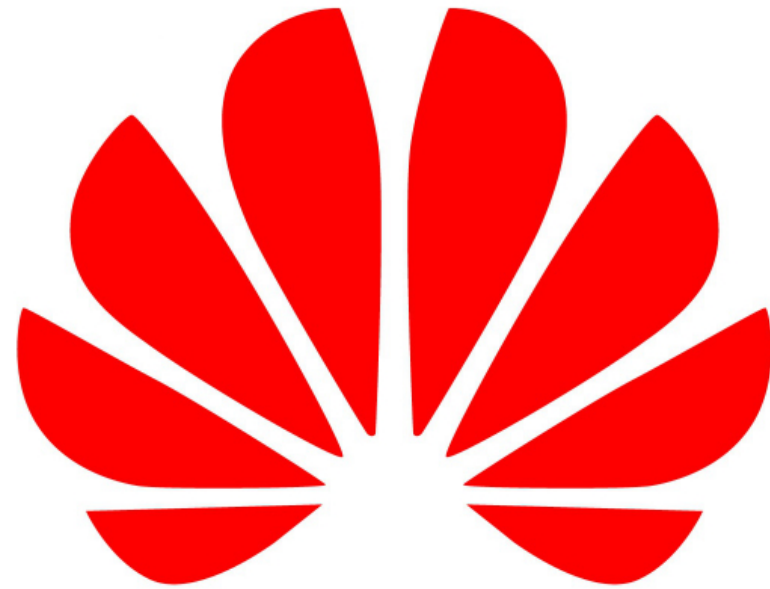


Huawei G9 Lite (G9-AL00/CL00) Schematic



HUAWEI

Diagram



Schematic



AP SCHEMETIC

1. Contents

2. PM8952 Control and MPP/Clock

3. PMI8952 Charge

4. PMI8952 Power and Control

5. PM8952 SMPS

6. PM8952 LDO

7. PM8952 CODEC

8. MSM8952 Control

9. MSM8952 EBI

10. MSM8952 GPIO

11. MSM8952 MIPI and RF Control

12. MSM8952 Power1

13. MSM8952 Power2

14. MSM8952 GND

15. eMMC and LPDDR3

16. Battery/USB IF.

17. Speaker

18. MIC

19. Earphone

20. LCD/CTP IF.

21. Camera IF.

22. Sensor

23. SIM/TF IF.

24. Sidekey

25. Reserved (CTP IF.)

26. Test Points

27. NFC (PN548)

28. Fingerprint Module IF.

29. Shielding

30. Sub PCB IF.
- 31.RF Interface

32.RESERVED

33.Main Antenna Switcher

34.RESERVED

35.RESERVED

36.RESERVED

37.QFE2320(MMPA)

38.Circuit of MMPA

39.TRX_B1

40.TRX_B8

41.TRX_B5

42.TRX_B3/GSM1900

43.RESERVED

44.RESERVED

45.DRX LNA B3/B26

46.RESERVED

47.TRX_B41

48.RESERVED

49.RESERVED

50.RESERVED

51.DRX LNA B41/B1

52.DRX_B1/B3/B26

53.RESERVED

54.DRX_B41

55.DRX_ANT_SWITCH

56.WTR4905

57.RESERVED

58.ET_APT
- 59.GPS

60.WIFI/BT BB

61.WIFI/BT RF

62.Reserved

63.NFC

64.RESERVED

65.RESERVED

66.ANT Match

67.MAIN ANT Tuner

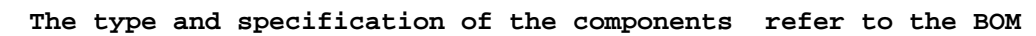
68.DRX ANT Tuner

69.Reserved

The type and specification of the components refer to the BOM

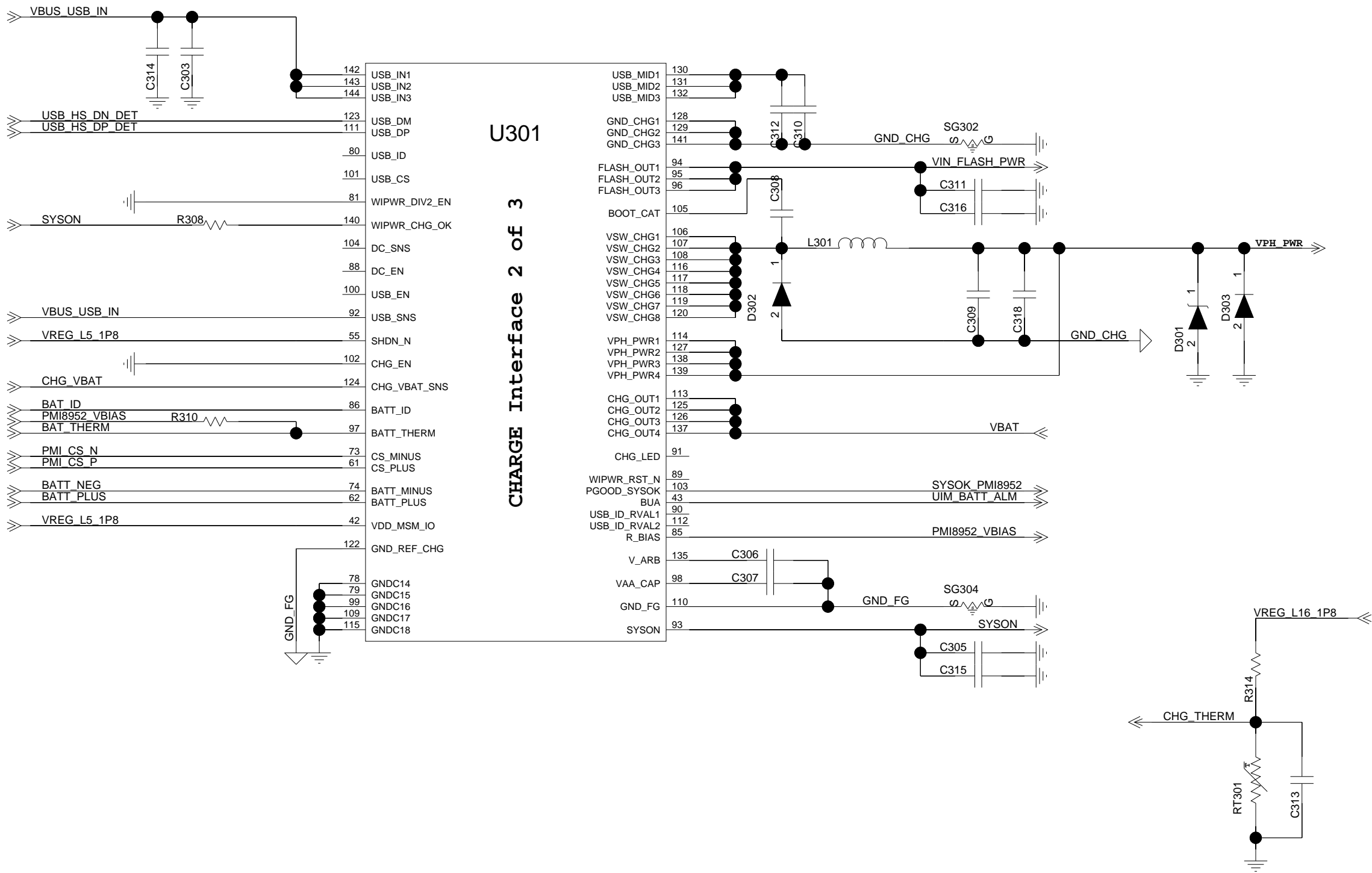
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REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	1_INDEX 69
		D	03023LER	HUAWEI TECH CO.,LTD.	

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					26-02-2016_15:13	D
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		D	03023LER	HUAWEI TECH CO.,LTD.		

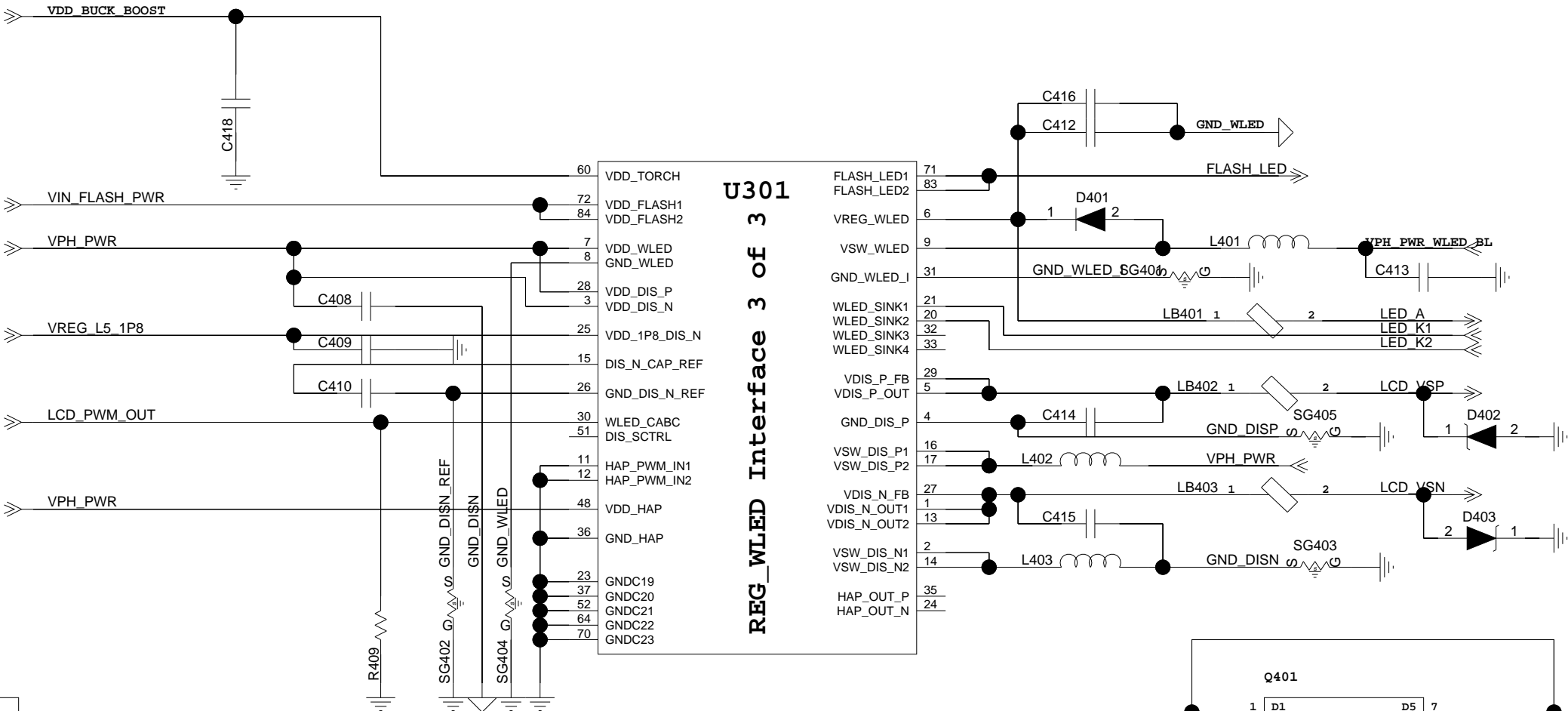
3. PMI8952 Charge



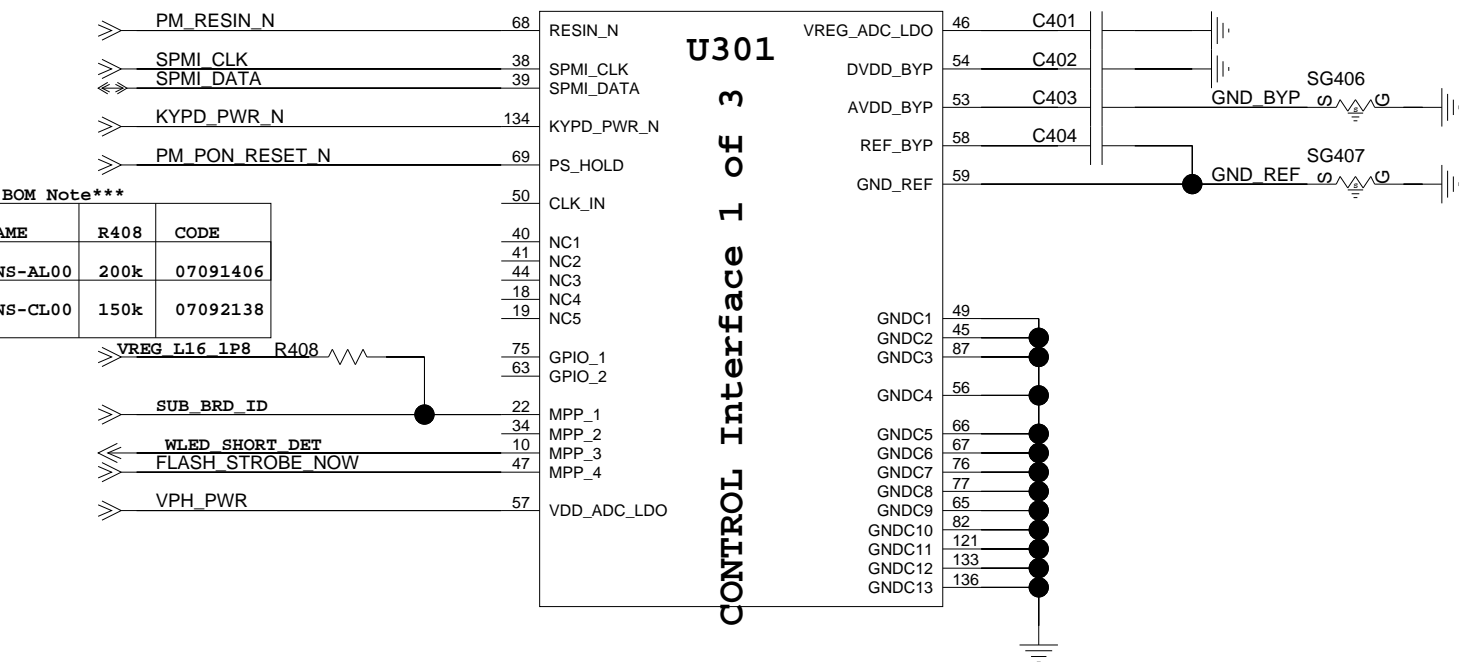
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REVIEWED	JIQING 169846				
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		D	03023LER	HUAWEI TECH CO.,LTD.	

4. PMI8952 Power and Control



MPP	ADC input	Analog output
MPP1	SUB_BRD_ID	NO
MPP2	NO	NO
MPP3	NO	Digital output
MPP4	DI	NO



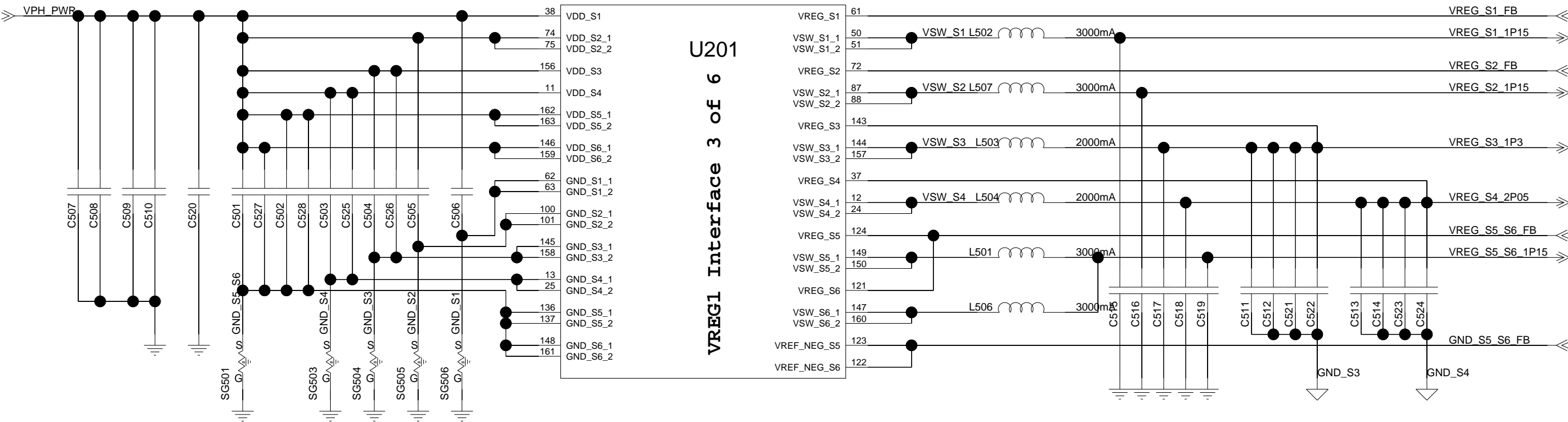
BOM Note***

NAME	R408	CODE
VNS-AL00	200k	07091406
VNS-CL00	150k	07092138

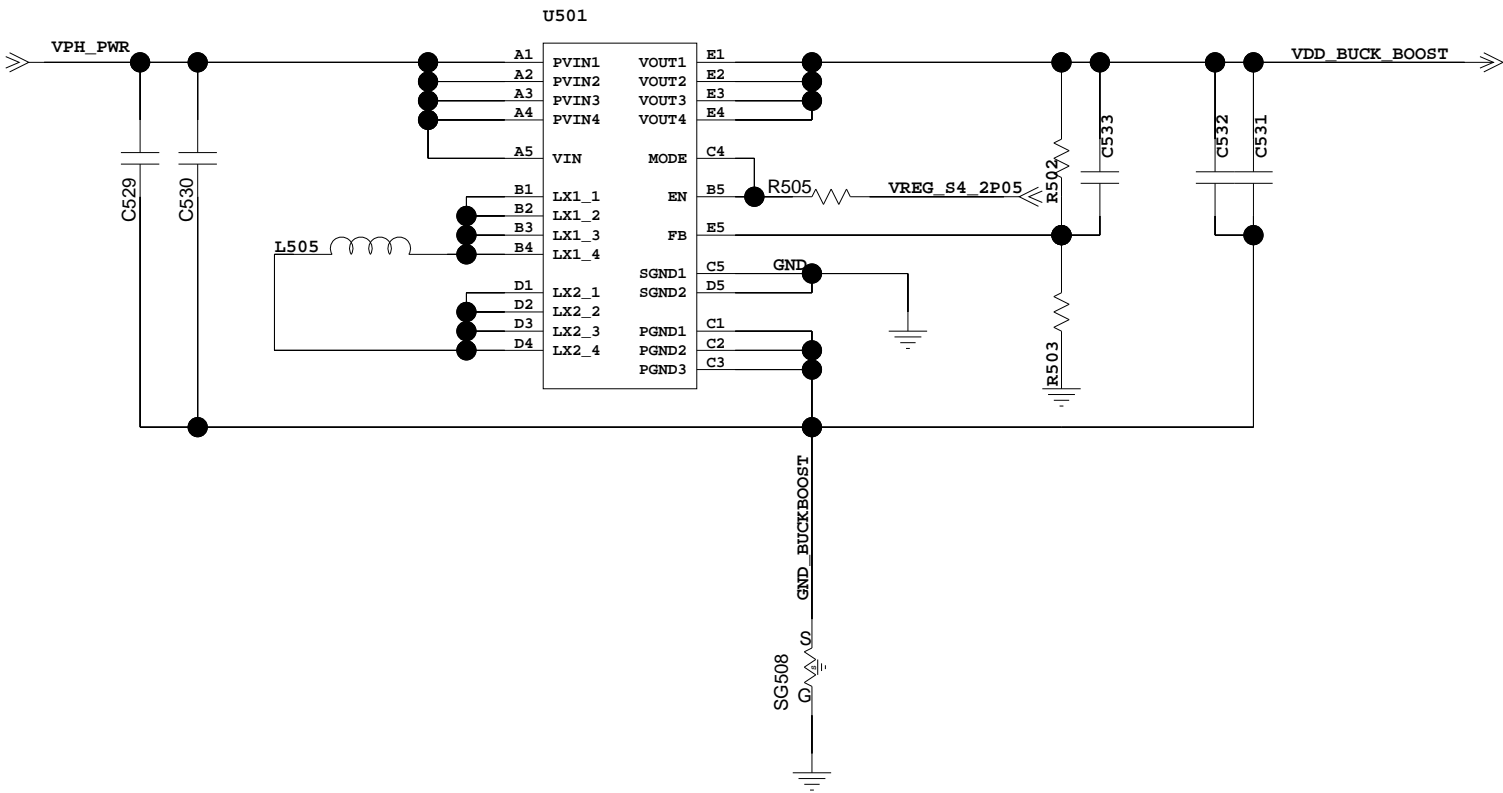
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REVIEWED	JIQING 169846			
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		D	03023LER	HUAWEI TECH CO.,LTD.

5. PM8952 SMPS



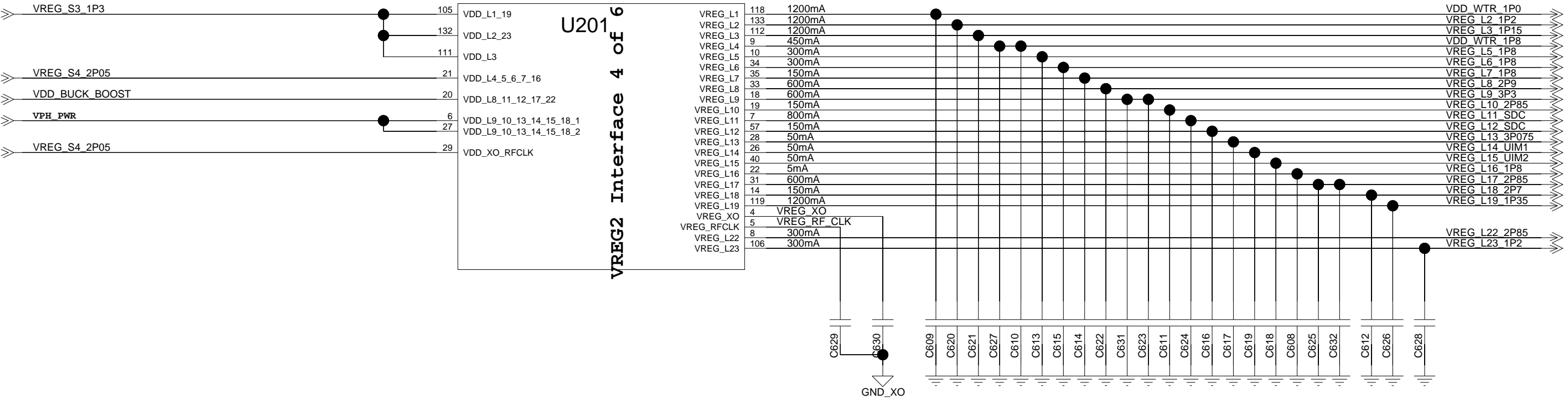
BUCK BOOST
 $V_{out} = 0.8 * (1 + R1/R2) = 3.224V$



The type and specification of the components refer to the BOM

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DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
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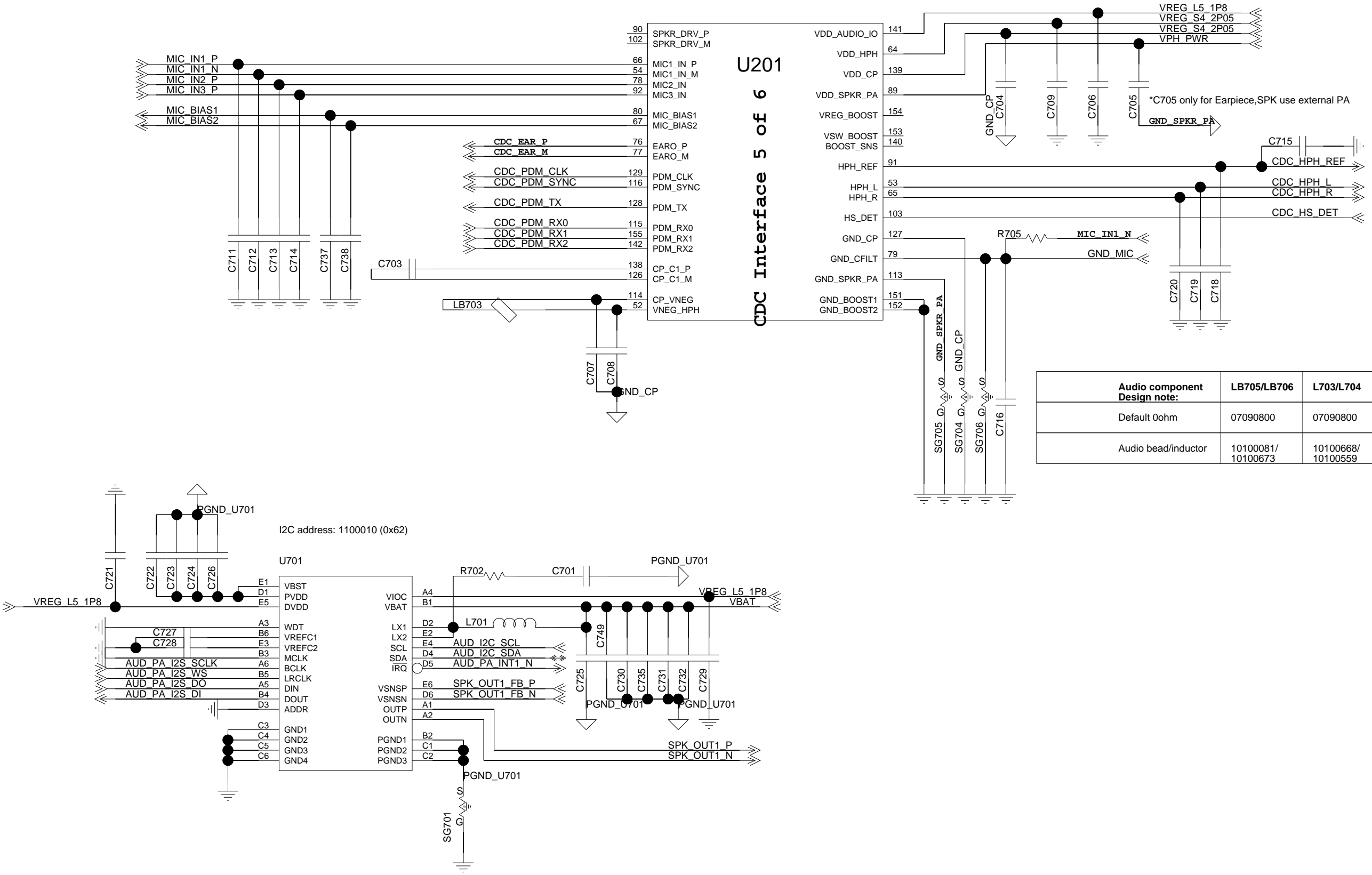
6. PM8952 LDO



The type and specification of the components refer to the BOM

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		D	03023LER	HUAWEI TECH CO.,LTD.

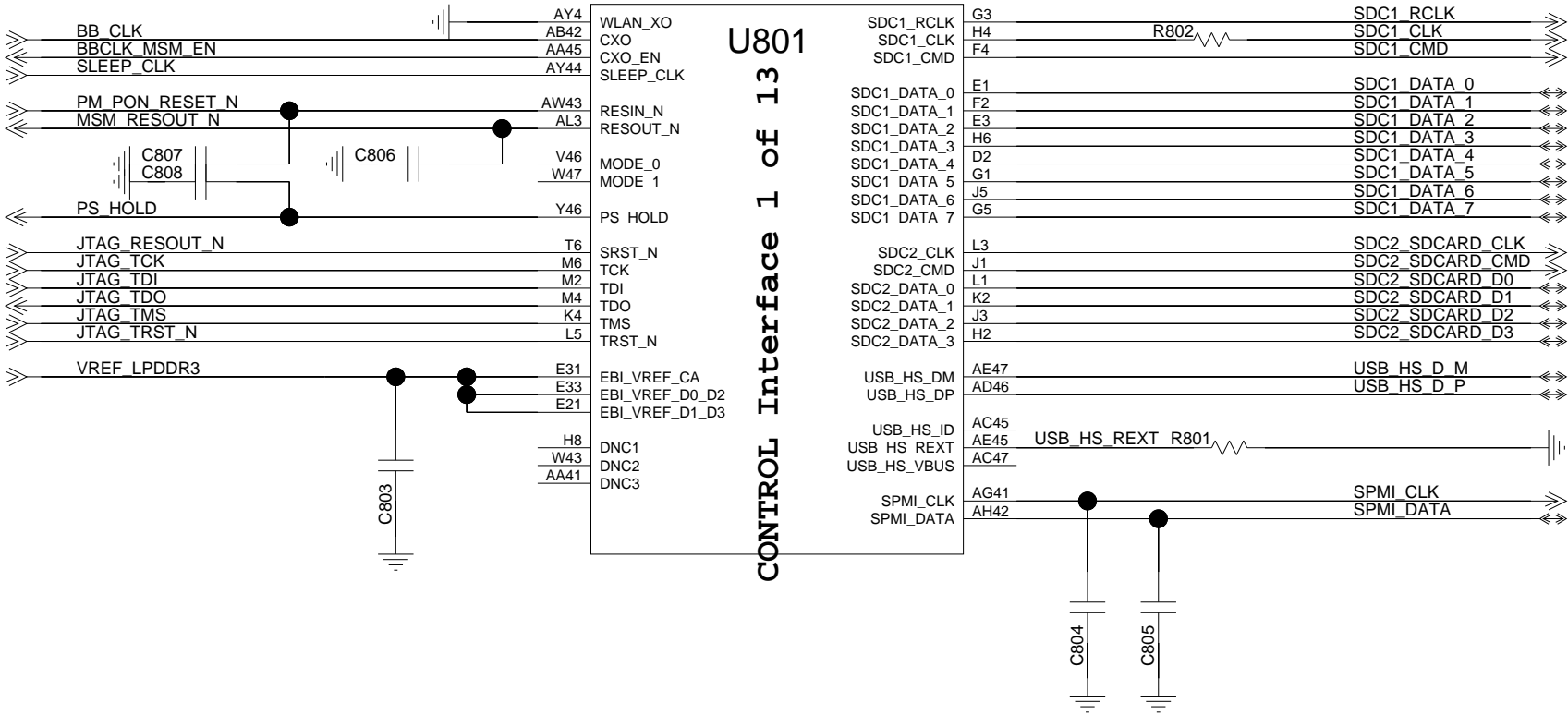
7. PM8952 CODEC



The type and specification of the components refer to the BOM

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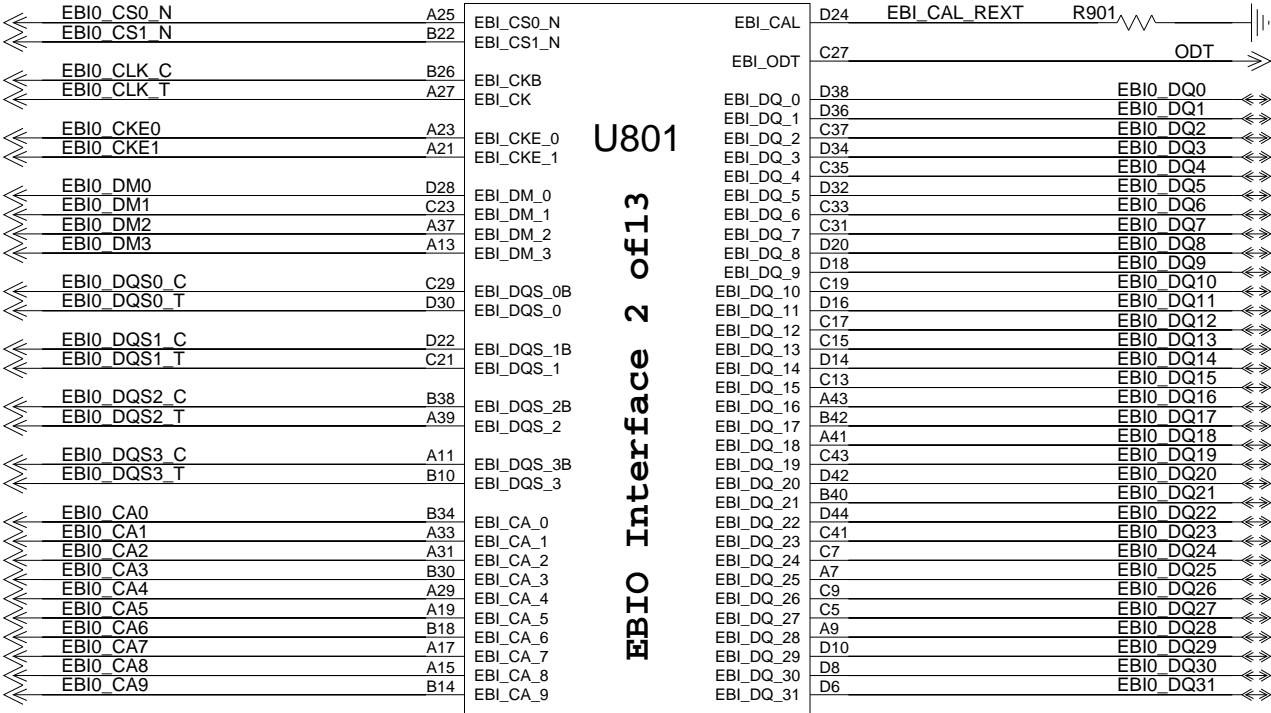
8. MSM8952 Control



The type and specification of the components refer to the BOM

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		D	03023LER	HUAWEI TECH CO.,LTD.	

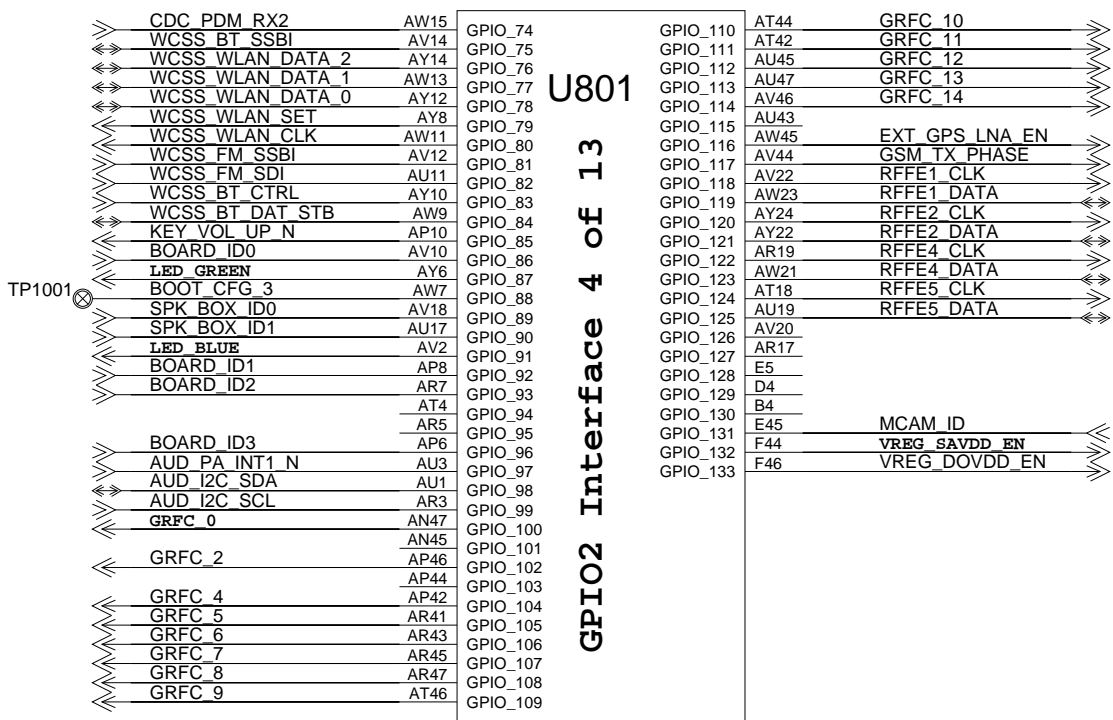
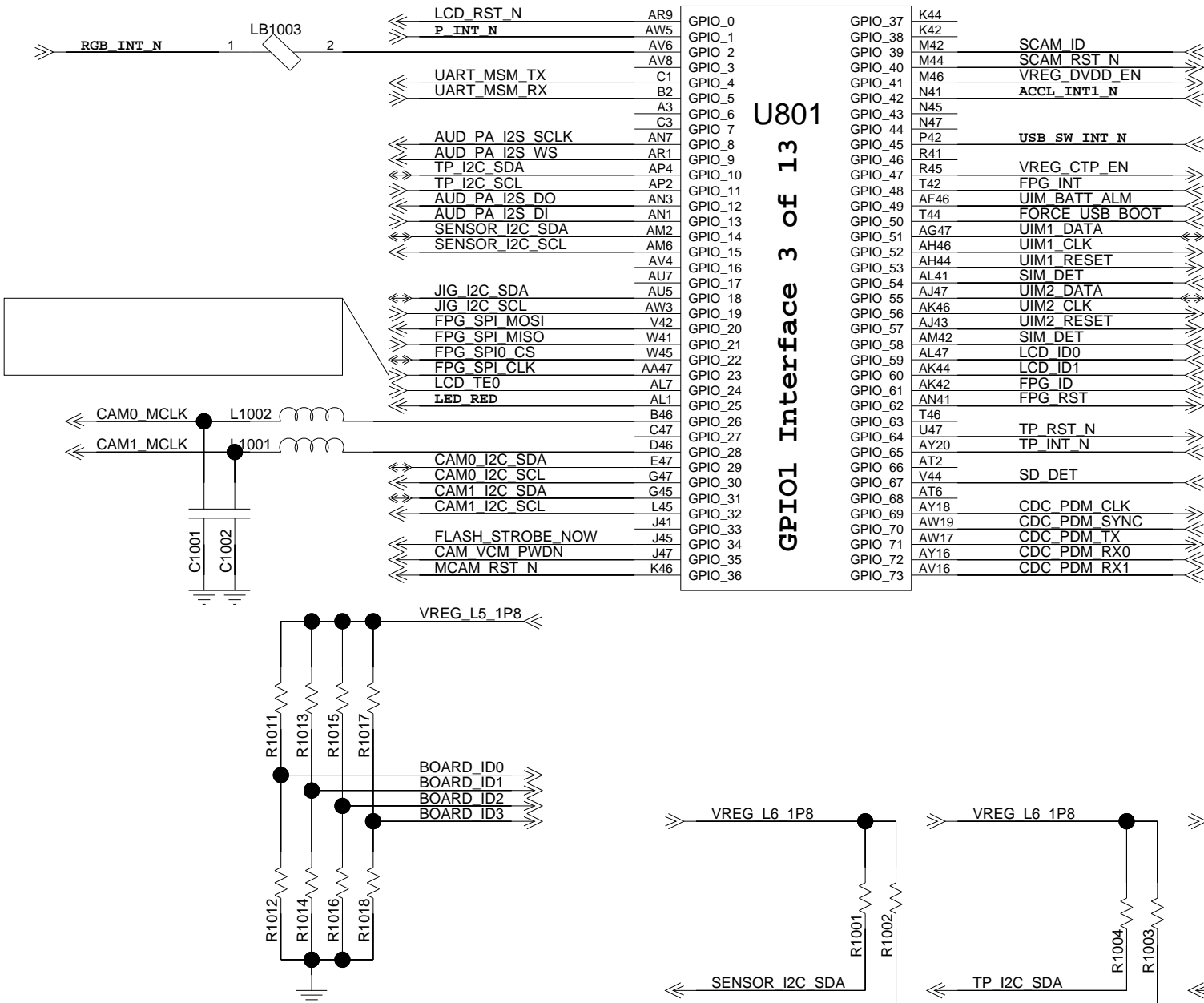
9. MSM8952 EBI



The type and specification of the components refer to the BOM

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REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	9_MSM8952 EBI
		D	03023LER	HUAWEI TECH CO.,LTD.	

10. MSM8952 GPIO



VENUS **BOM Notes

Board ID	R1011	R1012	R1013	R1014	R1015	R1016	R1017	R1018
AL00 V1/V2/V2.1	DNI	SMT	DNI	SMT	DNI	SMT	DNI	SMT
AL00 V3(A/B)	DNI	SMT	DNI	SMT	DNI	SMT	SMT	DNI
AL00 V3C/V3.1	DNI	SMT	DNI	SMT	DNI	DNI	DNI	SMT
CL00(V3)	DNI	SMT	DNI	SMT	DNI	SMT	DNI	DNI
AL00 (VN1)**	DNI	SMT	DNI	DNI	DNI	SMT	DNI	SMT
CL00(VN1)	DNI	SMT	DNI	DNI	DNI	SMT	DNI	DNI

VN1.1 TBD,Reference the boardid table

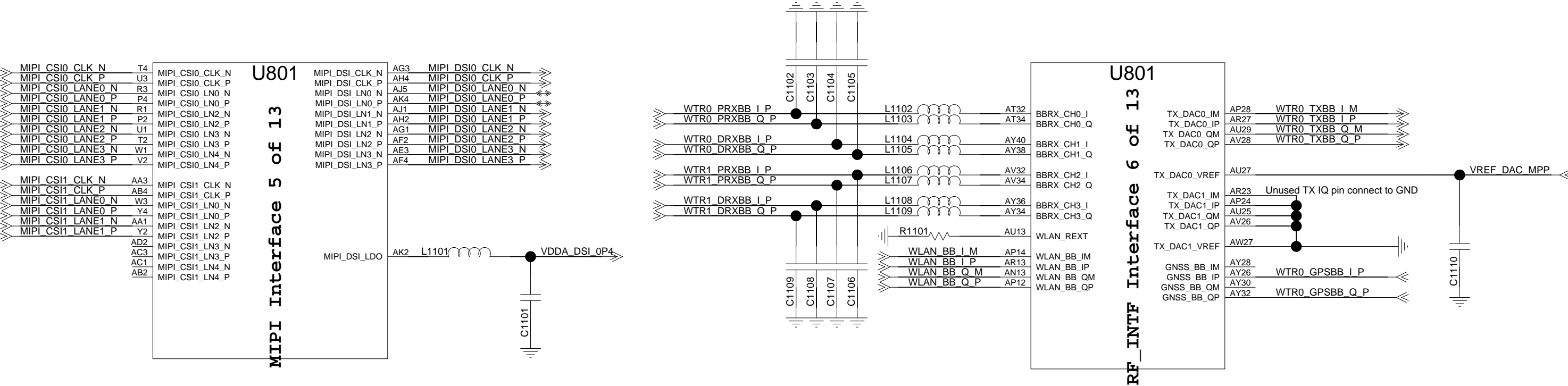
GPIO PIN	BOOT_CONFIG
GPIO_111	BOOT_CONFIG[1]
GPIO_112	BOOT_CONFIG[2]
GPIO_88	BOOT_CONFIG[3]

BOOT_CFG [3:1]	
0b000	SDC1->SDC2->USB2.0
0b001	SDC2->SDC1->USB2.0
0b010	SDC1->USB2.0
0b011	USB2.0

The type and specification of the components refer to the BOM

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DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
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		D	03023LER	HUAWEI TECH CO.,LTD.	

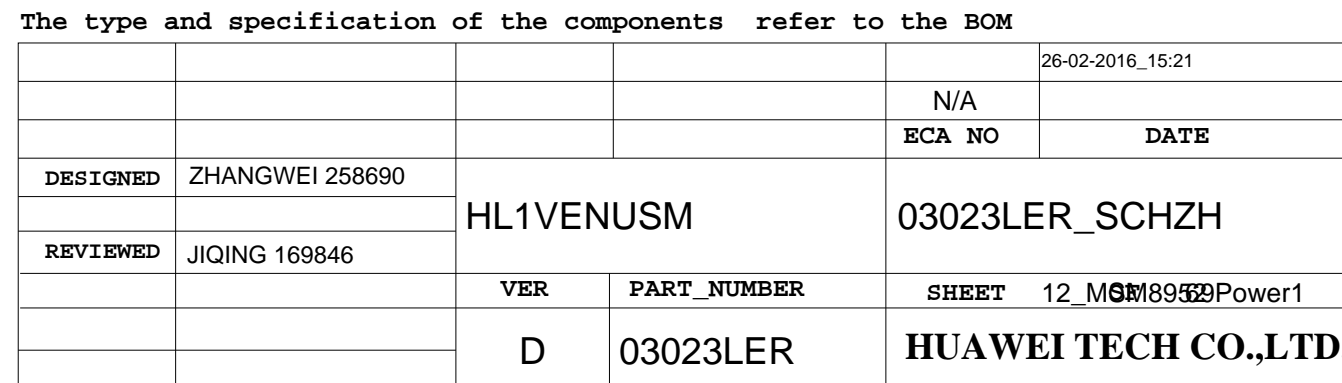
11. MSM8952 MIPI and RF Control



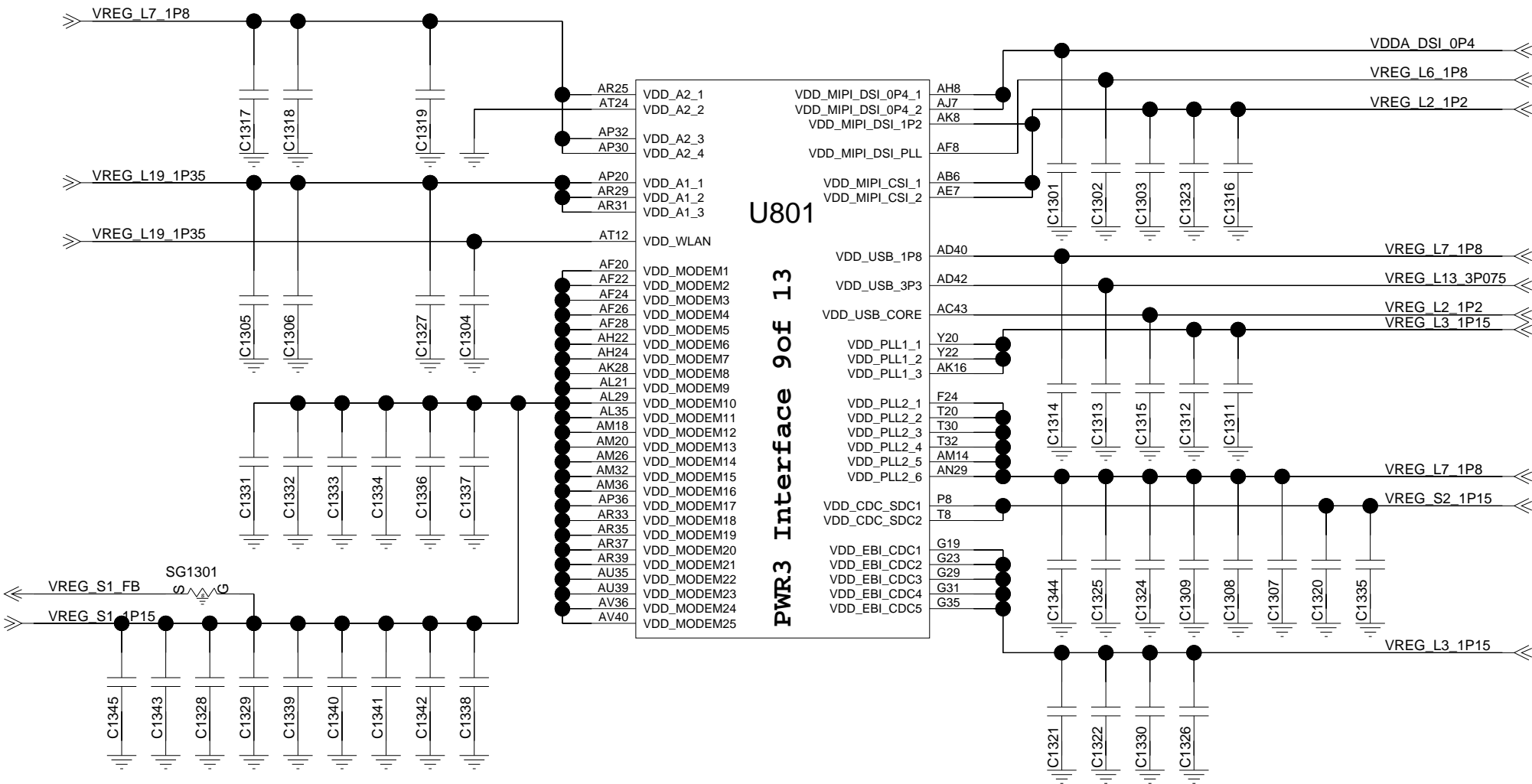
The type and specification of the components refer to the BOM

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REVIEWED	JIQING 169846			
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		D	03023LER	HUAWEI TECH CO.,LTD.

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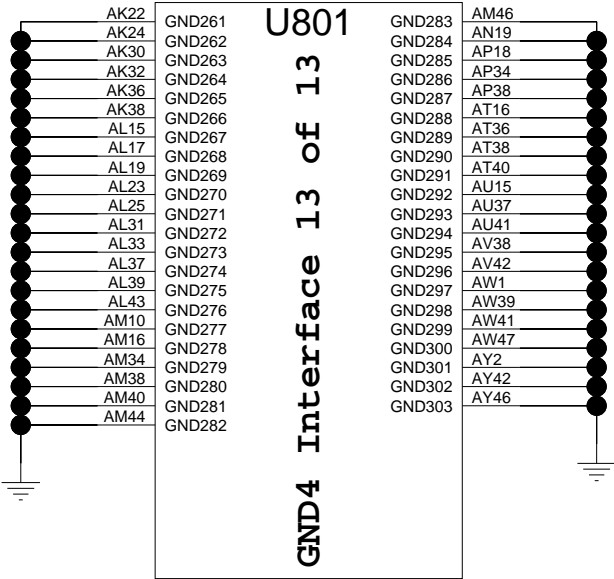
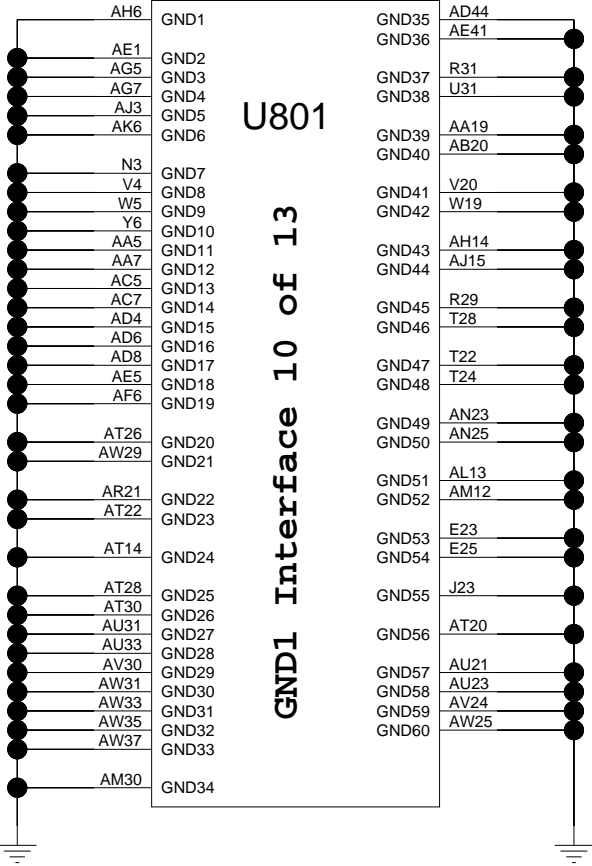
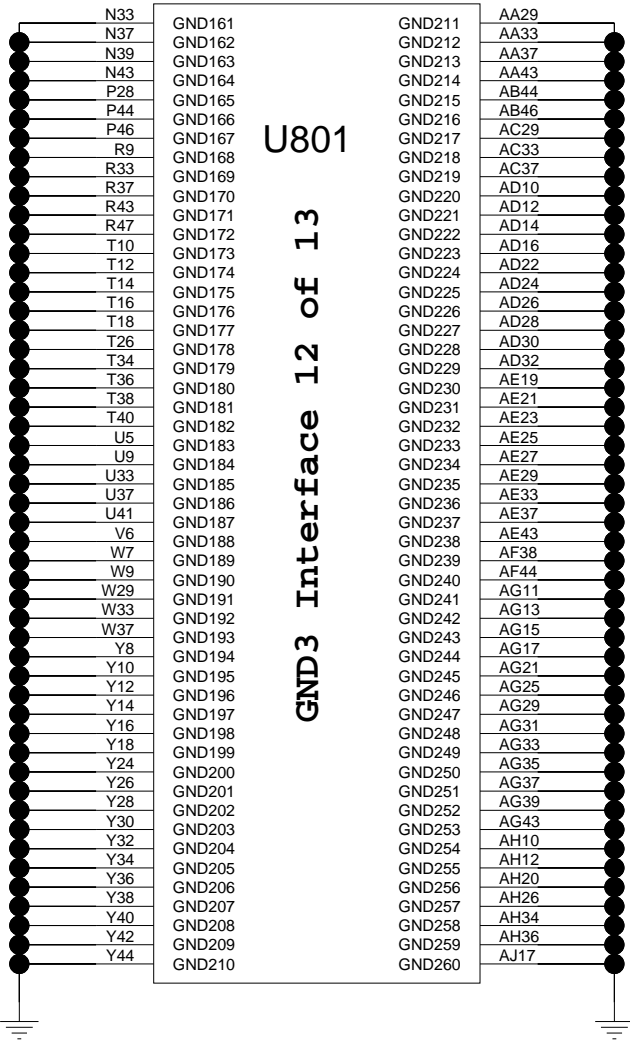
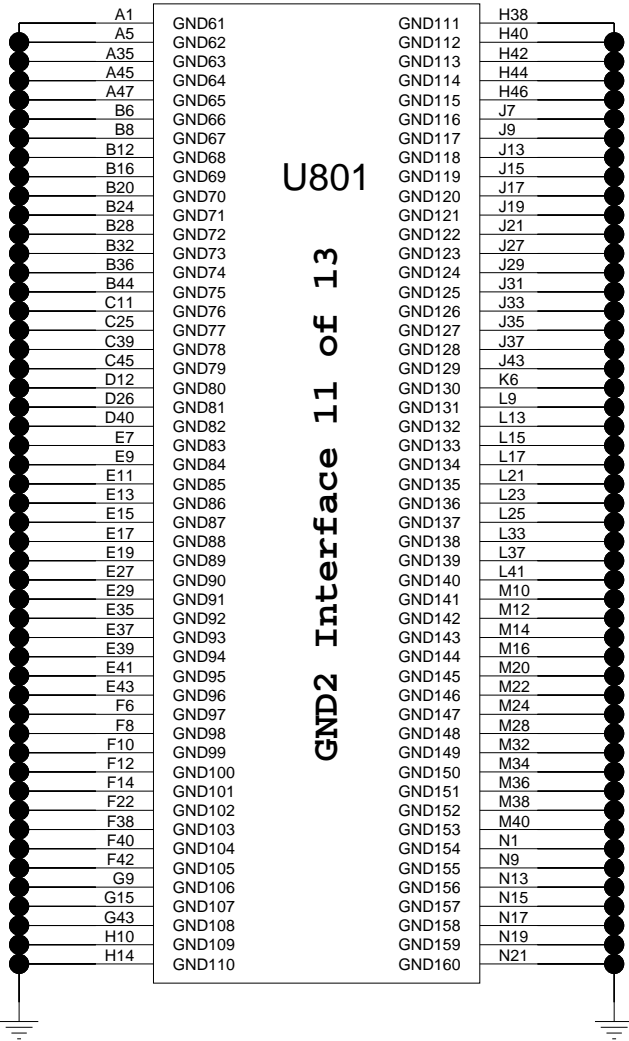
13. MSM8952 Power2



The type and specification of the components refer to the BOM

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REVIEWED	JIQING 169846			
		VER	PART_NUMBER	SHEET 13_MSM8952Power2
		D	03023LER	HUAWEI TECH CO.,LTD.

14. MSM8952 GND



The type and specification of the components refer to the BOM

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		D	03023LER	HUAWEI TECH CO.,LTD.

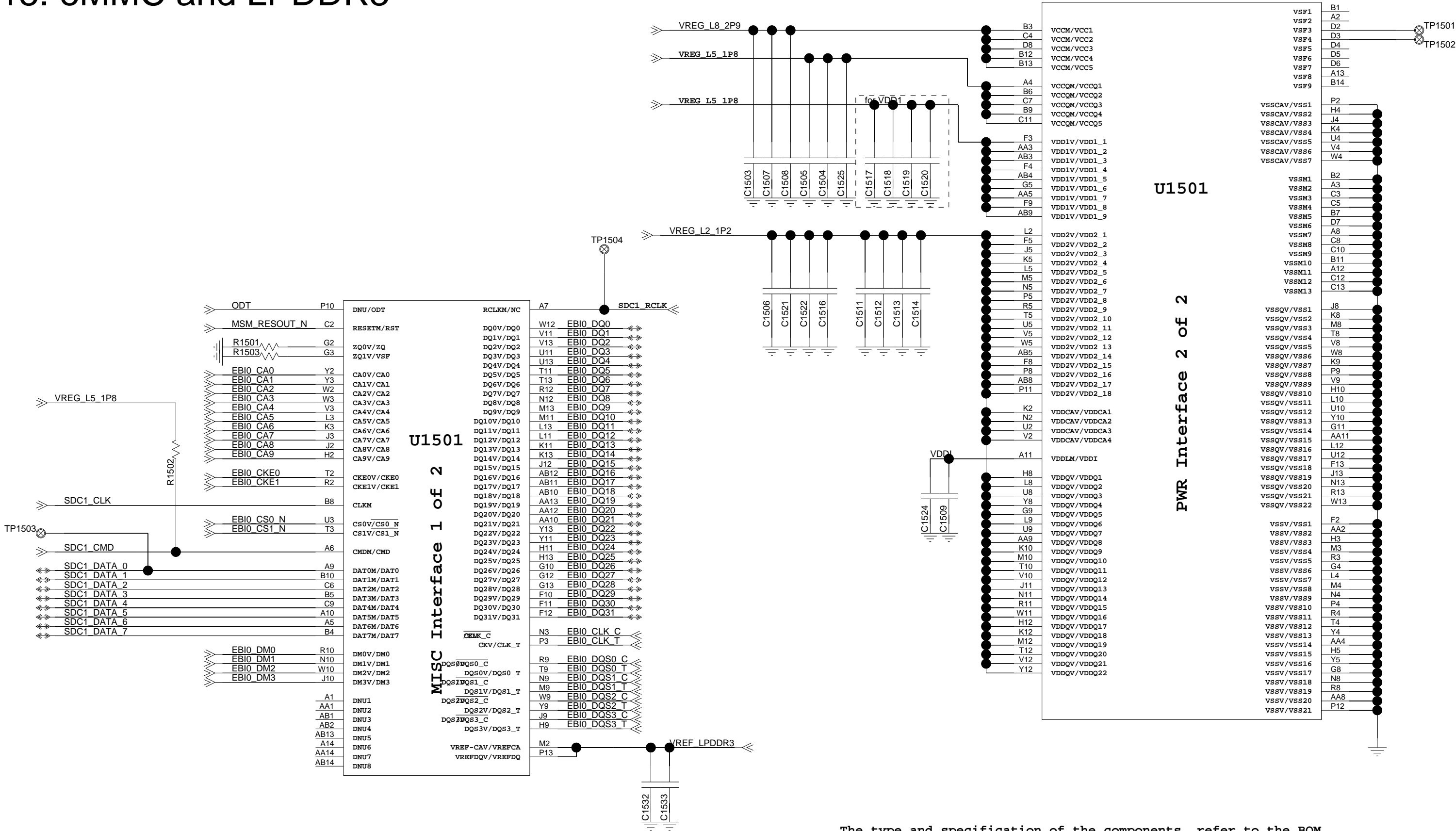
15. eMMC and LPDDR3

A

B

C

D



The type and specification of the components refer to the BOM

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		D	03023LER	HUAWEI TECH CO.,LTD.	

A

B

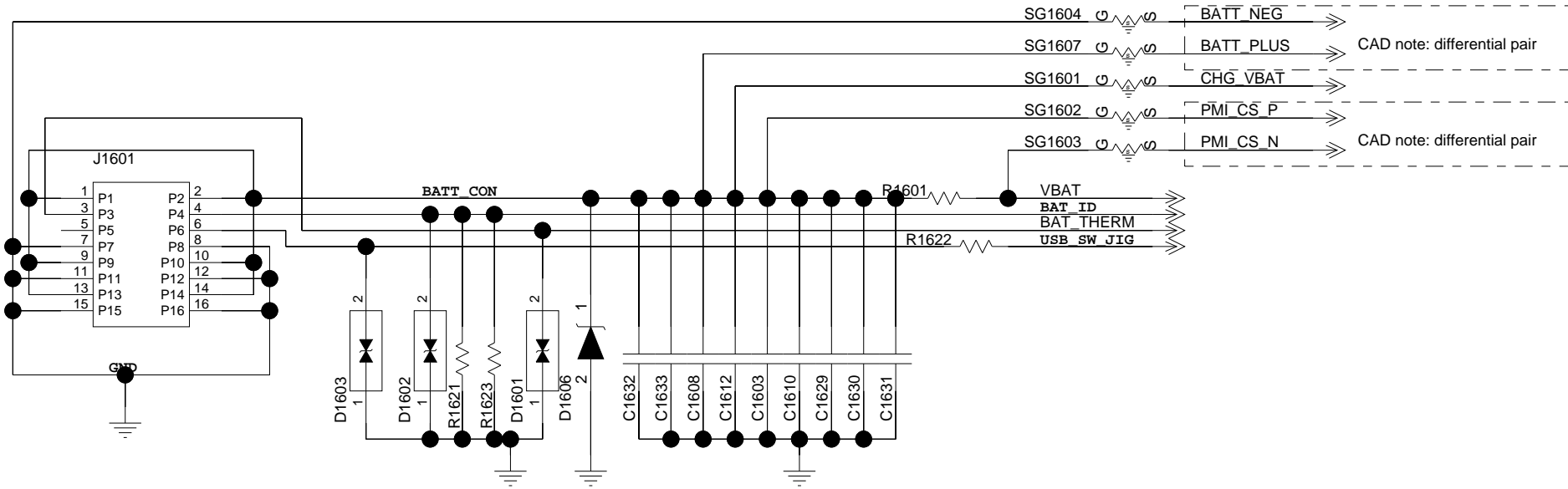
C

D

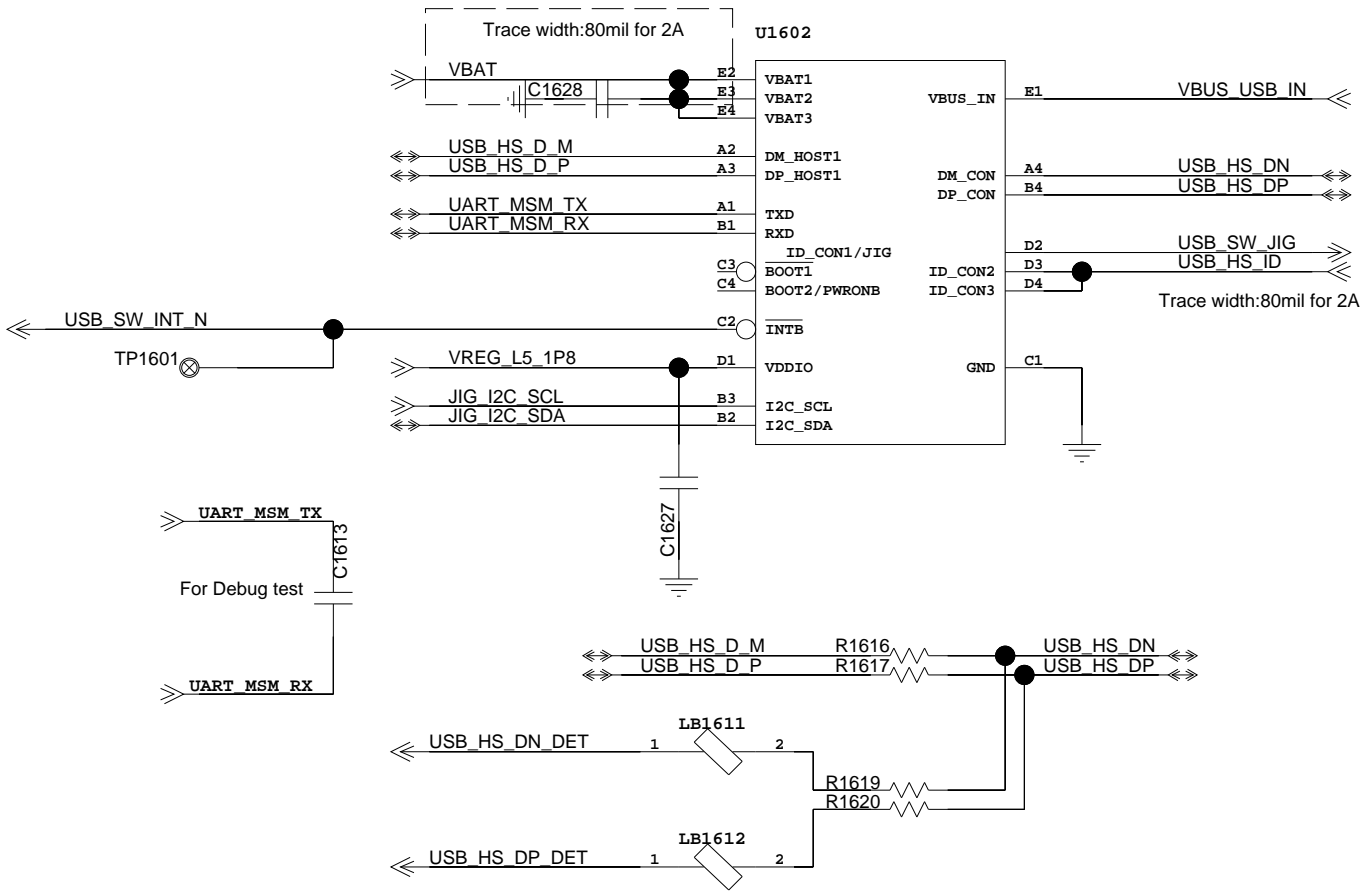
16. Battery/USB IF.



Battery Conector



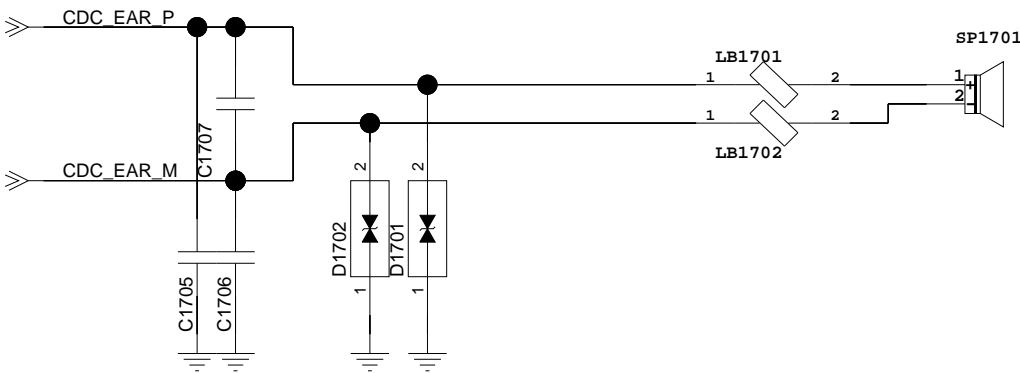
USB/UART SWITCH



The type and specification of the components refer to the BOM

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		D	03023LER	HUAWEI TECH CO.,LTD.

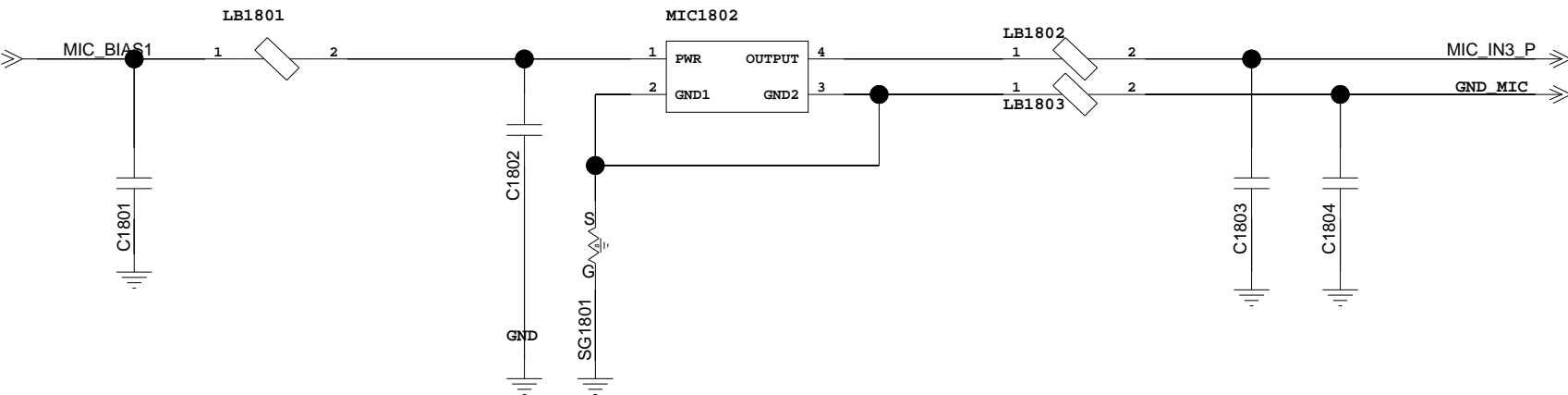
17. Receiever



The type and specification of the components refer to the BOM					
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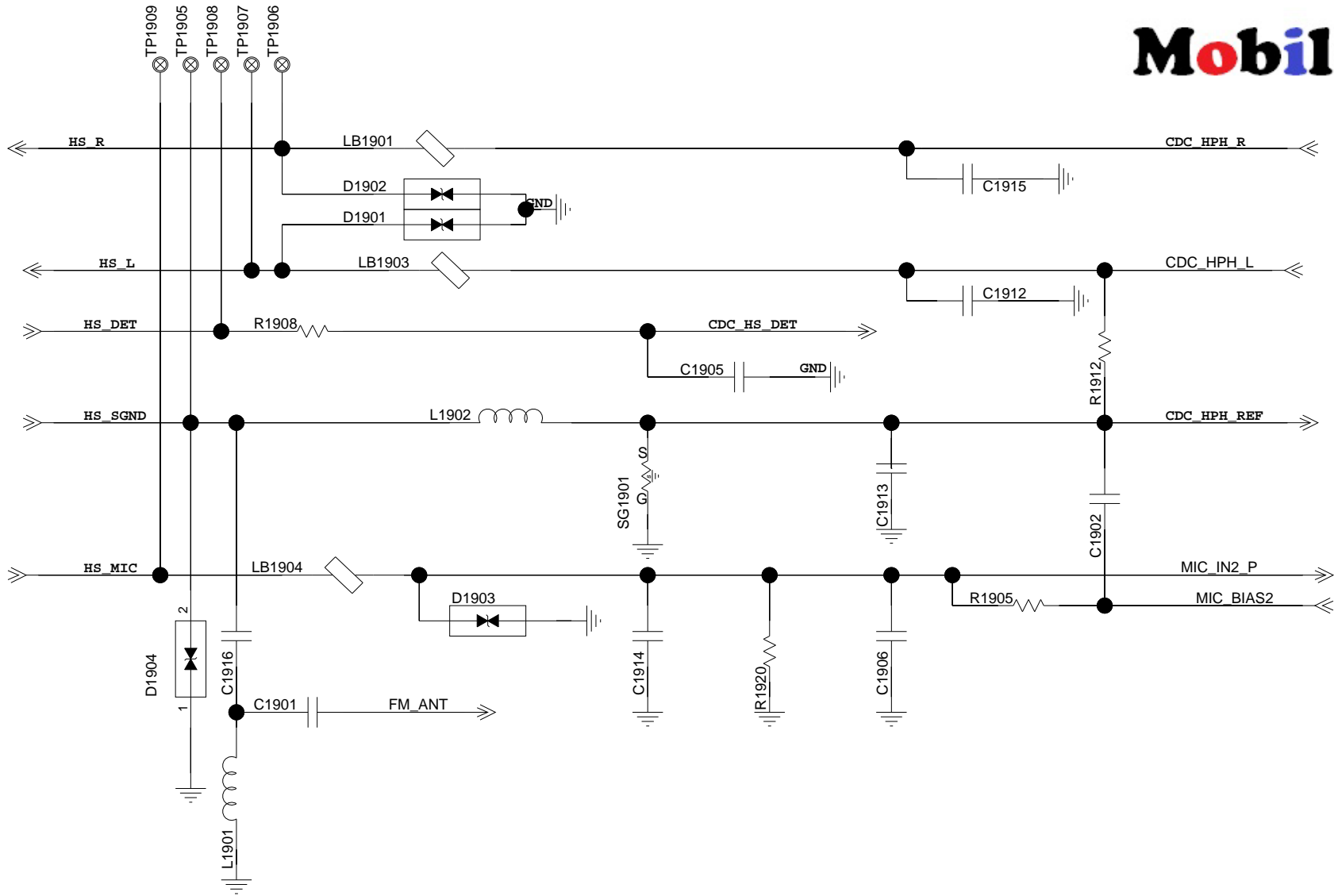
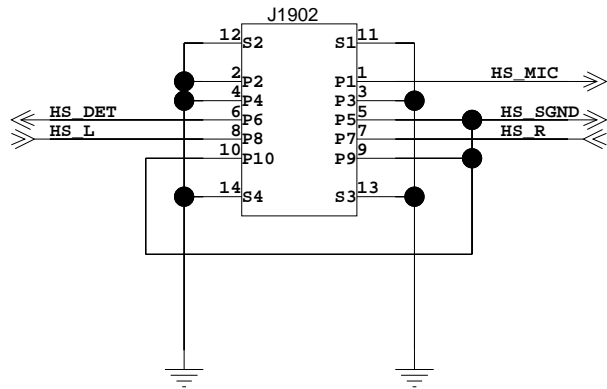
18. MIC

Secondary Mic



The type and specification of the components refer to the BOM					
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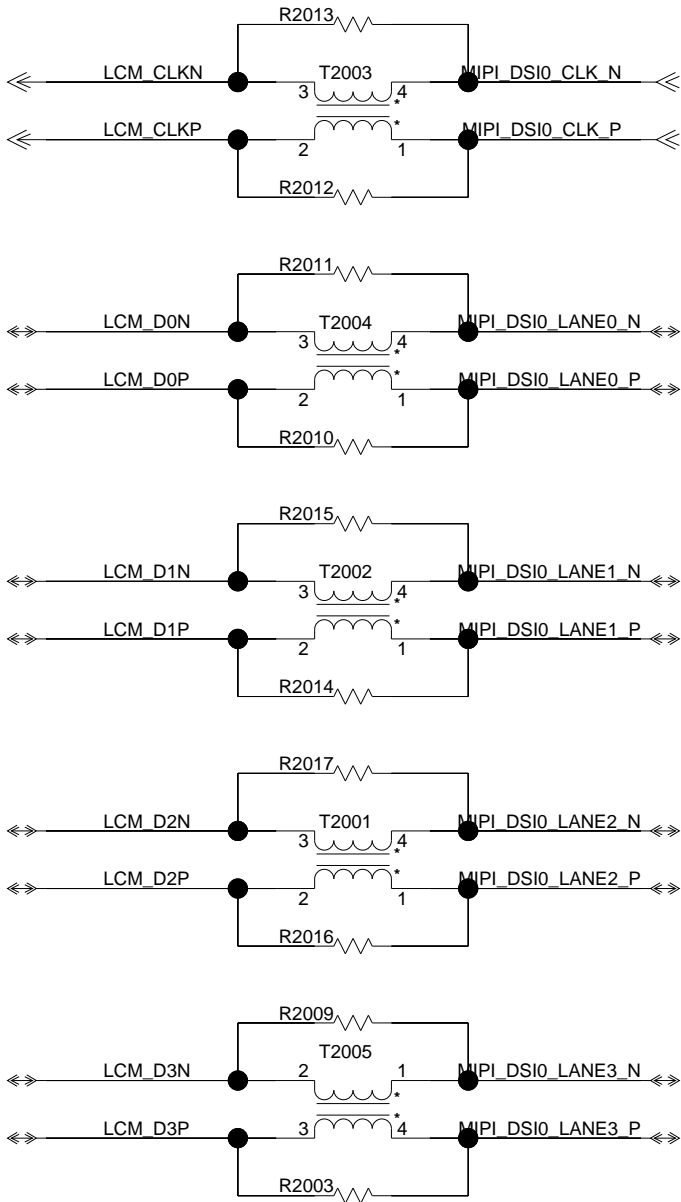
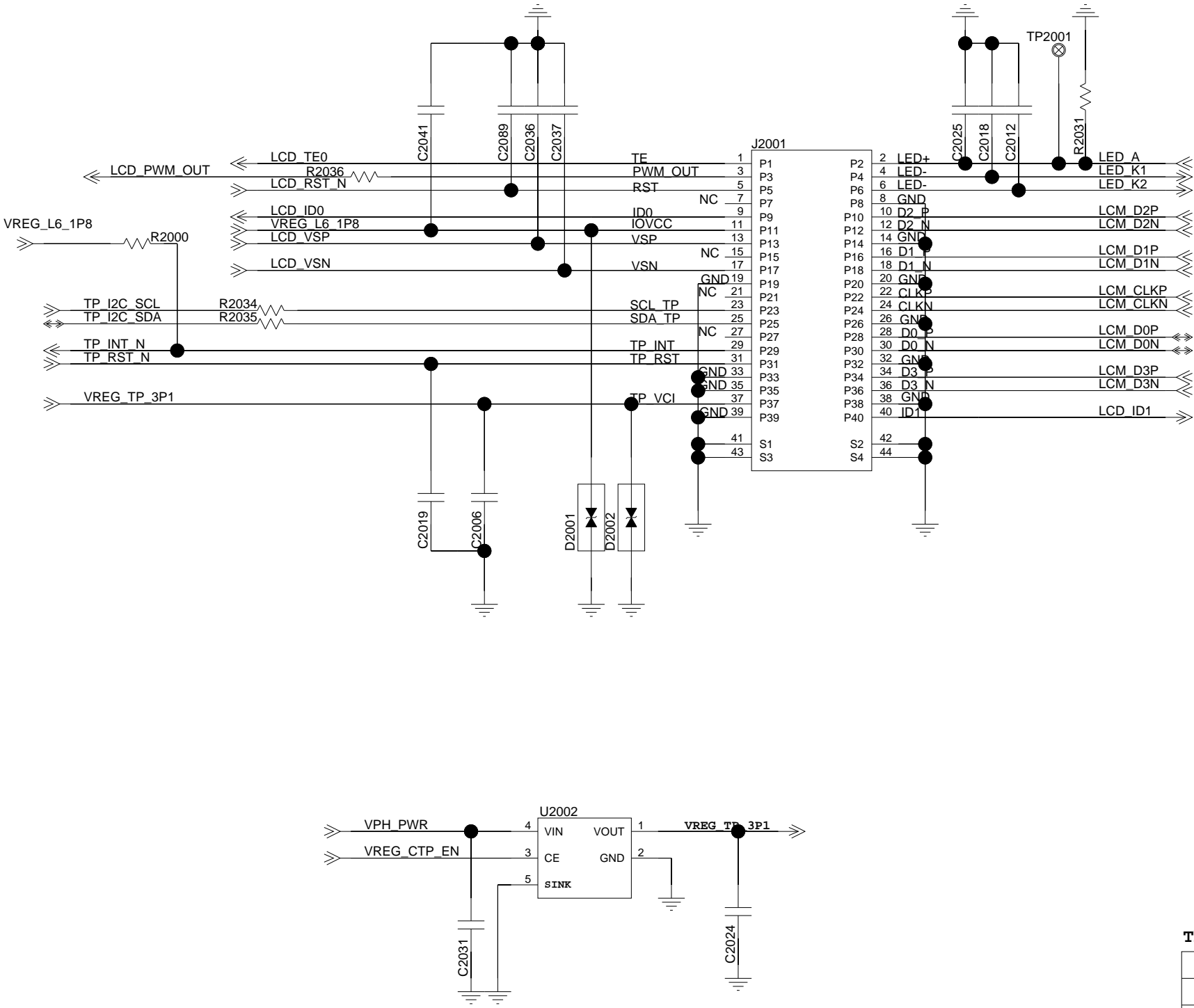
19. Earphone



The type and specification of the components refer to the BOM

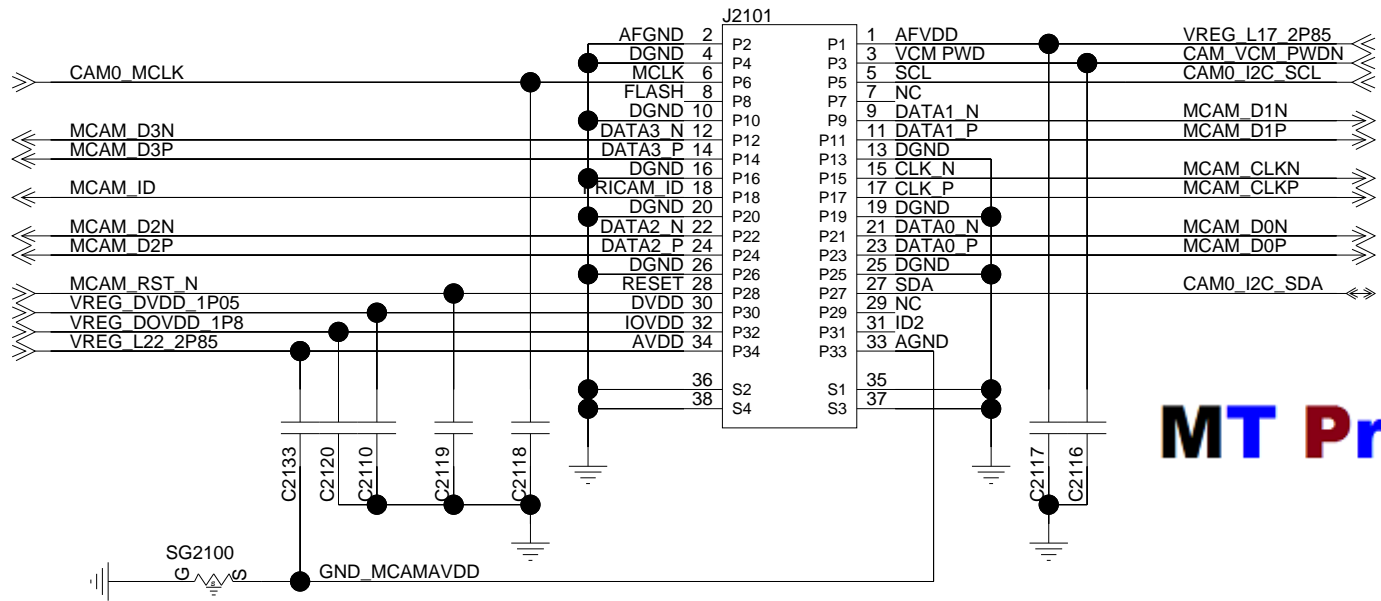
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20. LCD/CTP IF.

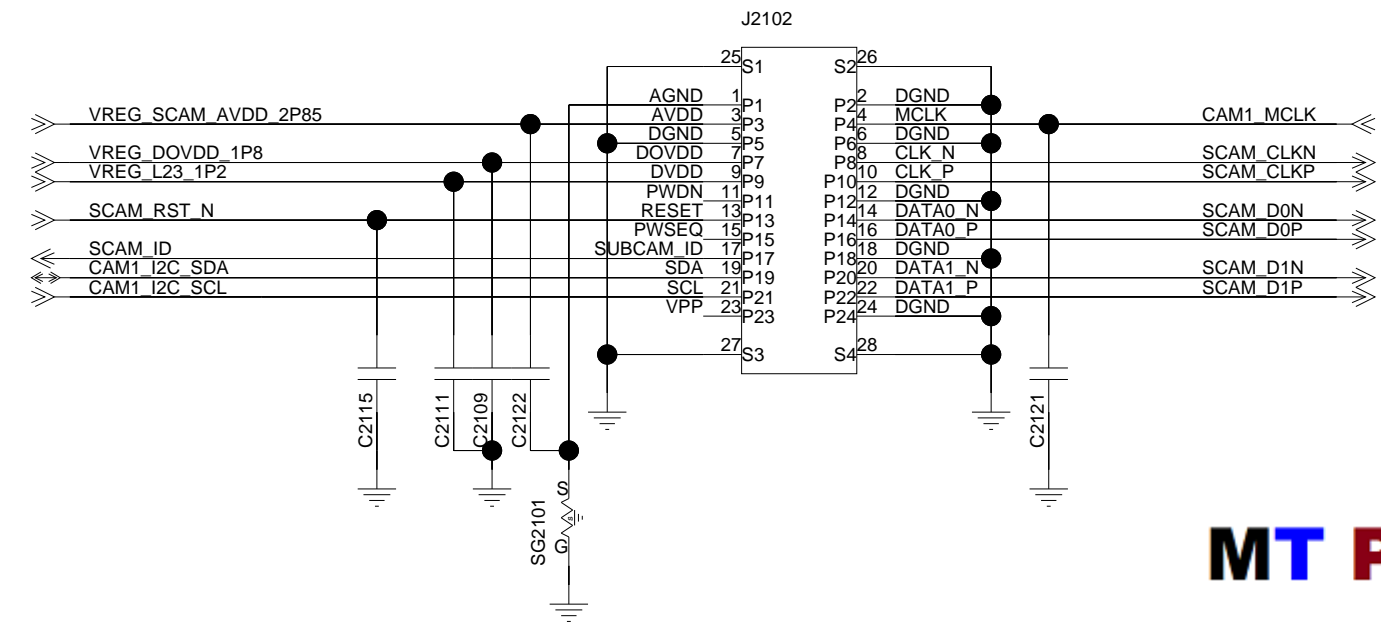


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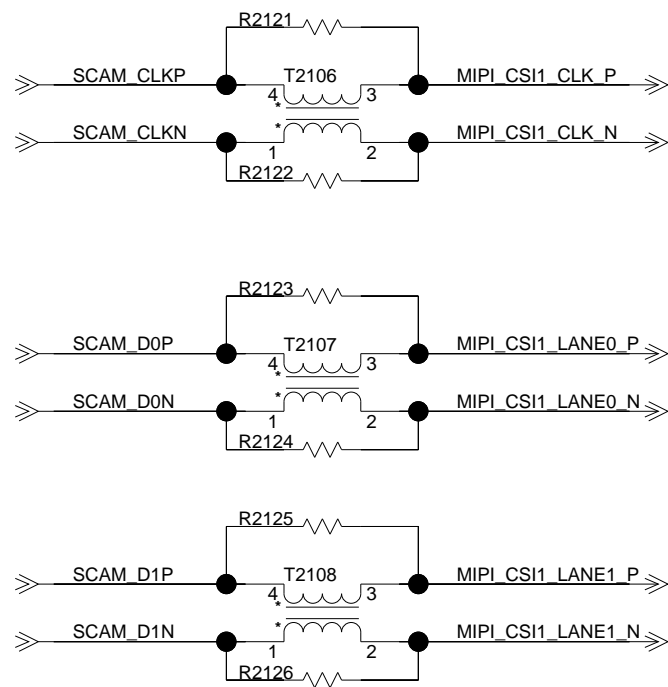
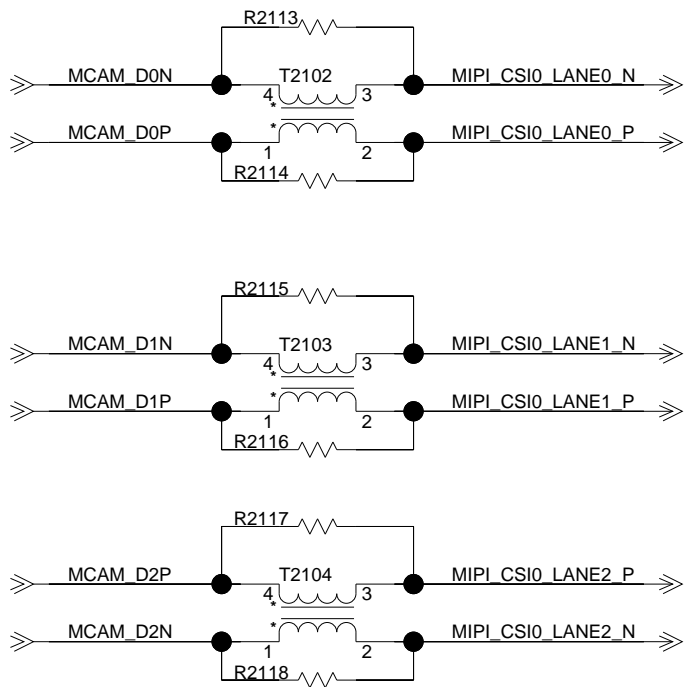
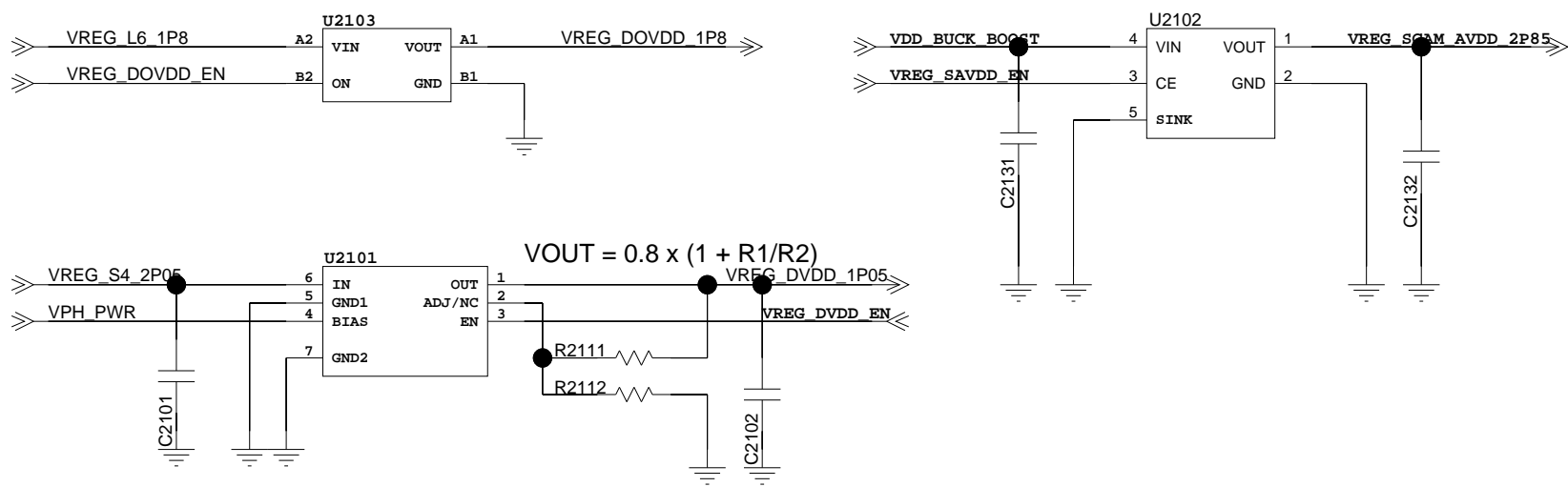
21. Camera IF.



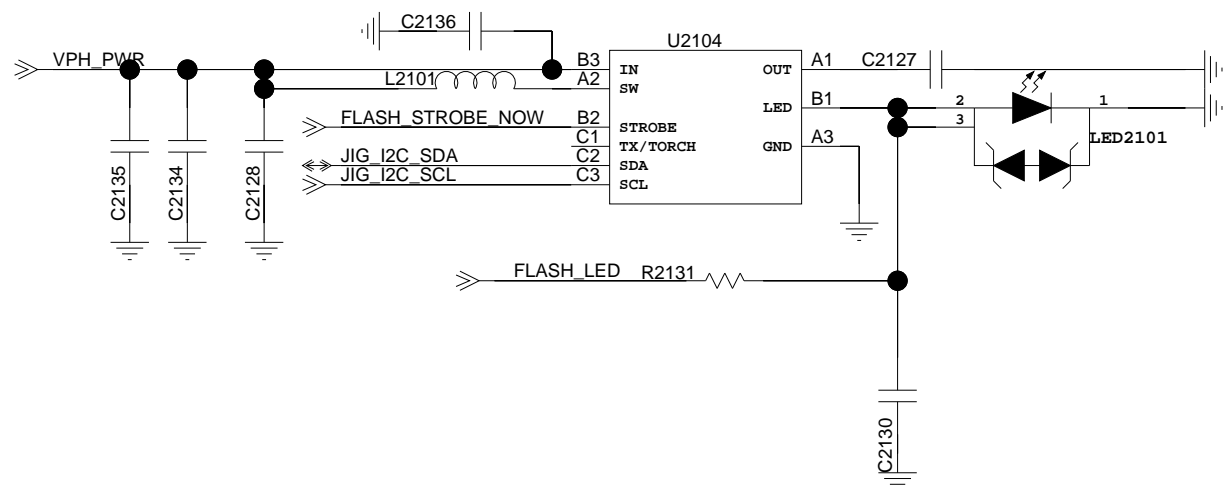
MT Pro



MT Pro



Flash Light

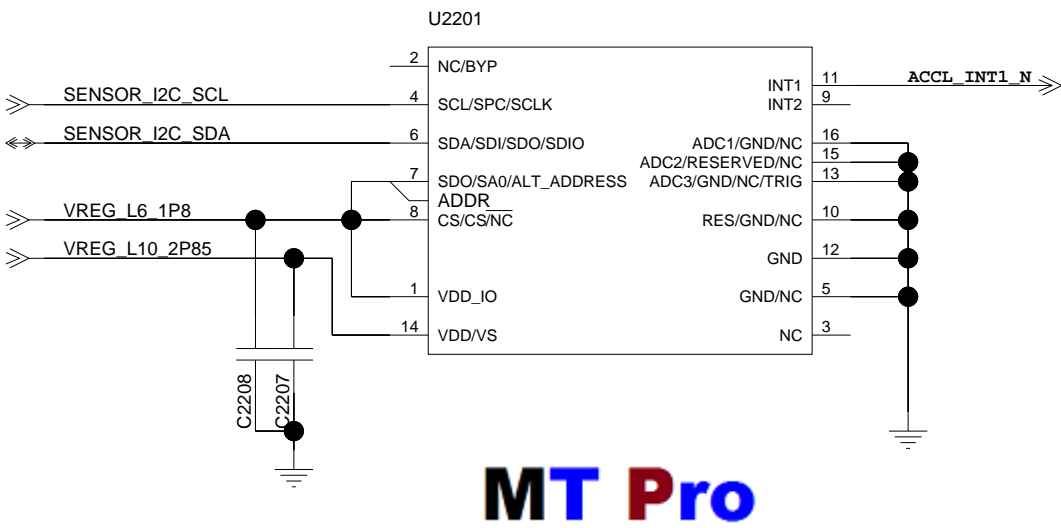


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		D	03023LER	HUAWEI TECH CO.,LTD.	

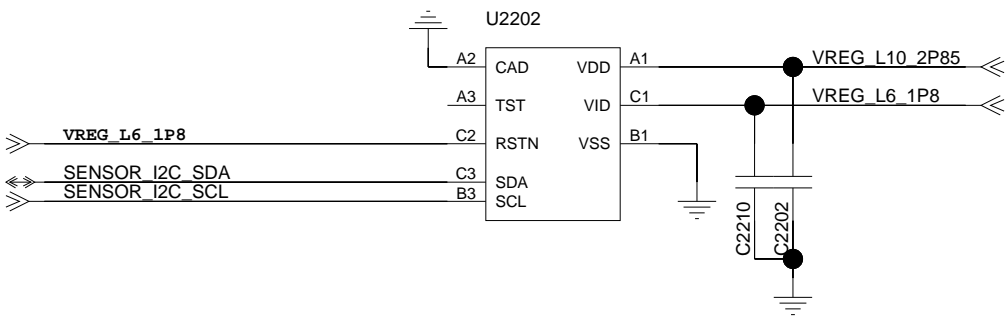
22. Sensor

Accelerometer

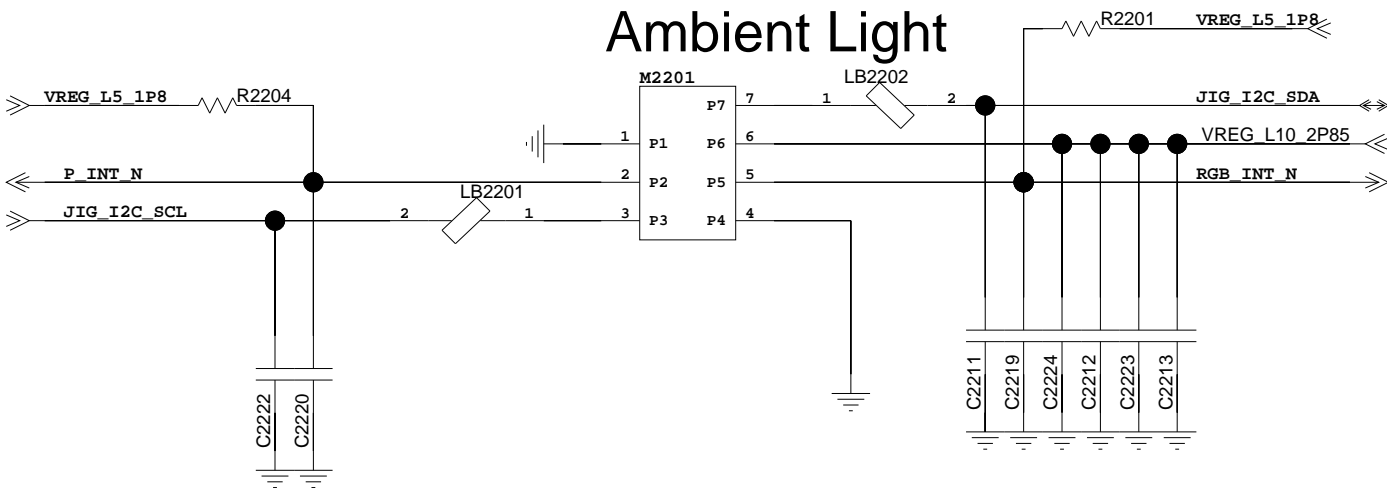


MT Pro

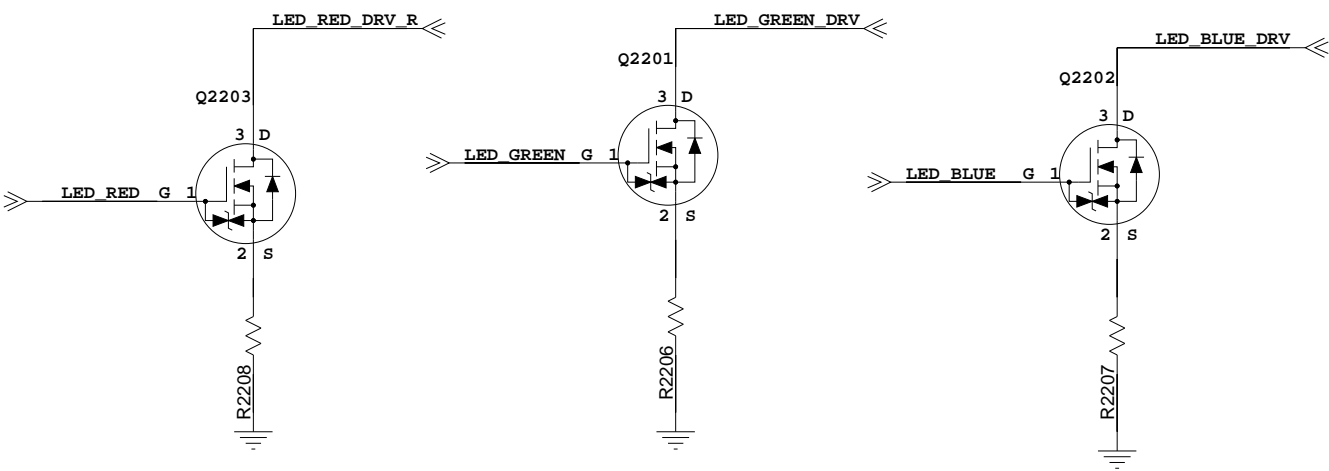
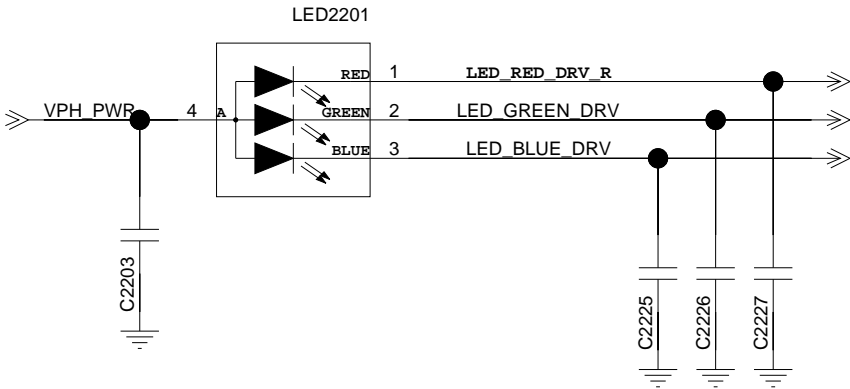
Compass



Ambient Light



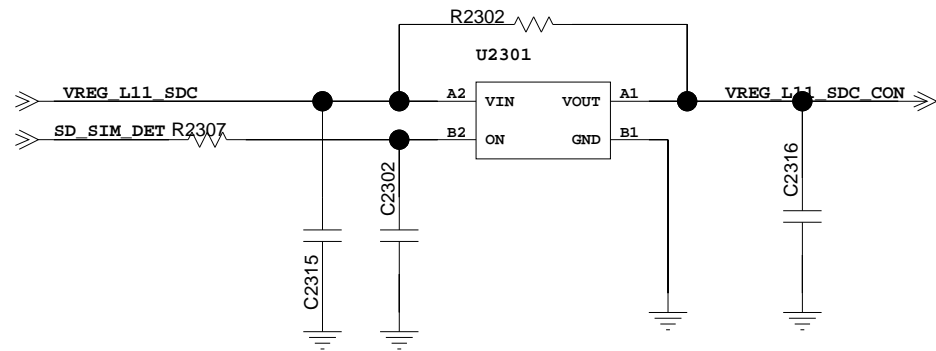
Status indicator



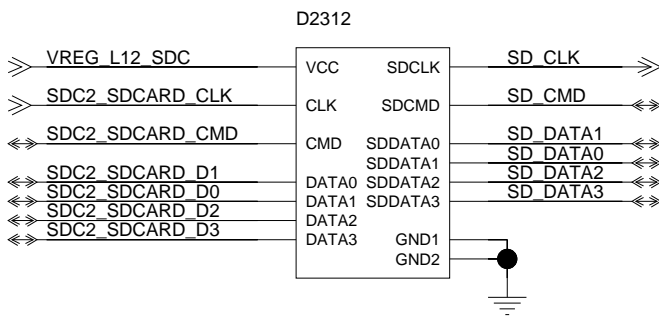
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REVIEWED	JIQING 169846			
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23. SIM/TF IF.



TF Card EMI/ESD

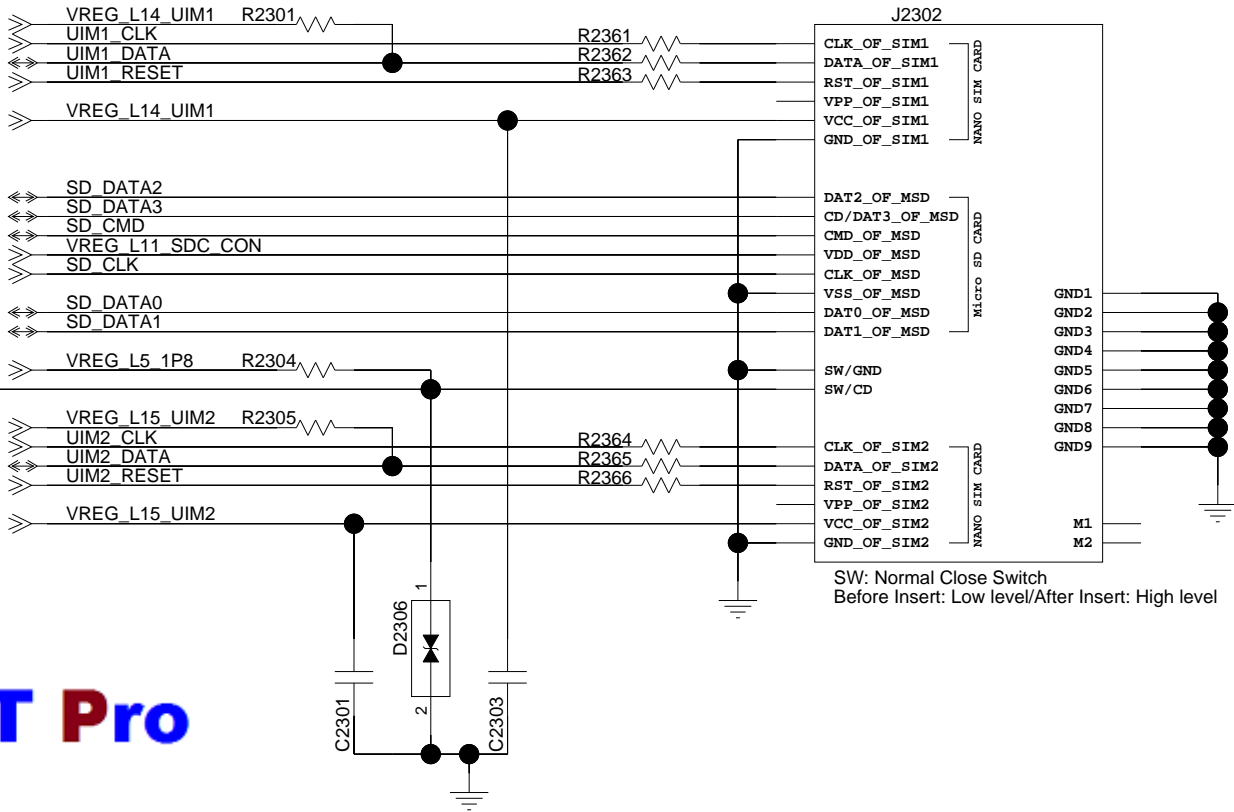


Nano SIM Card 1 TDL/UL/TDS/WCDMA/CDMA/GSM

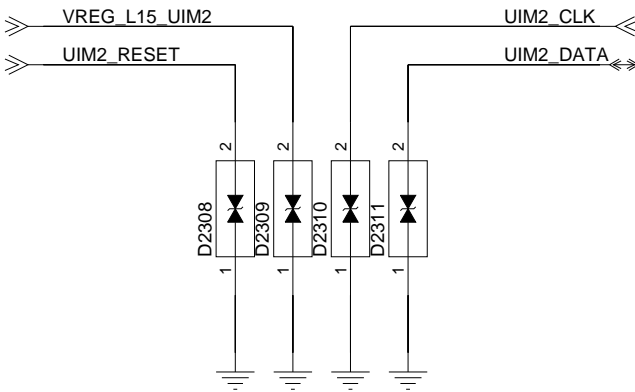
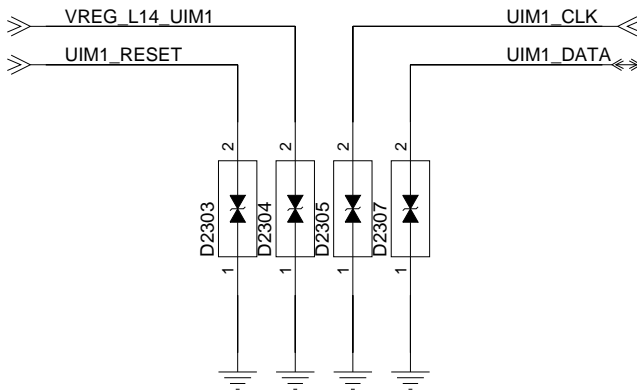
Nano SIM 1

Micro SD

Nano SIM 2



MT Pro

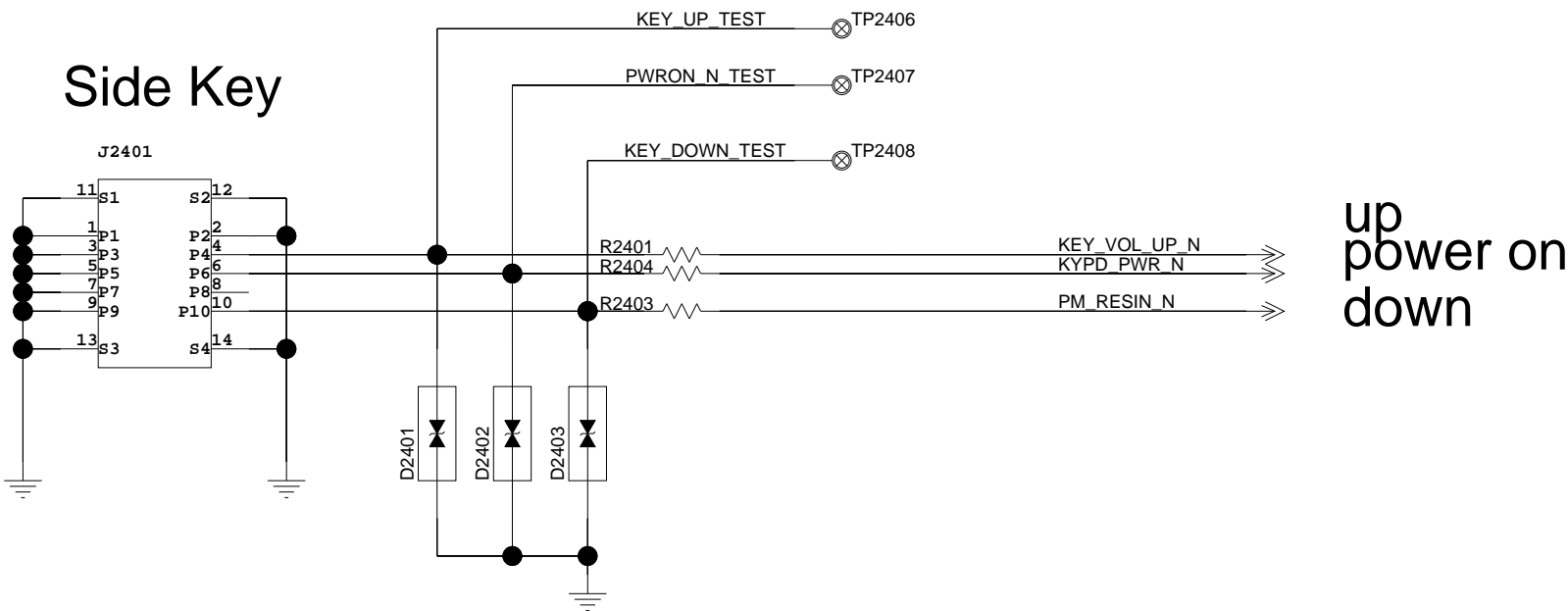


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REVIEWED	JIQING 169846			
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		D	03023LER	HUAWEI TECH CO.,LTD.

24. Sidekey

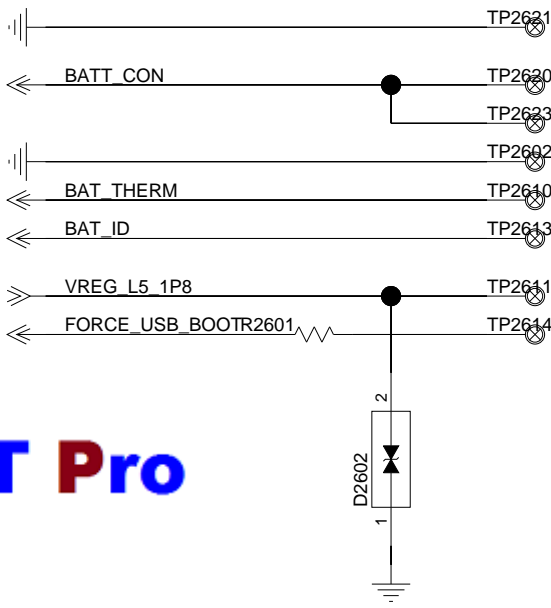
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				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	24_Sidekey 69
		D	03023LER	HUAWEI TECH CO.,LTD.	

26. Test Points

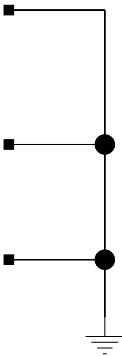
CT BT



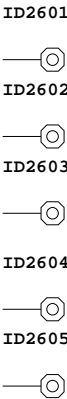
MT Pro

GND springs

upper part



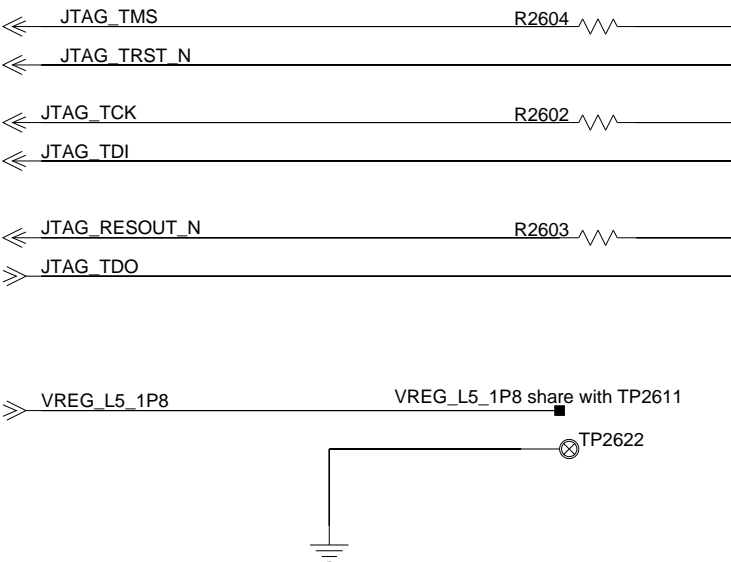
MARK POINT



HOLE



JTAG



R2602,R2603,R2604 for debug

The type and specification of the components refer to the BOM

					26-02-2016_15:36
				N/A	
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	26_Test Points
		D	03023LER	HUAWEI TECH CO.,LTD.	

27. NXP NFC

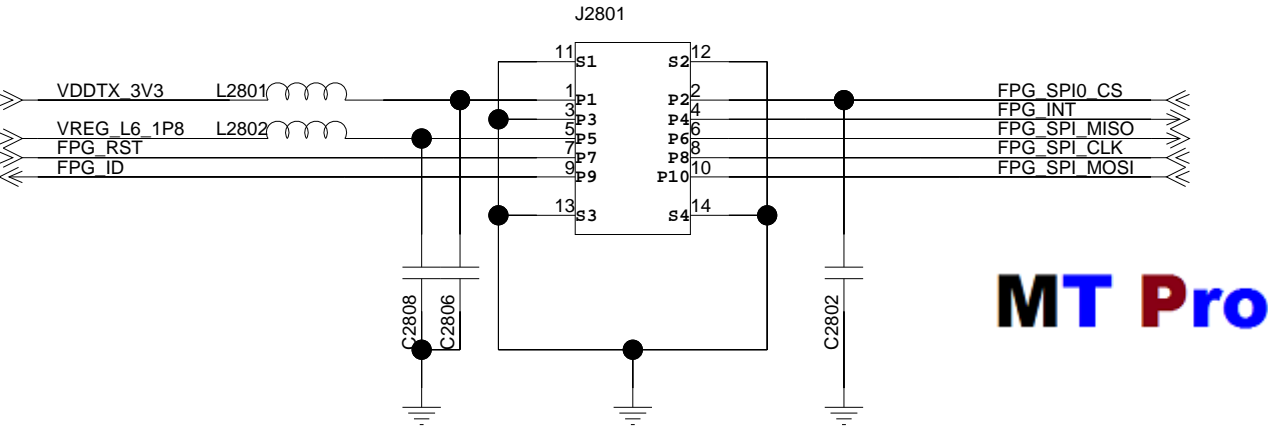


The type and specification of the components refer to the BOM

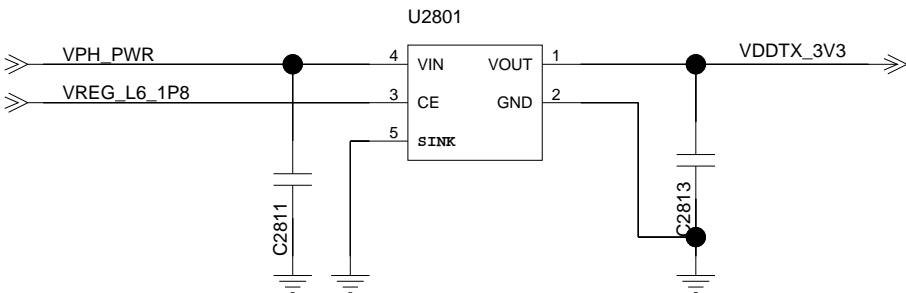
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				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	27 NXP NFC Reserved
		D	03023LER	HUAWEI TECH CO.,LTD.	

28. Fingerprint Module IF.

Fingerprint Sensor BTB



MT Pro

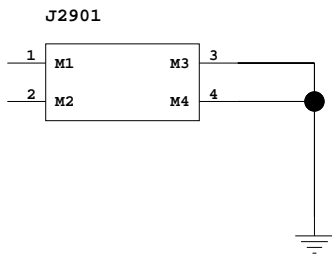


The type and specification of the components refer to the BOM

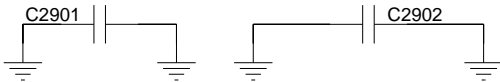
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DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH
REVIEWED	JIQING 169846			
		VER	PART_NUMBER	SHEET 28_Fingerprint Module IF
		D	03023LER	HUAWEI TECH CO.,LTD.

29. Shielding

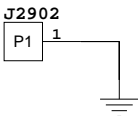
Sub camera socket



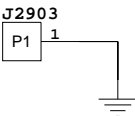
MT Pro



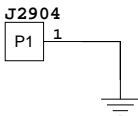
WCN_Shielding



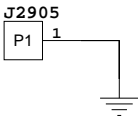
ANT_Shielding



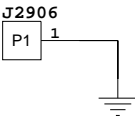
PA_Shielding



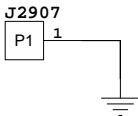
RF_Shielding



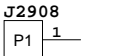
CPU_Shielding



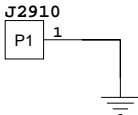
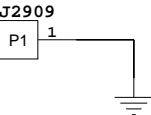
PMU_Shielding



Tunner_Shielding



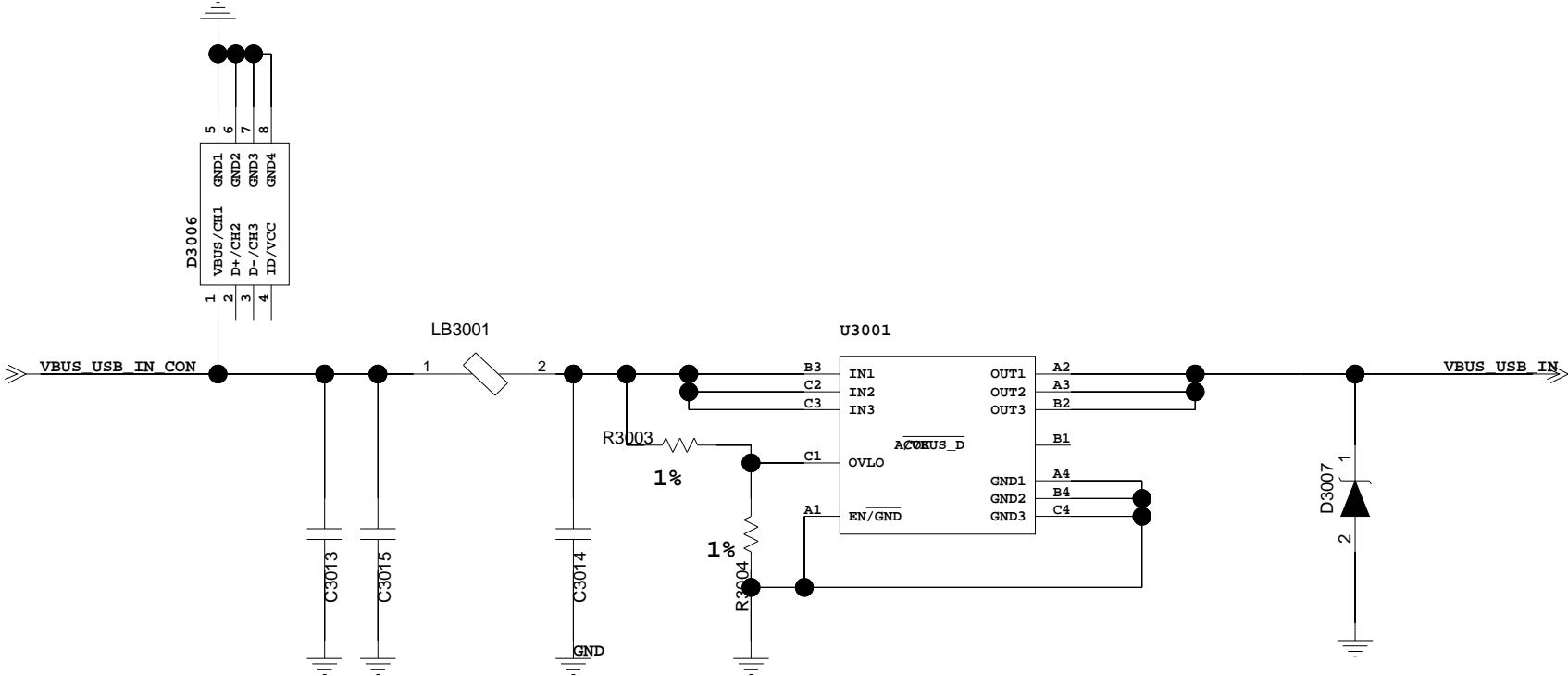
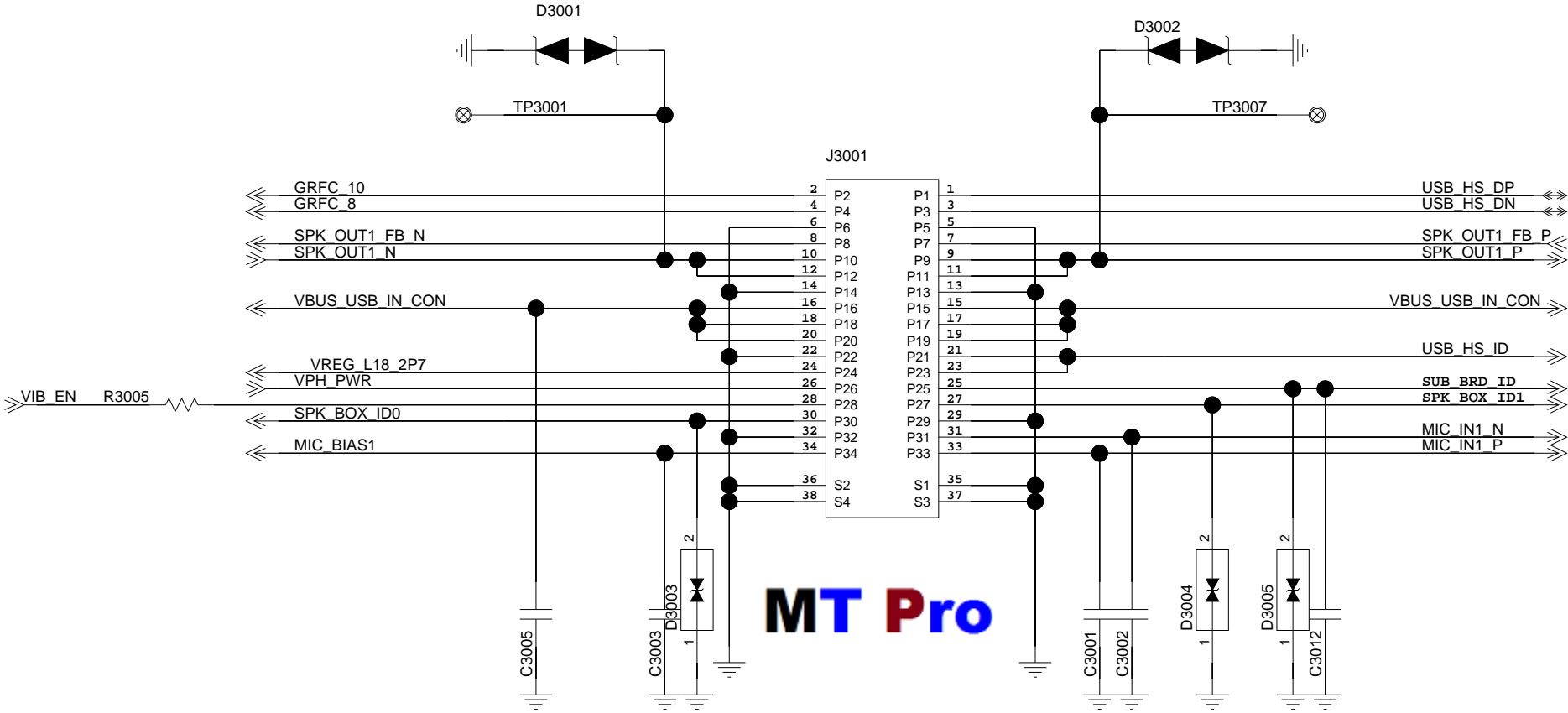
RLC_Shielding



The type and specification of the components refer to the BOM

					26-02-2016_15:39
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				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	29_Shielding
		D	03023LER	HUAWEI TECH CO.,LTD.	

30. Sub PCB IF.



Vovlo_th=1.2V(min:1.12,default:1.2,max:1.24)
OVP=1.2*(1+R3003/R3004)=6.258V

The type and specification of the components refer to the BOM

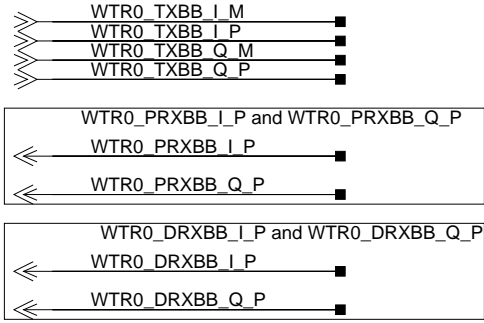
				N/A	2015-12-15
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET 30_SubPCBIF	
		D	03023LER	HUAWEI TECH CO.,LTD.	

31.RF Interface

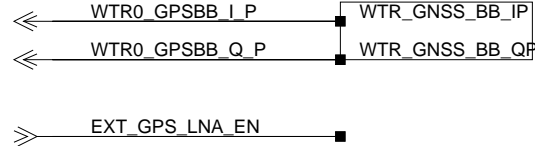


32. GSM/CDMA 1X (Voice) Antenna Switch
33. LTE/UMTS/TD/GSM Antenna Switcher
- 34.backup
- 35.backup
36. CDMA BC0(Voice) TRX
37. MMMBPA
38. MATCHING CIRCUIT of MMMBPA
39. TRX_LTE/UMTS_B1
40. TRX_UMTS_B2
41. TRX_UMTS_B5
42. TRX_LTE_B3
43. RX_GSM900
44. backup
45. backup
46. backup
47. TRX_TDD_B41
48. TRX_TDD_B40
49. TDL_RX Switch_B41/B40
50. backup
51. backup
52. backup
53. backup
54. WTR2605 CIRCUIT
55. WTR2605 POWER DISTRIBUTION
- 56.WTR1605L
57. WTR 1605L PWR
58. ET_APT
59. GPS
60. WCN3620 BB
61. WCN3620 RF
62. backup
- 63.backup
64. DRX_LTE_B1_B3
65. DRX_LTE_B40_B41
66. backup
- 67.ANTENNA
- 68.CABLE

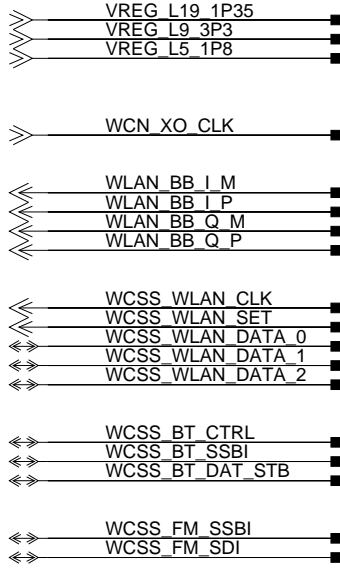
WTR0 RF Interface



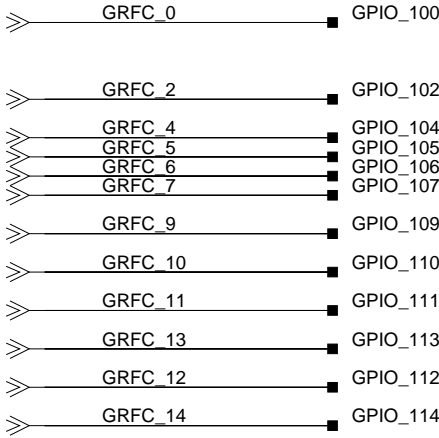
WTR0 GPS Interface



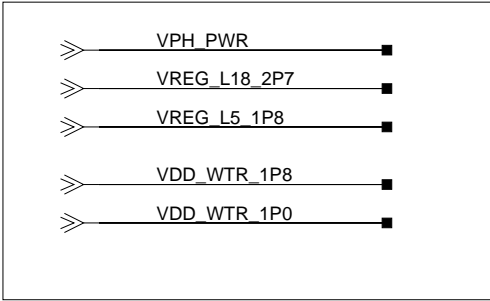
WCN Interface



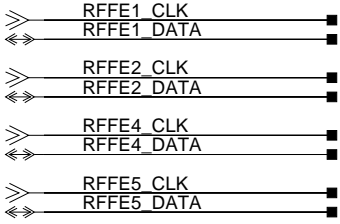
GPIO Interface



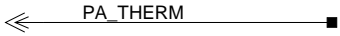
PWR Interface



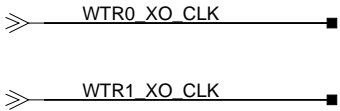
MIPI Interface



PA temperature

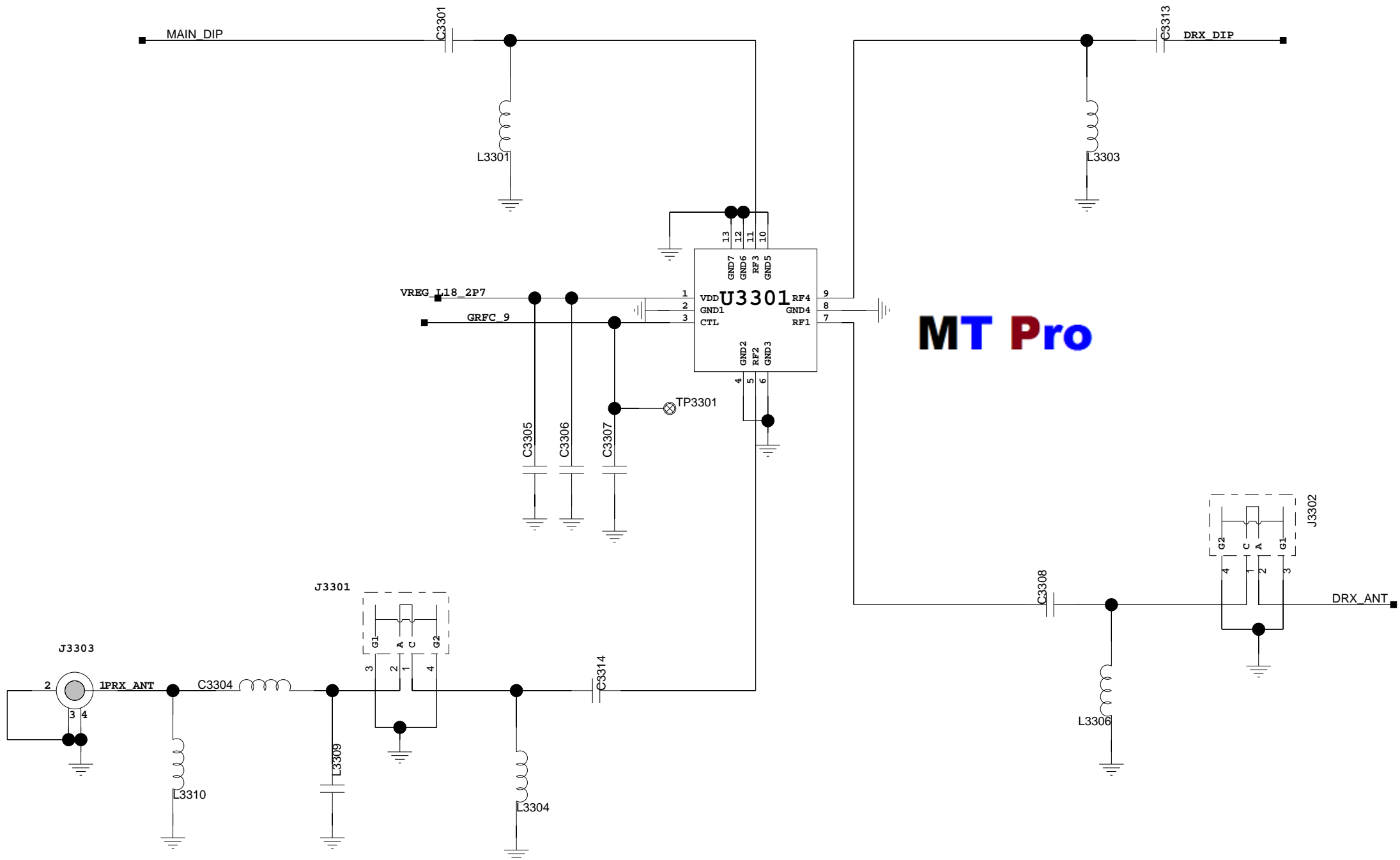


Clock Interface



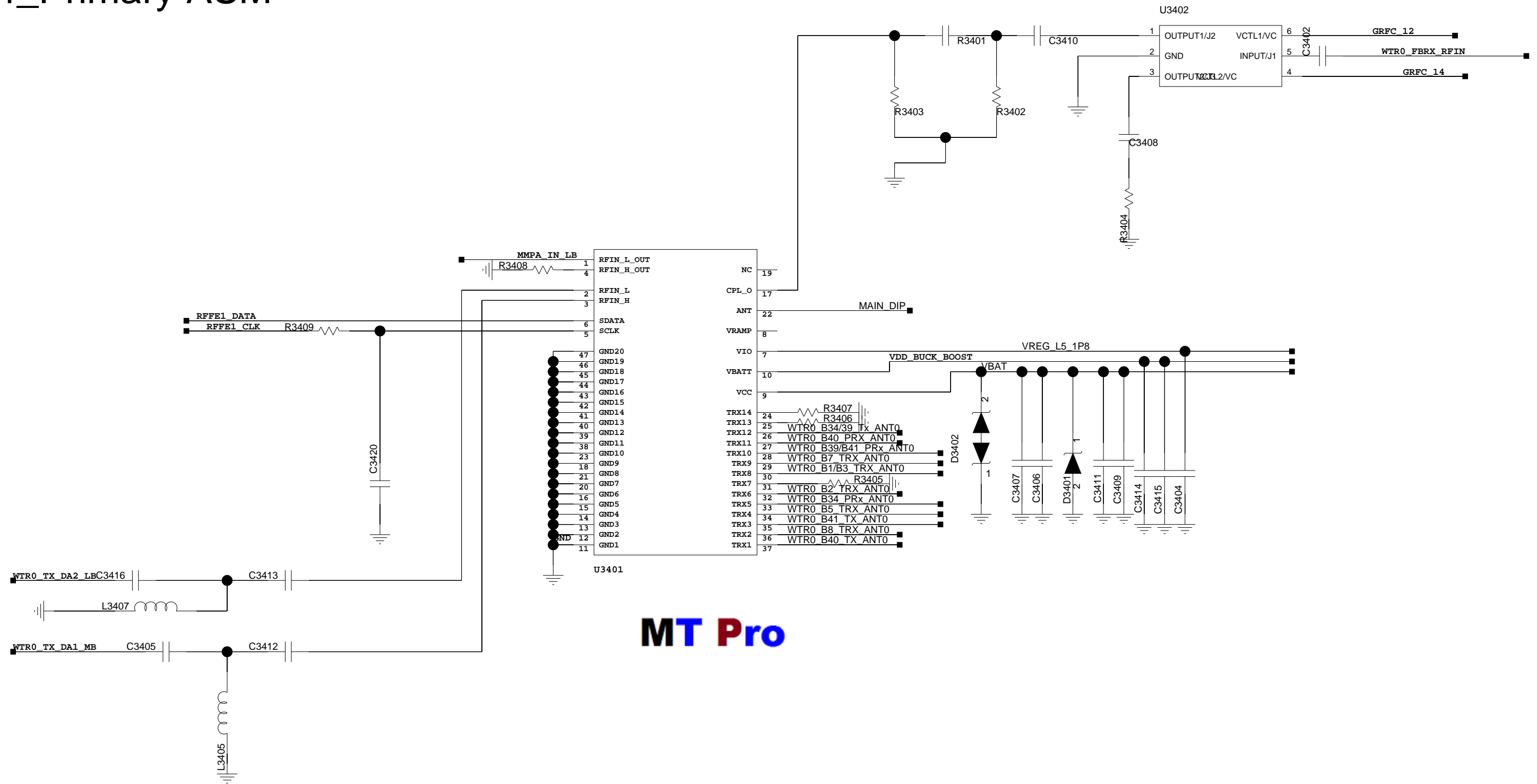
The type and specification of the components refer to the BOM

				ECA NO	2015-10-28
				DATE	
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	31_RPInterface
		D	03023LER	HUAWEI TECH CO.,LTD.	



The type and specification of the components refer to the BOM					
					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	33_ASDIV SWITCHS
		D	03023LER	HUAWEI TECH CO.,LTD.	

34_Primary ASM



The type and specification of the components refer to the BOM

					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	34 Primary ASM_RF5216A
		D	03023LER	HUAWEI TECH CO.,LTD.	



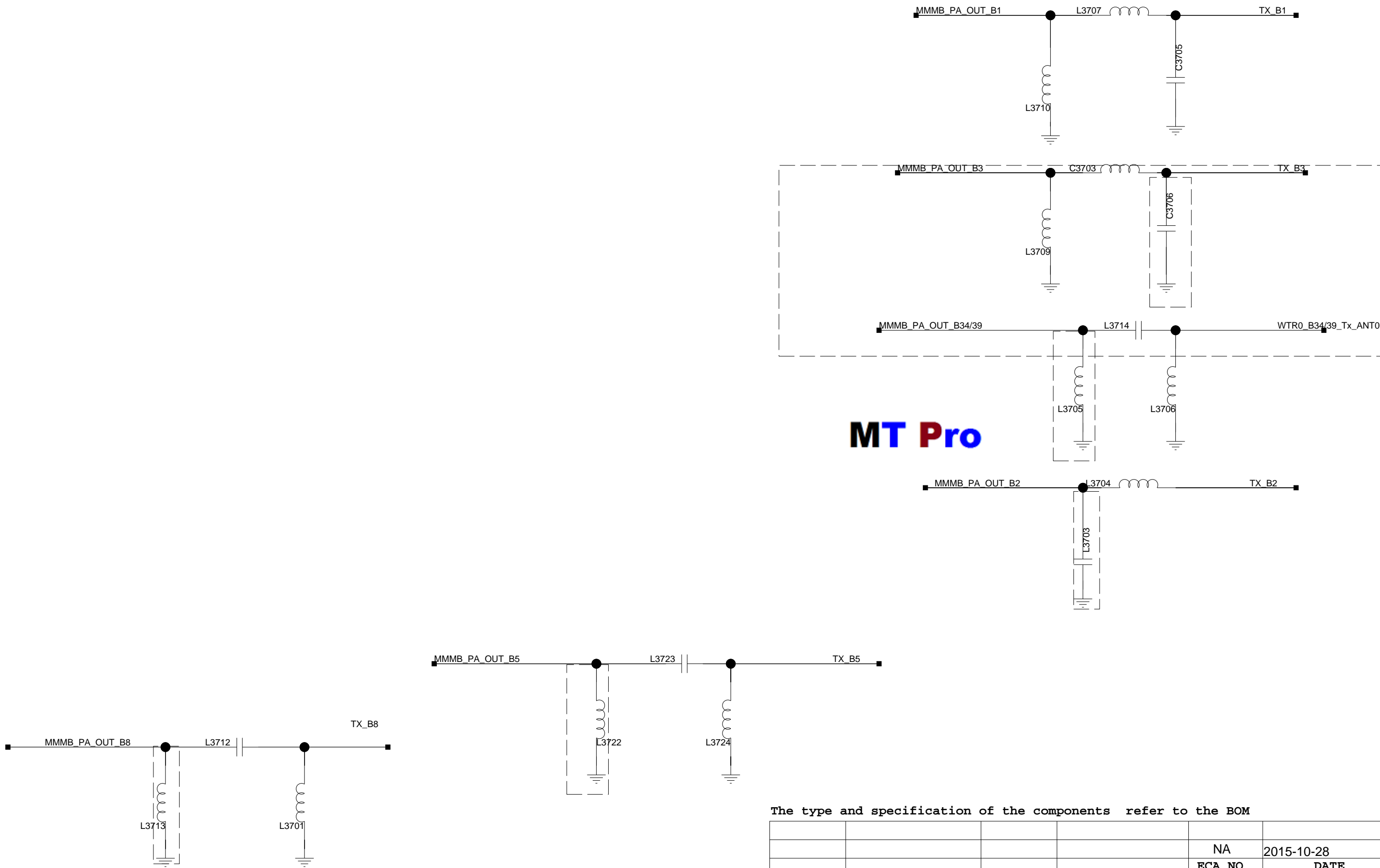
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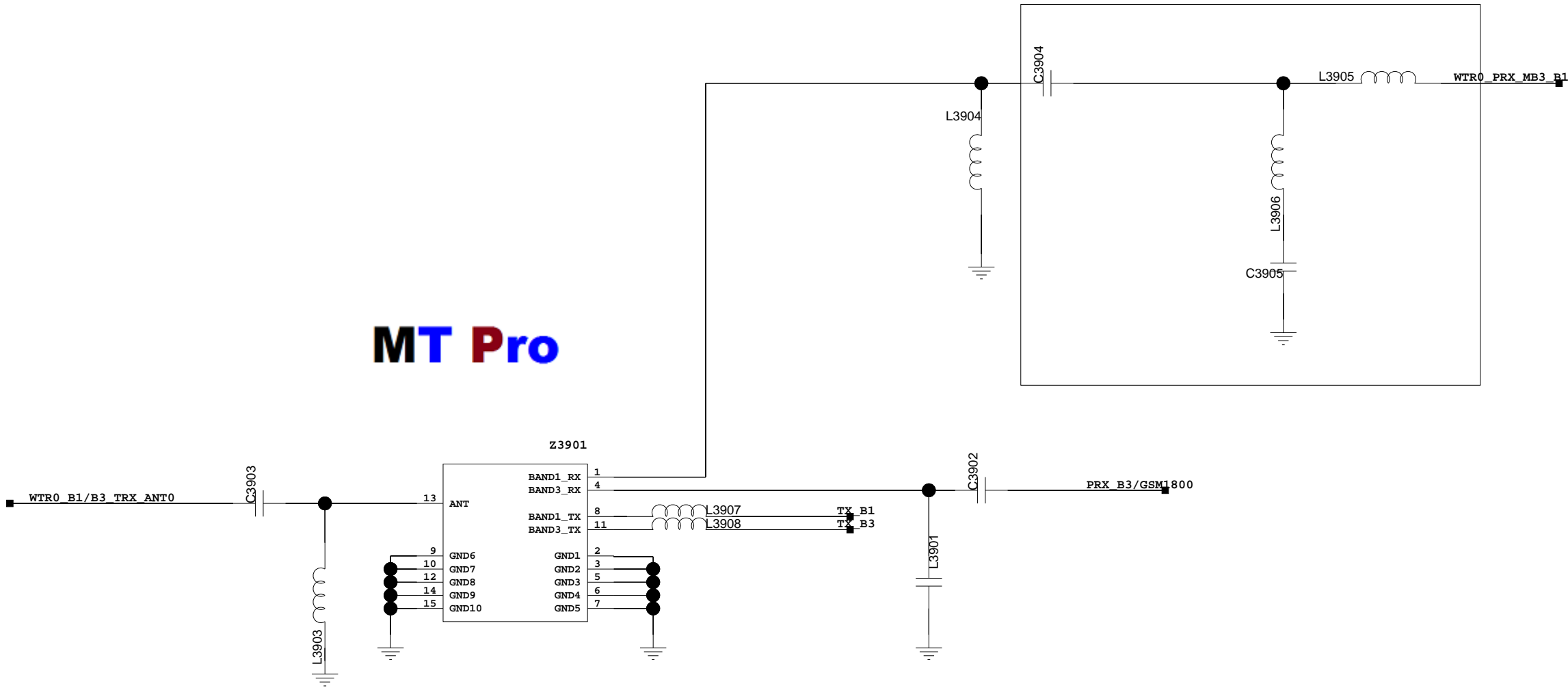
D

D

37_MATCHING_CIRCUIT_of_MMMBPA

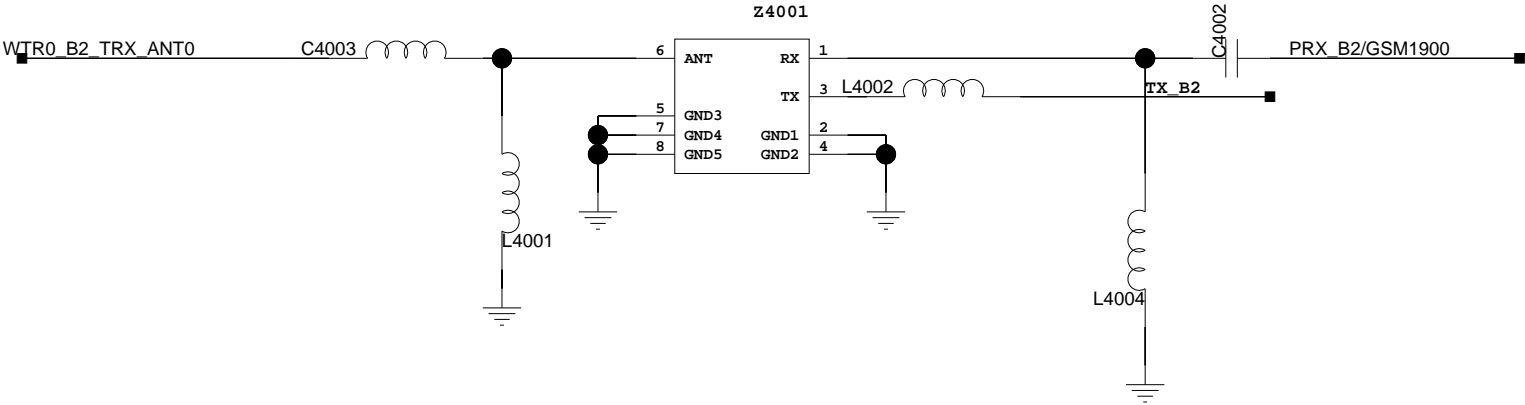


The type and specification of the components refer to the BOM					
				NA	2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	37_MATCHING_CIRCUIT_of_MMMBPA
		D	03023LER	HUAWEI TECH CO.,LTD.	



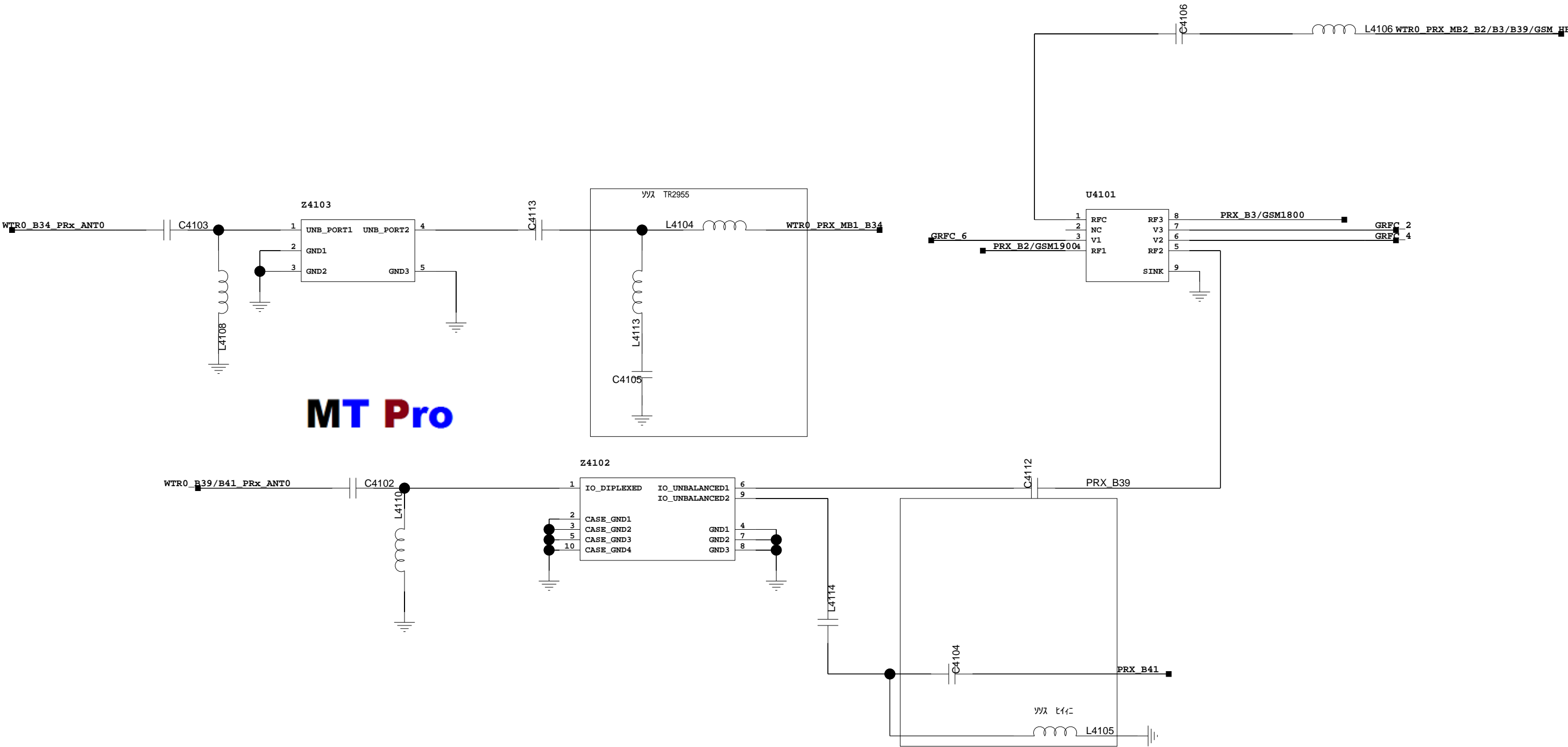
The type and specification of the components refer to the BOM					
					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET 39_TRX B1/B3	
		D	03023LER	HUAWEI TECH CO.,LTD.	

MT Pro



The type and specification of the components refer to the BOM

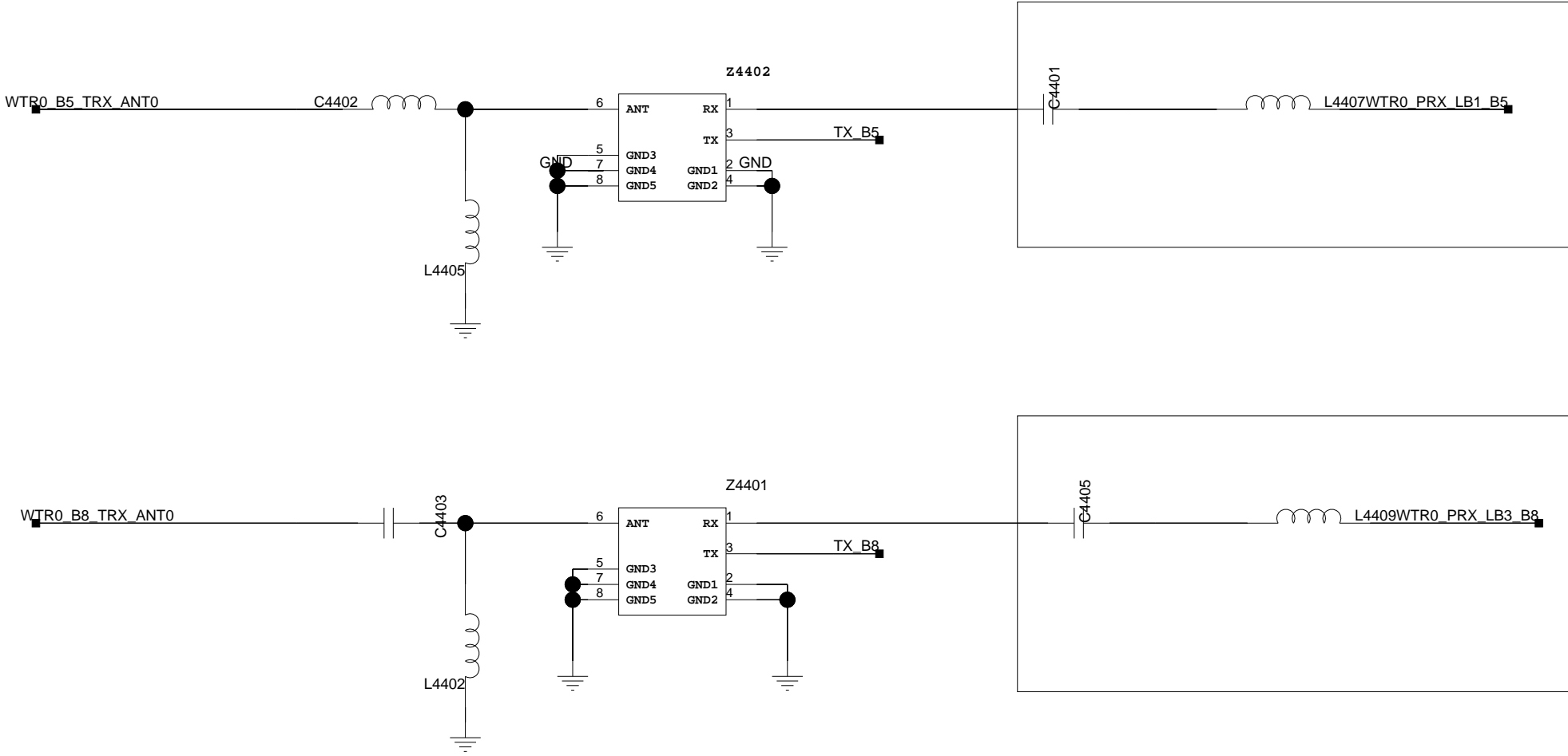
				ECA NO	2015-10-28
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	40_TRX B2/GSM1900
		D	03023LER	HUAWEI TECH CO.,LTD.	



MT Pro

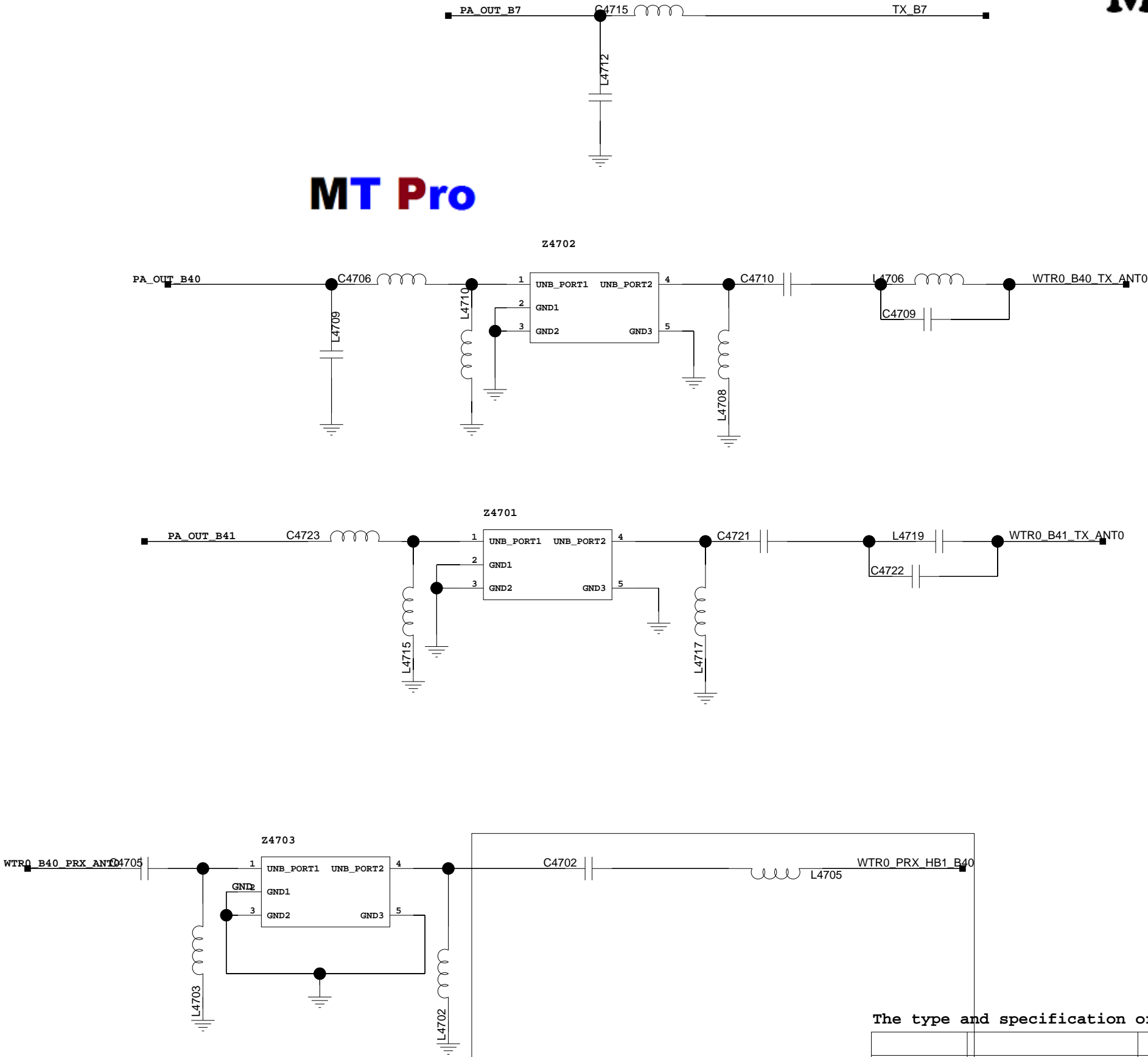
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					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	41_TRX B34/39/41
		D	03023LER	HUAWEI TECH CO.,LTD.	

MT Pro



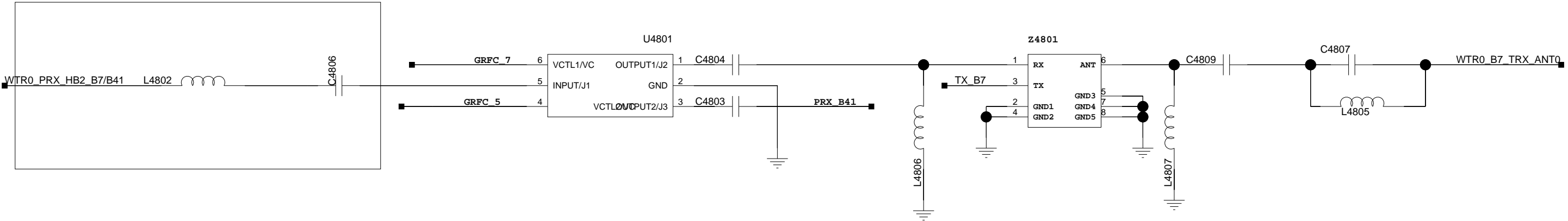
The type and specification of the components refer to the BOM					
				ECA NO	2015-10-28
				DATE	
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	44_TRX B5/89
		D	03023LER	HUAWEI TECH CO.,LTD.	

MT Pro



The type and specification of the components refer to the BOM					
					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	47_TRX B40/B7/B41
		D	03023LER	HUAWEI TECH CO.,LTD.	

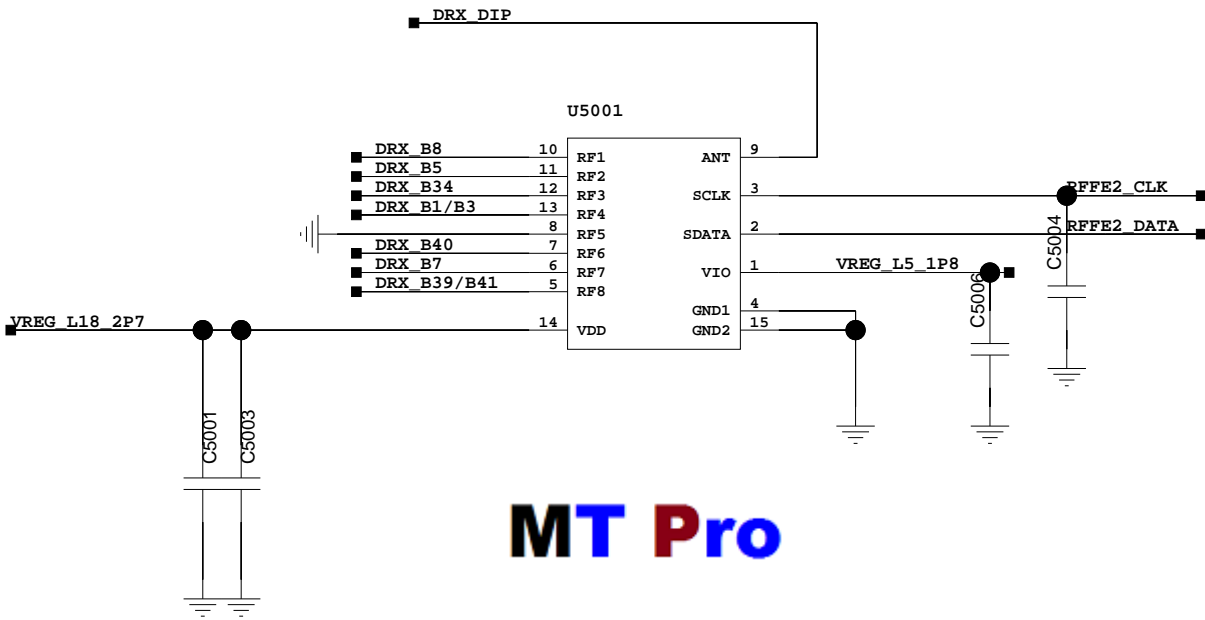
MT Pro



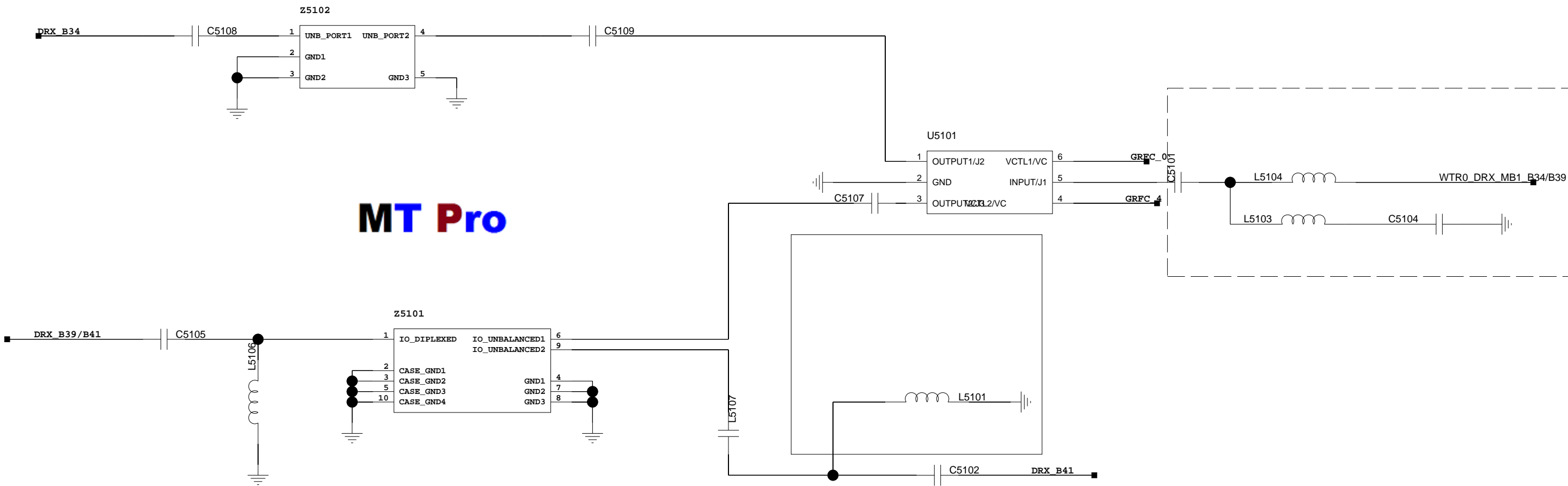
The type and specification of the components refer to the BOM

					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	48_TRX B7 69
		D	03023LER	HUAWEI TECH CO.,LTD.	

50_DRX_ANT_SWITCH

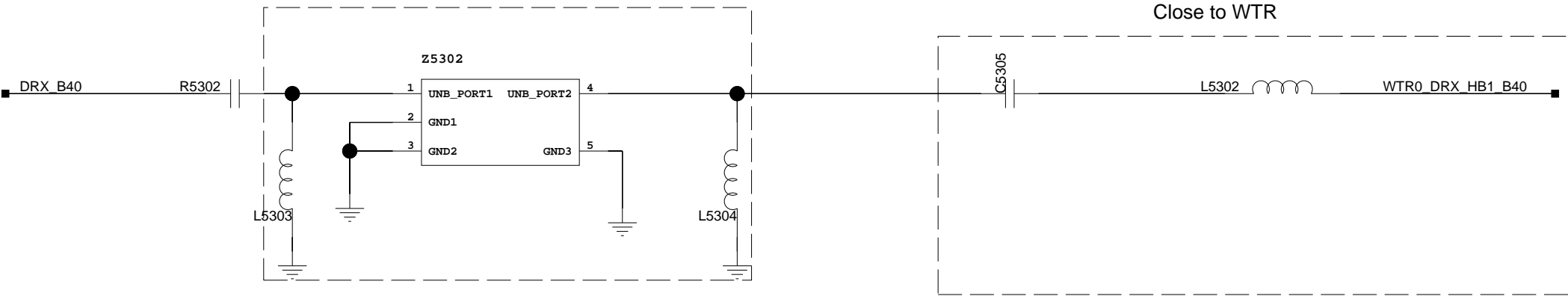
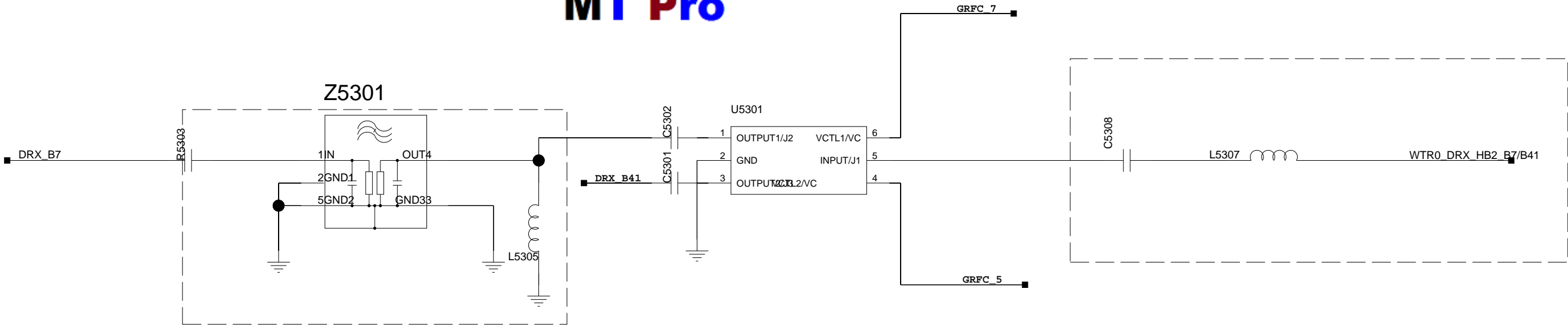


The type and specification of the components refer to the BOM					
				ECA NO	2015-10-28
				DATE	
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	50_Diversity GSM
		D	03023LER	HUAWEI TECH CO.,LTD.	



The type and specification of the components refer to the BOM					
					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	51_DRX B34/B39/B41
		D	03023LER	HUAWEI TECH CO.,LTD.	

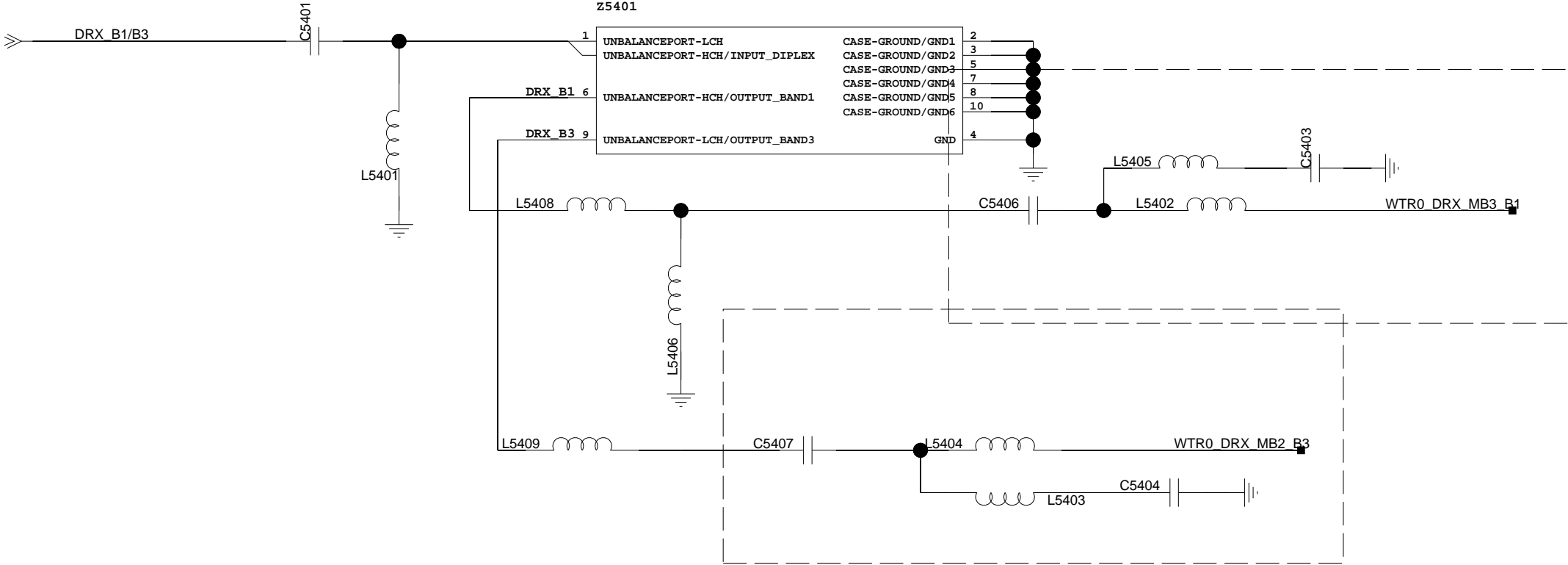
MT Pro



The type and specification of the components refer to the BOM

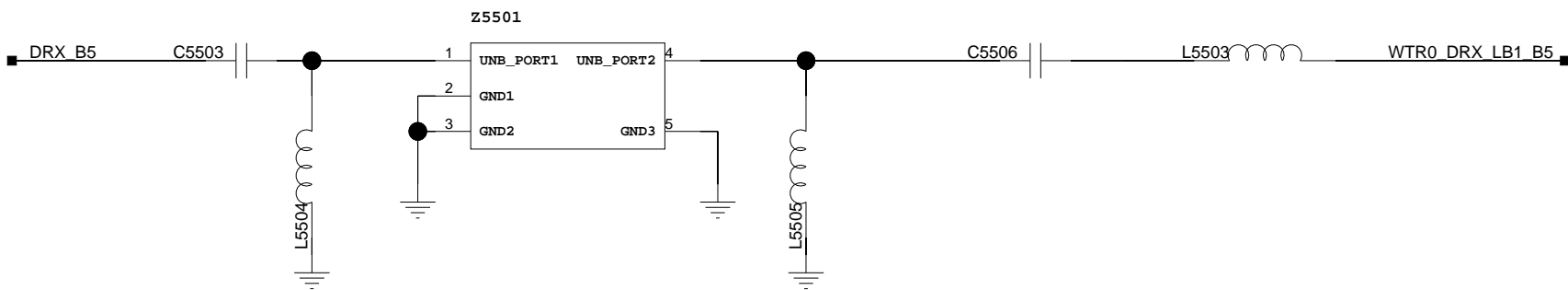
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DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	53_DRX_B40/7
		D	03023LER	HUAWEI TECH CO.,LTD.	

MT Pro

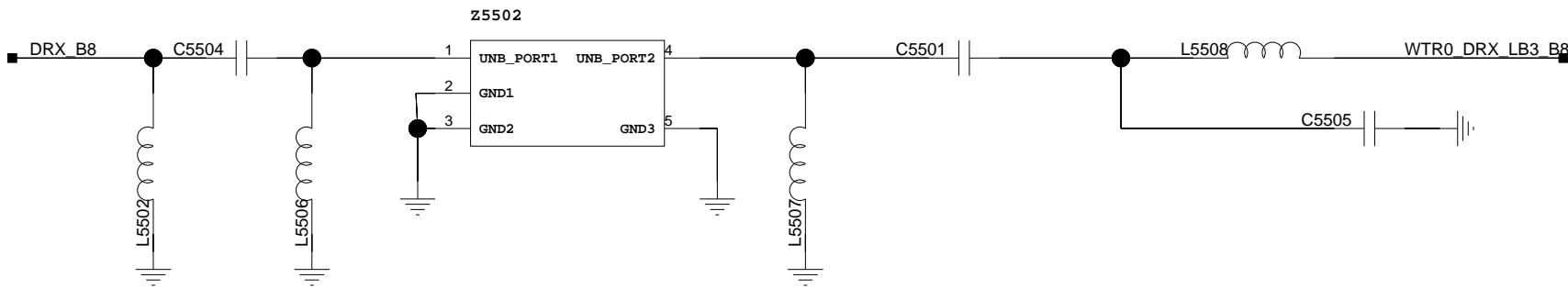


The type and specification of the components refer to the BOM

				ECA NO	2015-10-28
				DATE	
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	54_DRX B1/2/3/4
		D	03023LER	HUAWEI TECH CO.,LTD.	



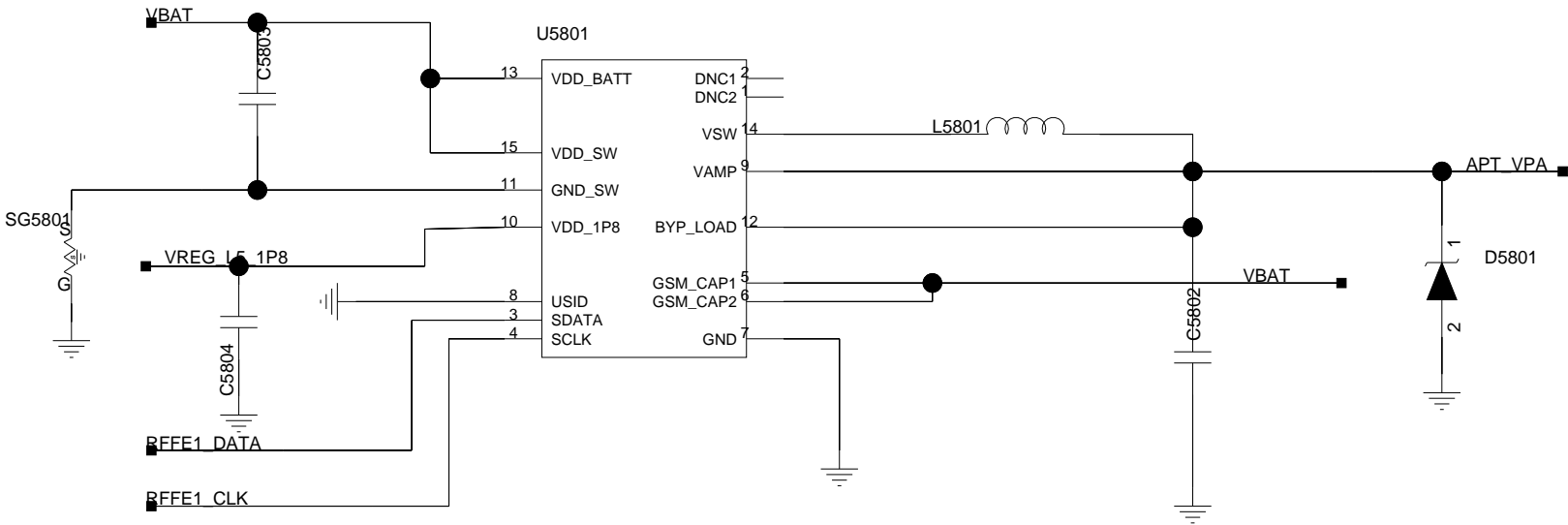
MT Pro



The type and specification of the components refer to the BOM

				N/A	2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET 55_DRX B5/8	
		D	03023LER	HUAWEI TECH CO.,LTD.	

MT Pro



The type and specification of the components refer to the BOM					
					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	58_ET_APT69
		D	03023LER	HUAWEI TECH CO.,LTD.	

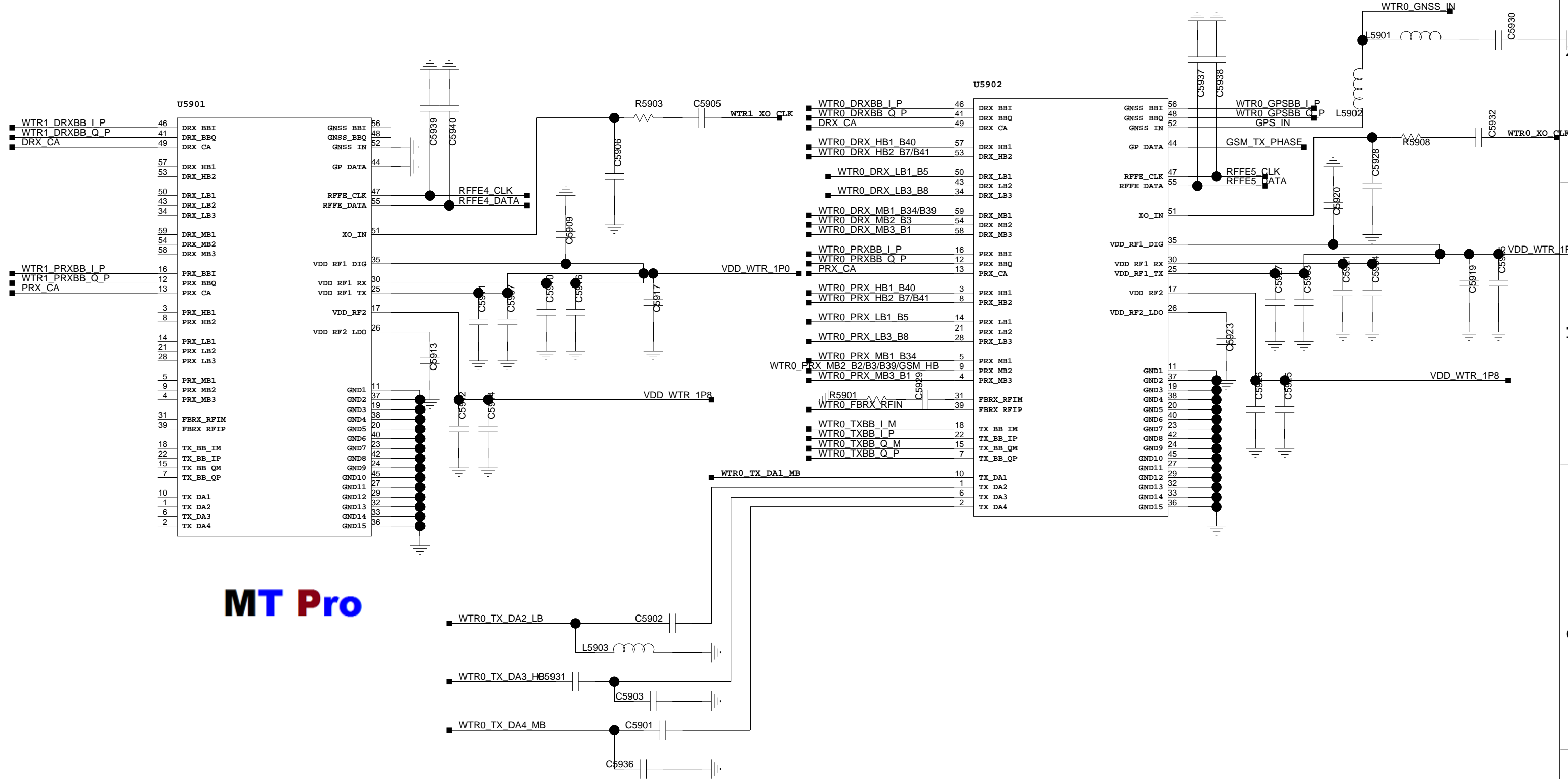
59_WTR2955

A

B

C

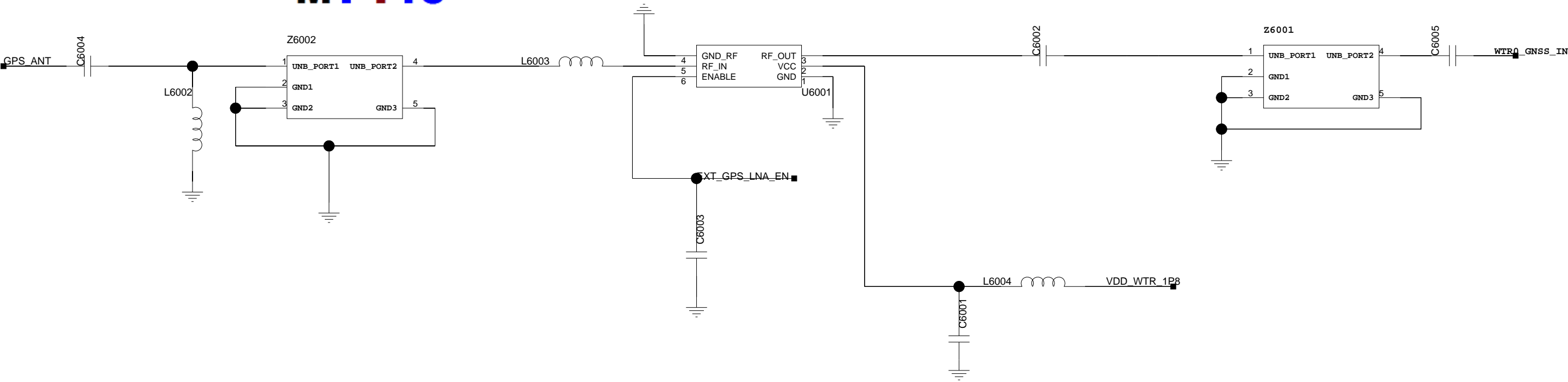
D



MT Pro

The type and specification of the components refer to the BOM					
					2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	59_WTR2955
		D	03023LER	HUAWEI TECH CO.,LTD.	

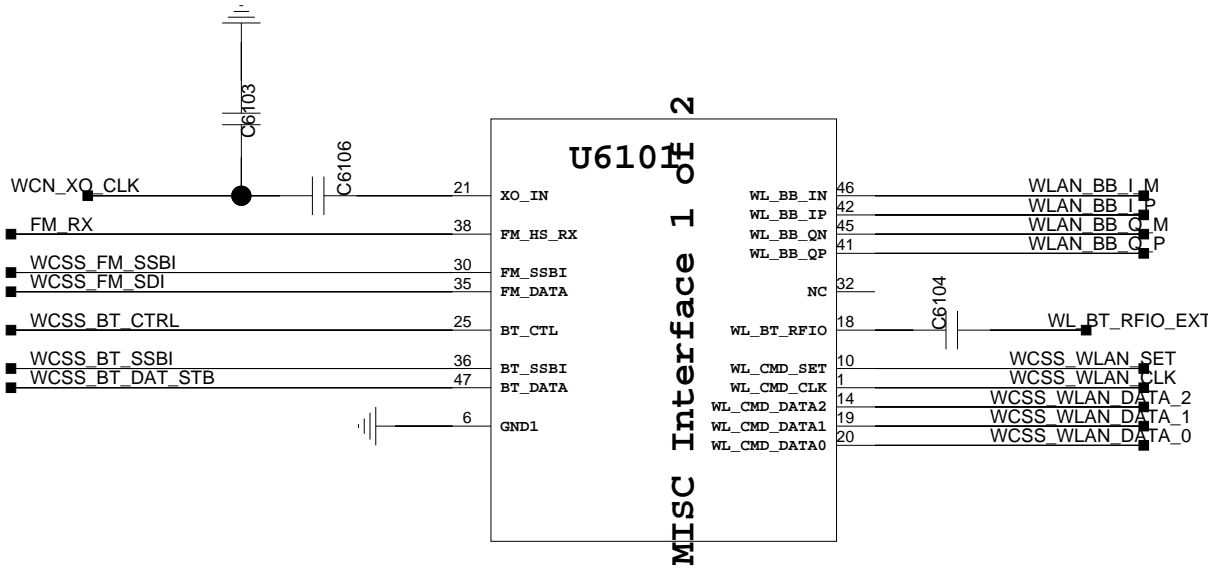
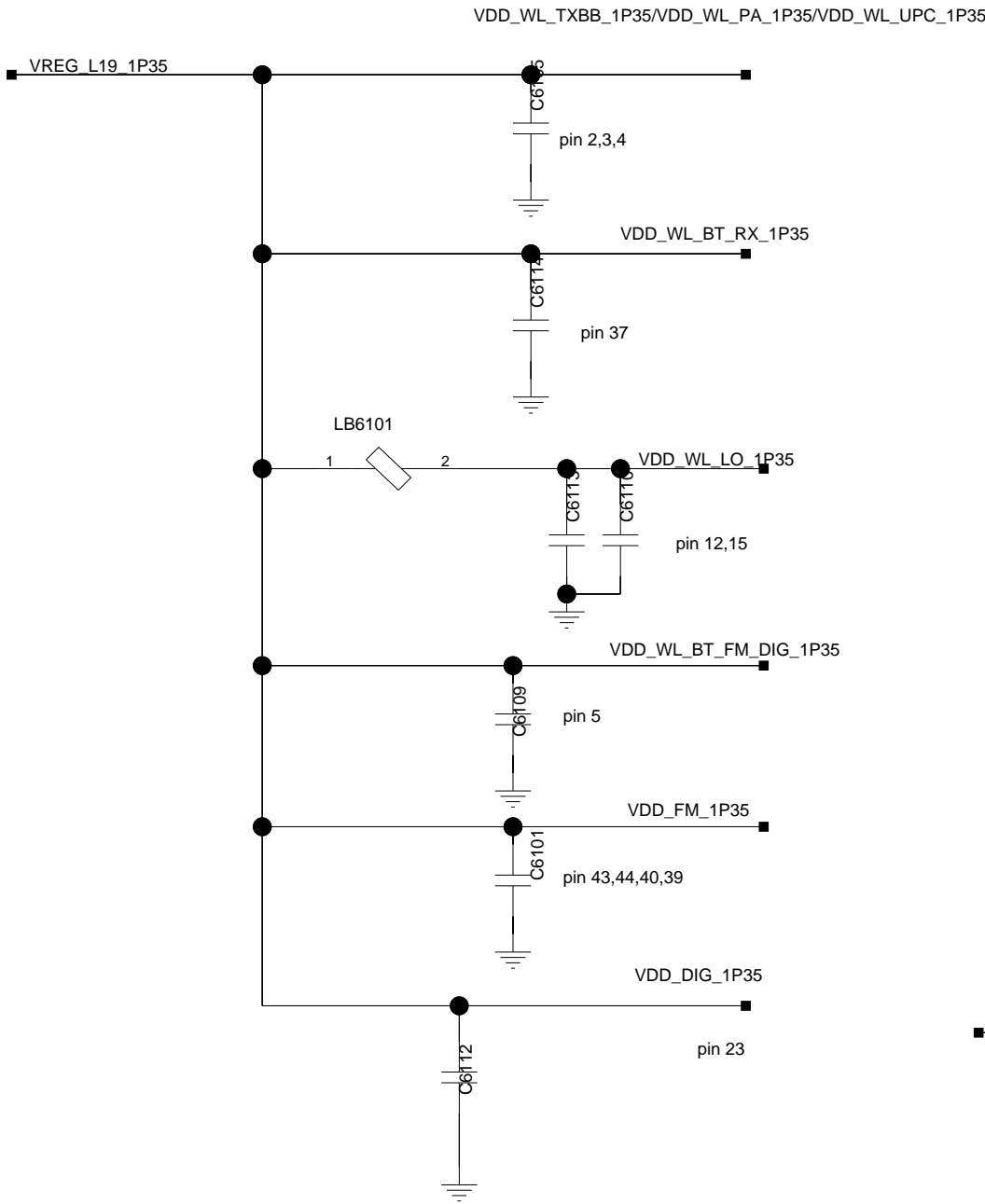
MT Pro



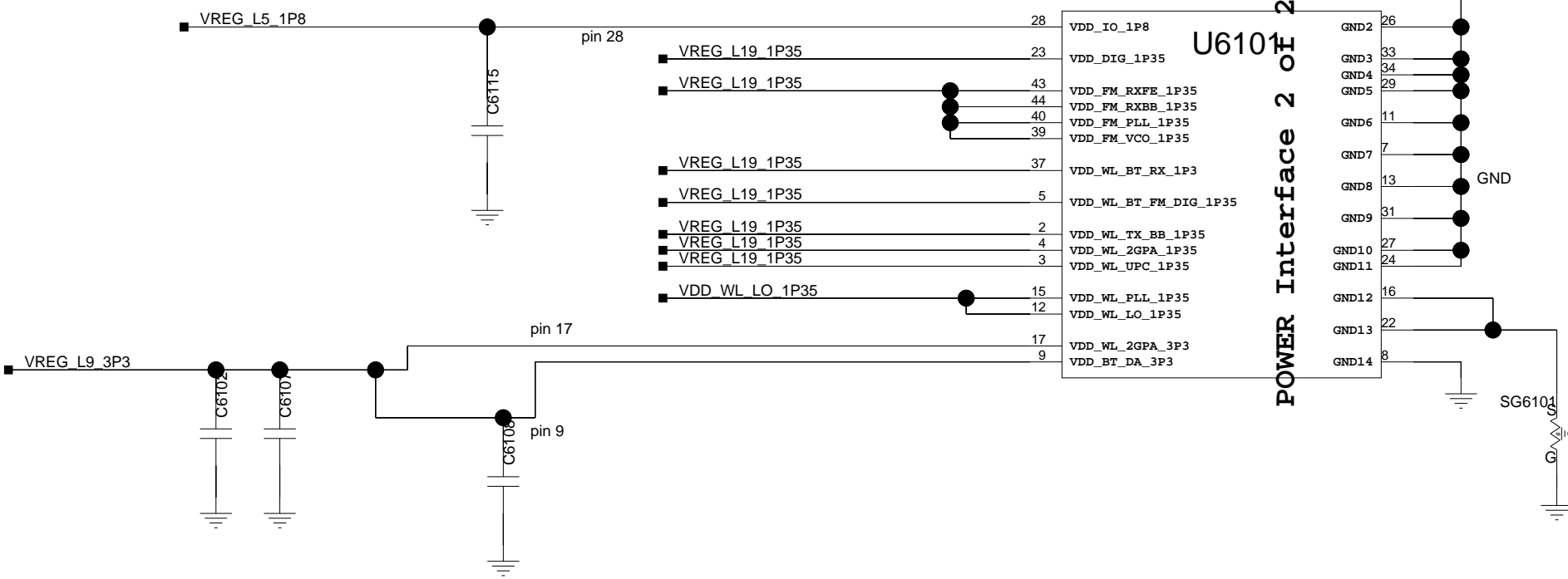
The type and specification of the components refer to the BOM

				ECA NO	2015-10-28
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	60_GPS 69
		D	03023LER	HUAWEI TECH CO.,LTD.	

61_WCN3615 BB

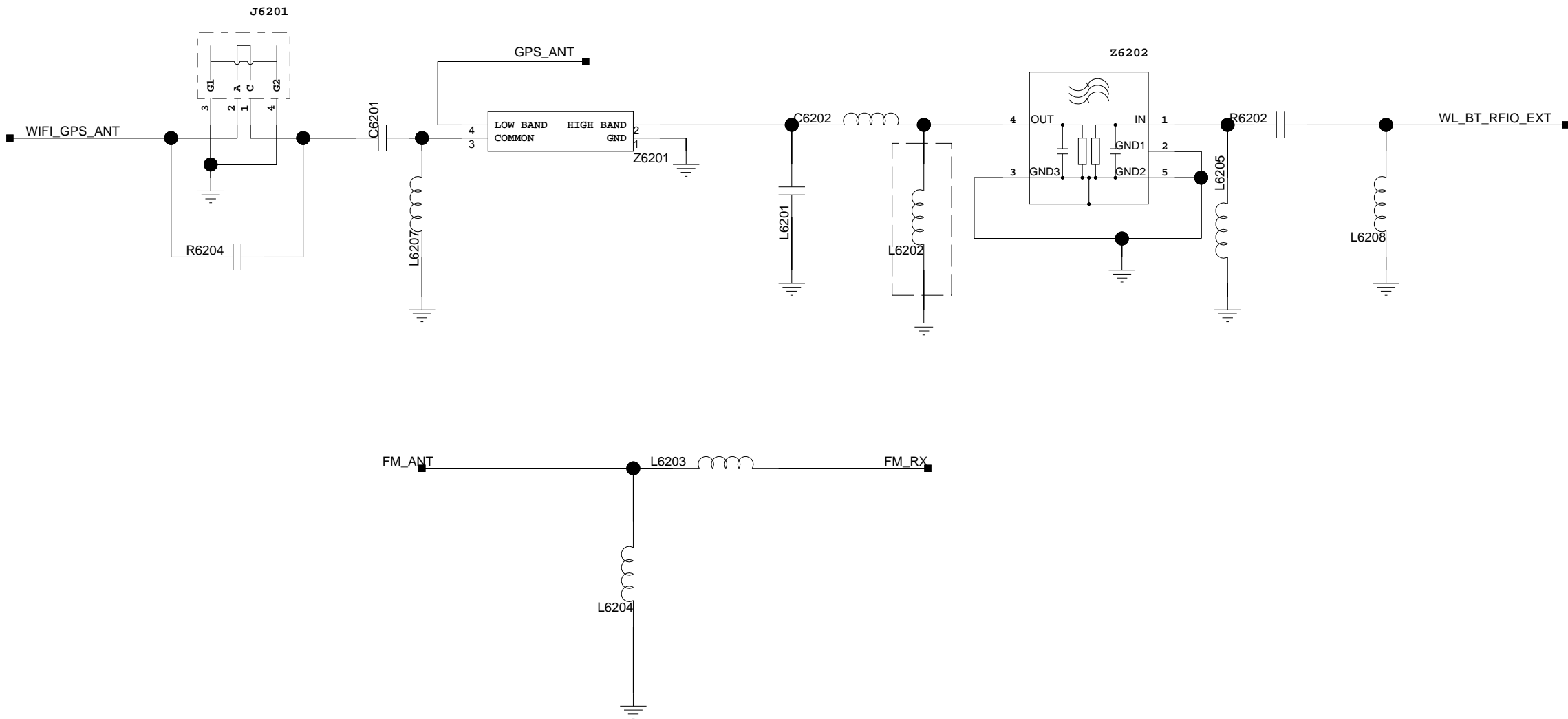


MT Pro



The type and specification of the components refer to the BOM

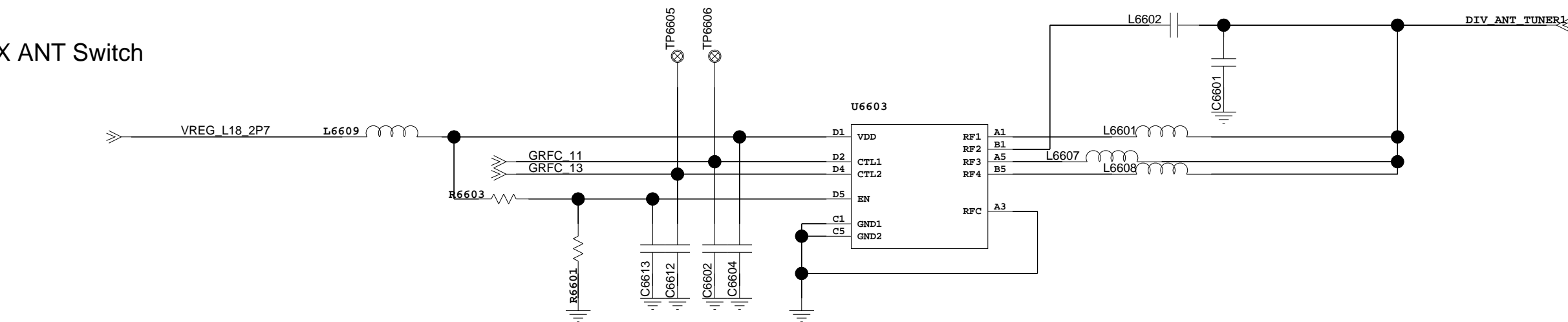
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DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	61_WCN3615BB
		D	03023LER	HUAWEI TECH CO.,LTD.	



The type and specification of the components refer to the BOM					
				ECA NO	2015-10-28
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	62_WCN3615 RF
		D	03023LER	HUAWEI TECH CO.,LTD.	

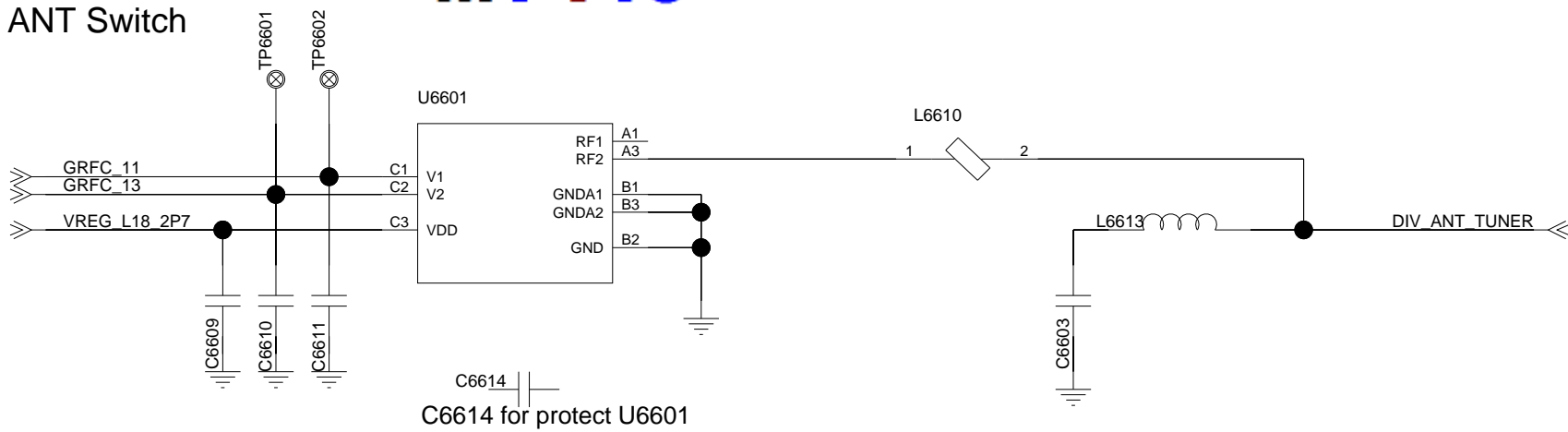
66 ANT TUNER

DRX ANT Switch



MT Pro

DRX ANT Switch

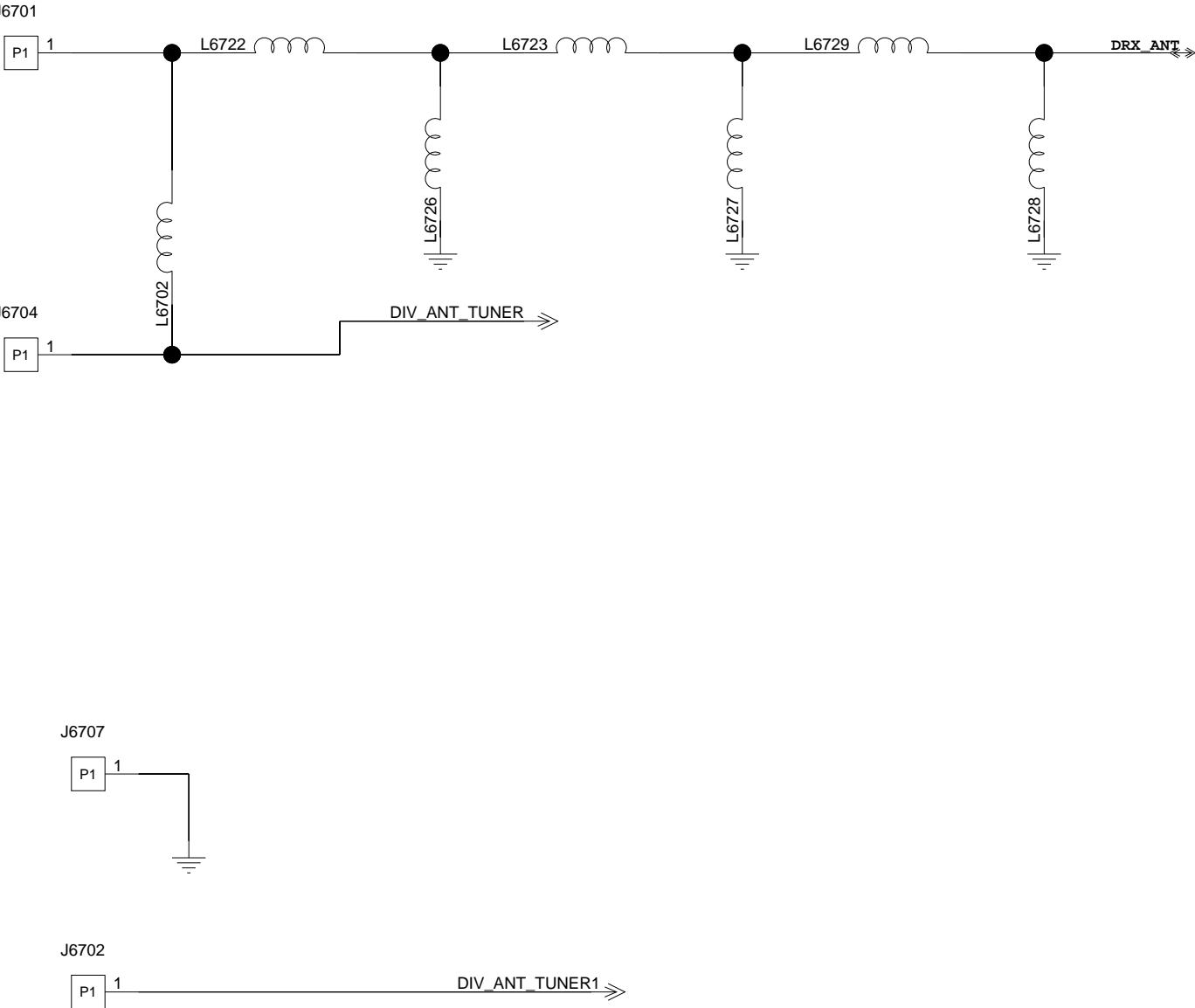


The type and specification of the components refer to the BOM

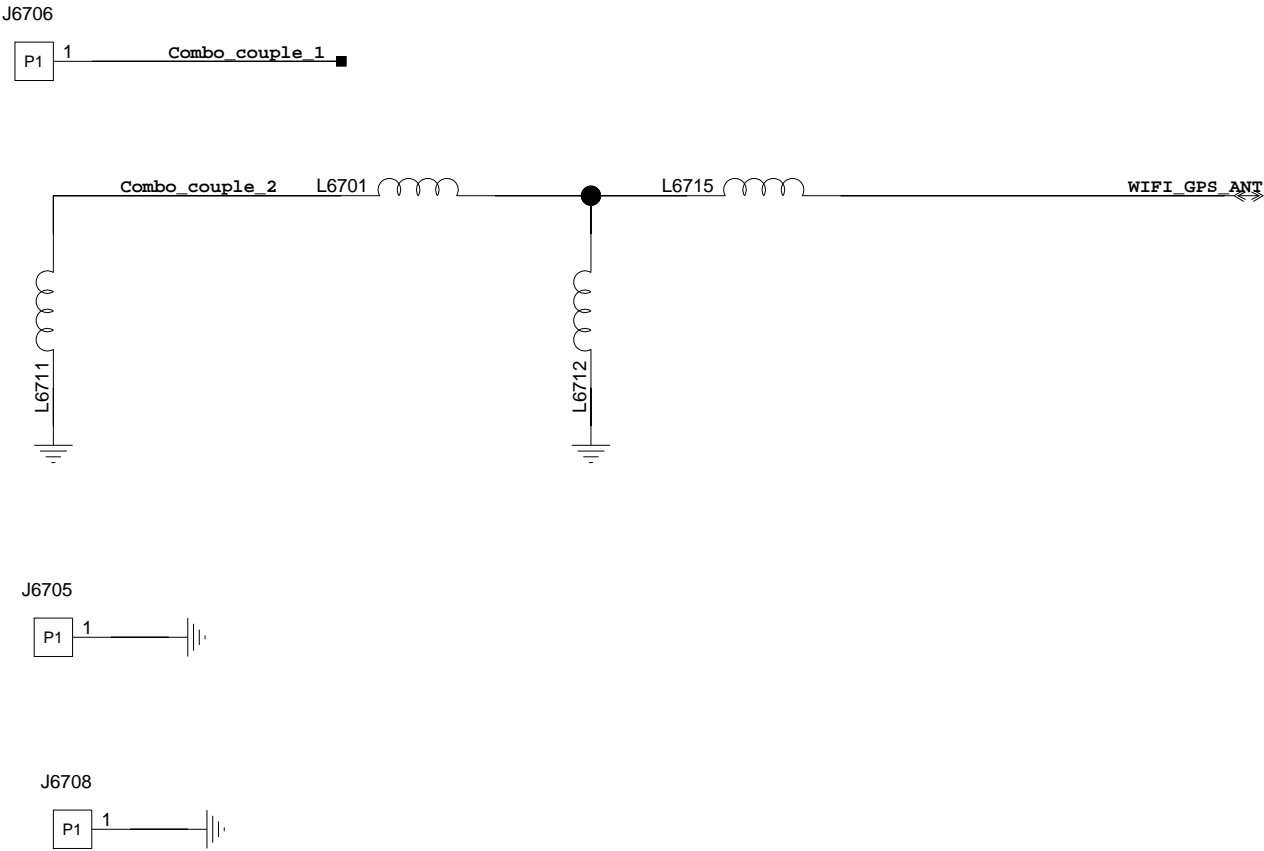
				ECA NO	2015-10-28
				DATE	
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET 66 ANT TUNER	
		D	03023LER	HUAWEI TECH CO.,LTD.	

67.ANTENNA MATCH

DIV ANT



WIFI/GPS ANT



The type and specification of the components refer to the BOM

				N/A	2015-10-28
				ECA NO	DATE
DESIGNED	ZHANGWEI 258690	HL1VENUSM		03023LER_SCHZH	
REVIEWED	JIQING 169846				
		VER	PART_NUMBER	SHEET	67_ANTENNA MATCH
		D	03023LER	HUAWEI TECH CO.,LTD.	