

1.SCH List

BB SCHEMATICS

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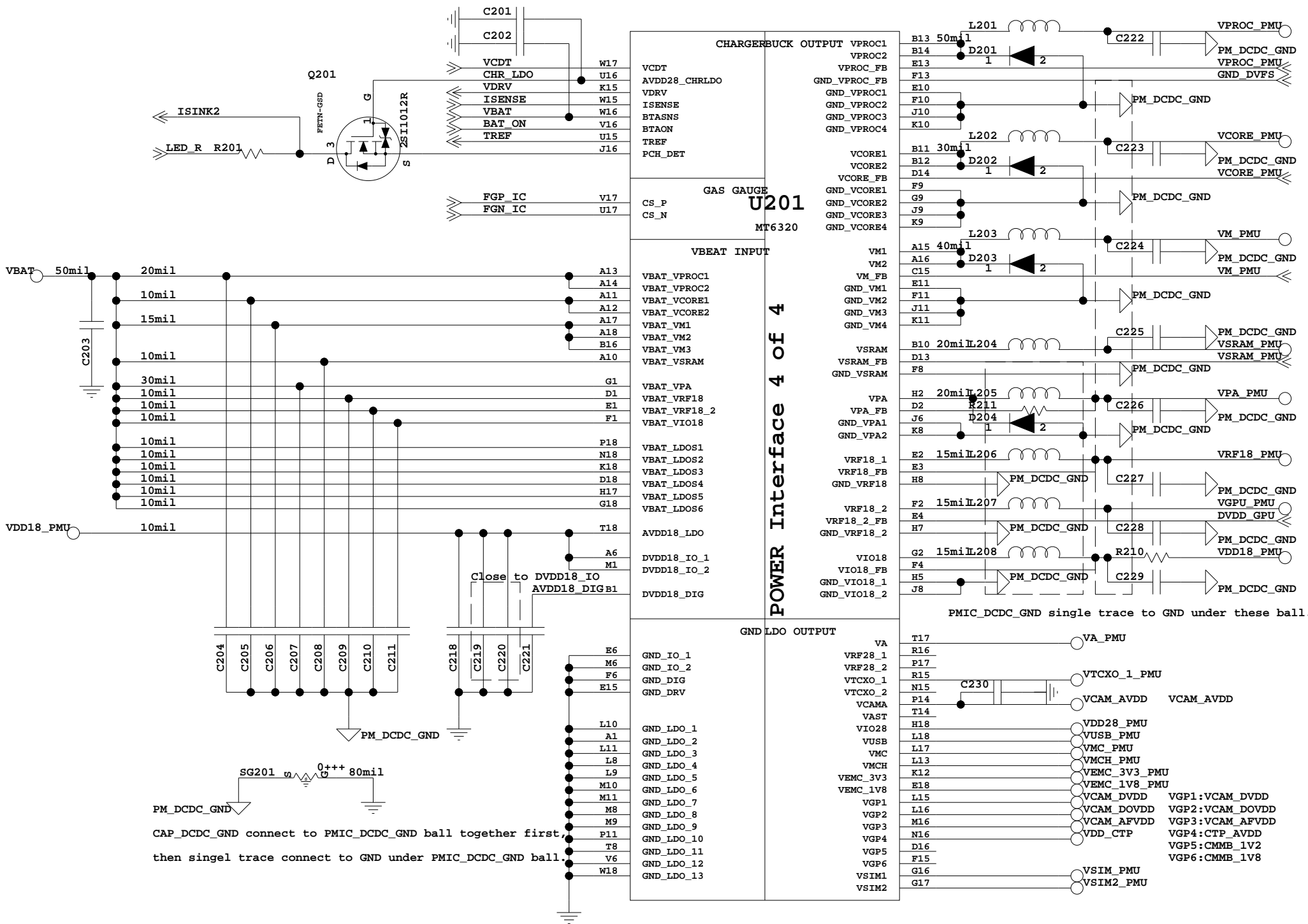
RF

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- 35. RX
- 28. Reserved
- 28. Reserved
- 36. Reserved (Diversity Path Front End)

The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 1 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

2. PMU-MT6320 Power



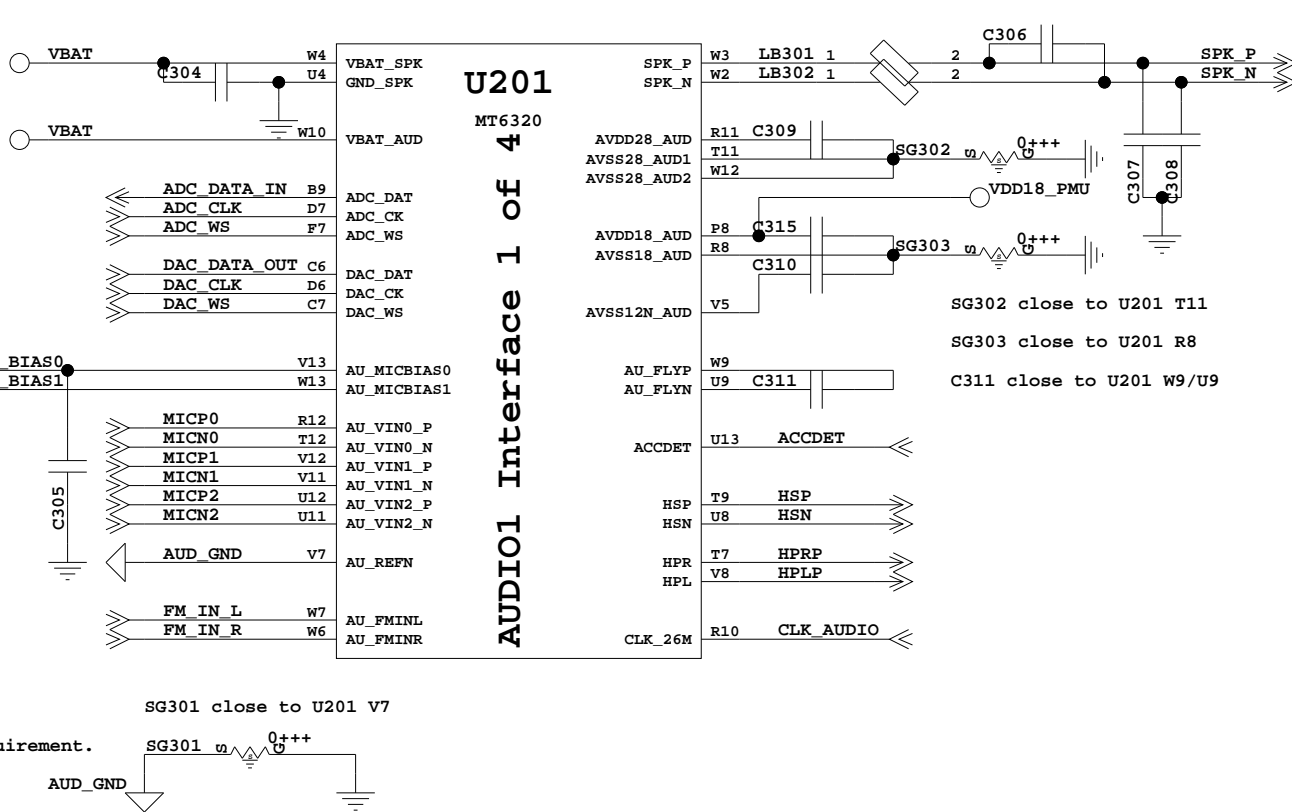
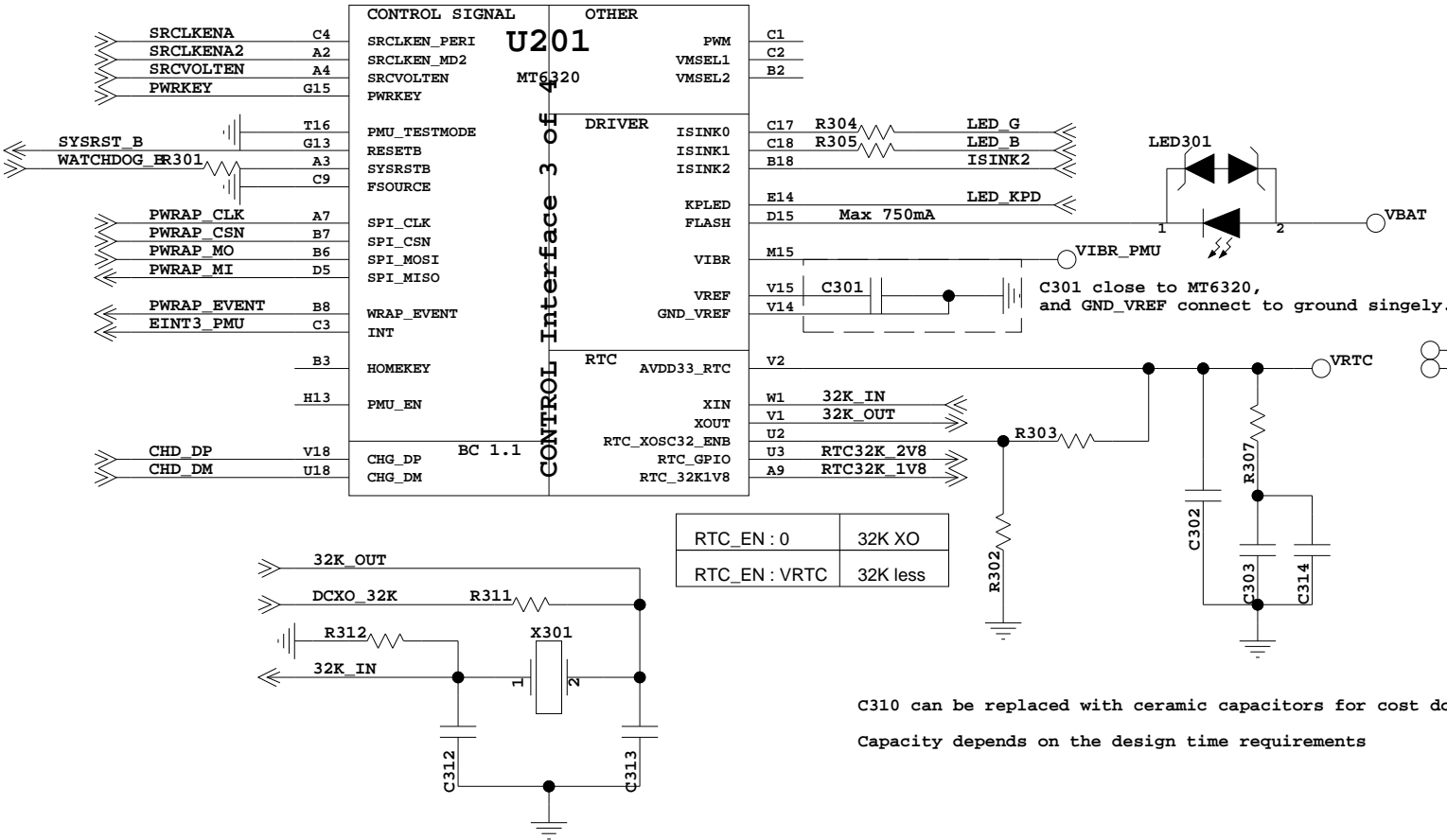
VPROC	1.15V Sleep mode 0.9V	2A	AP
VCORE	1.05V Sleep mode 0.9V	1.2A	Modem, system
VM	1.2V	1.1A	LPDDR2 core
VSRAM	1.15V Sleep mode 0.9V	600mA	SRAM IF.
VPA	3.4V	600mA	3G PA
VRF18	1.825v	450mA	MT6167
VRF18_2	1.825V	450mA	GPU
VDD18	1.8V	600mA	1V8 IO, VTD input
VTCXO_1	2.8V	40mA	MT6167
AVDD	1.8V	100mA	Analog, ADC
AVDD28	2.8V	40mA	Audio block(internal)
VCAMA	2.8V	200mA	CAM AVDD
VDD28	2.8V	400mA	2V8 IO, sensor
VUSB	3.3V	100mA	USB PHY
VMC	1.8/3.3V	200mA	TF Card IO IF.
VMCH	3.3V	800mA	TF Card Power
VEMC_1V8	1.8V	200mA	eMMC IO IF.
VEMC_3V3	3.0V	800mA	eMMC core
VGP1	1.2V	400mA	CAM DVDD
VGP2	1.8V	200mA	CAM DOVDD
VGP3	2.8V	200mA	CAM AFVDD
VGP4	2.8V	200mA	CTP AVDD
VGP5	1.2V	200mA	CMMB 1V2
VGP6	1.8V	200mA	CMMB 1V8
VSIM1	1.8/3.3V	200mA	SIM1
VSIM2	1.8/3.3V	200mA	SIM2
VIBR	3.0V	200mA	Vibrator
VRTC	2.8V	2mA	RTC block

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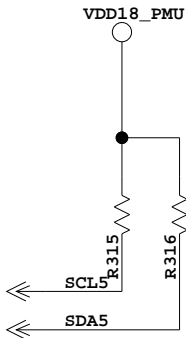
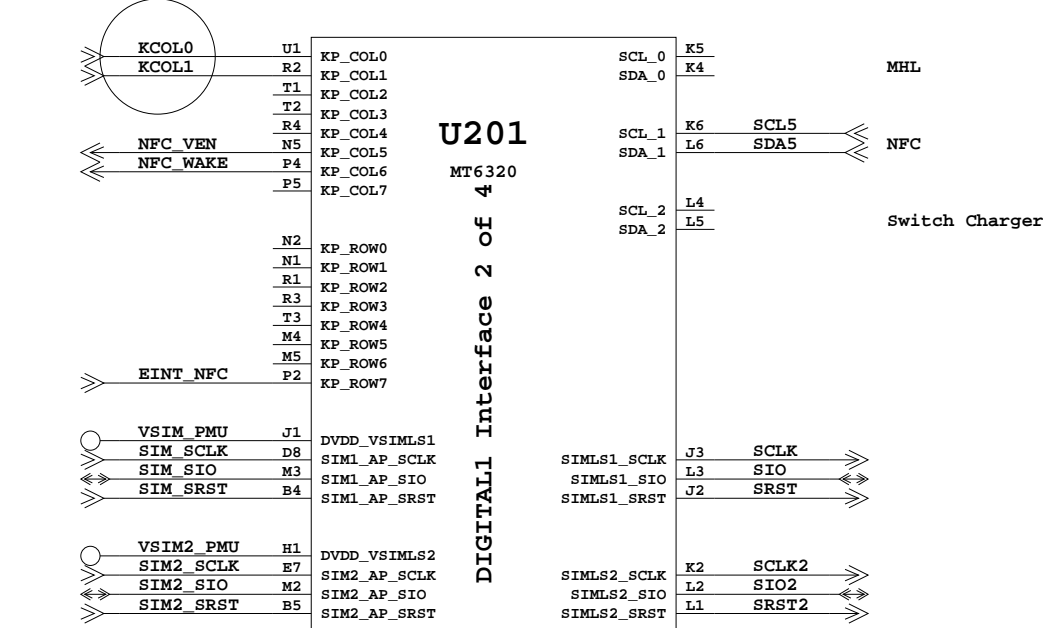
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				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 2 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

3. PMU-MT6320 Function Interface

	LPDDR2/1.2V	LPDDR3/1.25V	LPDDR2/1.35V	LPDDR2/1.5V
VMSEL_1	L	H	L	H
VMSEL_2	L	L	H	H



KCOL0/KCOL1 configuration for INT mode.



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REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 3 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

A

D

5. MT6589 GPIOs

A

B

C

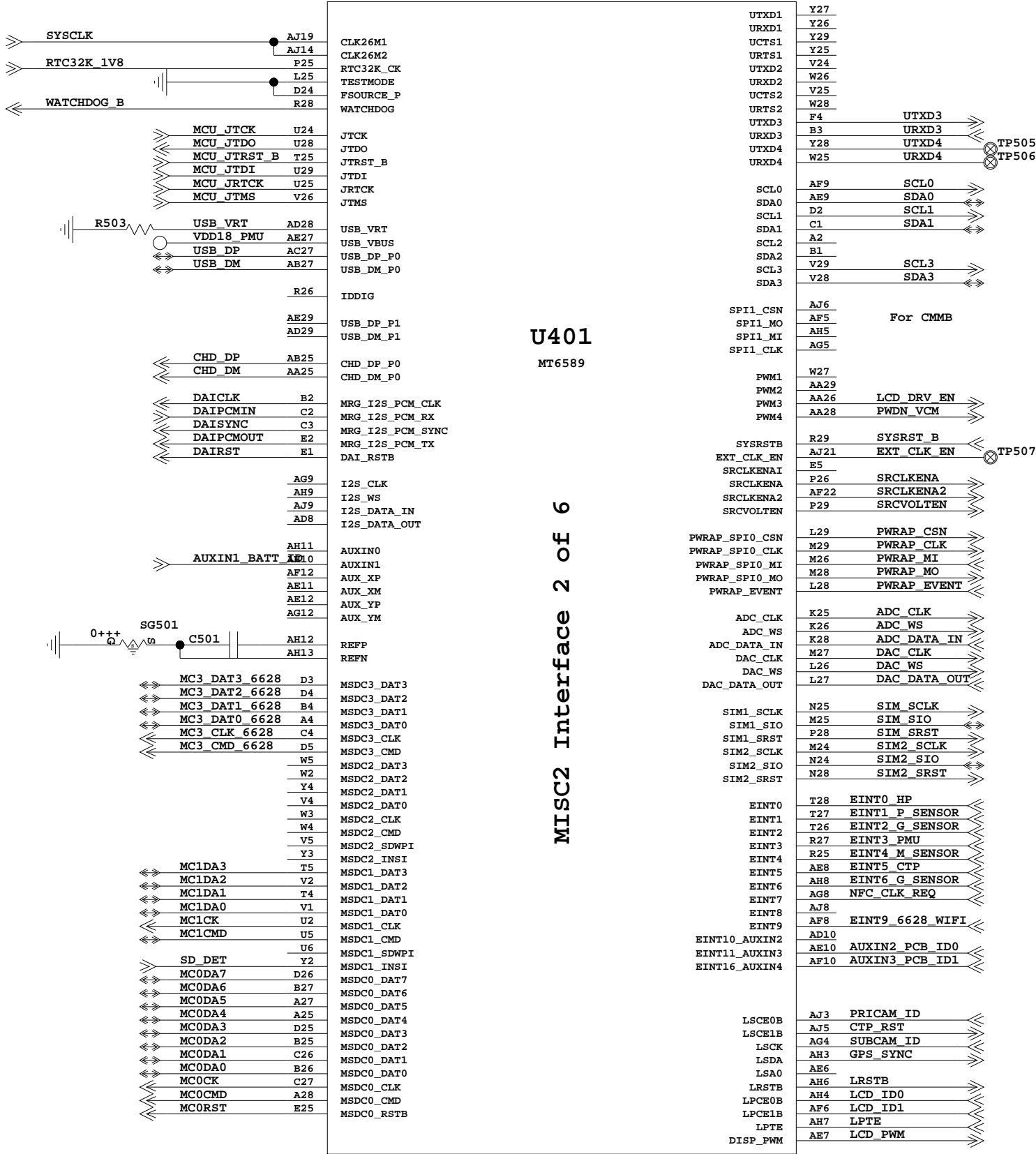
D

A

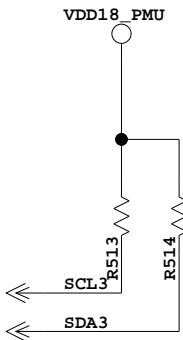
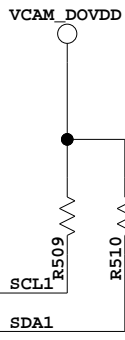
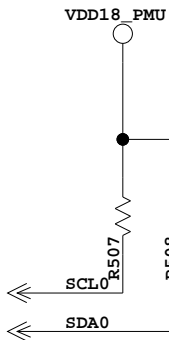
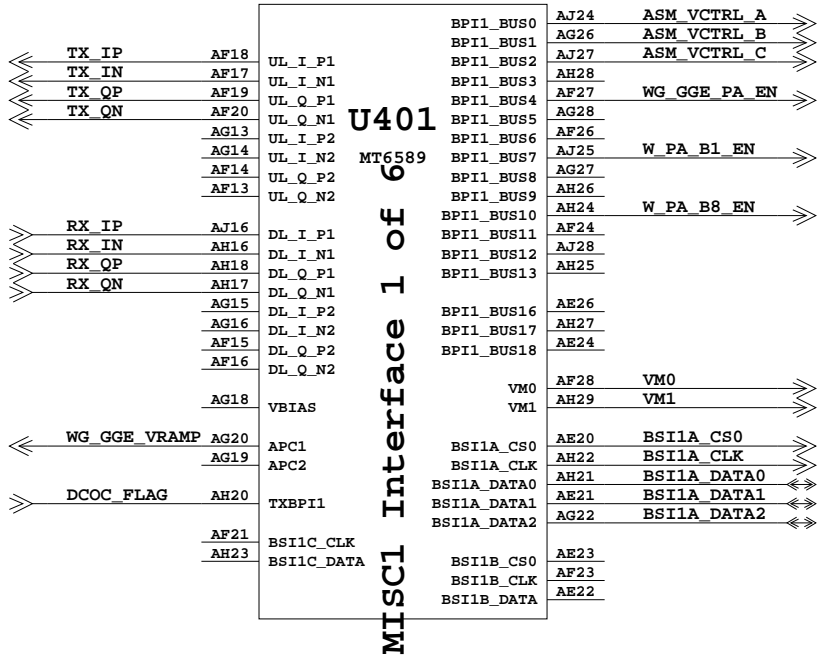
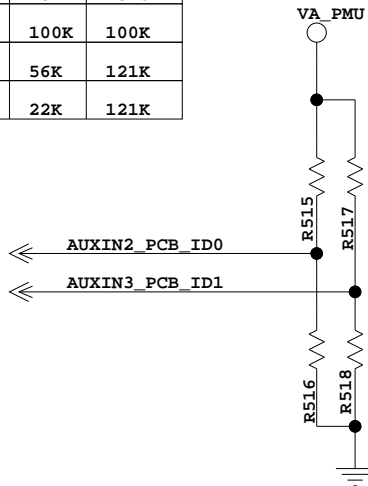
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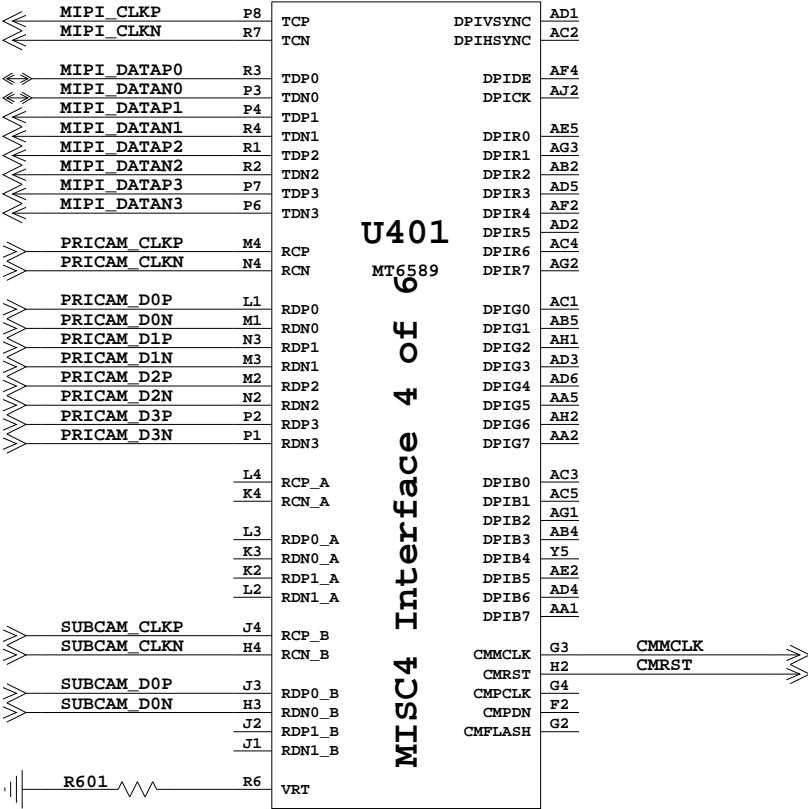
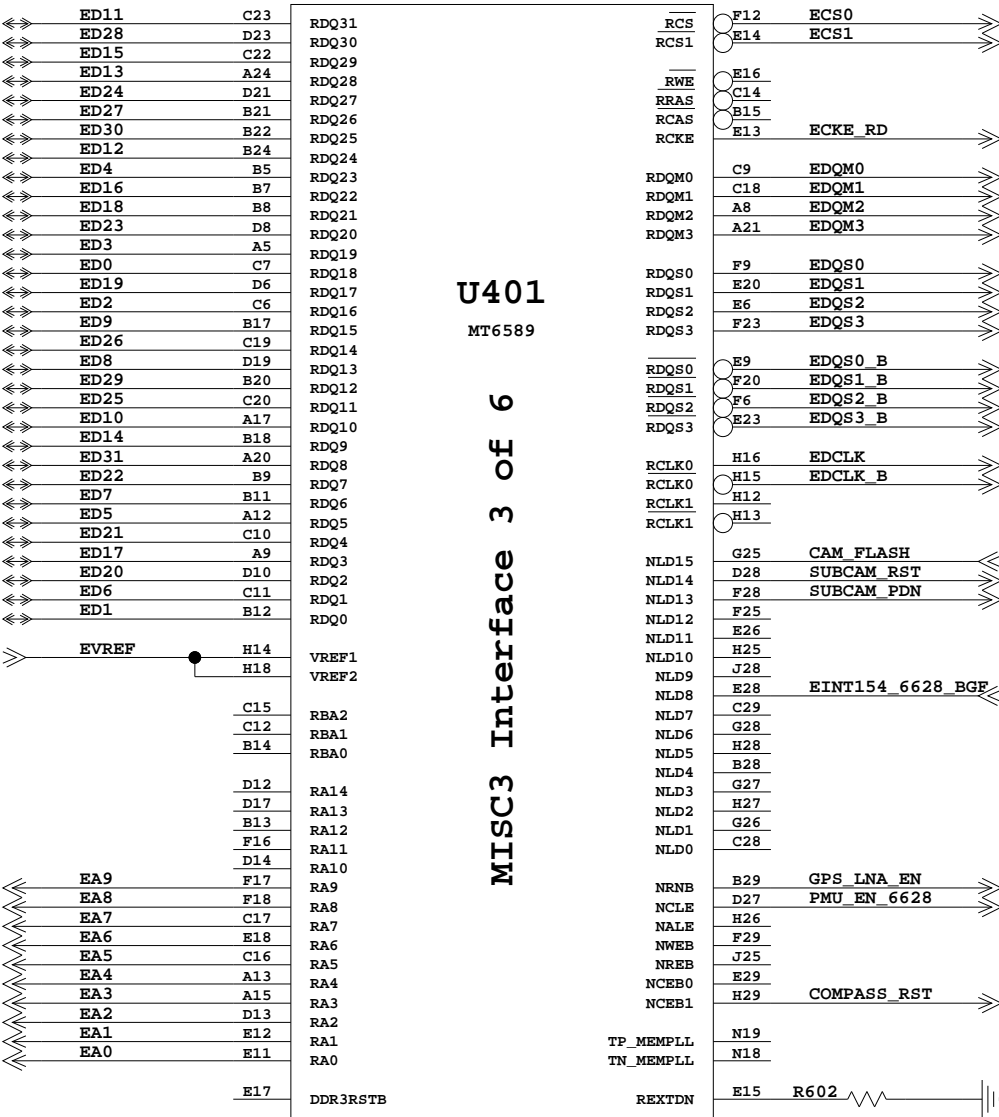
PCB ID	R515	R516	R517	R518
A	121K	56K	100K	100K
B	121K	56K	56K	121K
C	121K	56K	22K	121K



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REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET	5 OF 36
		C	03022ALM	HUAWEI TECH CO.,LTD.	

6. MT6589 High-speed BUS Interface (DDR2,MIPI)

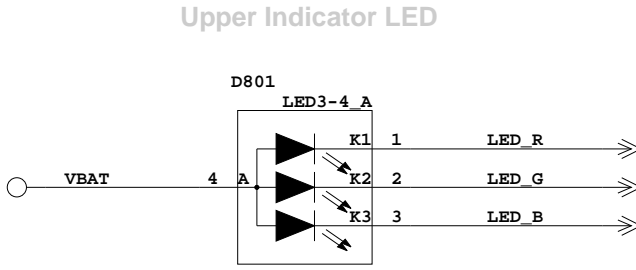
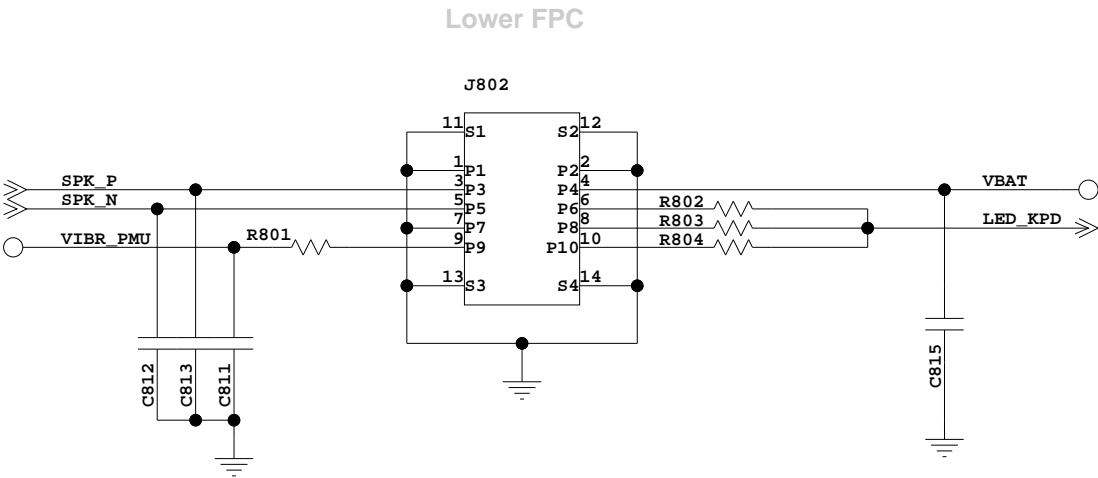
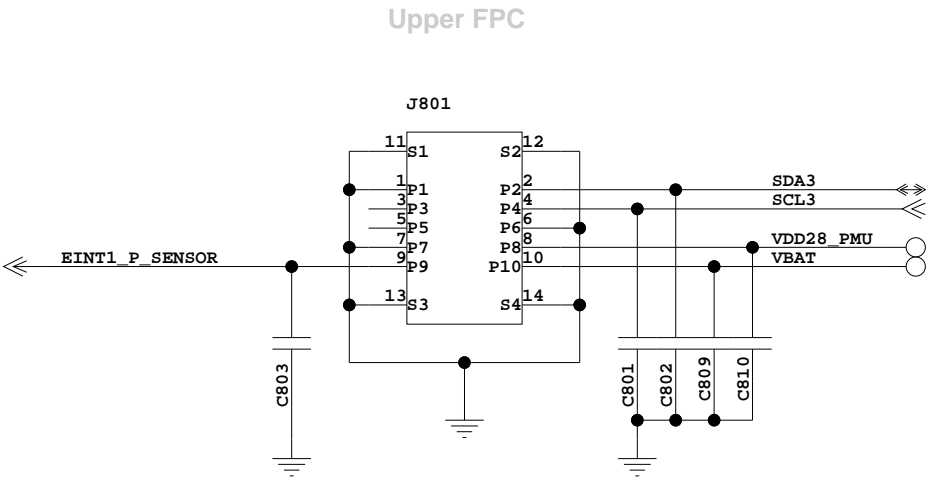


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DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 6 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

1	2	3	4	5	6
7. Reserved (MT6168)					
A					
B					
C					
D					
The type and specification of the components refer to the BOM					
				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 7 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	
1	2	3	4	5	6

8. Peripheral FPC Interface/Indicator LED

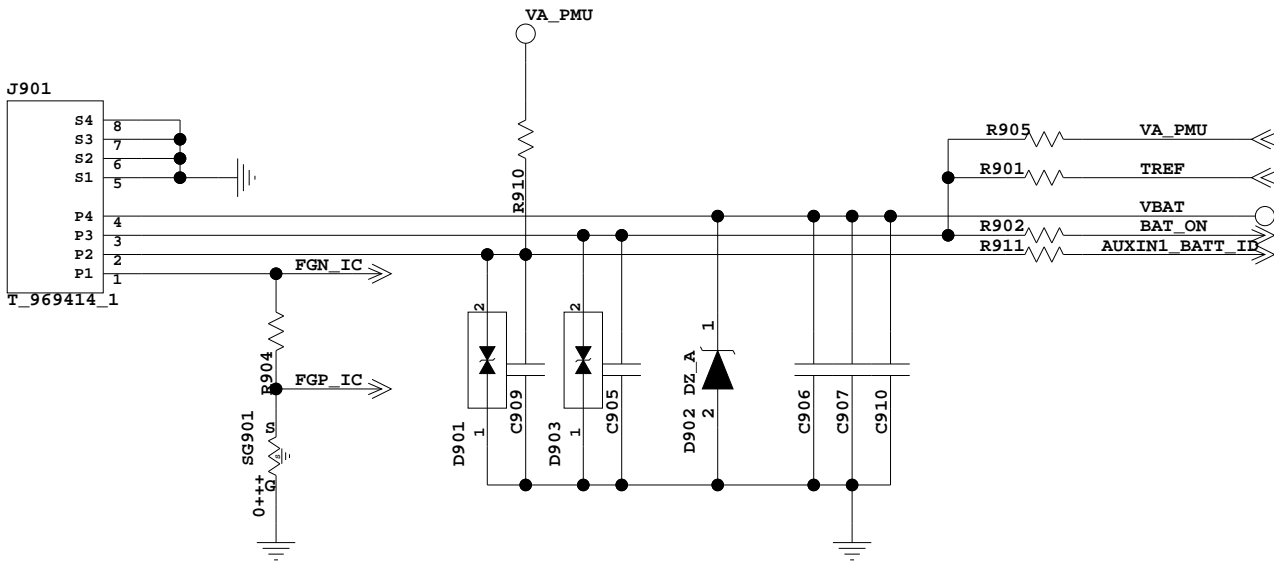


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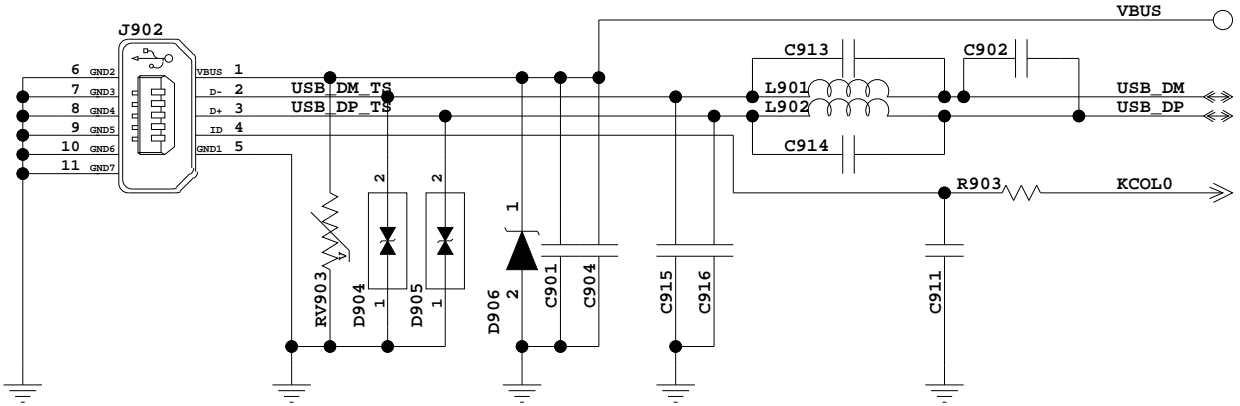
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DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 8 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

9. Battery/USB/Charger

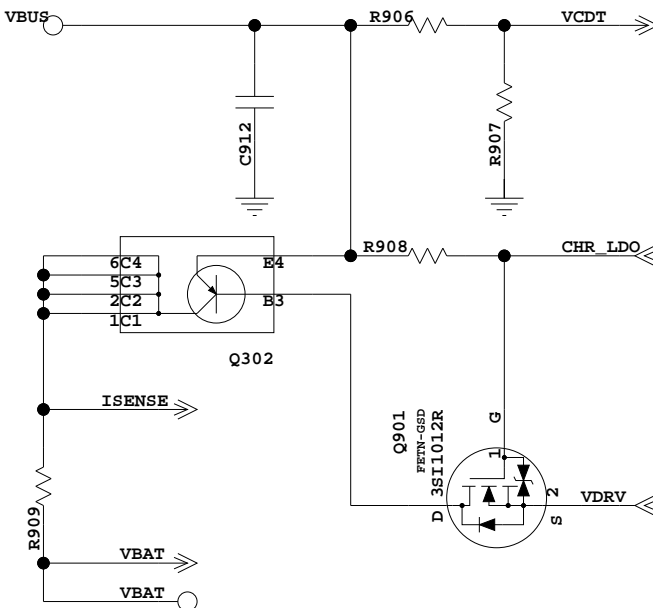
Battery Connector



Micro USB Connector



Linear charger



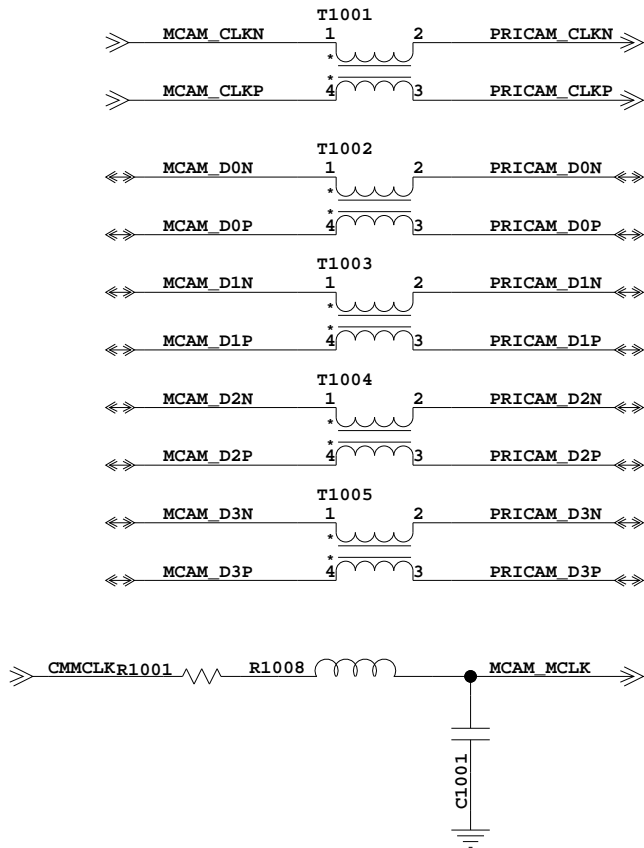
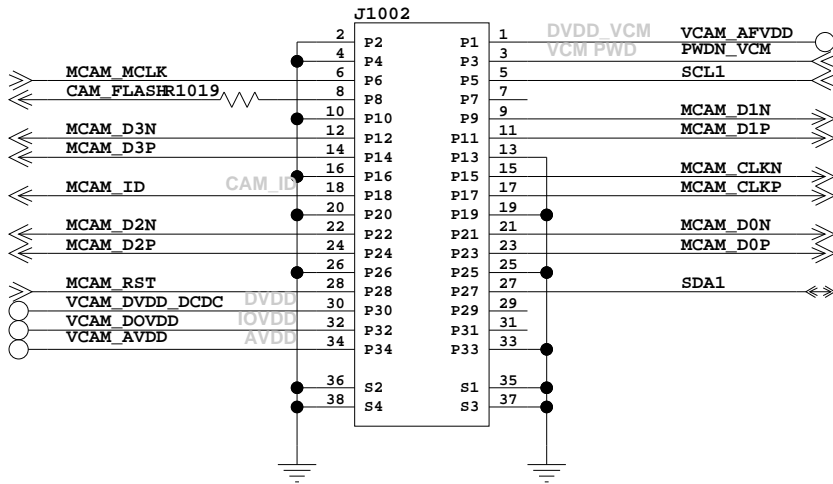
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REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 9 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

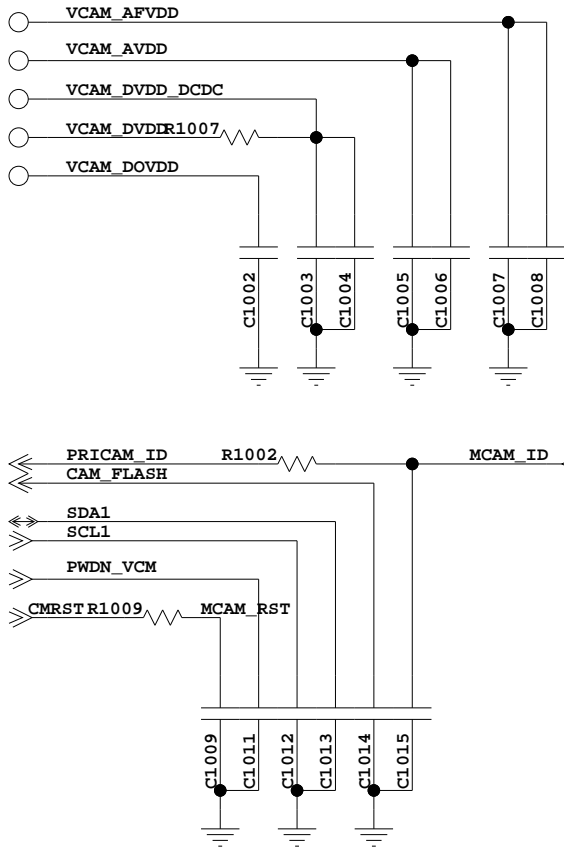
10. Main Camera/Slave Camera

Main Camera

8M MAIN CAMERA 23060XXX

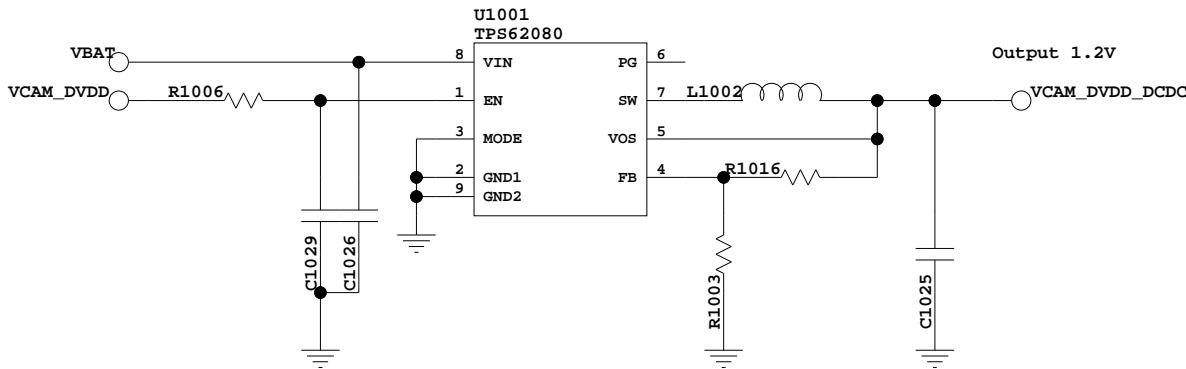
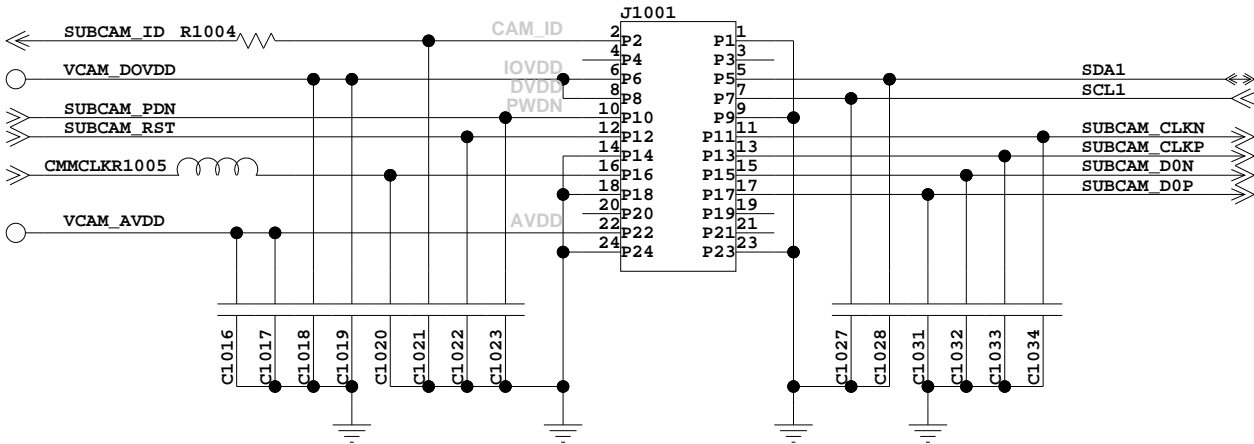


Main Camera Power



Slave Camera

1M SLAVE CAMERA 23060074(23060075)

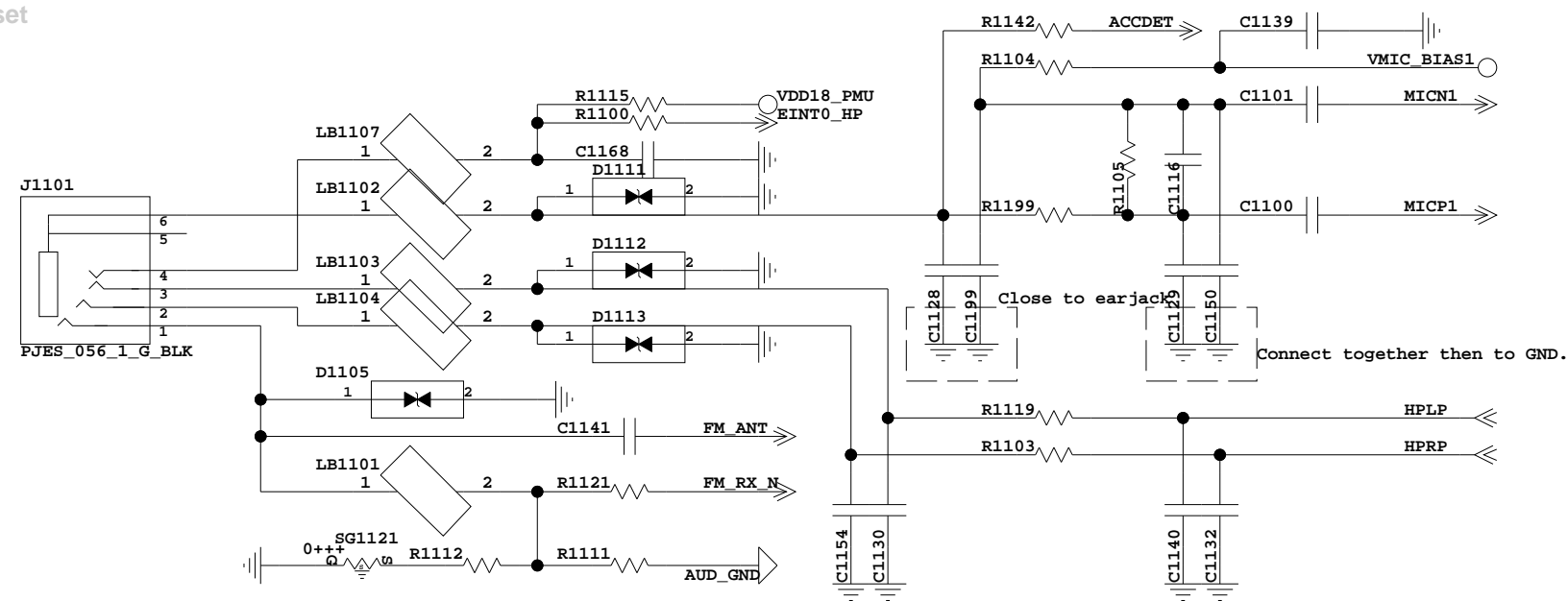


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		VER	PART_NUMBER	SHEET 10 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

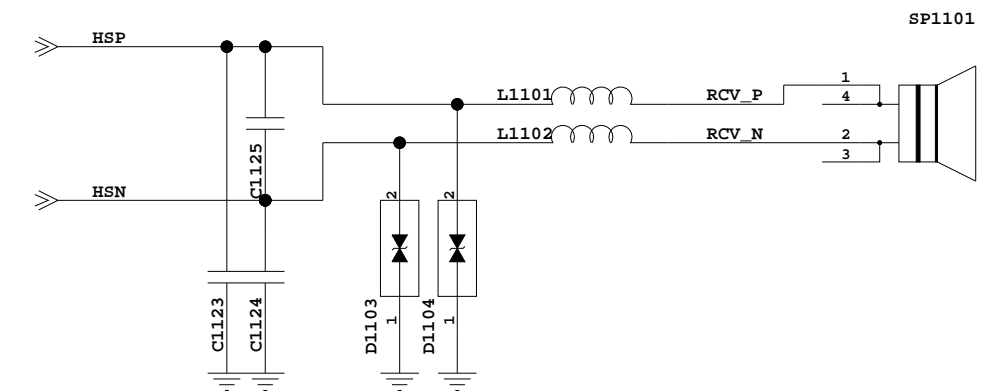
A

Headset

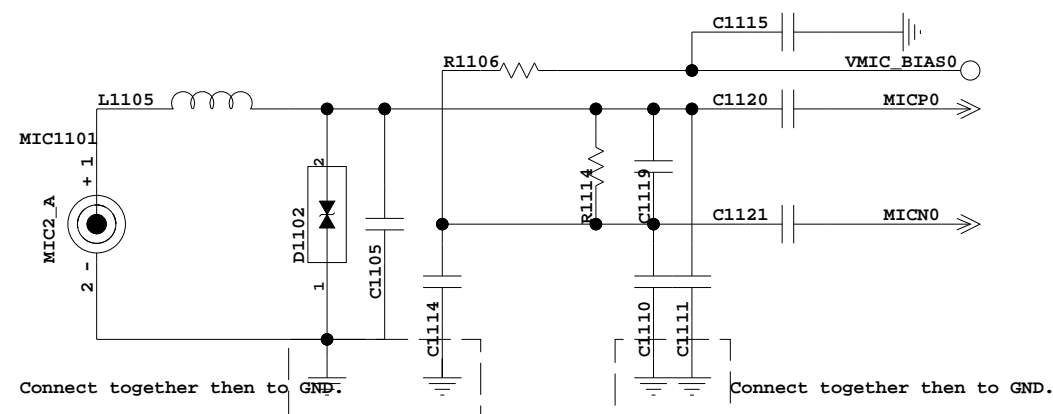


Place near audio jack. Offer far-chip gnd for differential input.

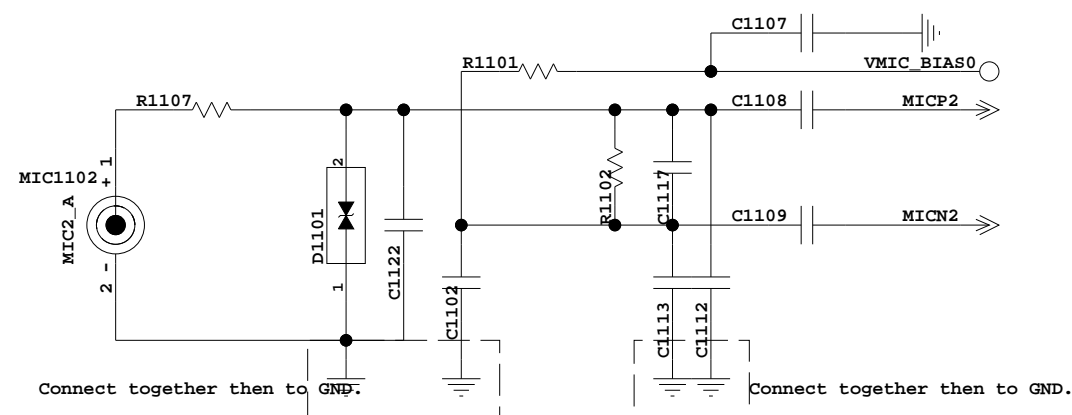
Receiver



Main MIC



Slave MIC



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				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 11 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

A

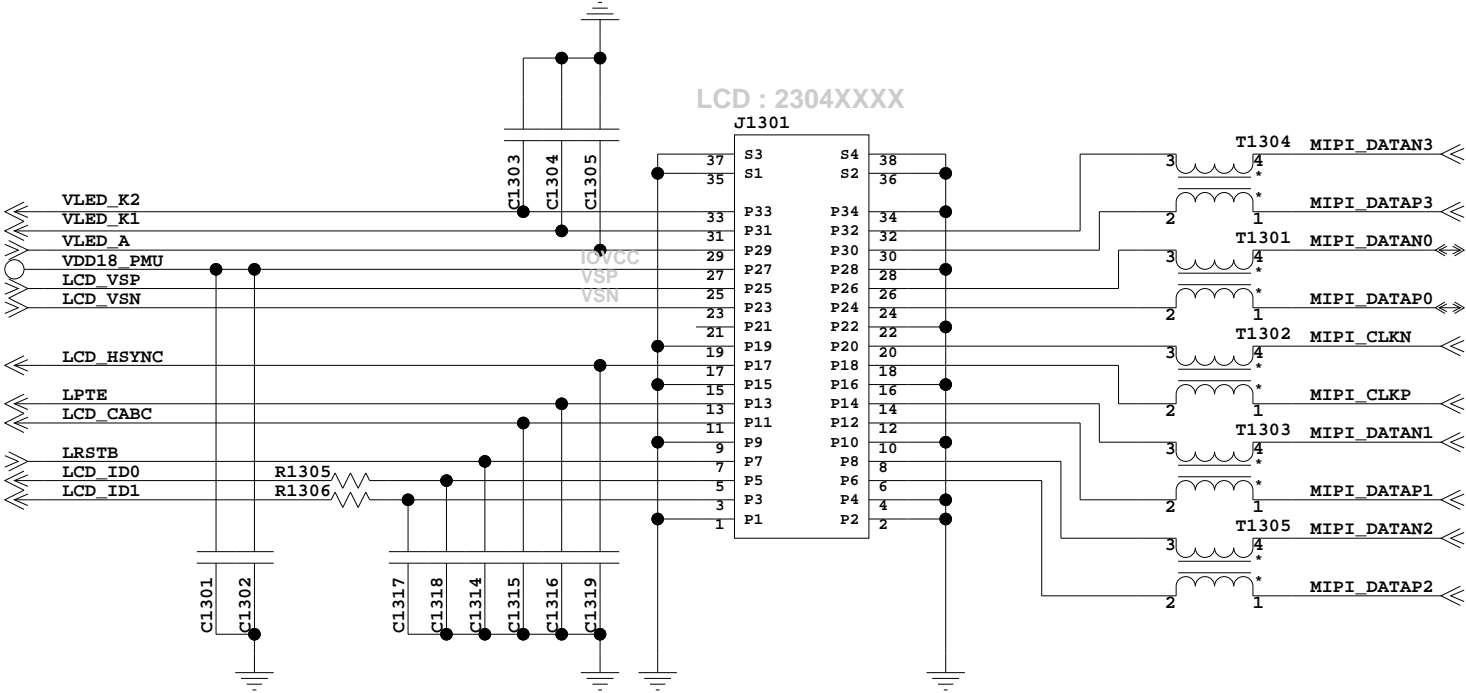
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C

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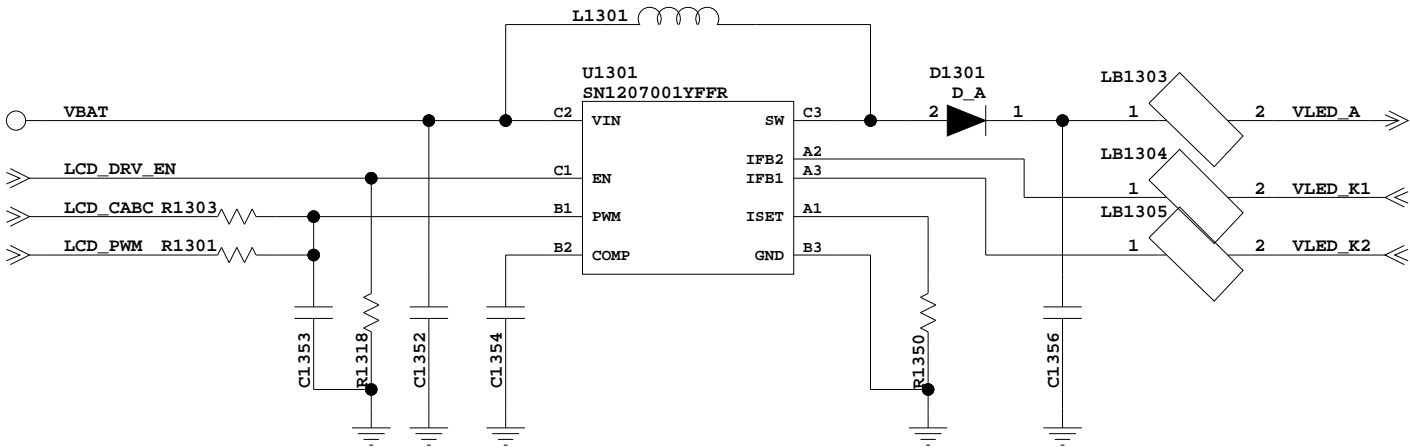
13. LCD/LCD Power

LCD

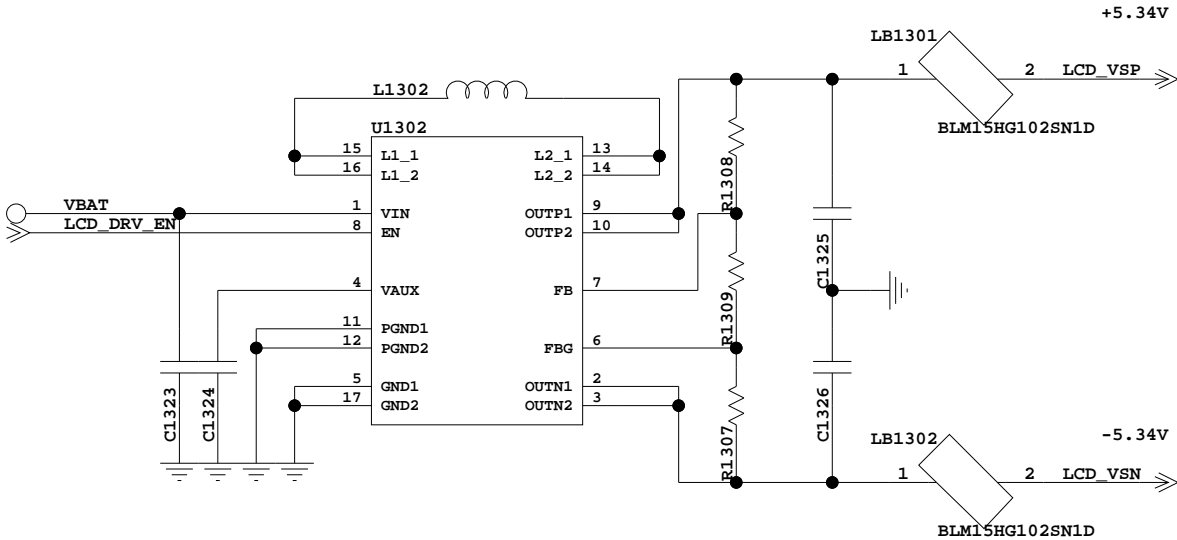


LCD Backlight Driver

Replace bead if having antenna interference problems



LCD Bias Vlotage Driver



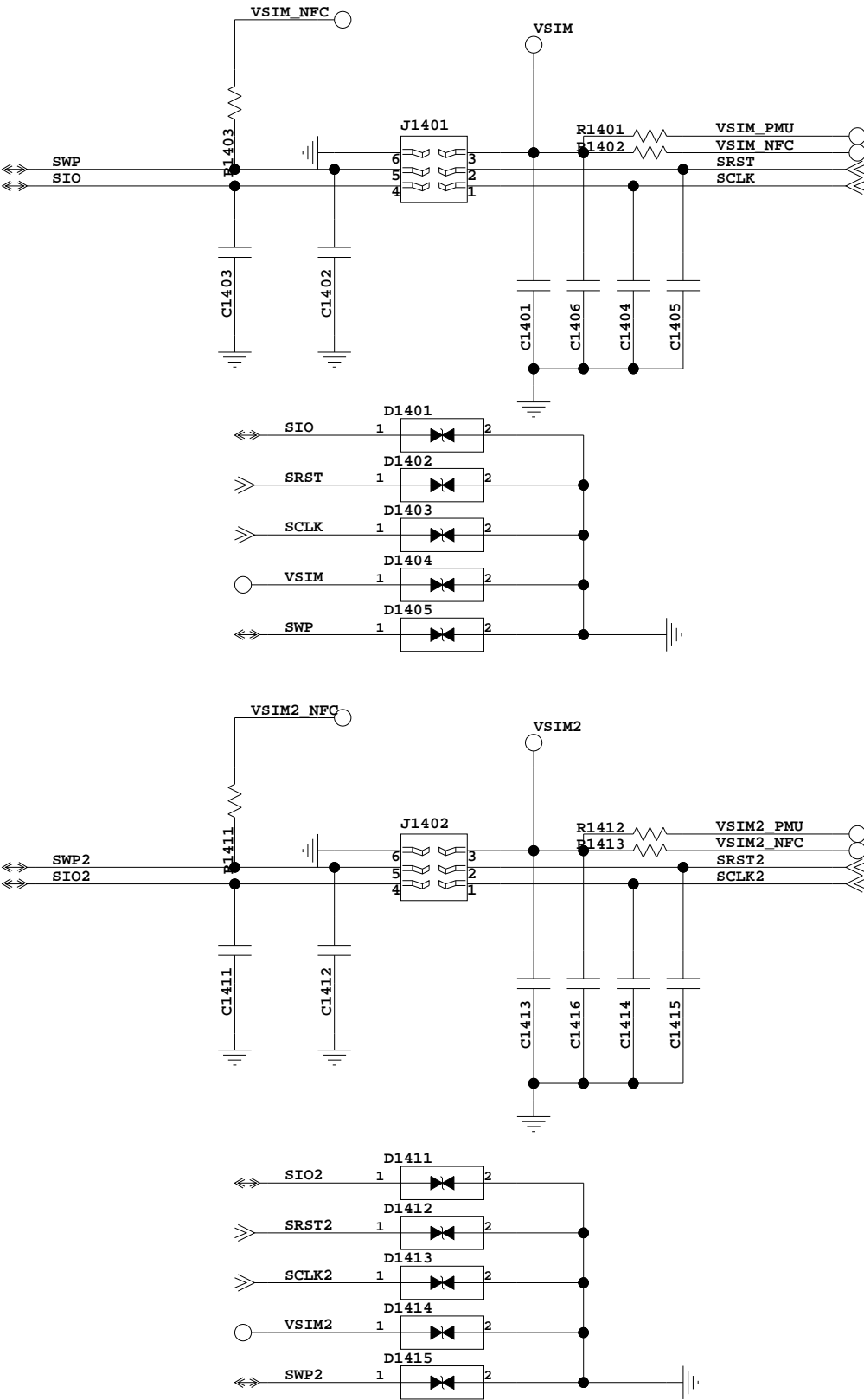
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REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 13 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

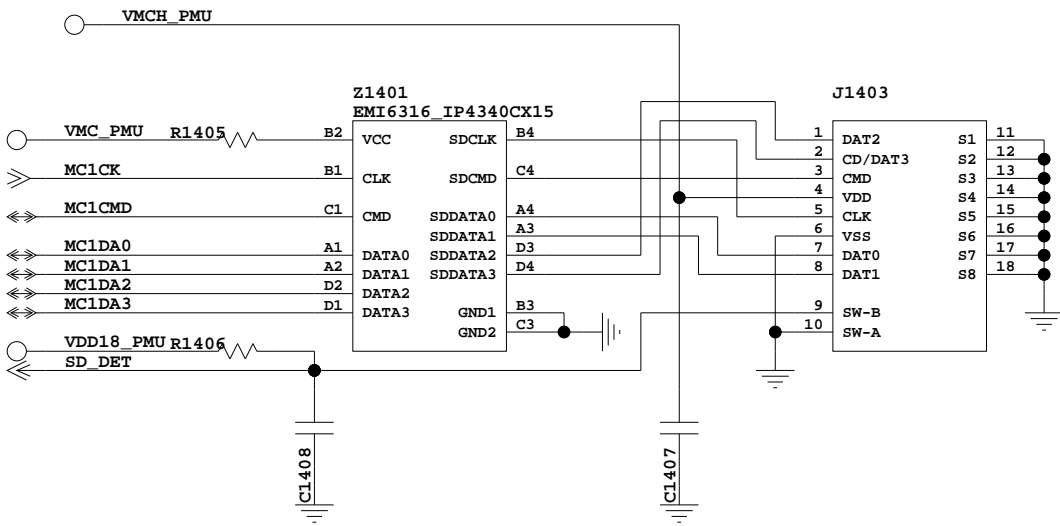
14. SIM/Micro SD Card

SIM1 Card

Without NFC: Remove R1403,C1402,D1402 & related signals(VSIM_NFC,SWP).
VSIM_IN connected to VSIM_PMU through R1401



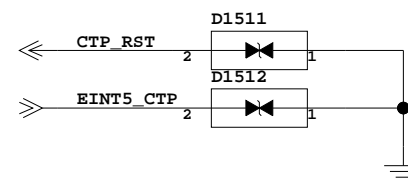
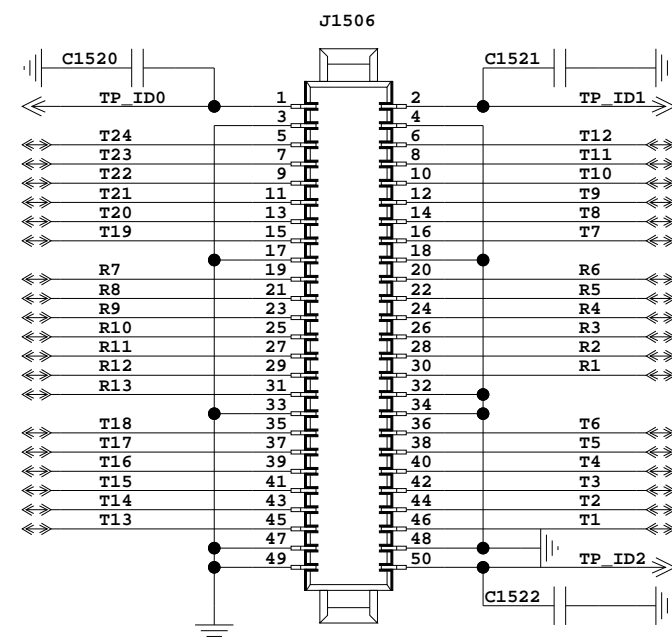
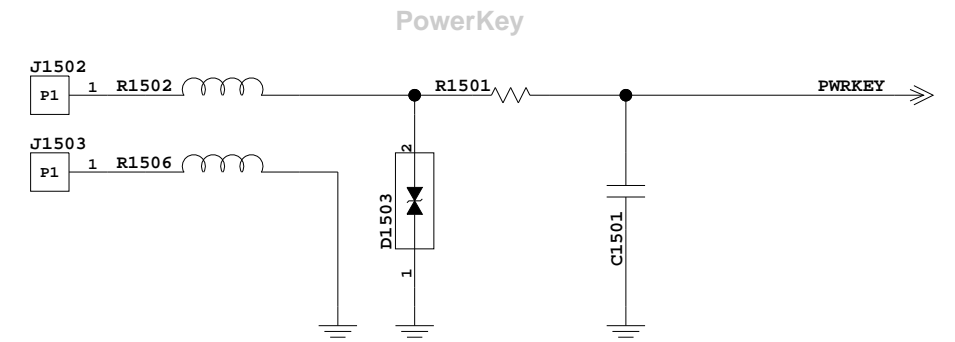
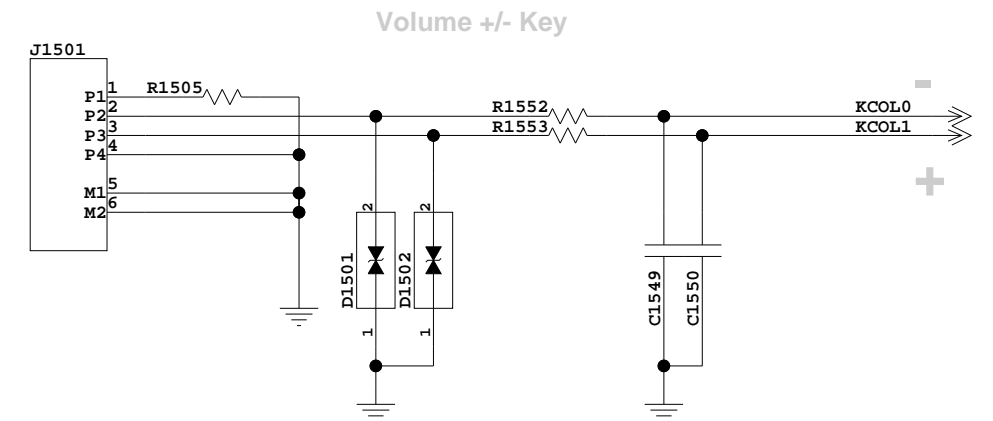
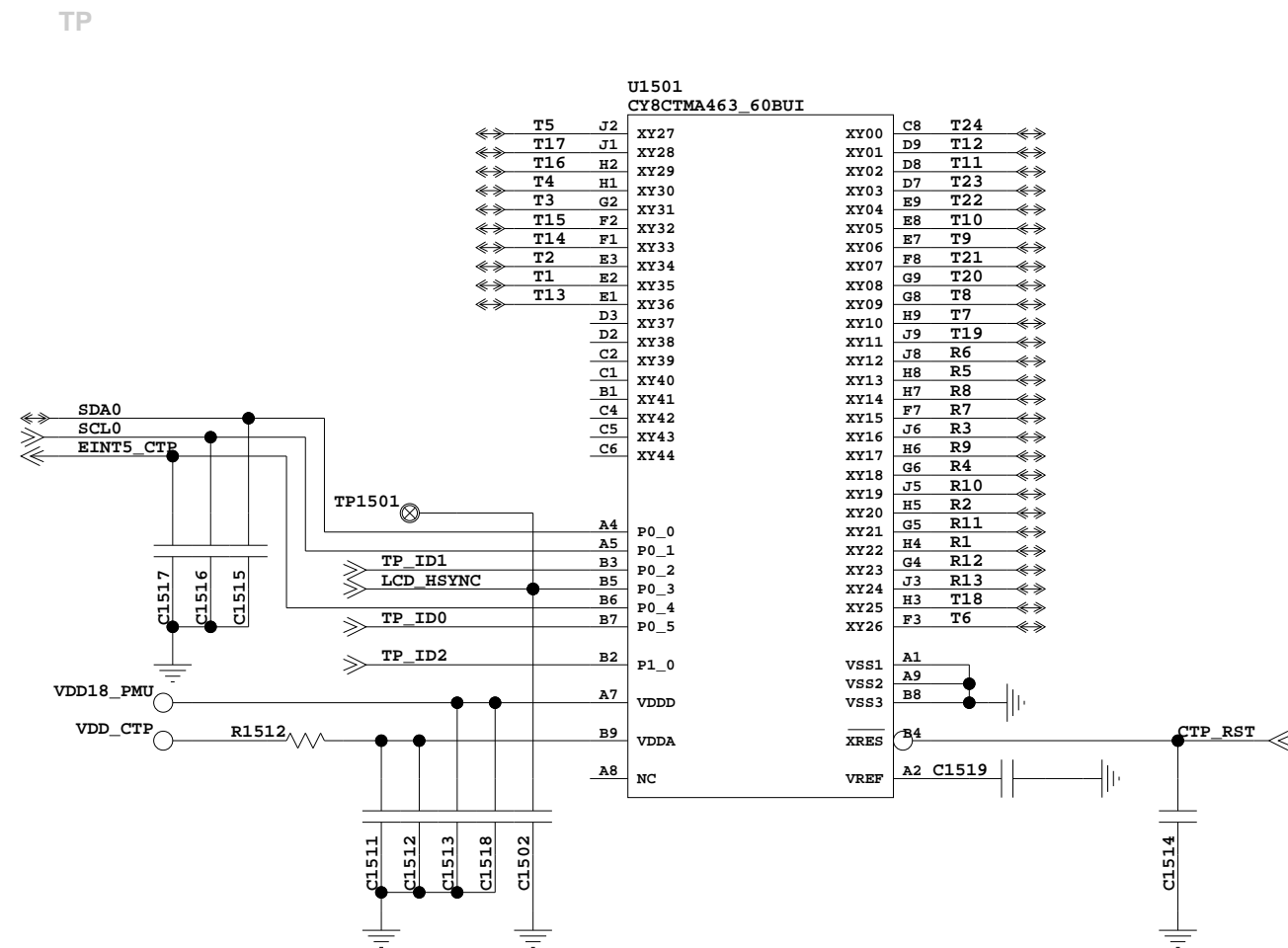
Micro SD Card



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 14 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

15. CTP/Side Key (vloume,power)

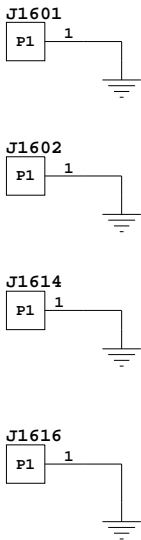


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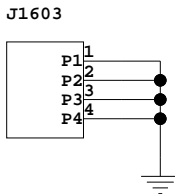
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REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 15 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

16. Shield

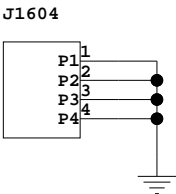
Front housing GND spring.



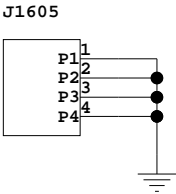
P-Sensor FPC holder.



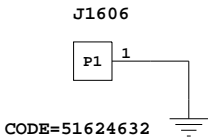
SIM1 holder



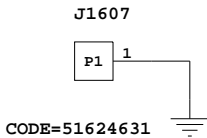
SIM2 holder



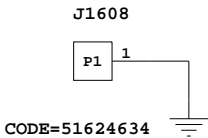
BB shielding



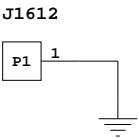
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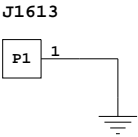
4 in 1 shielding



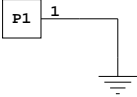
LCD power shielding



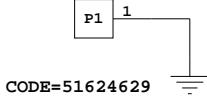
LCD power shielding



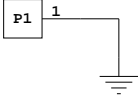
J1609



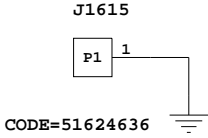
J1610



J1611



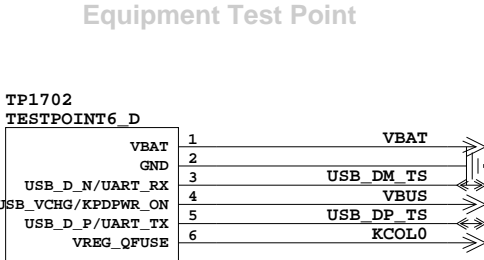
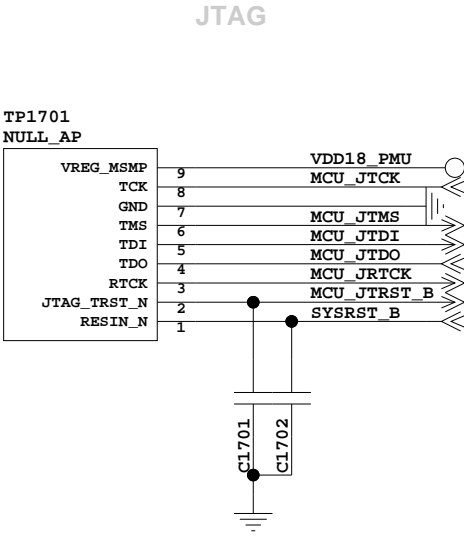
GPS LNA shielding



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				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 16 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

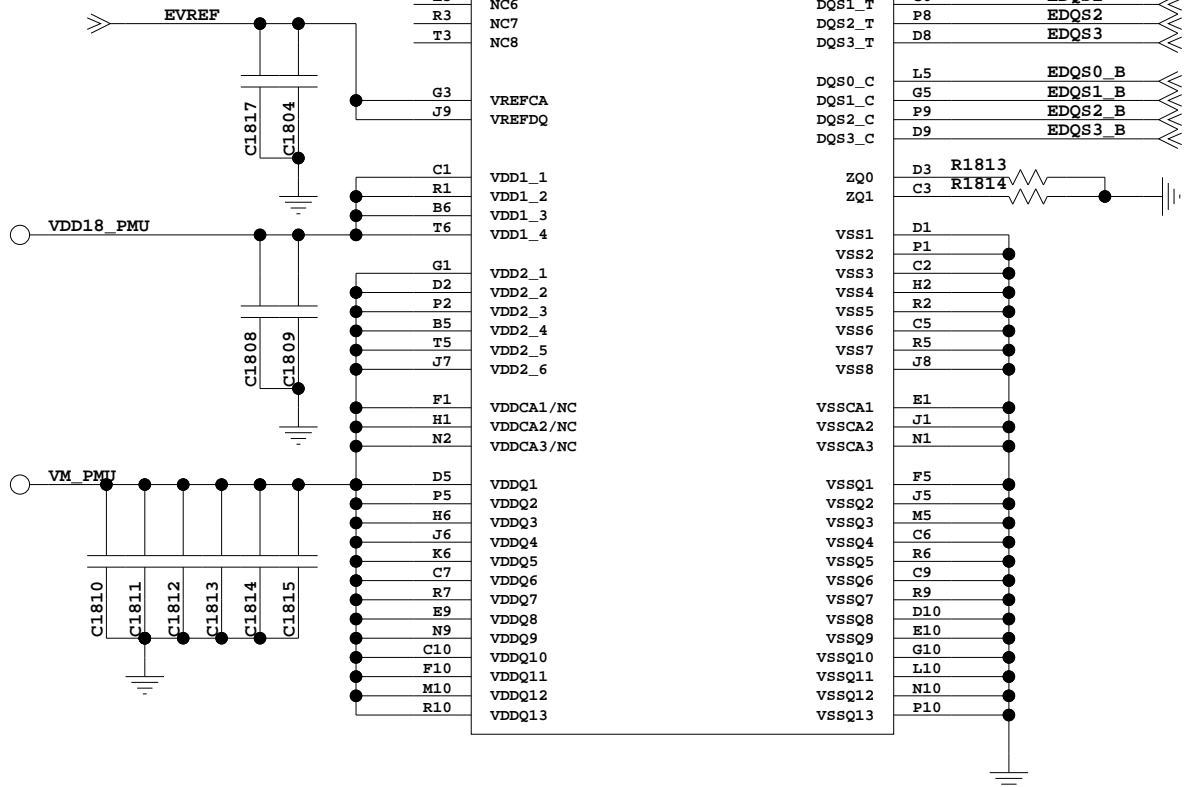
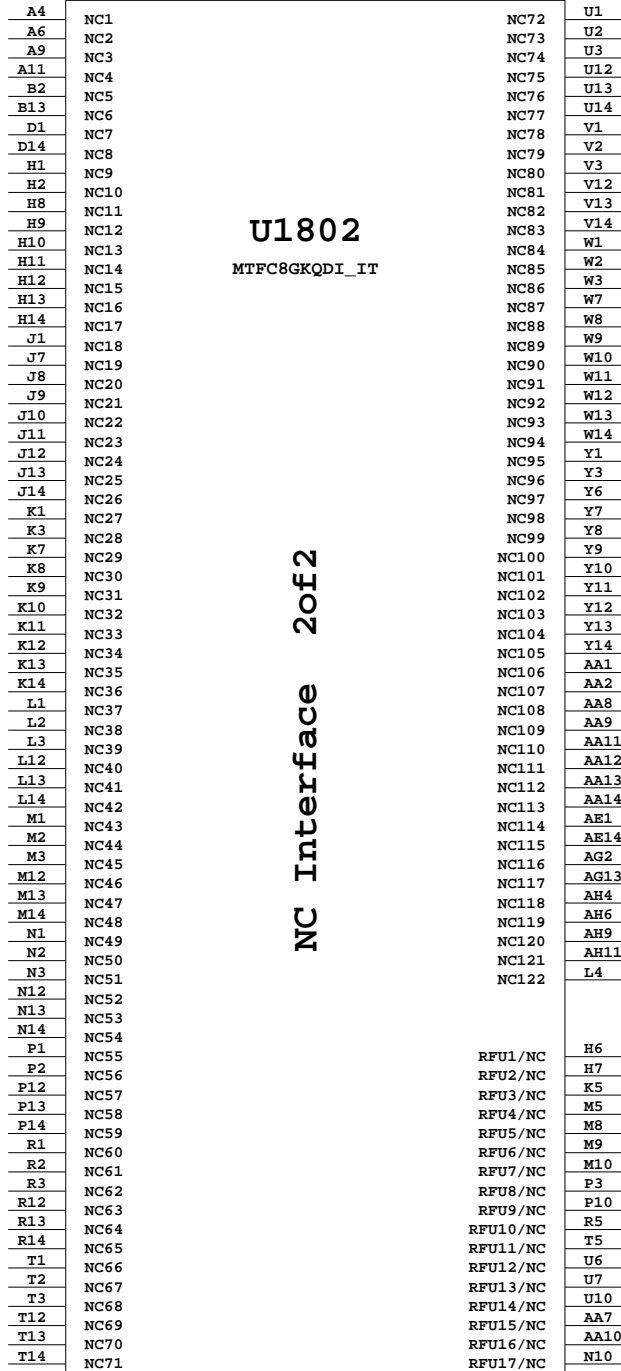
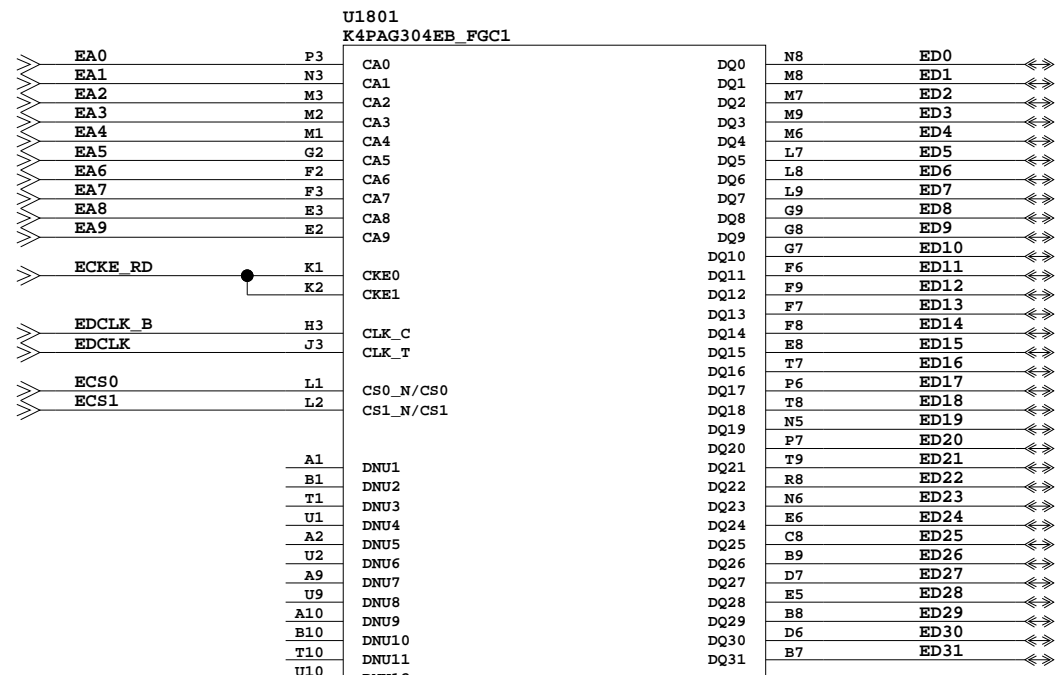
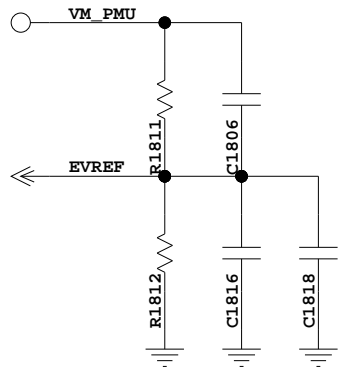
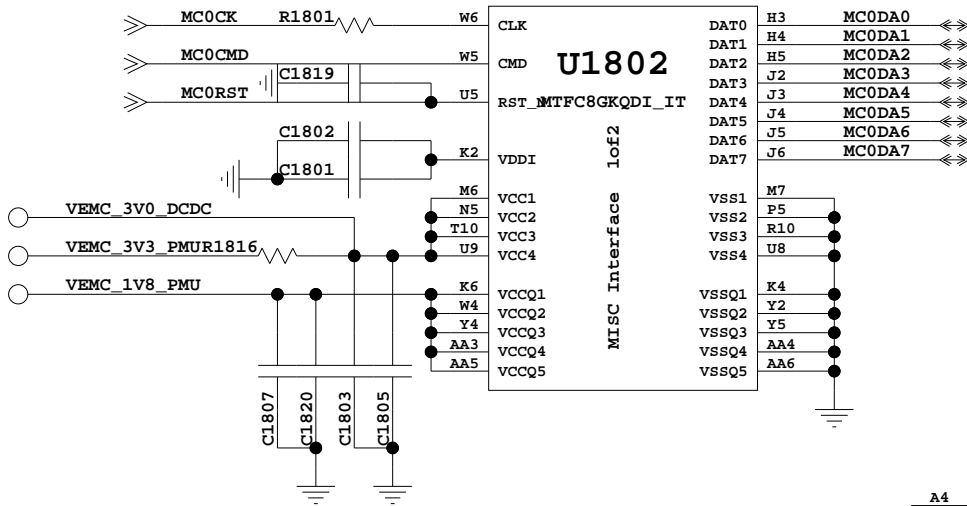
17. Testpoint/JTAG



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 17 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

18. eMMC+LPDDR2



The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 18 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

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5

6

19. Reserved

A

A

B

B

C

C

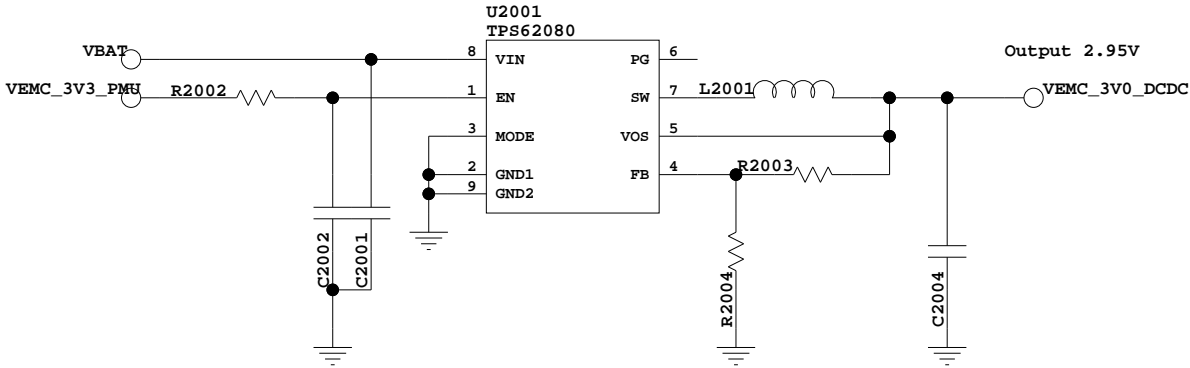
D

D

The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 19 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

20. eMMC DCDC power

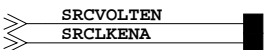
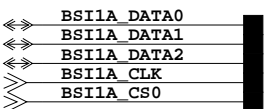
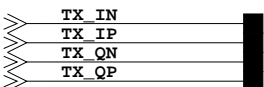
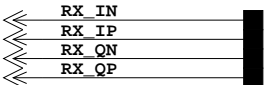
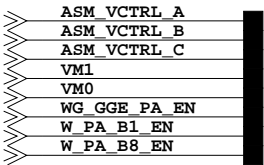
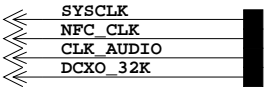


The type and specification of the components refer to the BOM

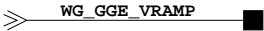
				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 20 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

21. RF Input Output Ports

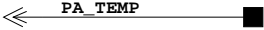
26MHz SYSCLK Output



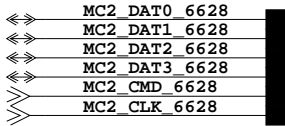
VRAMP Control



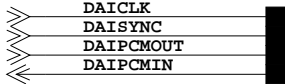
PA Temp Sense



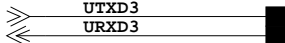
MT6628 SDIO : Used for WLAN Data & Control



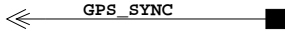
MT6628 PCM : Used for BT Data



MT6628 UART : Used for BT,GPS,FM Control



MT6628 AGPS SYNC



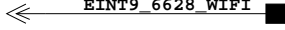
MT6628 GPS LNA Enable



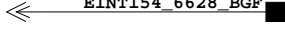
MT6628 PMU Enable



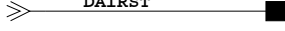
MT6628 WLAN Interrupt



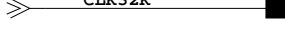
MT6628 BT,GPS,FM Interrupt



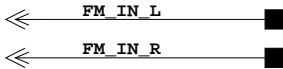
MT6628 Reset Signal



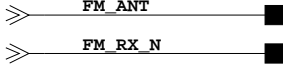
MT6628 32KHz Clk Input



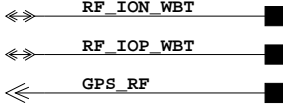
MT6628 FM Audio



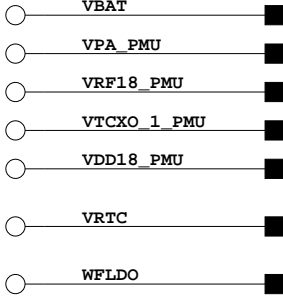
MT6628 FM RF



MT6628 WIFI/BT RF



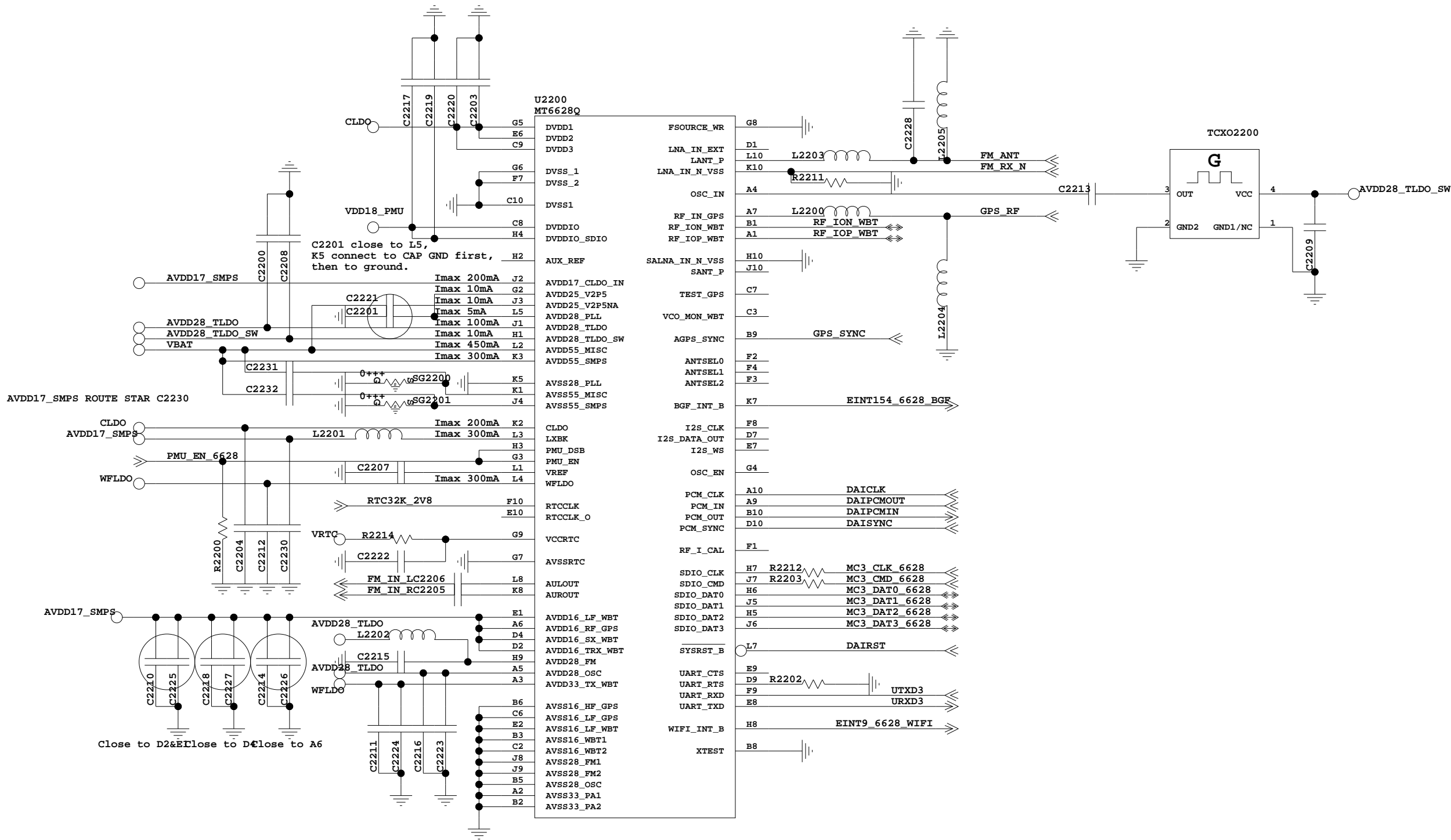
RF Device Power



The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 21 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

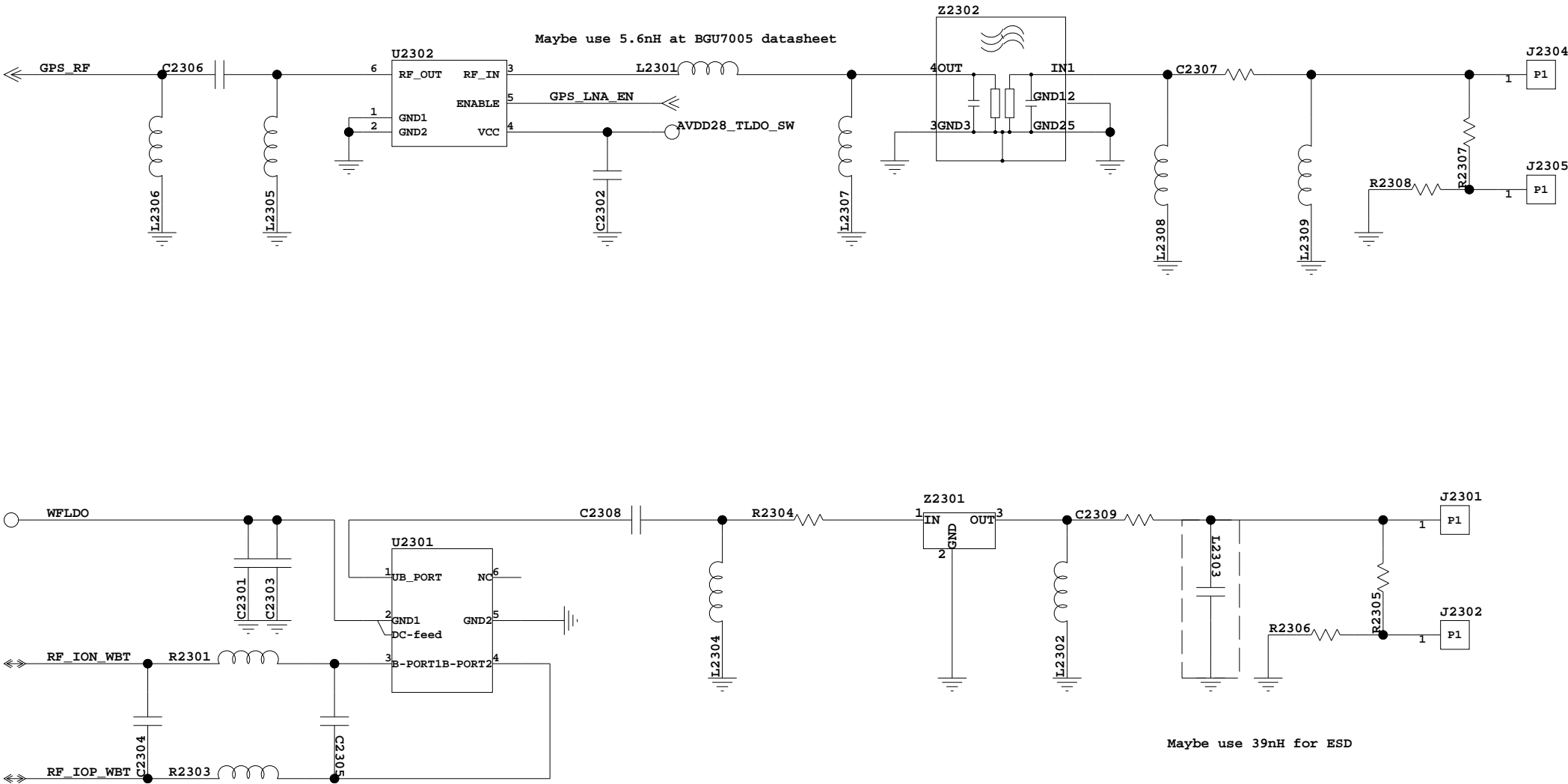
22. WIFI/BT/FM/GPS MT6628Q



The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 22 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

23.WIFI/BT/FM/GPS MT6628Q



The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 23 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

24. TD/GSM PAM

The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 24 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

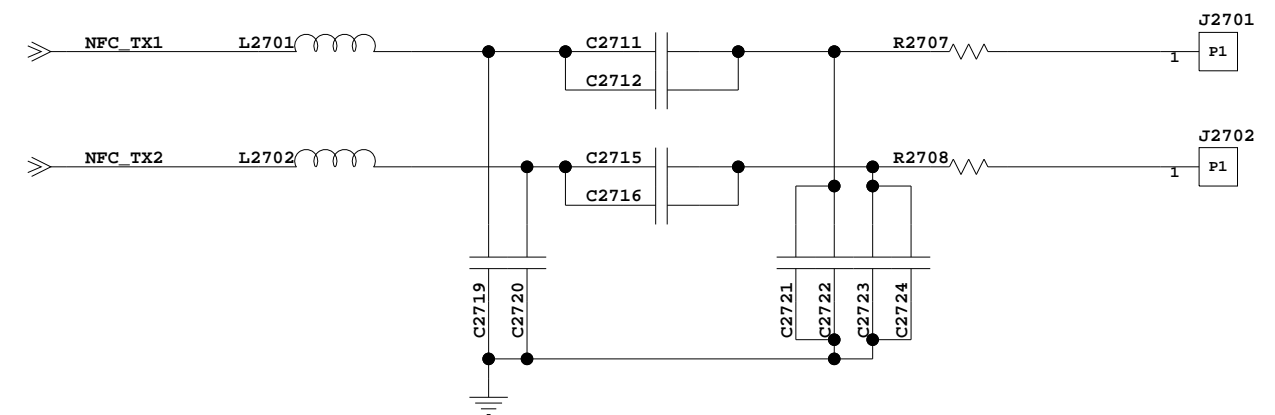
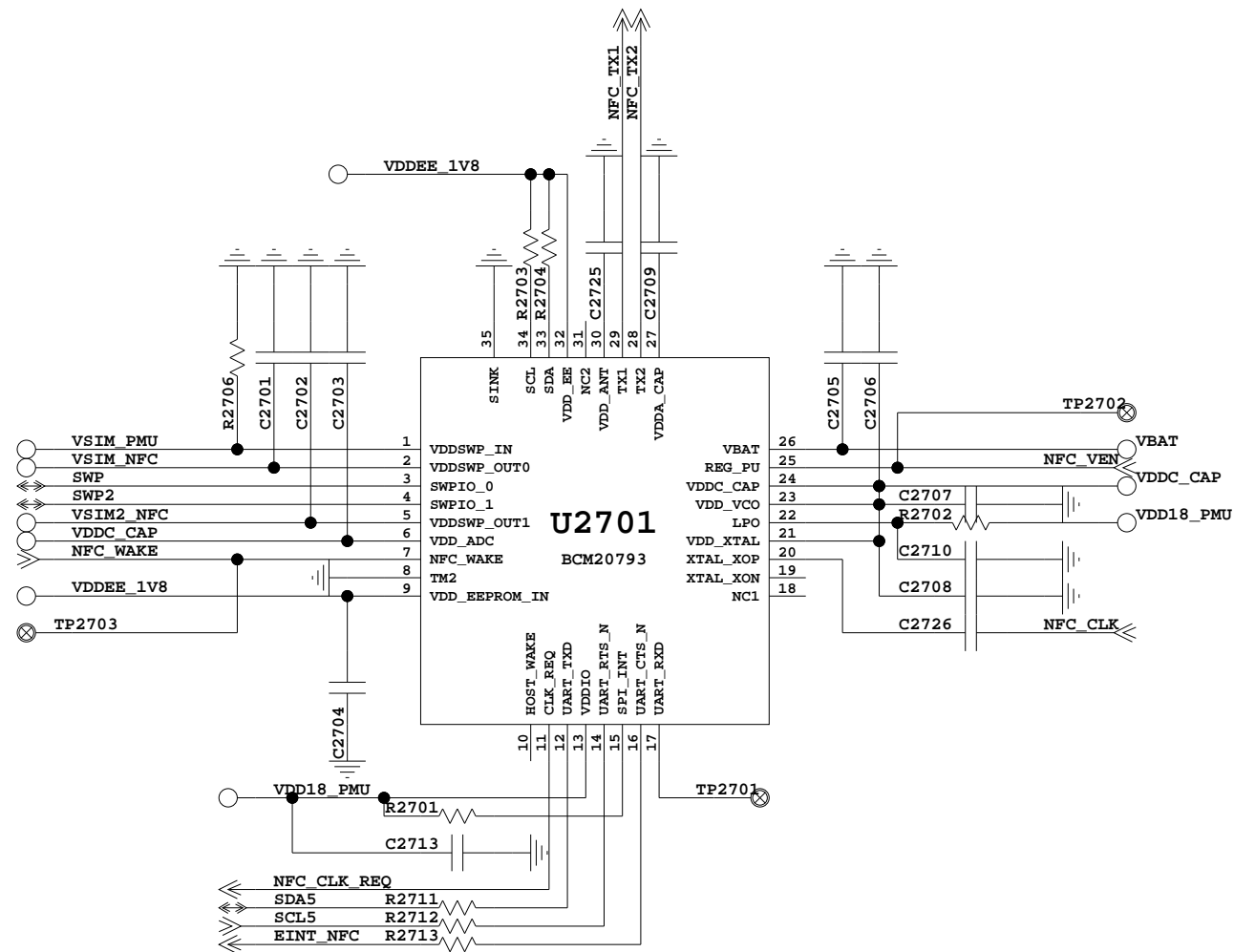
25. TD/GSM RX

The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 25 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

1	2	3	4	5	6
26. Reserved					
A					A
B					B
C					C
D					D
The type and specification of the components refer to the BOM					
				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 26 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	
1	2	3	4	5	6

27. NFC 20793



The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 27 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

1

2

3

4

5

6

28. Reserved

A

A

B

B

C

C

D

D

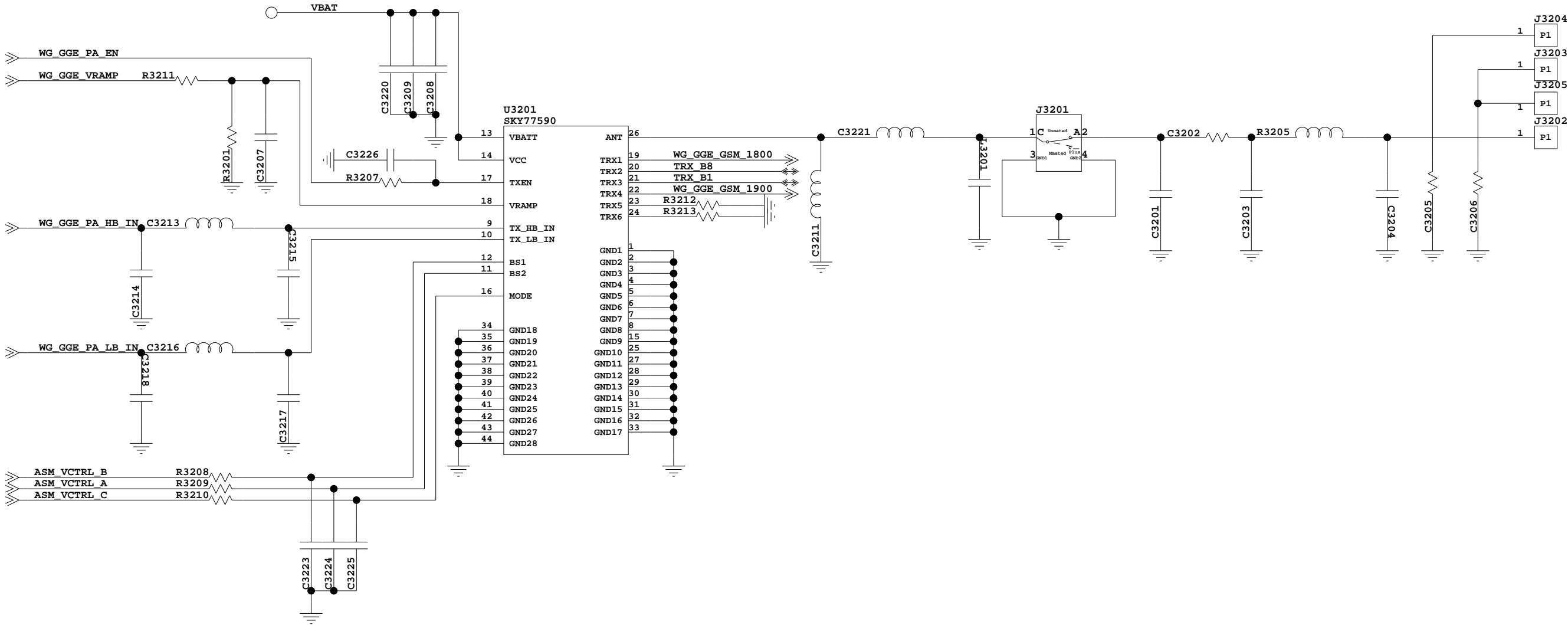
The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 28 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

1	2	3	4	5	6
29. Reserved					
A					A
B					B
C					C
D					D
The type and specification of the components refer to the BOM					
				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 29 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	
1	2	3	4	5	6

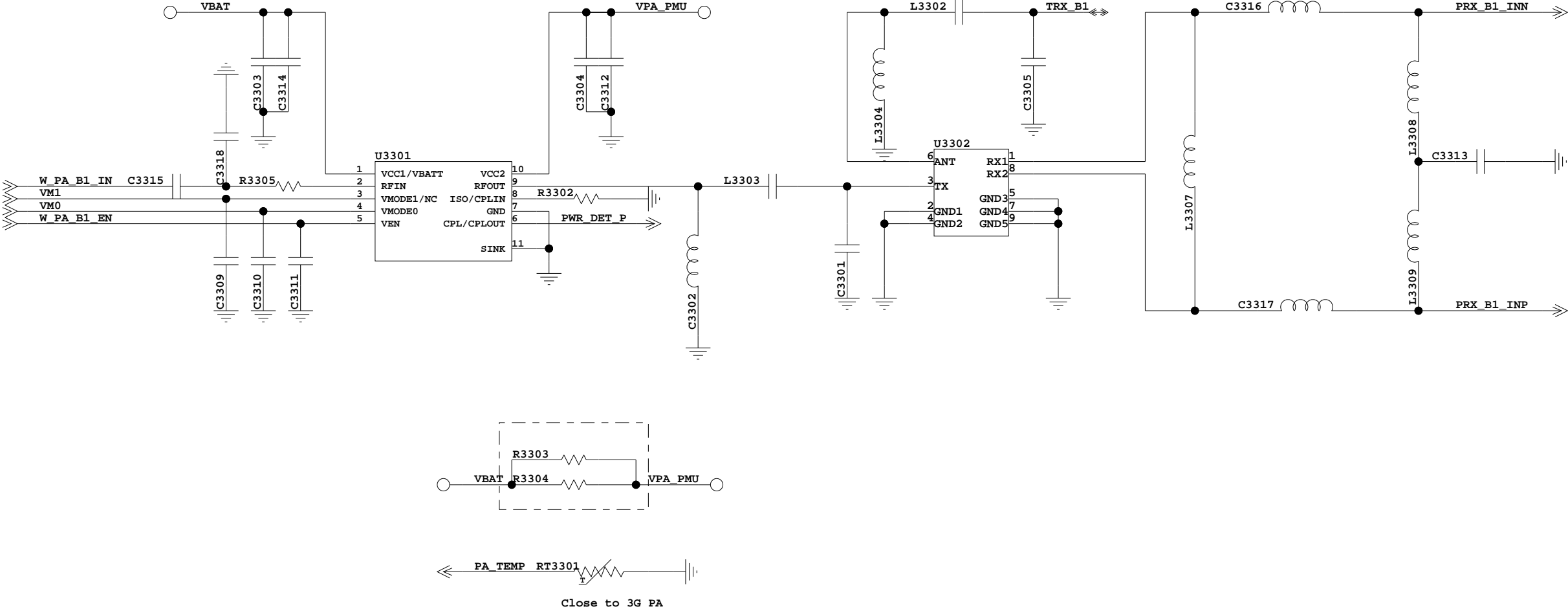
1	2	3	4	5	6																																		
A	30. Reserved																																						
B																																							
C																																							
D	<div>The type and specification of the components refer to the BOM</div> <table><tr><td></td><td></td><td></td><td></td><td>NA</td><td>2013-03-07</td></tr><tr><td></td><td></td><td></td><td></td><td>ECA NO</td><td>DATE</td></tr><tr><td>DESIGNED</td><td>XUBO 00114100</td><td colspan="2" rowspan="2">HD2G700M</td><td colspan="2" rowspan="2">6724991_SCH1ZH</td></tr><tr><td>REVIEWED</td><td>QIUHONGBING 62355</td></tr><tr><td></td><td></td><td>VER</td><td>PART_NUMBER</td><td colspan="2">SHEET 30 OF 36</td></tr><tr><td></td><td></td><td rowspan="2">C</td><td rowspan="2">03022ALM</td><td colspan="2" rowspan="2">HUAWEI TECH CO.,LTD.</td></tr><tr><td></td><td></td></tr></table>									NA	2013-03-07					ECA NO	DATE	DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH		REVIEWED	QIUHONGBING 62355			VER	PART_NUMBER	SHEET 30 OF 36				C	03022ALM	HUAWEI TECH CO.,LTD.			
				NA	2013-03-07																																		
				ECA NO	DATE																																		
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH																																			
REVIEWED	QIUHONGBING 62355																																						
		VER	PART_NUMBER	SHEET 30 OF 36																																			
		C	03022ALM	HUAWEI TECH CO.,LTD.																																			
1	2	3	4	5	6																																		

32. UMTS ANT Switch



The type and specification of the components refer to the BOM					
				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 32 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

33. UMTS Band 1



WCDMA_PA_ON0/ON1	PA STATE
H	ON
L	OFF

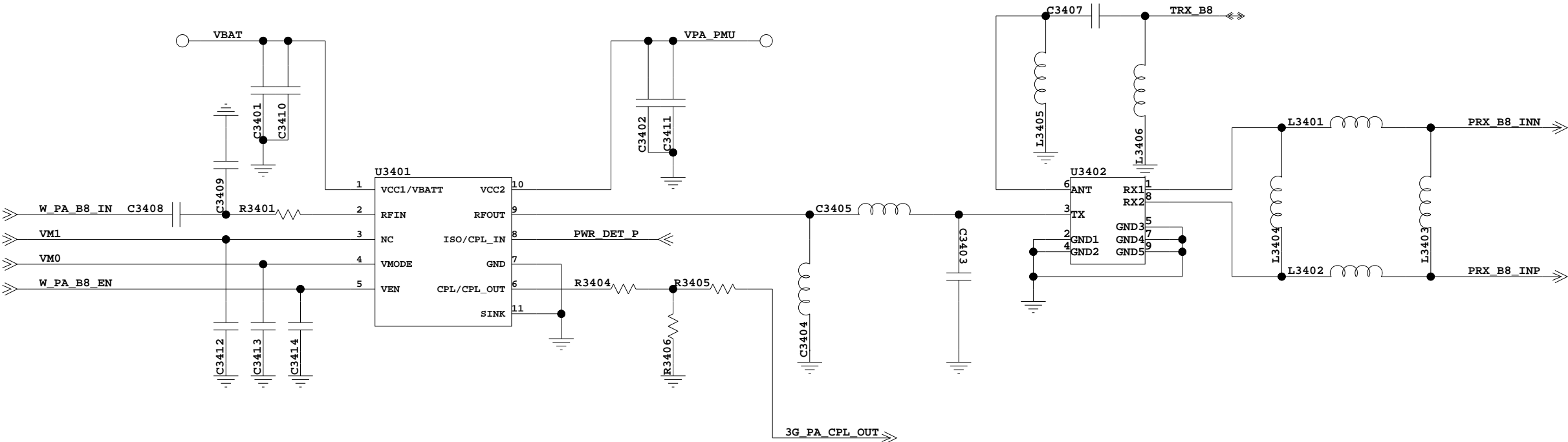
PA_VMODE0	PA_VMODE1	MODE
L	L	High Power
L	H	Middle Power
H	H	Low Power

WCDMA_PA_ON0	W2100
WCDMA_PA_ON1	W1900
WCDMA_PA_ON2	W850/900

The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 33 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

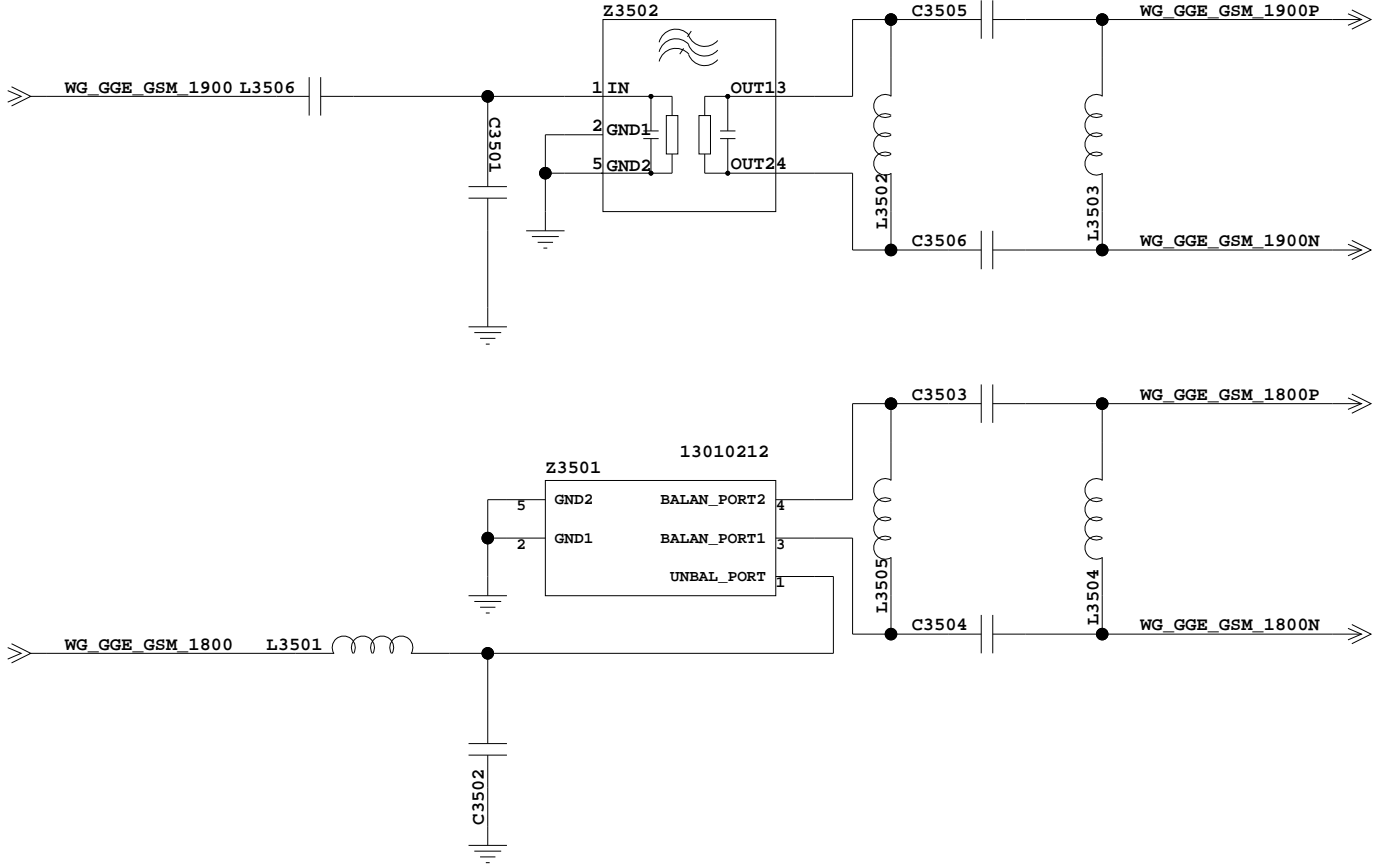
34. UMTS Band 8



The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 34 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

35. RX



The type and specification of the components refer to the BOM

				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 35 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	

1	2	3	4	5	6
36. Reserved (Diversity Path Front End)					
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The type and specification of the components refer to the BOM					
				NA	2013-03-07
				ECA NO	DATE
DESIGNED	XUBO 00114100	HD2G700M		6724991_SCH1ZH	
REVIEWED	QIUHONGBING 62355				
		VER	PART_NUMBER	SHEET 36 OF 36	
		C	03022ALM	HUAWEI TECH CO.,LTD.	
1	2	3	4	5	6