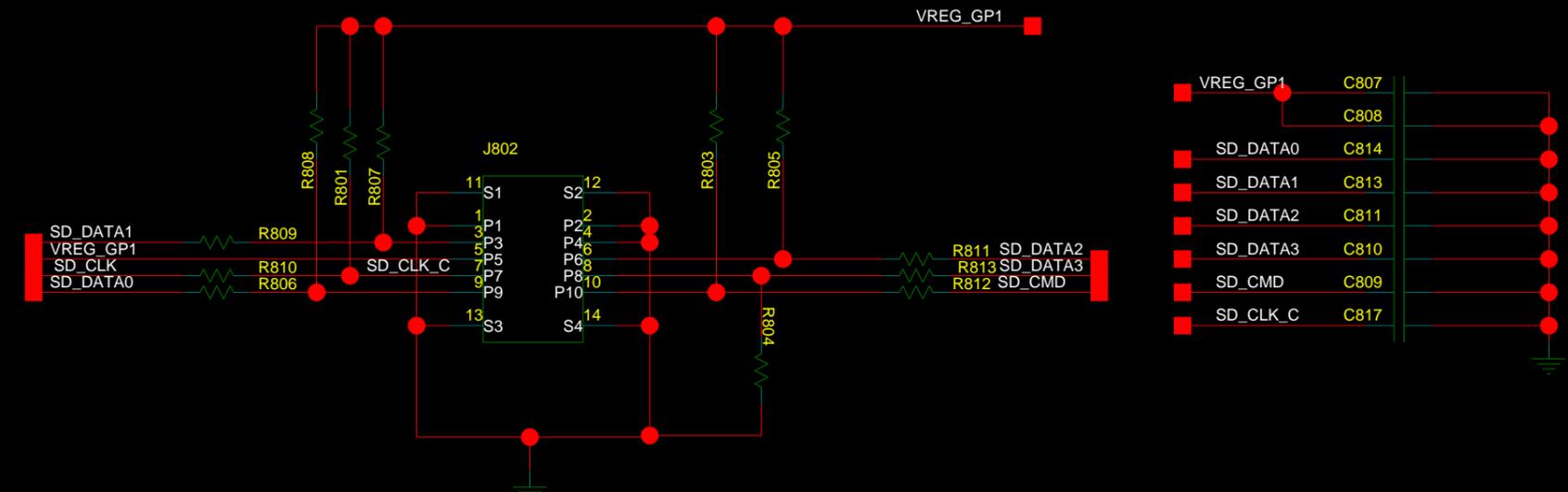
## SIM Card



## Hall NEC

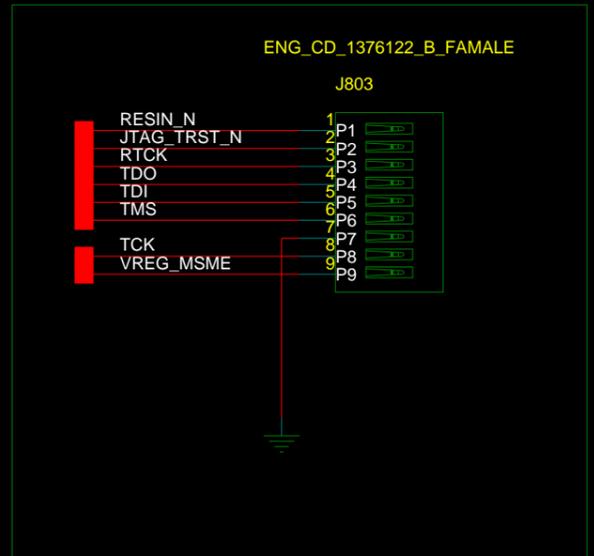


## TF card connector



## JTAG

## DNI



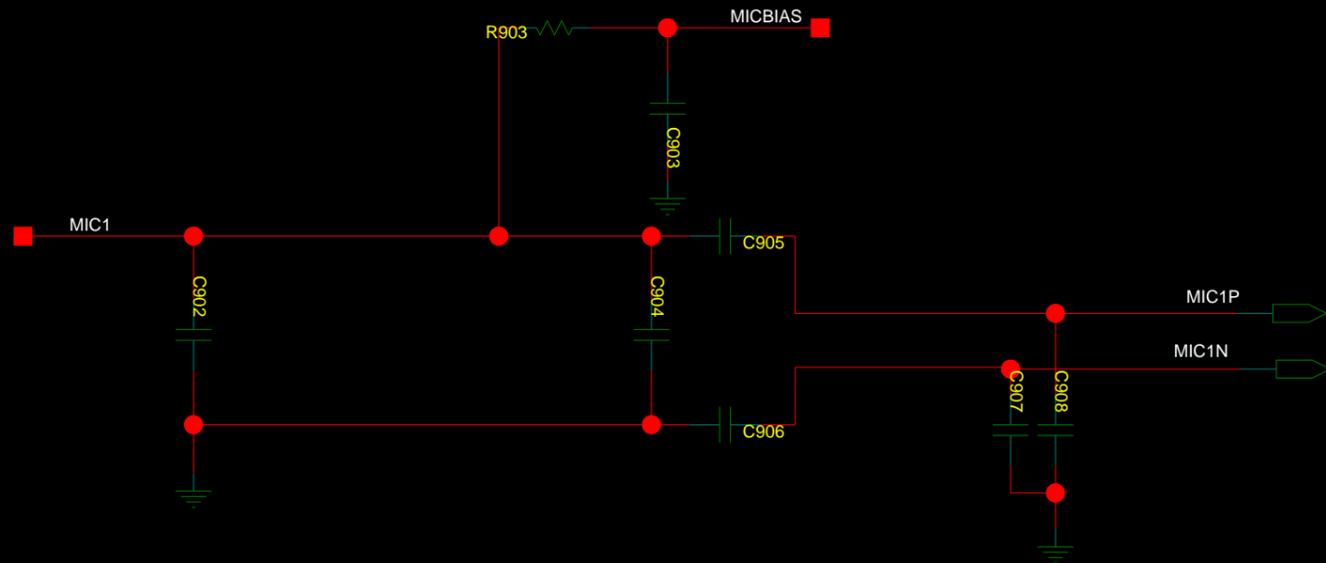
The type and specification of the components refer to the BOM

|          |                     |          |                      |
|----------|---------------------|----------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | 00599859             |
| REVIEWED | ZHAOLVXIA/62650     | VER      | PART_NUMBER          |
|          |                     |          | SHEET 8 OF 27        |
|          |                     | 03020WYN | HUAWEI TECH CO.,LTD. |

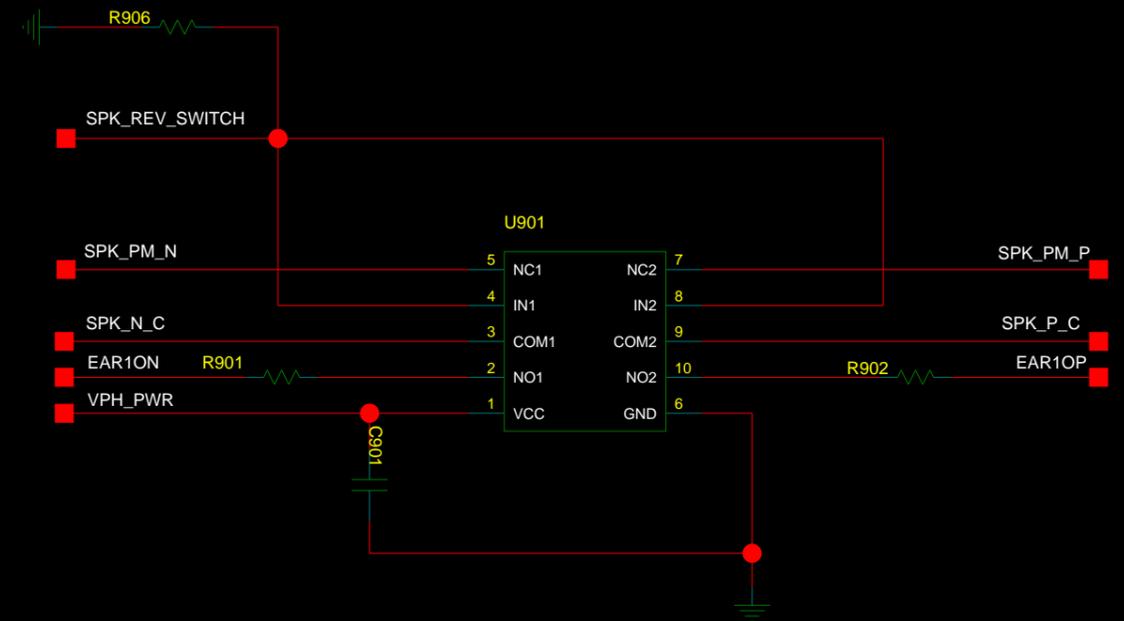
NA 2010-07-01  
ECA NO DATE

# 9. Audio Part Include MIC/Speaker/Receiver

## MIC CIRCUIT



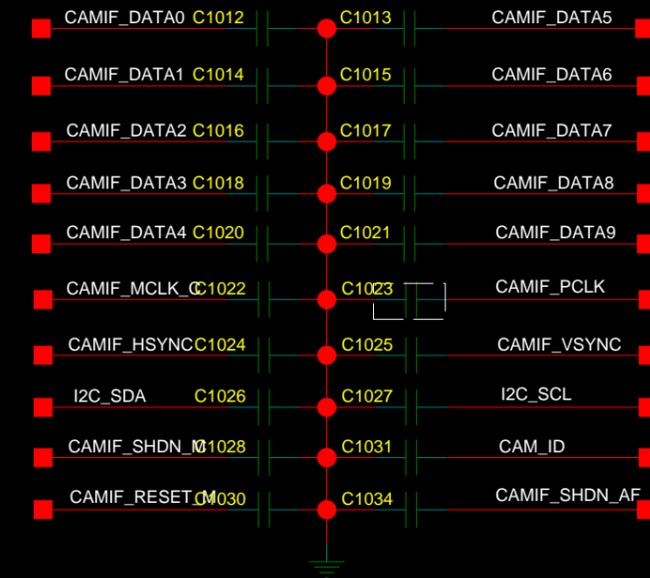
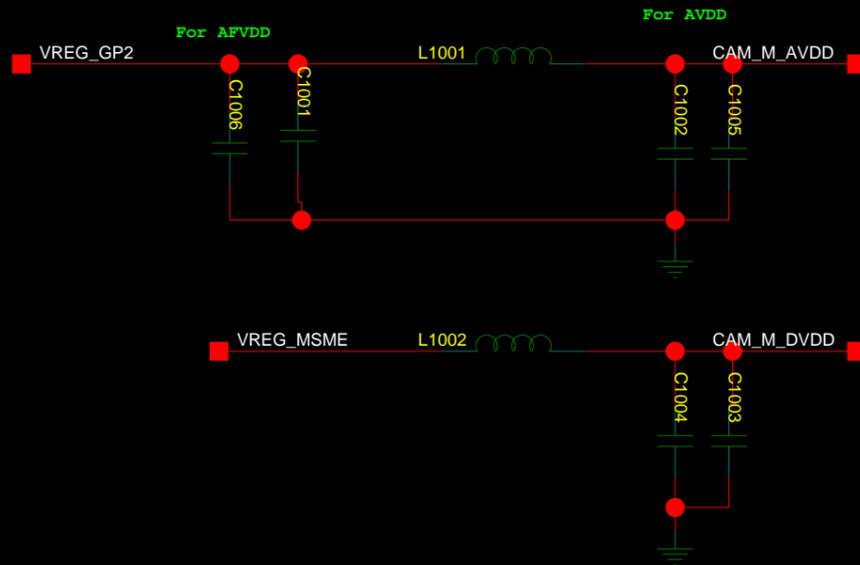
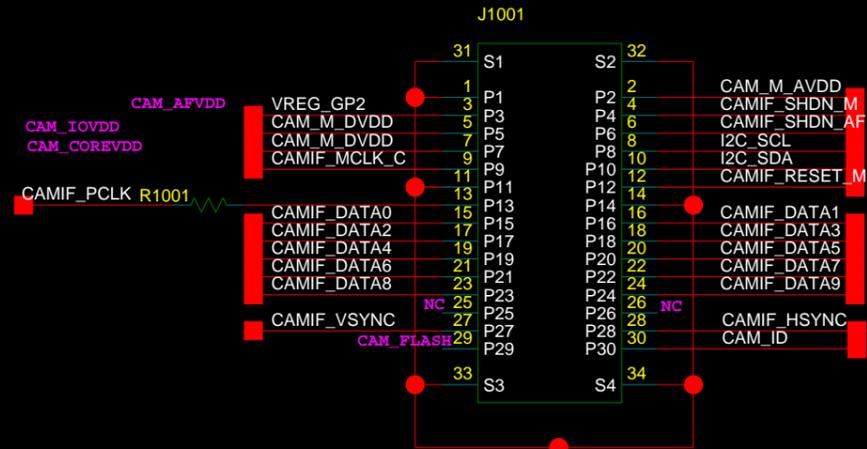
## SPEAKER/RECEIVER EXCHANGE CIRCUIT



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 9 OF 27        |            |
|          |                     |          | 03020WYN    | HUAWAI TECH CO.,LTD. |            |

# 10.Camera

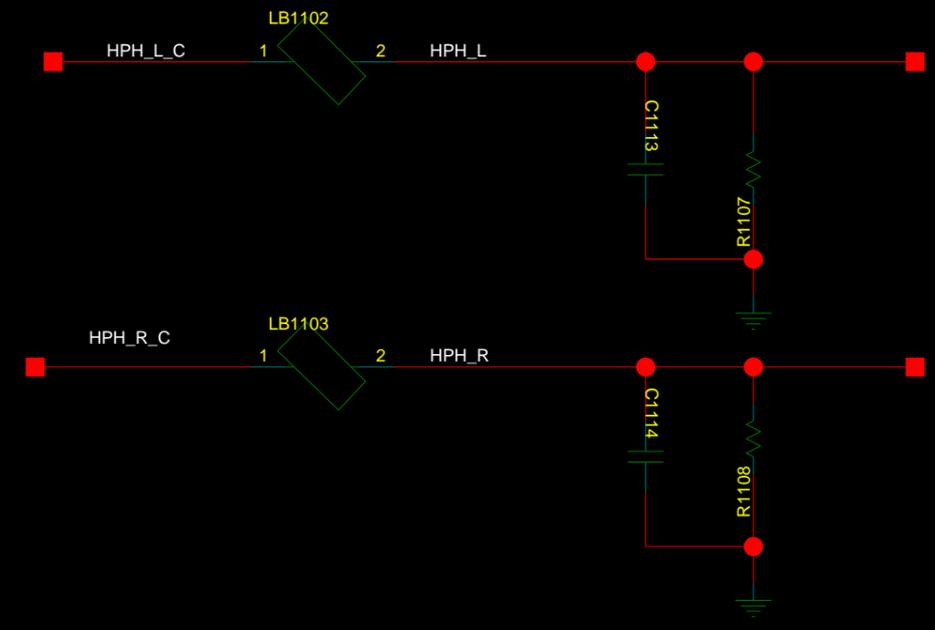
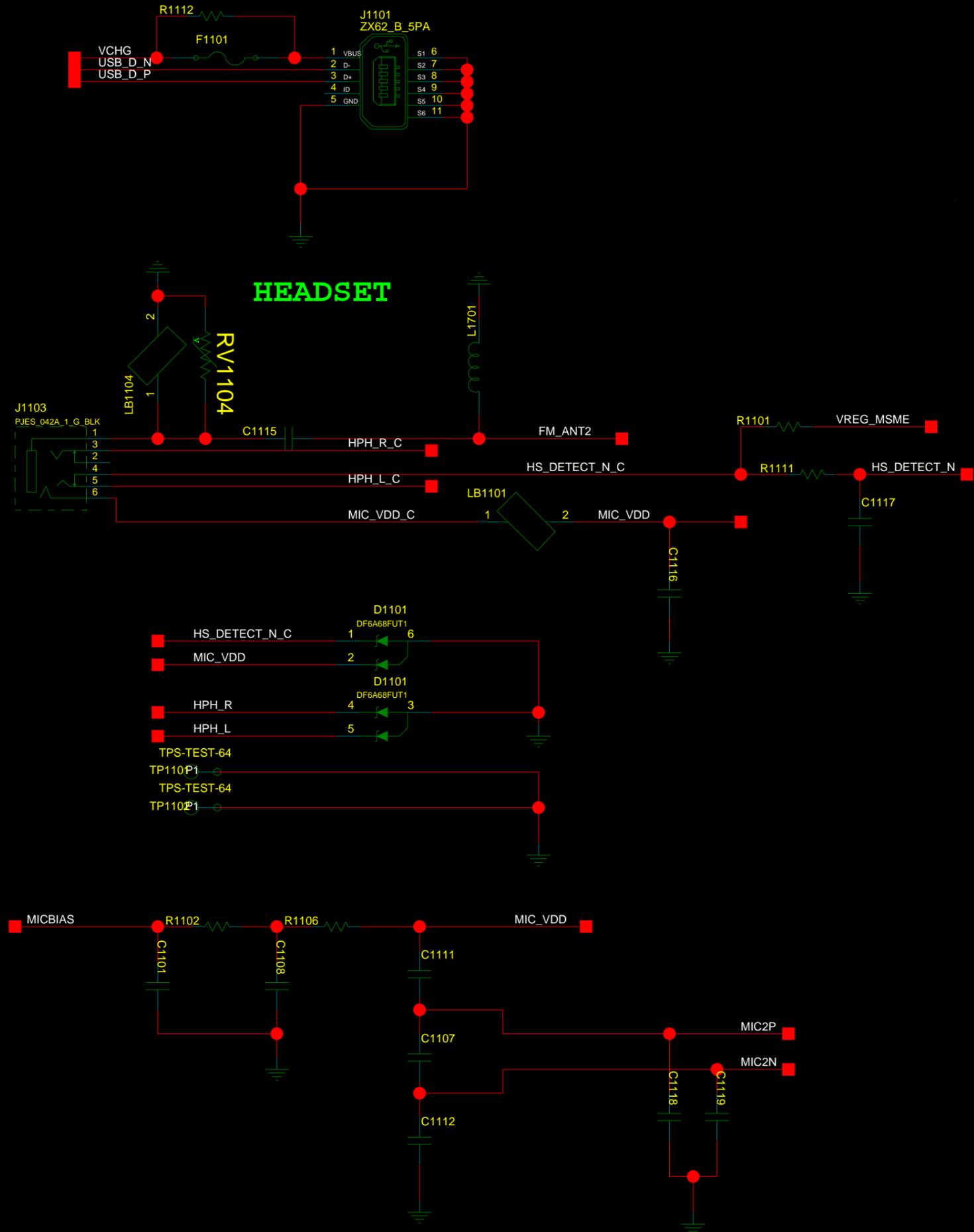


The type and specification of the components refer to the BOM

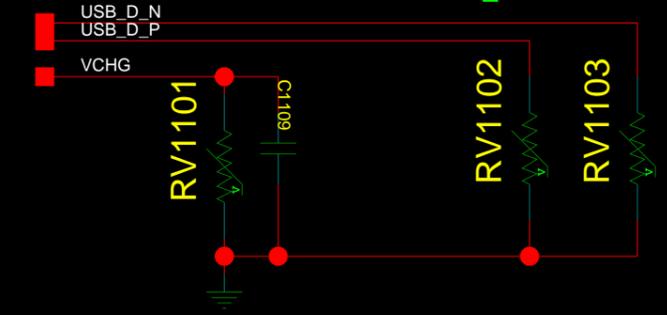
|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     | VER      | PART_NUMBER | SHEET 10 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWAI TECH CO.,LTD. |            |

# 11. Mini USB/Battery/HEADSET

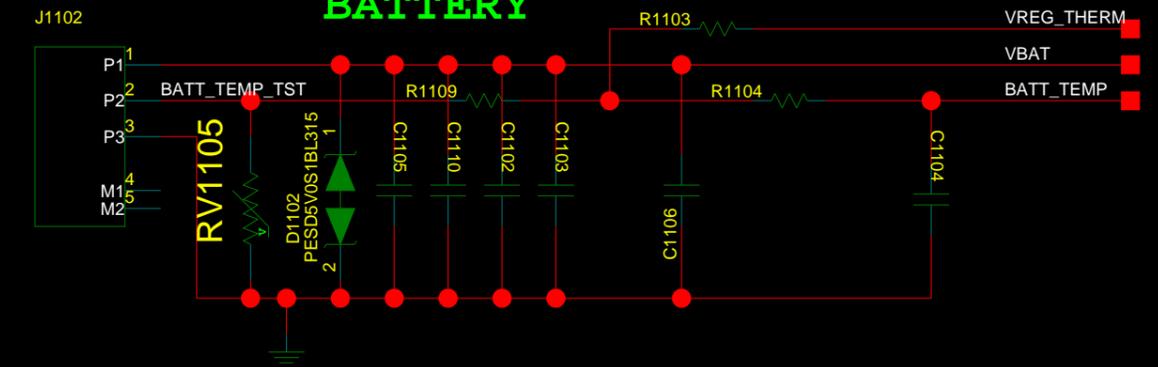
## Micro USB



## MICRO USB ESD portection



## BATTERY

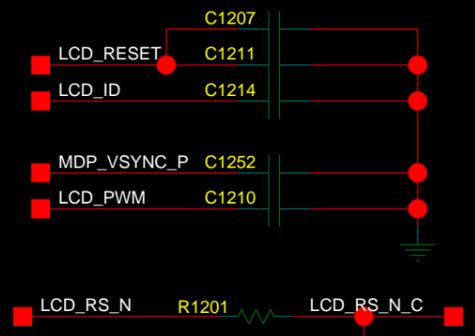
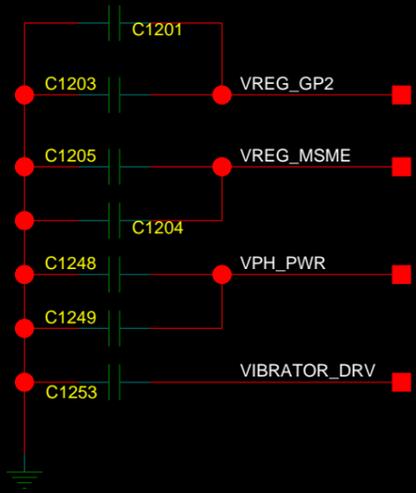
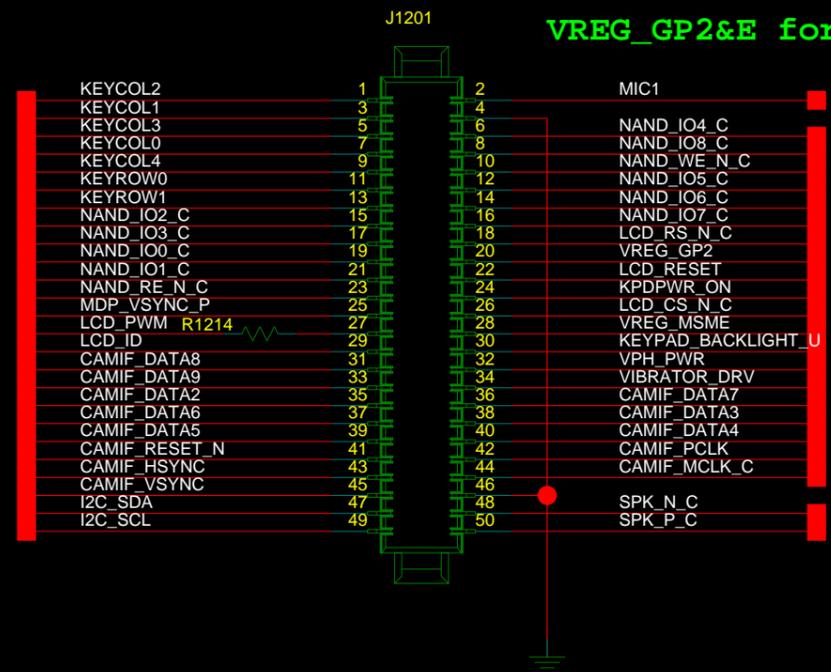


The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | NA                   | 2010-07-01 |
| REVIEWED | ZHAOLVXIA/62650     | 03020WYN |             | ECA NO               | DATE       |
|          |                     | VER      | PART_NUMBER | 00599859             |            |
|          |                     |          |             | SHEET 11 OF 27       |            |
|          |                     |          |             | HUAWEI TECH CO.,LTD. |            |

# 12. 50PIN on Main Board

## VREG\_GP2&E for LCD and Camera



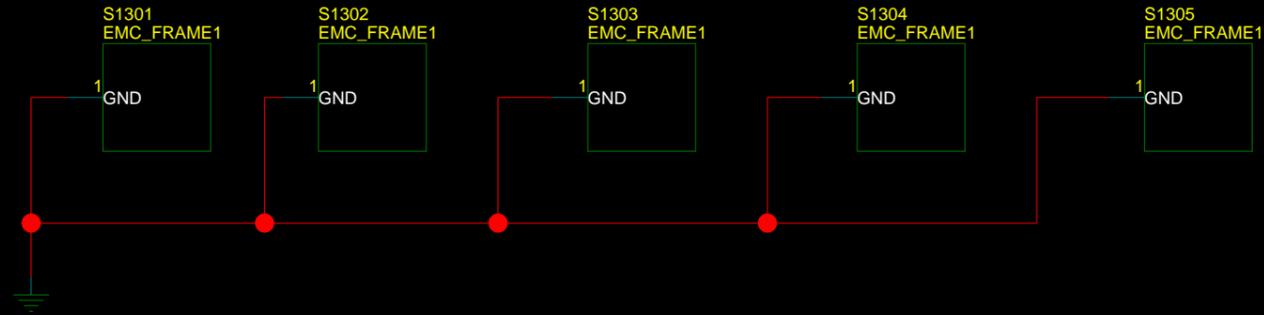
The type and specification of the components refer to the BOM

|          |                     |          |                      |
|----------|---------------------|----------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | 00599859             |
| REVIEWED | ZHAOLVXIA/62650     | VER      | PART_NUMBER          |
|          |                     |          | SHEET 12 OF 27       |
|          |                     | 03020WYN | HUAWEI TECH CO.,LTD. |

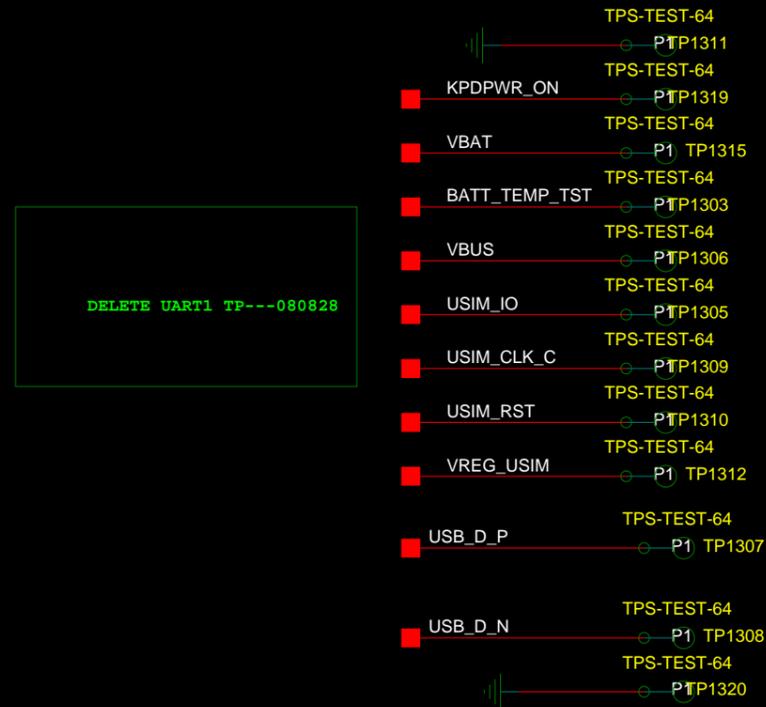
NA 2010-07-01  
ECA NO DATE

# 13. Test Points

TEST POINT for debug



for CT and BT test



PLACE THOSE TESTPOINTS ON SAME SIDE OF RF SWITCH AND BT TESTPOINT.  
GND should be large enough

The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     | VER      | PART_NUMBER | SHEET 13 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWAI TECH CO.,LTD. |            |

14.NULL

A

A

B

B

C

C

D

D

The type and specification of the components refer to the BOM

|          |                     |     |             |                      |            |
|----------|---------------------|-----|-------------|----------------------|------------|
|          |                     |     |             |                      |            |
|          |                     |     |             | NA                   | 2010-07-01 |
|          |                     |     |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 |     |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |     | HD1U329M    |                      |            |
|          |                     | VER | PART_NUMBER | SHEET 14 OF 27       |            |
|          |                     |     | 03020WYN    | HUAWAI TECH CO.,LTD. |            |

15. NULL

A

A

B

B

C

C

D

D

The type and specification of the components refer to the BOM

|          |                     |     |             |        |                      |
|----------|---------------------|-----|-------------|--------|----------------------|
|          |                     |     |             |        |                      |
|          |                     |     |             | NA     | 2010-07-01           |
|          |                     |     |             | ECA NO | DATE                 |
| DESIGNED | LEIXINLANG/00131596 |     |             |        |                      |
|          |                     |     | HD1U329M    |        | 00599859             |
| REVIEWED | ZHAOLVXIA/62650     |     |             |        |                      |
|          |                     | VER | PART_NUMBER | SHEET  | 15 OF 27             |
|          |                     |     | 03020WYN    |        | HUAWEI TECH CO.,LTD. |

16.NULL

A

A

B

B

C

C

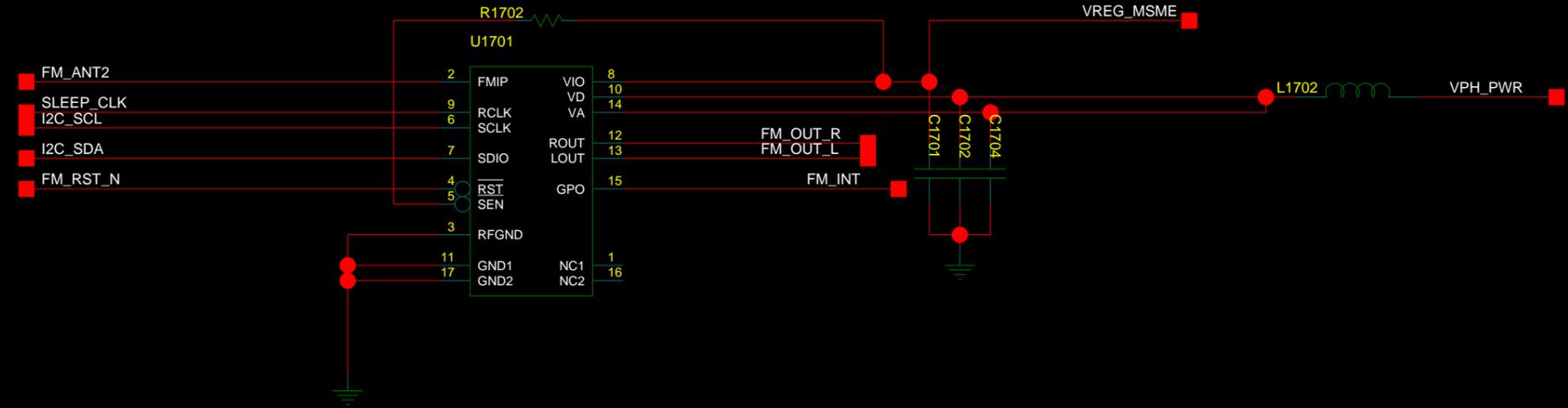
D

D

The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 16 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

# FM



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     | VER      | PART_NUMBER | SHEET 17 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

# 30. RF TO BASEBAND I/O PORTS

## POWER SUPPLY FOR QSC6240/6270 RF



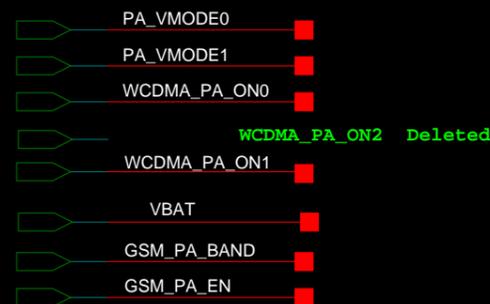
## FOR ANTENNA SWITCH CONTROL



## FOR TCXO



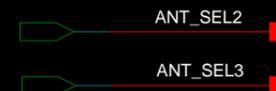
## FOR PA CONTROL



## FOR BT CONTROL



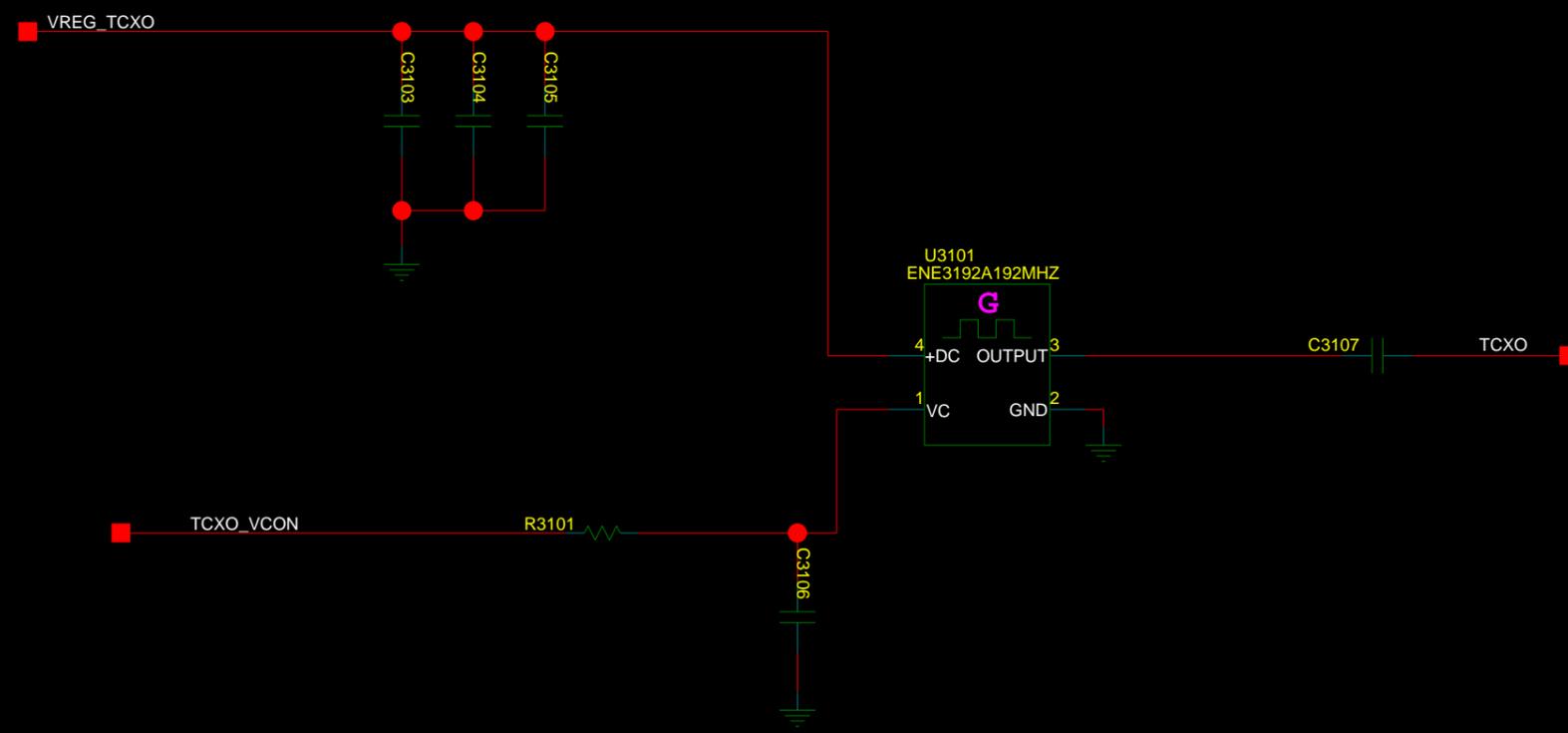
## FOR MATCHING CIRCUIT



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 18 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWAI TECH CO.,LTD. |            |

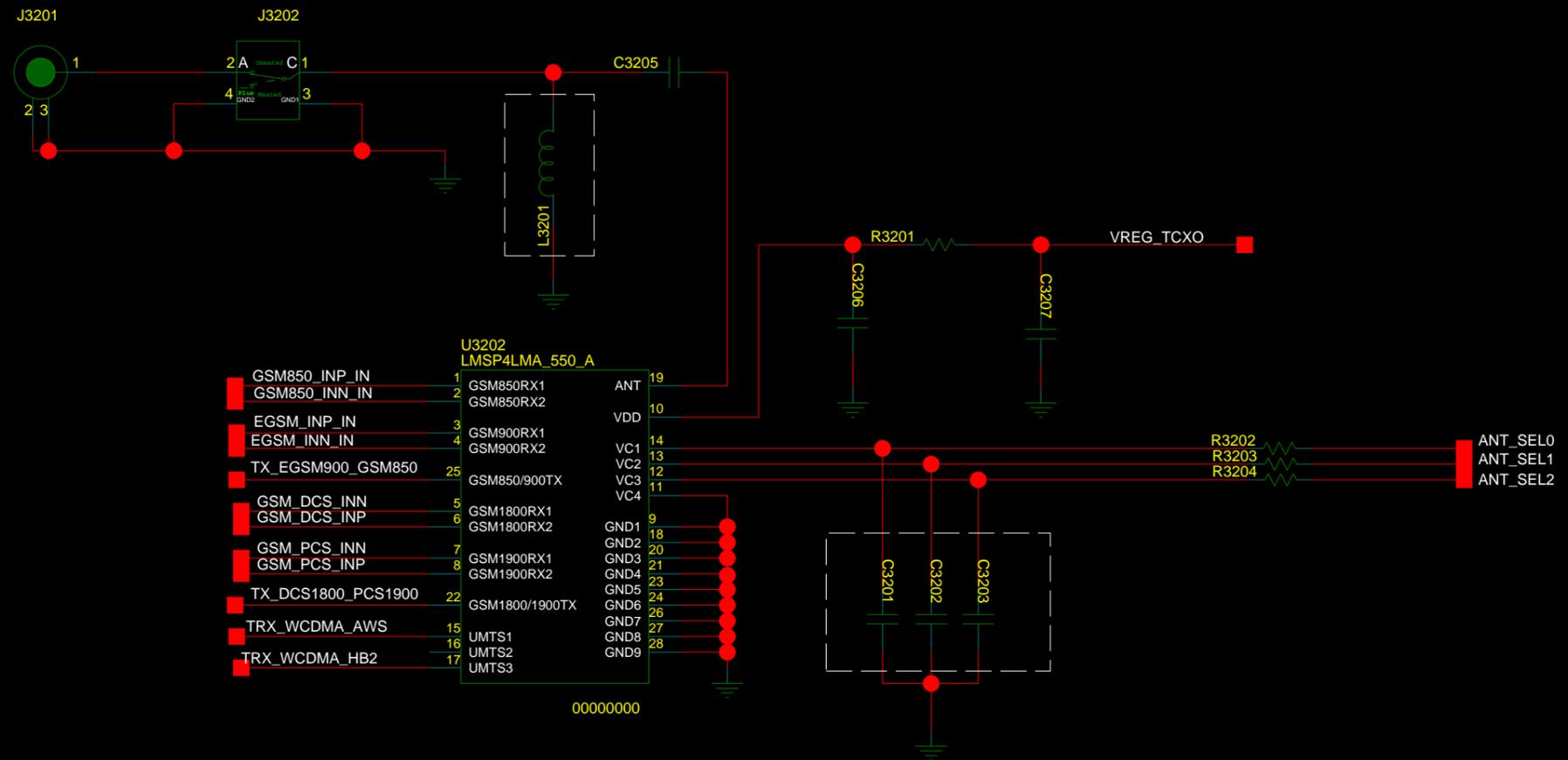
# 31. 19.2MHz VCTCXO



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 19 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

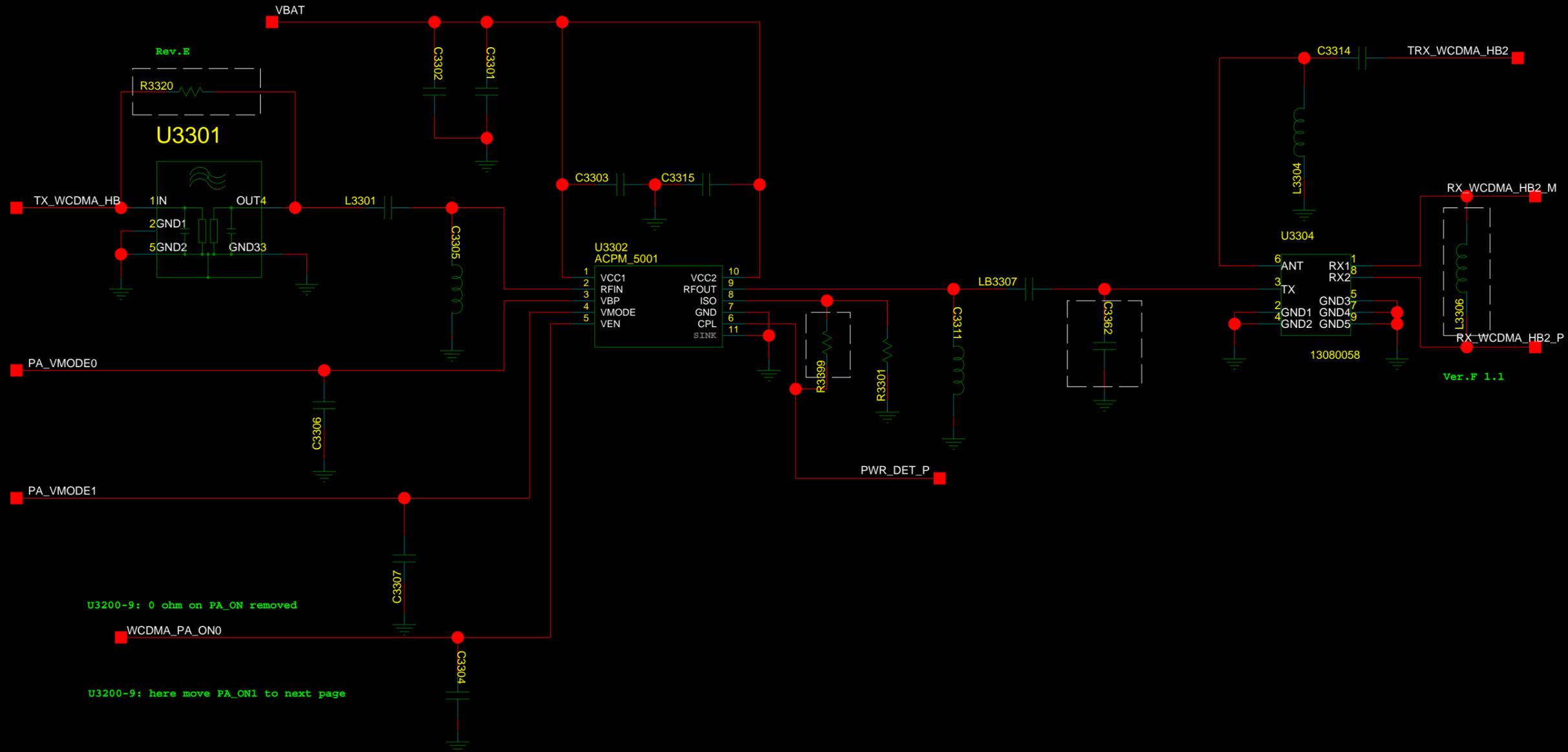
# 32. Antenna Switchplexer



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 20 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

# 33. WCDMA IMT/PCS Power Amplifier



|              |     |
|--------------|-----|
| WCDMA_PA_ON0 | PA  |
| H            | ON  |
| L            | OFF |

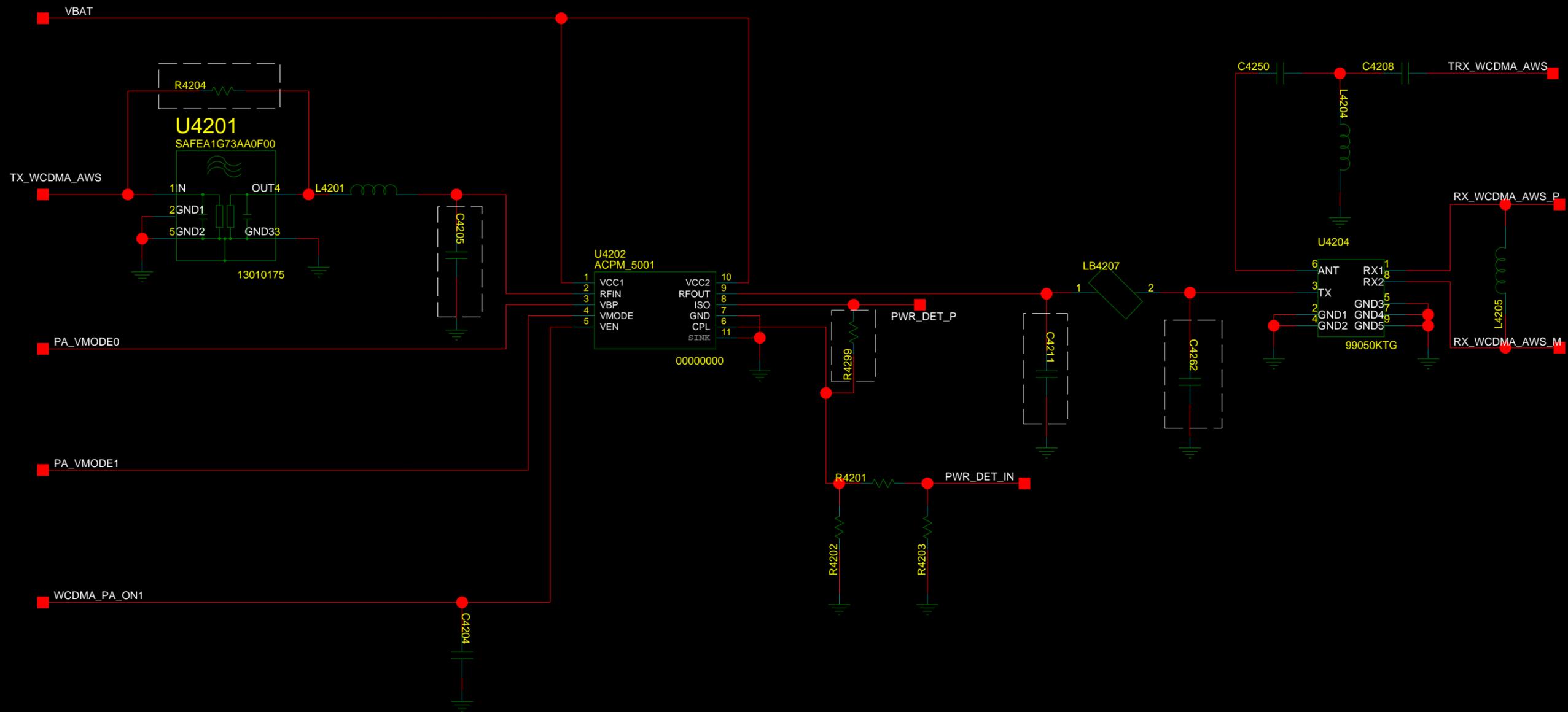
|           |           |              |
|-----------|-----------|--------------|
| PA_VMODE0 | PA_VMODE1 | MODE         |
| L         | L         | High Power   |
| L         | H         | Middle Power |
| H         | H         | Low Power    |

|              |          |
|--------------|----------|
| WCDMA_PA_ON0 | W2100    |
| WCDMA_PA_ON1 | W1900    |
| WCDMA_PA_ON2 | W850/900 |

The type and specification of the components refer to the BOM

|          |                     |          |             |                      |
|----------|---------------------|----------|-------------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | NA          | 2010-07-01           |
| REVIEWED | ZHAOLVXIA/62650     |          | ECA NO      | DATE                 |
|          |                     | VER      | PART_NUMBER | SHEET 21 OF 27       |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |

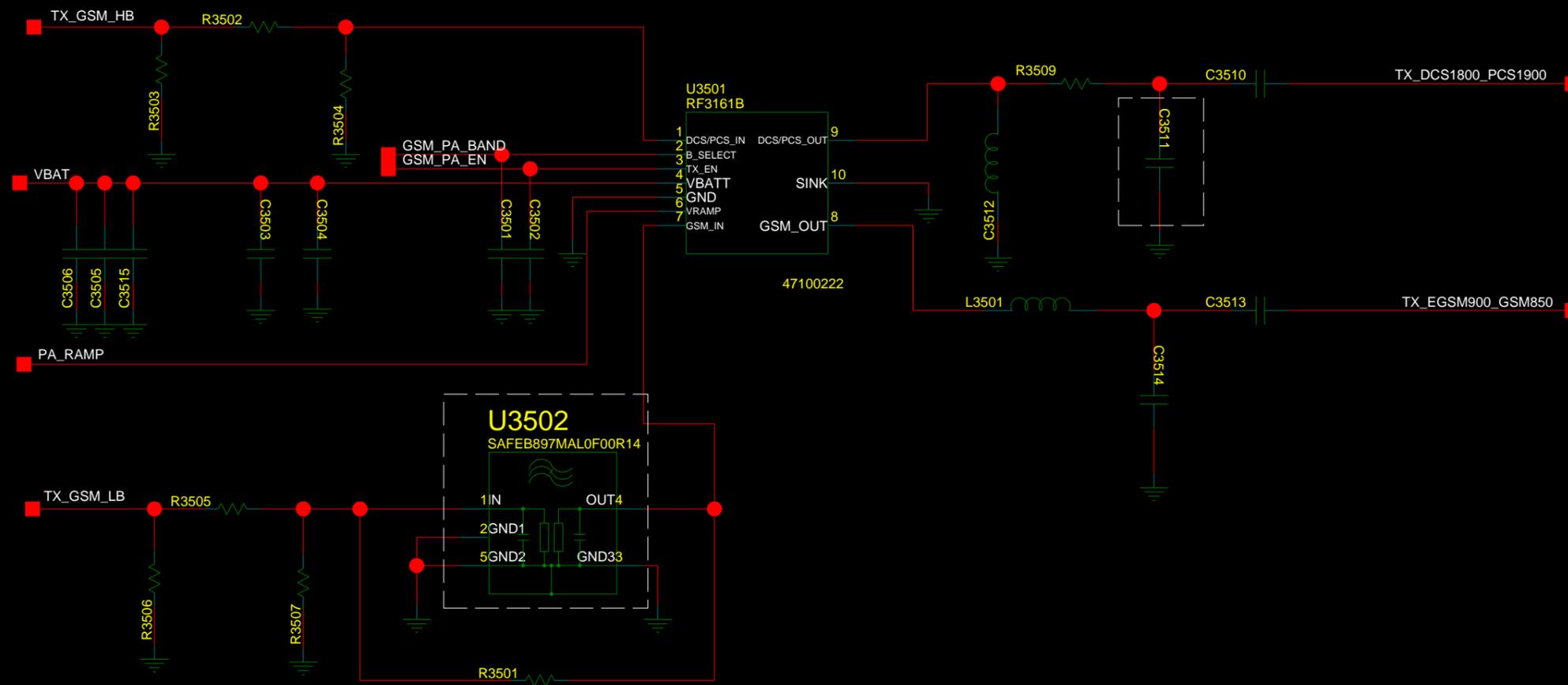
# 42.AWS PA



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 22 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

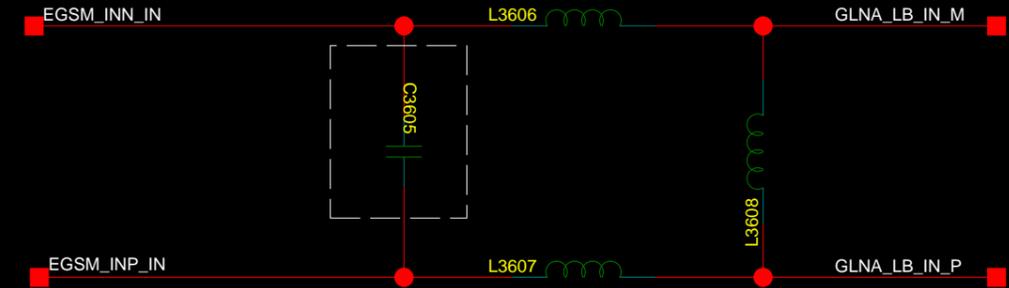
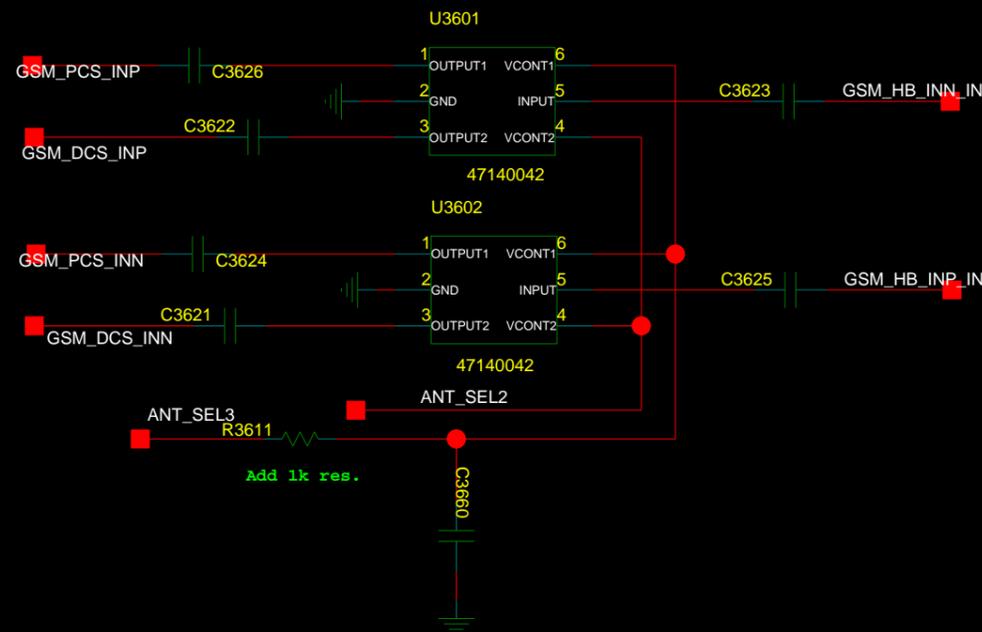
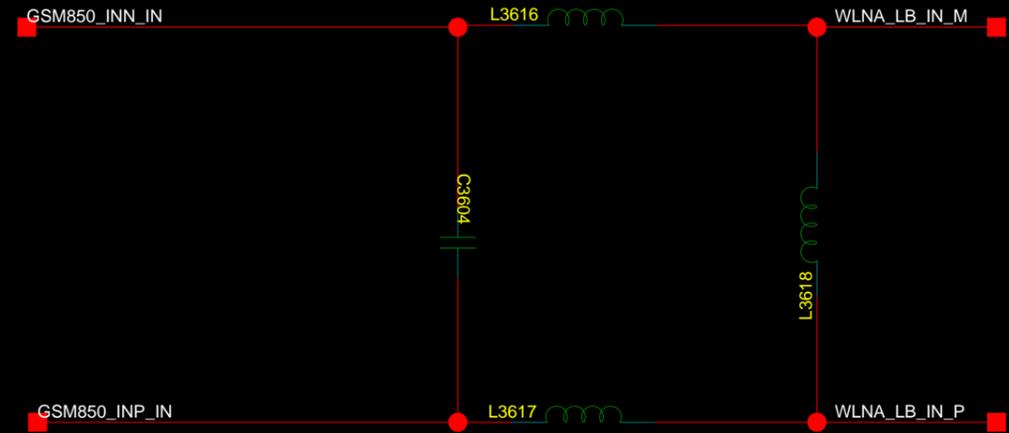
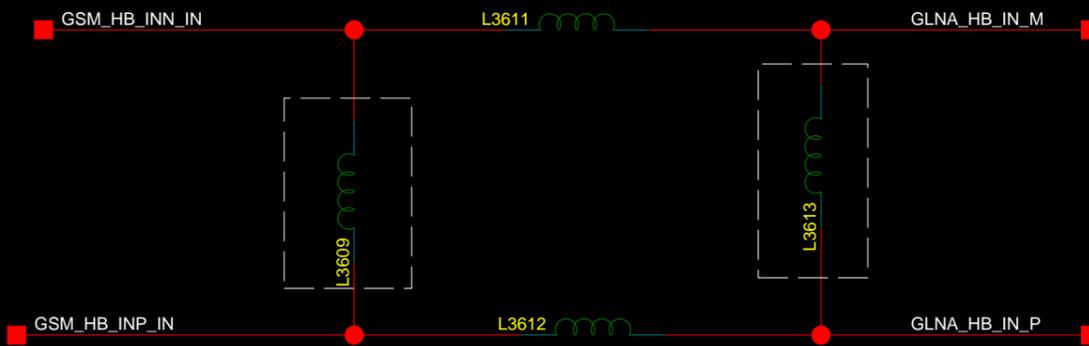
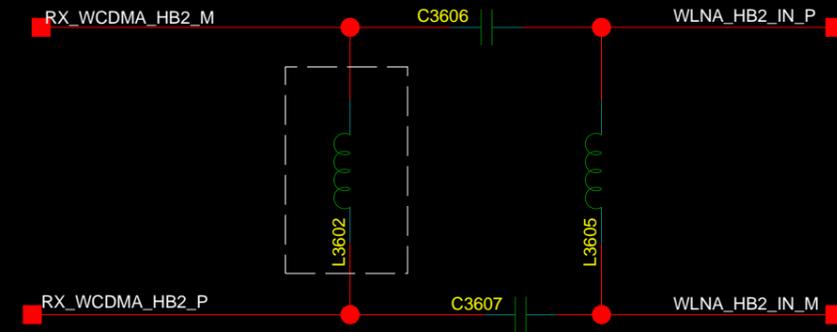
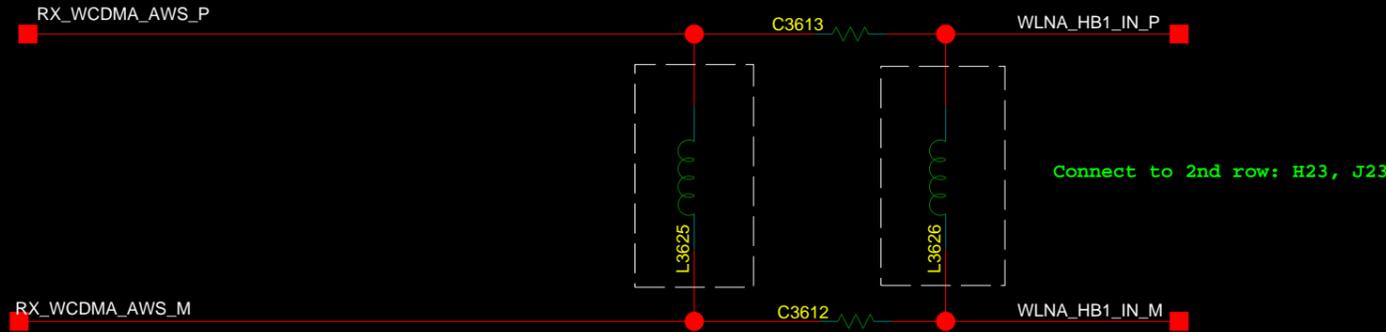
# 35. GSM Quad\_band\_PA



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 23 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

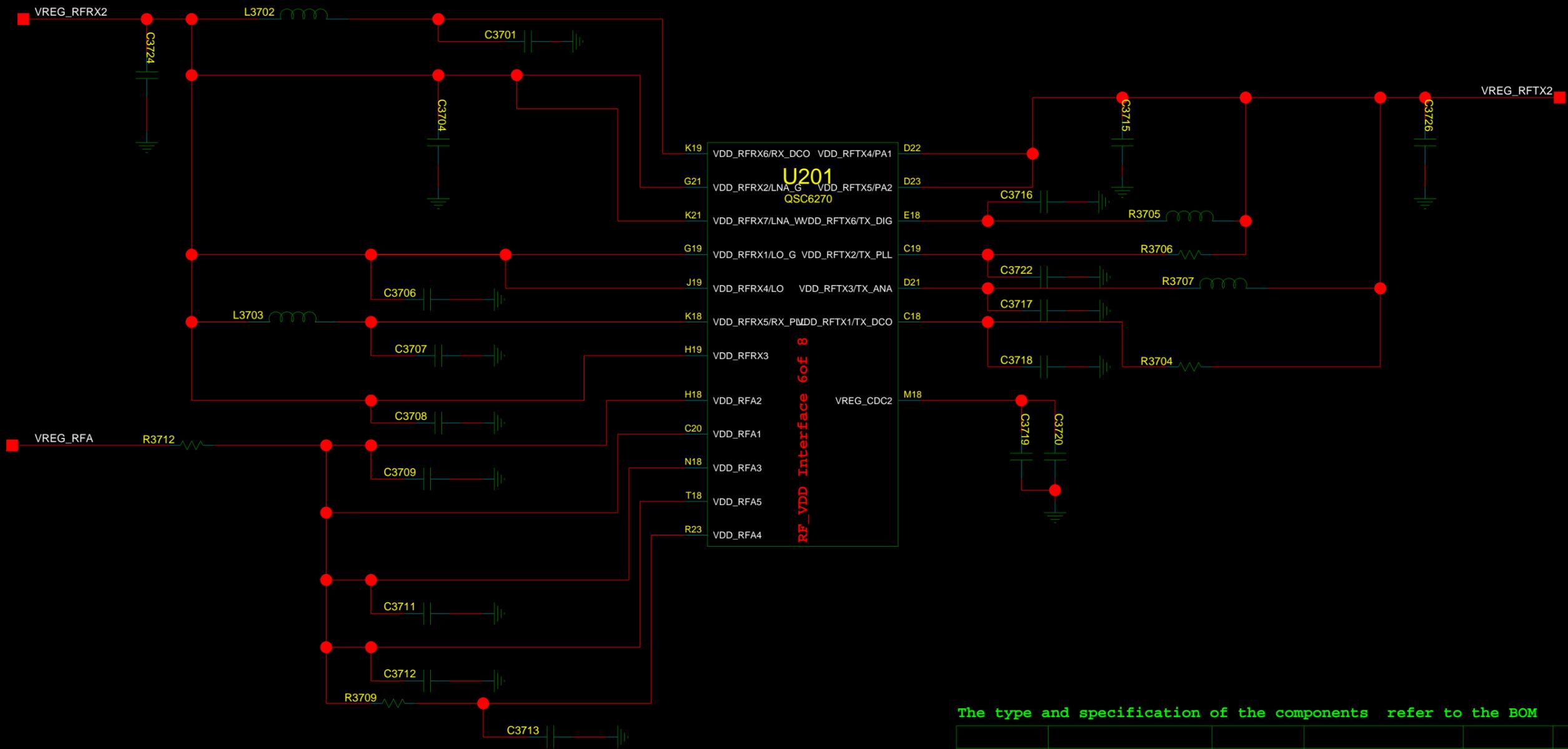
# 36. MATCHING CIRCUIT



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     | VER      | PART_NUMBER | SHEET 24 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

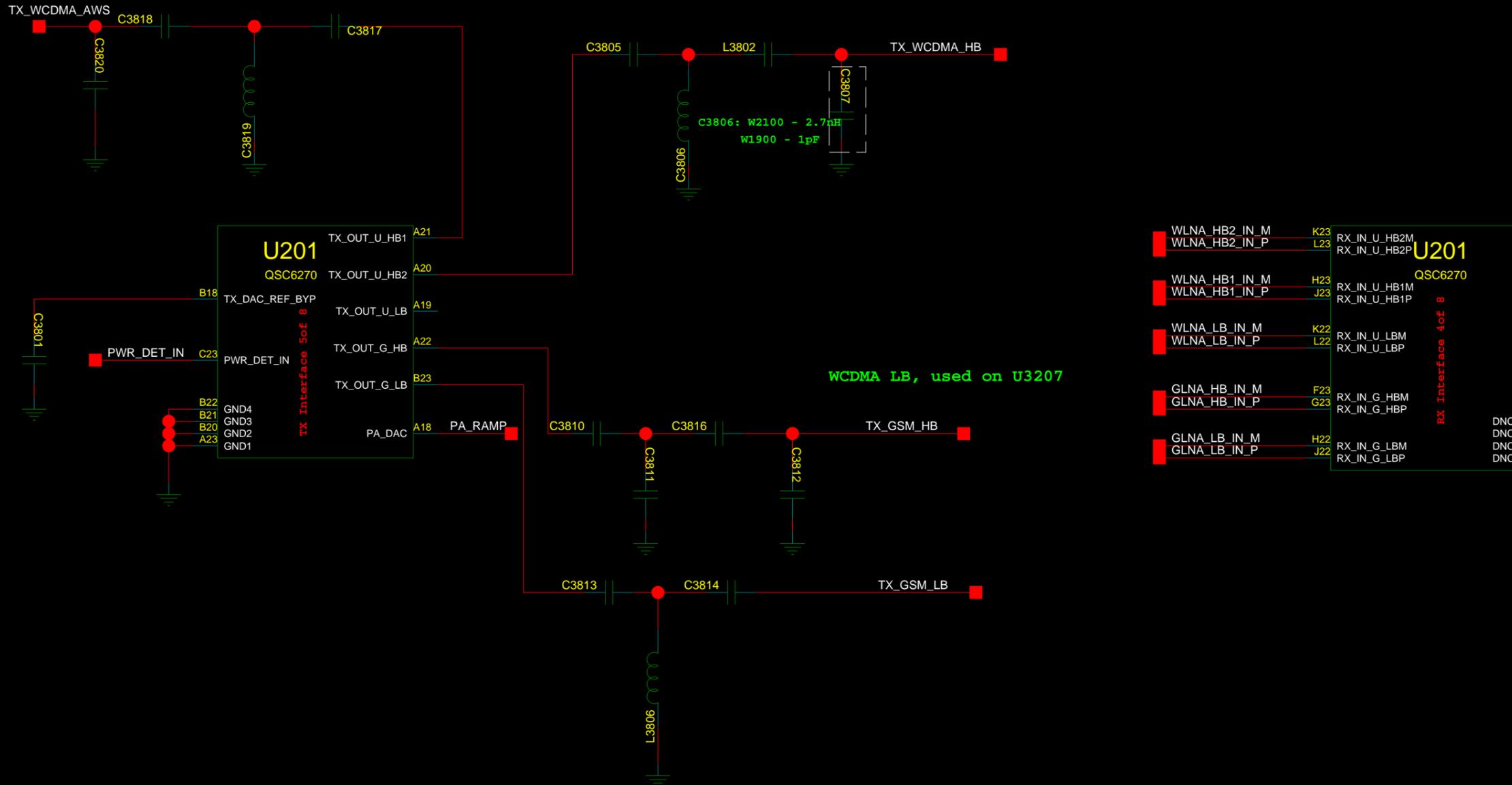
# 37. QSC6240/6270 RF POWER



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 25 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |

# 38. QSC6240/6270 RX/TX Circuit



The type and specification of the components refer to the BOM

|          |                     |          |                      |
|----------|---------------------|----------|----------------------|
| DESIGNED | LEIXINLANG/00131596 | HD1U329M | 00599859             |
| REVIEWED | ZHAOLVXIA/62650     | VER      | PART_NUMBER          |
|          |                     |          | SHEET 26 OF 27       |
|          |                     | 03020WYN | HUAWEI TECH CO.,LTD. |

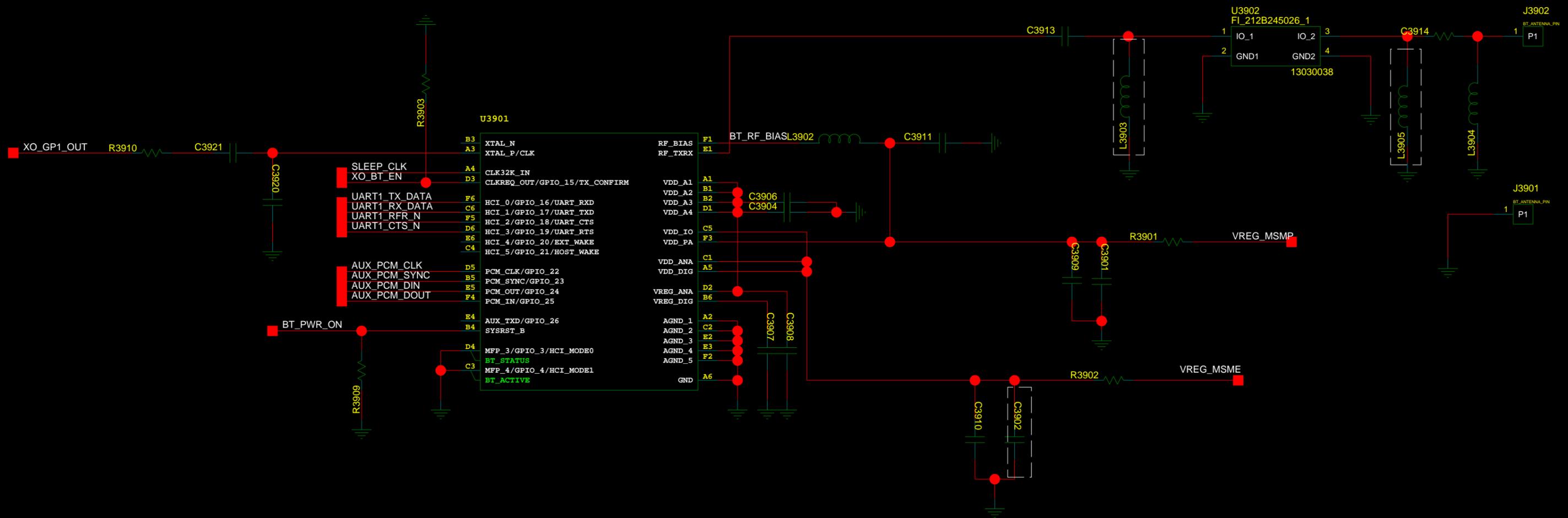
NA 2010-07-01  
ECA NO DATE

00599859

SHEET 26 OF 27

HUAWEI TECH CO.,LTD.

# 39. BTS4025 TX/RX Circuit



The type and specification of the components refer to the BOM

|          |                     |          |             |                      |            |
|----------|---------------------|----------|-------------|----------------------|------------|
|          |                     |          |             | NA                   | 2010-07-01 |
|          |                     |          |             | ECA NO               | DATE       |
| DESIGNED | LEIXINLANG/00131596 | HD1U329M |             | 00599859             |            |
| REVIEWED | ZHAOLVXIA/62650     |          |             |                      |            |
|          |                     | VER      | PART_NUMBER | SHEET 27 OF 27       |            |
|          |                     |          | 03020WYN    | HUAWEI TECH CO.,LTD. |            |