

BB SCHEMATICS

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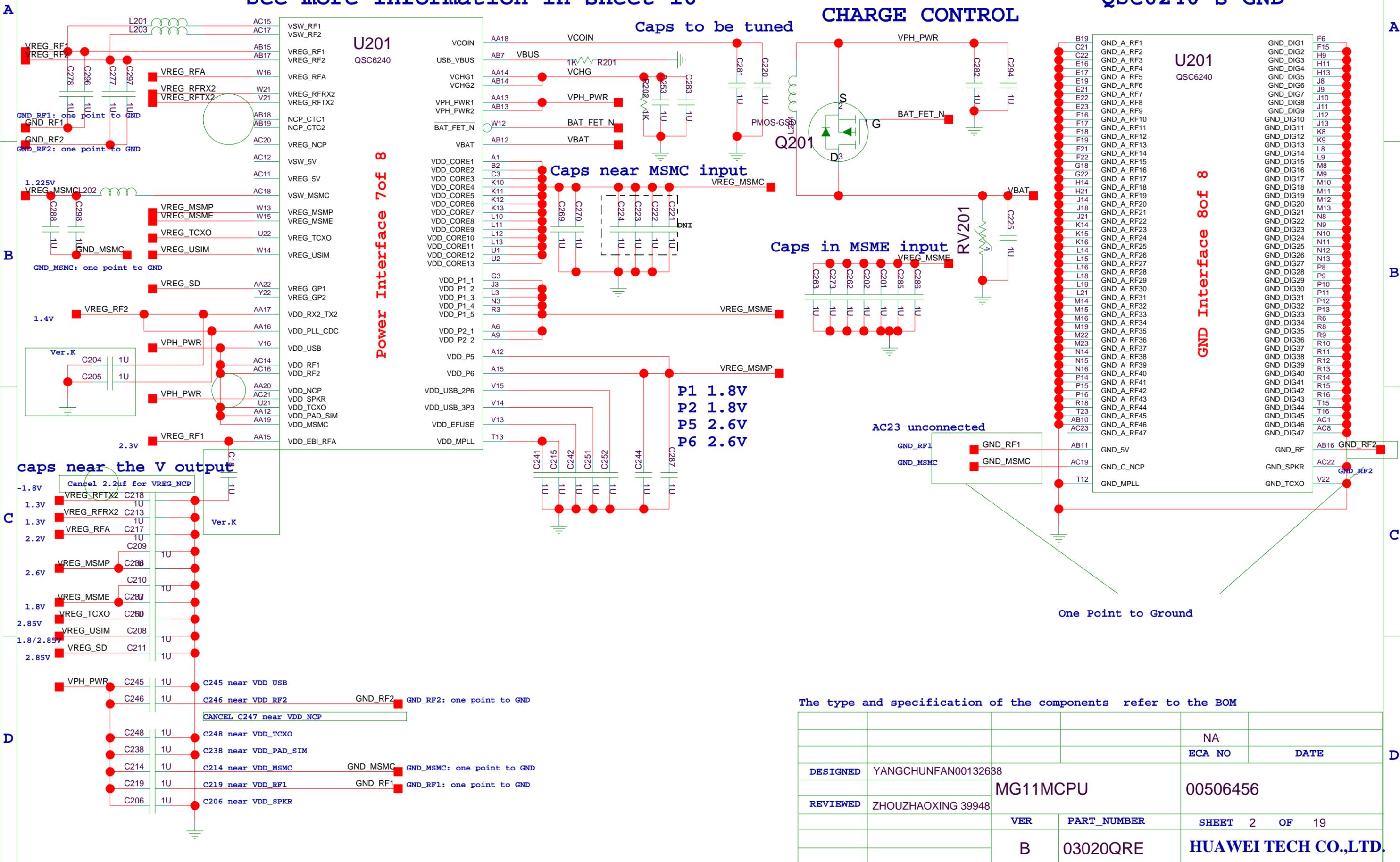
The type and specification of the components refer to the BOM

				NA	2009-3-4
				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638			00506456	
REVIEWED	ZHOUZHAOXING 39948			MG11MCPU	
		VER	PART_NUMBER	SHEET 1 OF 19	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

2. QSC6240 POWER/GROUND

See more information in sheet 16

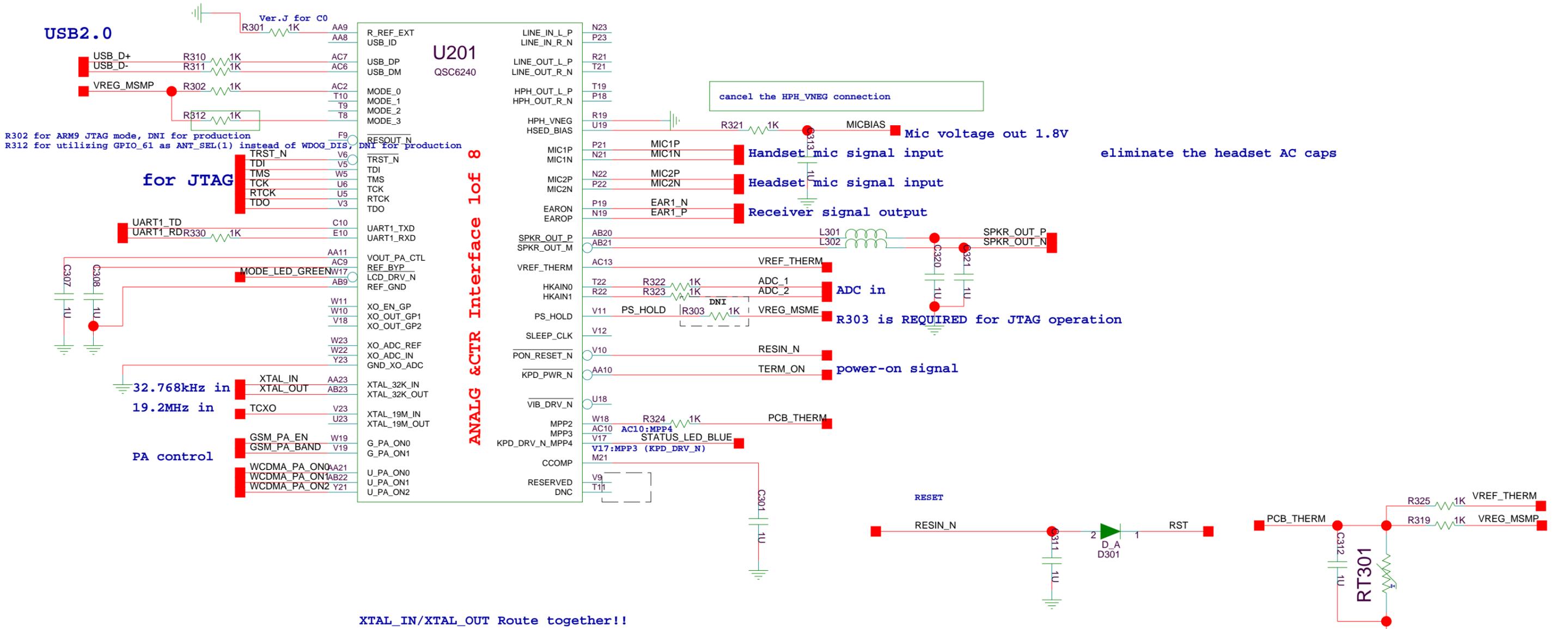
QSC6240's GND



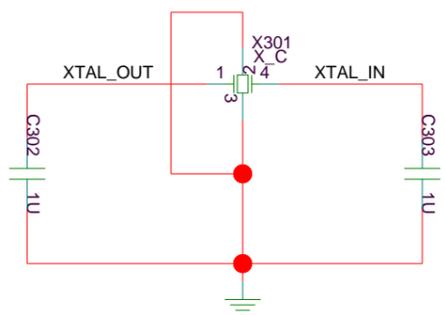
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				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638		MG11MCPUR		00506456
REVIEWED	ZHOUSHAOXING 39948		VER	PART_NUMBER	SHEET 2 OF 19
			B	03020QRE	HUAWEI TECH CO.,LTD.

3. QSC6240 Analog/CFG/CLOCK/RF Interface



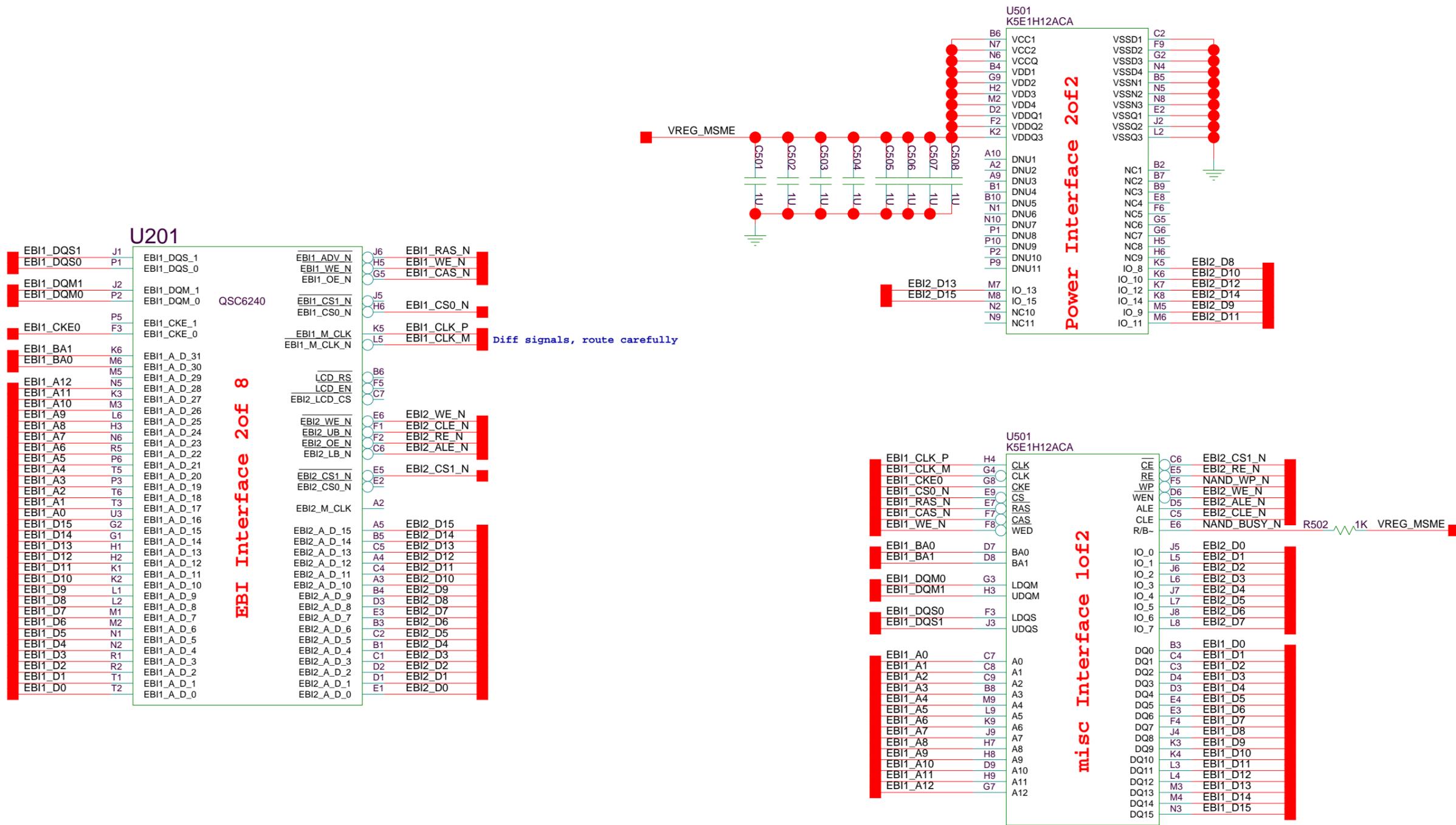
XTAL_IN/XTAL_OUT Route together!!



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	VER	PART_NUMBER	SHEET 3 OF 19		
	B	03020QRE	HUAWAI TECH CO.,LTD.		

4. QSC6240 MEMORY



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				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638		MG11MCPU		00506456
REVIEWED	ZHOUSHAOXING 39948				
	VER	PART_NUMBER	SHEET 4 OF 19		
	B	03020QRE	HUAWAI TECH CO.,LTD.		

5. QSC6240 GPIOs

See more informations in sheet 6

2 GPIOs
P5:2.6V level

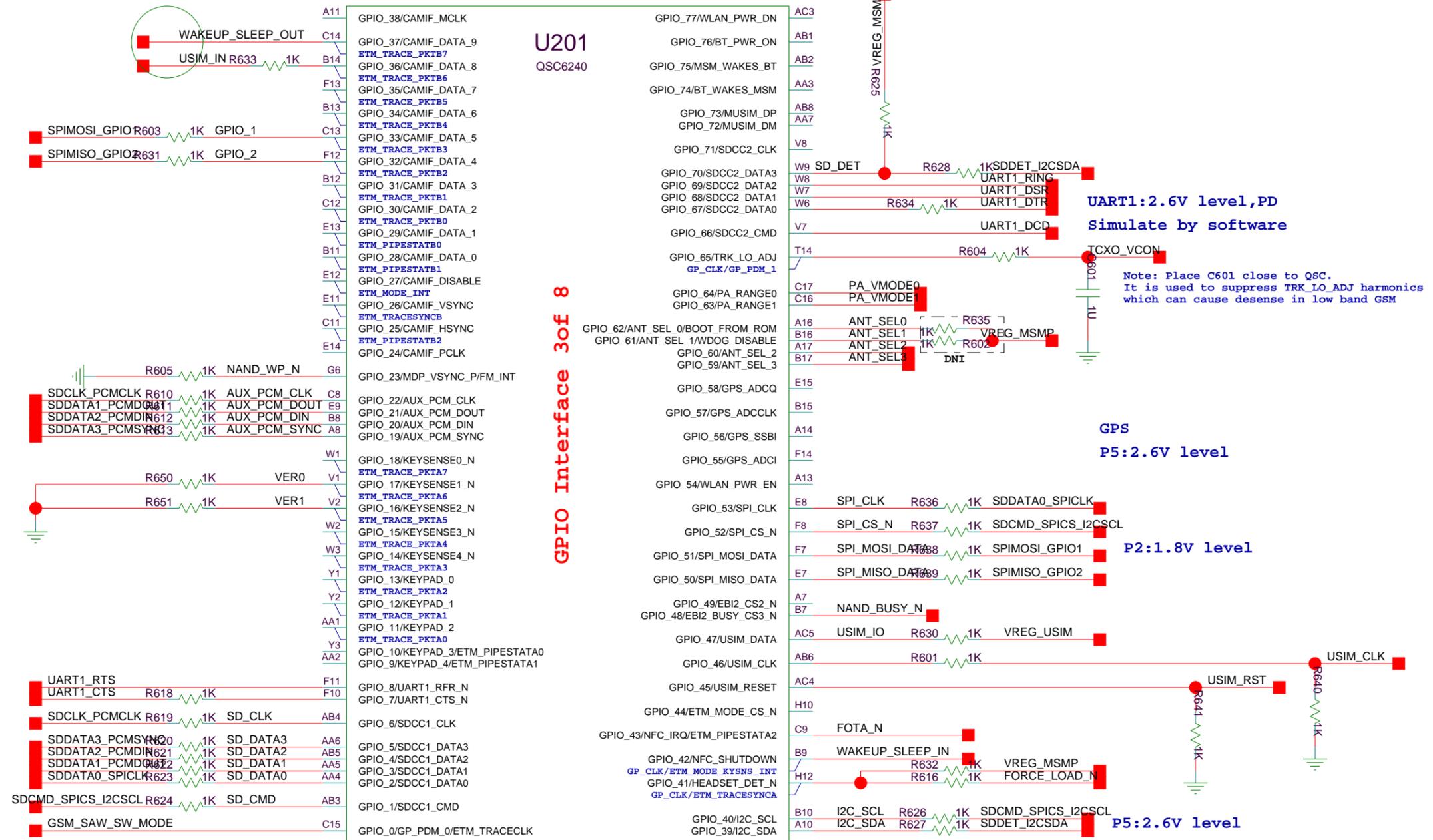
AUX_PCM
P5:2.6V level

VER0 and VER1 for Hardware difference

VER0	VER1	Hardware
0	0	
0	1	
1	0	
1	1	

P5:2.6V level

P7:2.6V level



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	VER	PART_NUMBER	SHEET 5 OF 19		
	B	03020QRE	HUAWAI TECH CO.,LTD.		

6.GPIO mapping

GPIO0	GSM_SAW_SW_MODE	P6/PD
GPIO1	SD_CMD	P7/PD
GPIO2	SD_DATA0	P7/PD
GPIO3	SD_DATA1	P7/PD
GPIO4	SD_DATA2	P7/PD
GPIO5	SD_DATA3	P7/PD
GPIO6	SD_CLK	P7/PD
GPIO7	UART1_CTS	P5/PD
GPIO8	UART1_RTS	P5/PU
GPIO9		P1/PU
GPIO10		P1/PU
GPIO11		P1/PU
GPIO12		P1/PU
GPIO13		P1/PU
GPIO14		P1/PU
GPIO15		P1/PU
GPIO16	VER1	P1/PU
GPIO17	VER0	P1/PU
GPIO18		P1/PU
GPIO19	AUX_PCM_SYNC	P5/PD
GPIO20	AUX_PCM_DIN	P5/PU
GPIO21	AUX_PCM_DOUT	P5/PD
GPIO22	AUX_PCM_CLK	P5/PD
GPIO23	NAND_WP_N	P2/PD
GPIO24		P5/PD
GPIO25		P5/PD
GPIO26		P5/PD
GPIO27		P5/PU
GPIO28		P5/PD
GPIO29		P5/PD
GPIO30		P5/PD
GPIO31		P5/PD
GPIO32	GPIO_1	P5/PD
GPIO33	GPIO_2	P5/PD

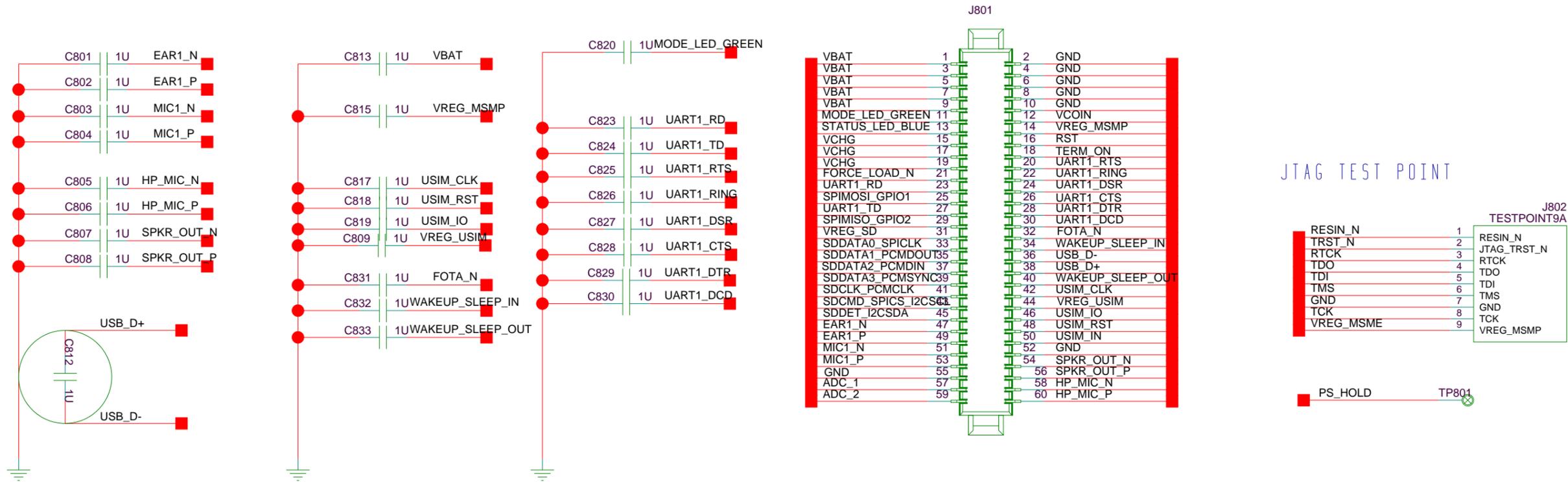
GPIO34		P5/PD
GPIO35		P5/PD
GPIO36		P5/PD
GPIO37		P5/PD
GPIO38		P5/PD
GPIO39	I2C_SDA	P5/PU
GPIO40	I2C_SCL	P5/PU
GPIO41	FORCE_LOAD_N	P5/PU
GPIO42	USIM_IN	P5/PU
GPIO43	HOST_WAKEUP	P5/PU
GPIO44		P5/PD
GPIO45	USIM_RST	P3/PD
GPIO46	USIM_CLK	P3/PD
GPIO47	USIM_IO	P3/PD
GPIO48	NAND_BUSY_N	P2/PU
GPIO49		P2/PU
GPIO50	SPI_MISO_DATA	P2/PD
GPIO51	SPI_MOSI_DATA	P2/PD
GPIO52	SPI_CS_N	P2/PU
GPIO53	SPI_CLK	P2/PD
GPIO54		P5/PD
GPIO55		P5/PD
GPIO56		P5/PD
GPIO57		P5/PD
GPIO58		P5/PD
GPIO59	ANT_SEL3	P6/PD
GPIO60	ANT_SEL2	P6/PD
GPIO61	ANT_SEL1	P6/PD
GPIO62	ANT_SEL0	P6/PD
GPIO63	PA_VMODE1	P6/PD
GPIO64	PA_VMODE0	P6/PD
GPIO65	TCXO_VCON	P6/PD
GPIO66	UART1_DCD	P7/PD
GPIO67	UART1_DTR	P7/PD

GPIO68	UART1_DSR	P7/PD
GPIO69	UART1_RING	P7/PD
GPIO70	SD_DET	P7/PD
GPIO71		P7/PD
GPIO72		P3/PD
GPIO73		P3/PD
GPIO74		P1/PD
GPIO75		P1/PD
GPIO76		P1/PD
GPIO77		P1/PD
GPIO78		P1/PD

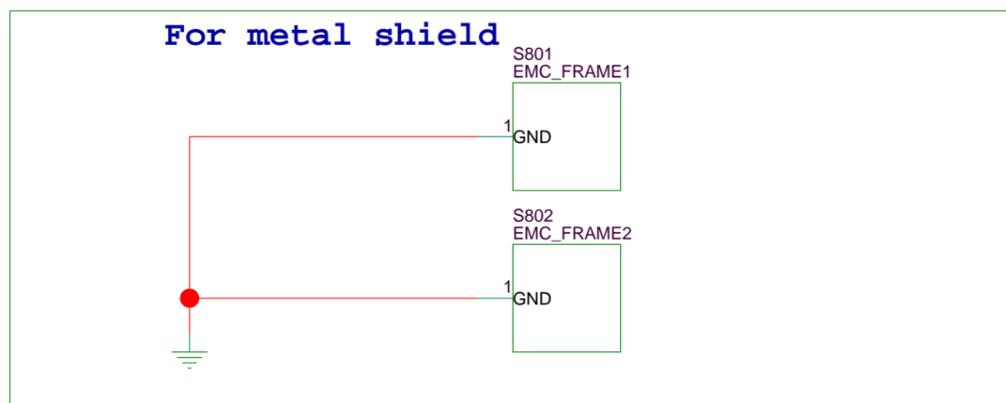
The type and specification of the components refer to the BOM

				NA	2009-3-4
				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638		MG11MCPU		00506456
REVIEWED	ZHOUSHAOXING 39948				
		VER	PART_NUMBER	SHEET 6 OF 19	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

7. Interface and Test points



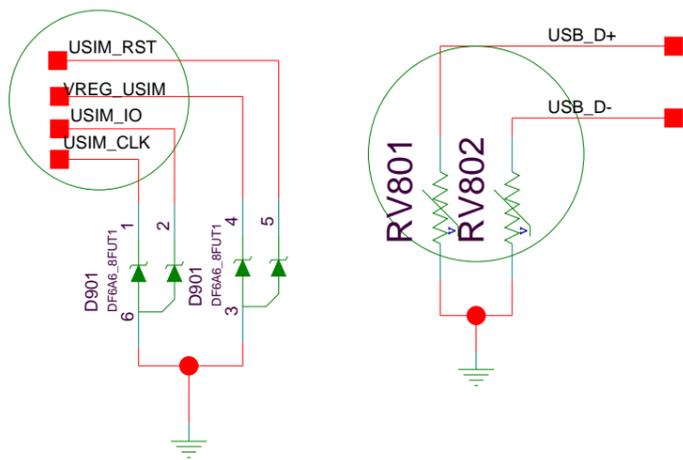
ATE TEST POINTs are put on the development board.



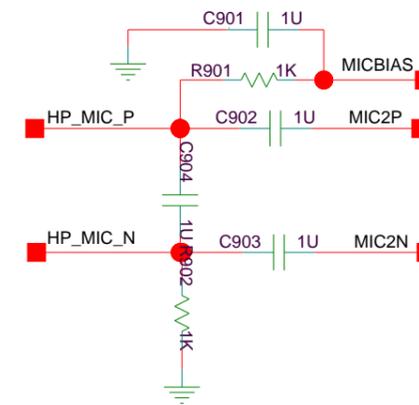
The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638			00506456	
REVIEWED	ZHOUSHAOXING 39948			00506456	
	VER	PART_NUMBER	SHEET 7 OF 19		
	B	03020QRE	HUAWEI TECH CO.,LTD.		

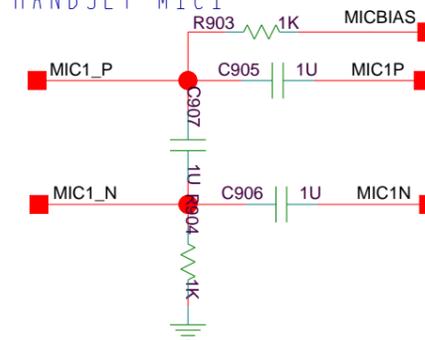
8.MIC and ESD



HEADPHONE MIC2



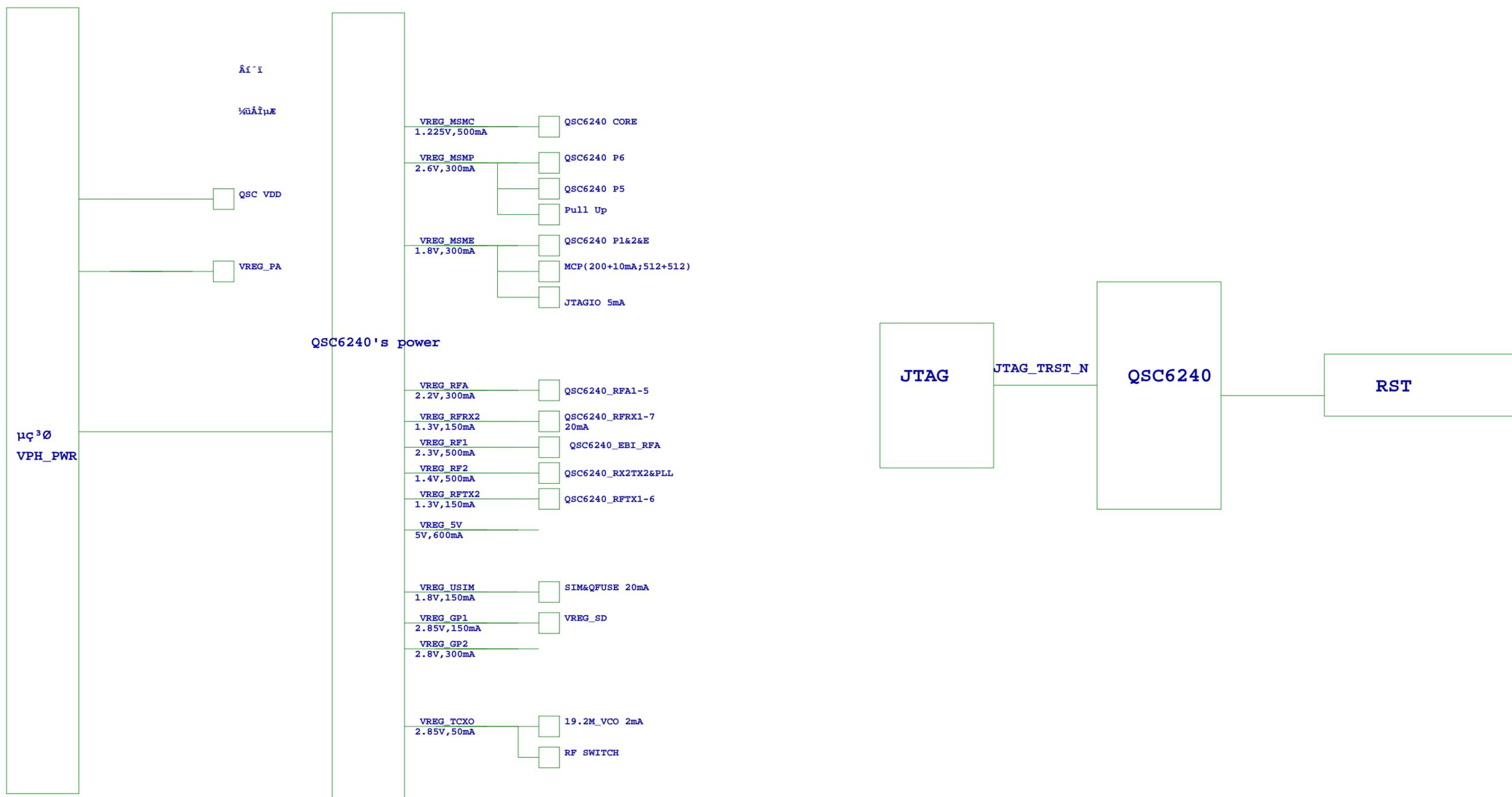
HANDSET MIC1



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638			MG11MCPU	
REVIEWED	ZHOUZHAOXING 39948			00506456	
		VER	PART_NUMBER	SHEET 8 OF 19	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

9. POWER TREE AND RESET TREE



The type and specification of the components refer to the BOM

				NA	2009-3-4
				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638			MG11MCPUCPU	
REVIEWED	ZHOUSHAOXING 39948			00506456	
		VER	PART_NUMBER	SHEET 9 OF 19	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

30. RF TO BASEBAND I/O PORTS

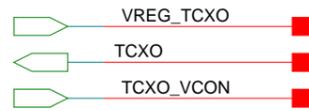
POWER SUPPLY FOR QSC6240 RF



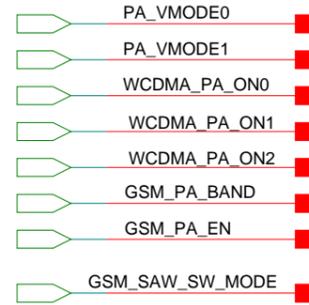
FOR ANTENNA SWITCH CONTROL



FOR TCXO



FOR PA CONTROL



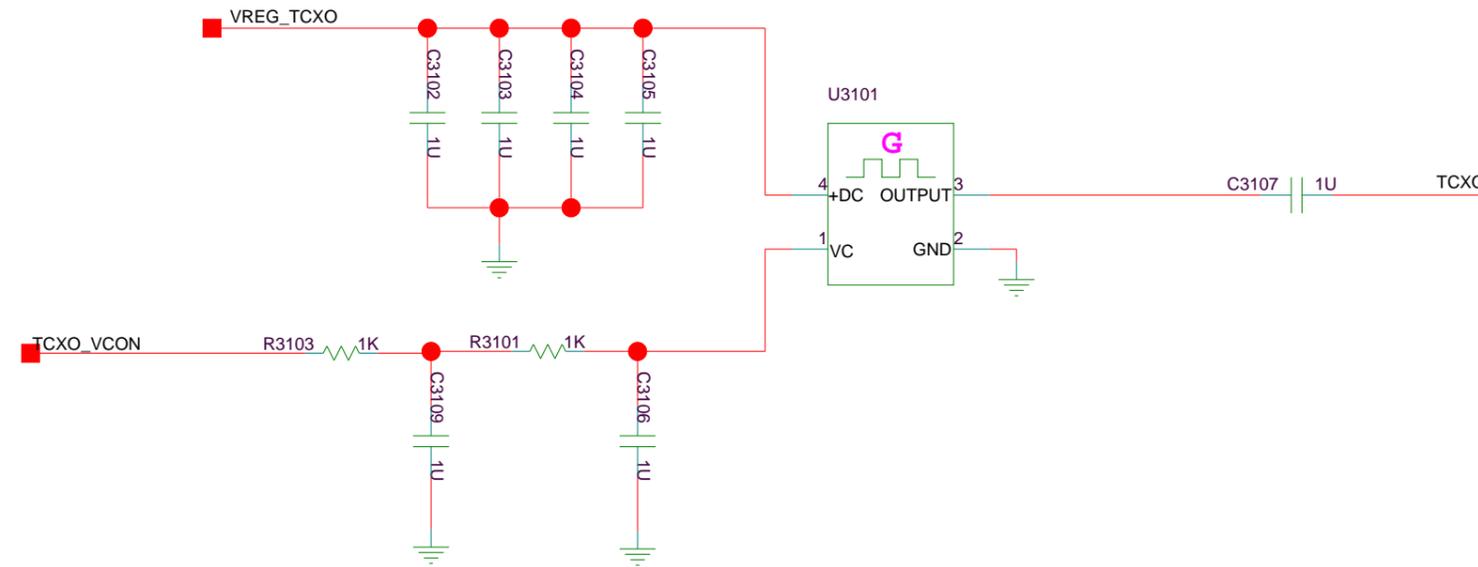
FOR PA POWER



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				ECA NO	DATE
DESIGNED	YANGCHUNFAN00132638		MG11MCPU		00506456
REVIEWED	ZHOUZHAOXING 39948				
		VER	PART_NUMBER	SHEET 10 OF 19	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

31. 19.2MHz VCTCXO



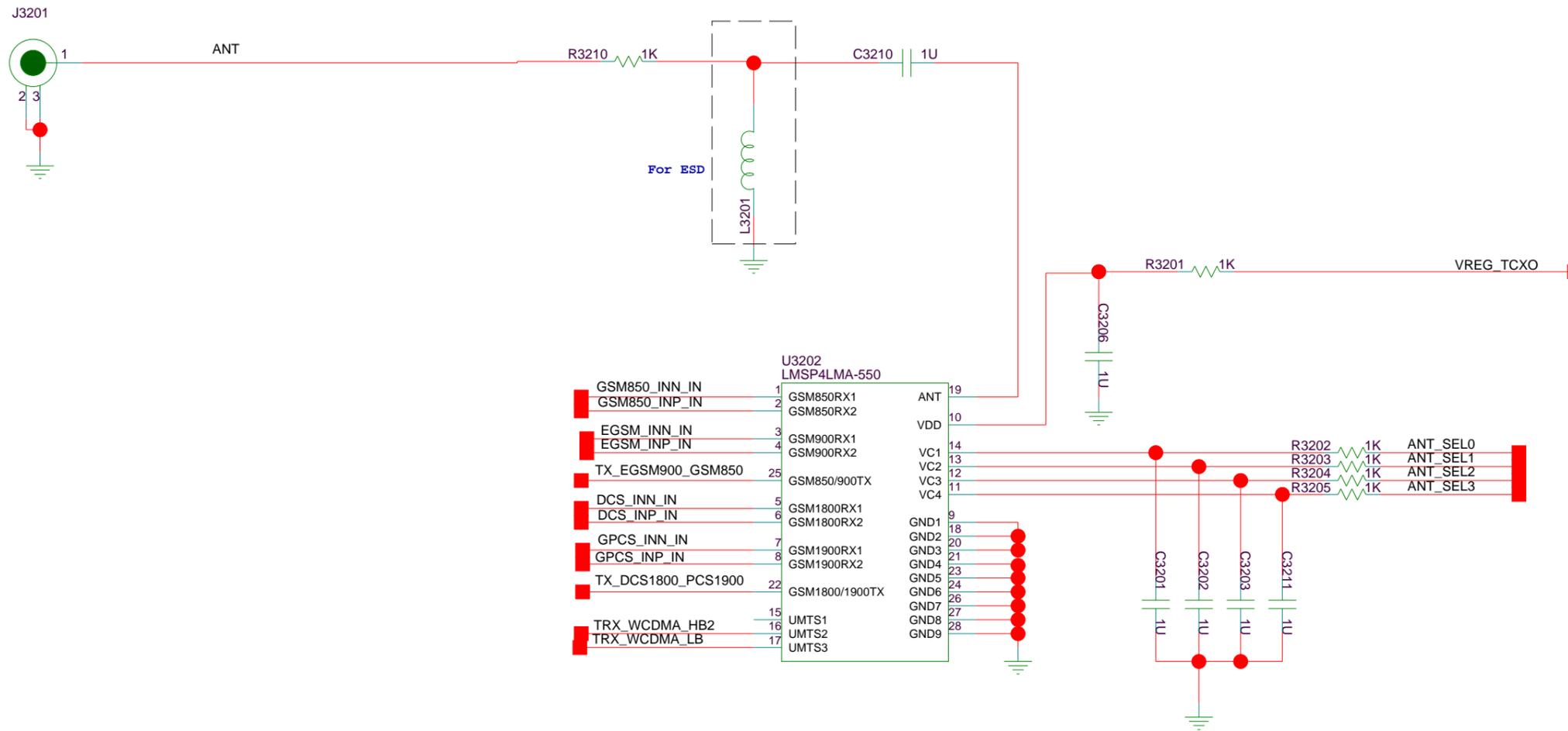
CODE	Load
12070006	10k//10pF
00442814	10k//10pF(for GPS)
	Load
12070006	10k//10pF
12070011	5k//15pF
12070013	5k//40pF

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				ECA NO	DATE
DESIGNED	FANRUDONG 00139295	MG11MCPU		00506456	
REVIEWED	CHENEN 54502	VER	PART_NUMBER	SHEET 11 OF 19	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

32. Antenna Switchplexer

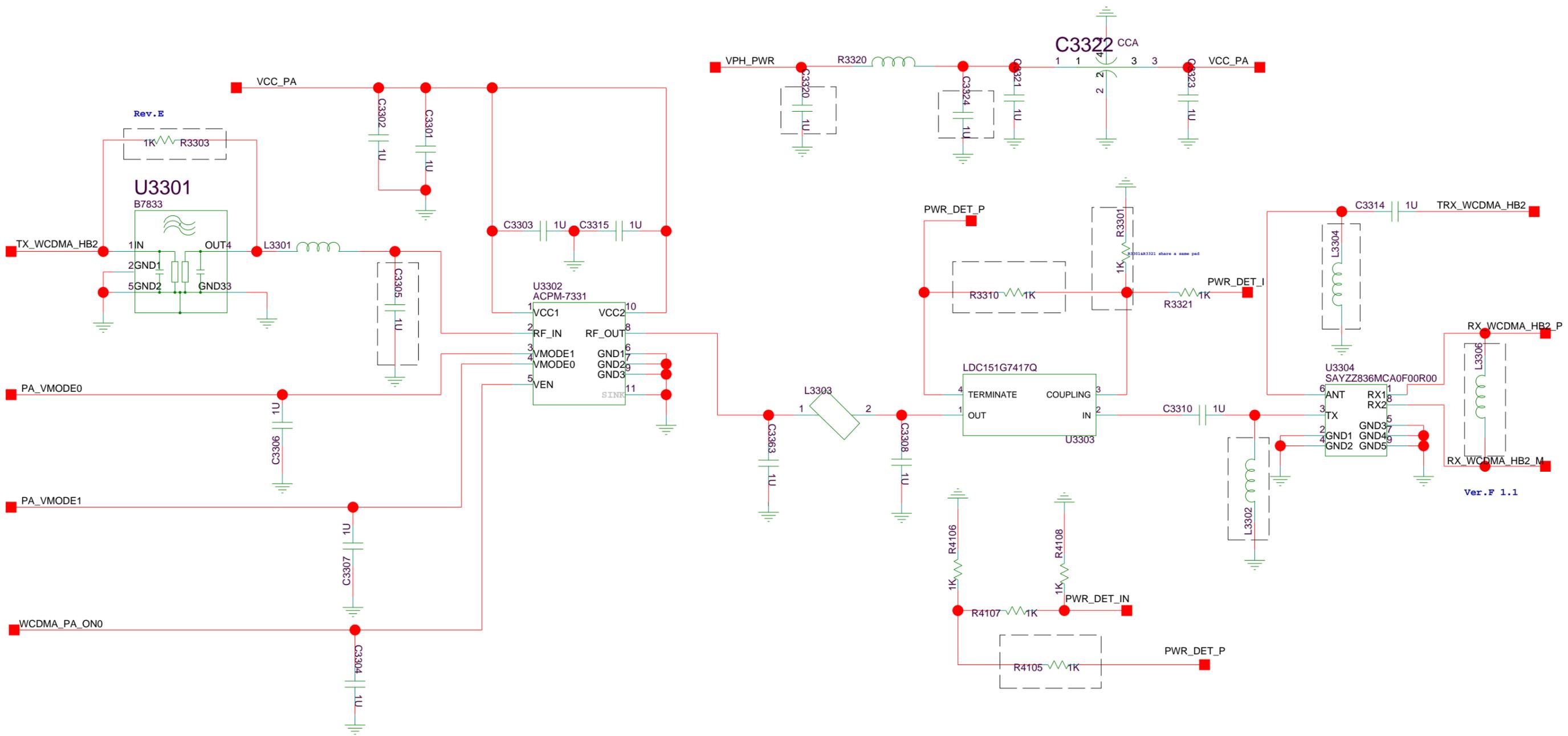
please add pads(Ground) to solder the RF cable



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				ECA NO	DATE
DESIGNED	FANRUDONG 00139295	MG11MCPU		00506456	
REVIEWED	CHENEN 54502	VER	PART_NUMBER	SHEET 12 OF 18	
		B	03020QRE	HUAWAI TECH CO.,LTD.	

33. WCDMA IMT 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

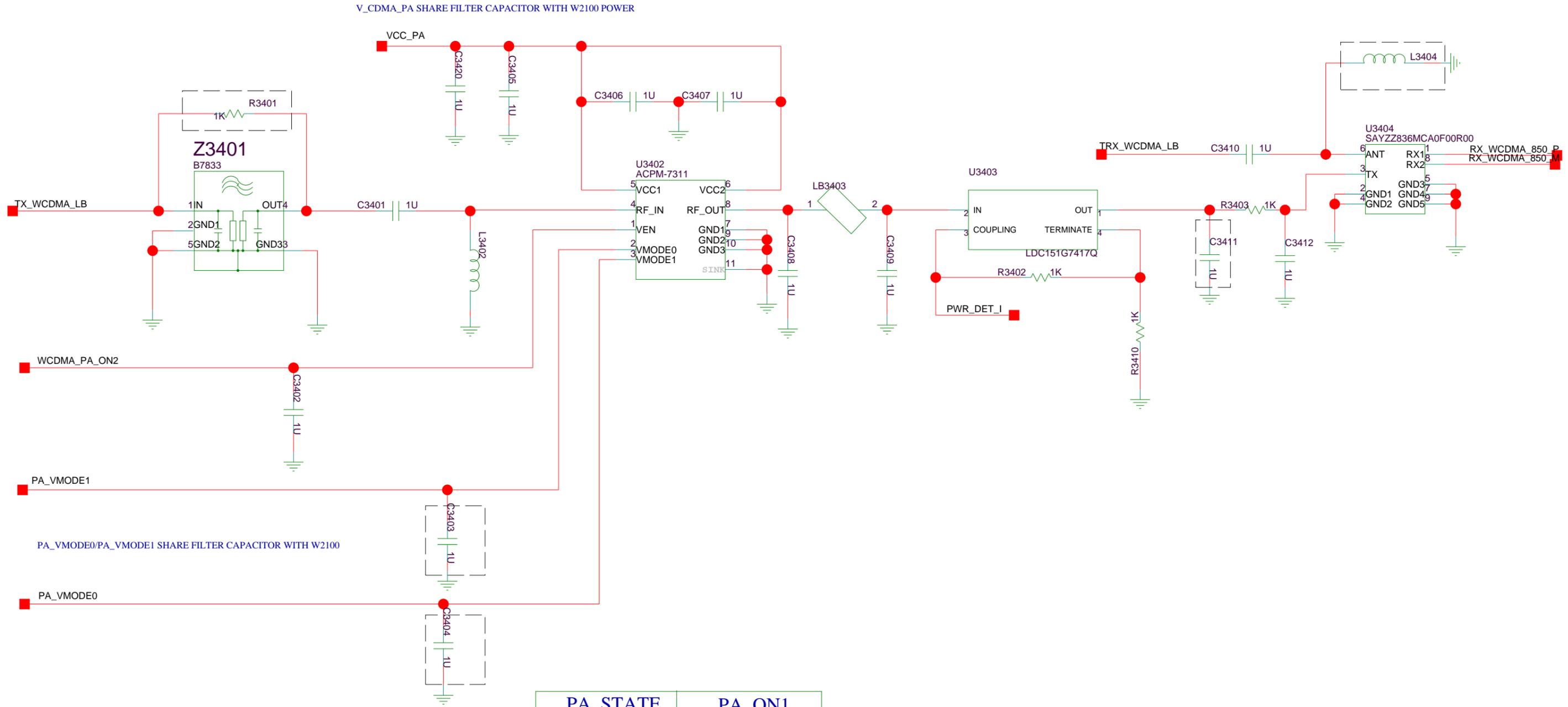
PA_VMODE0	PA_VMODE1	MODE
L	L	High Power
L	H	Middle Power
H	H	Low Power

WCDMA_PA_ON0	W2100
WCDMA_PA_ON2	W900

The type and specification of the components refer to the BOM

DESIGNED	FANRUDONG 00139295	MG11MCPUR	00506456
REVIEWED	CHENEN 54502	VER	PART_NUMBER
		B	03020QRE
			SHEET 13 OF 18
			HUAWEI TECH CO.,LTD.

35. WCDMA 900 Power Amplifier



PA_STATE	PA_ON1
OFF	L
ON	H

POWER MODE	PA_VMODE1	PA_VMODE0
LOW POWER	L(>2.15V)	L(>2.15V)
MEDIUM POWER	L(>2.15V)	H(<0.5V)
HIGH POWER	H(<0.5V)	H(<0.5V)

Note: L & H are FTM logical controls.

The type and specification of the components refer to the BOM

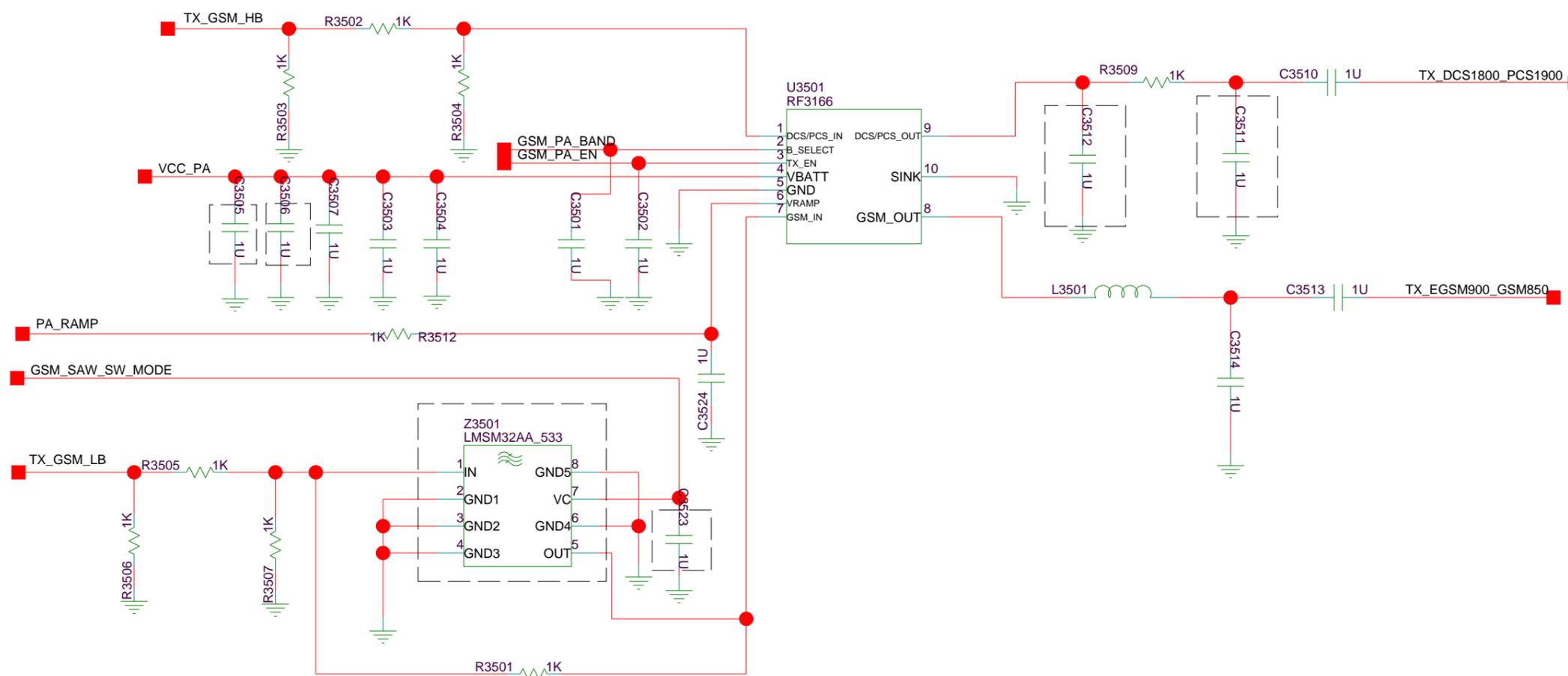
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DESIGNED	FANRUDONG 00139295	MG11MCPU		00506456	
REVIEWED	CHENEN 54502	VER	PART_NUMBER	SHEET 14 OF 18	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

36. GSM Quad_band_PA

GSM_PA_EN	PA
H	ON
L	OFF

GSM_PA_BAND	MODE
L	LOW BAND
H	HIGH BAND

Non-EDGE PA RF3196MS is used there which can be replaced by EDGE PA RF3161B(47100222,Pin to Pin compabile) for need.

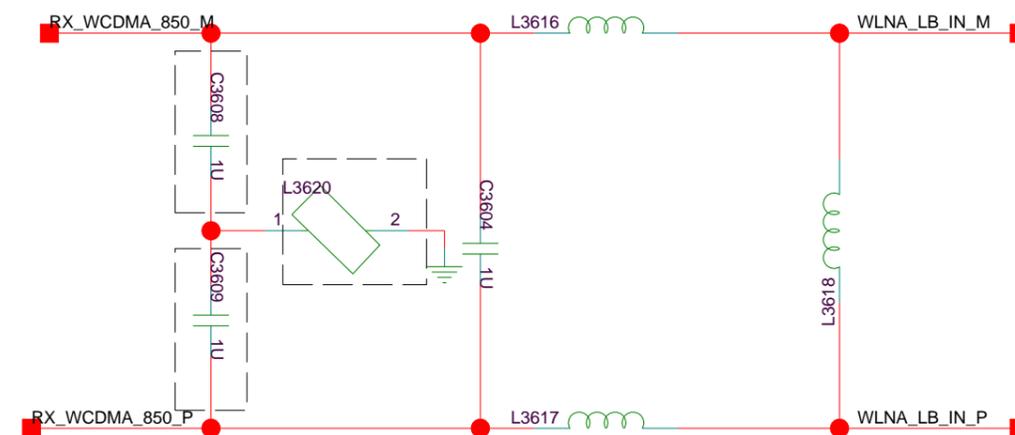
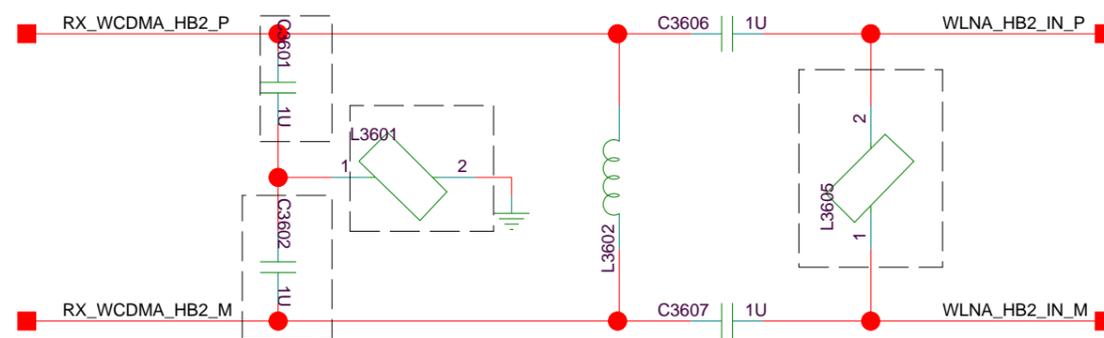


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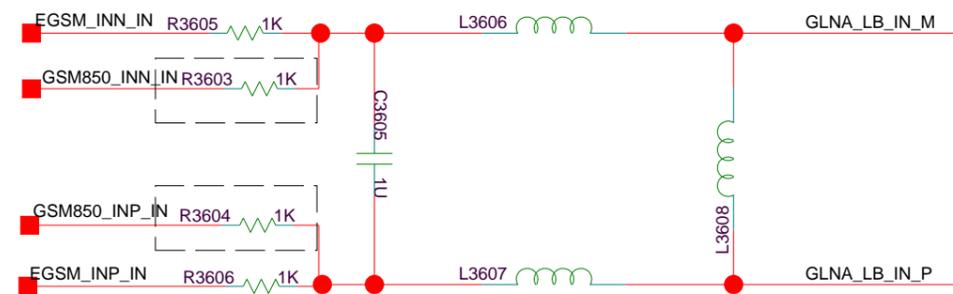
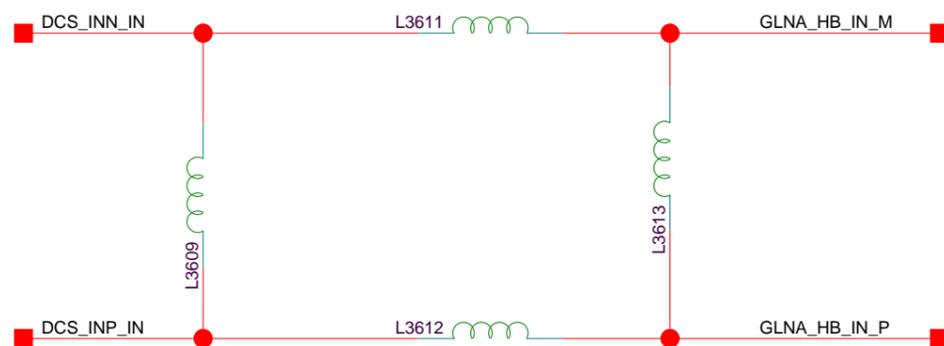
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REVIEWED	CHENEN 54502	VER	PART_NUMBER	SHEET 15 OF 18	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

37. MATCHING CIRCUIT

UMTS PRIMARY RX MATCHING



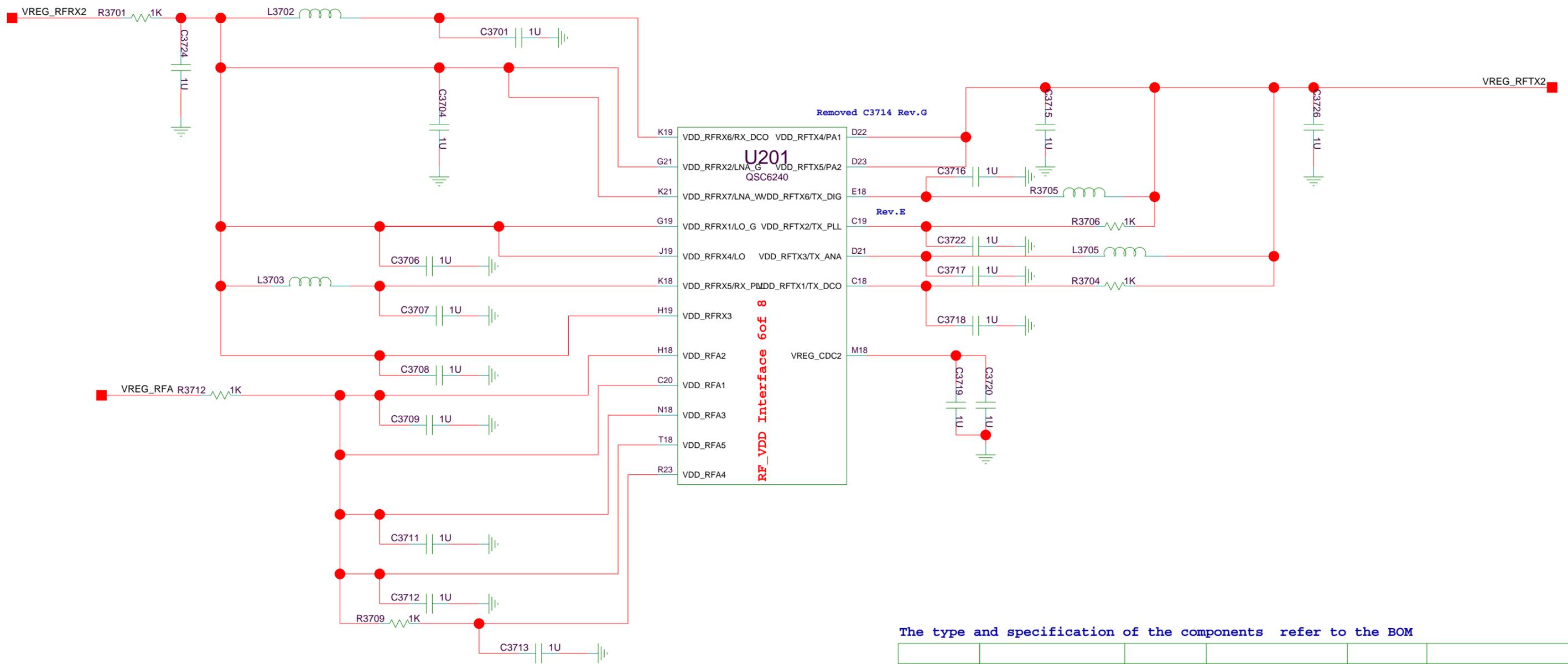
GSM RX MATCHING



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				ECA NO	DATE
DESIGNED	FANRUDONG 00139295	MG11MCPU		00506456	
REVIEWED	CHENEN 54502	VER	PART_NUMBER	SHEET 16 OF 18	
		B	03020QRE	HUAWEI TECH CO.,LTD.	

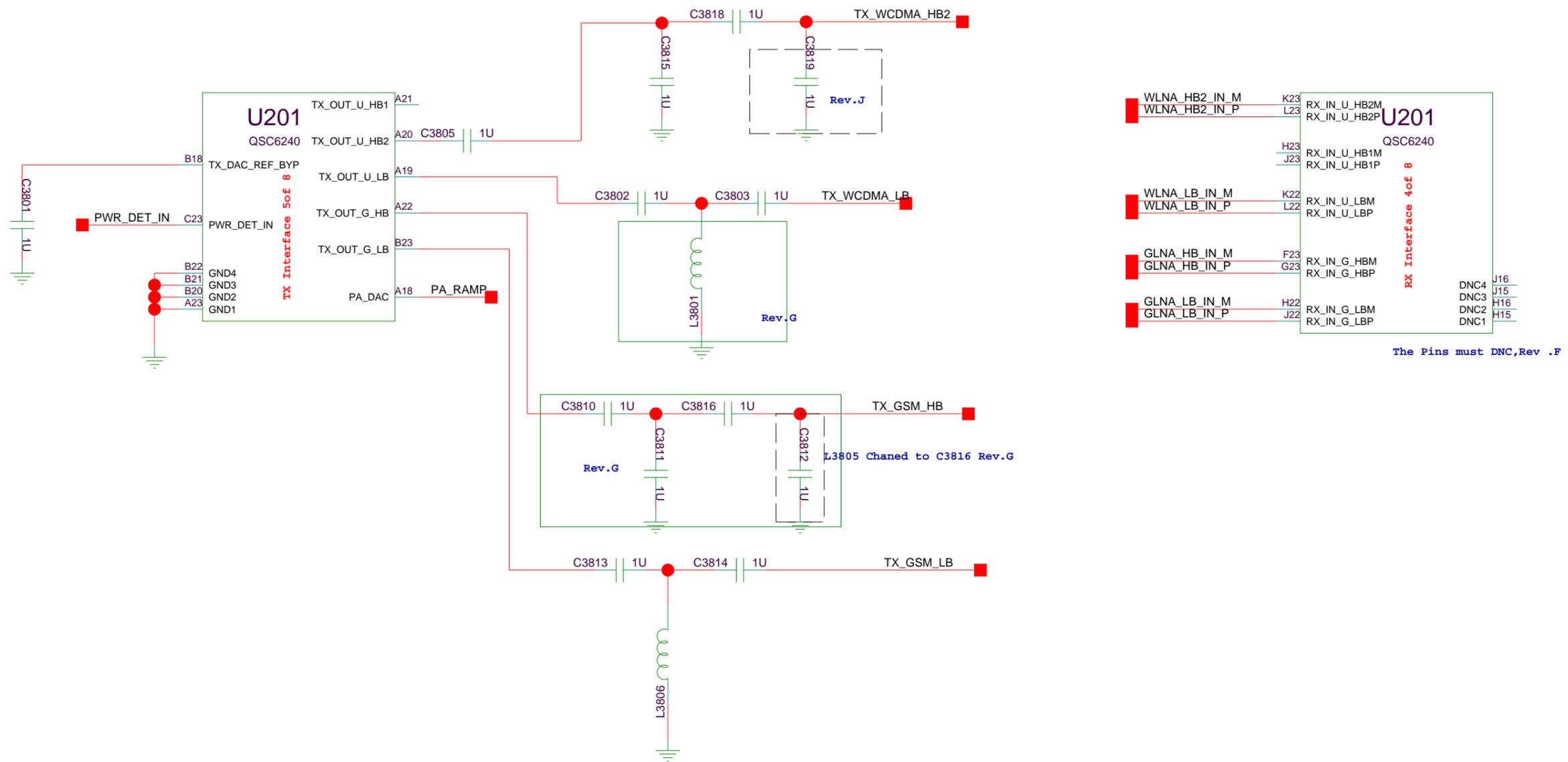
38. QSC6240 RF POWER



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	FANRUDONG 00139295	MG11MCPU		00506456	
REVIEWED	CHENEN 54502	VER	PART_NUMBER	SHEET 18 OF 19	
		B	03020QRE	HUAWAI TECH CO.,LTD.	

39. QSC6240 RX/TX Circuit



The Pins must DNC, Rev .F

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		B	03020QRE	HUAWEI TECH CO.,LTD.	