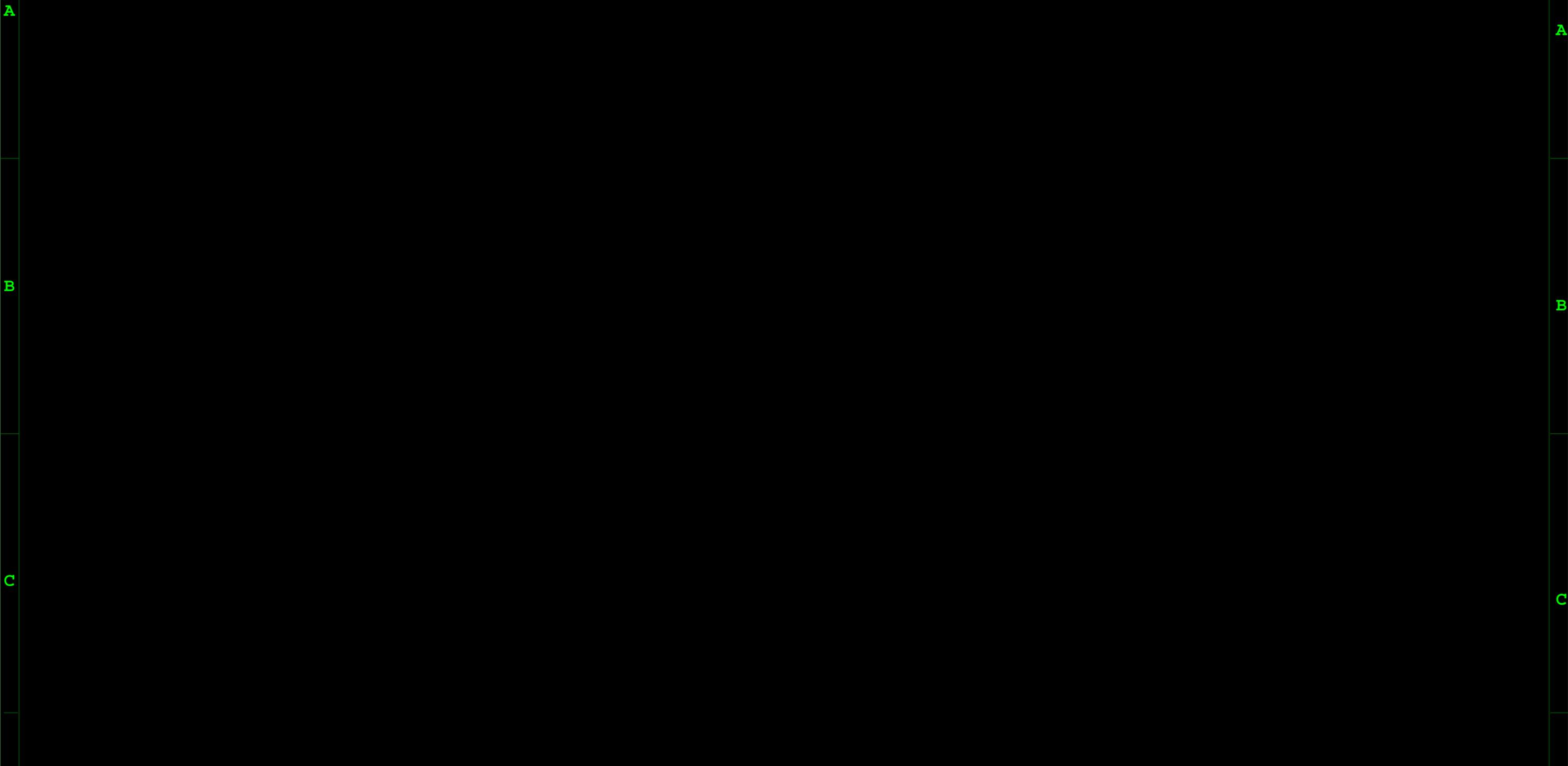


BB SCHEMETIC

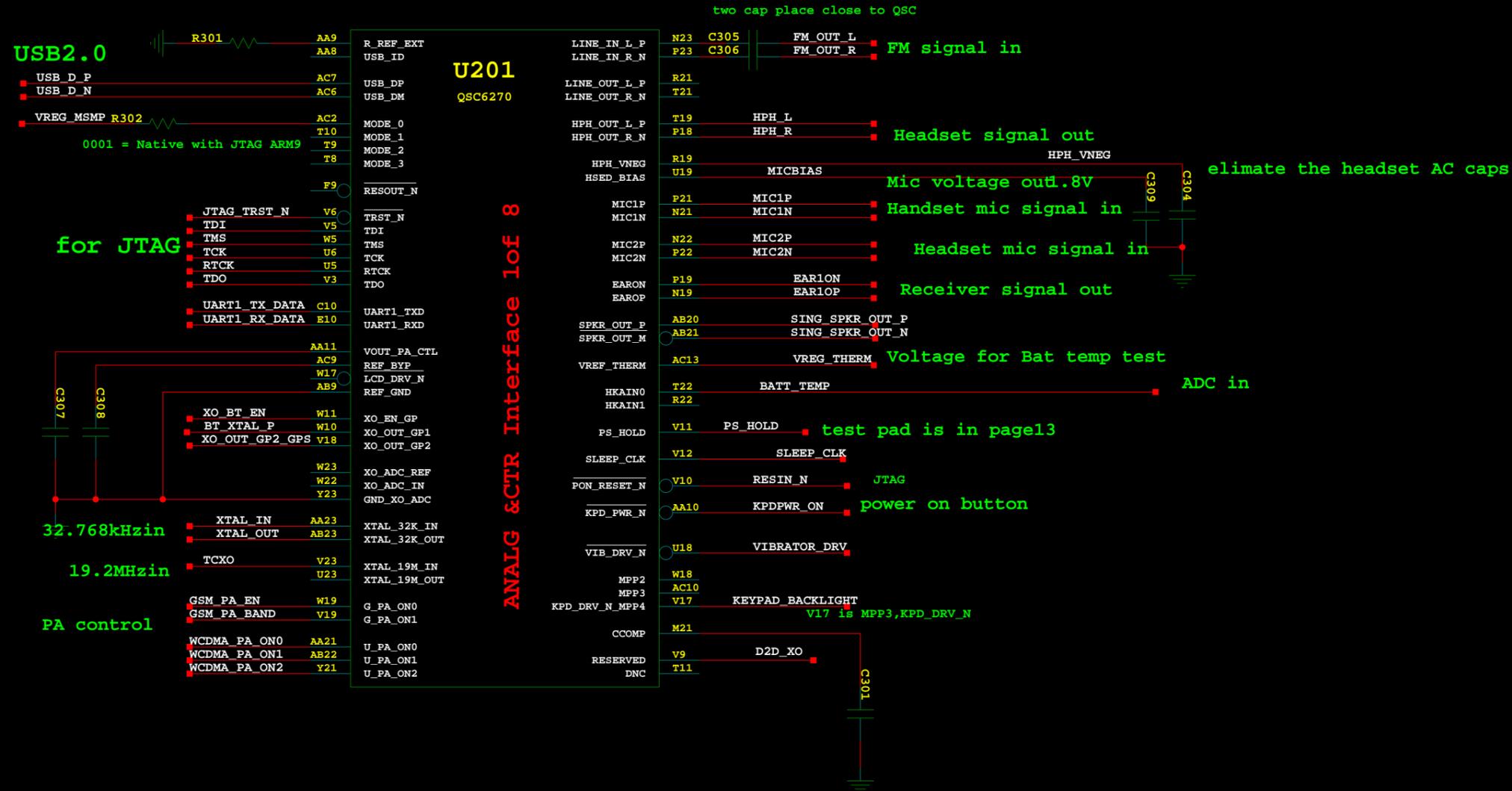
RF SCHEMETIC



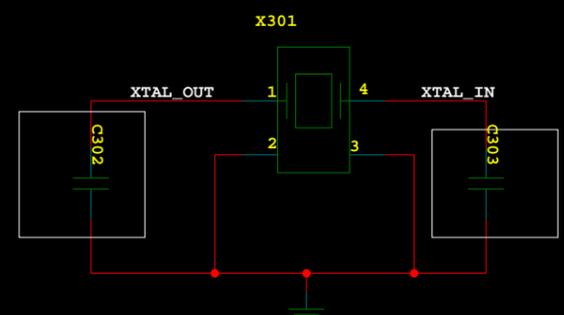
The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558	HD2U752M		00595278	
REVIEWED	ZHAOLVXIA 62650				
		VER	PART_NUMBER	SHEET 1 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

3. QSC6270 Analog/CFG/CLOCK and RF Interface



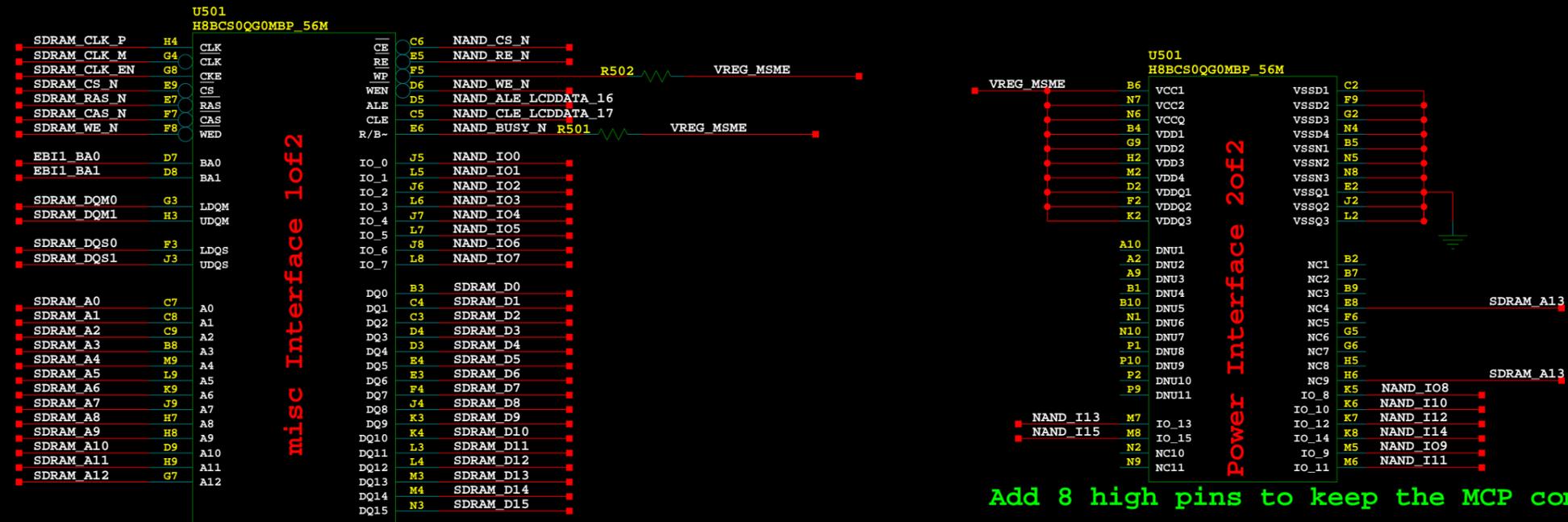
XTAL_IN/XTAL_OUT Route together!!



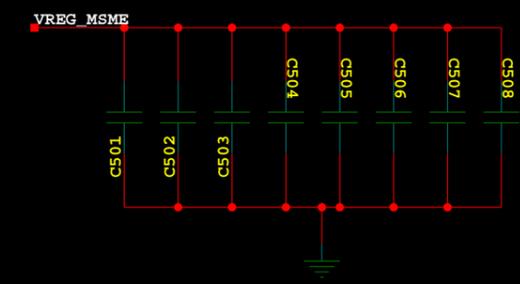
The type and specification of the components refer to the BOM

DESIGNED	SHIYUKUN 00111558	HD2U752M	NA	06-23-2010
REVIEWED	ZHAOLVXIA 62650		ECA NO	DATE
		VER	PART_NUMBER	SHEET 3 OF 30
		03020WRD		HUAWEI TECH CO.,LTD.

5. MEMORY



Caps for memory

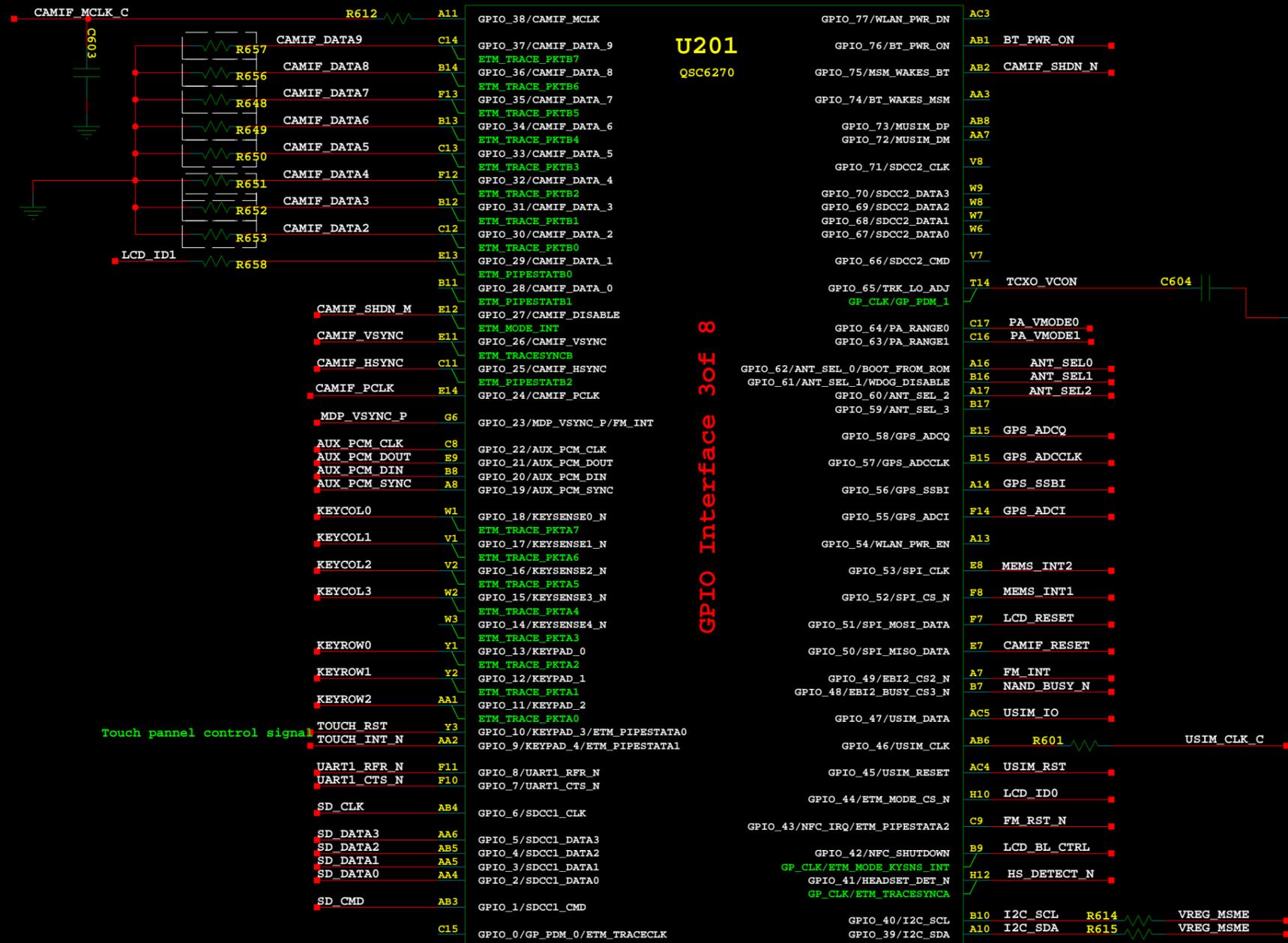


The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558				
		HD2U752M			00595278
REVIEWED	ZHAOLVXIA 62650				
		VER	PART_NUMBER	SHEET	5 OF 30
			03020WRD		HUAWEI TECH CO.,LTD.

6. QSC6270 GPIOs

See more informations in sheet 15



I2C Upload resistor has changed to 1.5K, same to V83

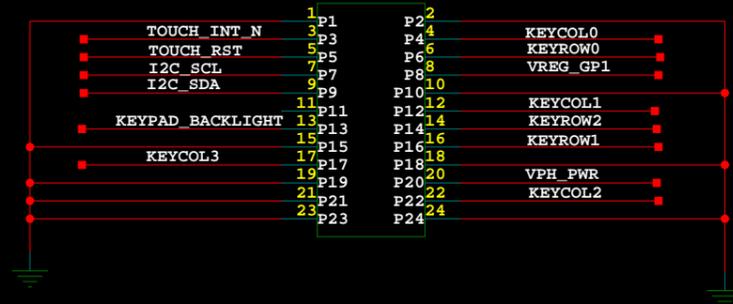
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				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558			00595278	
REVIEWED	ZHAOLVXIA 62650			00595278	
		VER	PART_NUMBER	SHEET 6 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

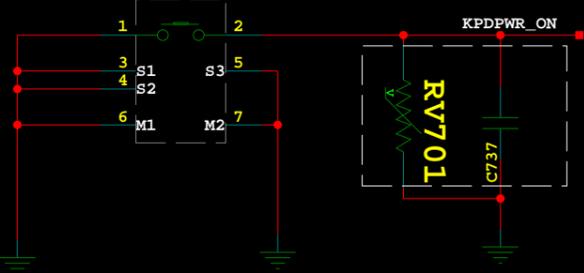
7. Keypad Connector

KEYPAD 24pin connector

J701

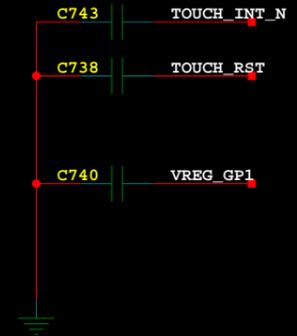
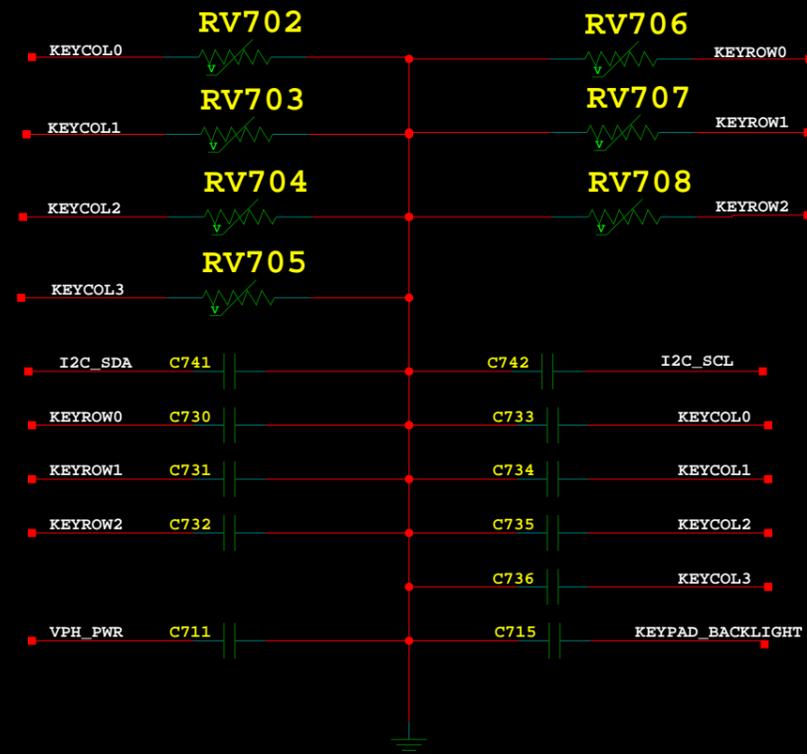


S706



PowerON and Touchscreen Hold key

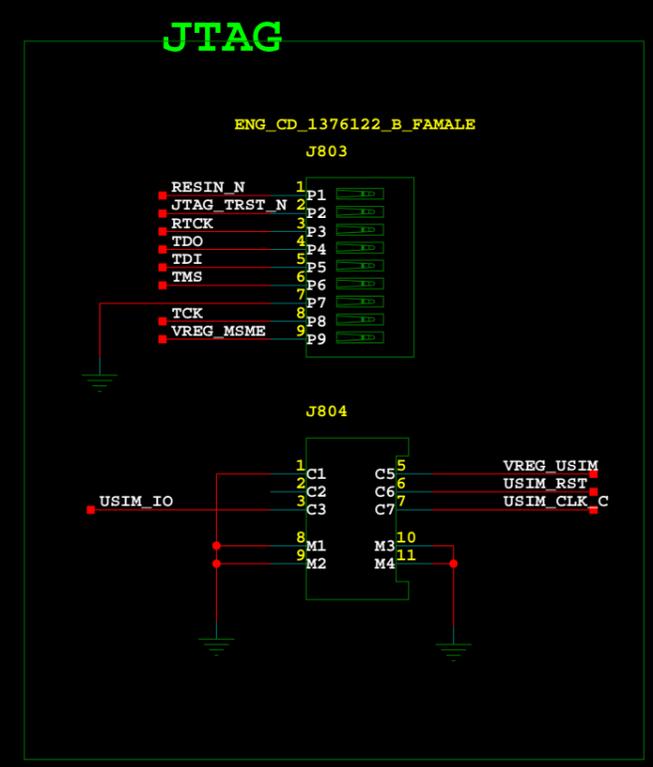
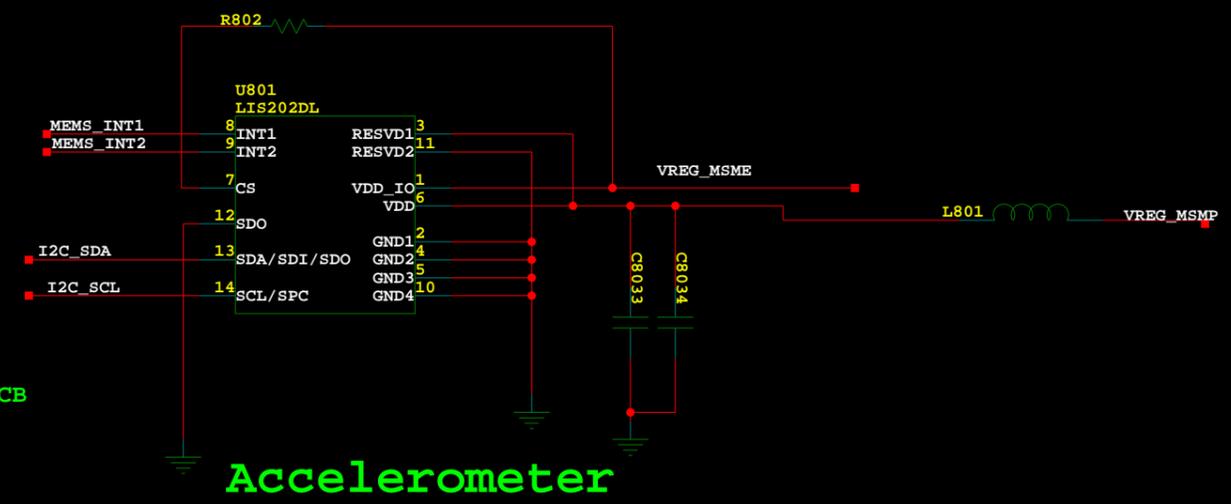
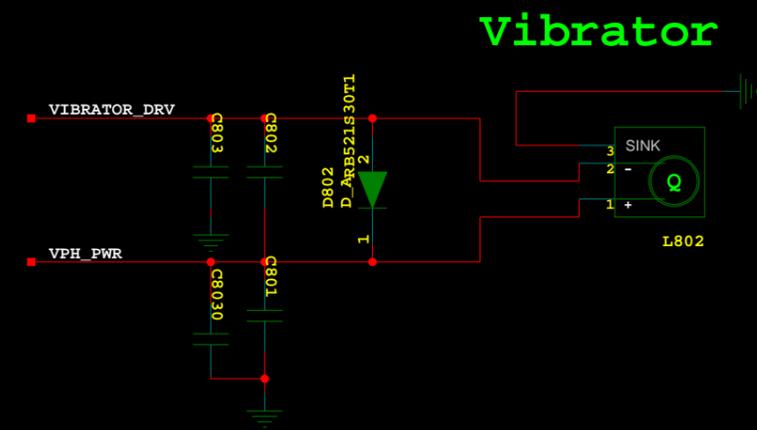
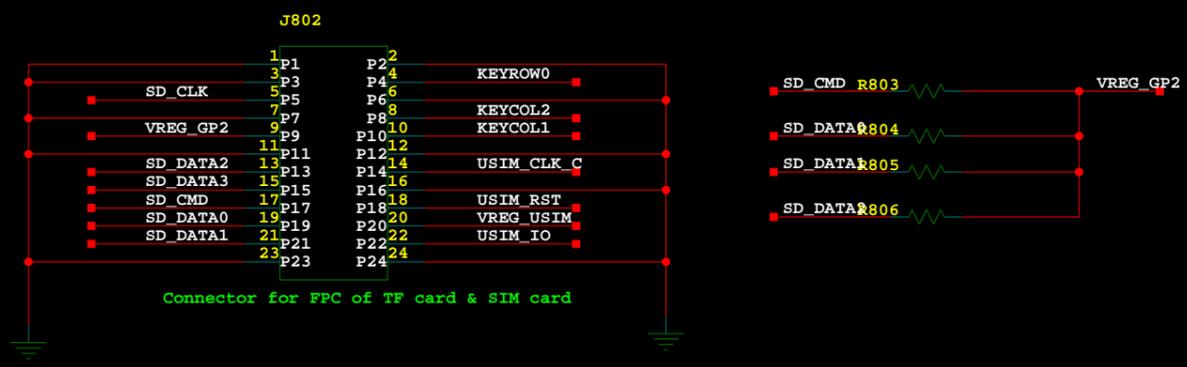
RV702--RV708 should be near to keypad connector



The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558	HD2U752M		00595278	
REVIEWED	ZHAOLVXIA 62650	VER	PART_NUMBER	SHEET 7 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

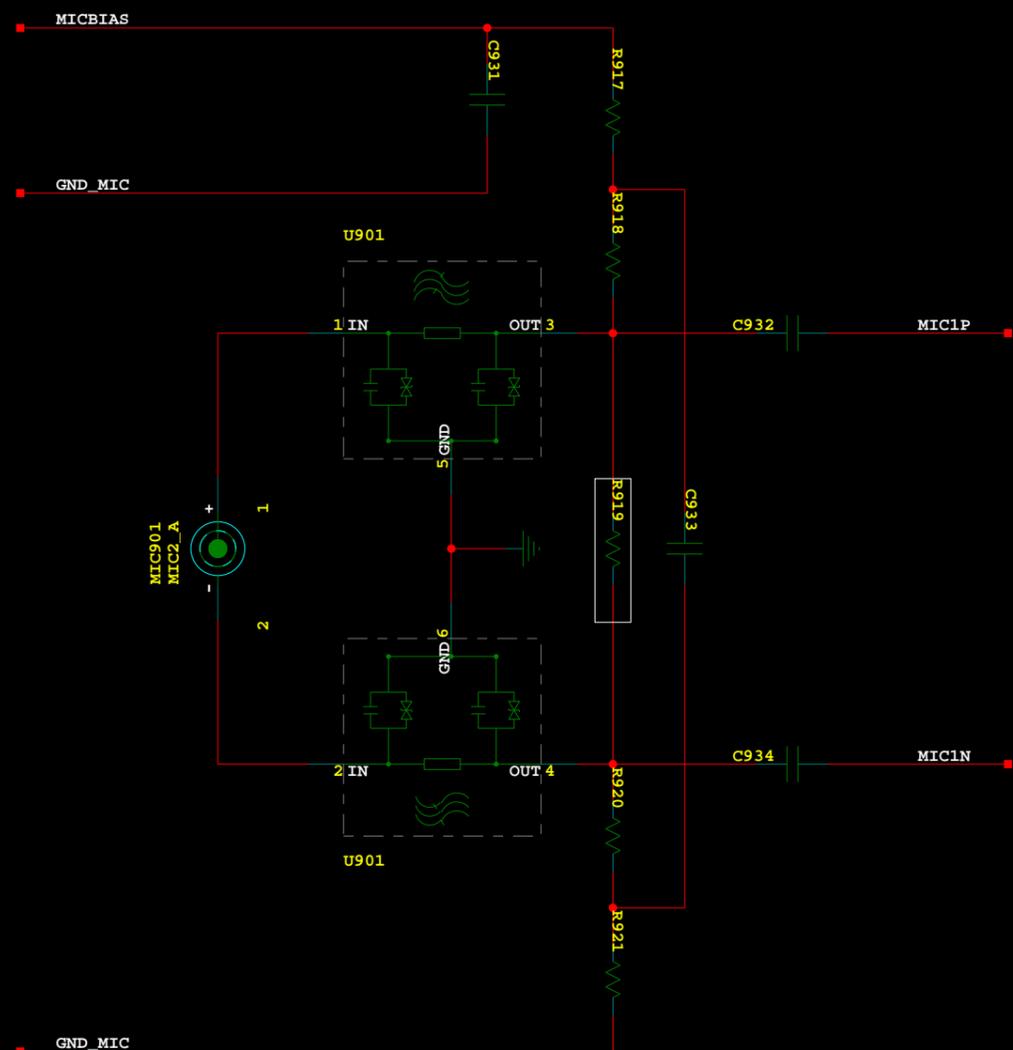
8.Middle PCB/Vabrator/JTAG/Accelerometer



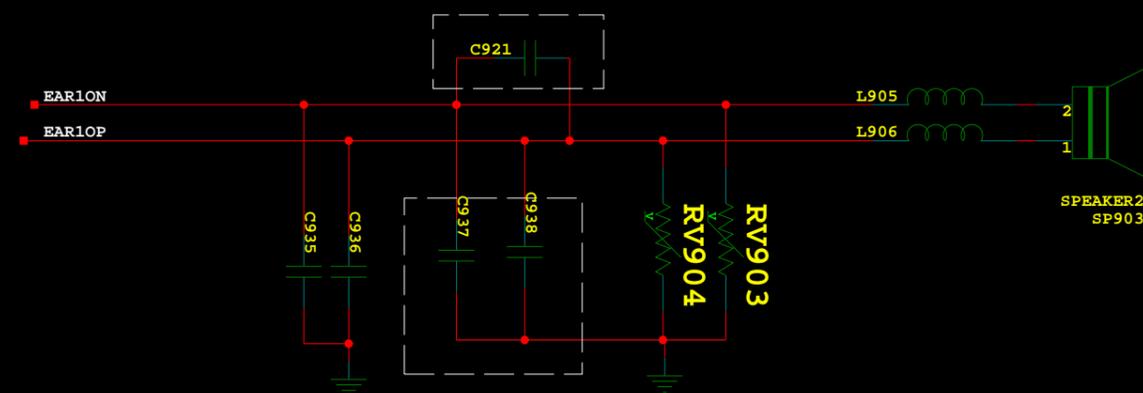
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REVIEWED	ZHAOLVXIA 62650		ECA NO	DATE
		VER	PART_NUMBER	SHEET 8 OF 30
		03020WRD		HUAWEI TECH CO.,LTD.

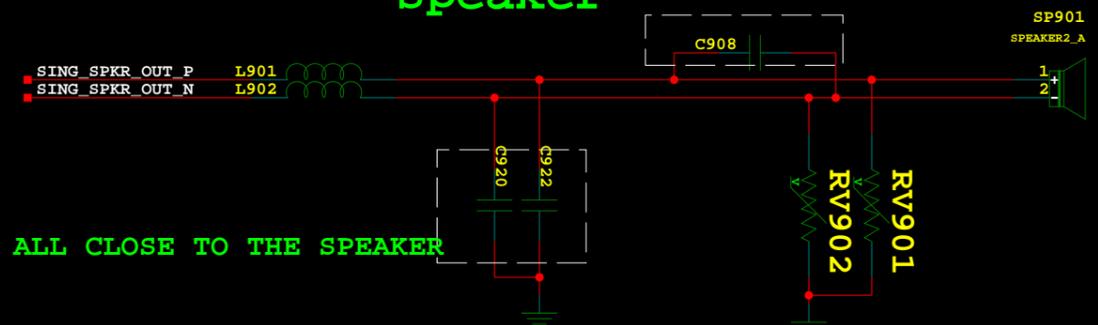
9. Audio Part Include MIC/Speaker/Receiver



Receiver



Speaker



try to use this mic's code to reduce the price

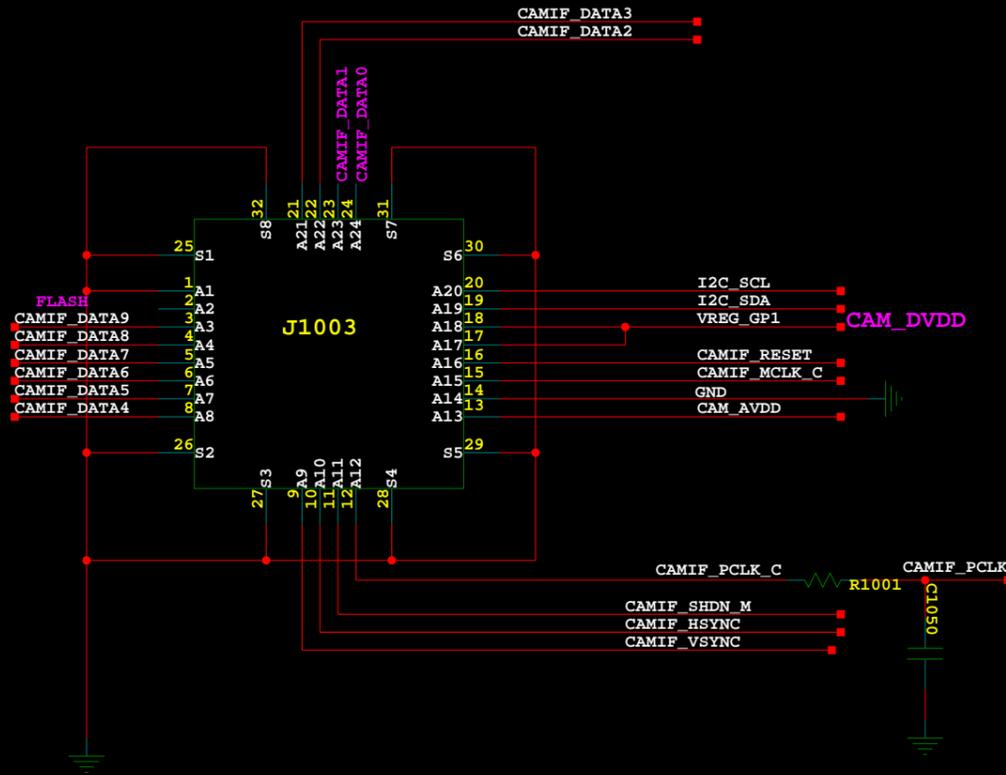
the circuit here do not change

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558				
REVIEWED	ZHAOLVXIA 62650				
		HD2U752M			00595278
		VER	PART_NUMBER	SHEET	9 OF 30
			03020WRD		HUAWEI TECH CO.,LTD.

10.Camera

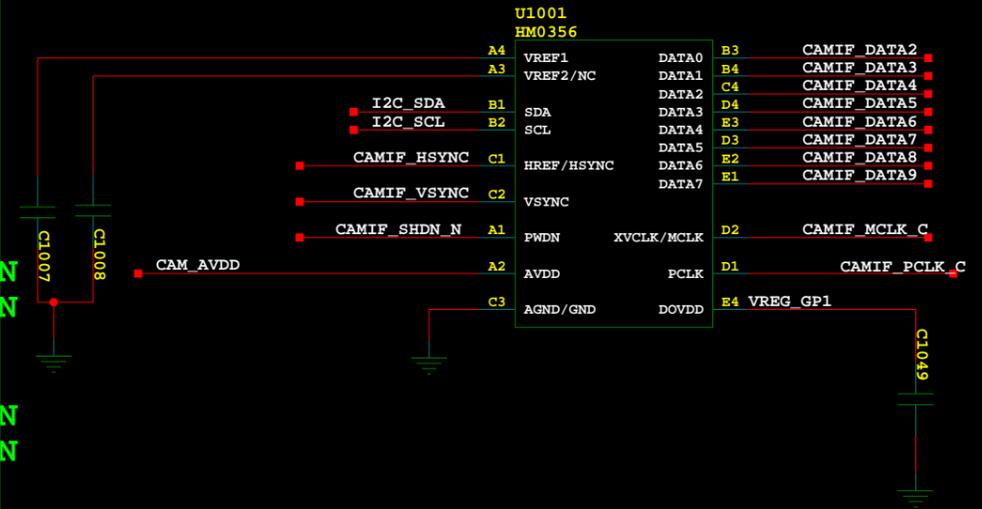
MAIN CAMERA MT9D113 V3



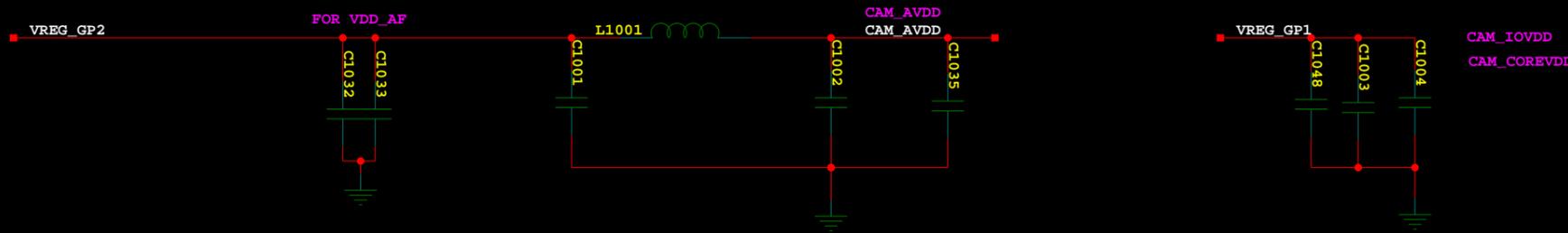
2Mcamera

PIN	NAME	IO
1	DGND	COMMON
2	FLASH	OUT
3	D9	OUT
4	D8	OUT
5	D7	OUT
6	D6	OUT
7	D5	OUT
8	D4	OUT
9	VSYNC	OUT
10	HSYNC	OUT
11	SHUTDOWN_N	IN
12	PCLK	OUT
13	AVDD	COMMON
14	AGND	COMMON
15	MCLK	IN
16	RESET	IN
17	IOVDD	COMMON
18	DVDD	COMMON
19	I2CSDA	BI
20	I2CSCL	IN
21	D3	OUT
22	D2	OUT
23	D1	OUT
24	D0	OUT

SLAVE CAMERA OV7690



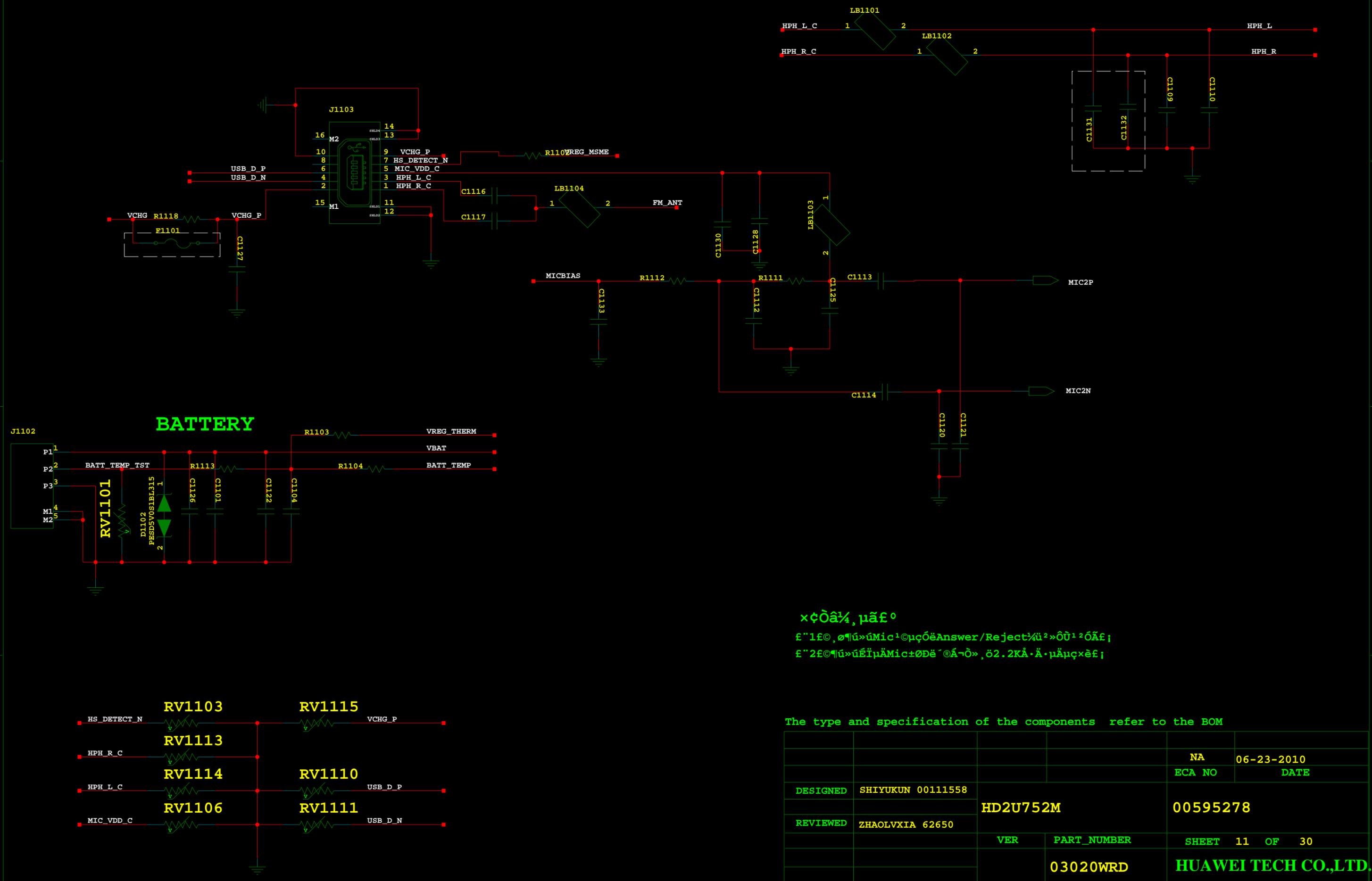
POWER CLOSE TO MAIN CAMERA



The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558			00595278	
REVIEWED	ZHAOLVXIA 62650			00595278	
		VER	PART_NUMBER	SHEET 10 OF 30	
			03020WRD	HUAWAI TECH CO.,LTD.	

11. 10PIN Mini I/O: Charging, USB and headphone port.

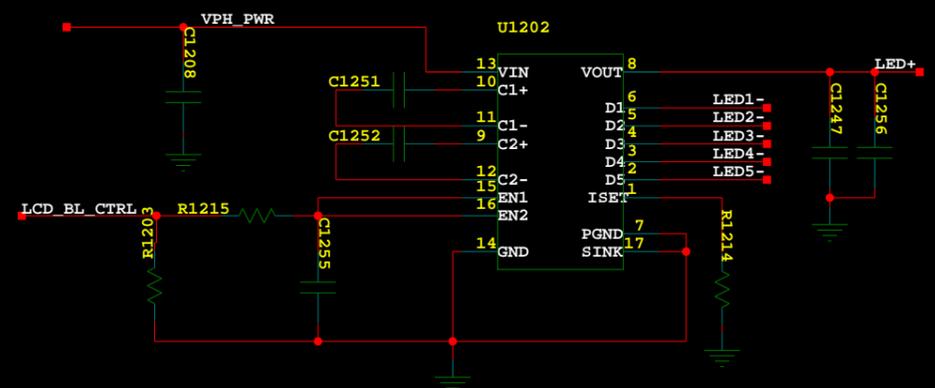
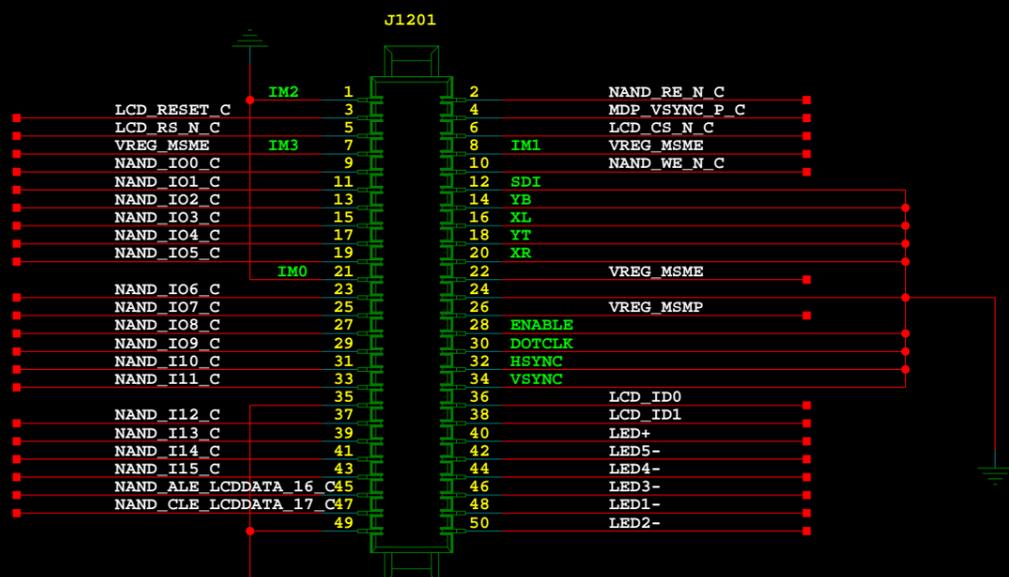


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 £"2f©¶ú»úÉÏµÄMic±ØÐë´©Ã¬ð» , ö2.2KÅ·Ä·µÄµç×èf;

The type and specification of the components refer to the BOM

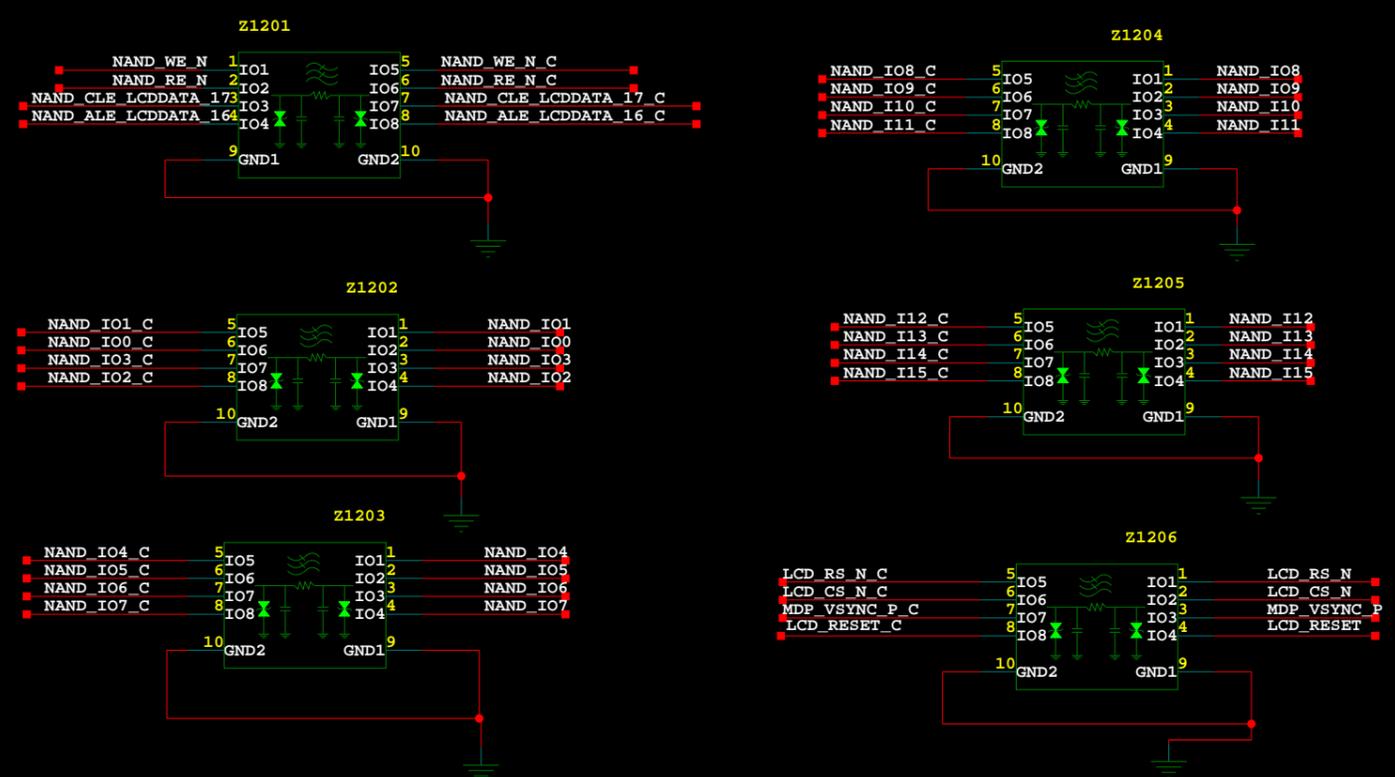
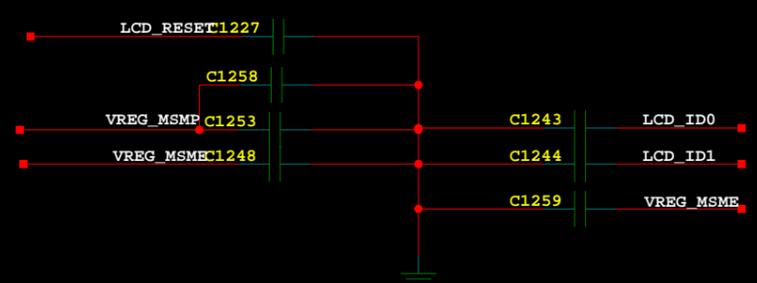
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REVIEWED	ZHAOLVXIA 62650		ECA NO	DATE
		VER	PART_NUMBER	SHEET 11 OF 30
			03020WRD	HUAWEI TECH CO.,LTD.

12. 50PIN on Main Board



LCM backlight driver

Add caps for EMI protection

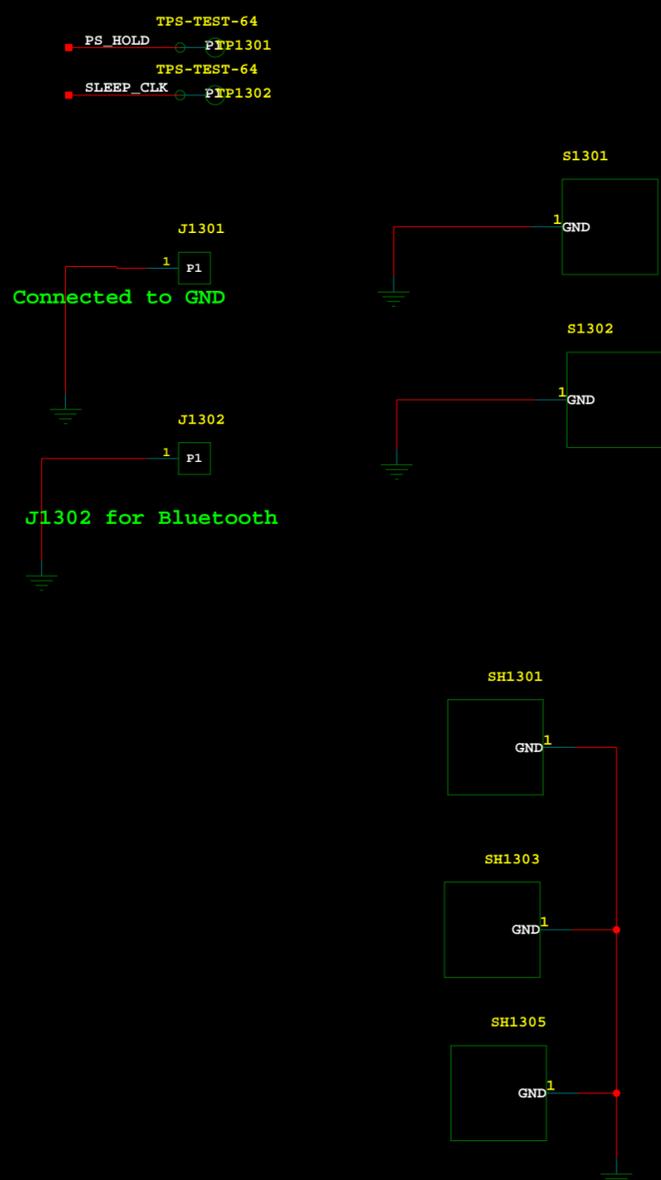


The type and specification of the components refer to the BOM

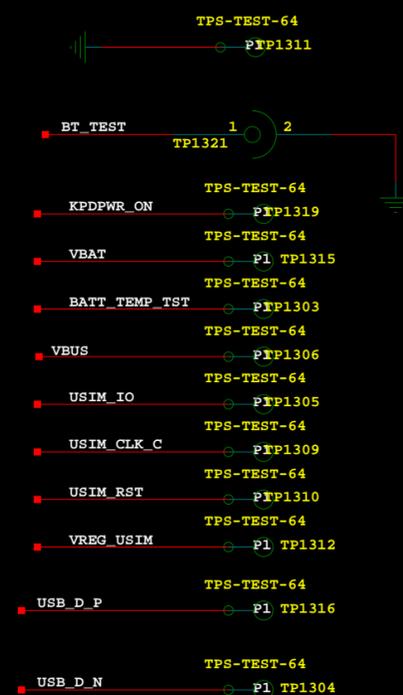
DESIGNED	SHIYUKUN 00111558	HD2U752M	NA	06-23-2010
REVIEWED	ZHAOLVXIA 62650		ECA NO	DATE
		VER	PART_NUMBER	SHEET 12 OF 30
			03020WRD	HUAWEI TECH CO.,LTD.

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	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558	HD2U752M		00595278	
REVIEWED	ZHAOLVXIA 62650	VER	PART_NUMBER	SHEET 13 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

14.Keypad introduction

	COL0	COL1	COL2	COL3
ROW0	REJECT	VOLUME+	VOLUME-	
ROW1	OK	SKYPE	UP	LEFT
ROW2	ANSWER	CAMERA	DOWN	RIGHT

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558			00595278	
REVIEWED	ZHAOLVXIA 62650			00595278	
		VER	PART_NUMBER	SHEET 14 OF 30	
			03020WRD	HUAWAI TECH CO.,LTD.	

15. GPIO Mapping

NO WLAN--no (LDO1.8/3.3/1.2 & 9574)

GPIO0-2.6V	
GPIO1-2.6V-DF-BI	SD_CMD
GPIO2-2.6V-DF-BI	SD_DATA0
GPIO3-2.6V-DF-BI	SD_DATA1
GPIO4-2.6V-DF-BI	SD_DATA2
GPIO5-2.6V-DF-BI	SD_DATA3
GPIO6-2.6V-DF-DO	SD_CLK
GPIO7-1.8V-NP-DI	UART1_CTS_N
GPIO8-1.8V-DF-DO	UART1_RFR_N
GPIO9-1.8V-DF-DO	TOUCH_RST
GPIO10-1.8V-DF-DO	TOUCH_INT_N
GPIO11-1.8V-DF-DO	KEYROW2
GPIO12-1.8V-DF-DO	KEYROW1
GPIO13-1.8V-DF-DO	KEYROW0
GPIO14-1.8V-DF-DI	MEMS_INT1
GPIO15-1.8V-DF-DI	CAM_ID
GPIO16-1.8V-DF-DI	KEYCOL2
GPIO17-1.8V-DF-DI	KEYCOL1
GPIO18-1.8V-DF-DI	KEYCOL0
GPIO19-1.8V-DF-BI	AUX_PCM_SYNC
GPIO20-1.8V-DF-BI	AUX_PCM_DIN
GPIO21-1.8V-DF-BI	AUX_PCM_DOUT
GPIO22-1.8V-DF-BI	AUX_PCM_CLK
GPIO23-1.8V-DF-DI	MDP_VSYNG_P
GPIO24-1.8V-DF-DI	CAMIF_PCLK
GPIO25-1.8V-DF-DI	CAMIF_HSYNC
GPIO26-1.8V-DF-DI	CAMIF_VSYNC
GPIO27-1.8V-DF-DO	LCD_RESET
GPIO28	CAMIF_DATA0
GPIO29	CAMIF_DATA1
GPIO30-1.8V-DF-DI	CAMIF_DATA2
GPIO31-1.8V-DF-DI	CAMIF_DATA3
GPIO32-1.8V-DF-DI	CAMIF_DATA4
GPIO33-1.8V-DF-DI	CAMIF_DATA5

GPIO34-1.8V-DF-DI	CAMIF_DATA6
GPIO35-1.8V-DF-DI	CAMIF_DATA7
GPIO36-1.8V-DF-DI	CAMIF_DATA8
GPIO37-1.8V-DF-DI	CAMIF_DATA9
GPIO38-1.8V-DF-DO	CAMIF_MCLK
GPIO39-1.8V-DF-BI	I2C_SDA
GPIO40-1.8V-DF-DO	I2C_SCL
GPIO41-1.8V-NP-DI	CAMIF_SHDN_M
GPIO42-1.8V-DF-DO	LCD_BL_CTRL
GPIO43-1.8V-DF-DO	FM_RST_N
GPIO44-1.8V-NP-DI	LCD_RESET
GPIO45-DF-DF-DO	USIM_RST
GPIO46-DF-DF-DO	USIM_CLK_C
GPIO47-1.8V-DF-BI	USIM_IO
GPIO48-1.8V-DF-BI	NAND_BUSY_N
GPIO49-1.8V-NP-DI	FM_INT
GPIO50-1.8V-DF-DO	MEMS_INT2
GPIO51-1.8V-DF-DO	
GPIO52-1.8V-DF-BI	LCD_ID0
GPIO53-1.8V-DF-DO	LCD_ID1
GPIO54-1.8V-DF-DO	
GPIO55-1.8V-DF-DO	GPS_ADCI
GPIO56-1.8V-PD-DI	GPS_SSBI
GPIO57-1.8V-PD-DI	GPS_ADCCLK
GPIO58	GPS_ADCQ
GPIO59-2.6V-DF-DO	ANT_SEL3
GPIO60-2.6V-DF-DO	ANT_SEL2
GPIO61-2.6V-DF-DO	ANT_SEL1
GPIO62-2.6V-DF-DO	ANT_SEL0
GPIO63-2.6V-DF-DO	PA_VMODE1
GPIO64-2.6V-DF-DO	PA_VMODE0
GPIO65-2.6V-DF-DO	TCXO_VCON
GPIO66-2.6V-PD-DI	CAMIF_SHDN_M
GPIO67-2.6V-PD-DI	CAMIF_SHDN_N

GPIO68-2.6V-PD-DI	NC
GPIO69	HEADSET_DET_N
GPIO70-2.6V-NP-DI	
GPIO71	NC
GPIO72	NC
GPIO73	NC
GPIO74-1.8V-DF-DI	CAMIF_SHDN_AF
GPIO75-1.8V-DF-DO	CAMIF_SHDN_N
GPIO76-1.8V-DF-DO	BT_PWR_ON
GPIO77-2.6V-NP-DI	

HAS WLAN--some GPIOs have to make change

GPIO27-1.8V-DF-DO	GPIO_RESET
GPIO54-1.8V-DF-DO	WLAN_PWR_EN
GPIO66-2.6V-PD-DI	SDCC2_CMD
GPIO67-2.6V-PD-DI	SDCC2_DATA0
GPIO68-2.6V-PD-DI	SDCC2_DATA1
GPIO69	SDCC2_DATA2
GPIO70-2.6V-NP-DI	SDCC2_DATA3
GPIO71	SDCC2_CLK

GPIO extent--9574

P0	CAMIF_SHDN_M
P1	CAMIF_SHDN_N
P2	CAMIF_RESET
P3	LCD_RESET
P4	/
P5	/
P6	/
P7	/

the GPIOs in this page should be adjusted to that in the excel

NOTE: the "DF" means set GPIO as the chip default
the "NP" means set GPIO as NO PULL

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558				
				HD2U752M	00595278
REVIEWED	ZHAOLVXIA 62650				
		VER	PART_NUMBER	SHEET	15 OF 30
			03020WRD		HUAWEI TECH CO.,LTD.

16.BLOCK DIAGRAM--POWER TREE AND RESET TREE

A

A

B

B

C

C

D

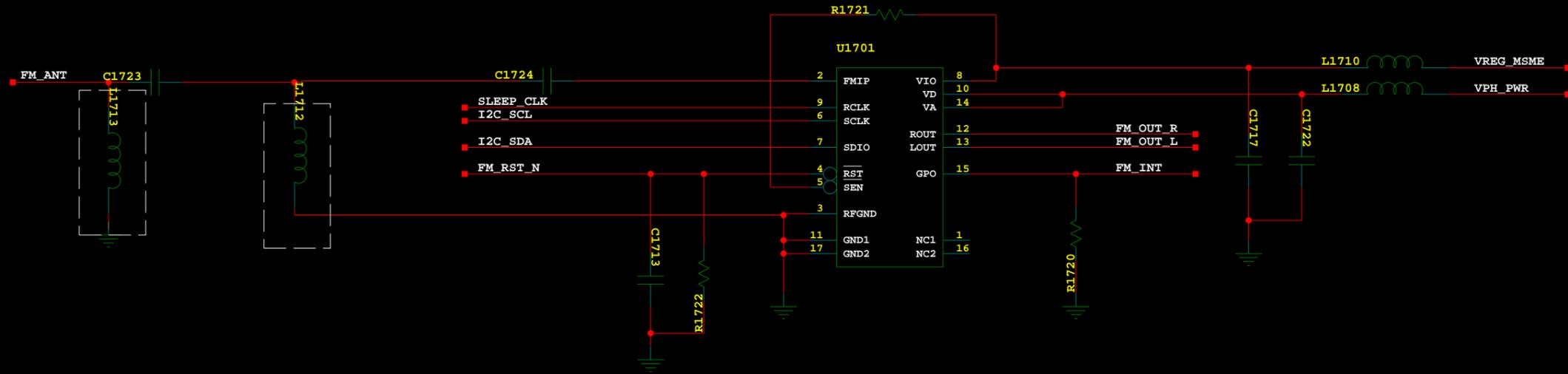
D

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558			00595278	
REVIEWED	ZHAOLVXIA 62650		HD2U752M		
		VER	PART_NUMBER	SHEET 16 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

17.FM

FM



The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558	HD2U752M		00595278	
REVIEWED	ZHAOLVXIA 62650				
		VER	PART_NUMBER	SHEET 17 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

30. RF TO BASEBAND I/O PORTS

31. 19.2MHz VCTCXO

32. Antenna Switchplexer

33. WCDMA IMT/PCS Power Amplifier

34. WCDMA CELL Power Amplifier

35. GSM Quad_band_PA

36. MATCHING CIRCUIT

37. QSC6270 RF POWER

38. QSC6270 RX/TX Circuit

39. NULL

40. GPS

41. NULL

42. BT

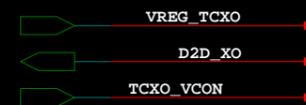
POWER SUPPLY FOR QSC6270 RF



FOR ANTENNA SWITCH CONTROL



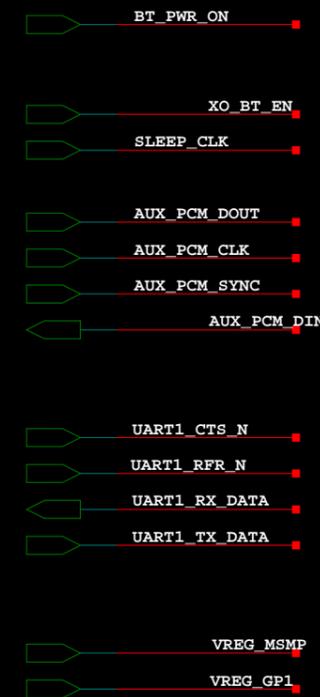
FOR TCXO



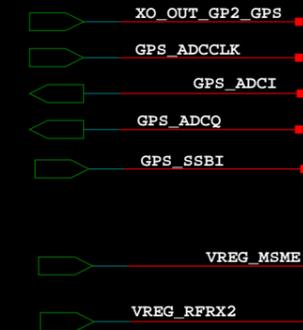
FOR PA CONTROL



FOR BT CONTROL



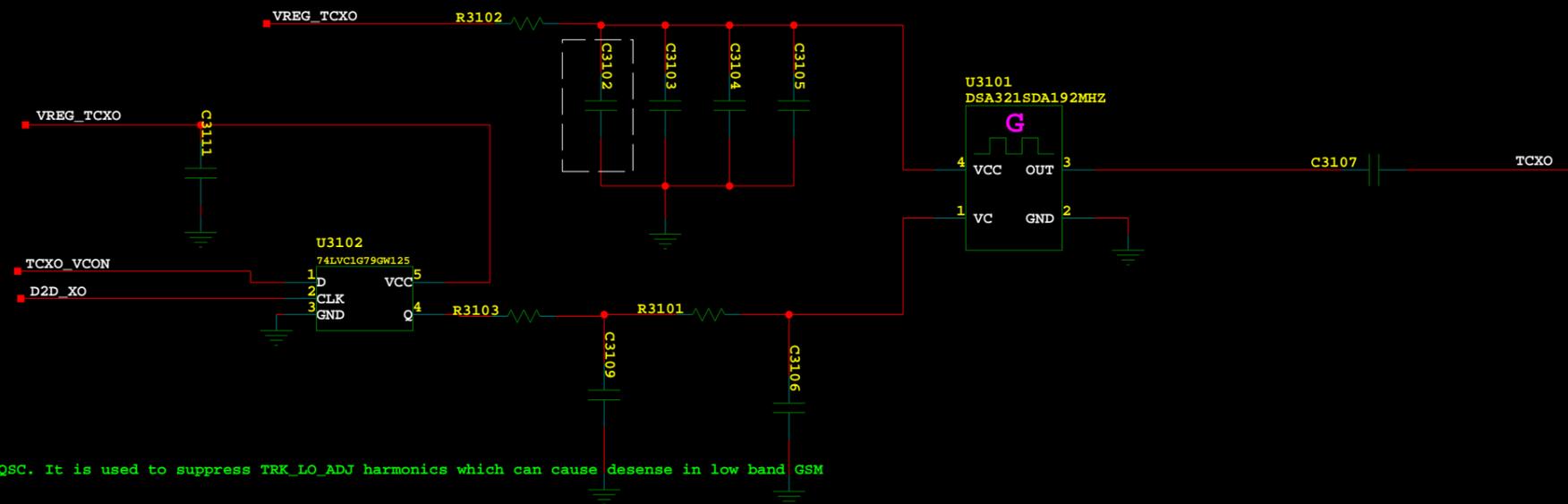
FOR GPS CONTROL



The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558			00595278	
REVIEWED	ZHAOLVXIA 62650			00595278	
		VER	PART_NUMBER	SHEET 18 OF 30	
			03020WRD	HUAWAI TECH CO.,LTD.	

31. 19.2MHz VCTCXO



Note: Place R3104 and C3110 close to QSC. It is used to suppress TRK_LO_ADJ harmonics which can cause desense in low band GSM

CODE	Load
12070006	10k//10pF
00442814	10k//10pF(for GPS)
	Load
12070006	10k//10pF
12070011	5k//15pF
12070013	5k//40pF

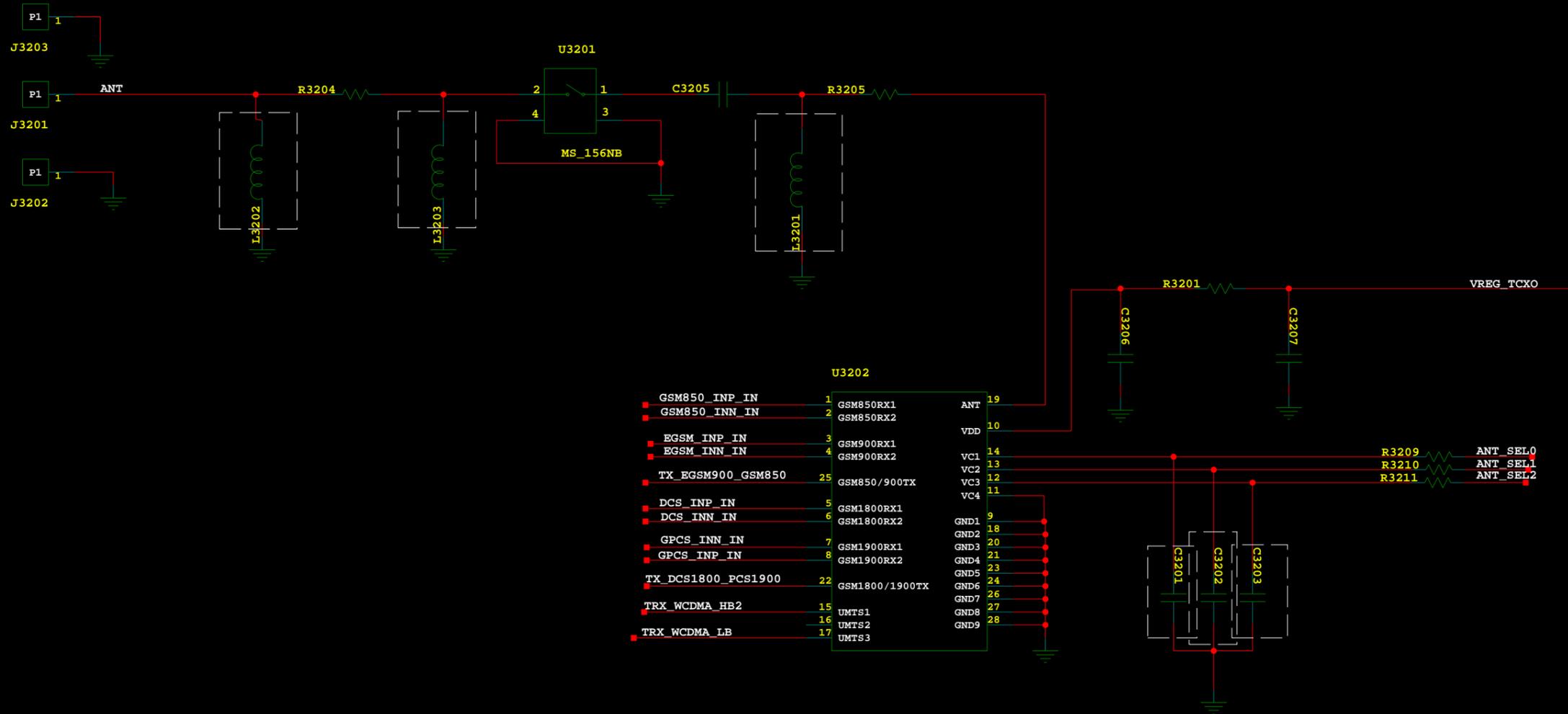
The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
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REVIEWED	ZHAOLVXIA 62650			00595278	
		VER	PART_NUMBER	SHEET 19 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

32. Antenna Switchplexer

MODE	TX FREQ	RX FREQ	PWR CLASS	PWR
GSM850	824-849	869-894	4	33
GSM900	880-915	925-960	4	33
GSM1800	1710-1785	1805-1880	1	30
GSM1900	1850-1910	1930-1990	1	30
WCDMA IMT	1920-1980	2110-2170	3	24
WCDMA PCS	1850-1910	1930-1990		24
WCDMA CELL	824-849	869-894		24

		ANT_SEL0	ANT_SEL1	ANT_SEL2	ANT_SEL3
GCELL/EGSM_TX	GSM850/900 TX	1	1	0	0
DCS/PCS_TX	GSM1800/1900 TX	1	0	0	0
DCS_RX	GSM1800 RX	0	1	1	0
PCS_RX	GSM1900 RX	0	1	0	0
EGSM_RX	GSM900 RX	0	0	1	0
GCELL_RX/CUT	GSM850 RX	0	0	0	0
BAND VIII_TX/RX		1	0	1	1
IMT_TX/RX	W900_TX/RX	1	1	1	0
PCS_TX/RX	W2100/TX/RX W1900/TX/RX/PCS1900 RX	1	0	1	0



The type and specification of the components refer to the BOM

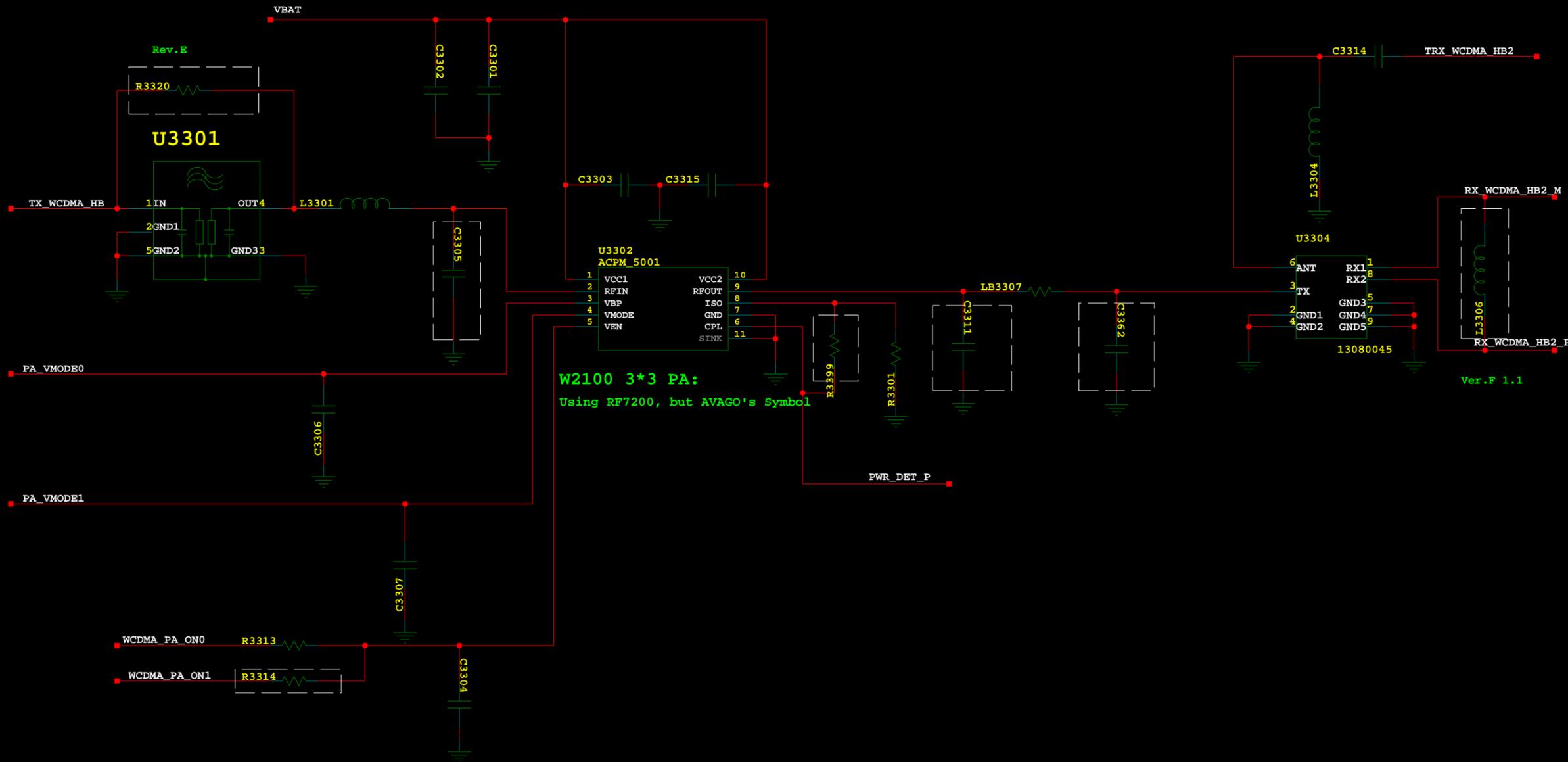
DESIGNED	SHIYUKUN 00111558	HD2U752M	00595278
REVIEWED	ZHAOLVXIA 62650	VER	PART_NUMBER
		03020WRD	SHEET 20 OF 30
			HUAWEI TECH CO.,LTD.

NA 06-23-2010
ECA NO DATE

SHEET 20 OF 30

HUAWEI TECH CO.,LTD.

33. WCDMA IMT/PCS Power Amplifier



U3301 need to be moved meet ACLR performance,for Band I ,But Band II Investing. Rev .G

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

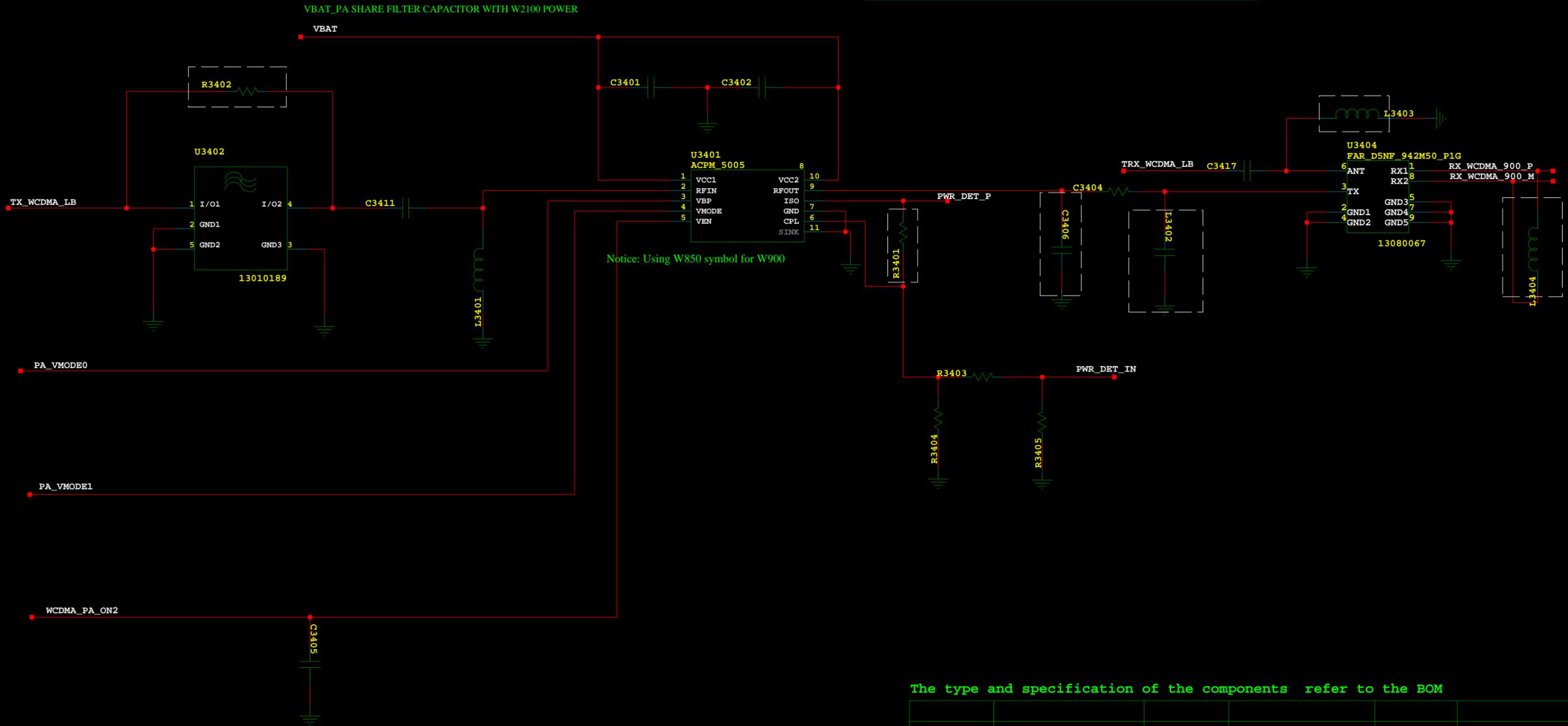
The type and specification of the components refer to the BOM

DESIGNED	SHIYUKUN 00111558	HD2U752M	00595278
REVIEWED	ZHAOLVXIA 62650	VER	PART_NUMBER
			SHEET 21 OF 30
		03020WRD	HUAWEI TECH CO.,LTD.

NA 06-23-2010
ECA NO DATE

34. WCDMA CELL Power Amplifier

	W850		W900	
	Part number	CODE	Part number	CODE
U3401	ACPM_7311_TR1	47100231	ACPM_7371_TR1	47100187
U3402	B9425	13010174	SAFE897MAL0F00R14	13010154
U3404	B7640	13080035	B7681	13080029



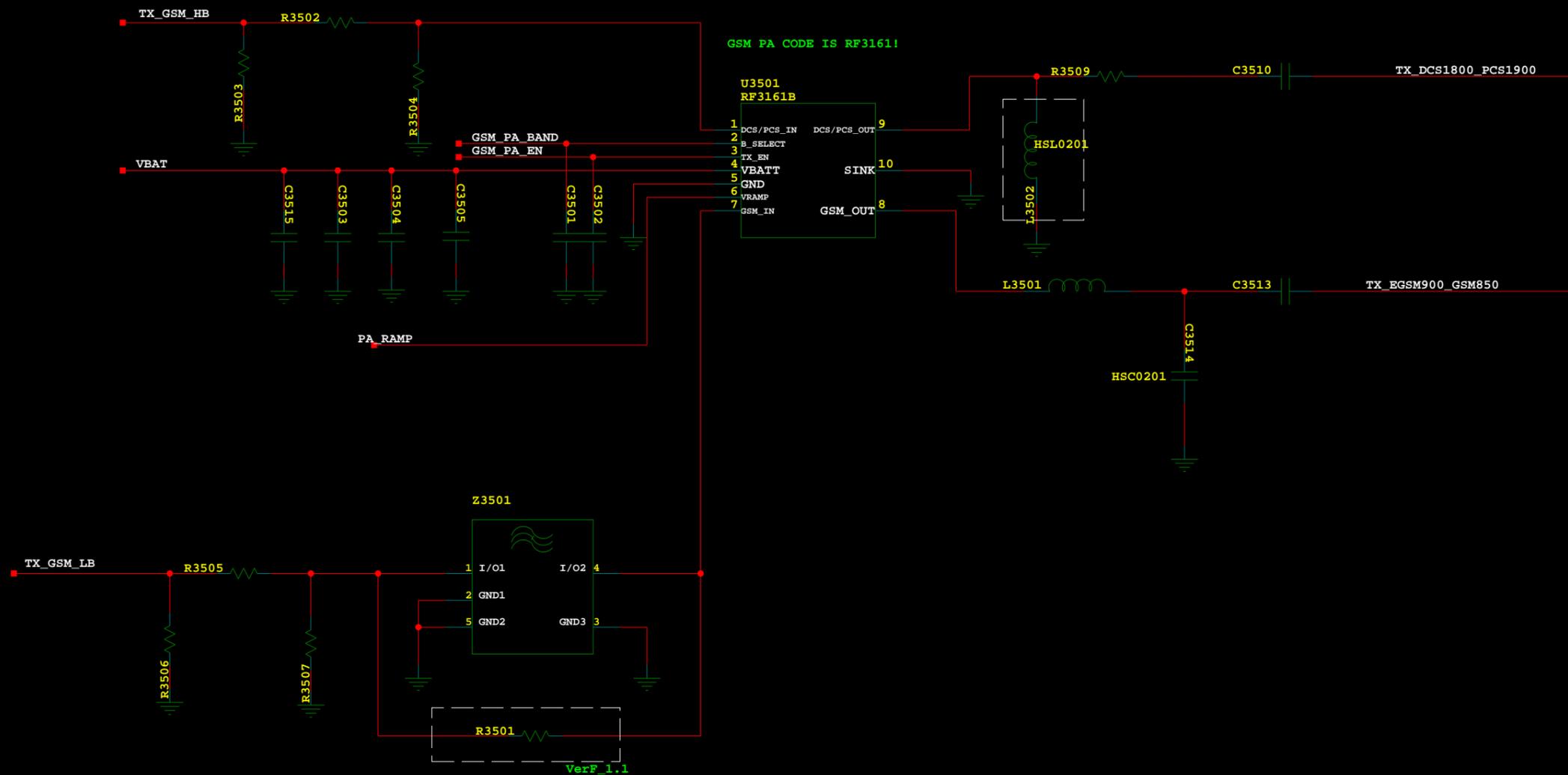
The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558	HD2U752M		00595278	
REVIEWED	ZHAOLVXIA 62650				
		VER	PART_NUMBER	SHEET 22 OF 30	
			03020WRD	HUAWAI TECH CO.,LTD.	

35. GSM Quad_band_PA

GSM_PA_EN	PA
H	ON
L	OFF

GSM_PA_BAND	MODE
L	LOW BAND
H	HIGH BAND

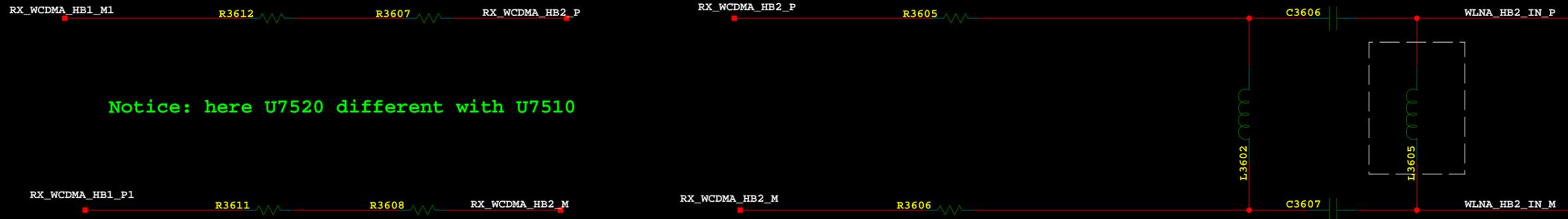


The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558			00595278	
REVIEWED	ZHAOLVXIA 62650			00595278	
		VER	PART_NUMBER	SHEET 23 OF 30	
			03020WRD	HUAWAI TECH CO.,LTD.	

36. MATCHING CIRCUIT

UMTS PRIMARY RX MATCHING

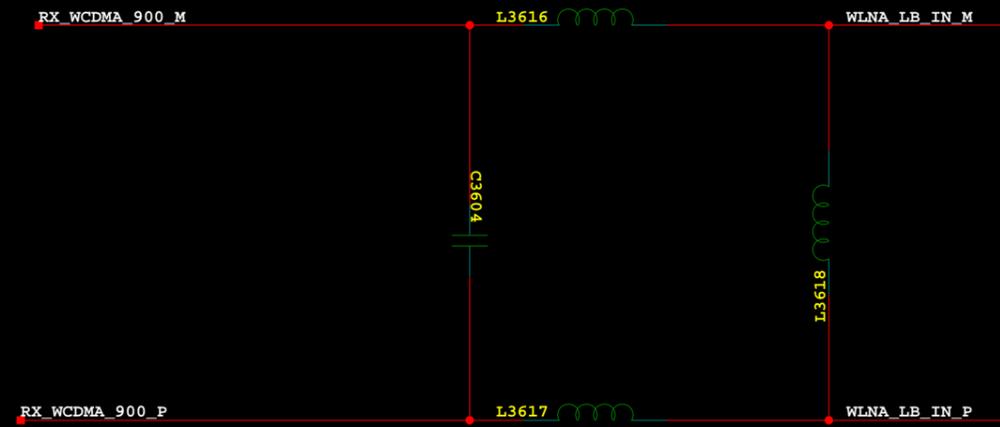


Notice: here U7520 different with U7510

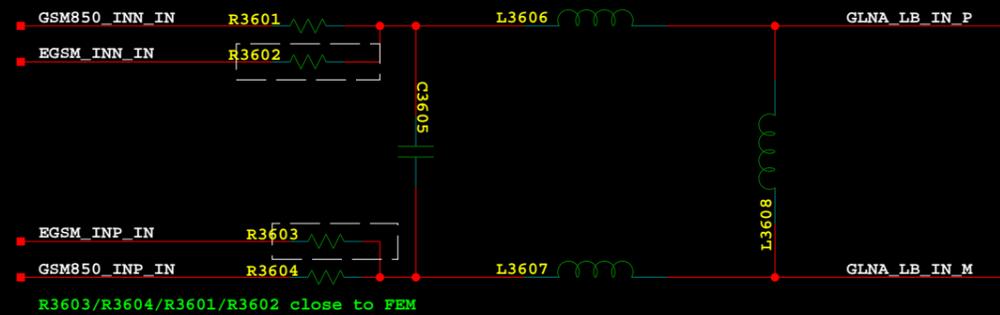
PCS PRIMARY RX MATCHING



U7520: Trap removed



GSM RX MATCHING

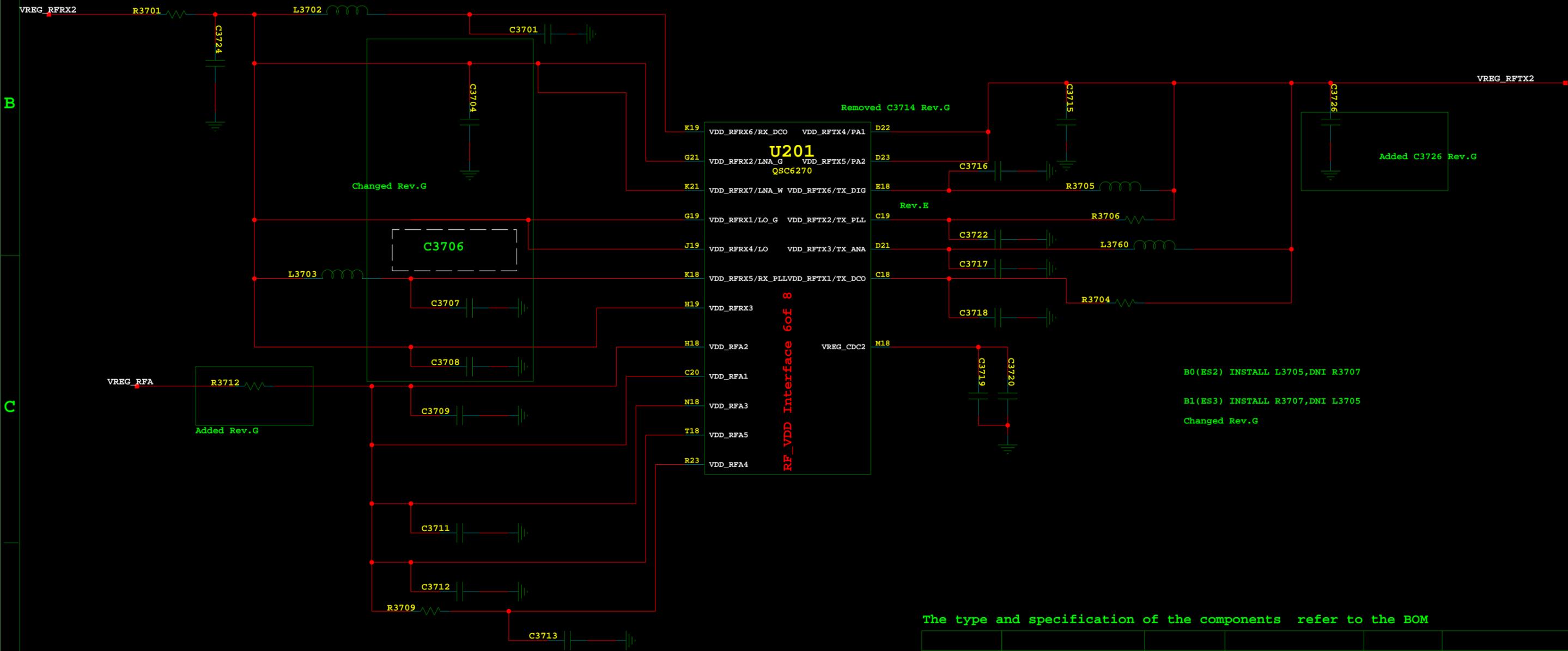


R3603/R3604/R3601/R3602 close to FEM

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558	HD2U752M		00595278	
REVIEWED	ZHAOLVXIA 62650	VER	PART_NUMBER	SHEET 24 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

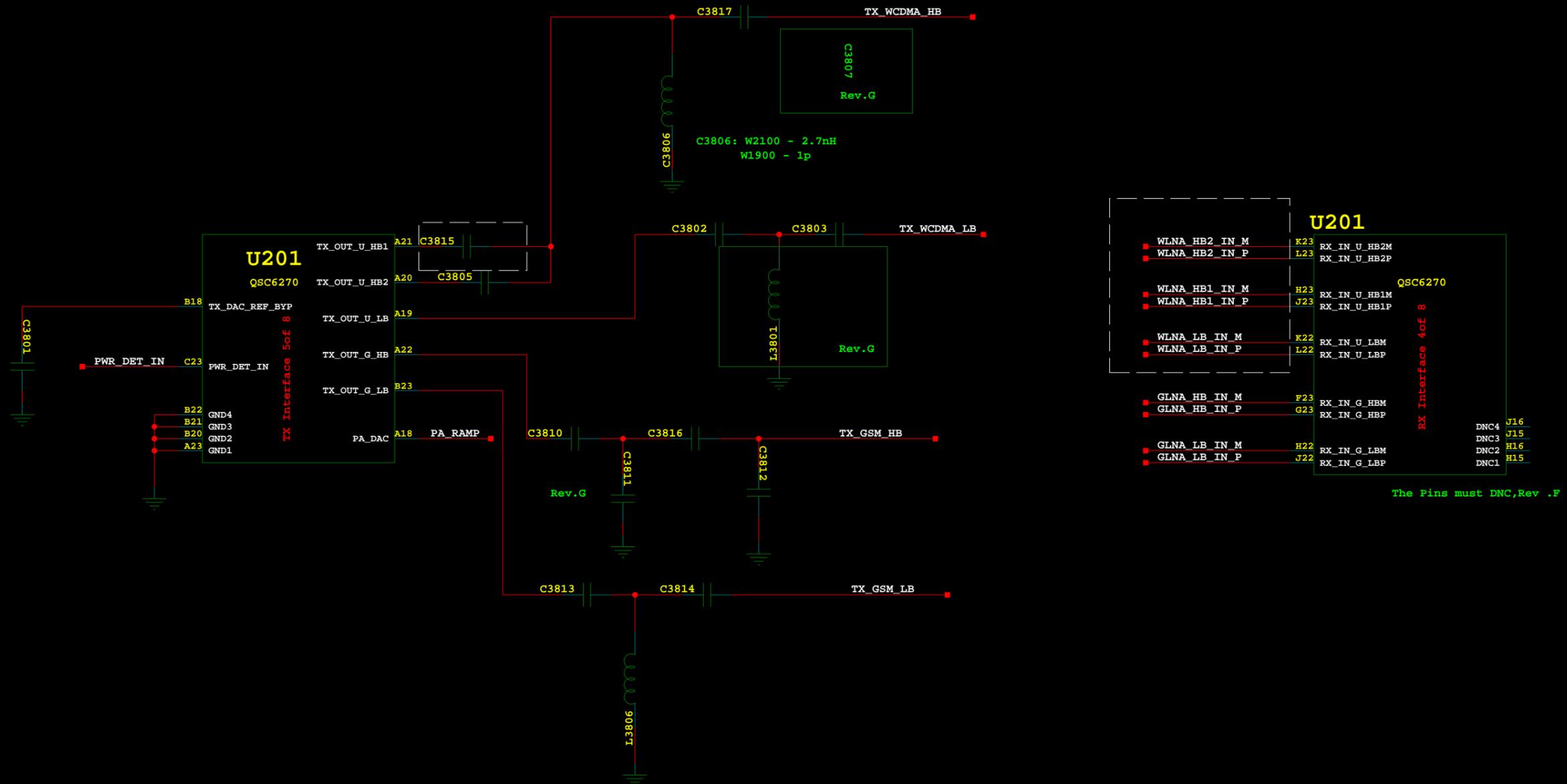
37. QSC6270 RF POWER



The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558				
REVIEWED	ZHAOLVXIA 62650				
		HD2U752M			00595278
		VER	PART_NUMBER		SHEET 25 OF 30
			03020WRD		HUAWEI TECH CO.,LTD.

38. QSC6270 RX/TX Circuit



The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558				
REVIEWED	ZHAOLVXIA 62650				
		HD2U752M			00595278
		VER	PART_NUMBER		SHEET 26 OF 30
			03020WRD		HUAWEI TECH CO.,LTD.

39. NULL

A

A

B

B

C

C

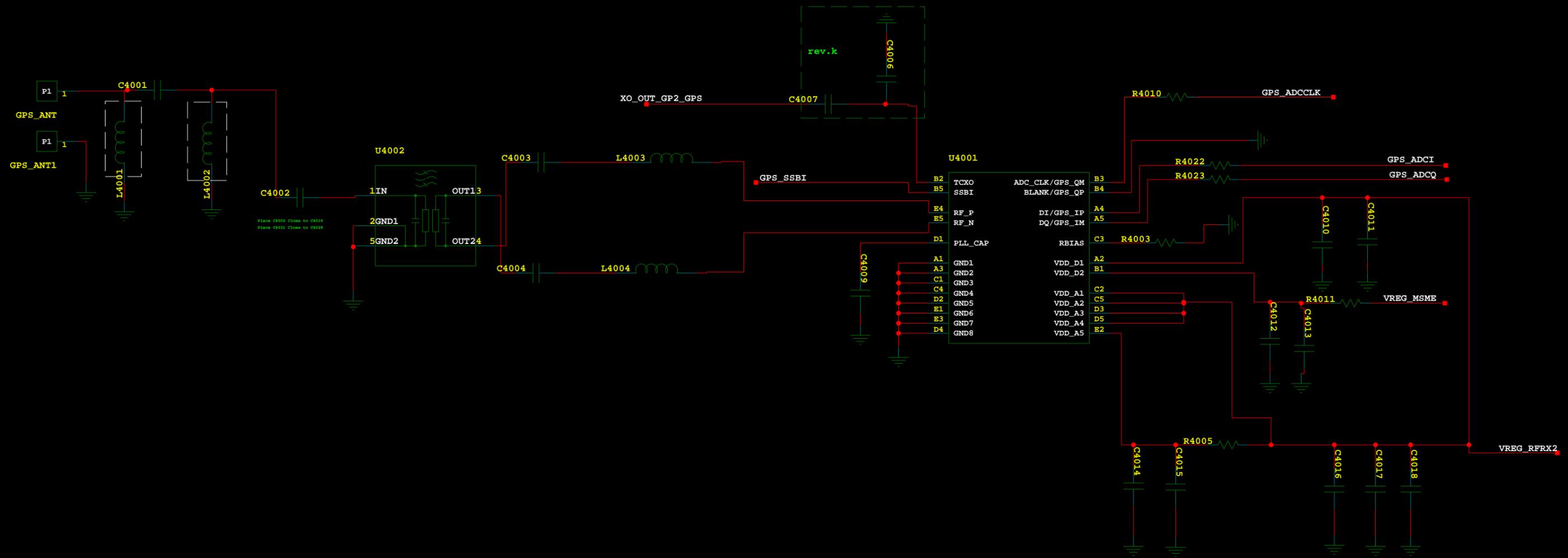
D

D

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558				
				HD2U752M	00595278
REVIEWED	ZHAOLVXIA 62650				
			VER	PART_NUMBER	SHEET 27 OF 30
				03020WRD	HUAWEI TECH CO.,LTD.

40. GPS



RF_CONFIG	LNA requirement
US1	not
US2	under investigation
EU	not
JP	under investigation

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558			00595278	
REVIEWED	ZHAOLVXIA 62650			00595278	
		VER	PART_NUMBER	SHEET 28 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	

41.Null

A

A

B

B

C

C

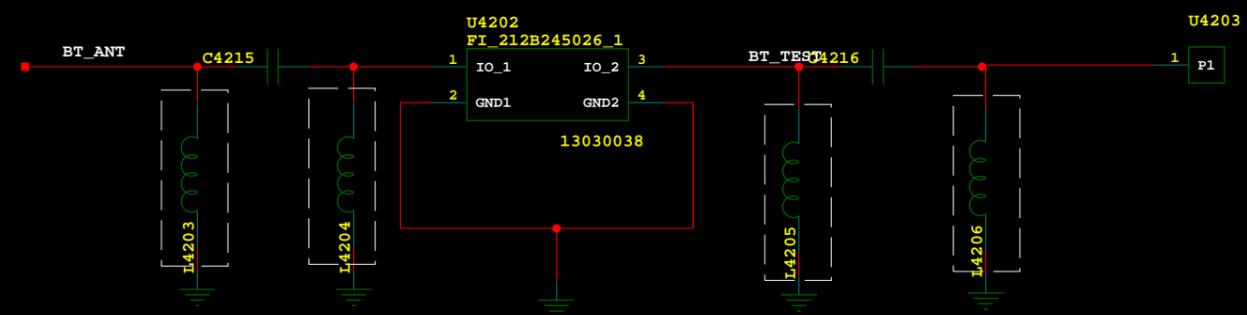
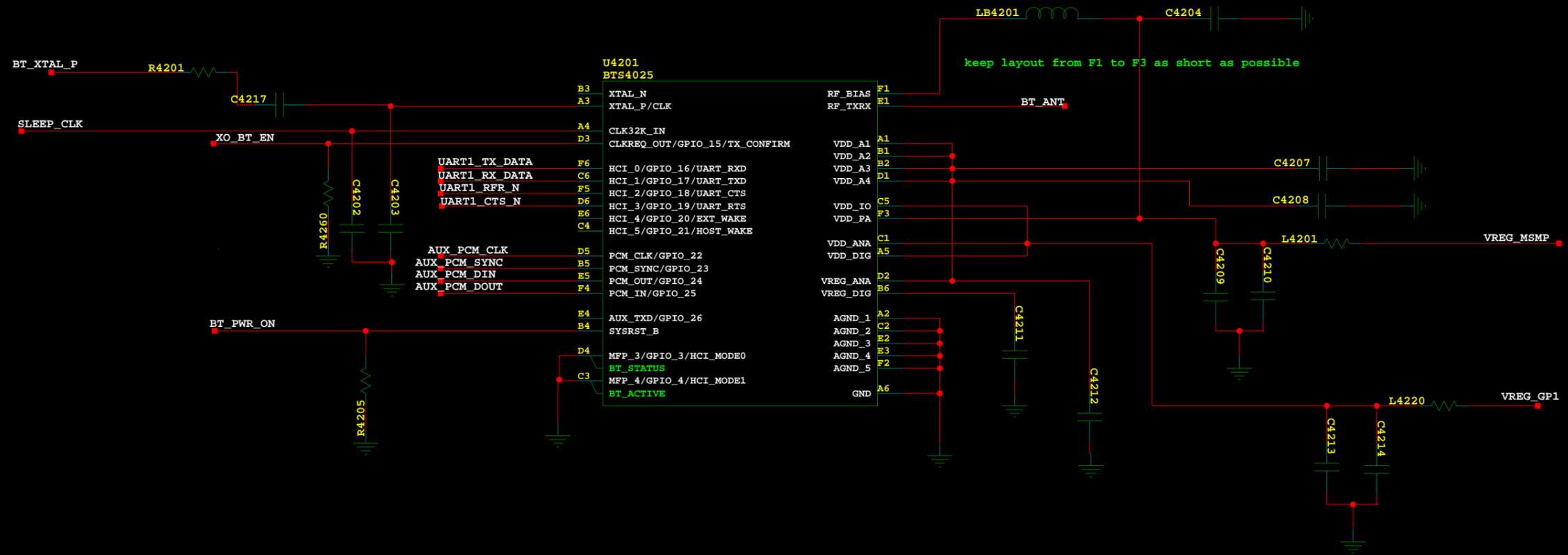
D

D

The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558				
				HD2U752M	00595278
REVIEWED	ZHAOLVXIA 62650				
			VER	PART_NUMBER	SHEET 29 OF 30
				03020WRD	HUAWEI TECH CO.,LTD.

42. BT



The type and specification of the components refer to the BOM

				NA	06-23-2010
				ECA NO	DATE
DESIGNED	SHIYUKUN 00111558	HD2U752M		00595278	
REVIEWED	ZHAOLVXIA 62650	VER	PART_NUMBER	SHEET 30 OF 30	
			03020WRD	HUAWEI TECH CO.,LTD.	