

BB SCHEMETIC

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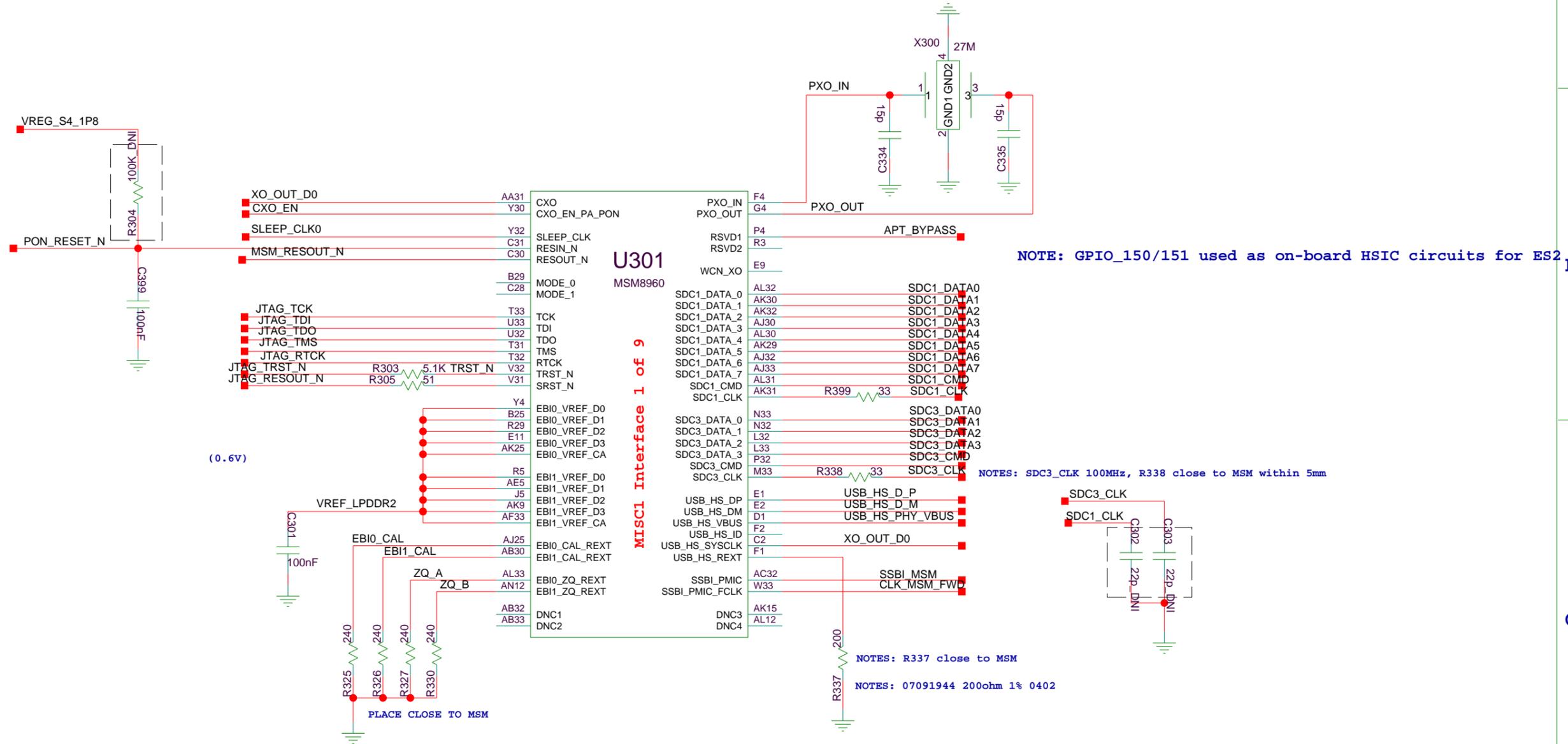
RF SCHEMETIC

30. RF/BB
- 31.
32. PRIMARY ATTENA SWTICH
33. PA_PMU
34. Multi Mode Multi Band PA
35. B9 TX & DUPLEXER
36. B21 TX & DUPLEXER
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40. GSM
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42. RTR2
43. DRX1
44. DRX2
45. BT/WLAN
46. GLONASS FRONT END
47. Felica RF
48. VCTCXO
- 50.ISDB-T/Tmm RF PART
- 51.

The type and specification of the components refer to the BOM

				1386390	2012-08-24
				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 1 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

3.MSM8960 control



The type and specification of the components refer to the BOM

				1386390	2012-08-24
				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 3 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

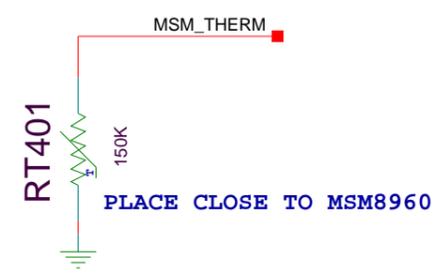
4.MSM8960 GPIO(0-74)



U301
MSM8960

MISC4 Interface 4 of 9

SMPS feedback point close to load except for RF power

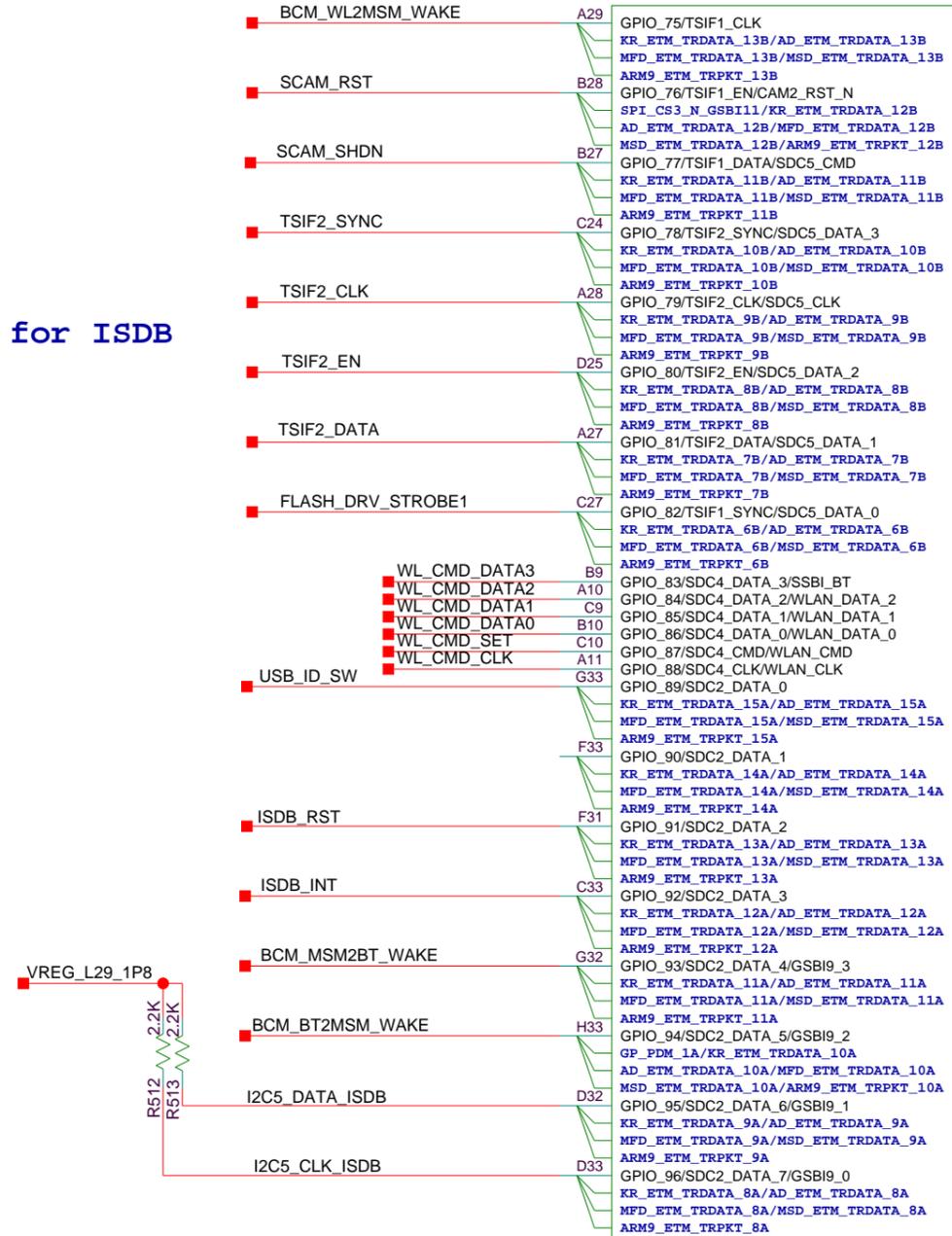


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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 4 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

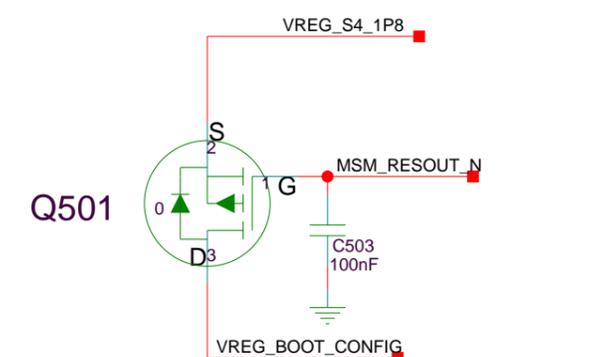
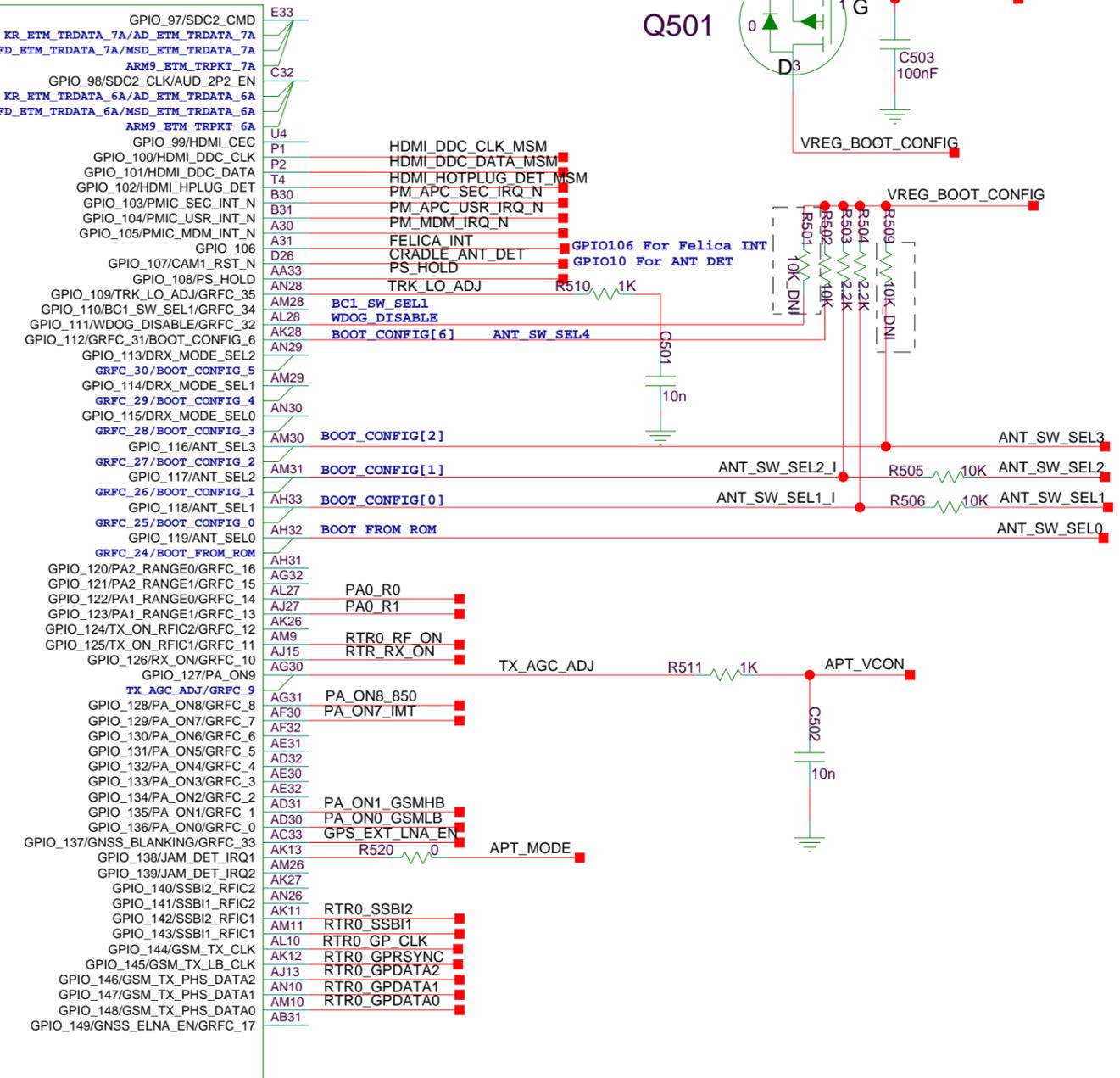
5.MSM8960 GPIO(75-149)

TSIF for ISDB



U301
MSM8960

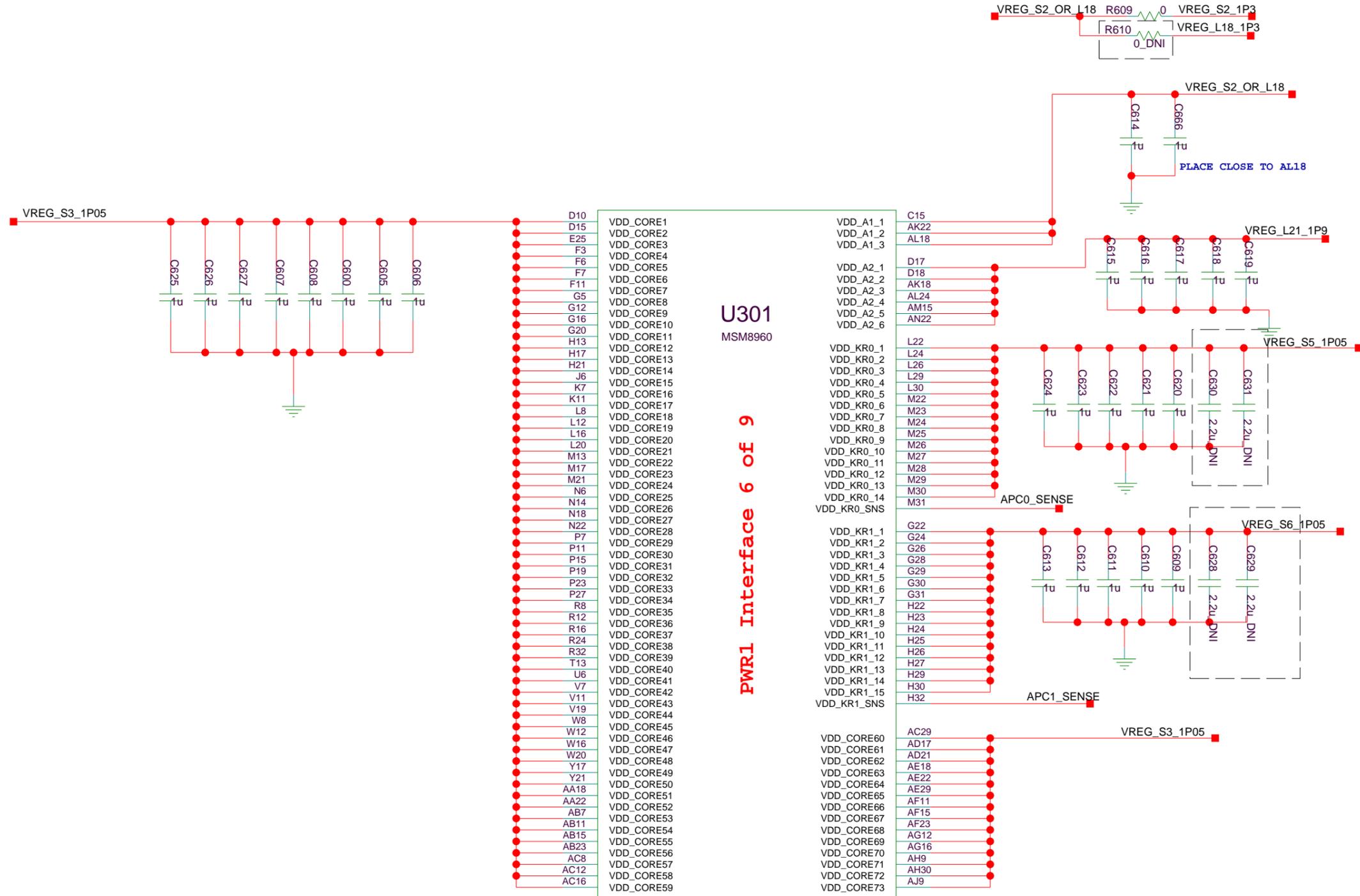
MISC5 Interface 5 of 9



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 5 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

6. MSM8960 Power1

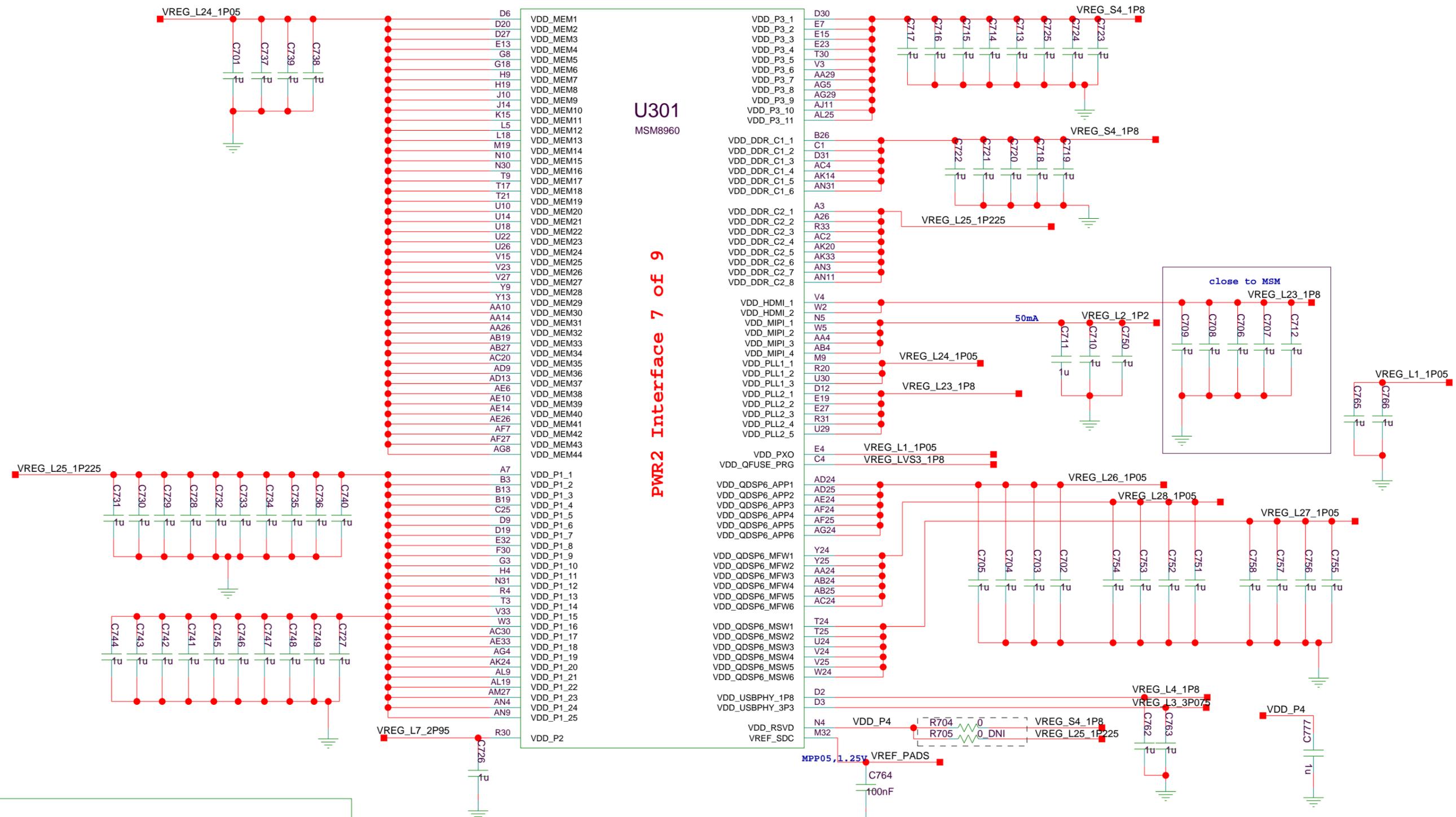


PWR1 Interface 6 of 9

The type and specification of the components refer to the BOM

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 6 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

7. MSM8960 Power2



U301
MSM8960
PWR2 Interface 7 of 9

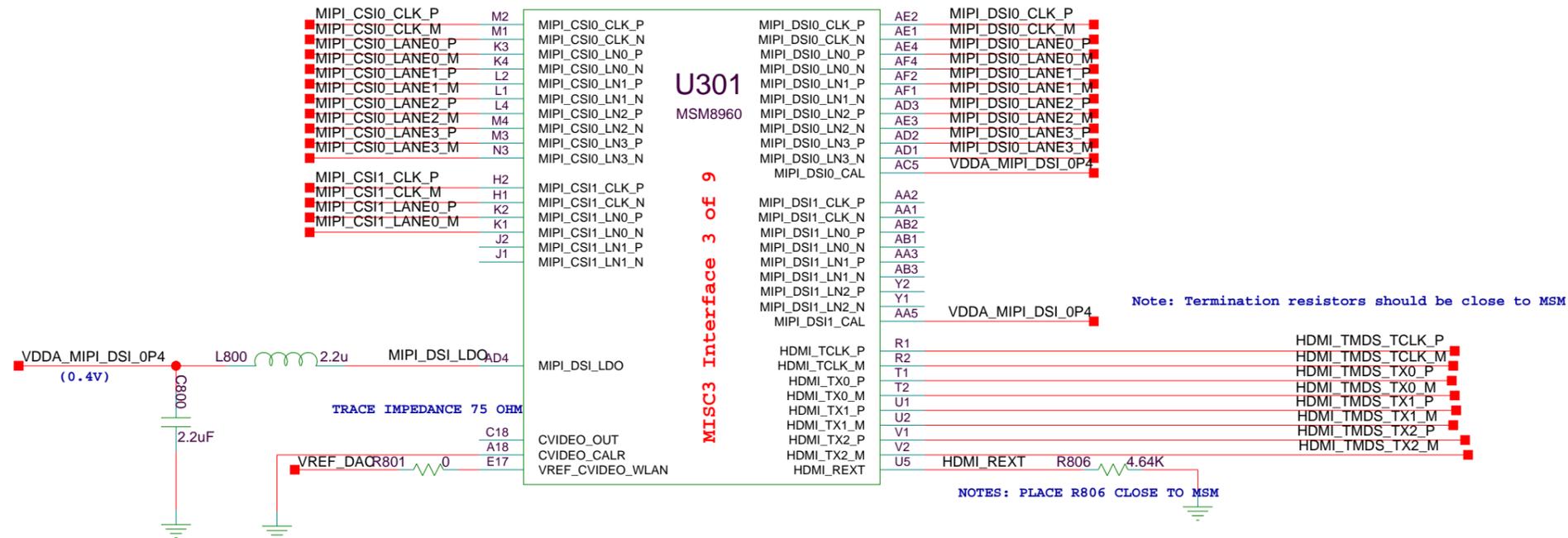
VDD_P4	
ES1	TIE TO VREG_L1_1P05
ES2 OR LATER	TIE TO VREG_S4_1P8 IF P4 PINS ARE USE AS GPIO
ES2 OR LATER	TIE TO VREG_L25_1P225 IF P4 PINS ARE USE AS HSIC INTERFACE

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM	03021RNJ_SCHZH
REVIEWED	JISHIFU 56304		
VER	PART_NUMBER	SHEET	7 OF 52
B	03021RNJ	HUAWEI TECH CO.,LTD.	

8. MSM8960 MIPI & HDMI

MIPI Traces are 100-Ohm diff pair; 50-Ohm single-ended; for CSI and DSI



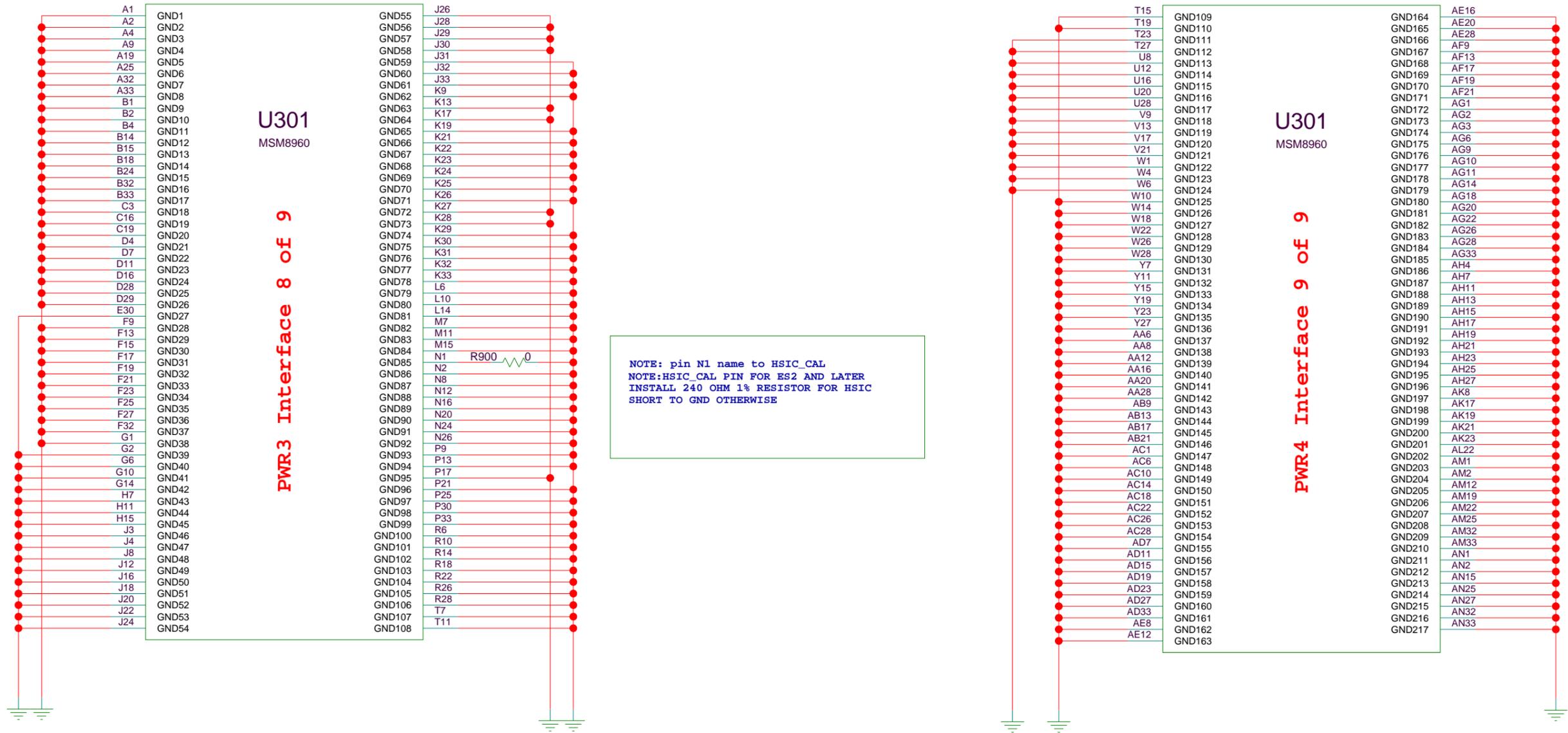
NOTE: If TV_OUT not implemented:

- 1) CVIDEO_OUT (C18): NC
- 2) CVIDEO_CALR (A18): GND
- 3) VREF_CVIDEO_WLAN (E17): VREF_DAC

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 8 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

9. MSM8960 GND

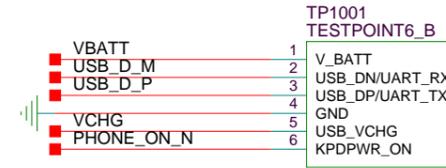


The type and specification of the components refer to the BOM

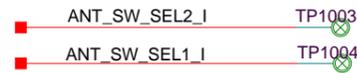
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		B	03021RNJ	HUAWAI TECH CO.,LTD.	

10.JTAG & TESTPOINT

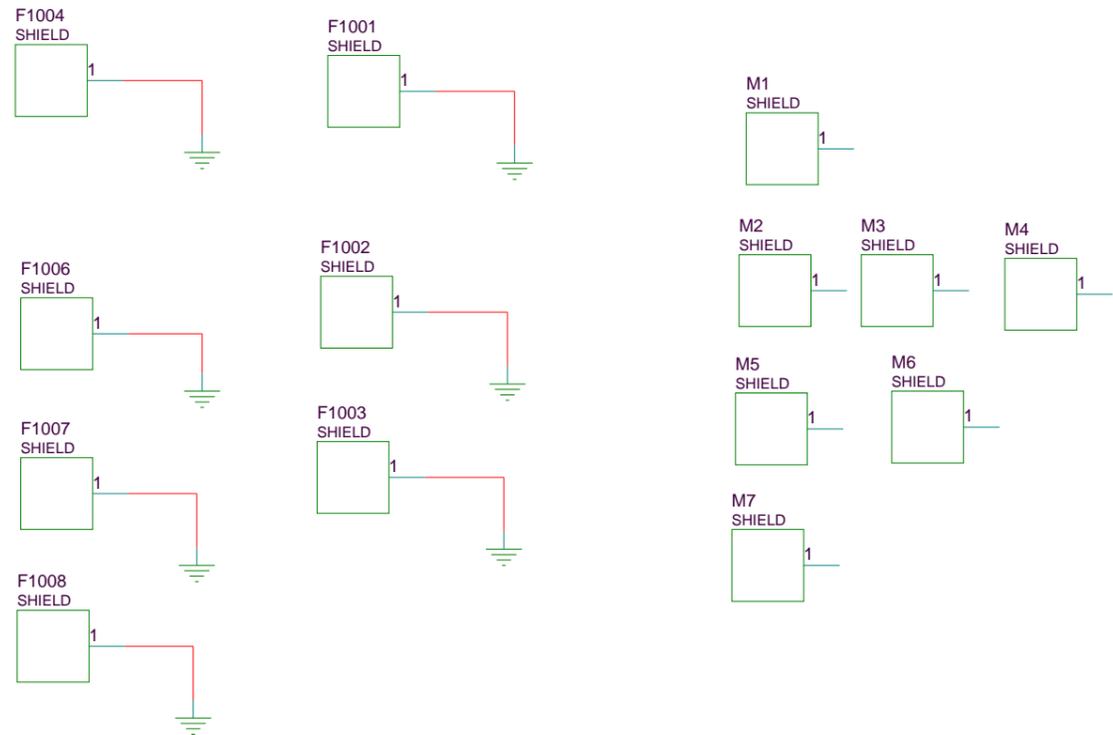
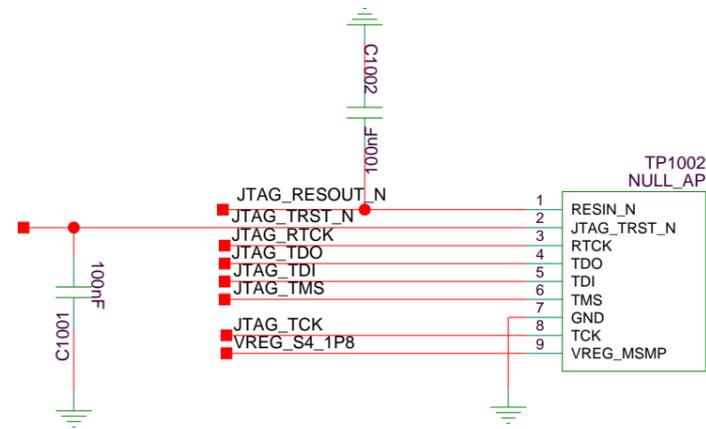
TEST POINT for CT and BT



Emergency Download



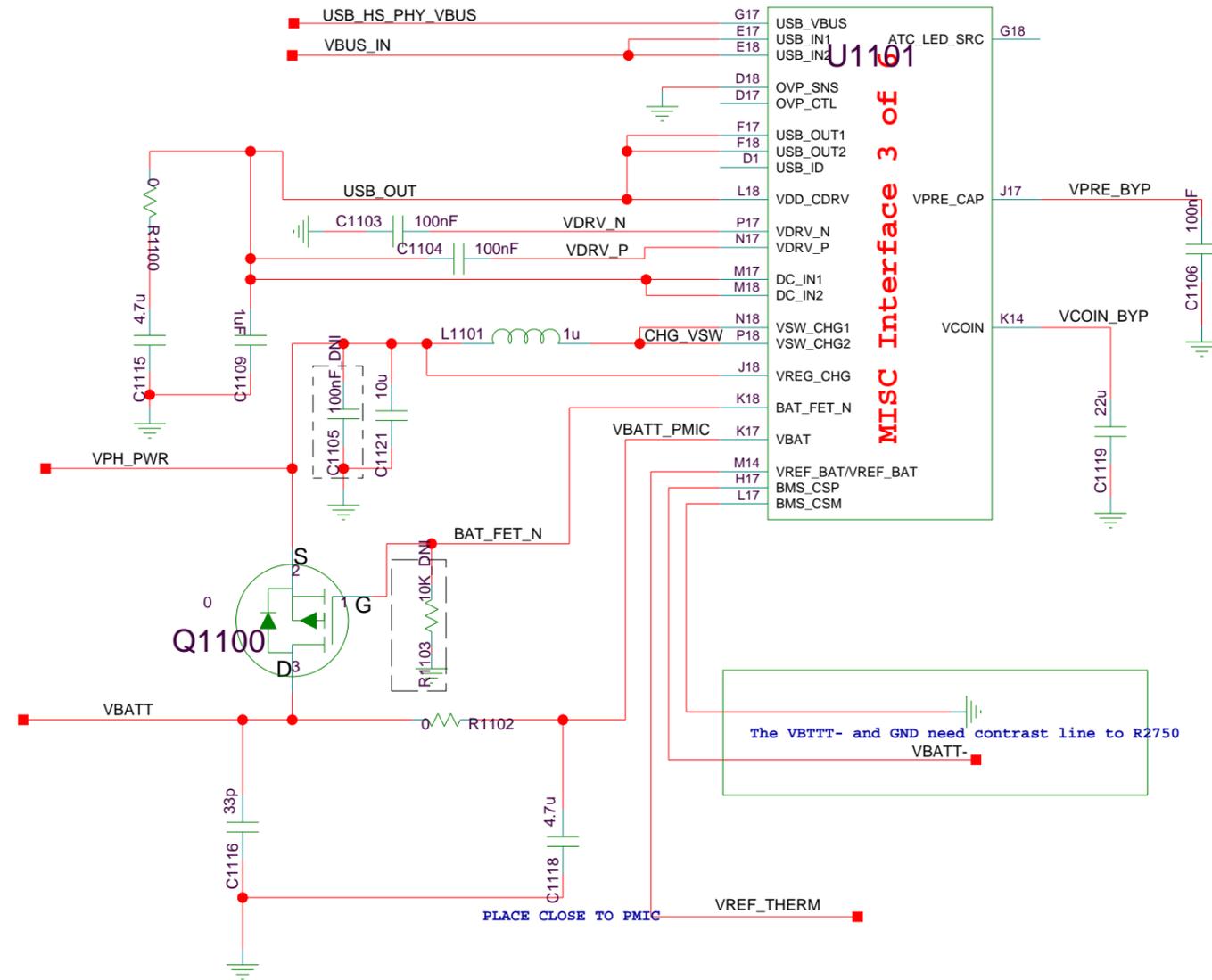
TEST POINT For JTAG



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		B	03021RNJ	HUAWEI TECH CO.,LTD.	

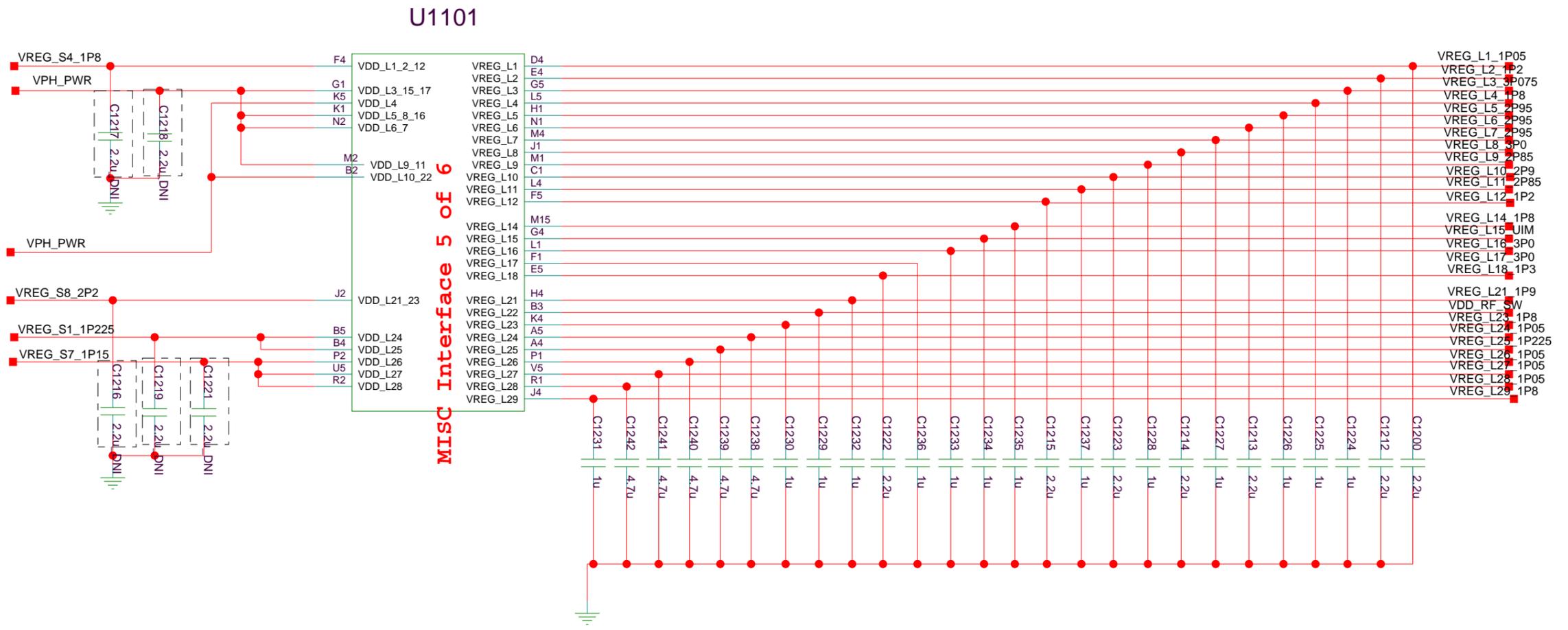
11. PM8921 CHARGING



The type and specification of the components refer to the BOM

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REVIEWED	JISHIFU 56304				
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		B	03021RNJ	HUAWEI TECH CO.,LTD.	

12. PM8921 VREG1

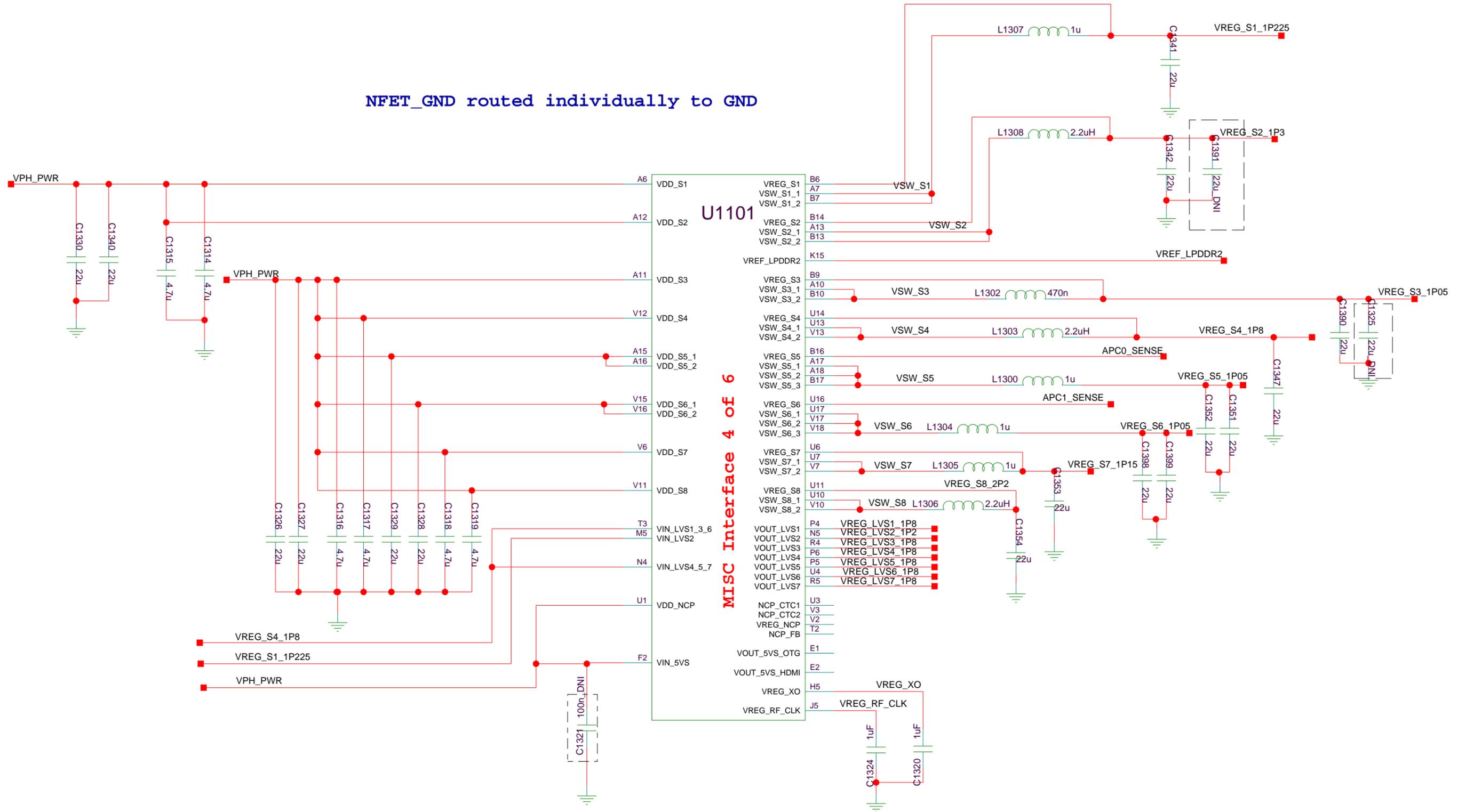


The type and specification of the components refer to the BOM

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REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 12 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

13. PM8921 VREG2

NFET_GND routed individually to GND

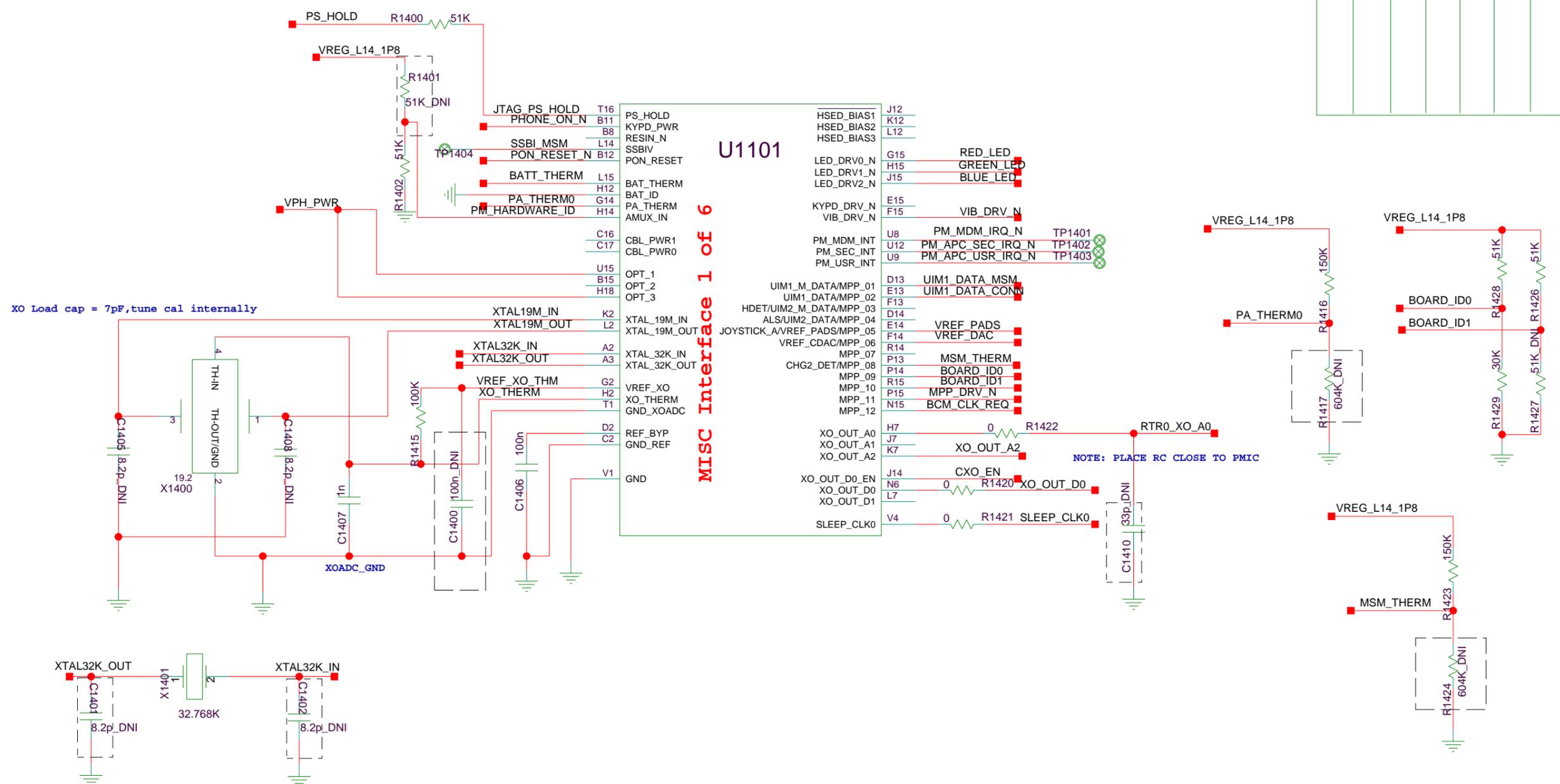


The type and specification of the components refer to the BOM

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 13 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

14. PM8921 MPP_AMUX_CLKS

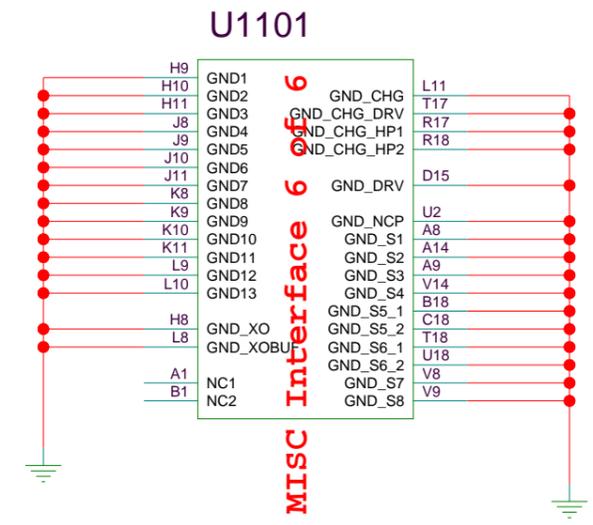
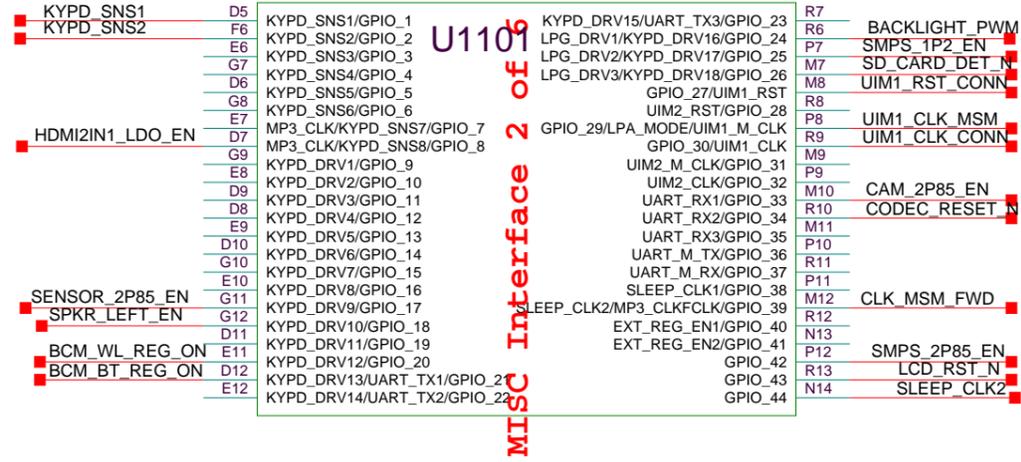
REV	ID1	ID0	R1426	R1427	R1428	R1429
T0	8	0	51K	DNI	DNI	51K
M2T						



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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET	14 OF 52
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

15. PM8921 GPIO & GND



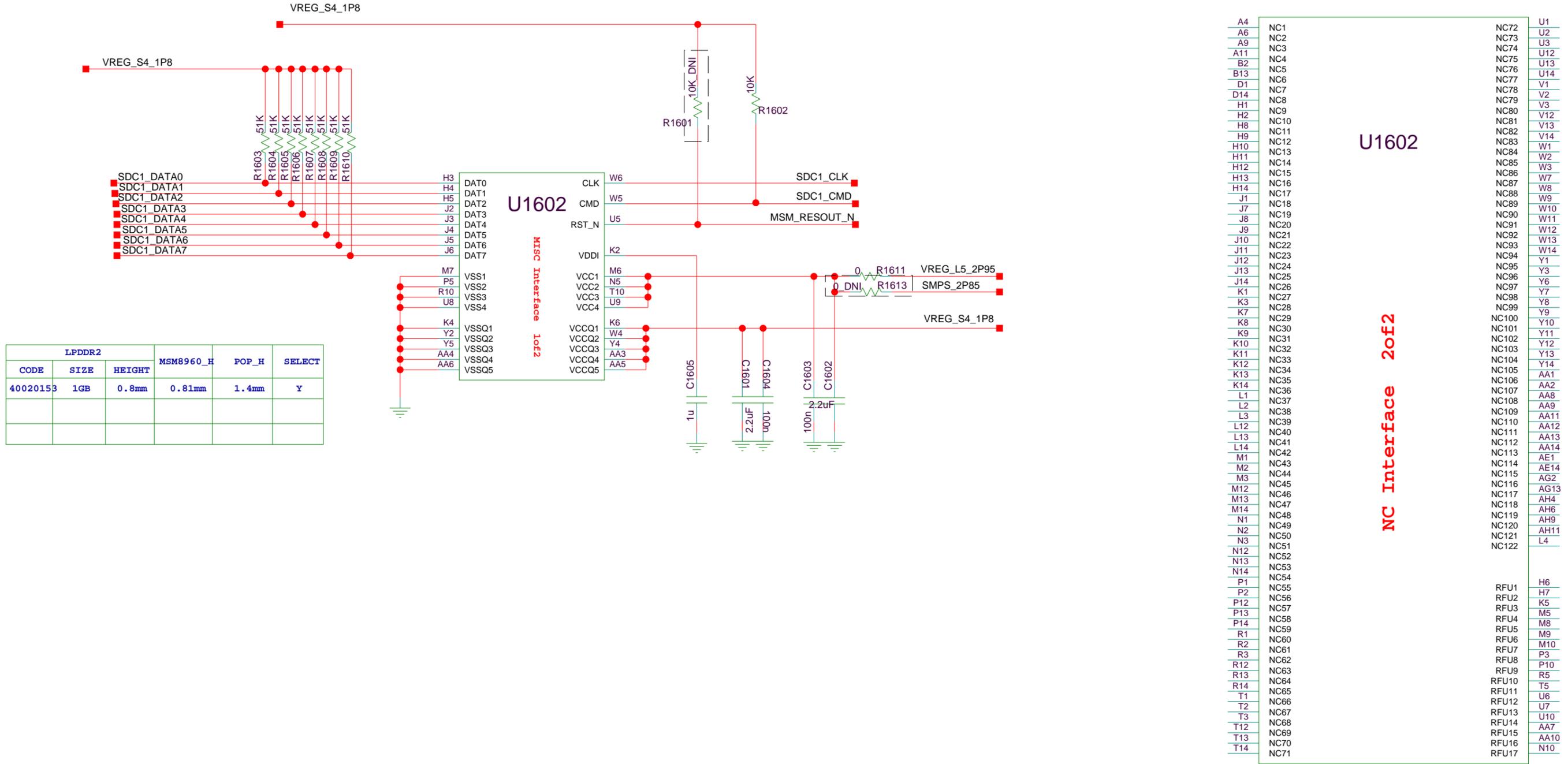
The type and specification of the components refer to the BOM

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 15 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

16. eMMC & LPDDR2

12*16

Need to Cover shield



A4	NC1	NC72	U1
A6	NC2	NC73	U2
A9	NC3	NC74	U3
A11	NC4	NC75	U12
B2	NC5	NC76	U13
B13	NC6	NC77	U14
D1	NC7	NC78	V1
D14	NC8	NC79	V2
H1	NC9	NC80	V3
H2	NC10	NC81	V12
H8	NC11	NC82	V13
H9	NC12	NC83	V14
H10	NC13	NC84	W1
H11	NC14	NC85	W2
H12	NC15	NC86	W3
H13	NC16	NC87	W7
H14	NC17	NC88	W8
J1	NC18	NC89	W9
J7	NC19	NC90	W10
J8	NC20	NC91	W11
J9	NC21	NC92	W12
J10	NC22	NC93	W13
J11	NC23	NC94	W14
J12	NC24	NC95	Y1
J13	NC25	NC96	Y3
J14	NC26	NC97	Y6
K1	NC27	NC98	Y7
K3	NC28	NC99	Y8
K7	NC29	NC100	Y9
K8	NC30	NC101	Y10
K9	NC31	NC102	Y11
K10	NC32	NC103	Y12
K11	NC33	NC104	Y13
K12	NC34	NC105	Y14
K13	NC35	NC106	AA1
K14	NC36	NC107	AA2
L1	NC37	NC108	AA8
L2	NC38	NC109	AA9
L3	NC39	NC110	AA11
L12	NC40	NC111	AA12
L13	NC41	NC112	AA13
L14	NC42	NC113	AA14
M1	NC43	NC114	AE1
M2	NC44	NC115	AE14
M3	NC45	NC116	AG2
M12	NC46	NC117	AG13
M13	NC47	NC118	AH4
M14	NC48	NC119	AH6
N1	NC49	NC120	AH9
N2	NC50	NC121	AH11
N3	NC51	NC122	L4
N12	NC52		
N13	NC53		
N14	NC54		
P1	NC55	RFU1	H6
P2	NC56	RFU2	H7
P12	NC57	RFU3	K5
P13	NC58	RFU4	M5
P14	NC59	RFU5	M8
R1	NC60	RFU6	M9
R2	NC61	RFU7	M10
R3	NC62	RFU8	P3
R12	NC63	RFU9	P10
R13	NC64	RFU10	R5
R14	NC65	RFU11	T5
T1	NC66	RFU12	U6
T2	NC67	RFU13	U7
T3	NC68	RFU14	U10
T12	NC69	RFU15	AA7
T13	NC70	RFU16	AA10
T14	NC71	RFU17	N10

NC Interface 2of2

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 16 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

17.codec WCD9310

A

B

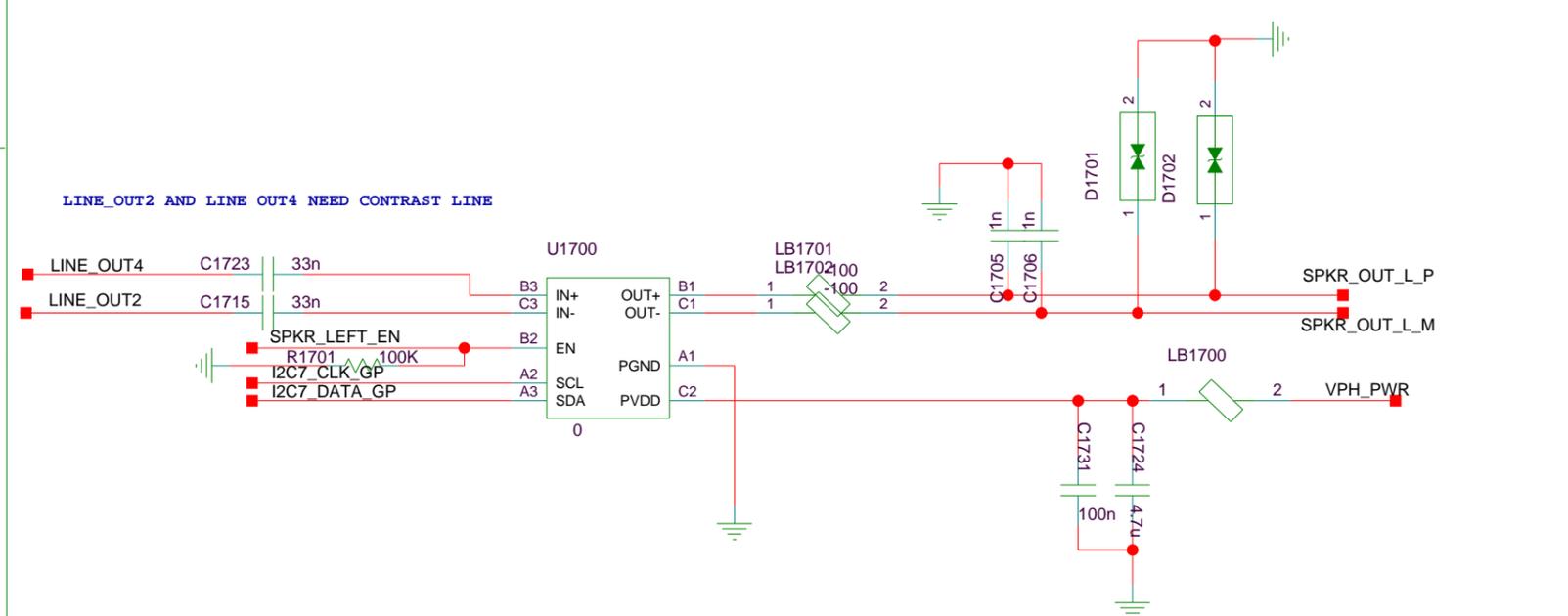
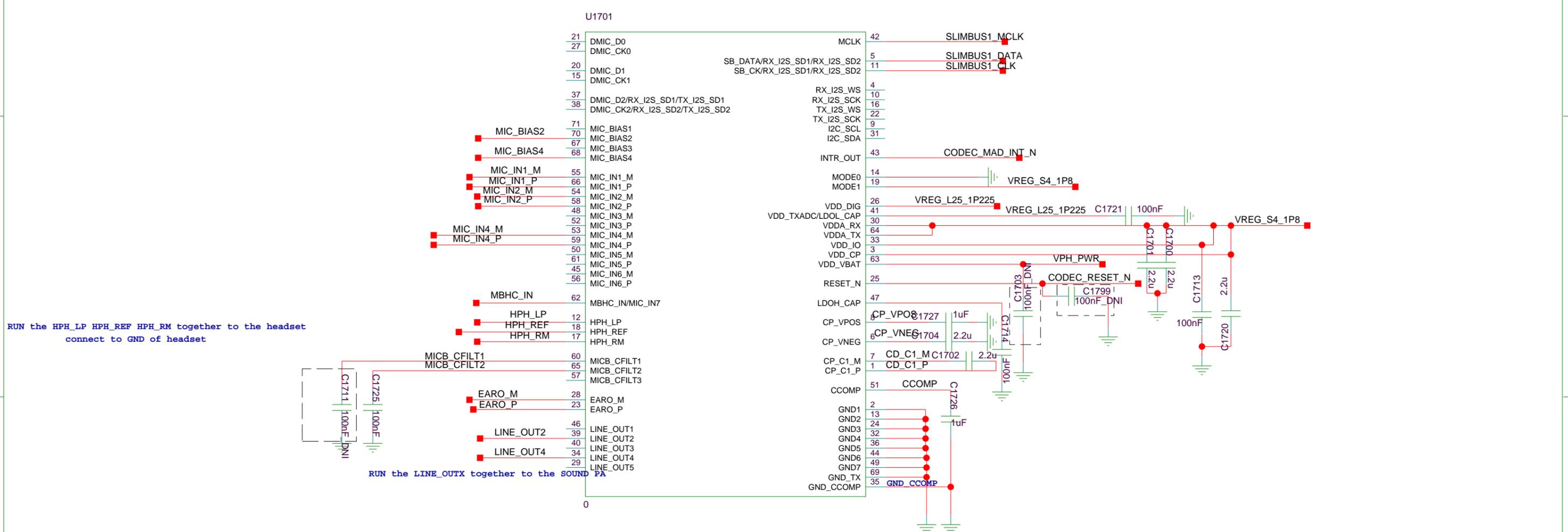
C

D

RUN the HPH_LP HPH_REF HPH_RM together to the headset connect to GND of headset

RUN the LINE_OUTX together to the SOUND PA

LINE_OUT2 AND LINE OUT4 NEED CONTRAST LINE

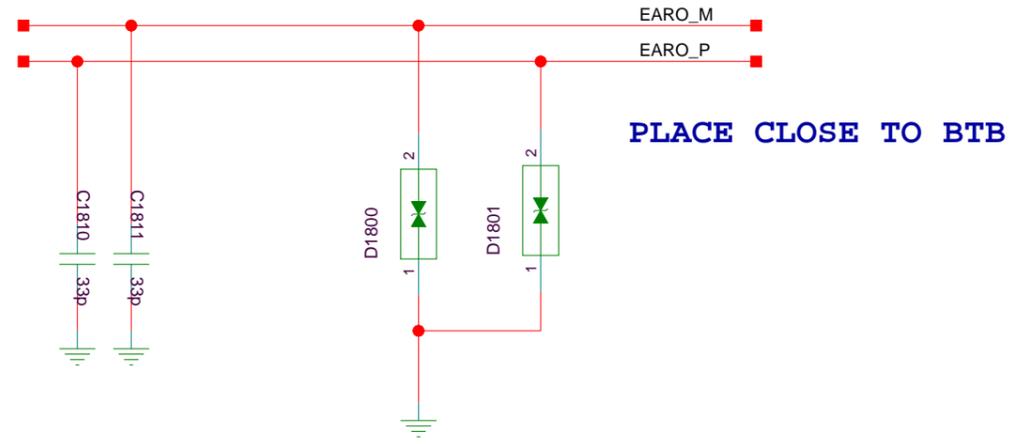


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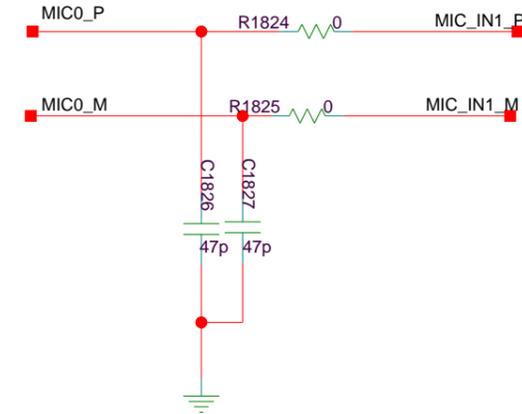
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REVIEWED	JISHIFU 56304		ECA NO	DATE
			03021RNJ_SCHZH	
			17	
		VER	PART_NUMBER	SHEET 17 OF 52
		B	03021RNJ	HUAWEI TECH CO.,LTD.

18.Audio Circuits

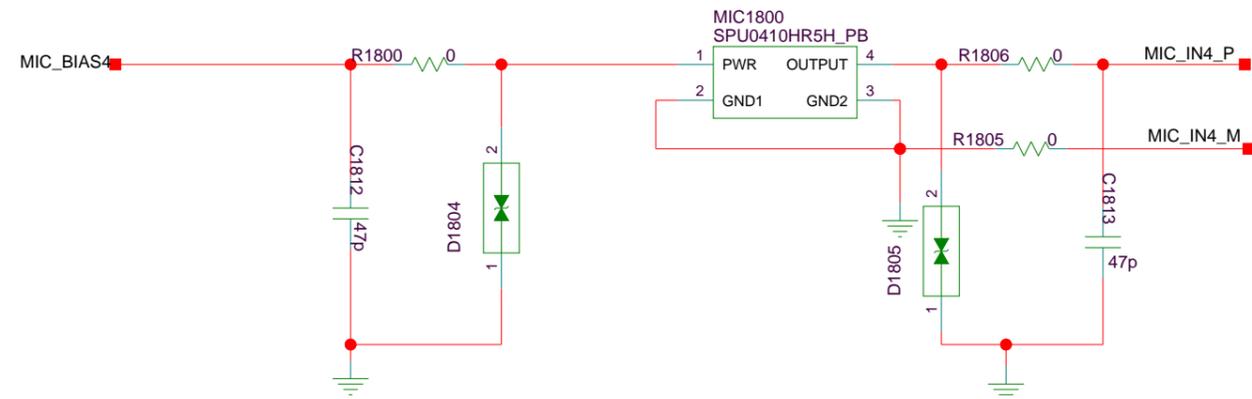
RECEIVER



Primarily Handset MEMS MICROPHONE



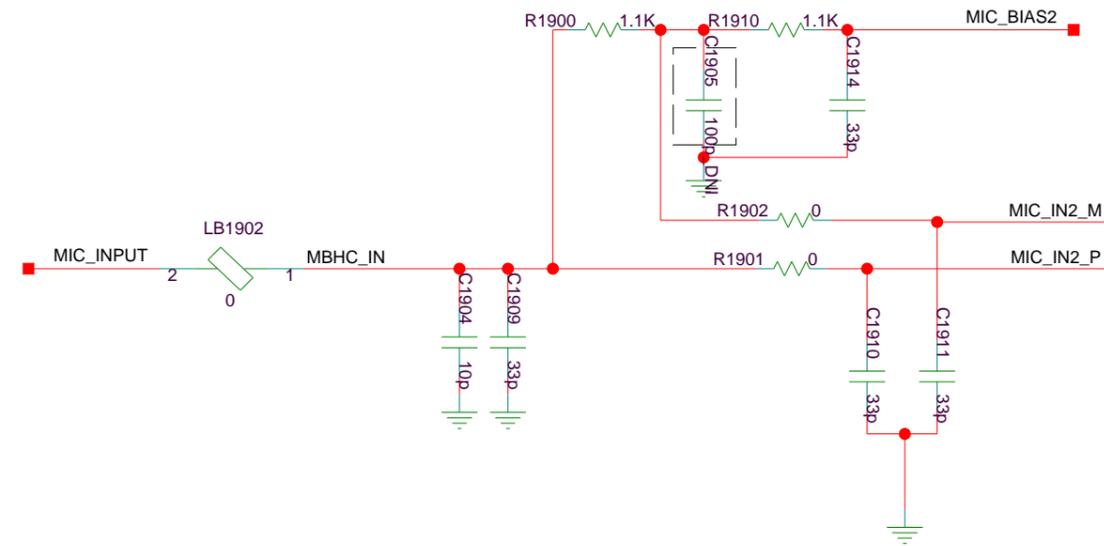
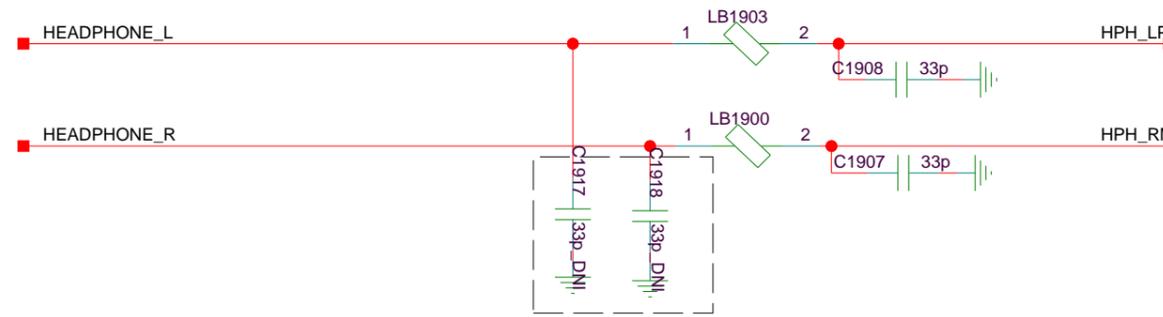
Second Handset MIC for noise suppression



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REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 18 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

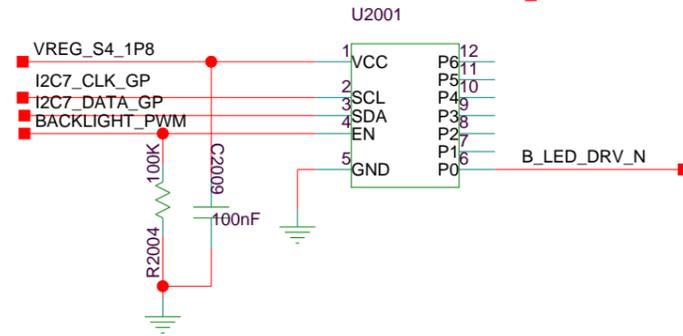
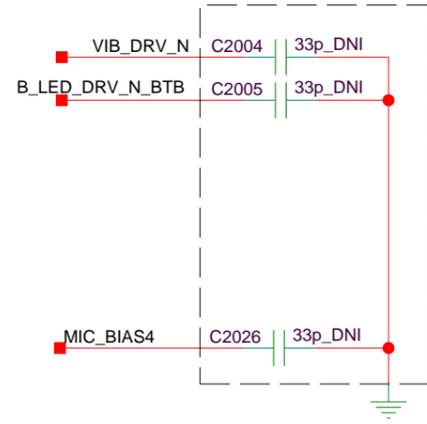
19.HEADPHONE



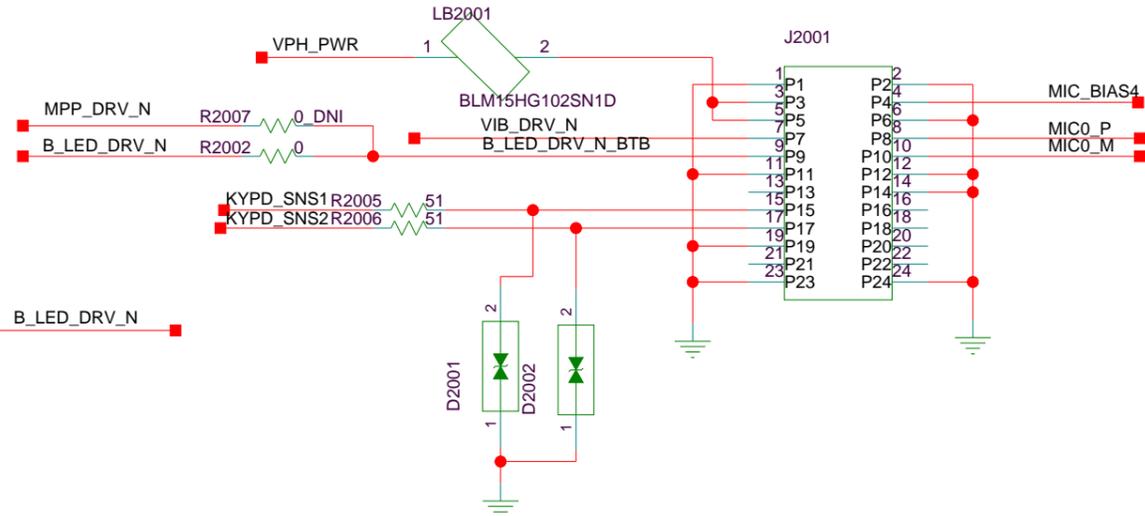
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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 19 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

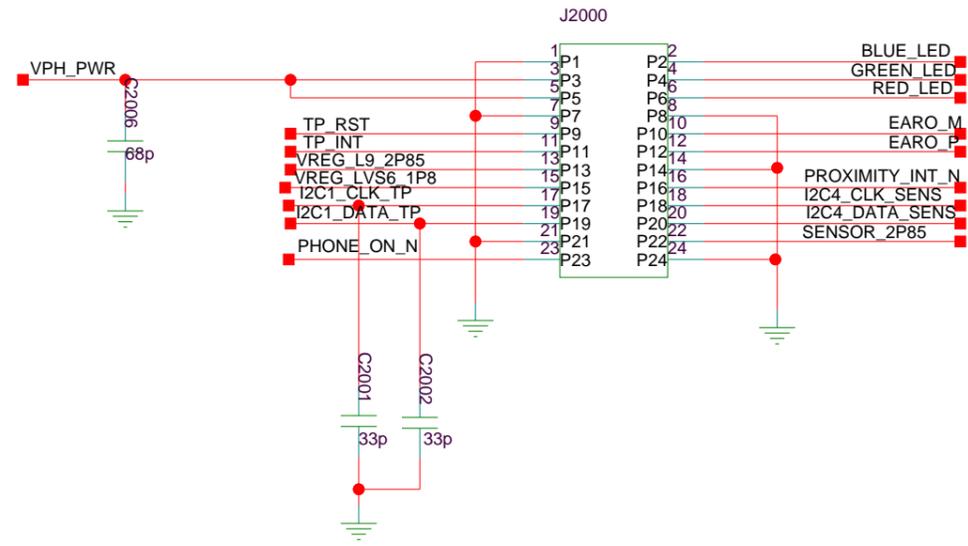
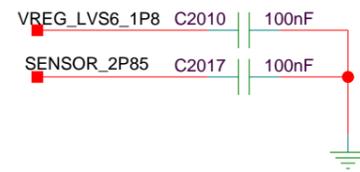
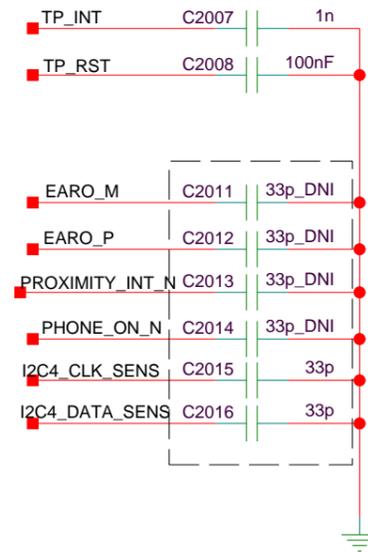
20.CONNECTOR for TP P/K



U9501LK 24 PIN BTB TO MIC/MOTOR/SIDE KEYPAD



U9501LP BTB TO POWER/RCV/ALS/TP/THREE-COLOR LIGHT

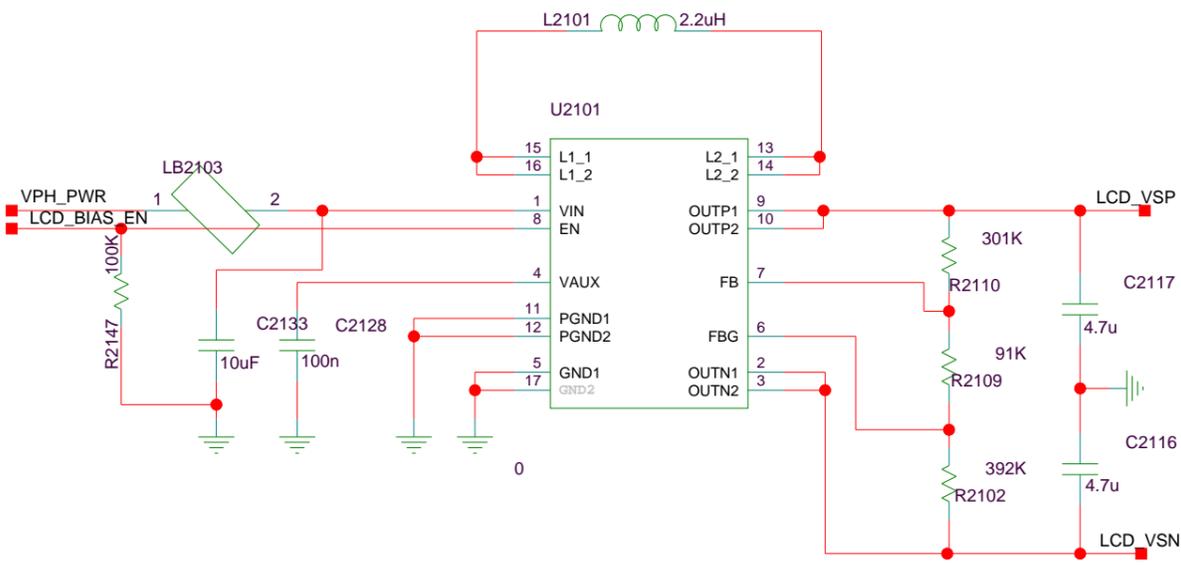


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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 20 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

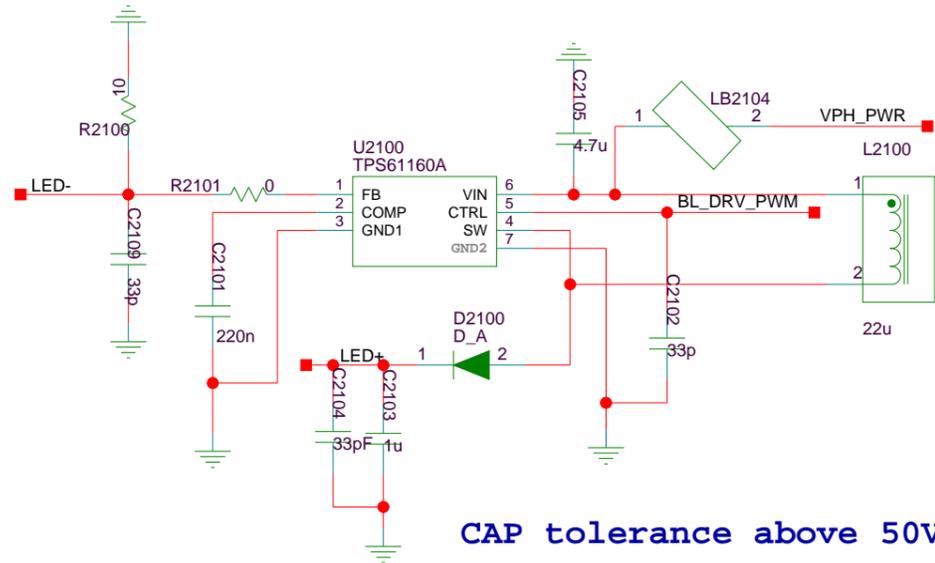
21. LCD interface

LCD POS/NEG Voltage Driver



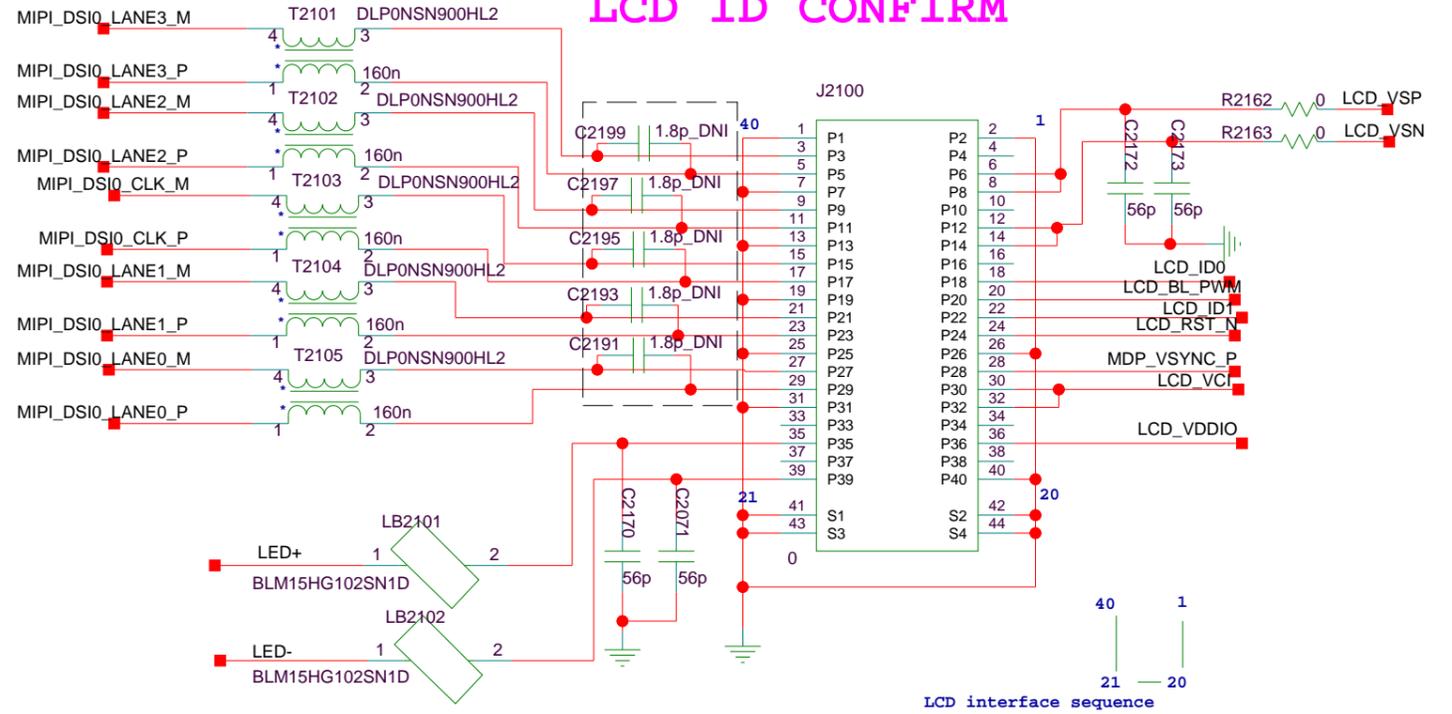
TYP: Vpos=5.39V Vneg=5.37V

LCD BL DRIVER

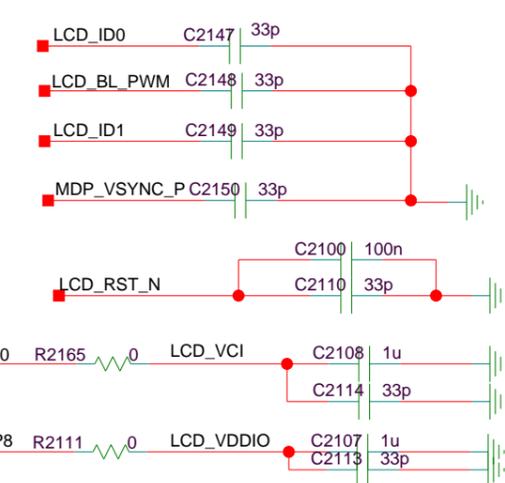


CAP tolerance above 50V!!!

4.5' LCD LCD ID CONFIRM



LCD interface sequence



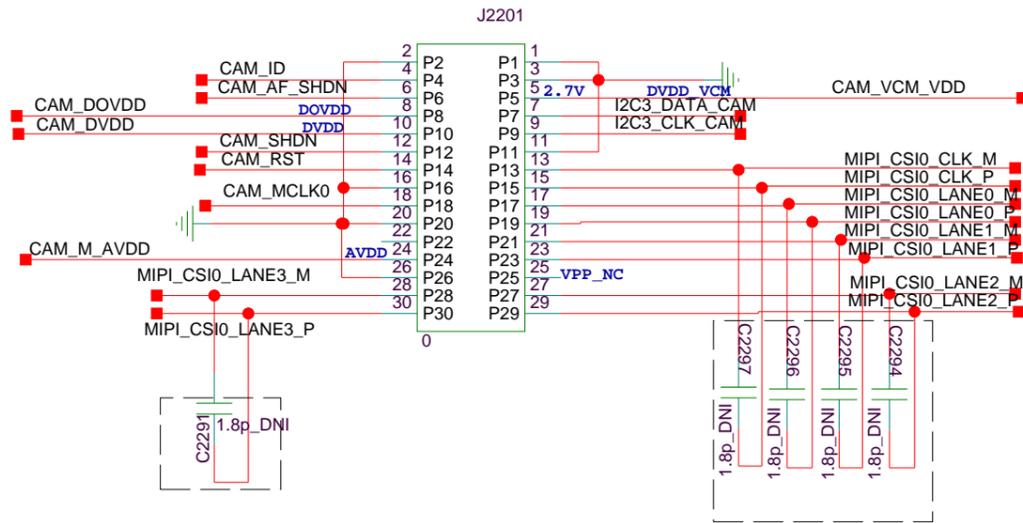
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REVIEWED	JISHIFU 56304	HL2U8960TMM	03021RNJ_SCHZH
VER	PART_NUMBER	SHEET	21 OF 52
B	03021RNJ	HUAWEI TECH CO.,LTD.	

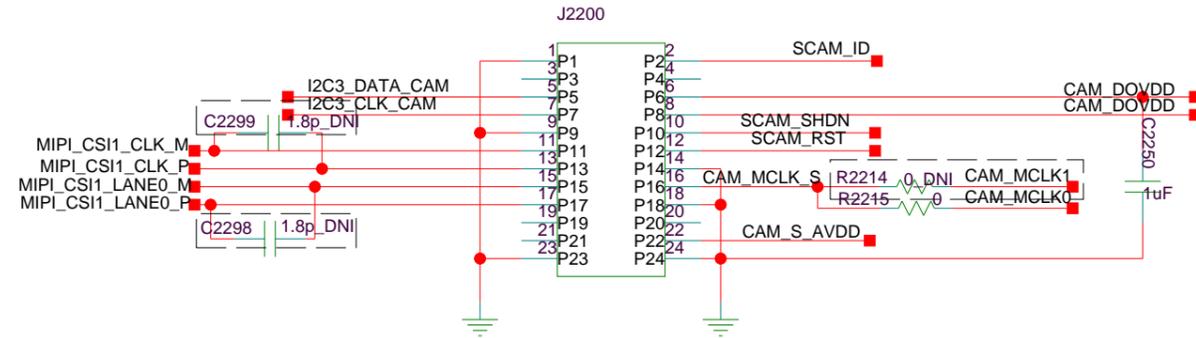
22. CAMERA

MAIN CAMERA 12M

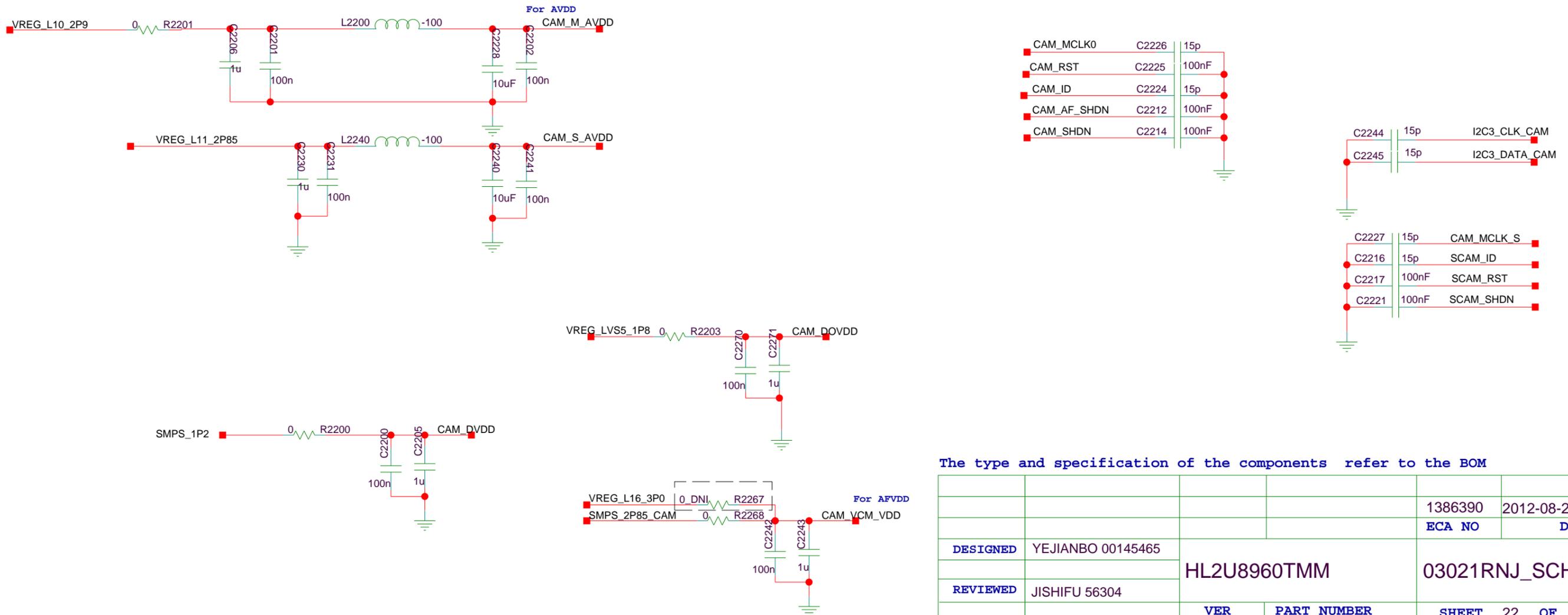
8M CAMERA use 14240181



Slave CAMERA 1.3M



POWER CLOSE TO MAIN CAMERA

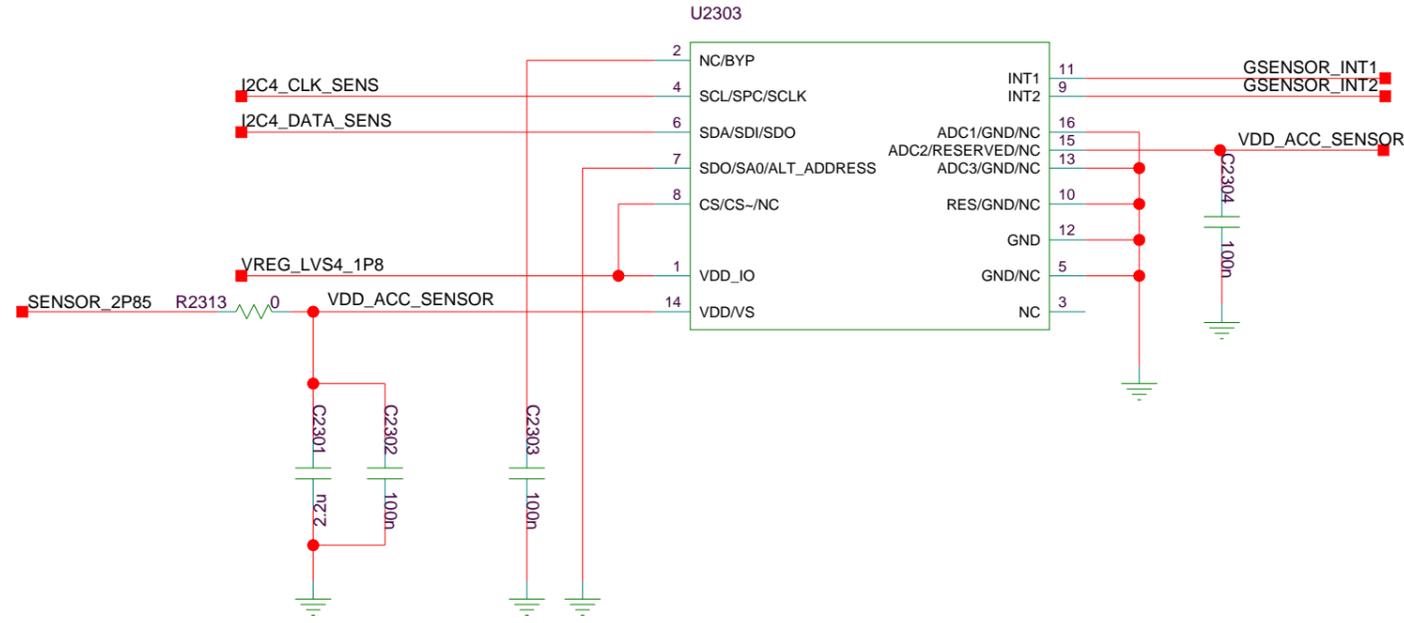


The type and specification of the components refer to the BOM

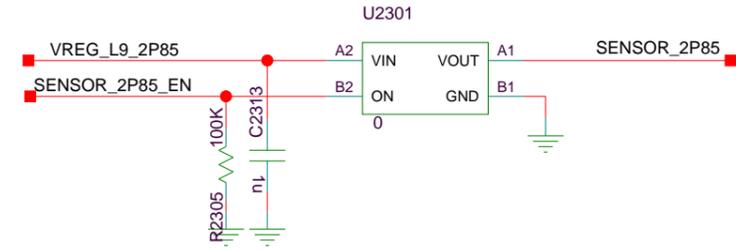
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				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 22 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

23. SENSOR

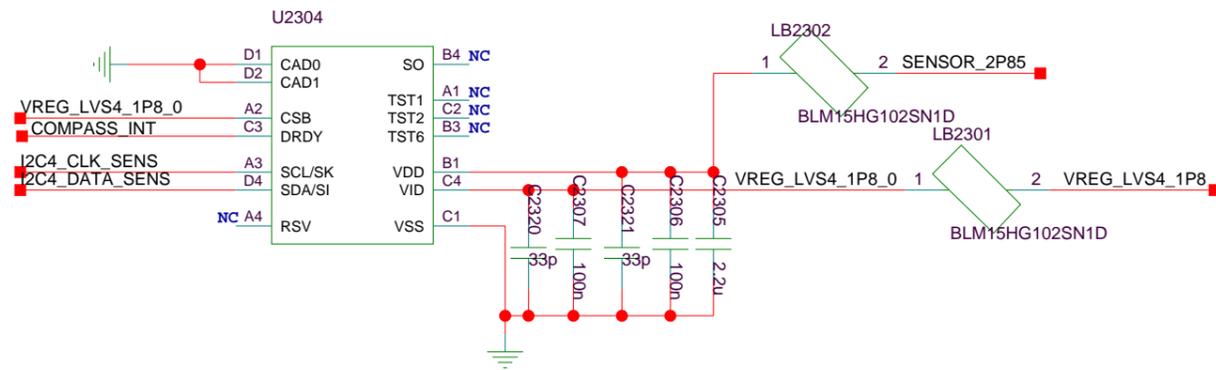
Accelerometer



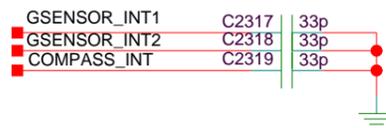
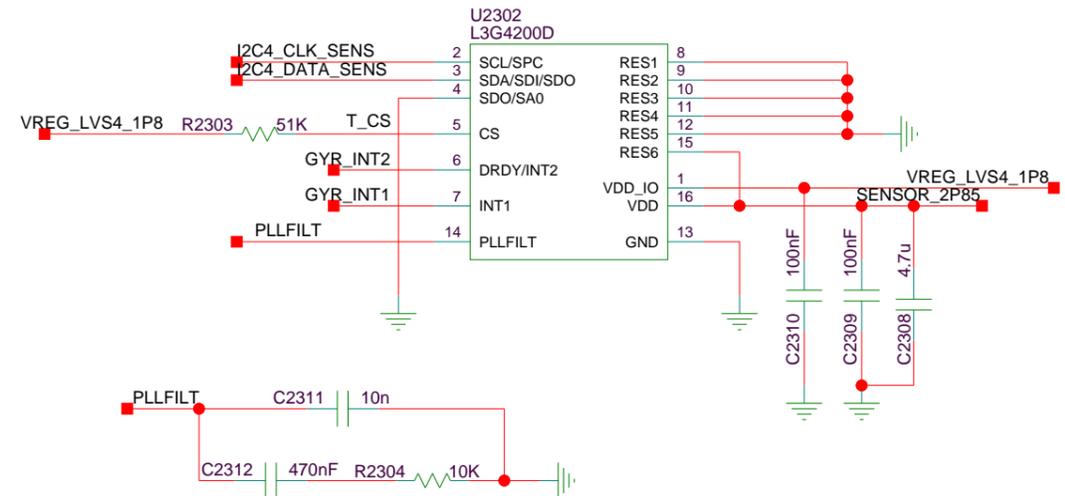
POWER



Compass



Gyro

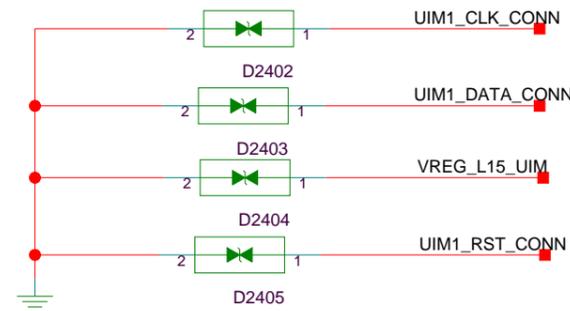


The type and specification of the components refer to the BOM

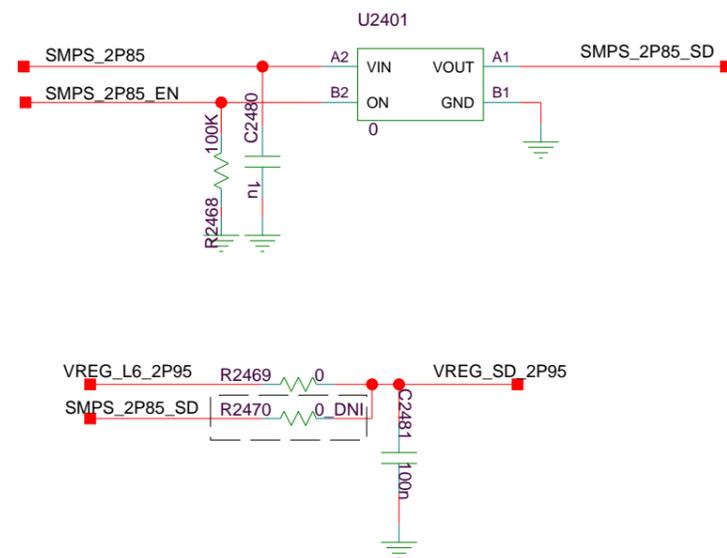
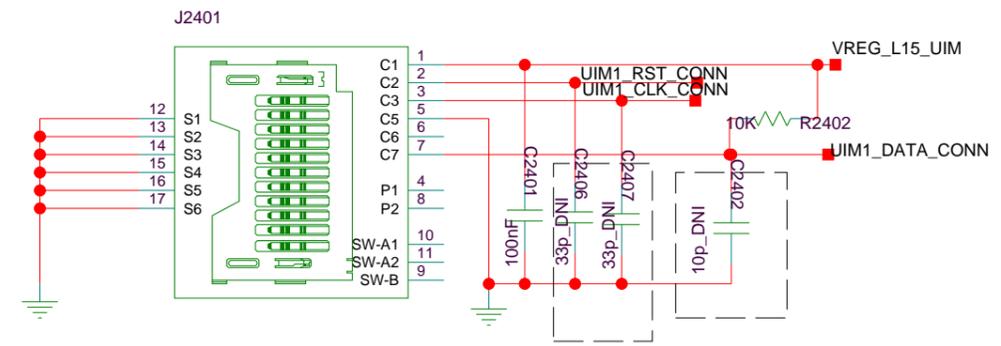
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REVIEWED	JISHIFU 56304				
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		B	03021RNJ	HUAWAI TECH CO.,LTD.	

24. SIM & TF CARD & CPRM

SIM Card ESD Protect

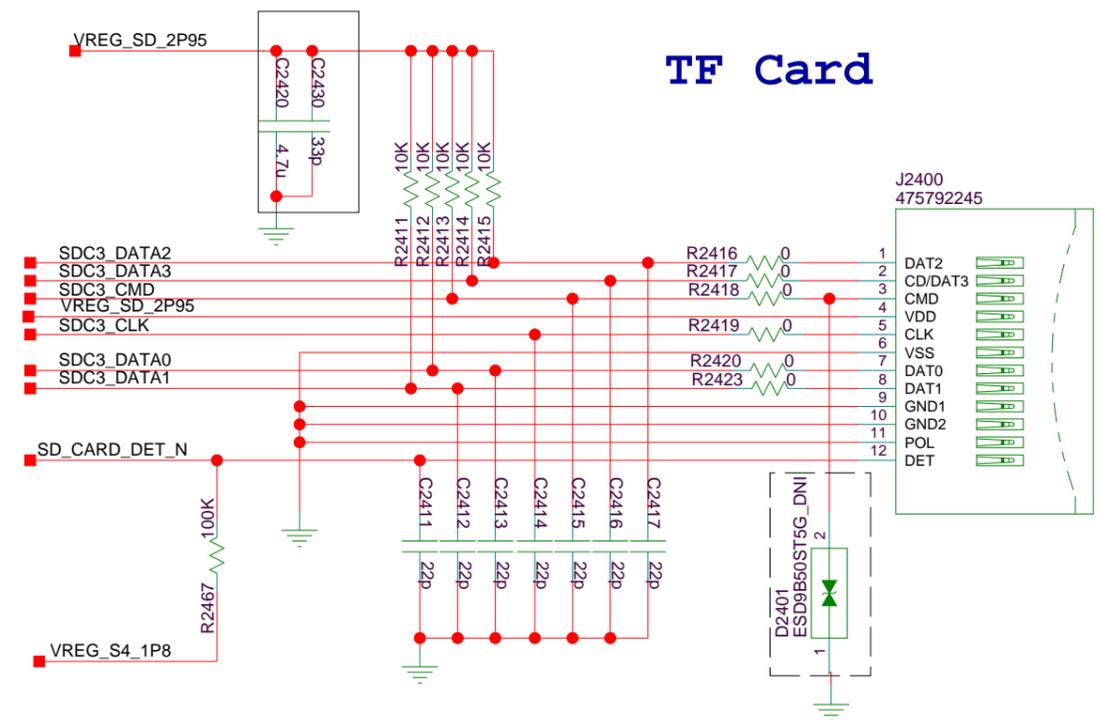


SIM Card



CAD NOTE: PLACE CLOSE TO J2400

TF Card

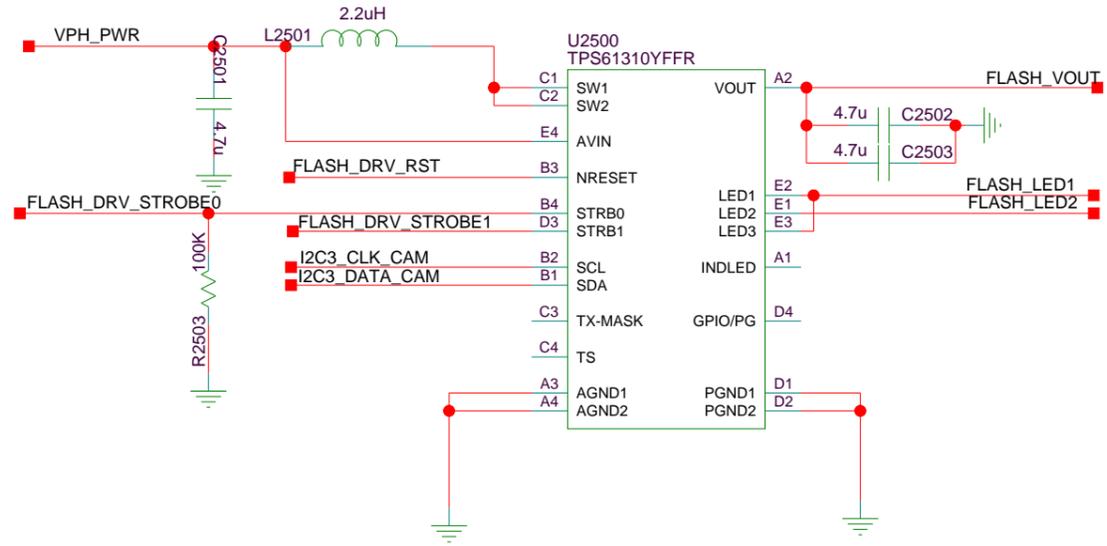


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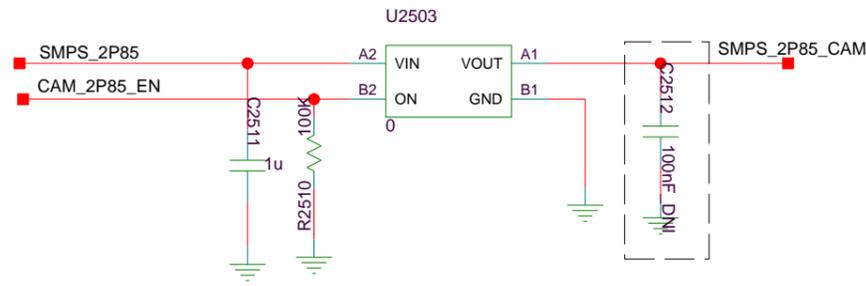
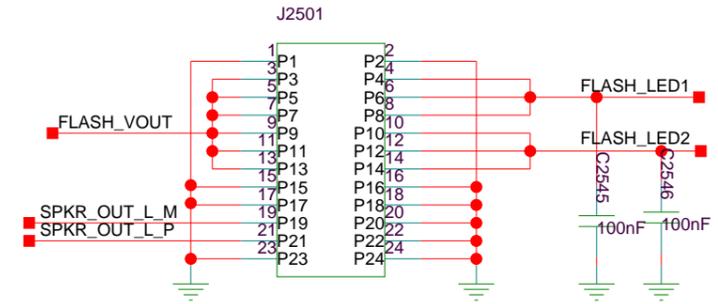
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REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 24 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

25. Flash Driver & BOOST

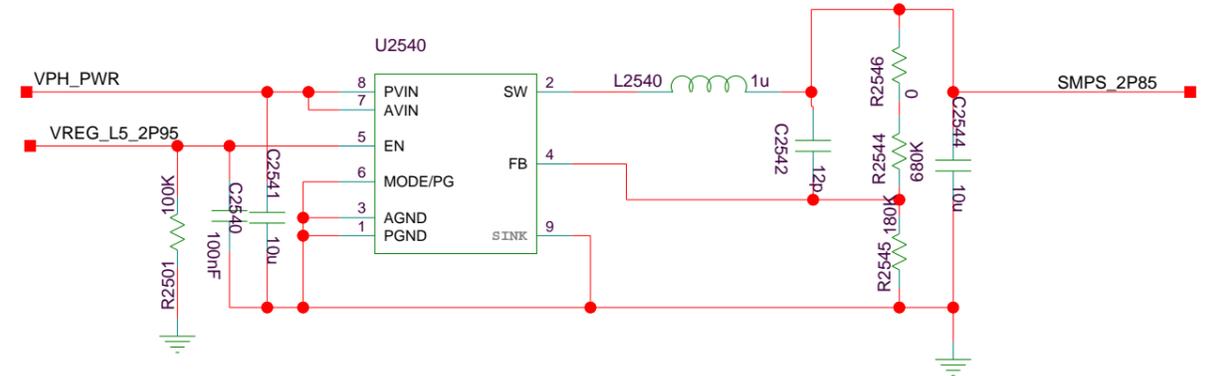
FLASH LED DRIVER



U9501LL FLASH/SPK FPC



2.85V DCDC



The type and specification of the components refer to the BOM

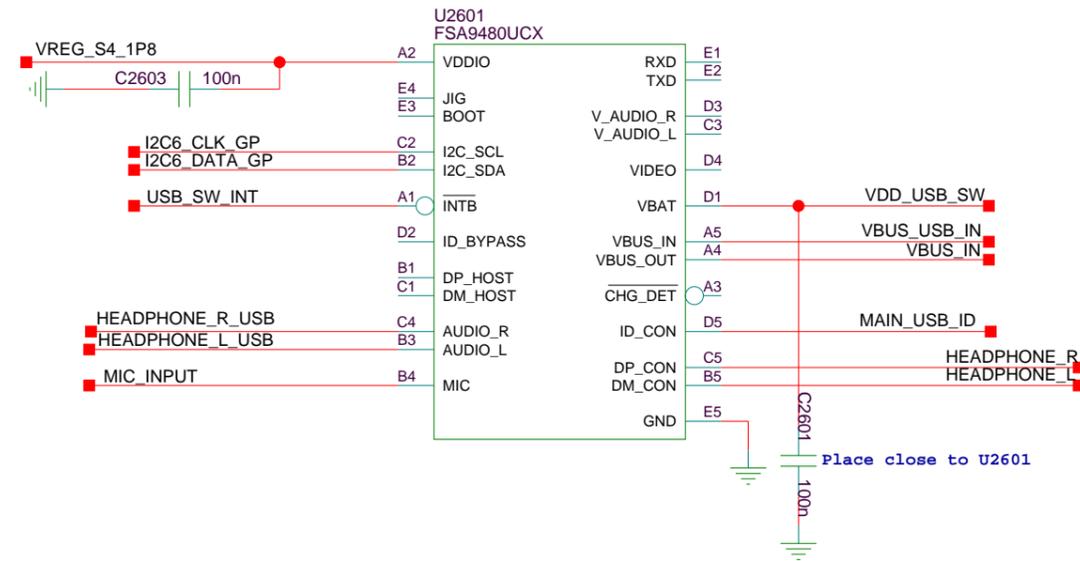
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REVIEWED	JISHIFU 56304				
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		B	03021RNJ	HUAWAI TECH CO.,LTD.	

26.USB INTERFACE SWITCH

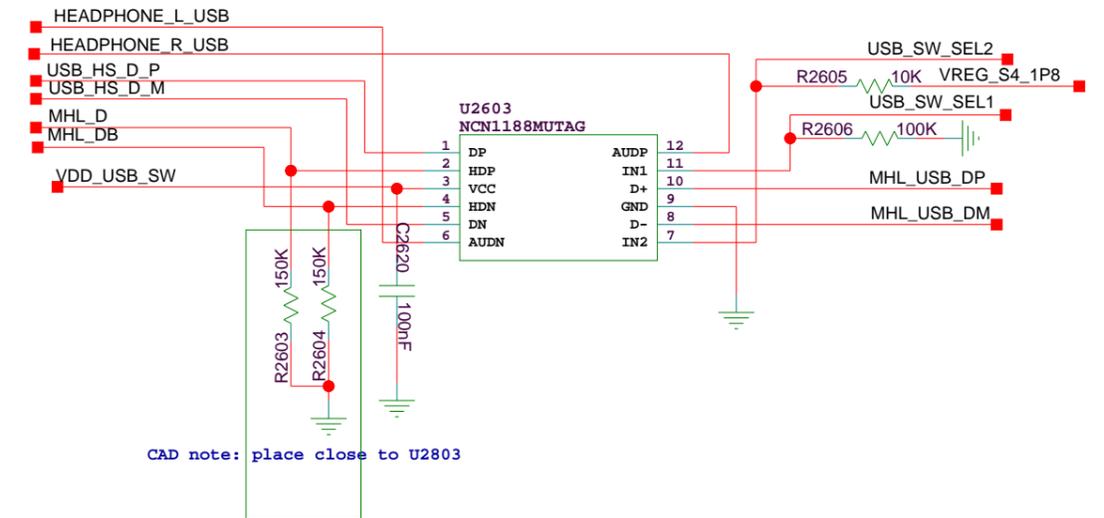
SWITCH TABLE

USB_SW_SEL1	USB_SW_SEL2	U2603 STATUS
0	1	USB
1	1	MHL
1	0	AUDIO
0	0	

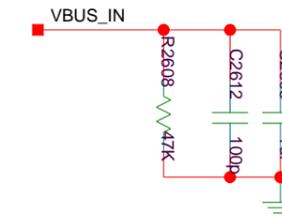
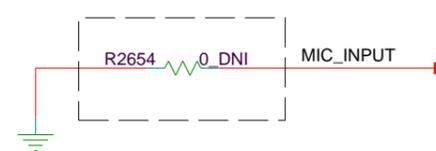
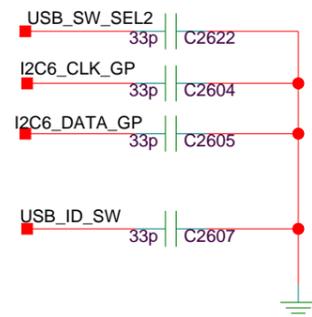
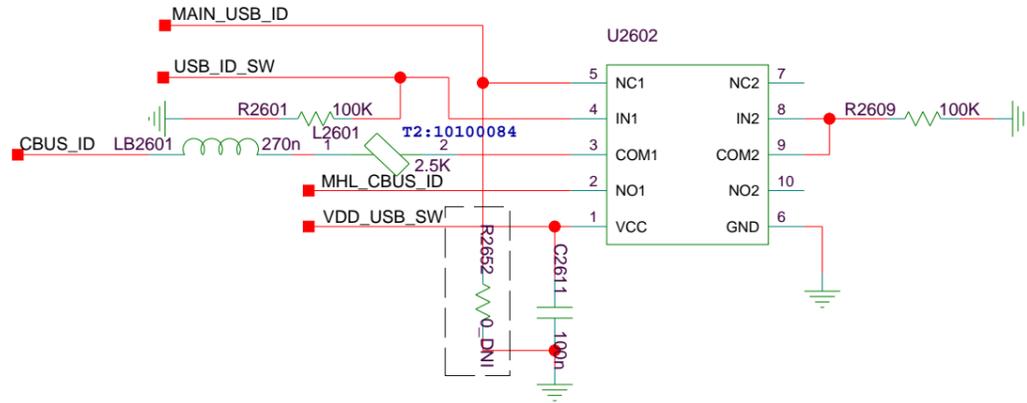
CHARGER/AUDIO/MIC SWITCH & ID IDENTIFY



MHL/USB/AUDIO USB SWITCH



ID/MIC SWITCH

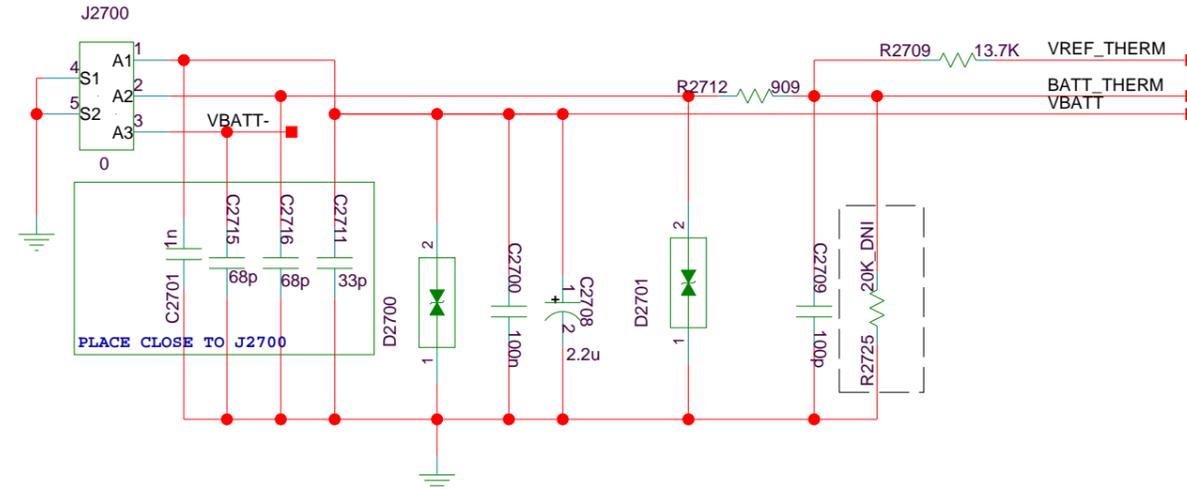


The type and specification of the components refer to the BOM

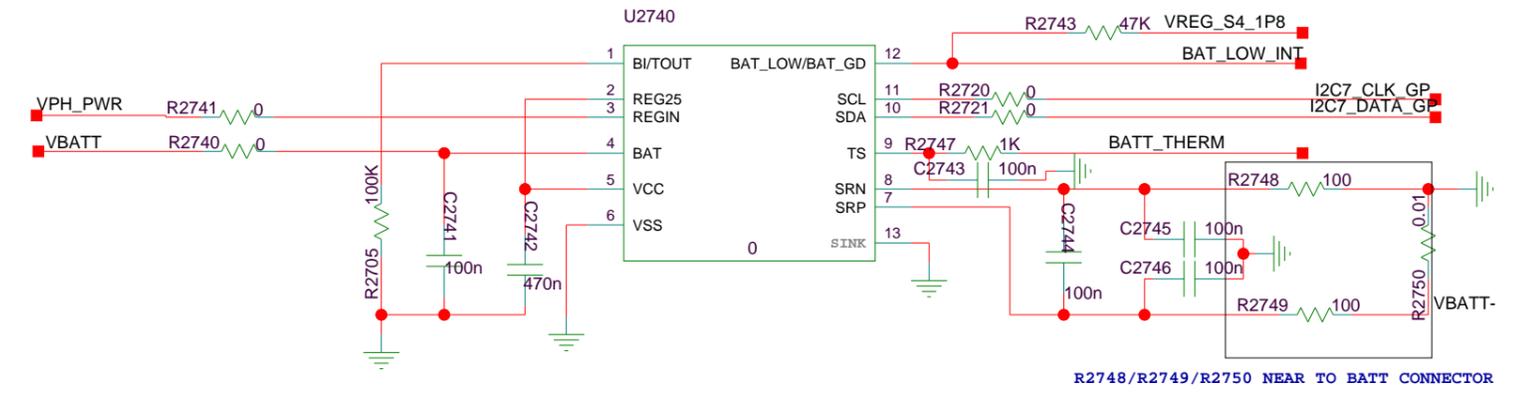
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REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 26 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

27. Battery Connector & Micro USB

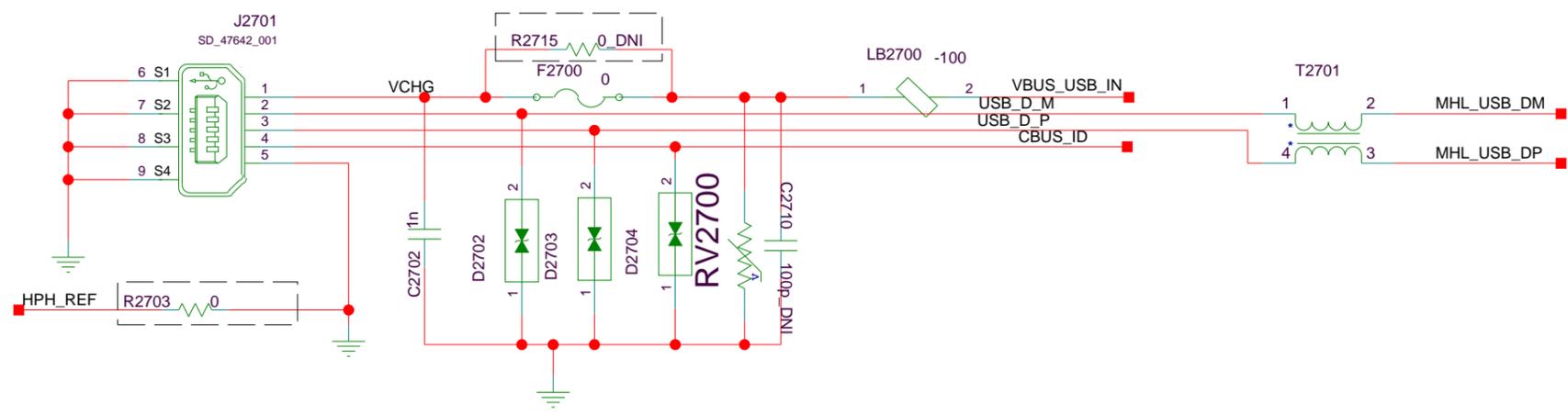
BATTERY MANAGEMENT



Micro USB Connector 1



R2748/R2749/R2750 NEAR TO BATT CONNECTOR

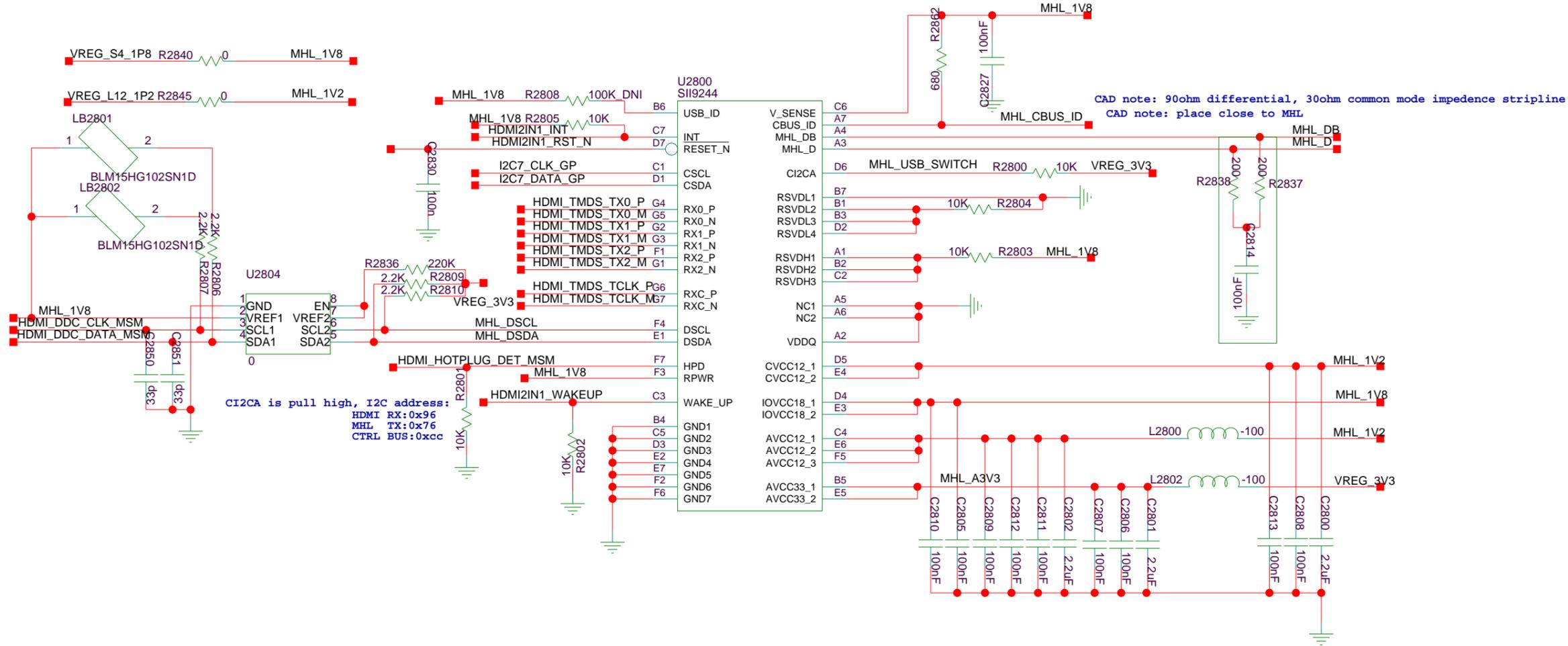


The type and specification of the components refer to the BOM

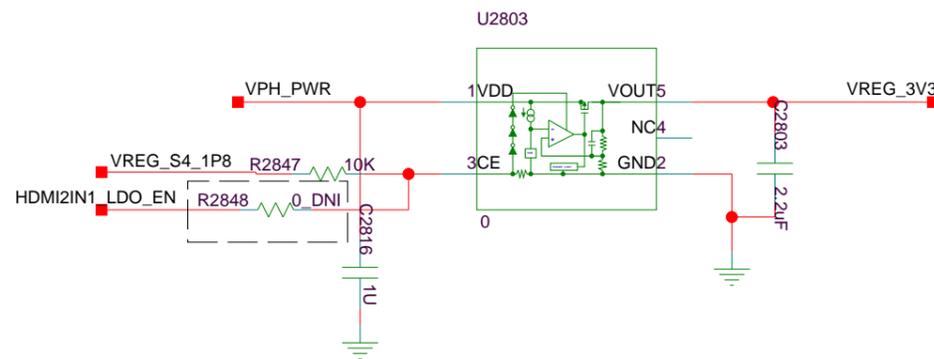
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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 27 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

28. MHL

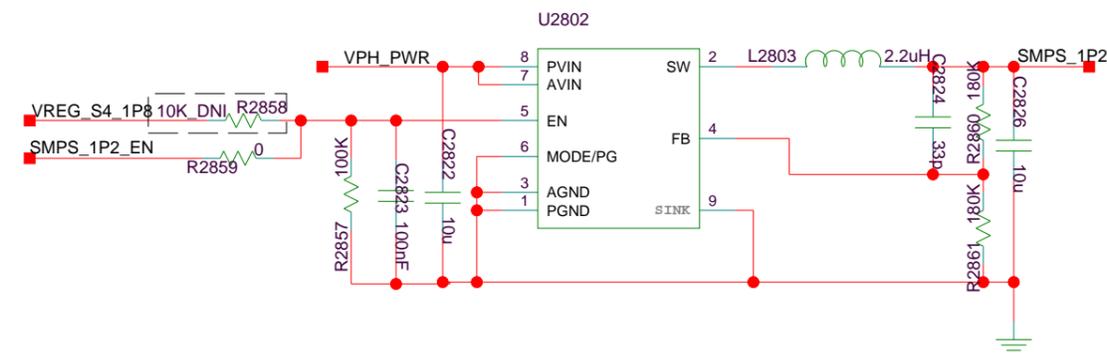
Micro USB Connector 2 for MHL



3.3V LDO



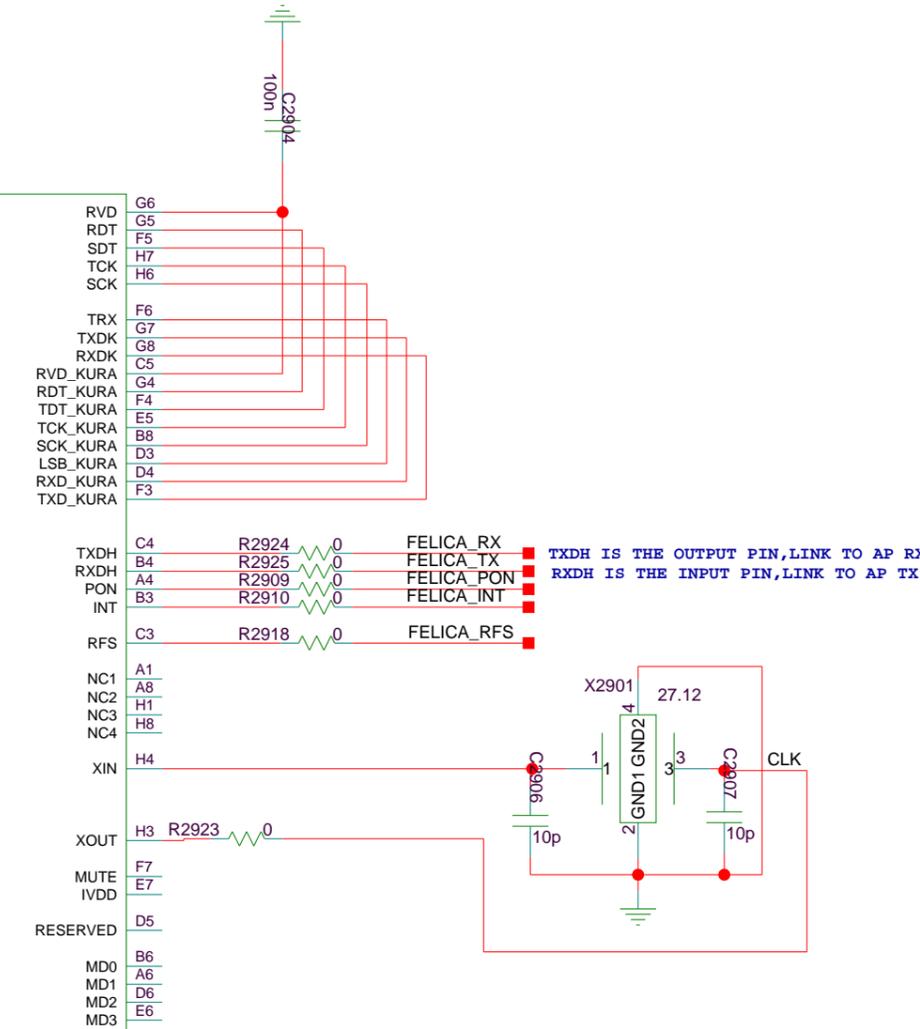
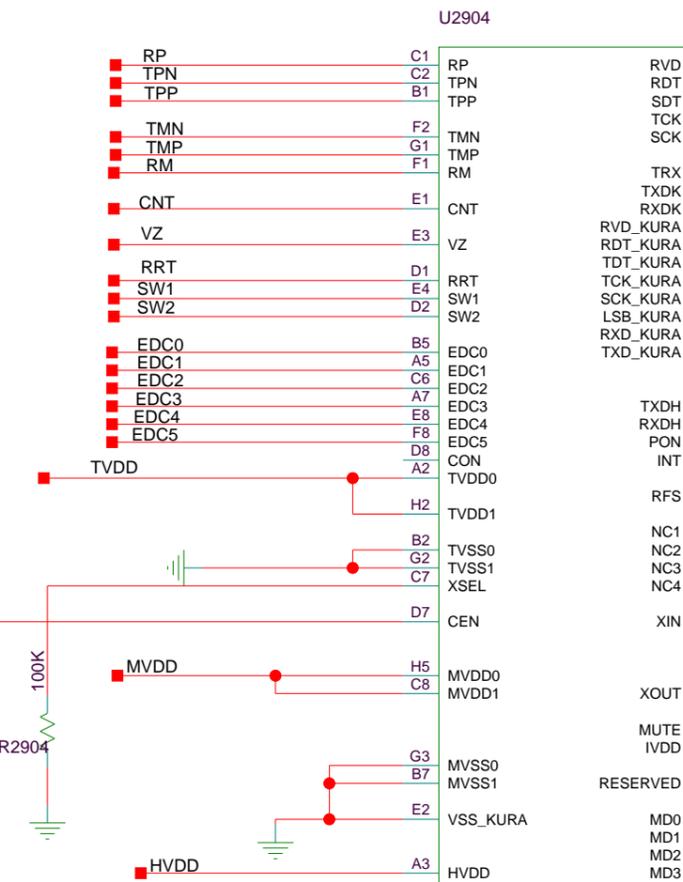
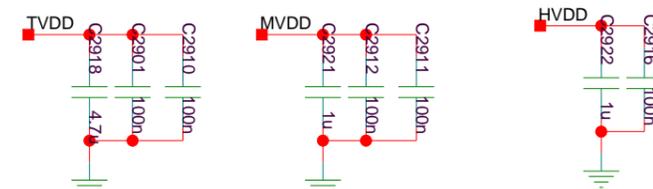
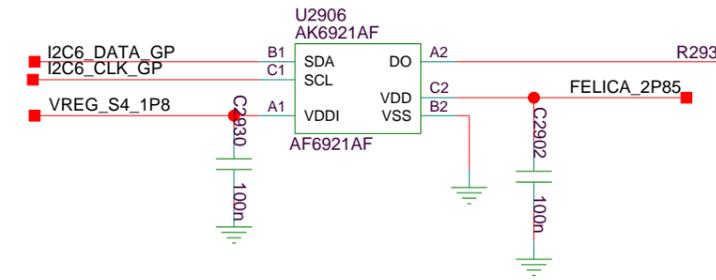
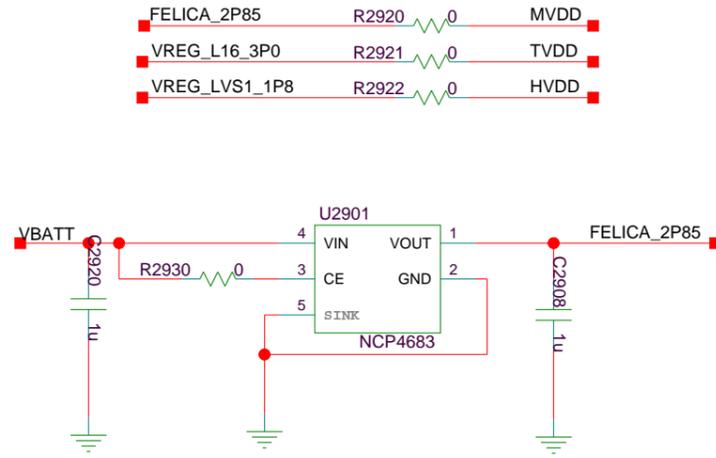
1.2V DCDC for CAMERA



The type and specification of the components refer to the BOM

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 28 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

29.Felica BB



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YEJIANBO 00145465				
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 29 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

30.RF/BB

BB RF



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 30 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

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The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED		HL2U8960TMM		03021RNJ_SCHZH	
	YEJIANBO 00145465				
REVIEWED	JISHIFU 56304				
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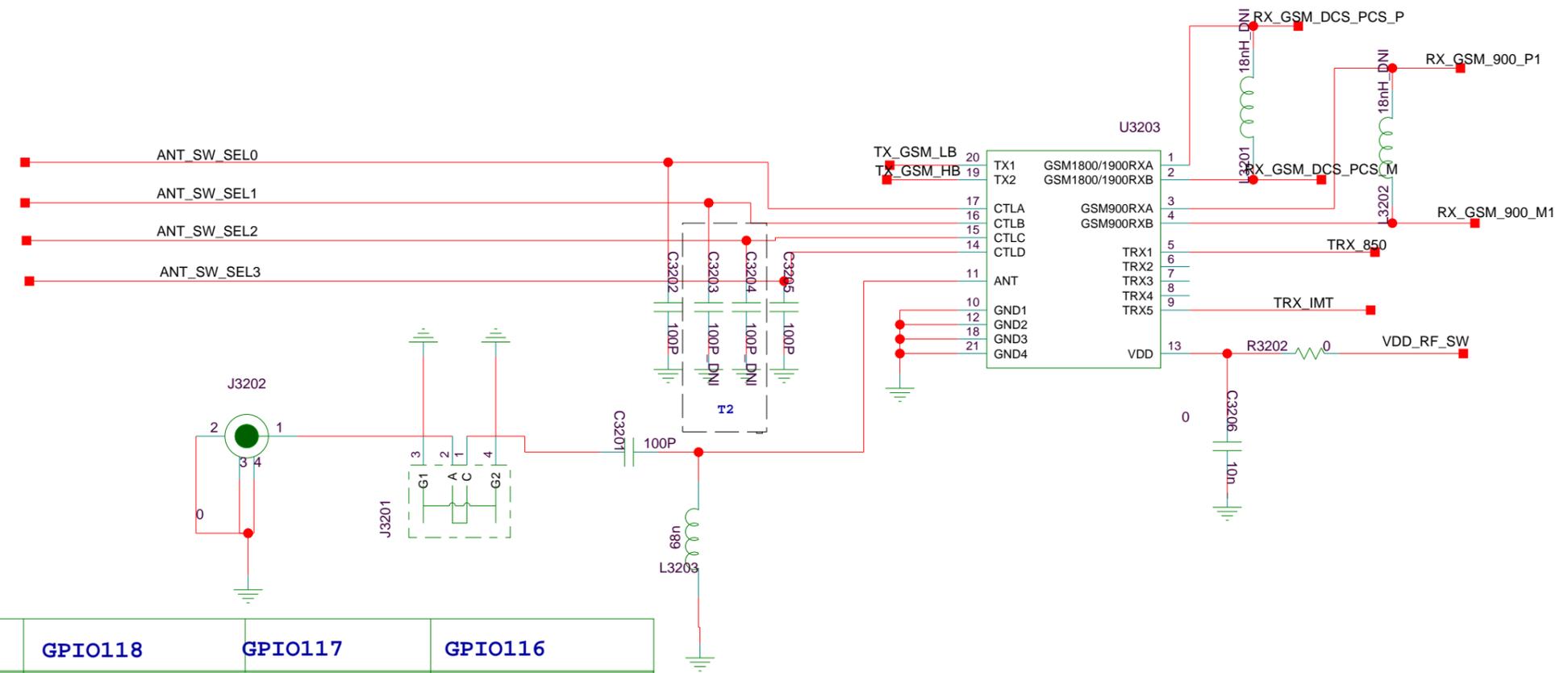
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32.PRIMARY ATTENA SWTICH



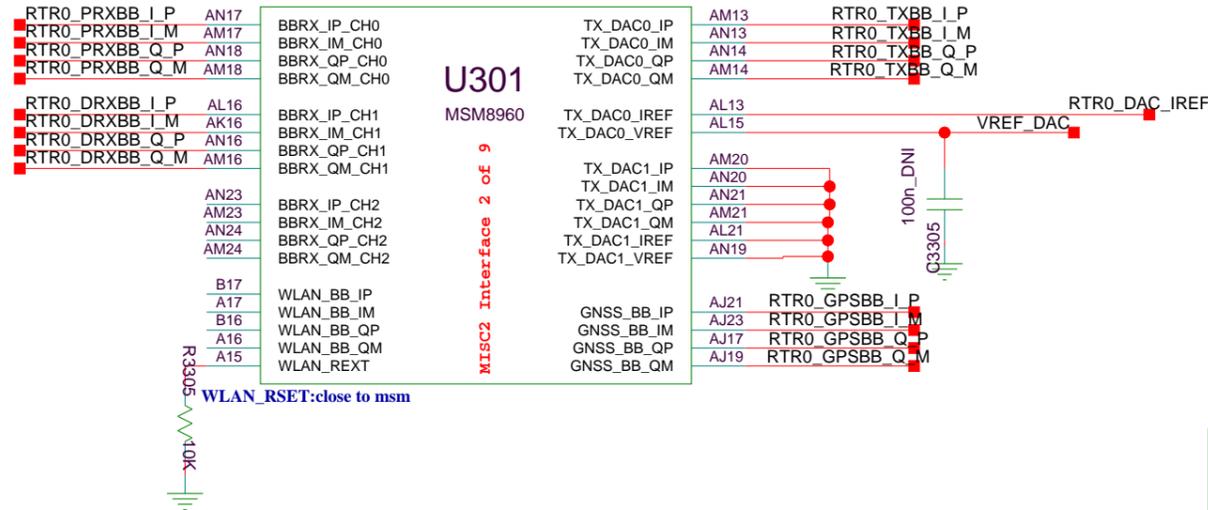
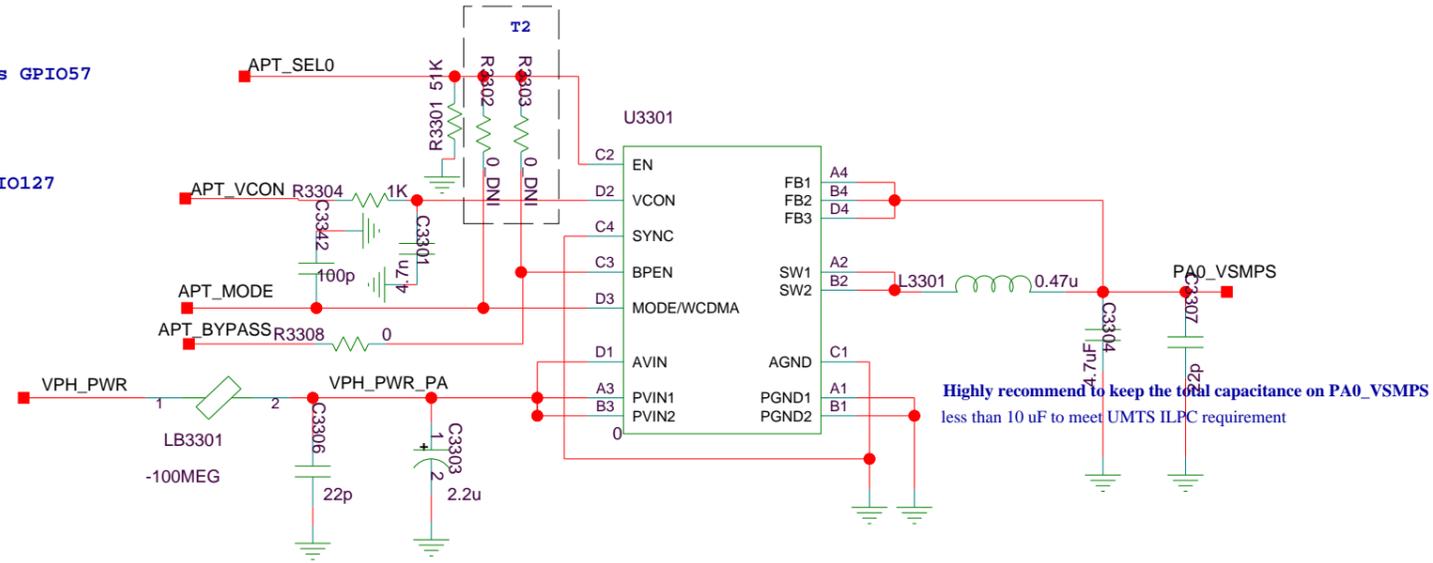
SWITCHPATH	Mode	GPIO119	GPIO118	GPIO117	GPIO116
TX1	GSM_LB_TX	H	H	H	H
TX2	GSM_HB_TX	H	L	H	H
TRX1	GSM_850_RX	L	H	L	L
GSMRXA/B	GSM_900_RX	H	L	L	L
GSM1800/1900RXA/B	GSM_DCS_RX	L	L	H	L
RX3	GSM_PCS_RX	L	H	H	L
TRX3	TRX_IMT/LTE	H	H	H	L
TRX1	TRX_B6/19	L	H	L	L
TRX5	TRX_B9	H	L	L	H

The type and specification of the components refer to the BOM

DESIGNED	YEJIANBO 00145465	HL2U8960TMM		1386390	2012-08-24
REVIEWED	JISHIFU 56304	03021RNJ		ECA NO	DATE
		VER	PART_NUMBER	SHEET 32 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

33.PA_PMU

APT_SEL0 is GPIO57
 APT_VCON is GPIO127
 APT_MODE is GPIO138
 APT_BYPASS is GPIO150

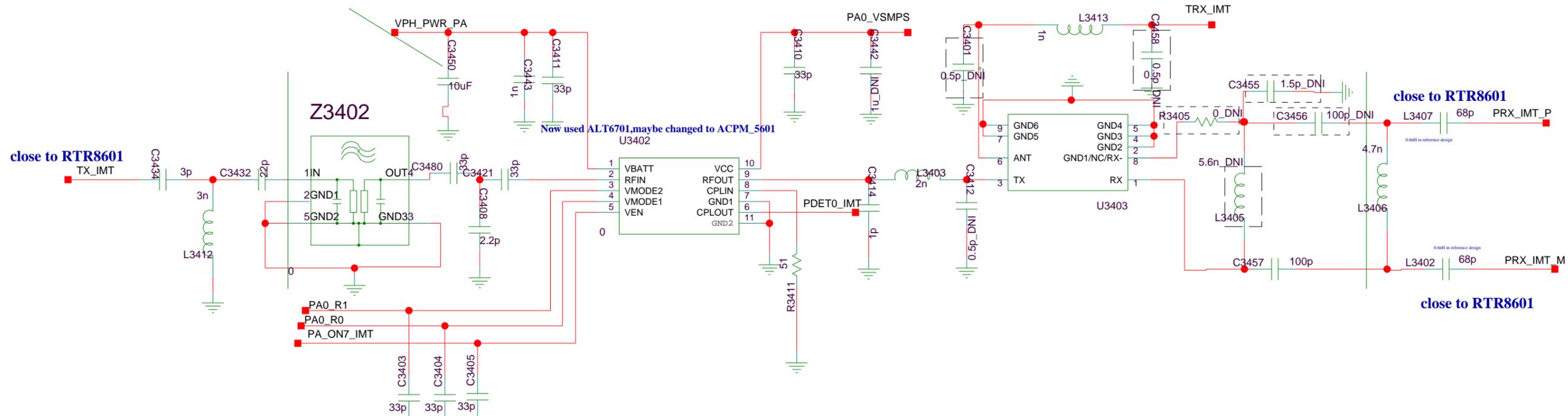


The type and specification of the components refer to the BOM

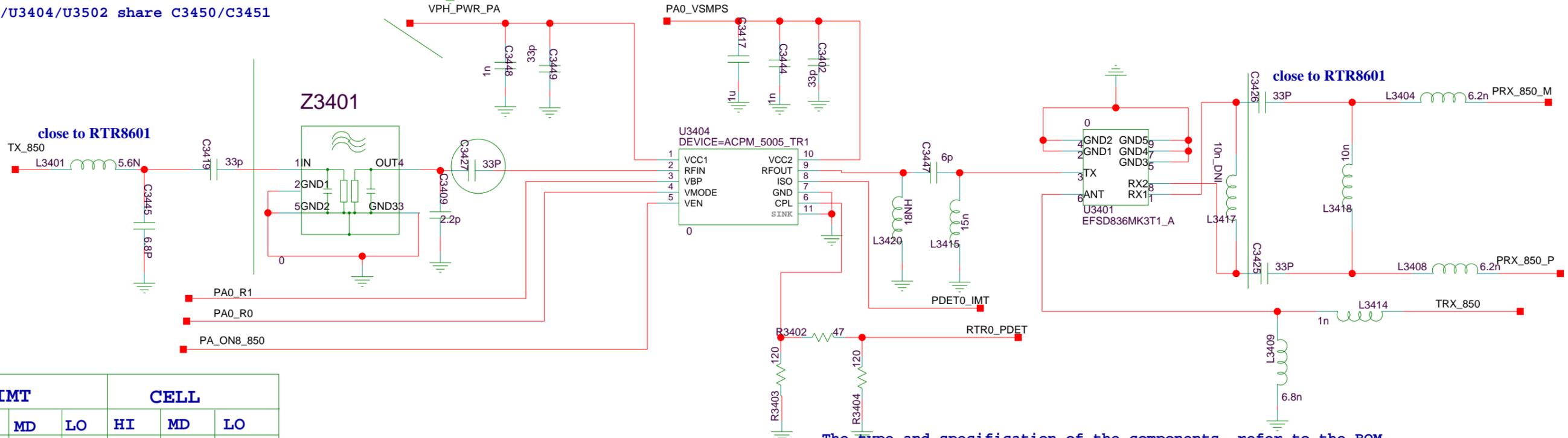
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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 33 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

34.B1 and B6&B19 PA and Duplexer

U3402/U3404/U3502 share C3450/C3451



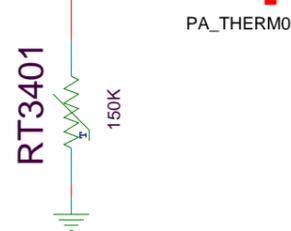
U3402/U3404/U3502 share C3450/C3451



	IMT			CELL		
MODE	HI	MD	LO	HI	MD	LO
R0	L	H	H	L	H	H
R1	L	L	H	L	L	H

PA_ON7_IMT IS GPIO 129

PA_ON8_850 IS GPIO 128



The type and specification of the components refer to the BOM

DESIGNED	YEJIANBO 00145465	HL2U8960TMM	1386390	2012-08-24
REVIEWED	JISHIFU 56304		ECA NO	DATE
			03021RNJ_SCHZH	
		VER	PART_NUMBER	SHEET 34 OF 52
		B	03021RNJ	HUAWEI TECH CO.,LTD.

35.B9 TX & DUPLEXER

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The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 35 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

36.B21 TX & DUPLEXER

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The type and specification of the components refer to the BOM

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				ECA NO	DATE
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REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 36 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

37.B5 TX & DUPLEXER

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The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 37 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

38.B8 TX & DUPLEXER

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The type and specification of the components refer to the BOM

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 38 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

39.B17 TX & DUPLEXER

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The type and specification of the components refer to the BOM

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 39 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

42.WTR1605L RF POWER

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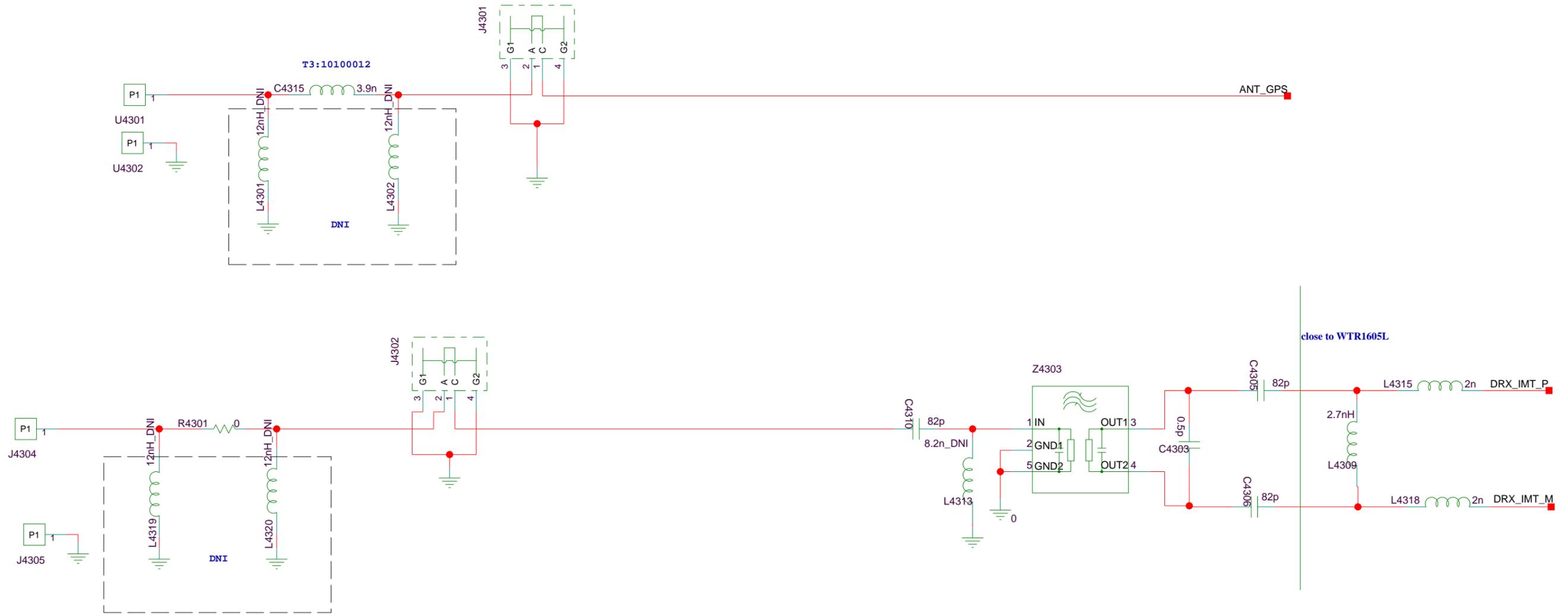
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		B	03021RNJ	HUAWEI TECH CO.,LTD.	

43.DRX1



The type and specification of the components refer to the BOM

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		B	03021RNJ	HUAWEI TECH CO.,LTD.	

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44.DRX2

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The type and specification of the components refer to the BOM

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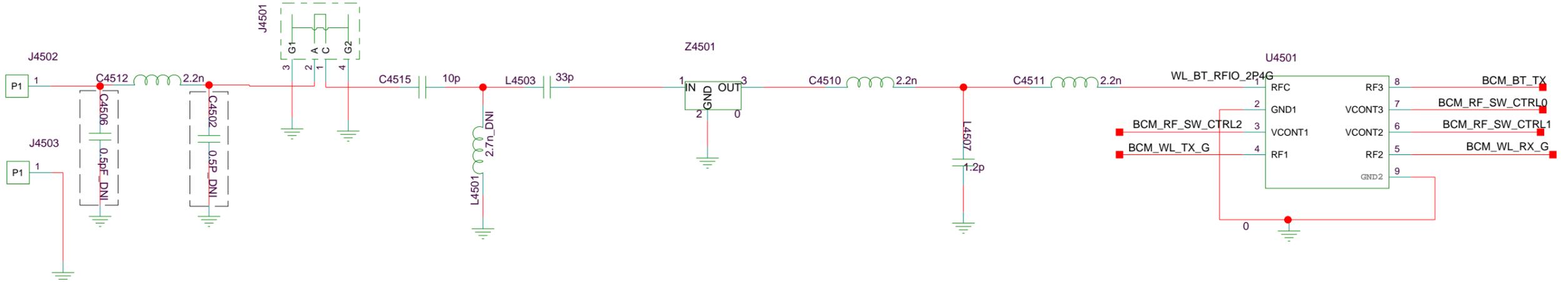
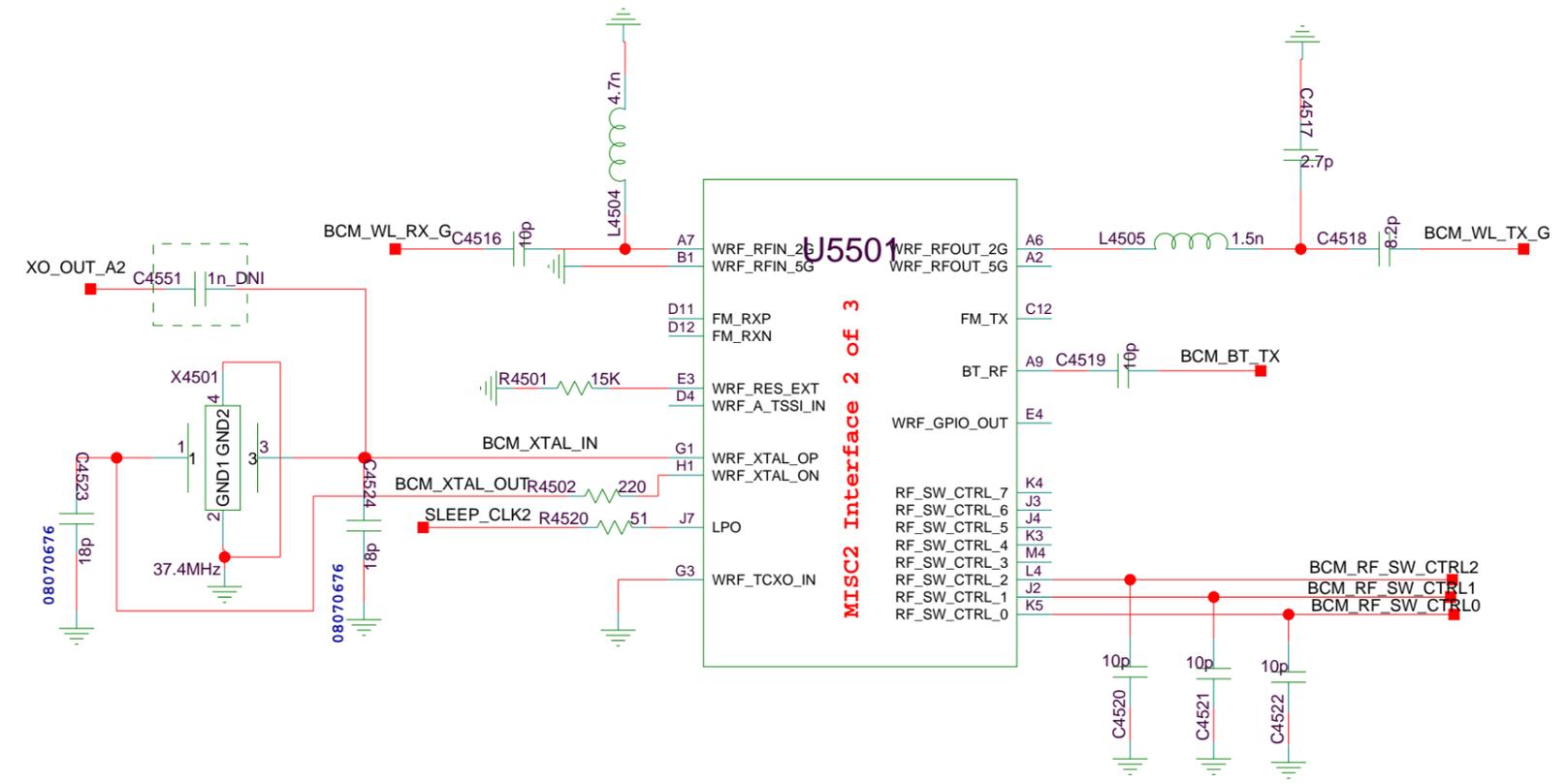
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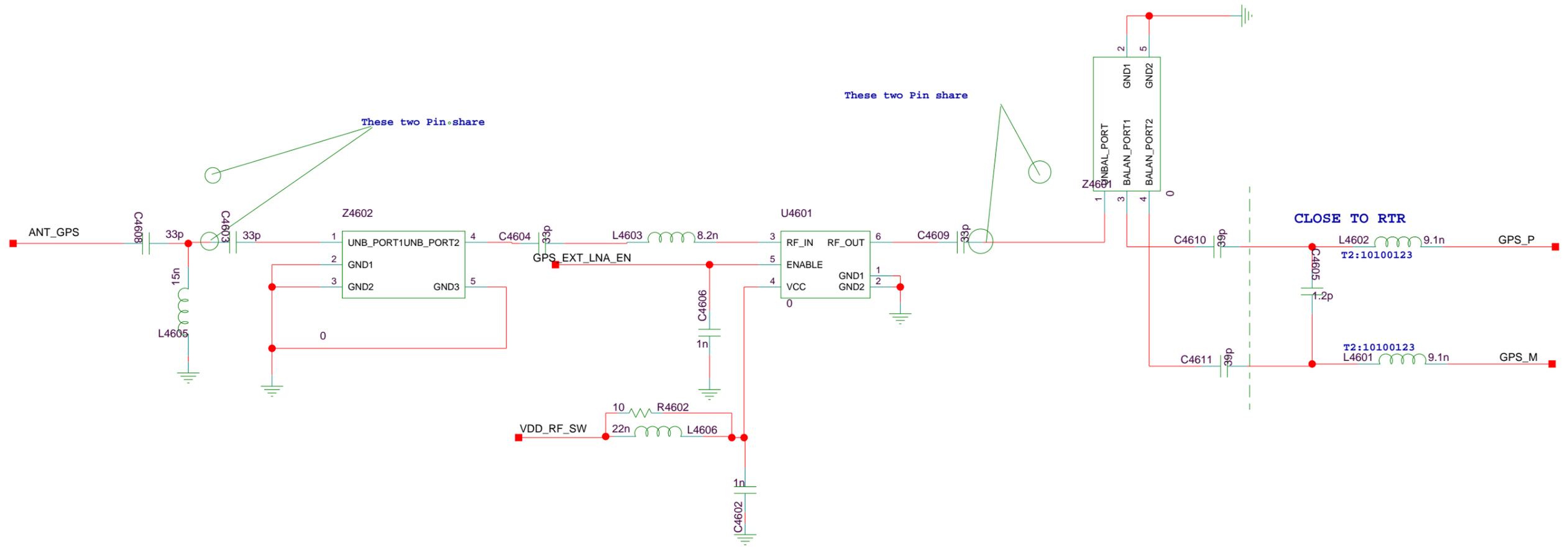
45.BT/WLAN



The type and specification of the components refer to the BOM

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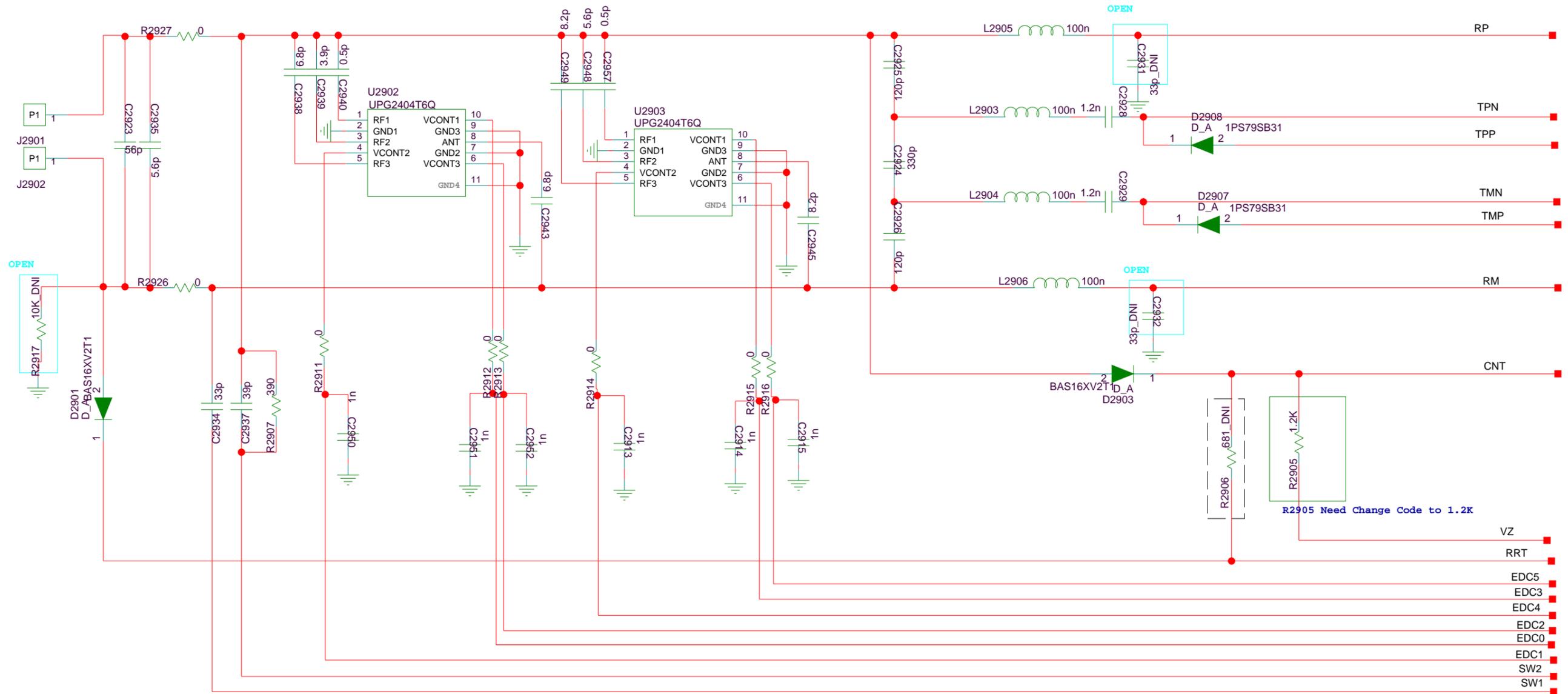
46. GLONASS FRONT END



The type and specification of the components refer to the BOM

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DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 46 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

47.Felica RF



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET	47 OF 52
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

48.VCTCXO

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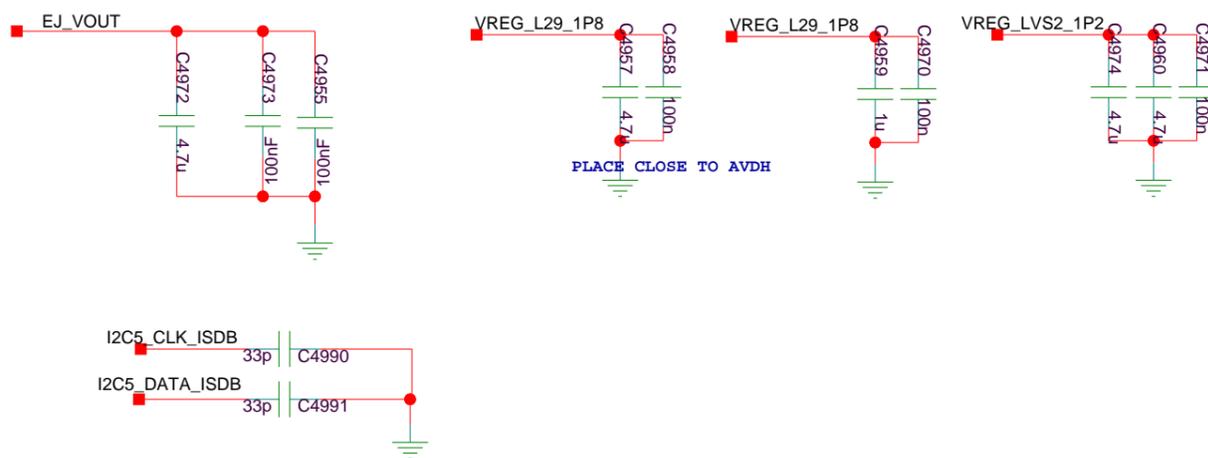
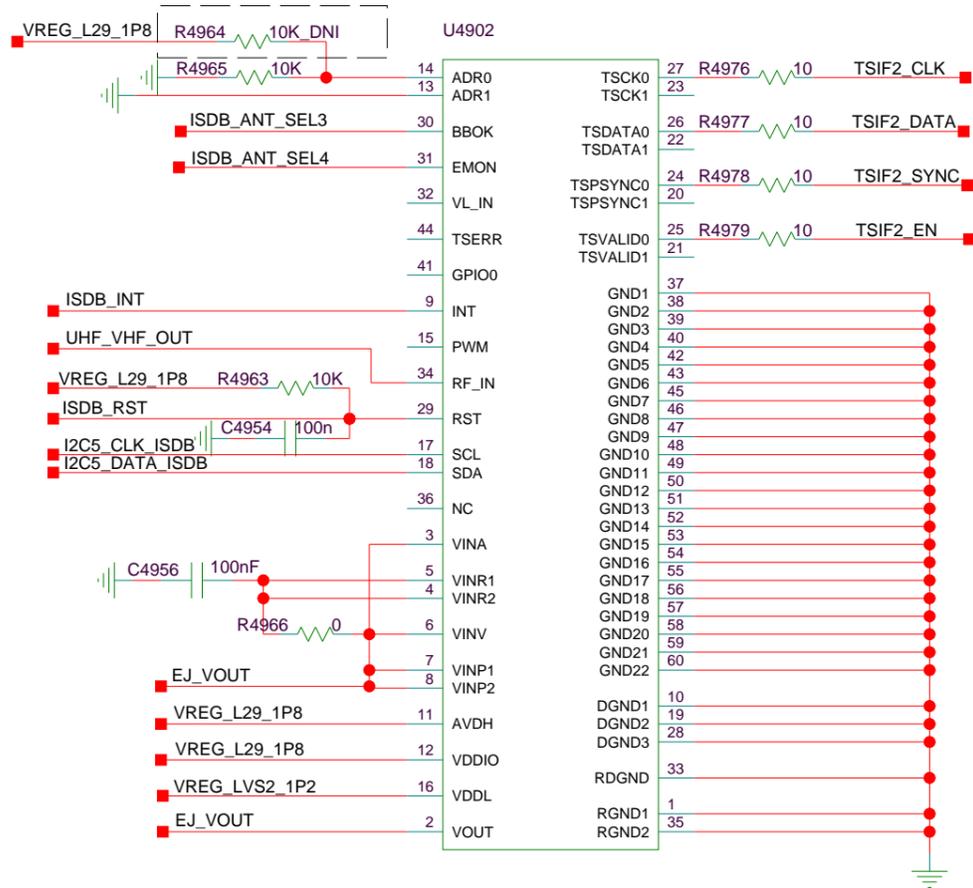
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The type and specification of the components refer to the BOM

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		B	03021RNJ	HUAWEI TECH CO.,LTD.	

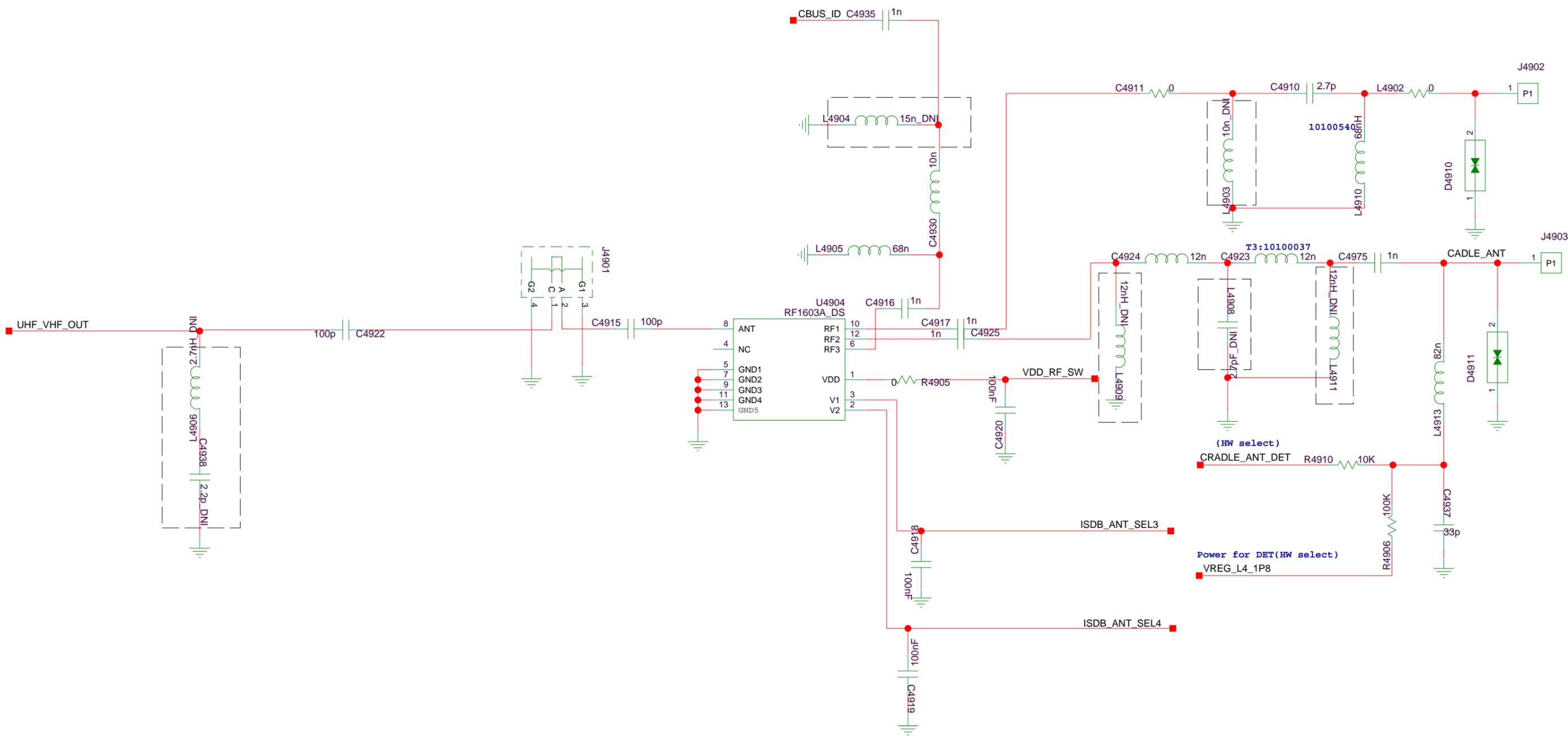
49. ISDB-T/Tmm BB



The type and specification of the components refer to the BOM

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		VER	PART_NUMBER	SHEET 49 OF 52	
		B	03021RNJ	HUAWAI TECH CO.,LTD.	

50.ISDB-T/Tmm RF PART



The type and specification of the components refer to the BOM

				1386390	2012-08-24
				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304	VER	PART_NUMBER	SHEET 50 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

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B

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D

The type and specification of the components refer to the BOM

				1386390	2012-08-24
				ECA NO	DATE
DESIGNED	YEJIANBO 00145465	HL2U8960TMM		03021RNJ_SCHZH	
REVIEWED	JISHIFU 56304				
		VER	PART_NUMBER	SHEET 51 OF 52	
		B	03021RNJ	HUAWEI TECH CO.,LTD.	

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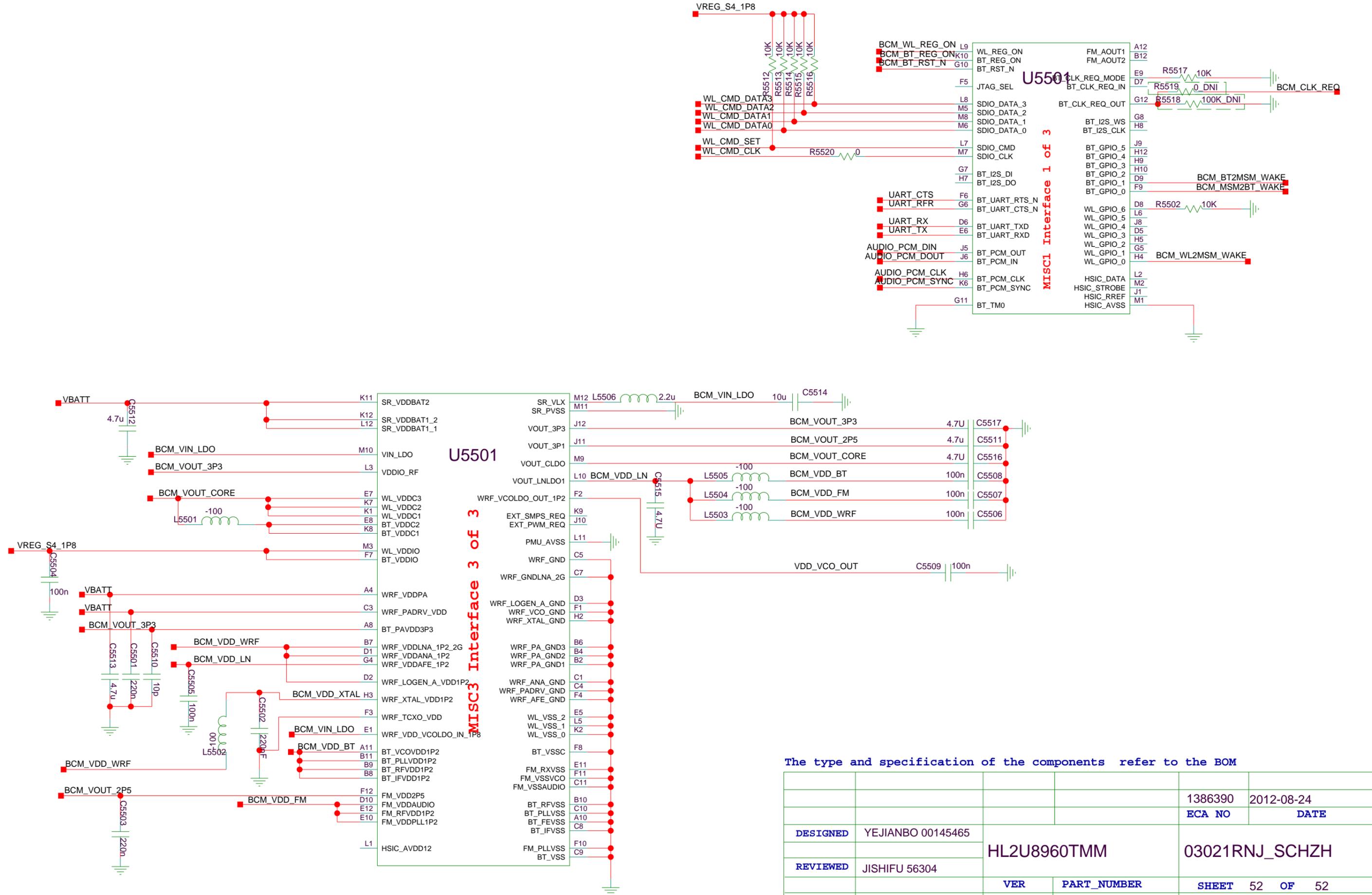
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52. BCM4330 BB



The type and specification of the components refer to the BOM

DESIGNED	YEJIANBO 00145465	HL2U8960TMM	1386390	2012-08-24
REVIEWED	JISHIFU 56304	HL2U8960TMM	ECA NO	DATE
		HL2U8960TMM	03021RNJ_SCHZH	
		VER	PART_NUMBER	SHEET 52 OF 52
		B	03021RNJ	HUAWEI TECH CO.,LTD.