

Baseband Schematic

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MODEM Schematic

- 31. RF Interface
- 32. RF Transceiver0
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- 35. Reserved
- 36. Reserved
- 37. RF Front End LW B1/B2/B3/B5/B8 TRX
- 38. RF Front End MMBPA+Switch /Main A
- 39. RF Front End MAIN ANT TUNNER
- 40. Reserved
- 41. Reserved
- 42. TCXO
- 43. Reserved for CDMA Modem
- 44. Reserved for CDMA Modem
- 45. Reserved for CDMA Modem
- 46. Reserved for CDMA Modem
- 47. Reserved for CDMA Modem
- 48. Reserved for CDMA Modem
- 49. RESERVED
- 50. RESERVED
- 51. Reserved
- 52. BT/WLAN/FM/NFC
- 53. BT/WLAN/FM/NFC
- 54. WIFI_RF_FrontEnd_2.4GHz
- 55. WIFI_RF_FrontEnd_5GHz
- 56. GPS
- 57. Reserved
- 58. RF Transceiver2
- 59. RFIC2_GSM PA+Switch+RX
- 60. RF PMU2

The type and specification of the components refer to the BOM

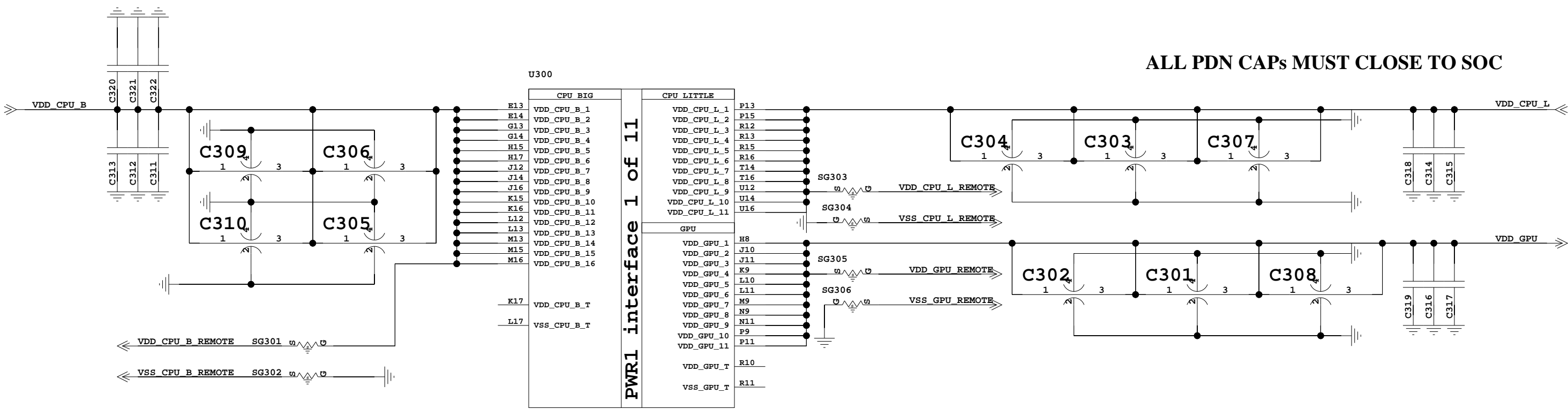
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				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 1_Contents 67	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

2. Block Diagram

The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 2_Block Diagram	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

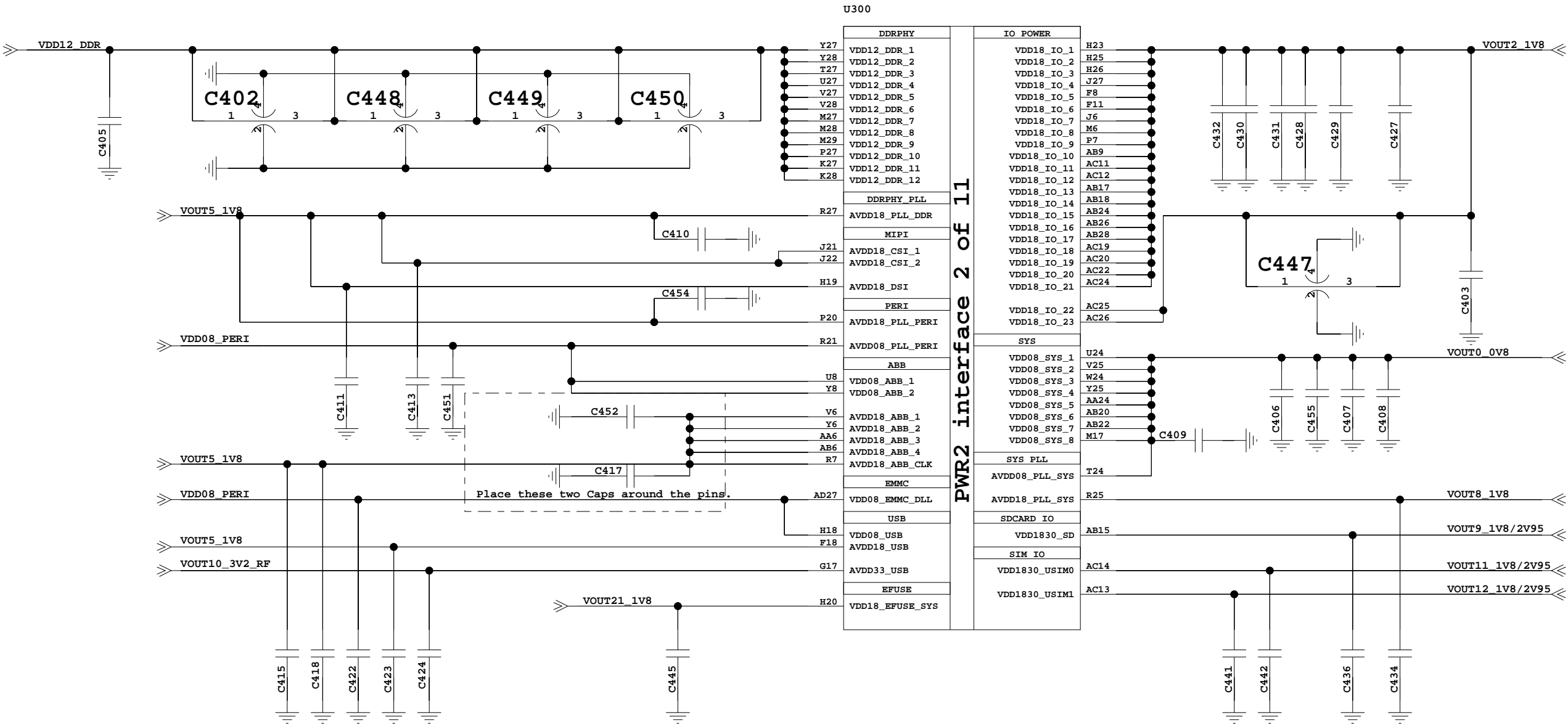
3. SOC PWR1



The type and specification of the components refer to the BOM

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DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 3_SOOFPWR1	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

4. SOC PWR2

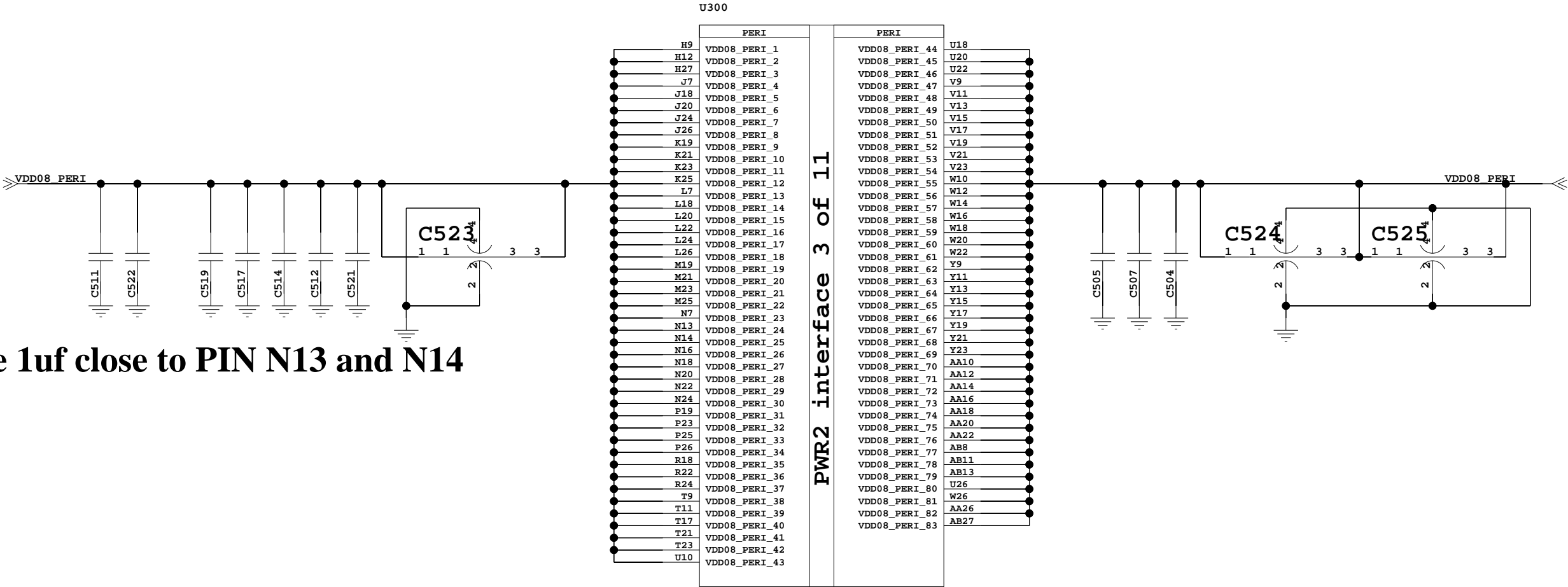


The type and specification of the components refer to the BOM

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REVIEWED	ZHANGYOUJUN 00258580	VER		PART_NUMBER	
		C		03024XXX	
				SHEET 4_SOOFPWR2	
				HUAWEI TECH CO.,LTD.	

5. SOC PWR3

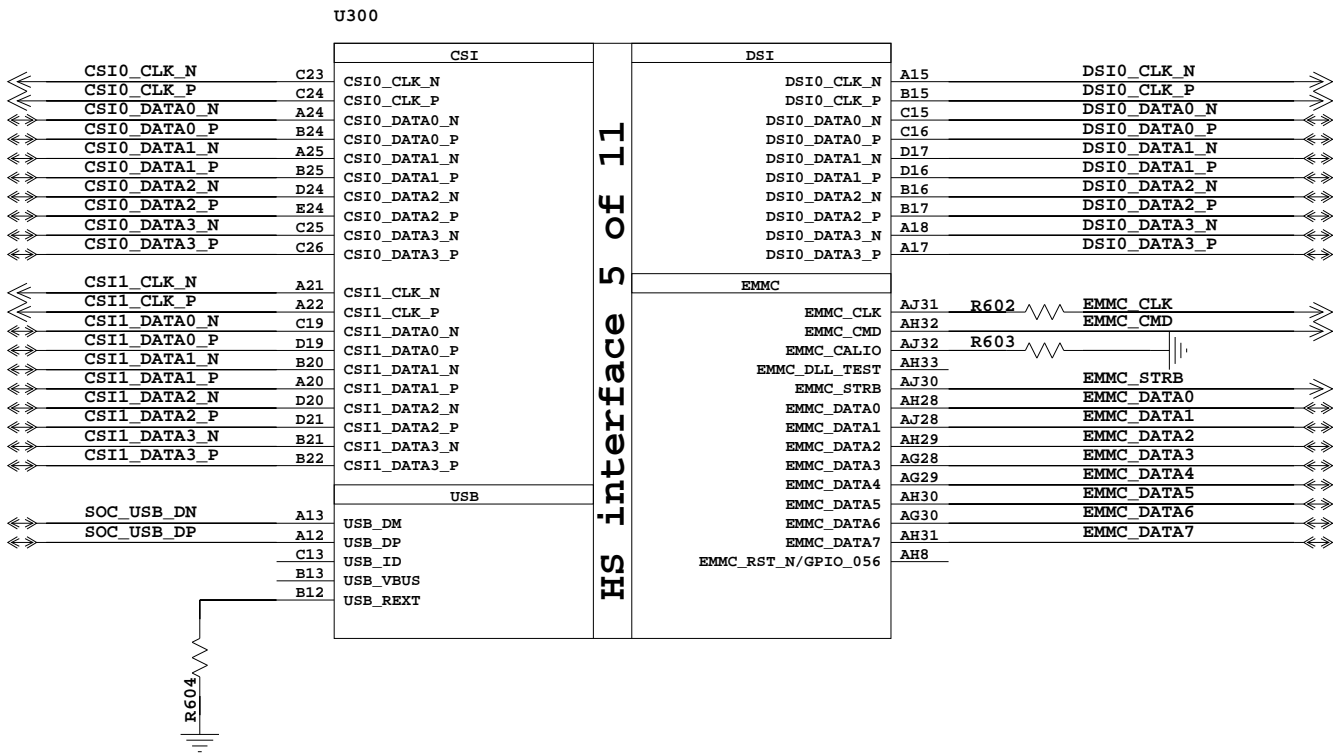
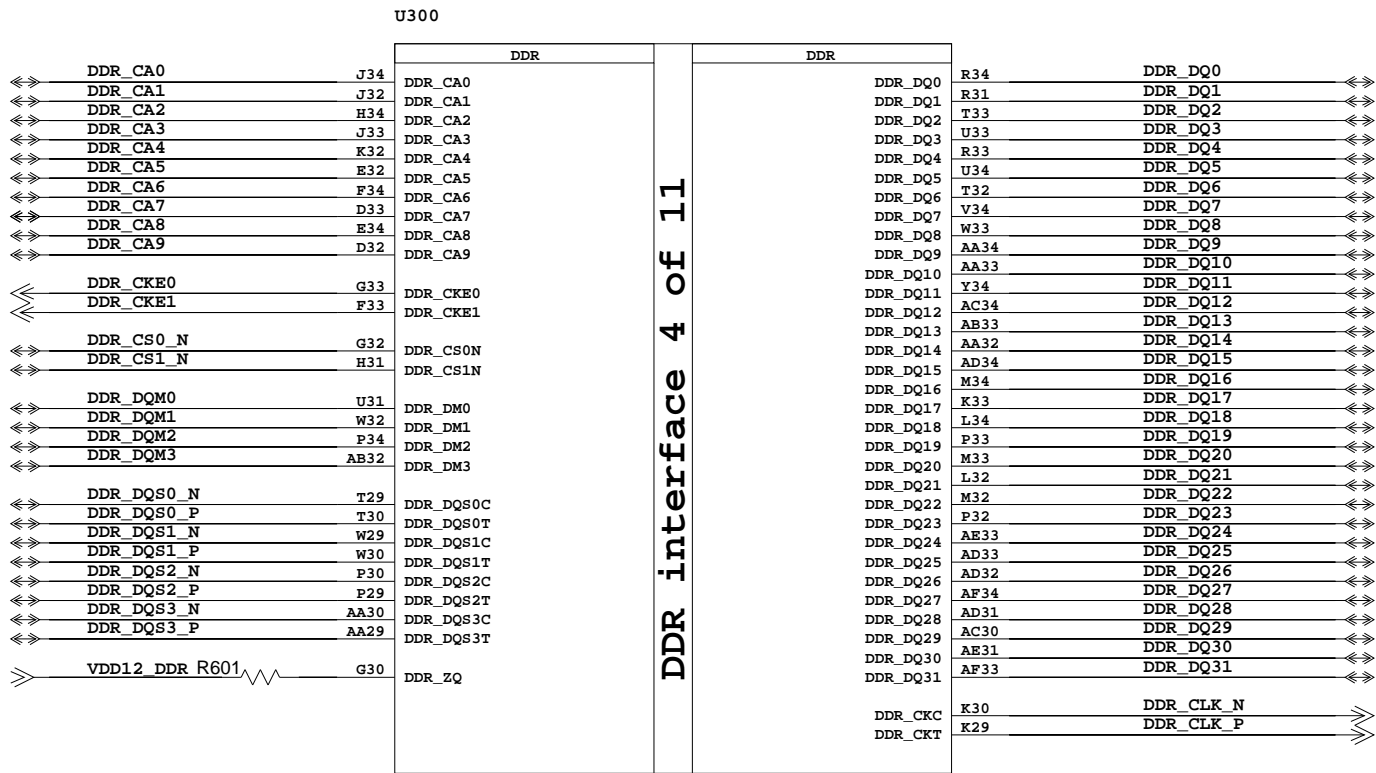
Place 1uf close to PIN N13 and N14



The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 5_SOOFPWR3	
		c	03024XXX	HUAWEI TECH CO.,LTD.	

6. SOC HS Interface



The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 6_SOOHS Interface	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

7. SOC GPIO

A

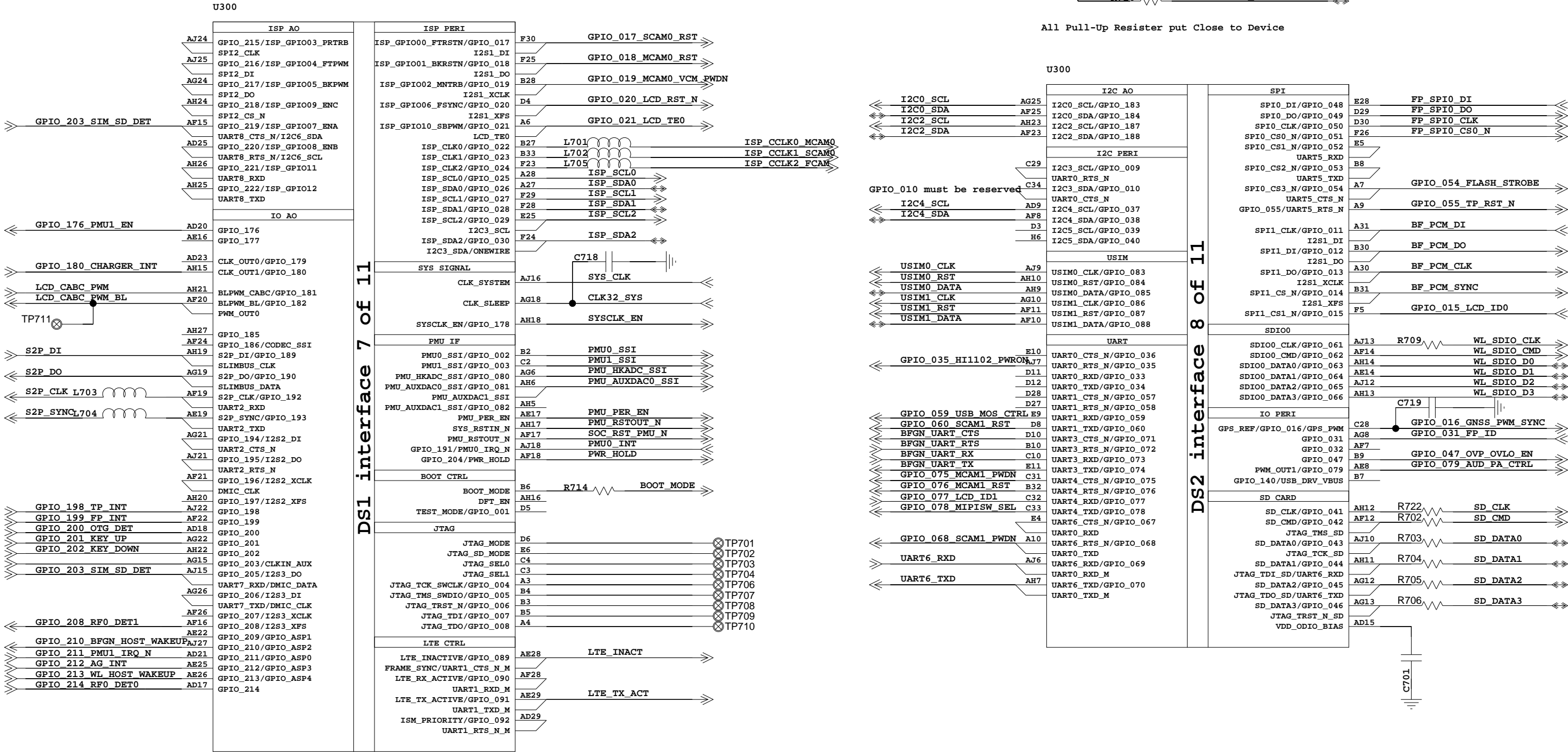
B

C

D



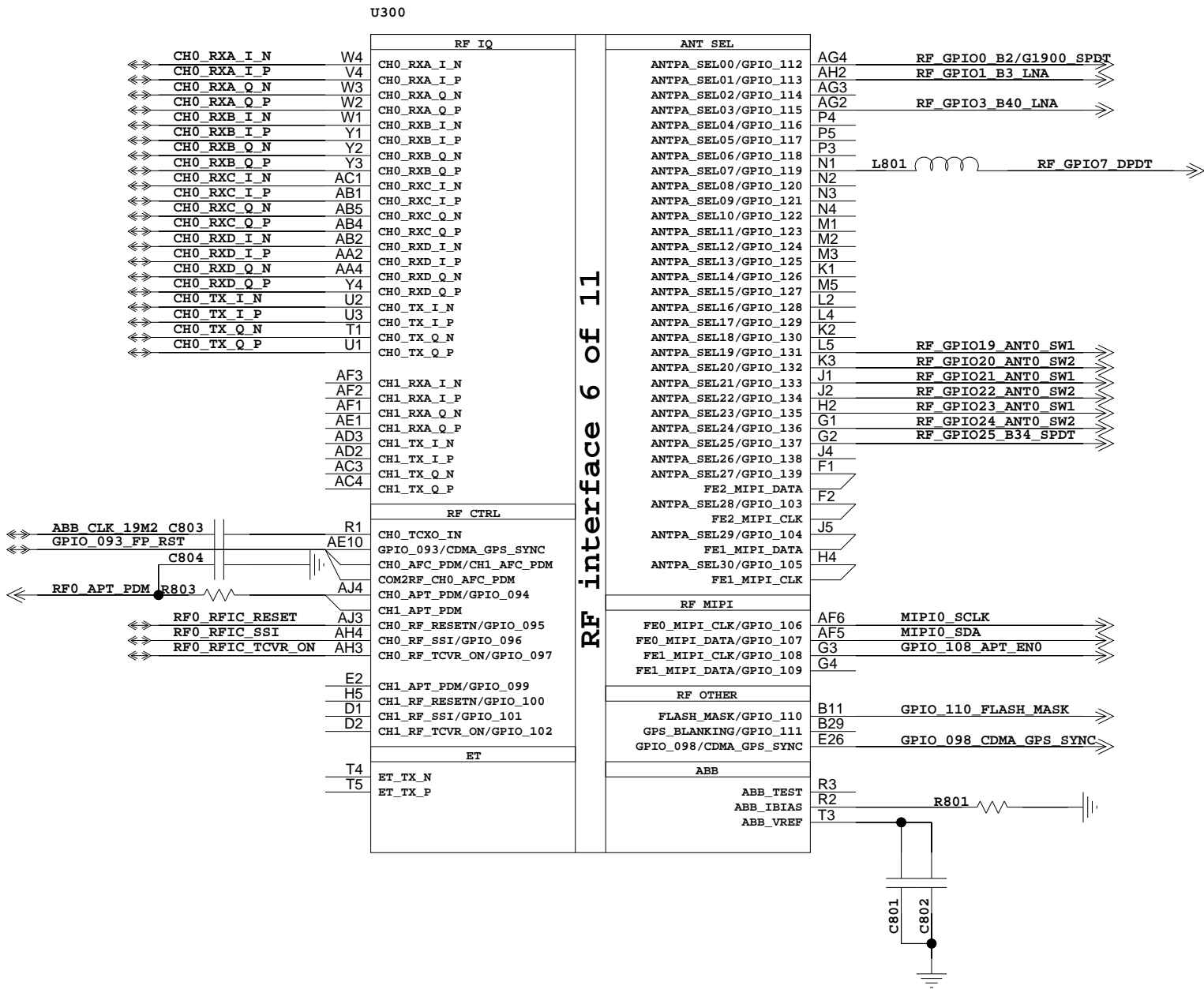
All Pull-Up Resister put Close to Device



The type and specification of the components refer to the BOM

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				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 7_S0067Interface	
		c	03024XXX	HUAWEI TECH CO.,LTD.	

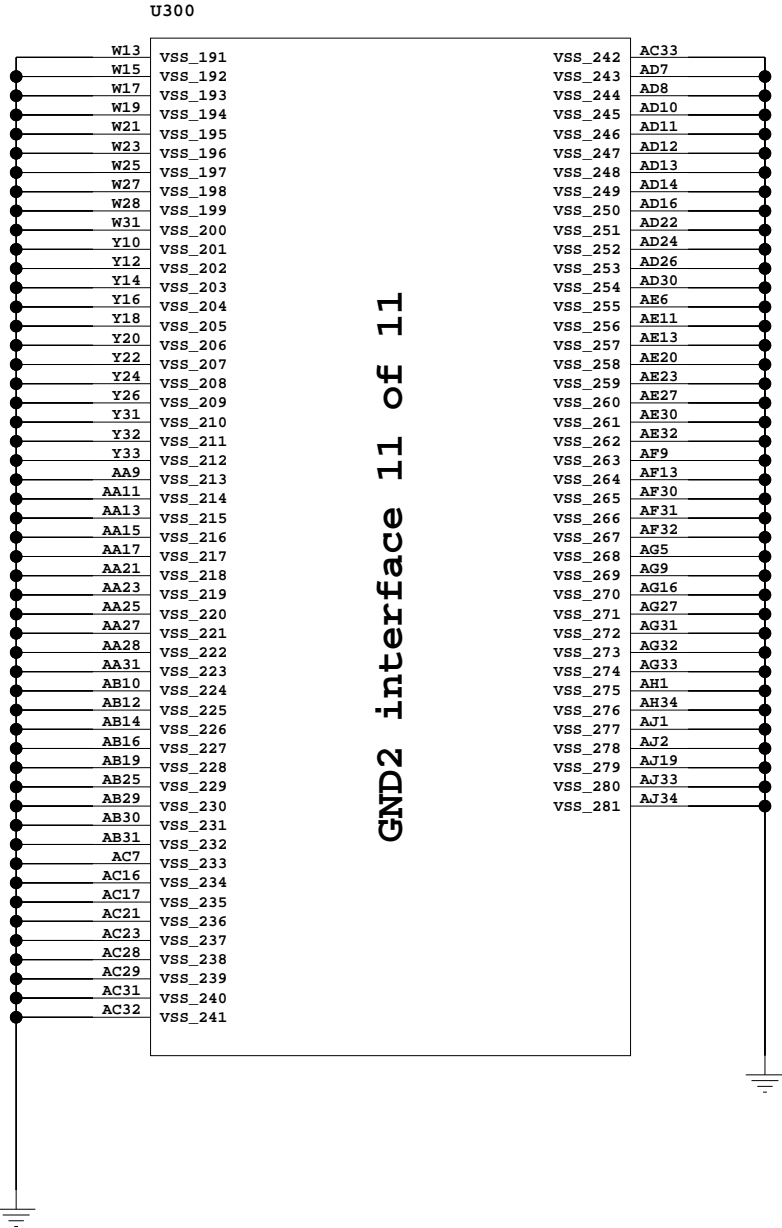
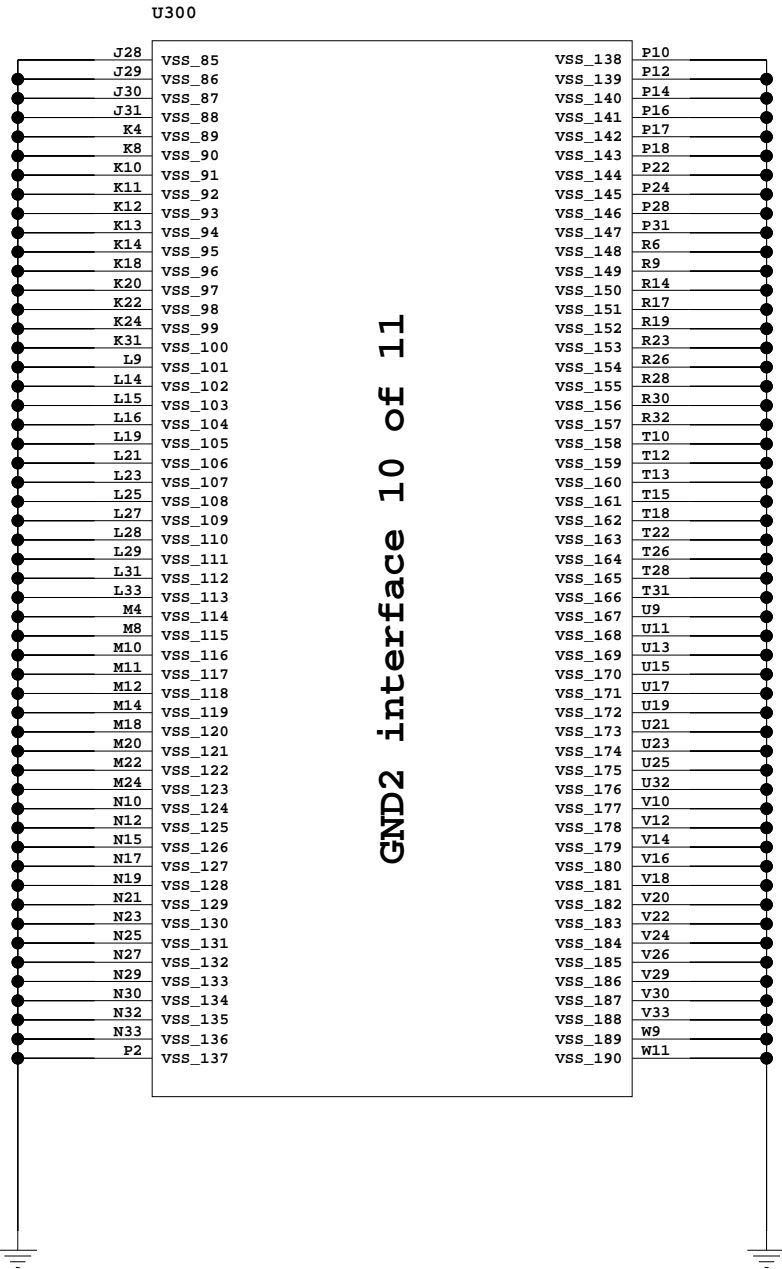
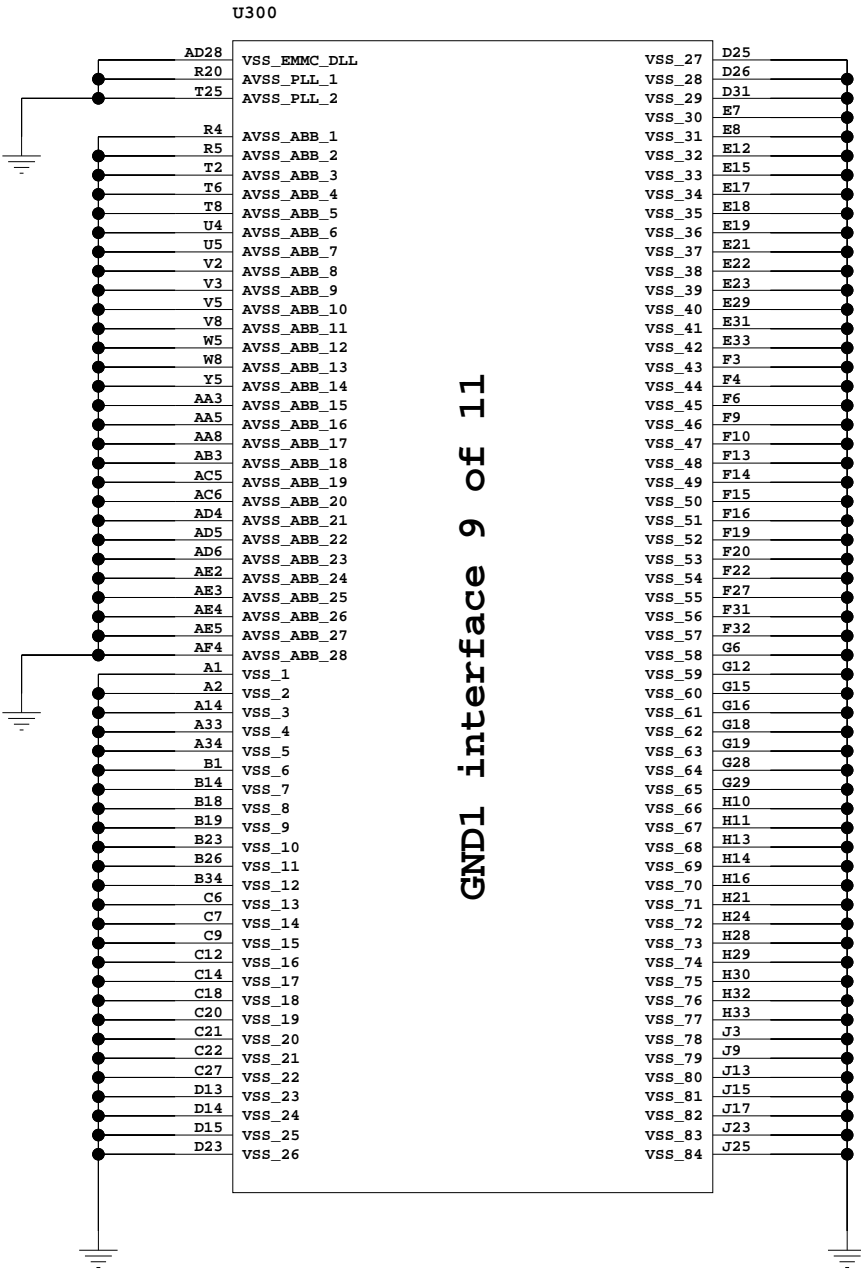
8. SOC RF



The type and specification of the components refer to the BOM

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				ECA NO	DATE
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REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 8_SOO RF interface	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

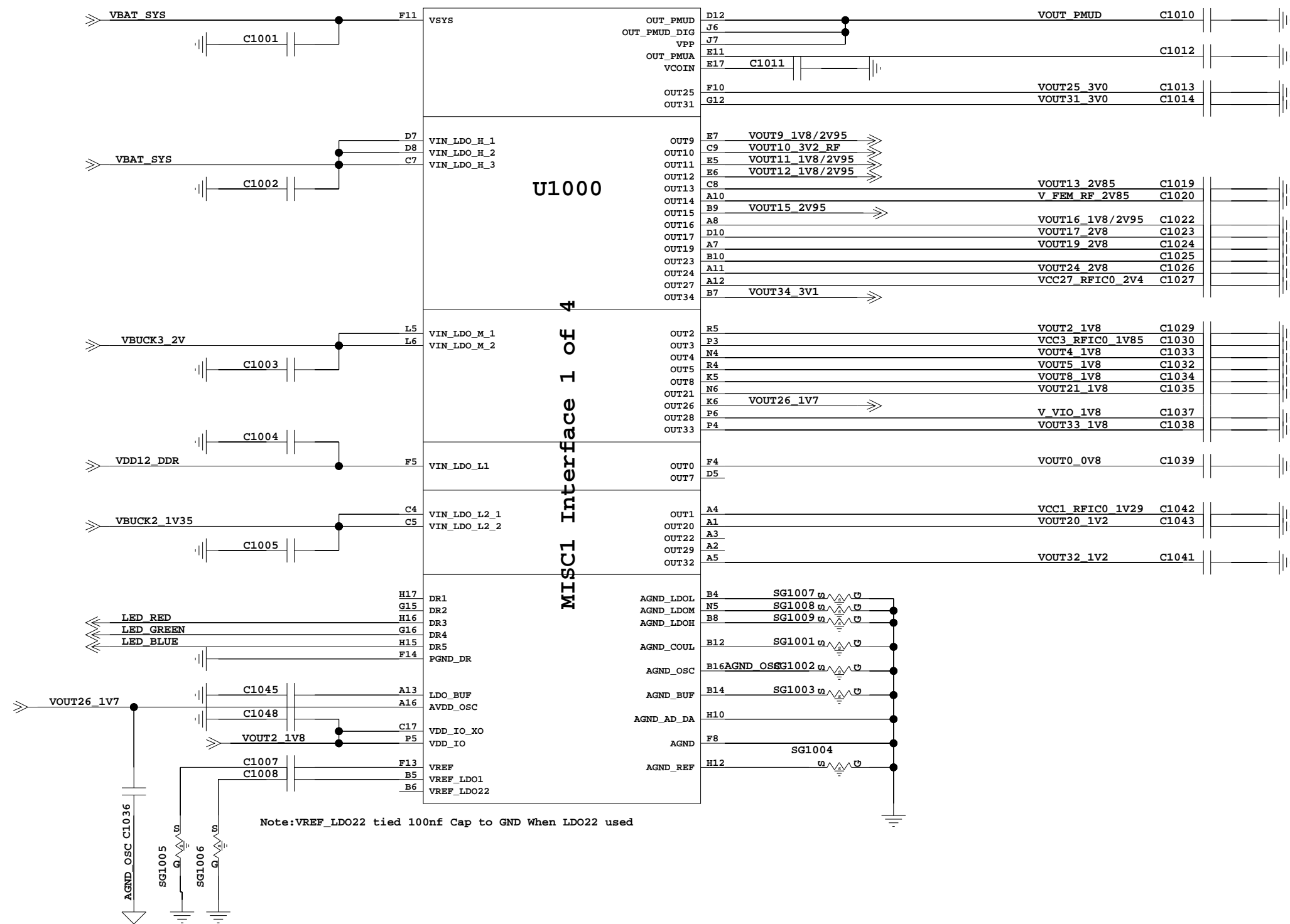
9. SOC GND



The type and specification of the components refer to the BOM

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REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 9_S00FND7	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

10. PMU LDO

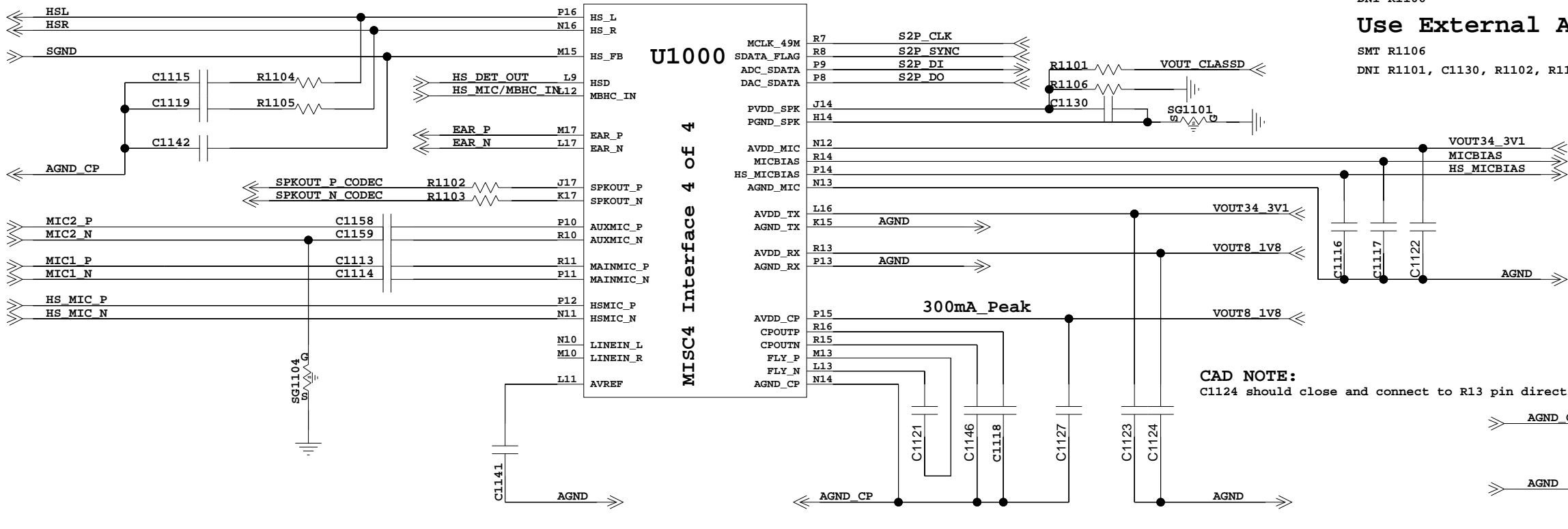


output	default	current	voltage	function
LDO1	OFF	250	1.29	SOC A0
LDO2	ON	800	1.8	PMU dig/RFIC/SOC1.8IO/LPDDR VDD/CONT IO
LDO3	OFF	200	1.85	RFIC0&1 AVDD2
LDO4	OFF	150	1.8	LCD1.8 IO/TP1.8 IO
LDO5	ON	500	1.8	CSI/DSI/AVDD/PLL HV/USB 1.8
LDO7	ON	200	0.9	AVDDH ABB
LDO8	ON	300	1.8	SOC pll/codec CP
LDO9	OFF	50	1.8/2.95	SD IO
LDO10	ON	150	3.2	USB 3.0
LDO11	OFF	50	1.8	SIM0
LDO12	OFF	50	1.8	SIM1
LDO13	OFF	300	2.85	S camera analog
LDO14	OTP	50	2.85	RF FEM
LDO15	ON	600	2.95	EMMC VDD
LDO16	OFF	800	2.95	SD card
LDO17	OFF	50	2.8	LCD TP
LDO19	OFF	300	2.8	M camera anlog
LDO20	OFF	400	1.2	M Camera Core
LDO21	OFF	150	1.8	sys efuse
LDO22	OFF	250	1.29	RFIC1 AVDD1 1.29v
LDO23	ON	50	2.1	HKADC
LDO24	ON	50	2.8	X Sensor AVDD
LDO25	OFF	400	3.0	Camera VCM
LDO26	ON	50	1.7	19.2 AVDD
LDO27	ON	50	2.4	RF 6362
LDO28	OFF	50	1.8	RF MIPI I/O
LDO29				
LDO30				
LDO31	OFF	300	3.0	Vibrator
LDO32	OFF	400	1.2	S Camera Core
LDO33	OFF	150	1.8	M/S Camera I/O
LDO34	ON	150	3.2	codec 3.2V

The type and specification of the components refer to the BOM

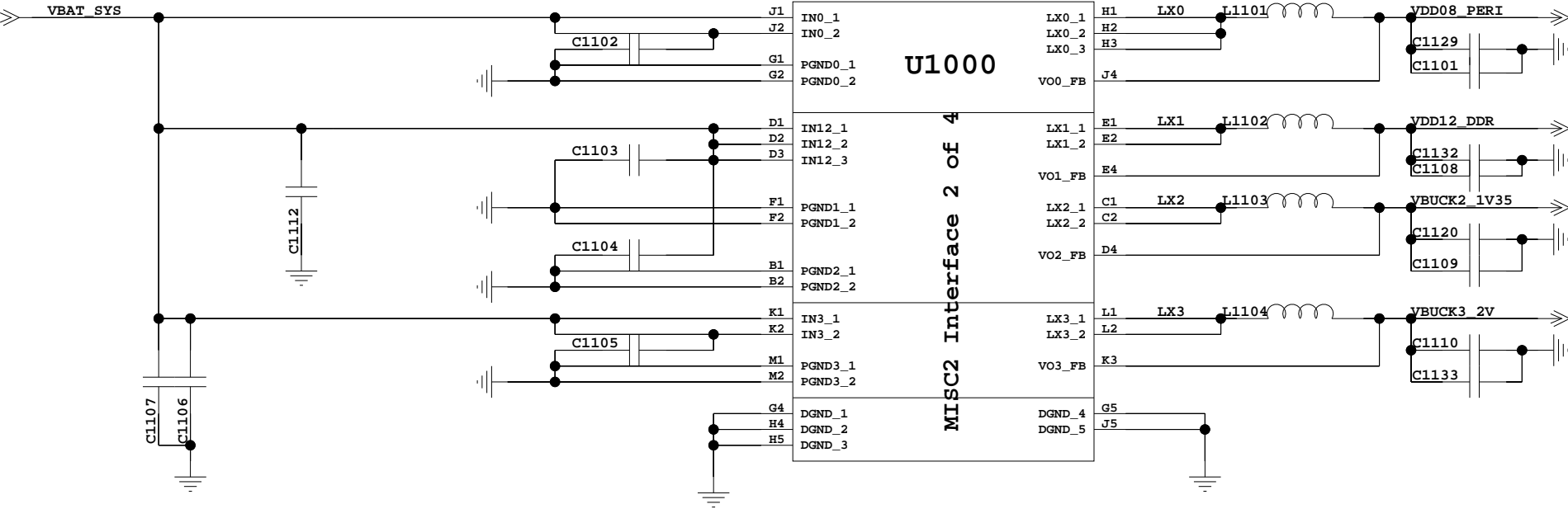
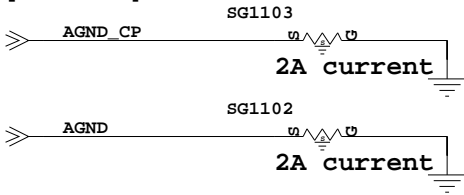
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DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 10_P106 LDO67	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

11. PMU BUCK/Codec



Note:
Use internal Audio PA
SMT R1101, C1130, R1102, R1103
DNI R1106
Use External Audio PA
SMT R1106
DNI R1101, C1130, R1102, R1103

CAD NOTE:
C1124 should close and connect to R13 pin directly

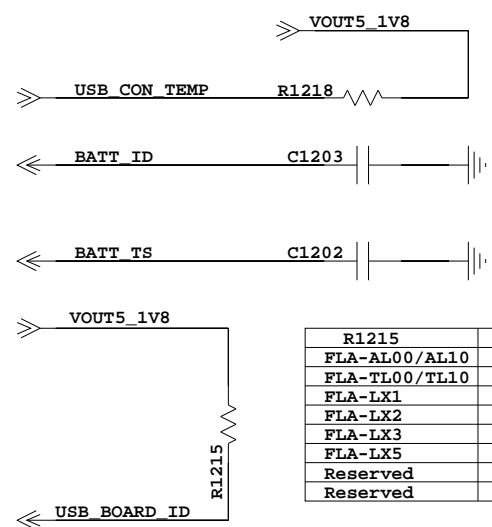
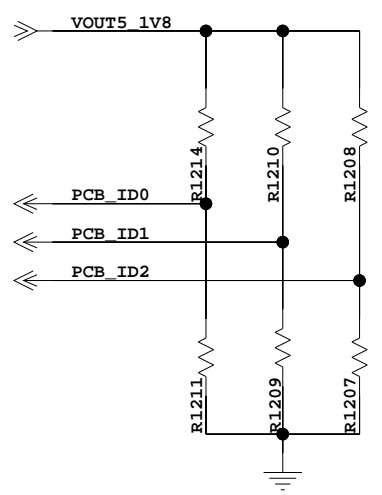
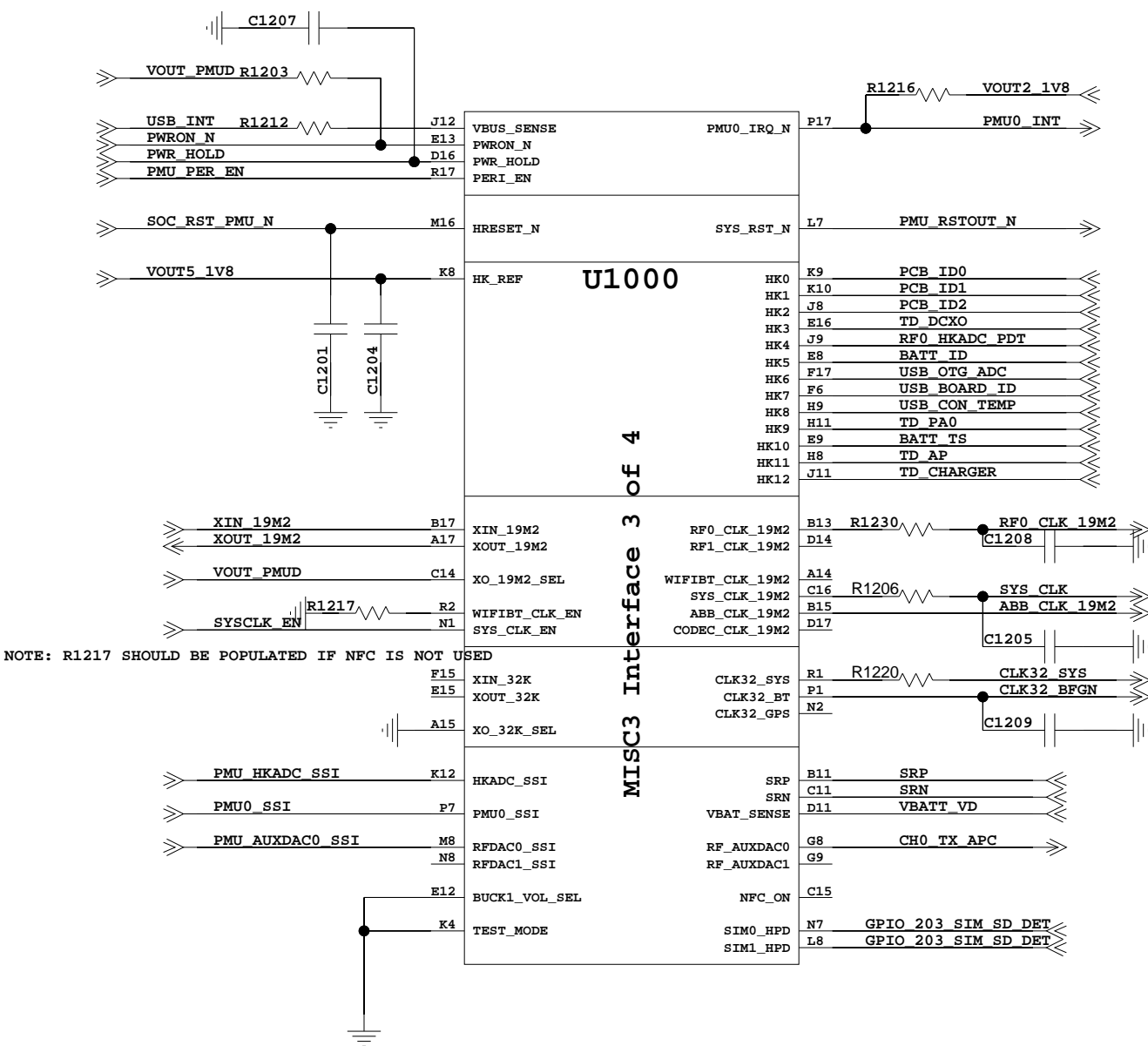


BUCK0	ON	3000	0.8	DDR Core/CSI/DSI Phy emmc phy usb phy...
BUCK1	ON	2000	1.1	VDDQ/VDDCA/VDD2/ODTLDO2
BUCK2	ON	2000	1.35	1.35 buck
BUCK3	ON	2000	2.0	2.0 buck

The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580	VER		PART_NUMBER	
		c		03024XXX	
				SHEET 11_P106 BUCK/Codec	
				HUAWEI TECH CO.,LTD.	

12. PMU MISC



HKADC	Function	HKADC	Function
HKADC_IN0	Board ID0	HKADC_IN7	USB_BOARD_ID
HKADC_IN1	Board ID1	HKADC_IN8	USB_CON_TEMP
HKADC_IN2	Board ID2	HKADC_IN9	TD_PA0
HKADC_IN3	DCXO Temp	HKADC_IN10	BATT Temp
HKADC_IN4	PD_PA0	HKADC_IN11	TD_SOC
HKADC_IN5	BATT ID	HKADC_IN12	TD_CHARGER
HKADC_IN6	USB_OTG_ADC		

Use Internal Audio PA

Mode		R1214	R1211	R1210	R1209	R1208	R1207
FLA-AL00/AL10	V1-MP	30K	100K	NC	0	51K	100K
FLA-TL00/TL10	V1-MP	30K	100K	150K	22K	51K	100K
FLA-LX1	V1-MP	30K	100K	100K	30K	51K	100K
FLA-LX2	V1-MP	30K	100K	200K	100K	51K	100K
FLA-LX3	V1-MP	30K	100K	150K	121K	51K	100K
FLA-LX5	V1-MP	30K	100K	121K	150K	51K	100K

Use External Audio PA

Mode		R1214	R1211	R1210	R1209	R1208	R1207
FLA-AL00	VN1-MP	121K	150K	NC	0	51K	100K
FLA-AL10/AL20	VN1-MP	200K	100K	51K	100K	51K	100K
FLA-TL00	VN1-MP	121K	150K	150K	22K	51K	100K
FLA-TL10	VN1-MP	150K	22K	51K	100K	30K	100K
FLA-LX1	VN1-MP	121K	150K	100K	30K	51K	100K
FLA-LX2	VN1-MP	121K	150K	200K	100K	51K	100K
FLA-LX3	VN1-MP	121K	150K	150K	121K	51K	100K
FLA-LX5	VN1-MP	121K	150K	121K	150K	51K	100K

R1215	Code	Value
FLA-AL00/AL10	07091406	200k
FLA-TL00/TL10	07092138	150k
FLA-LX1	07091246	100k
FLA-LX2	07091408	68k
FLA-LX3	07091302	51k
FLA-LX5	07091299	30k
Reserved	07091172	22k
Reserved	TBD	TBD

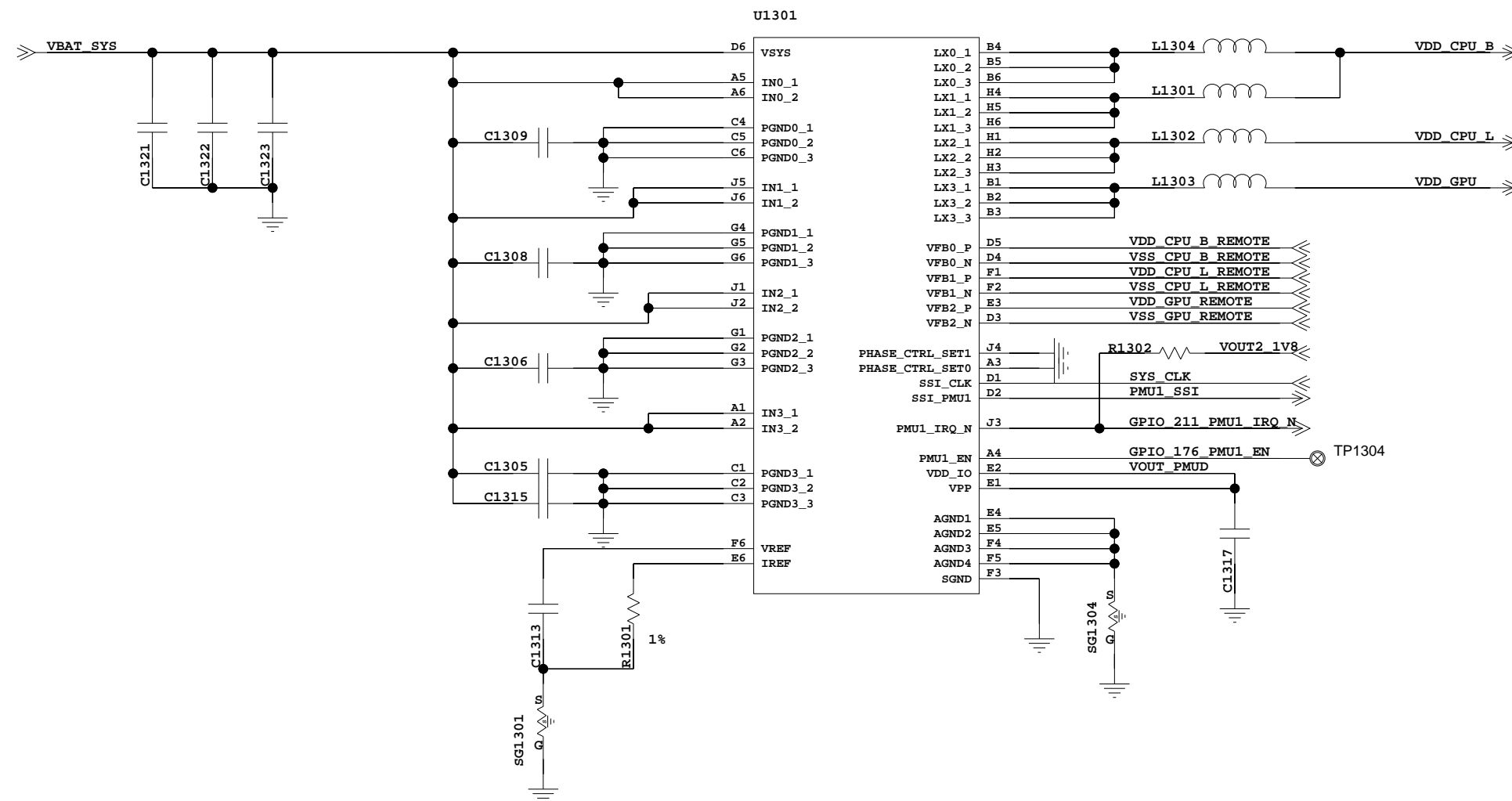
Board ID Resistor Set			Resistor Code	
ID	UP RES	DOWN RES	Value	Code
0	NC	0K	0K	07090911
1	150K	22K	20K	07092448
2	100K	30K	22K	07091172
3	200K	100K	30K	07091299
4	150K	121K	51K	07091302
5	121K	150K	100K	07091246
6	51K	100K	121K	07091176
7	30K	100K	150K	07092138
8	20K	150K	200K	07091406
9	150K	NC		

USB Board Check By software ADC

The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 12_P106 MISC	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

13. HI6422



instructions for L1301/L1302/L1303/L1304

6422 Type	CODE	Inductance Value
NEW 35021065	10100860	240nH
OLD 35020791	10100764	330nH

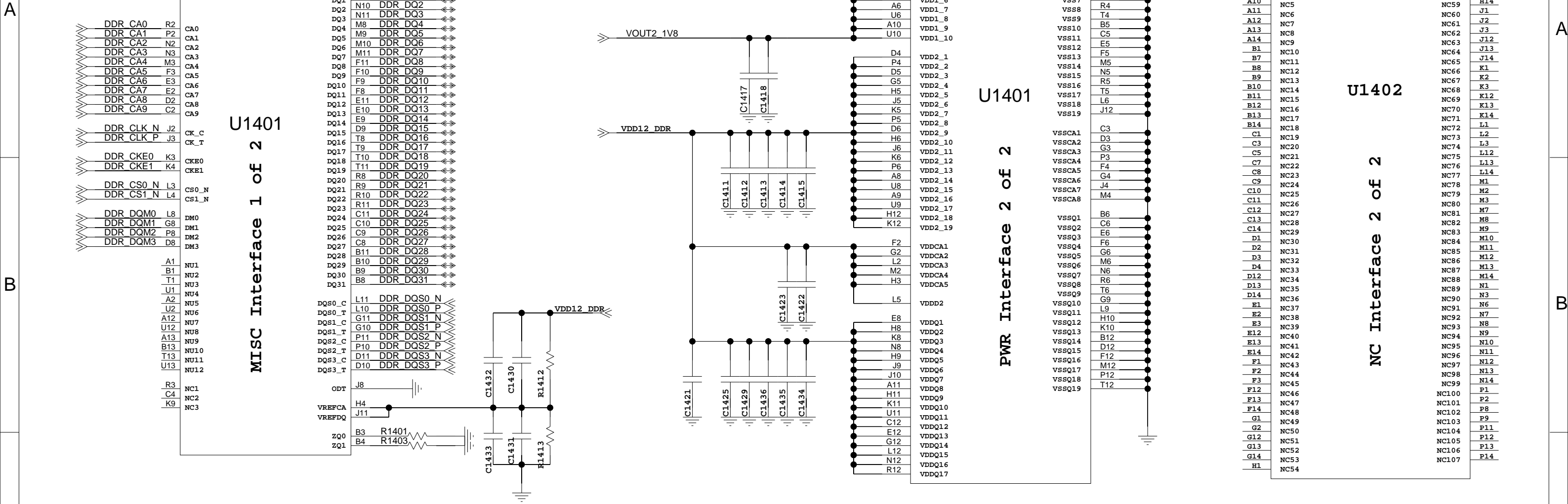
NOTES :

Must Config the software version for new 6422 configuration

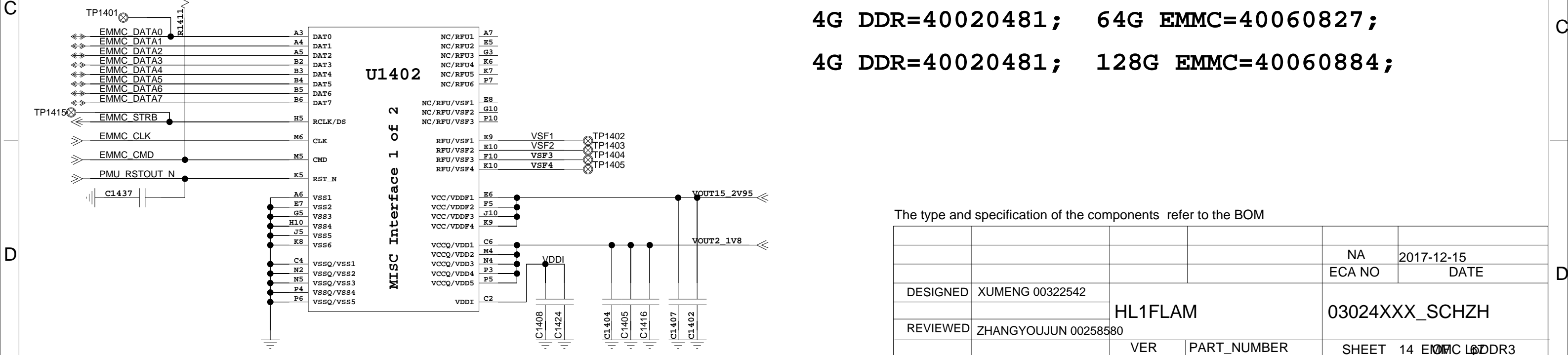
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REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 13_OF 22 67	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

14. eMMC AND LpDDR3



4G DDR=40020481; 32G EMMC=40060834;
4G DDR=40020481; 64G EMMC=40060827;
4G DDR=40020481; 128G EMMC=40060884;

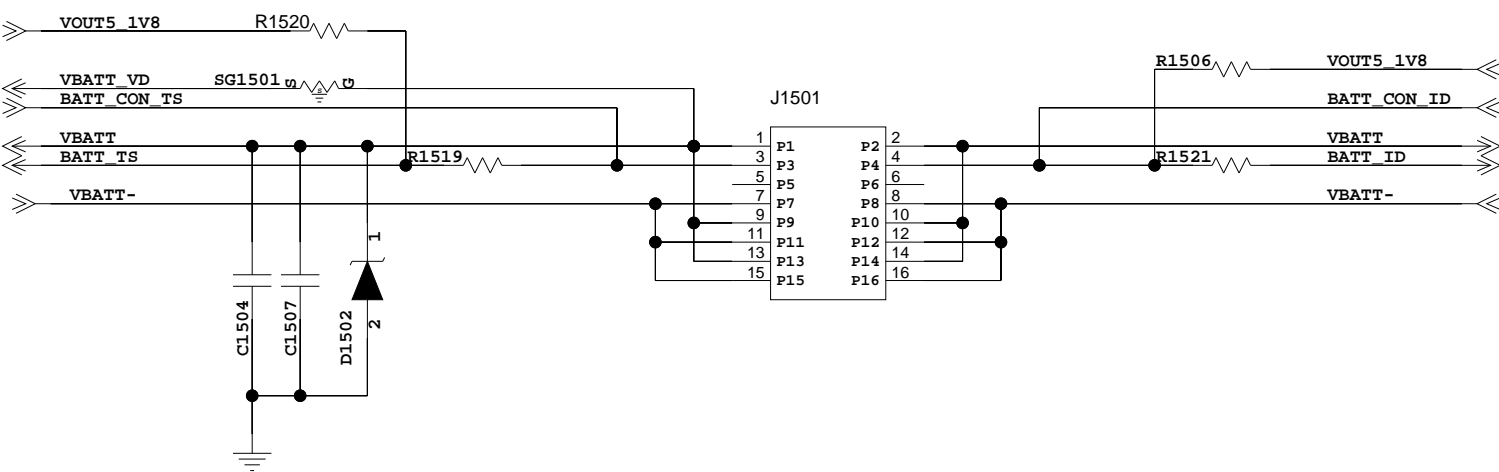


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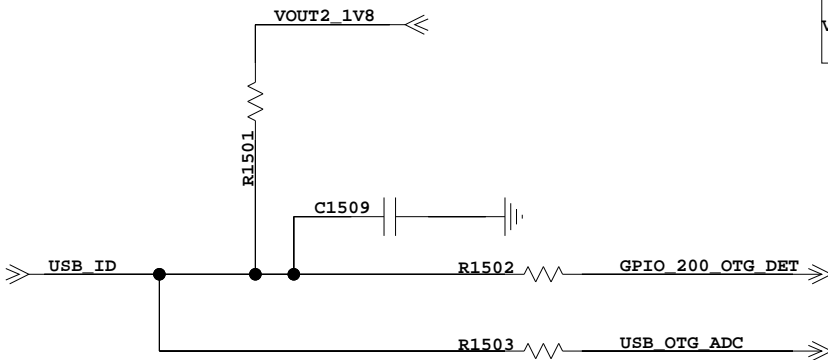
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REVIEWED	ZHANGYOUJUN 00258580			SHEET 14 OF 17	
		VER	PART_NUMBER	HUAWEI TECH CO.,LTD.	
		C	03024XXX		

15. Battery and USB

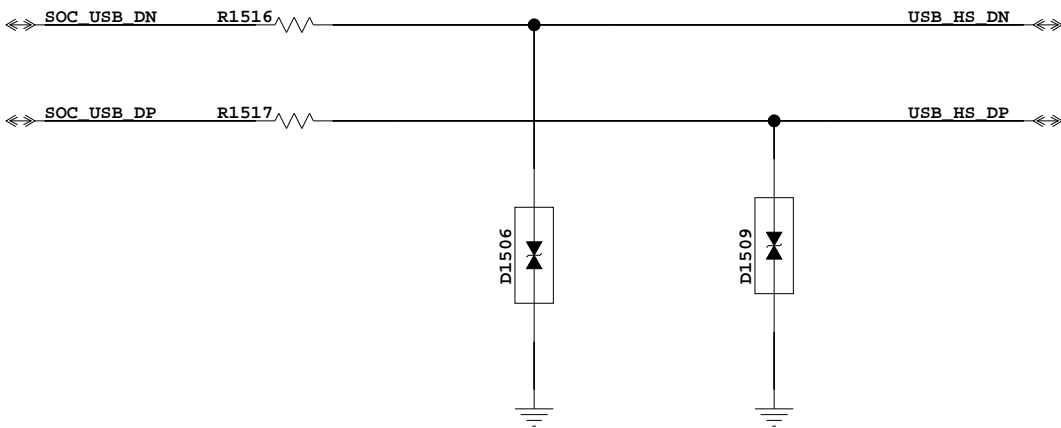
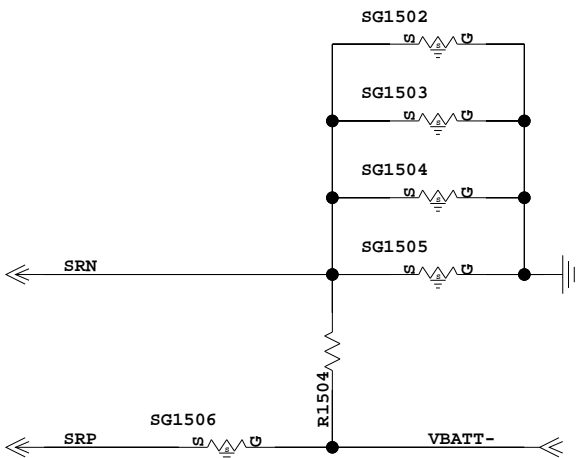
Battery Connector



BAT ID		470K	110K	68K	22K
Vendor	Package	SCUD	SCUD	DESAY	SUNWODA
	E-Core	LG	SONY	ATL	GUANGYU



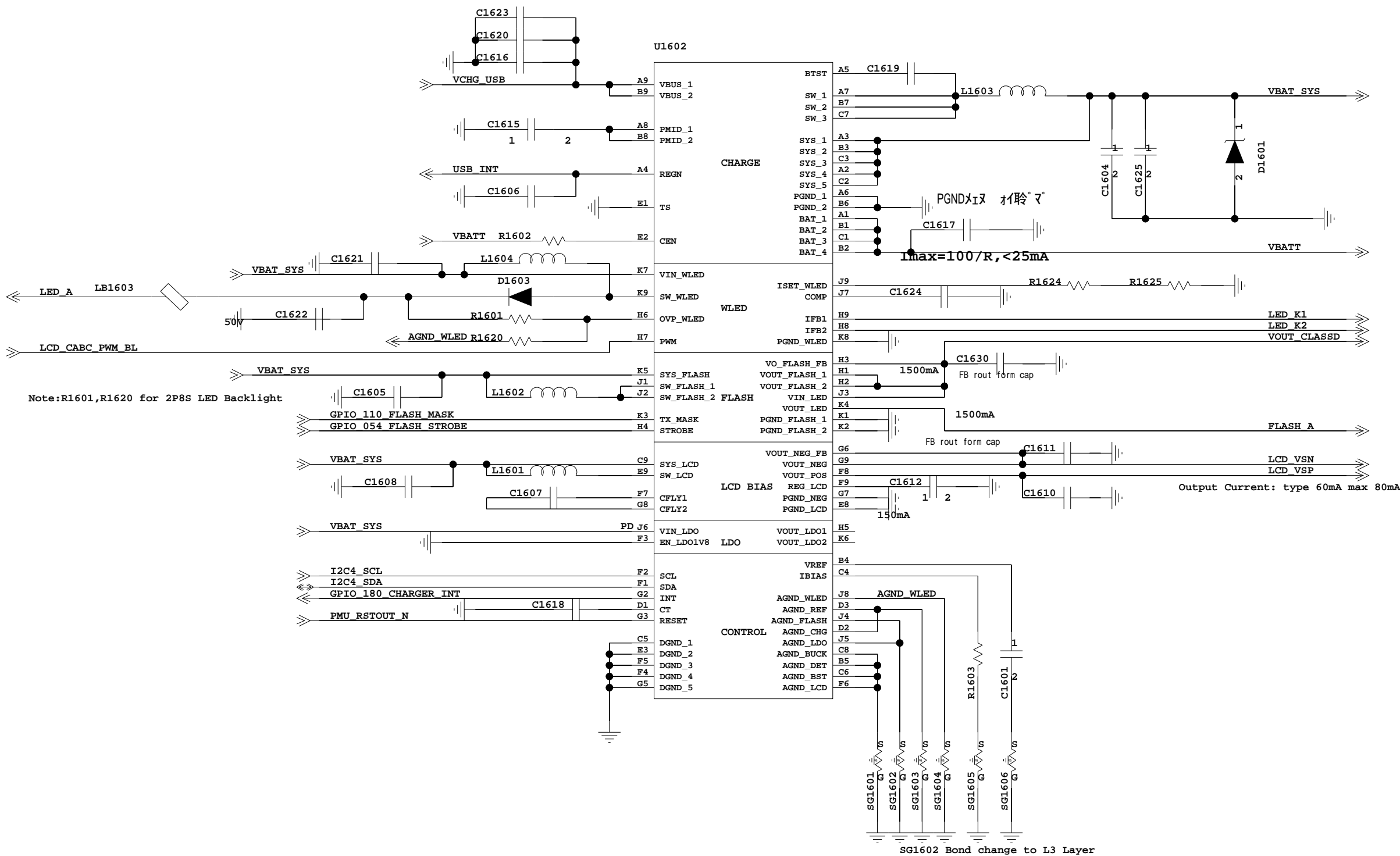
CAD note:1.Trace for 6A
2.Differential trace



The type and specification of the components refer to the BOM

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REVIEWED	ZHANGYOUJUN 00258580				
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		C	03024XXX	HUAWEI TECH CO.,LTD.	

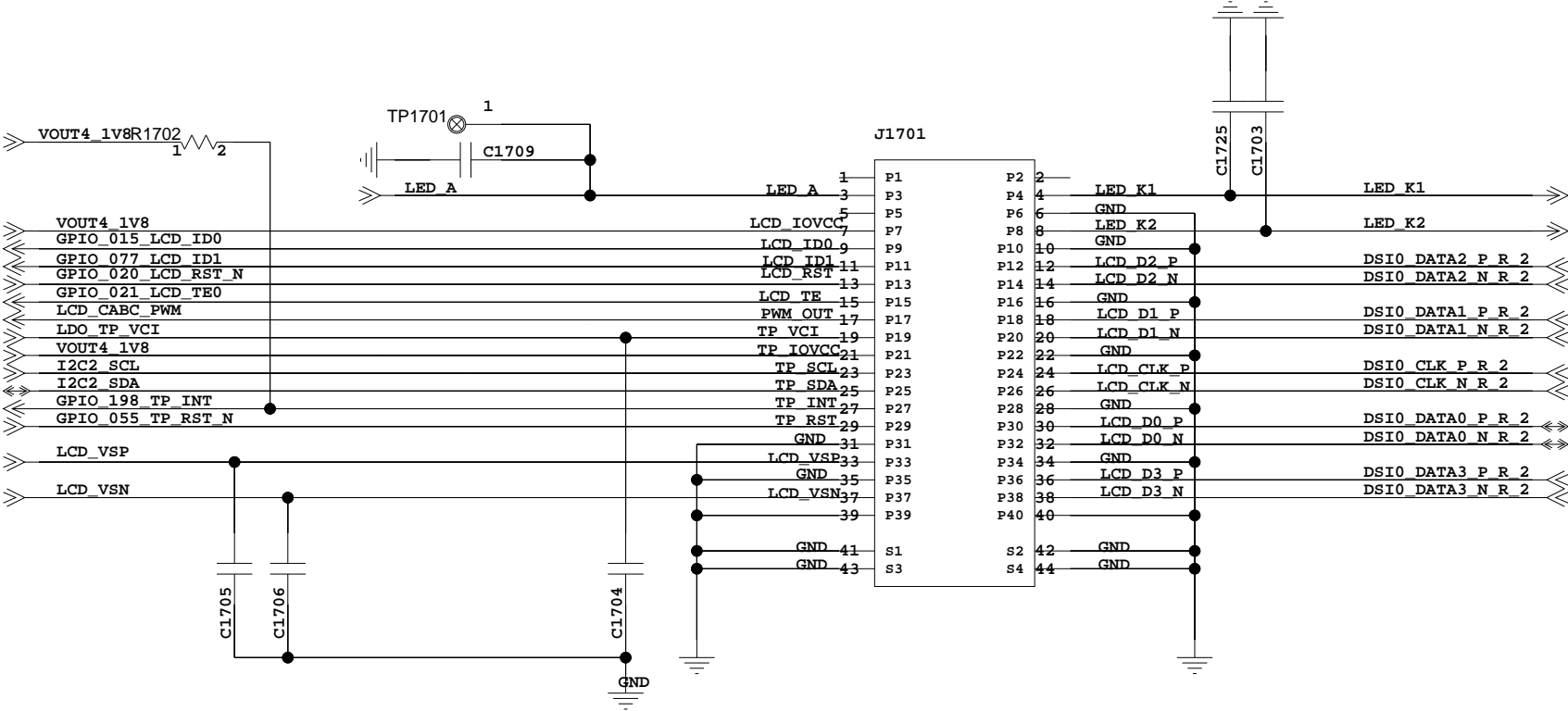
16. Charge and LCD Power



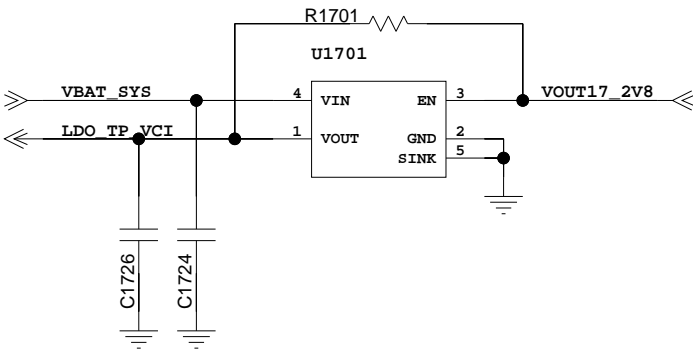
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REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 16_Sch Page 67/200	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

17. LCD Interface



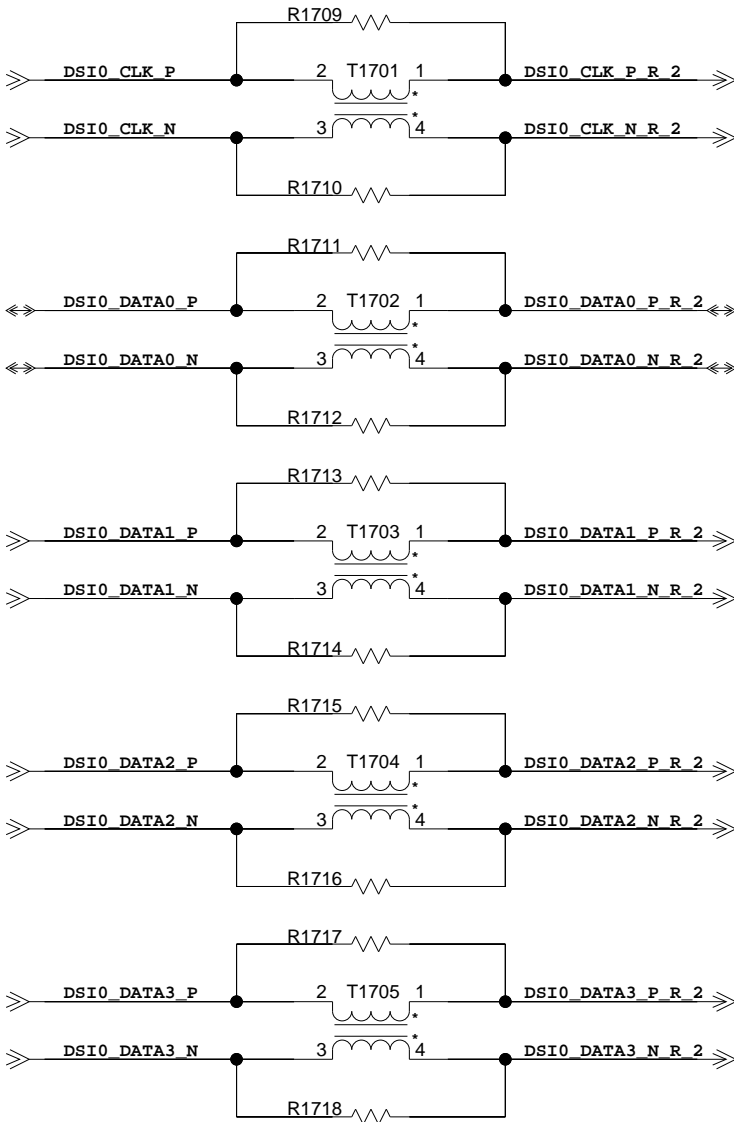
I2C address=0111110(0x3E)



LDO TP VCI

1. C1724, VBAT_SYS, C1724

2. LDO, C1726, C1724, TP_VCI



The type and specification of the components refer to the BOM

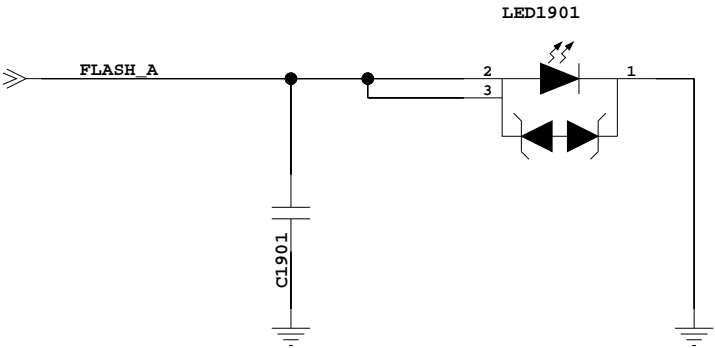
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REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 17 LCD Interface	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

18. DPS_ALS Reserved

The type and specification of the components refer to the BOM

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DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	18_DPS_ALS Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

19. Flash LED



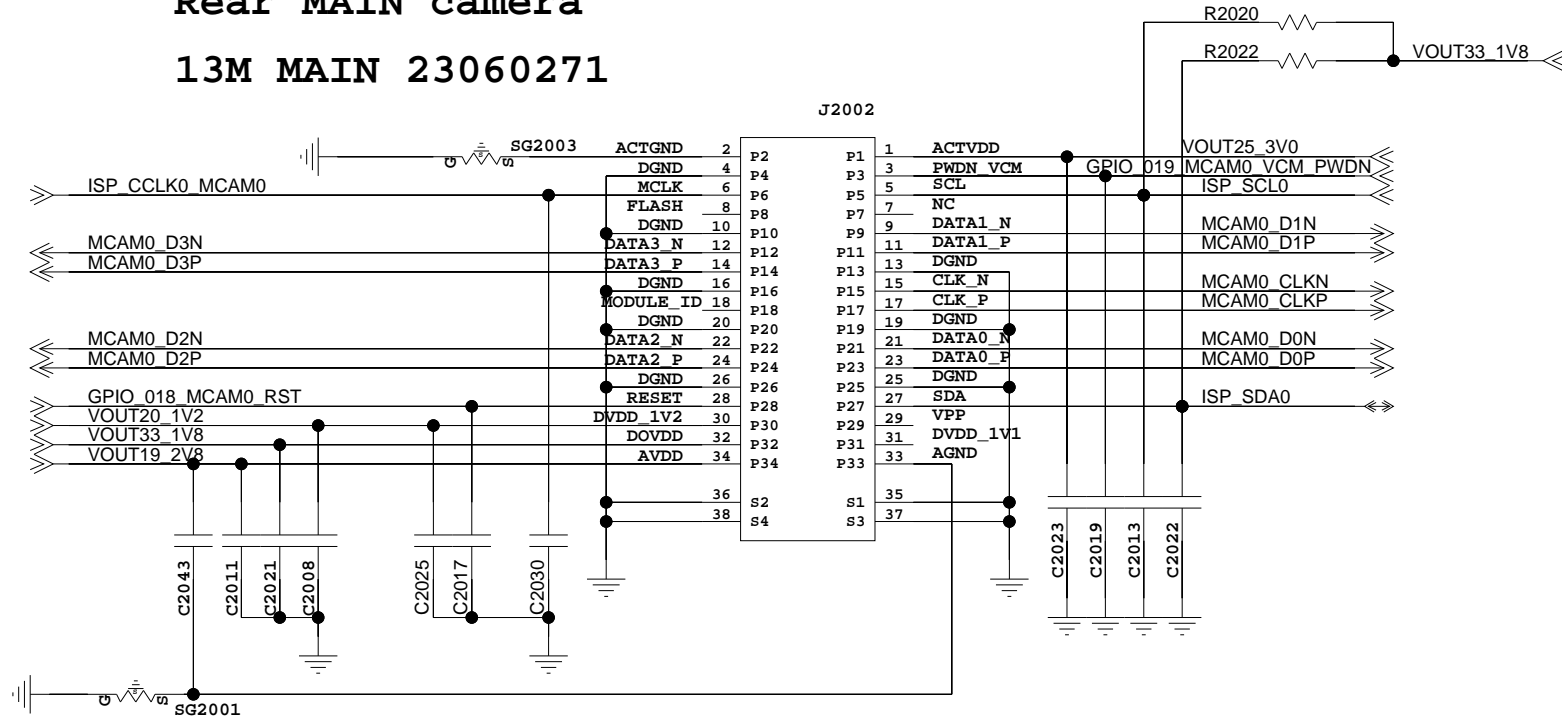
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REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	19_Flash LED
		C	03024XXX	HUAWEI TECH CO.,LTD.	

20. Camera Interface

Rear MAIN camera

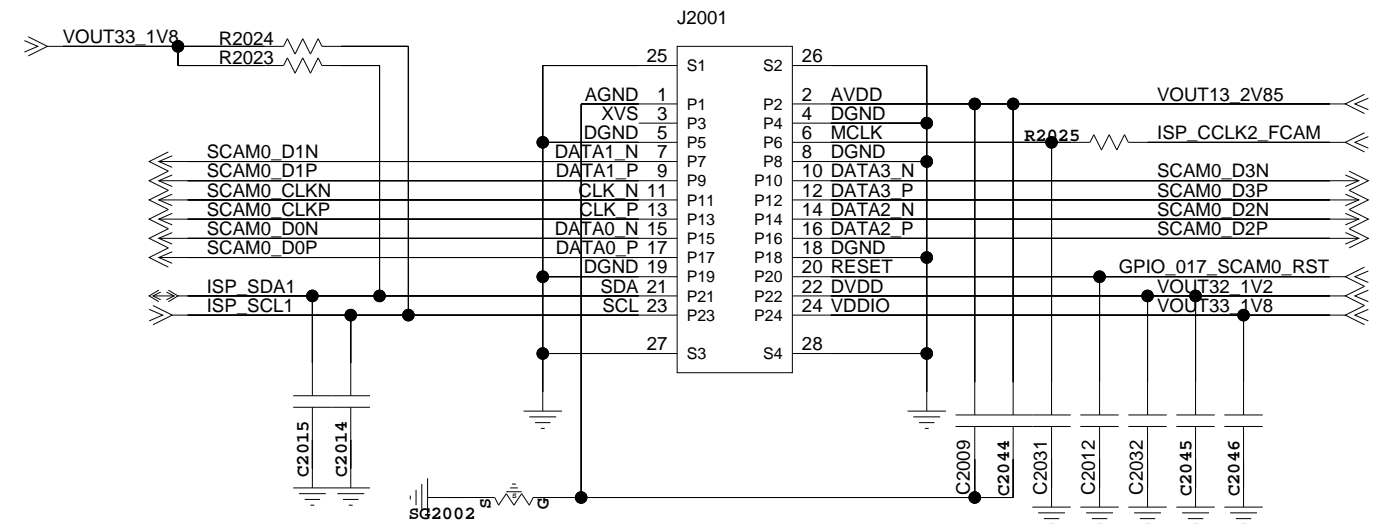
13M MAIN 23060271



Front SUB Camera

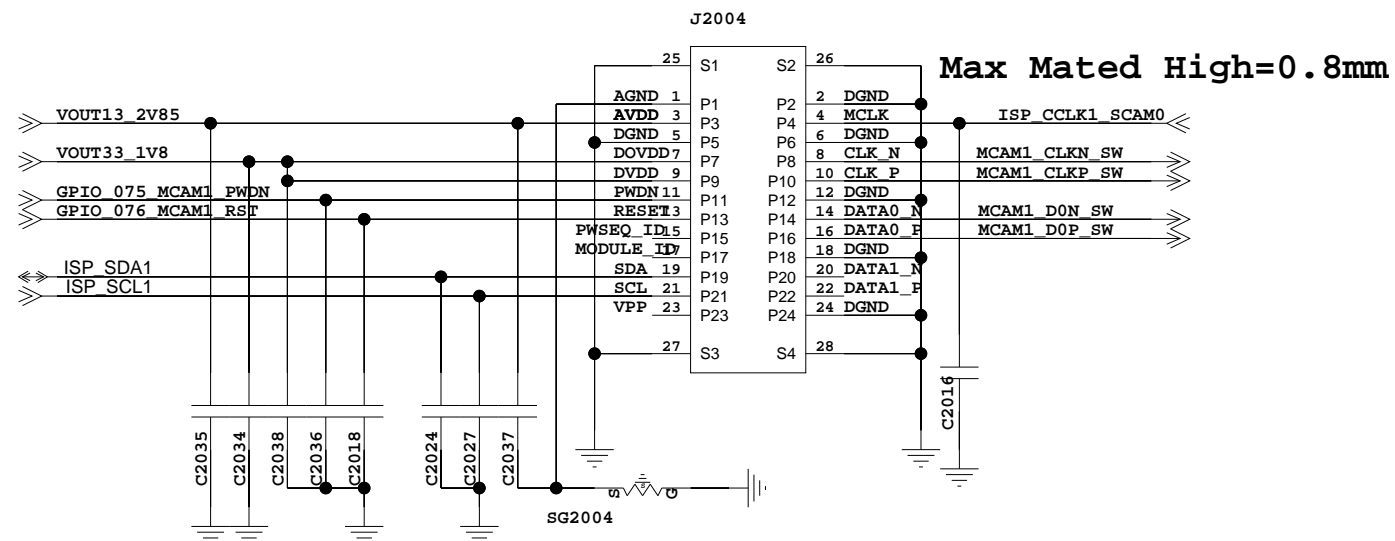
16M Sub 23060300

Max Mated High=0.8mm



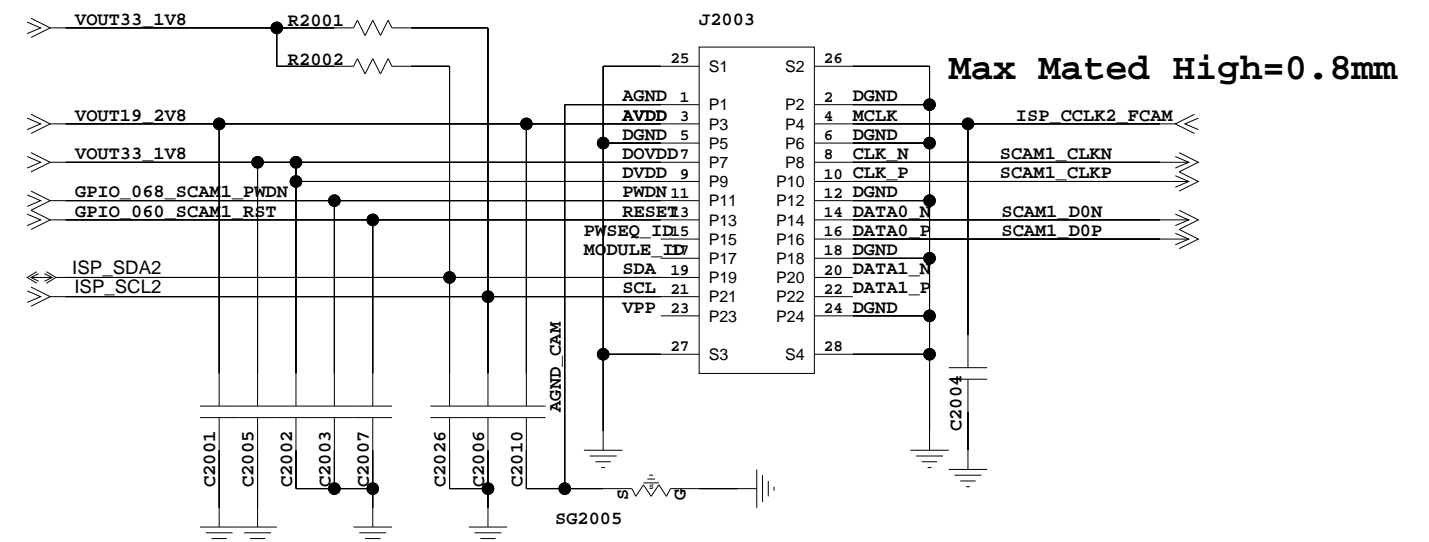
Rear MAIN camera

2M MAIN 23060271



Front SUB Camera

2M SUB 23060276

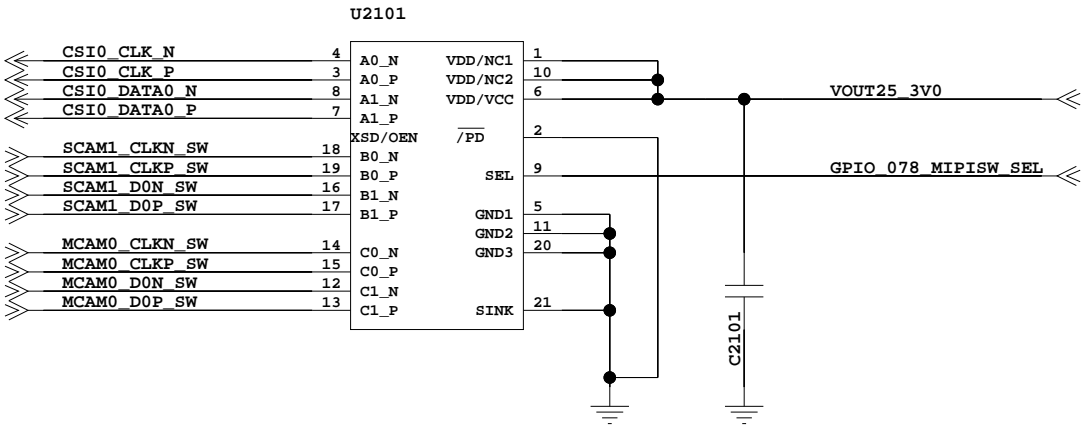


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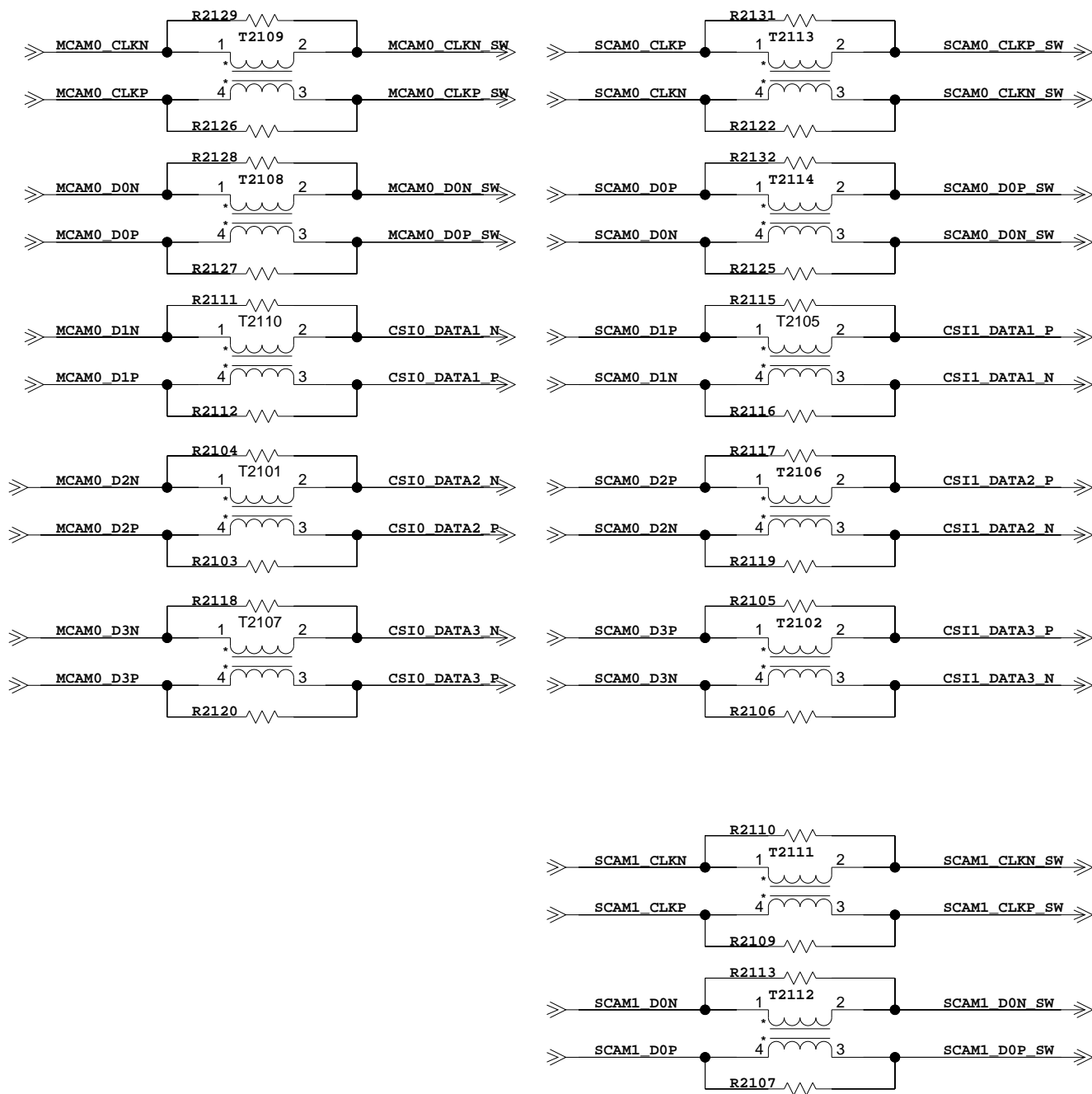
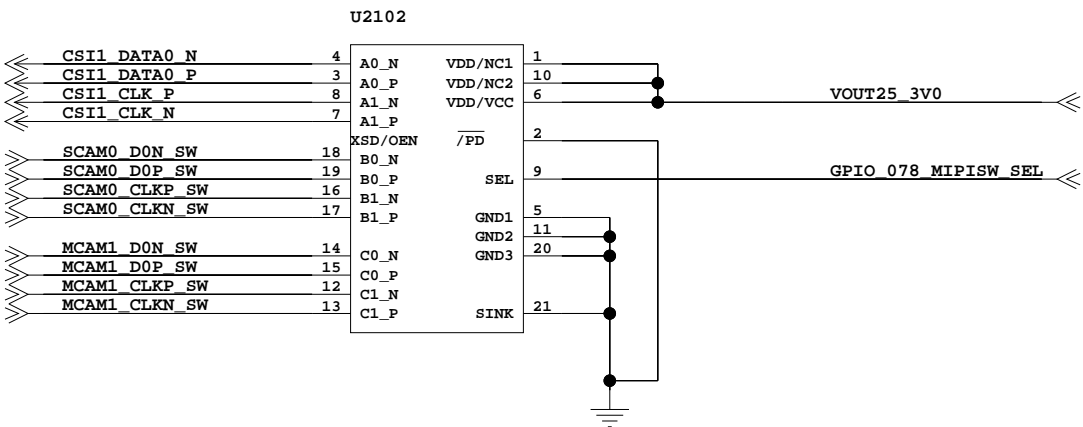
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REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 20_Camera6Interface	
		C	03024xxx	HUAWEI TECH CO.,LTD.	

21. Camera MIPI SWITCH

Rear_13M/Front_2M TO CSI0



Front_8M/Rear_2M TO CSI1



The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 1	OF 1
		C	03024XXX	HUAWEI TECH CO.,LTD.	

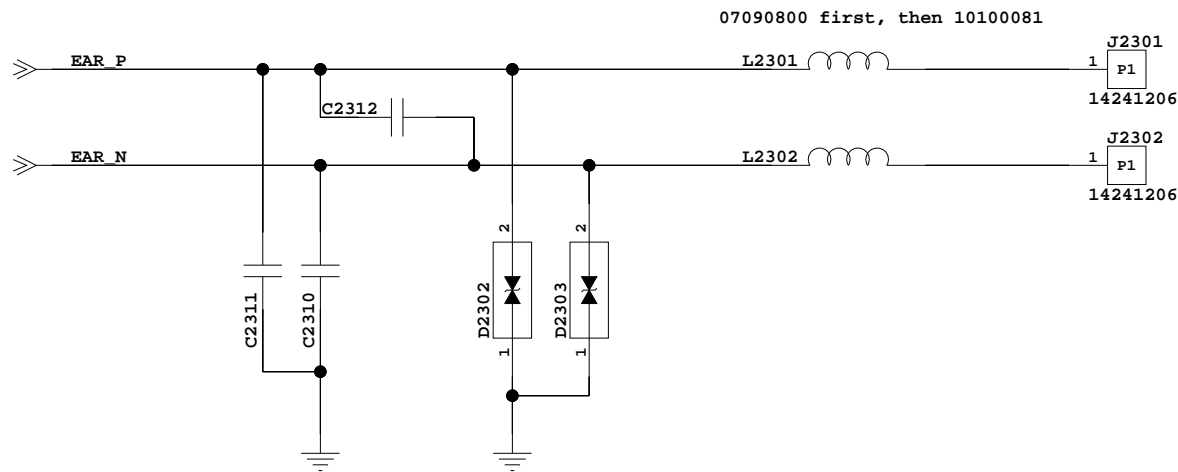
22. Codec Reserved

The type and specification of the components refer to the BOM

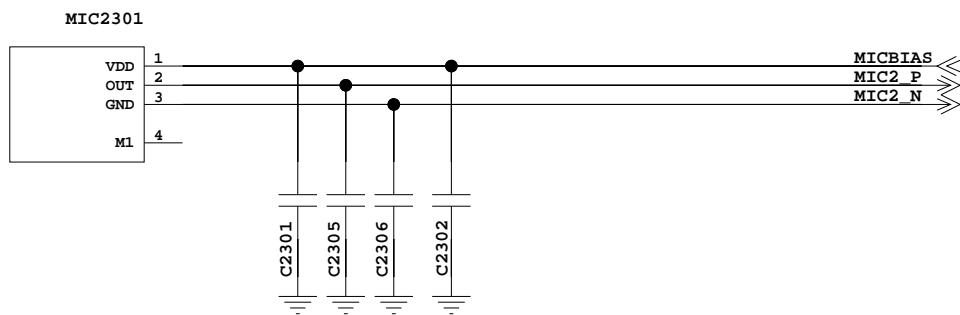
				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 22_Codec Reserved	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

23. Audio RCV/MIC

RCV



Secondary Mic

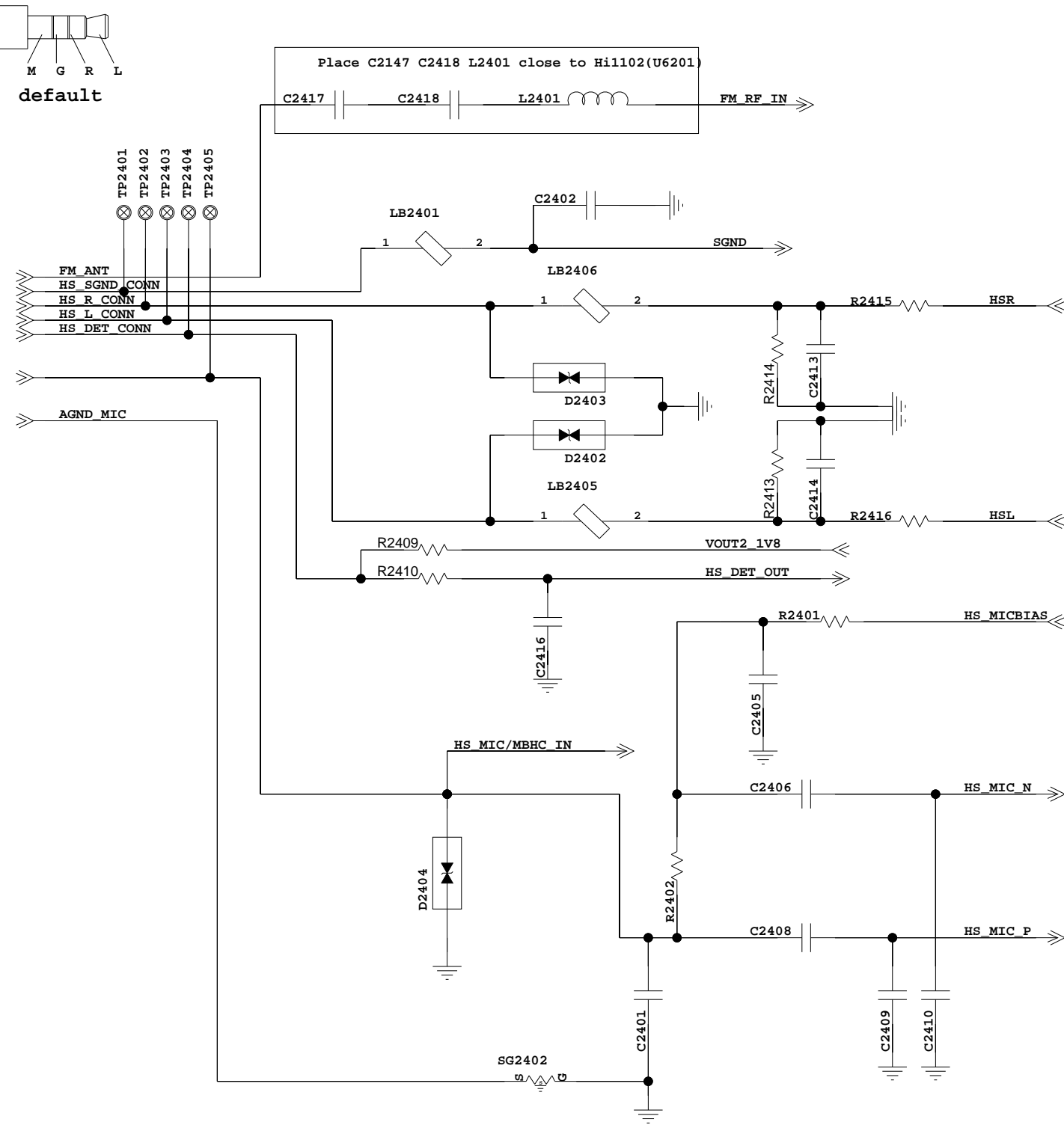


CAD note: MIC need differential trace to the codec
C2305/C2306/C2301 close to MIC

The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 23_Audio RCV/MIC	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

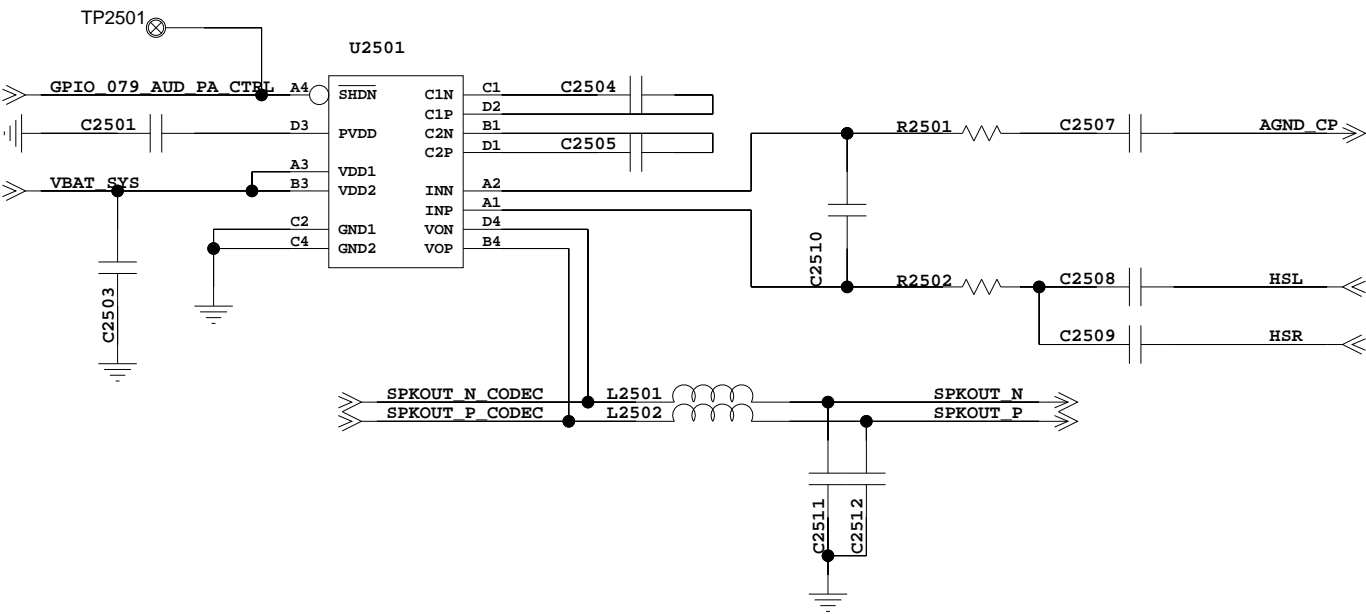
24. Headphone



The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 24_Headphone	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

25. Audio Smart PA



Note:
Use internal Audio PA
SMT L2501, L2502, C2511, C2512
DNI C2501, C2503, U2501, C2504, C2505, C2507, C2509, R2501, R2502

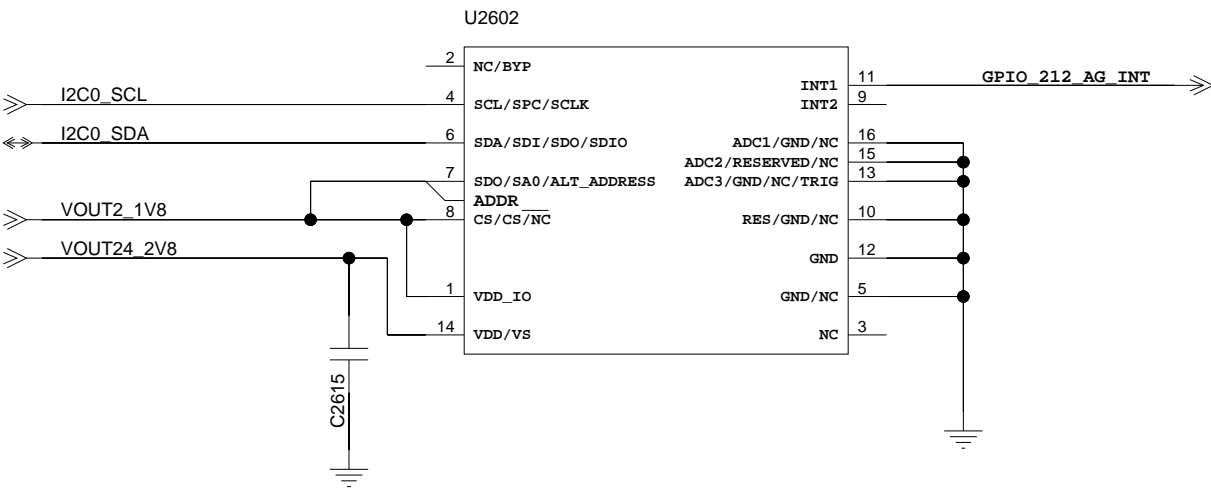
Use External Audio PA
SMT L2501, L2502, C2511, C2512
SMT C2501, C2503, U2501, C2504, C2505, C2507, C2509, R2501, R2502

The type and specification of the components refer to the BOM

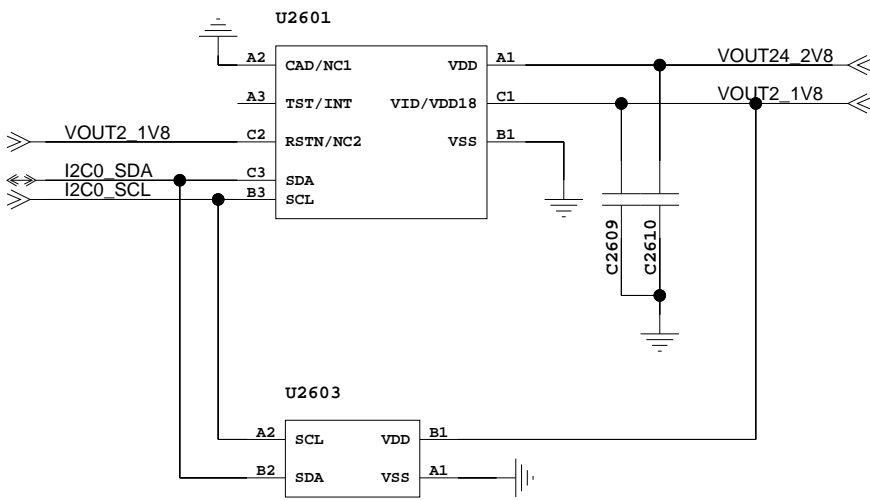
				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 25_Audio Smart PA	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

26. X-Sensor

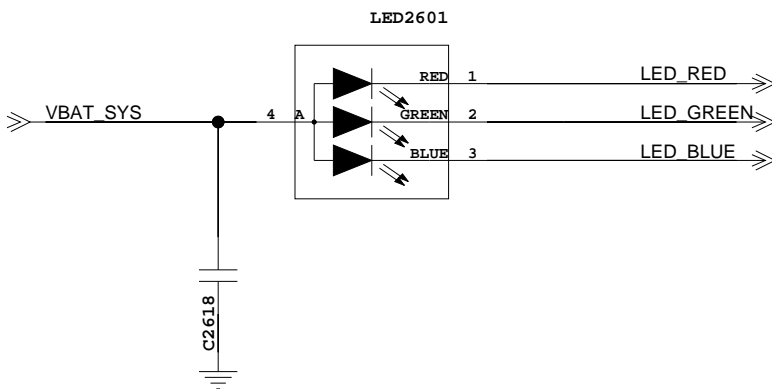
Accelerometer



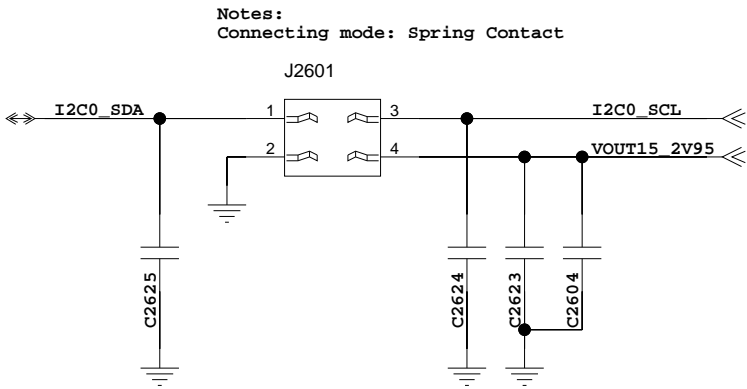
Compass (place together,co-layout)



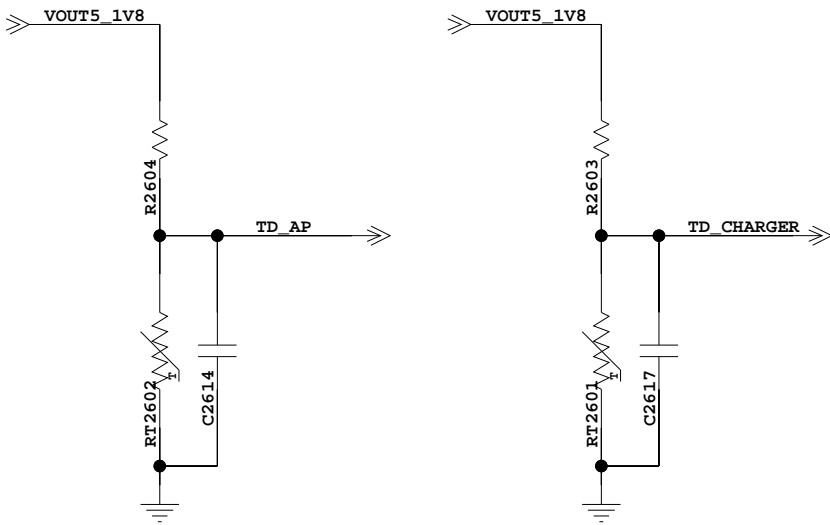
Status indicator



Ambient Light



Hot Area TMP sensor
NTC need to place 5-10mm near Heat Source



AP IC TEMP

Charger IC TEMP

The type and specification of the components refer to the BOM

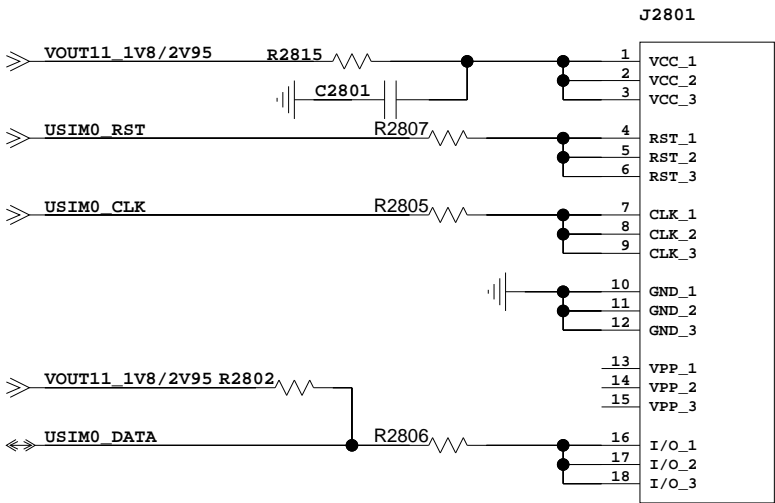
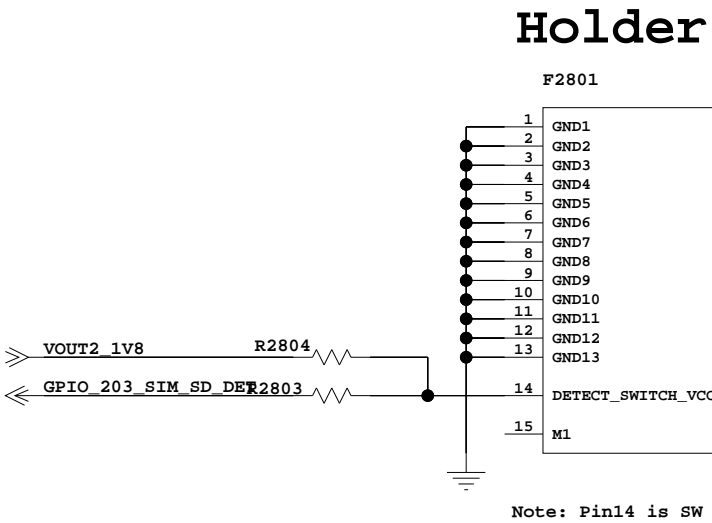
				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 26_X-Sensor	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

27. NXP NFC Reserved

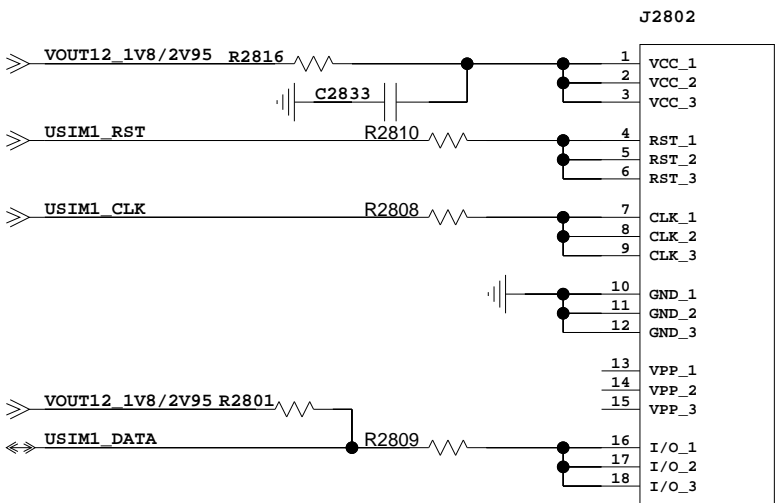
The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 27_NXP NFC 67	Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

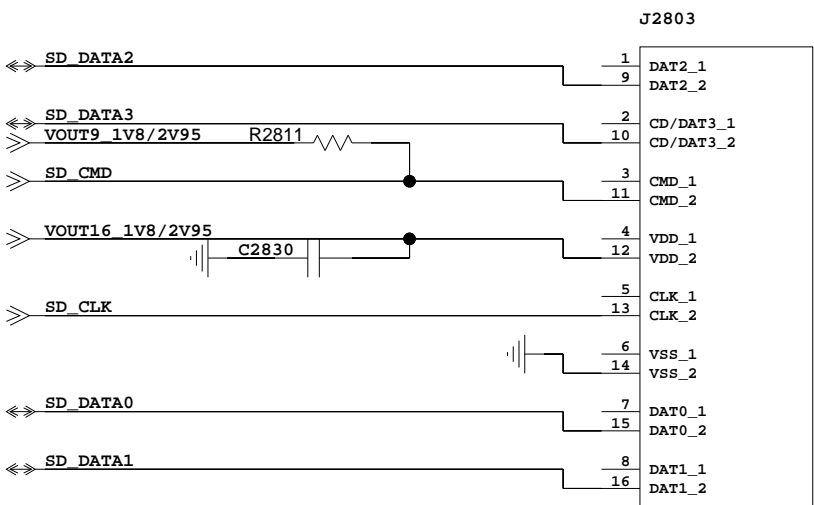
28.SIM/uSD Card



SIM0



SIM1



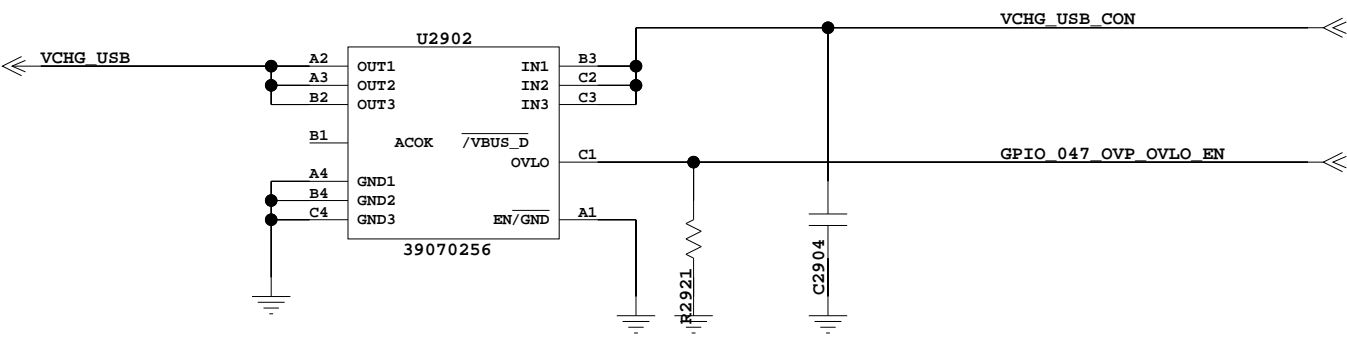
Micro SD

The type and specification of the components refer to the BOM

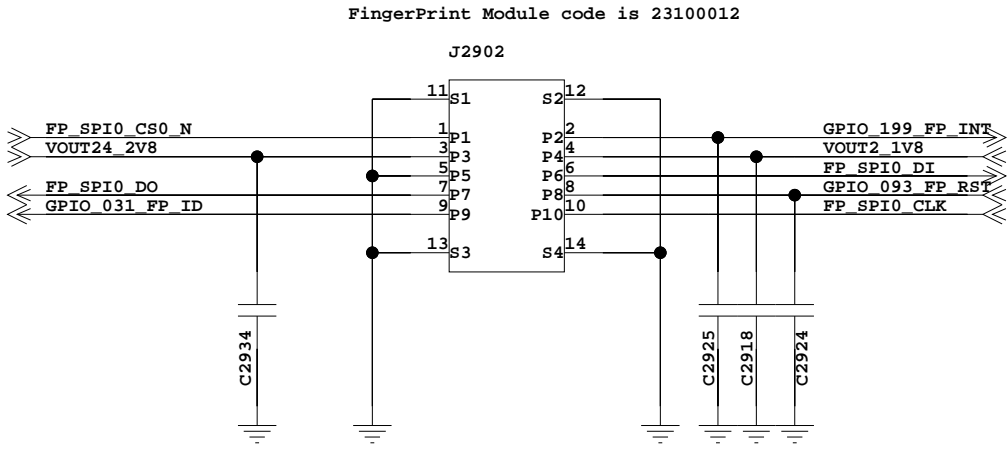
				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	28_SIM uSD Card
		C	03024XXX	HUAWEI TECH CO.,LTD.	

29.FPC Interface

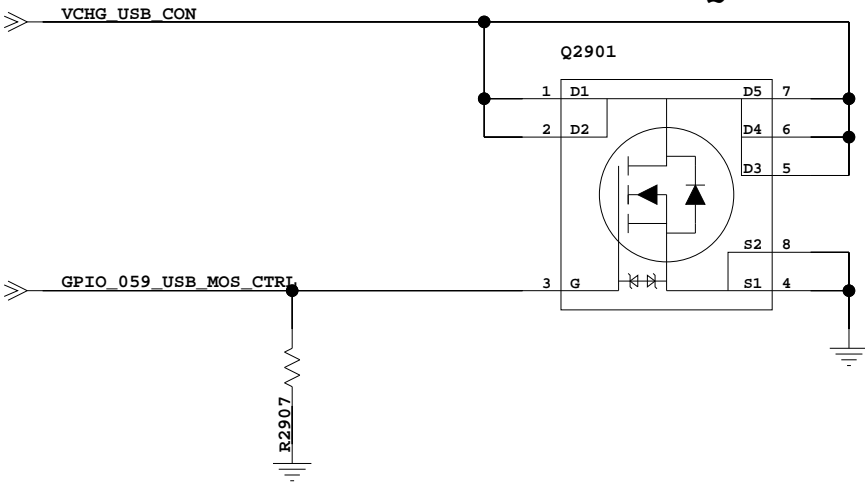
For Protection should be closed to J2901



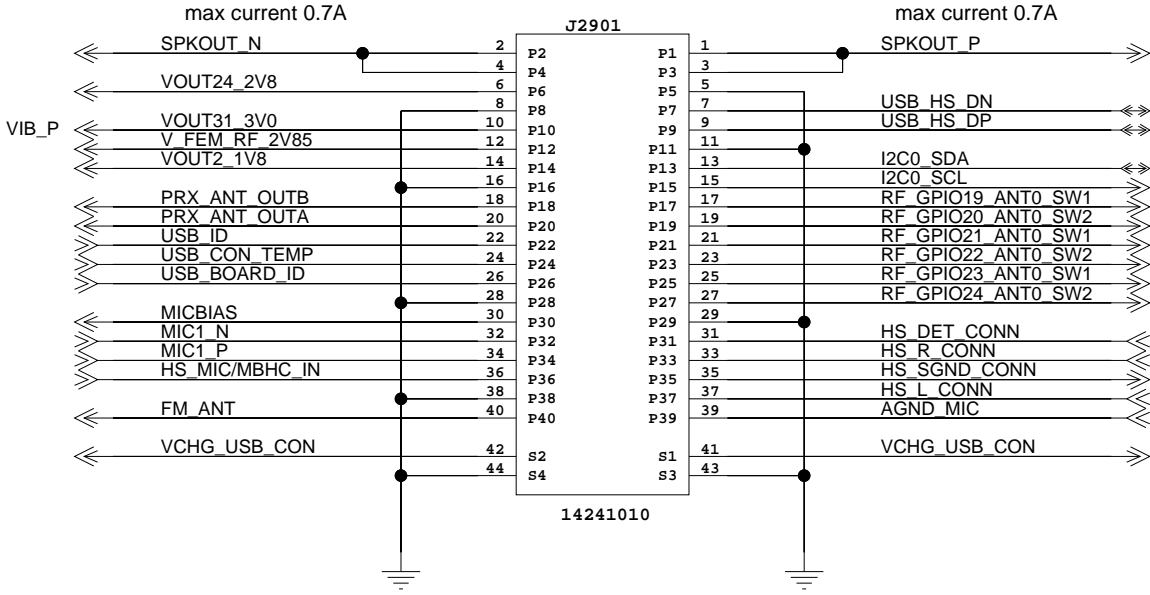
FingerPrint BTB



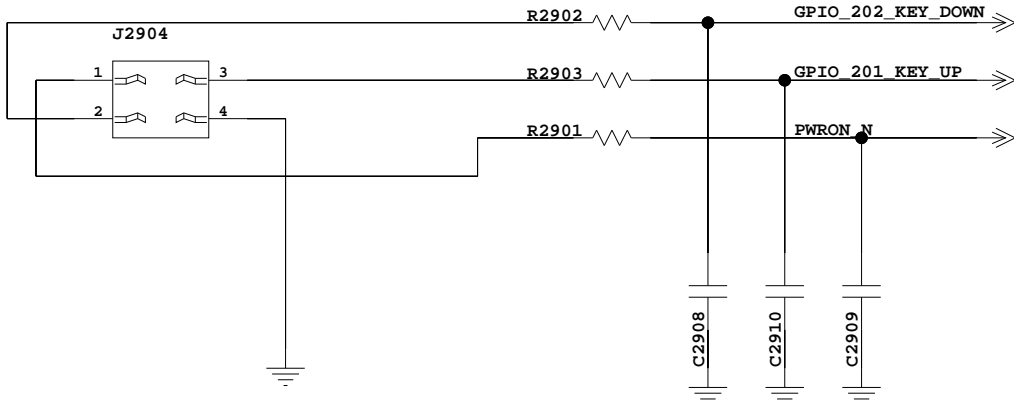
Must close Q2901 to J2901



Main FPC BTB



KEY BTB

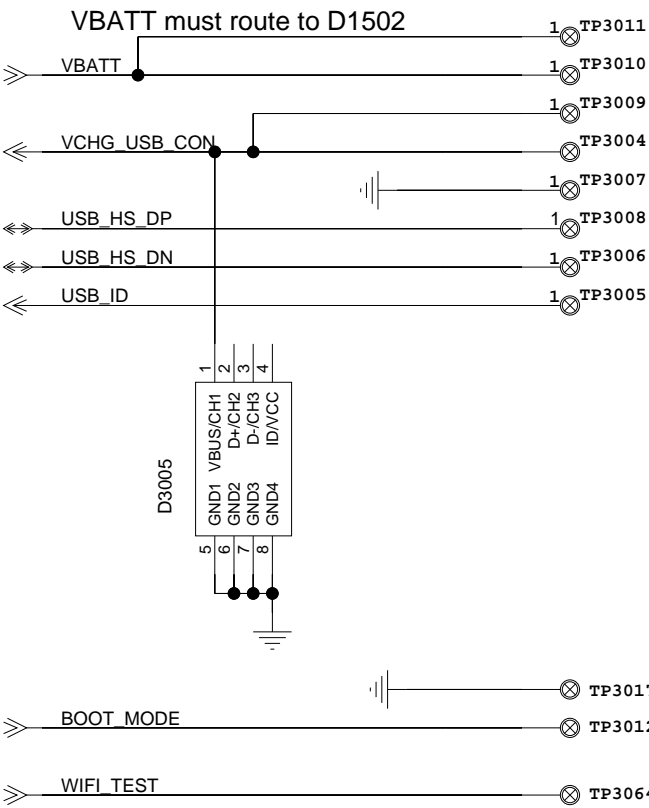
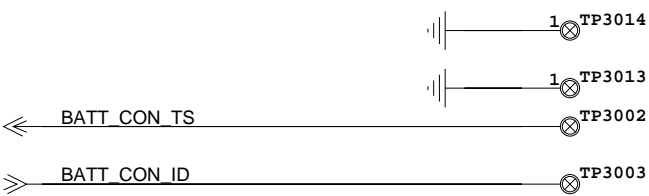


The type and specification of the components refer to the BOM

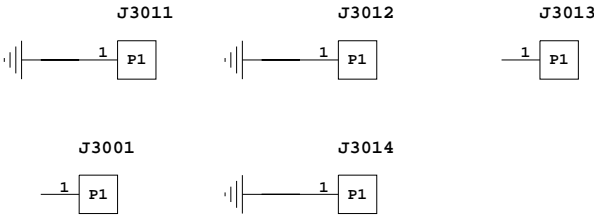
				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 29_FPC Interface	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

30. Test Points/Shields

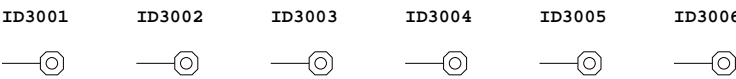
CT BT



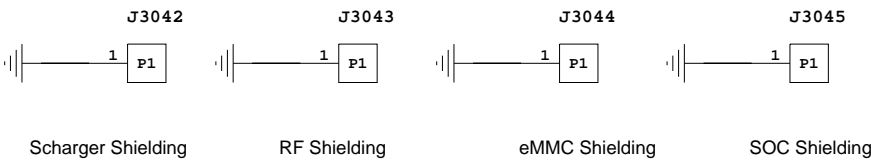
HOLE



MARK POINT



Shielding



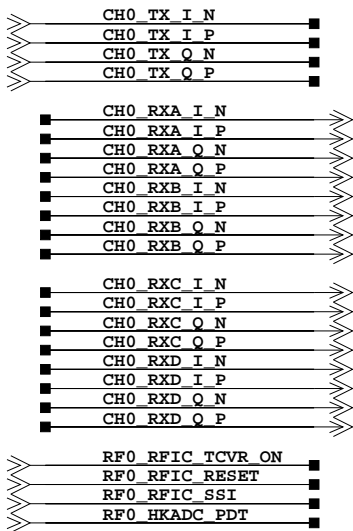
The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 30_Test Points/Shielding	
		c	03024XXX	HUAWEI TECH CO.,LTD.	

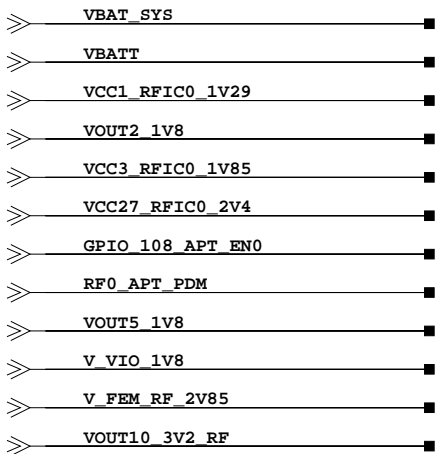
31.RF Interface

- 32_RF Transceiver0
- 33_APT Power
- 34_Primary ASM
- 35_RF SWITCH
- 36_MMMB PA SKY77643
- 37_MATCHING_CIRCUIT_of_MMMBPA
- 38_TRX B1_DUP_2
- 39_TRX B1/B3_DUP_4
- 40_TRX B2/PRX_GSM1900/B34_PRX
- 41_TRX_B28L/B28H/B20
- 42_Reserved
- 43_PRX_G1800
- 44_TRX B5/BC0/B8
- 45_Reserved
- 46_Reserved
- 47_TRX B40
- 48_TRX B7
- 49_TX_B41/PRX_B39+41
- 50_Diversity_ASM
- 51_DRX SAW B7
- 52_DRX_B34
- 53_DRX_B40
- 54_DRX B1+3
- 55_DRX B5/BC0/B8
- 56_DRX_B28
- 57_DRX_B39/B41
- 58_Reserved
- 59_Reserved
- 60_HI1102 POWER
- 61_HI1102 RF
- 62_HI1102 BB_1
- 63_HI1102 POWER_1
- 64_Reserved
- 65_Reserved
- 66_ANT TUNER
- 67_ANTENNA MATCH_1
- 68_Reserved

RFIC0 IQ



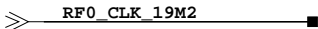
Power



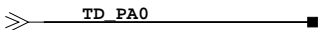
APC



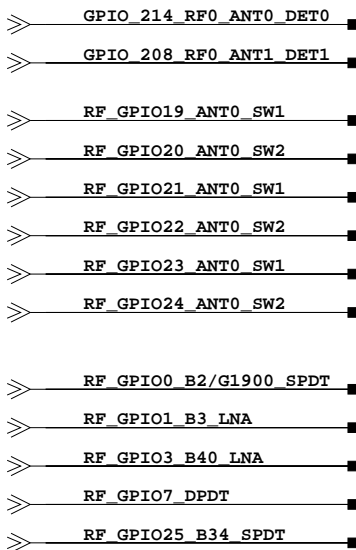
CLOCK



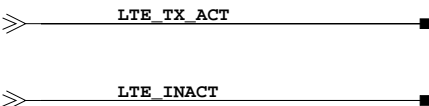
PA temperature



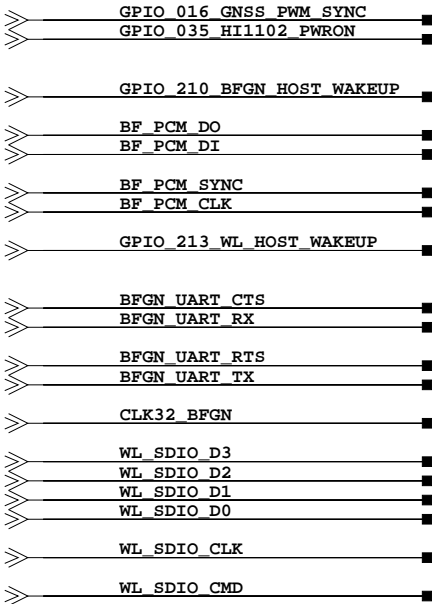
GPIO Interface



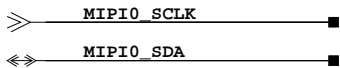
LTE WIFI COEXT



NC



MIPI Interface

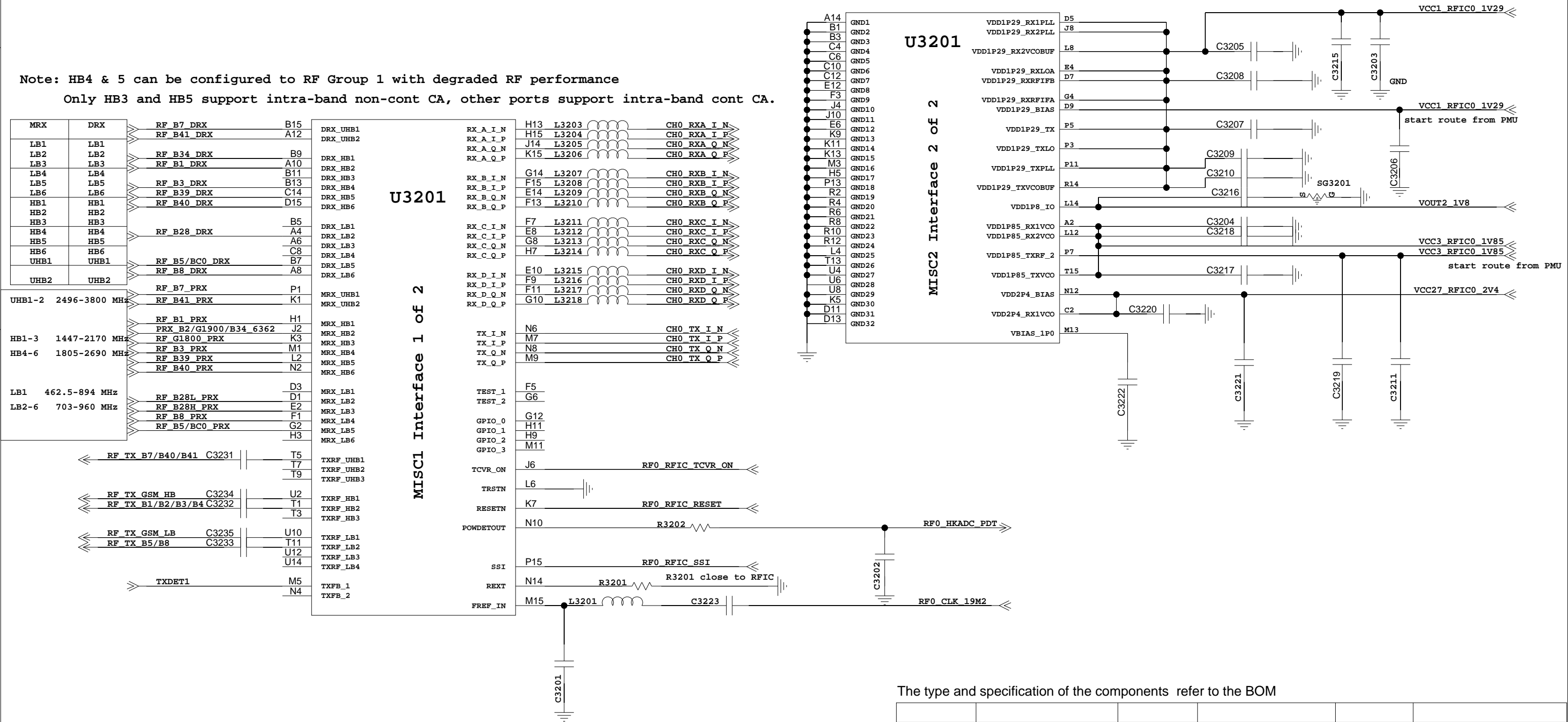


The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 31_RF Interface	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

32_RF Transceiver0

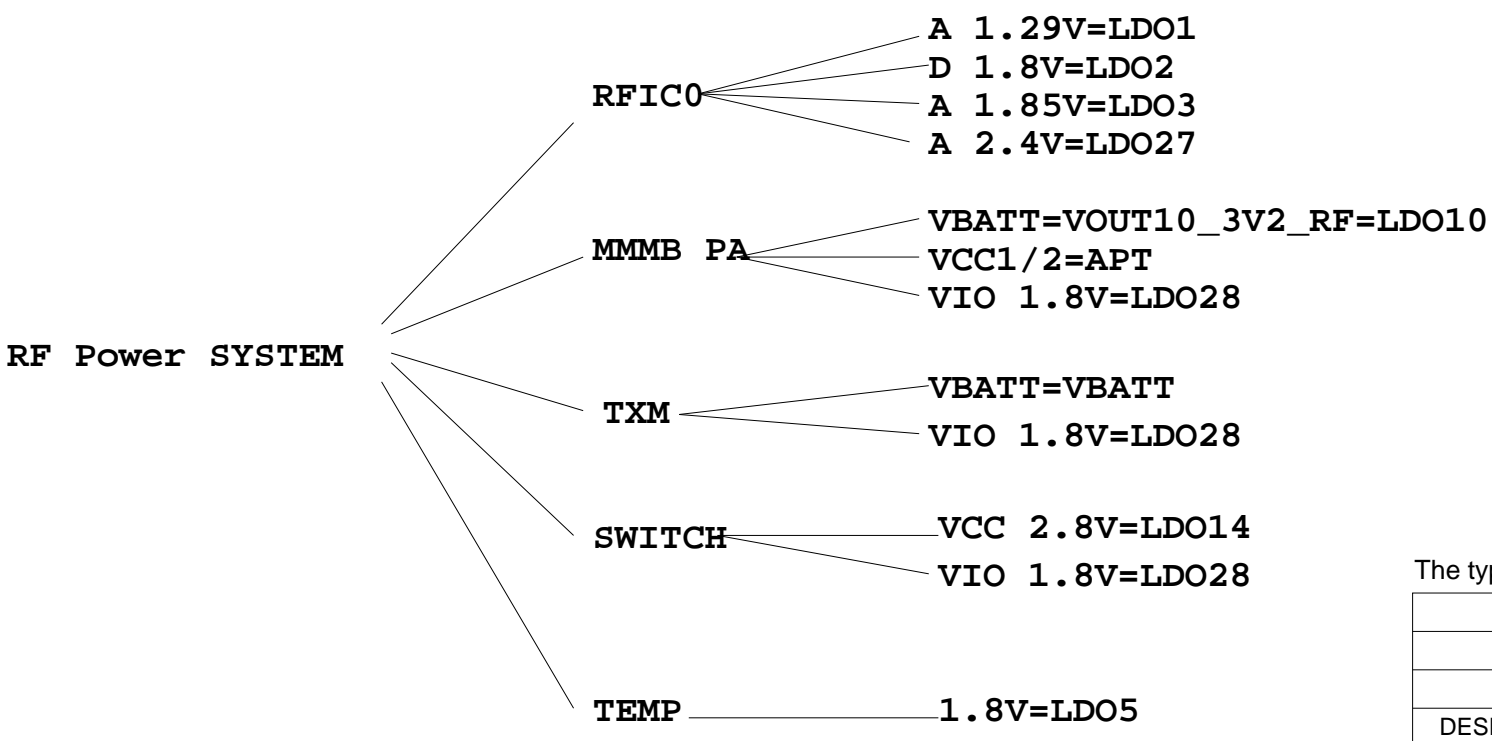
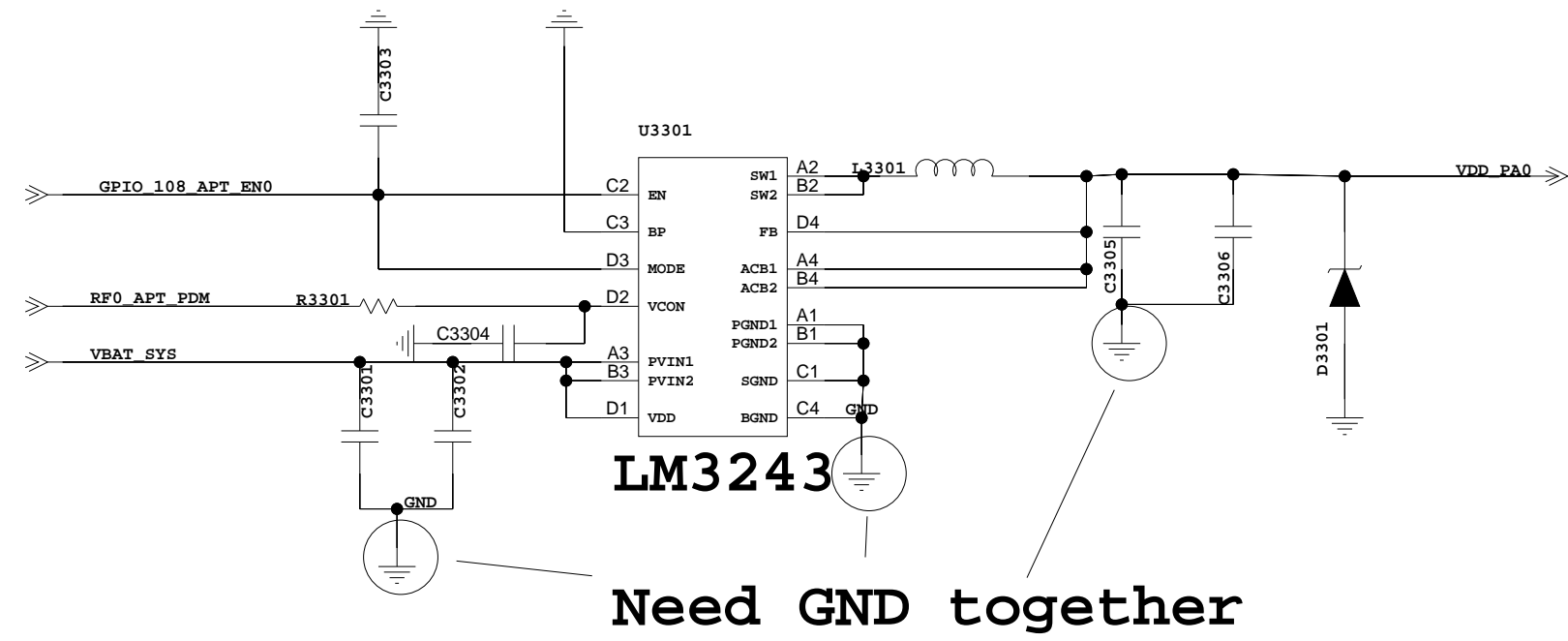
Note: HB4 & 5 can be configured to RF Group 1 with degraded RF performance
Only HB3 and HB5 support intra-band non-cont CA, other ports support intra-band cont CA.



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 32_RF Transceiver0	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

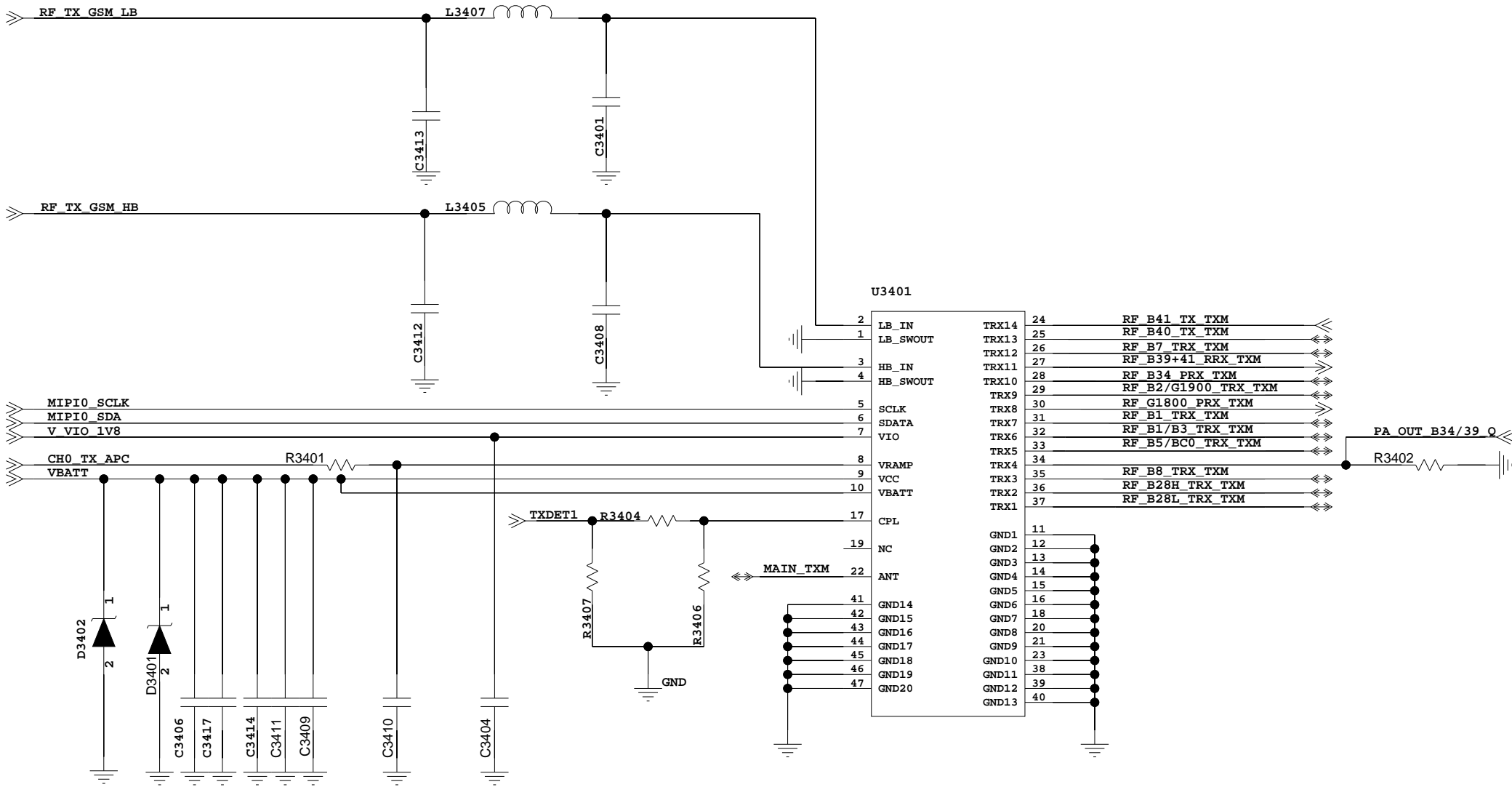
33.APT Power



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 33_APT Power	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

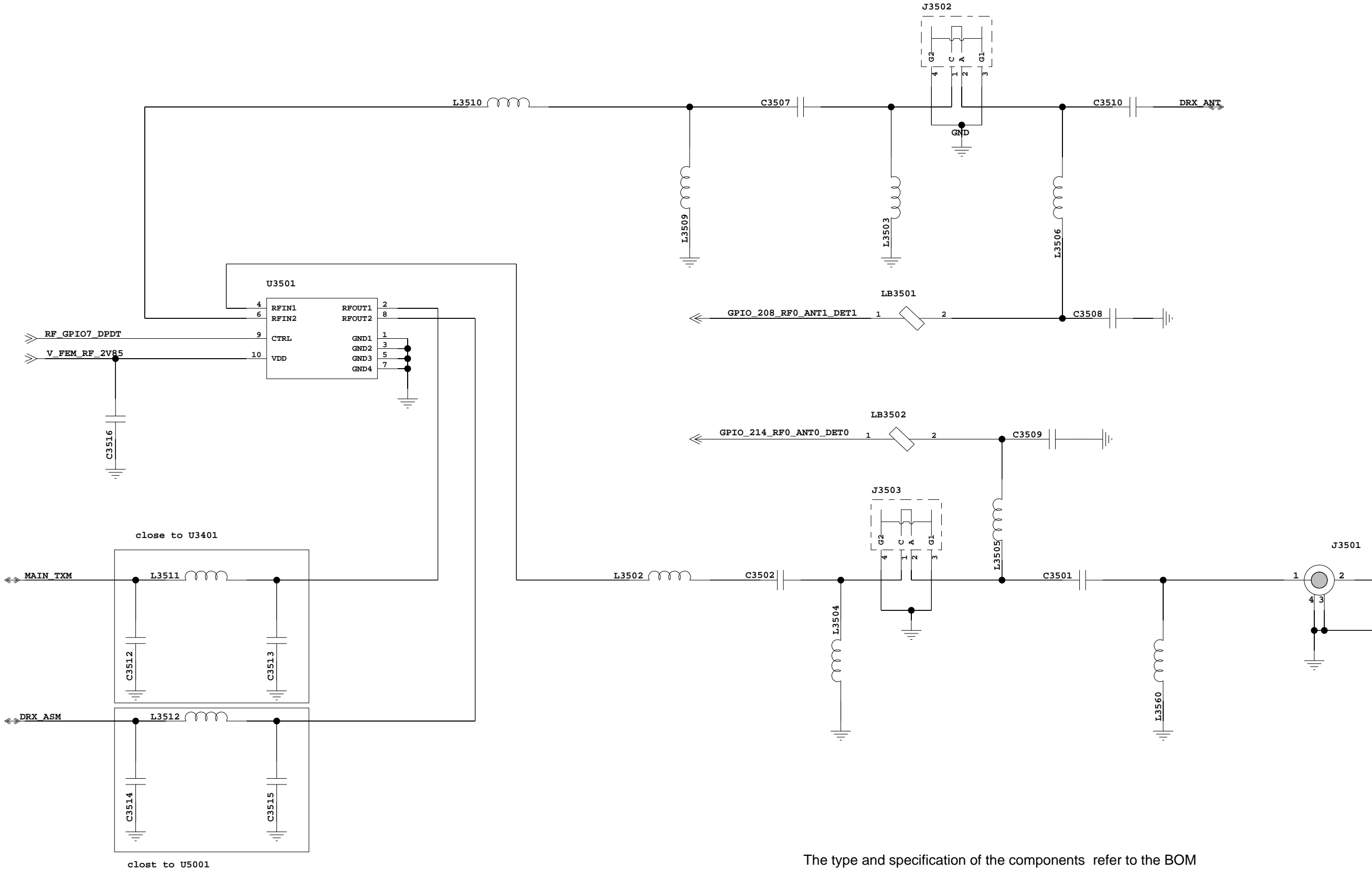
34_Primary ASM



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 34_Primary ASM 67	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

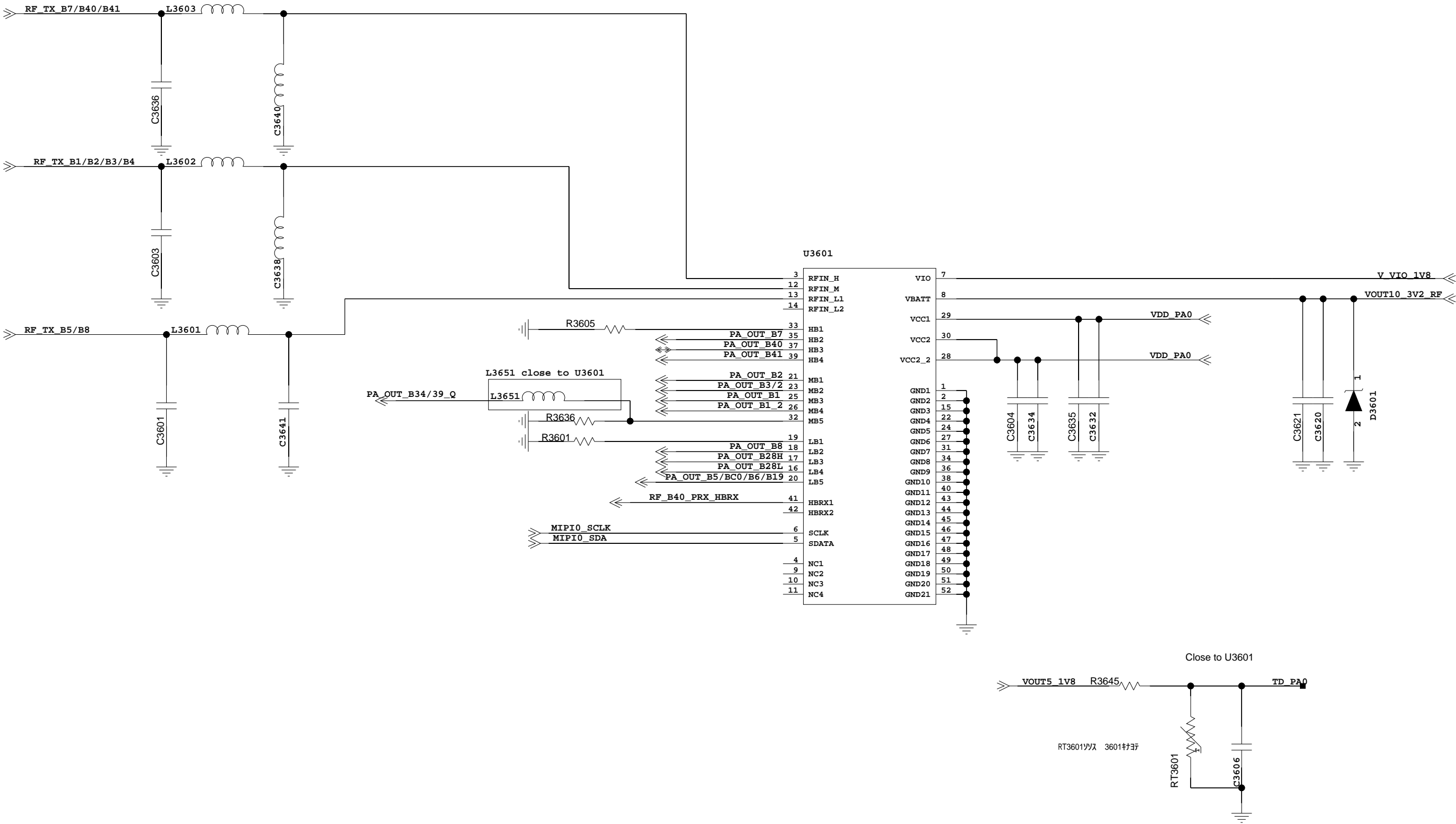
35_RF SWITCH



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 35_RF SWITCH	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

36_MMPA

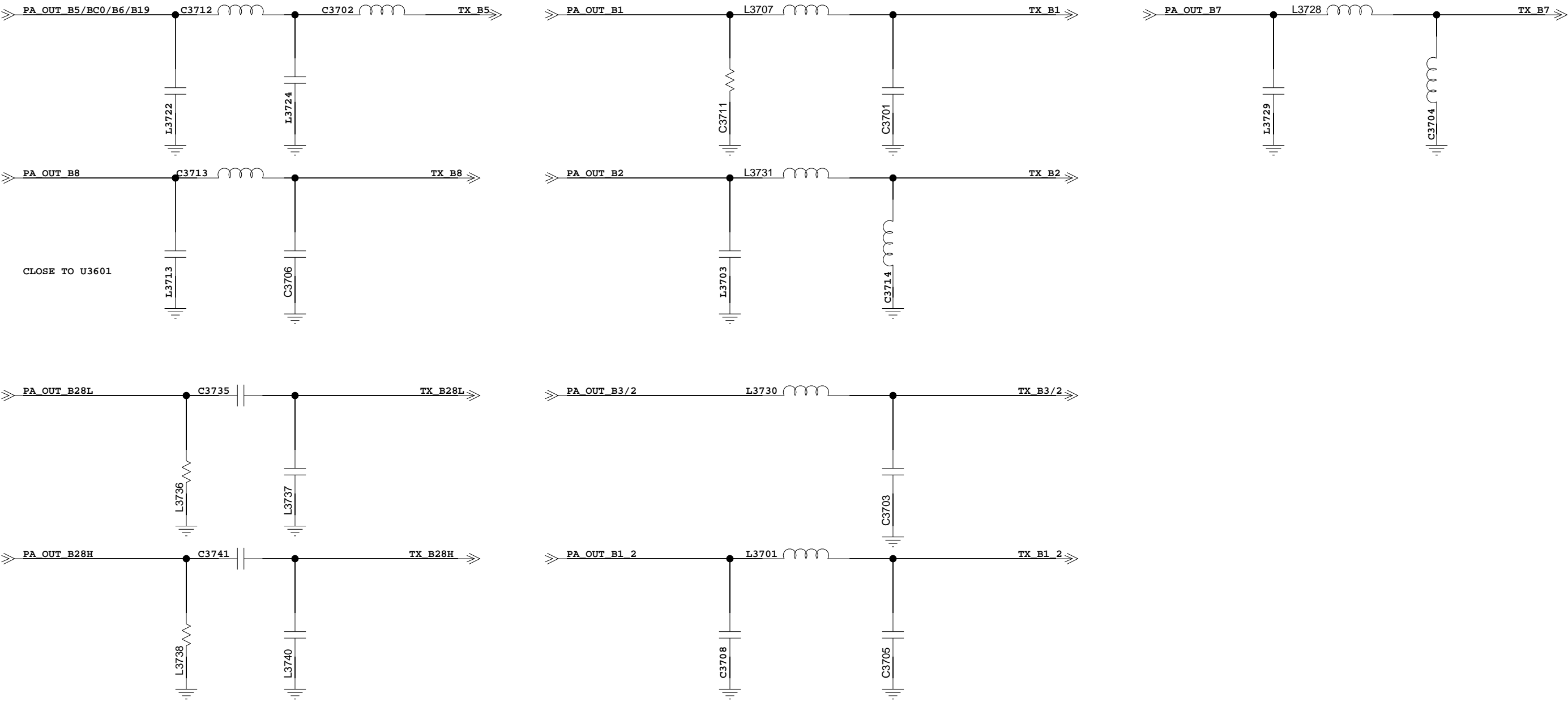


The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 36_MMPA 67	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

37_MATCHING_CIRCUIT_of_MMMBPA

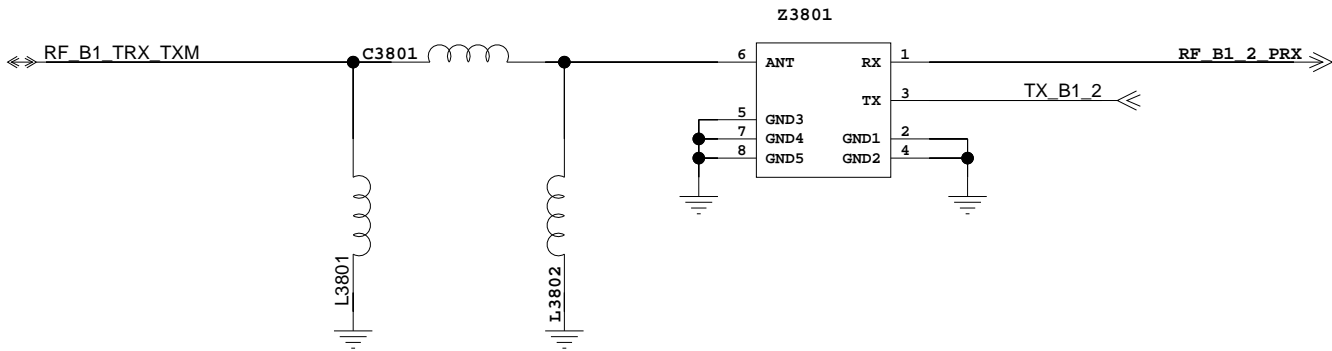
ALL Close to U3601



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 37_MATCHING_CIRCUIT_of	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

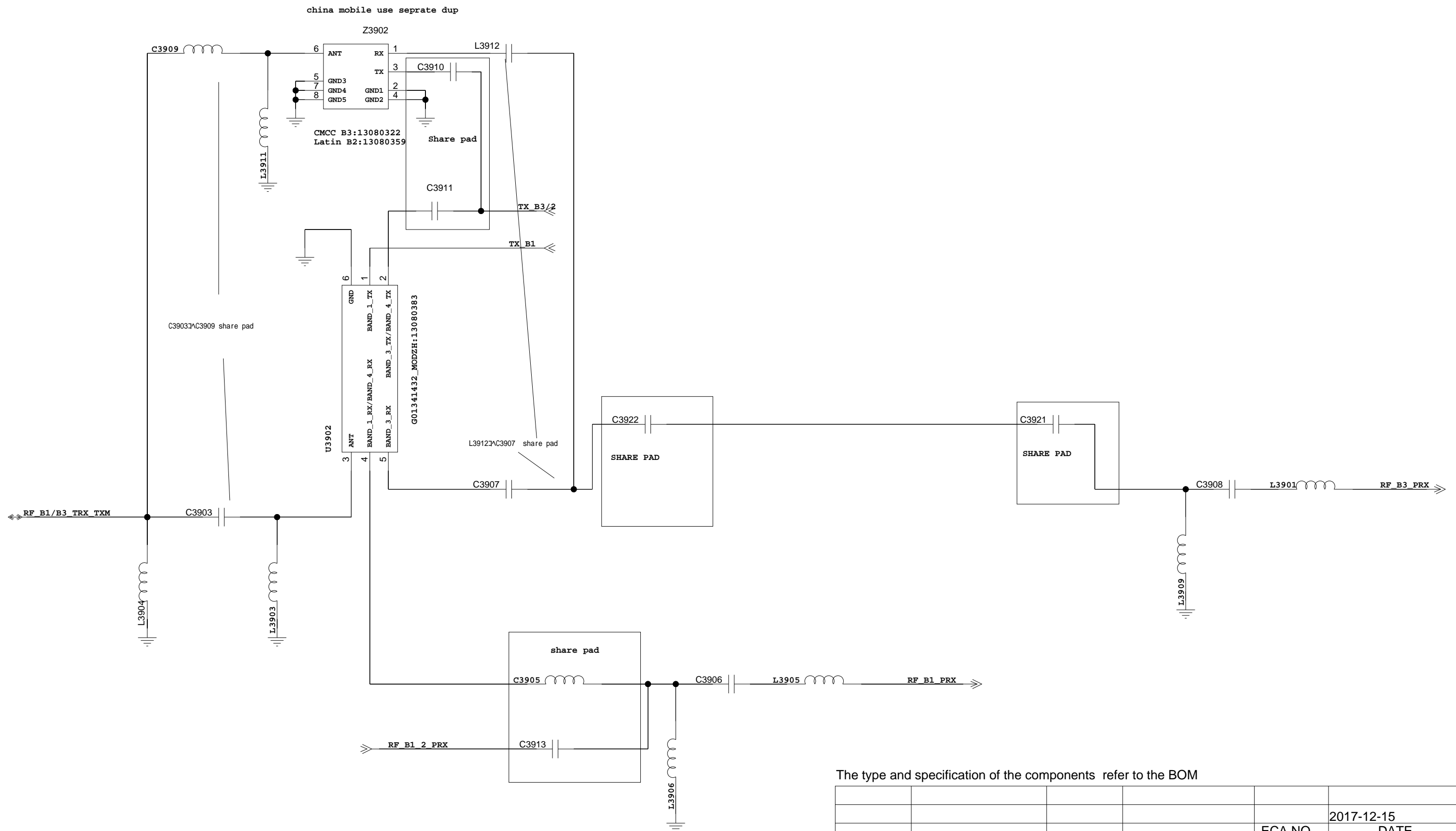
38_TRX_B1_dup2



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	38_TRX_B1_dup2
		C	03024XXX	HUAWEI TECH CO.,LTD.	

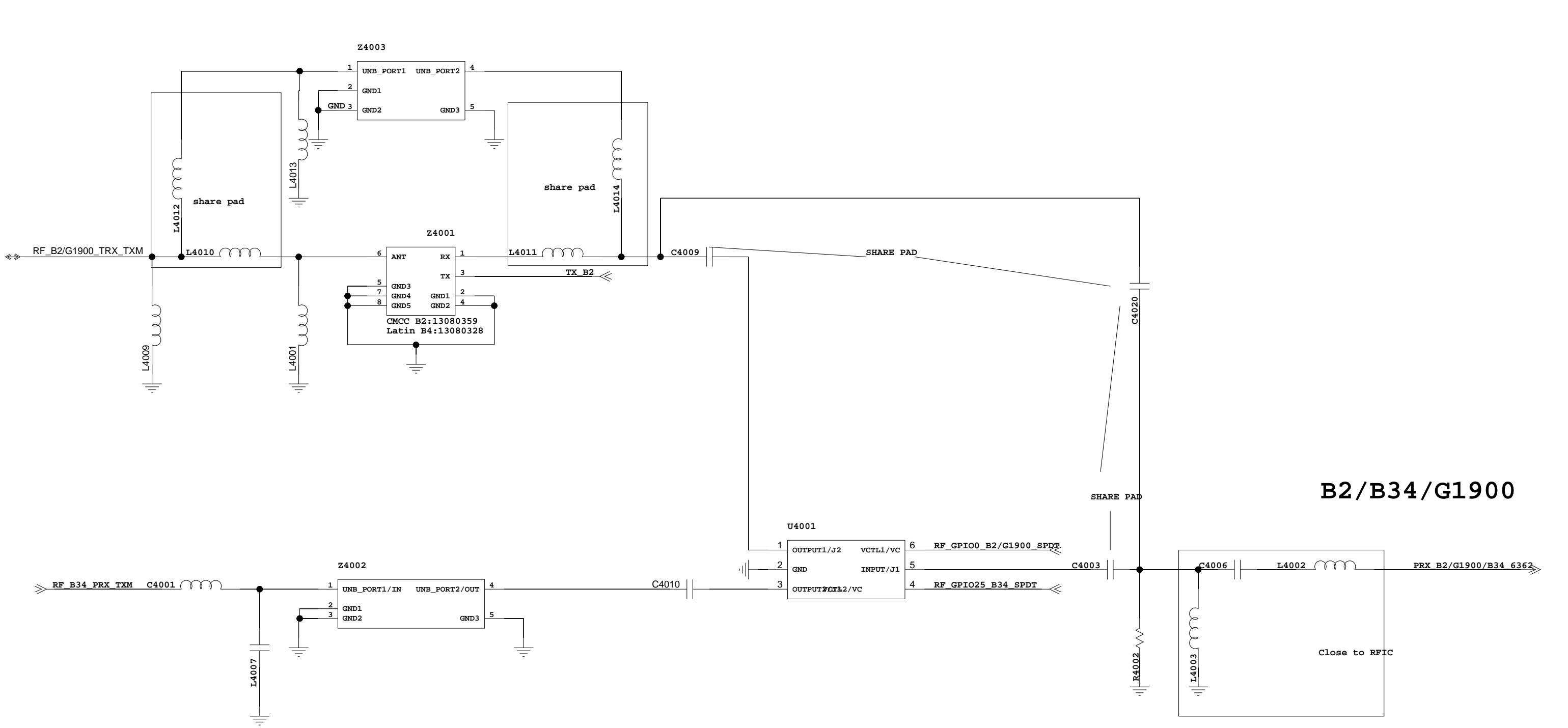
39_TRX B1/B3



The type and specification of the components refer to the BOM

					2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	39_T0FB1/63_dup_4
		C	03024XXX	HUAWEI TECH CO.,LTD.	

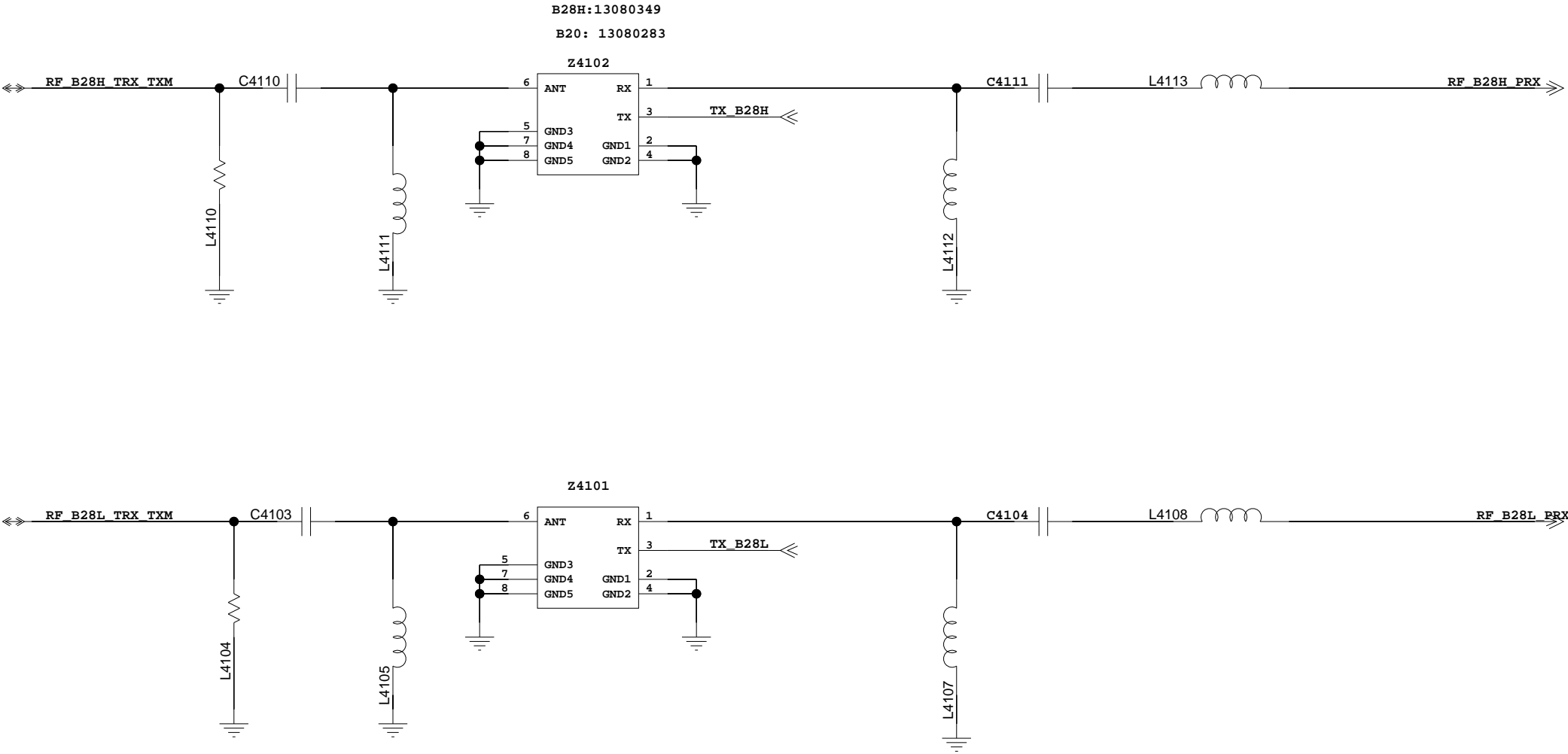
40_TRX B2/PRX_GSM1900/B34_PRX



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 40_TRX B2/PRX_GSM1900/B34_PRX	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

41_TRX_B28L/B28H/B20



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 41_TRX_B28L/B28H/B20	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

42_Reserved

A

B

C

D

1

2

3

4

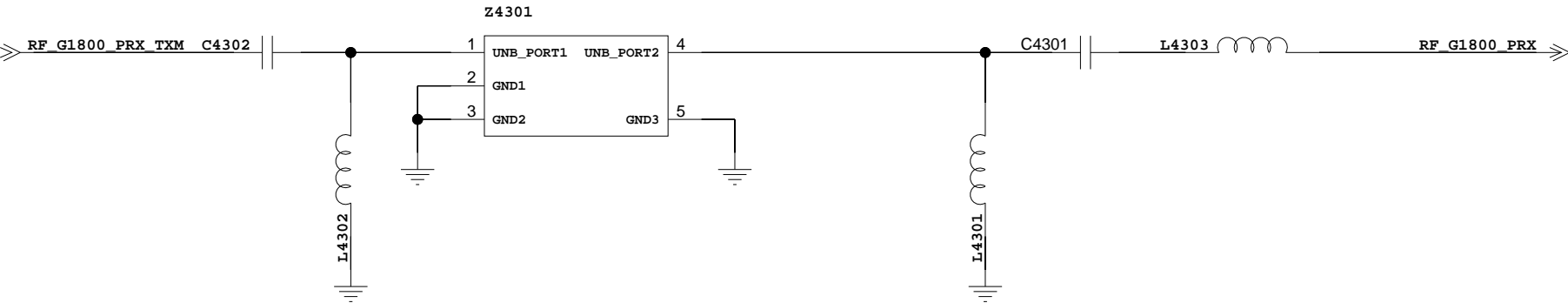
5

6

The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	42_Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

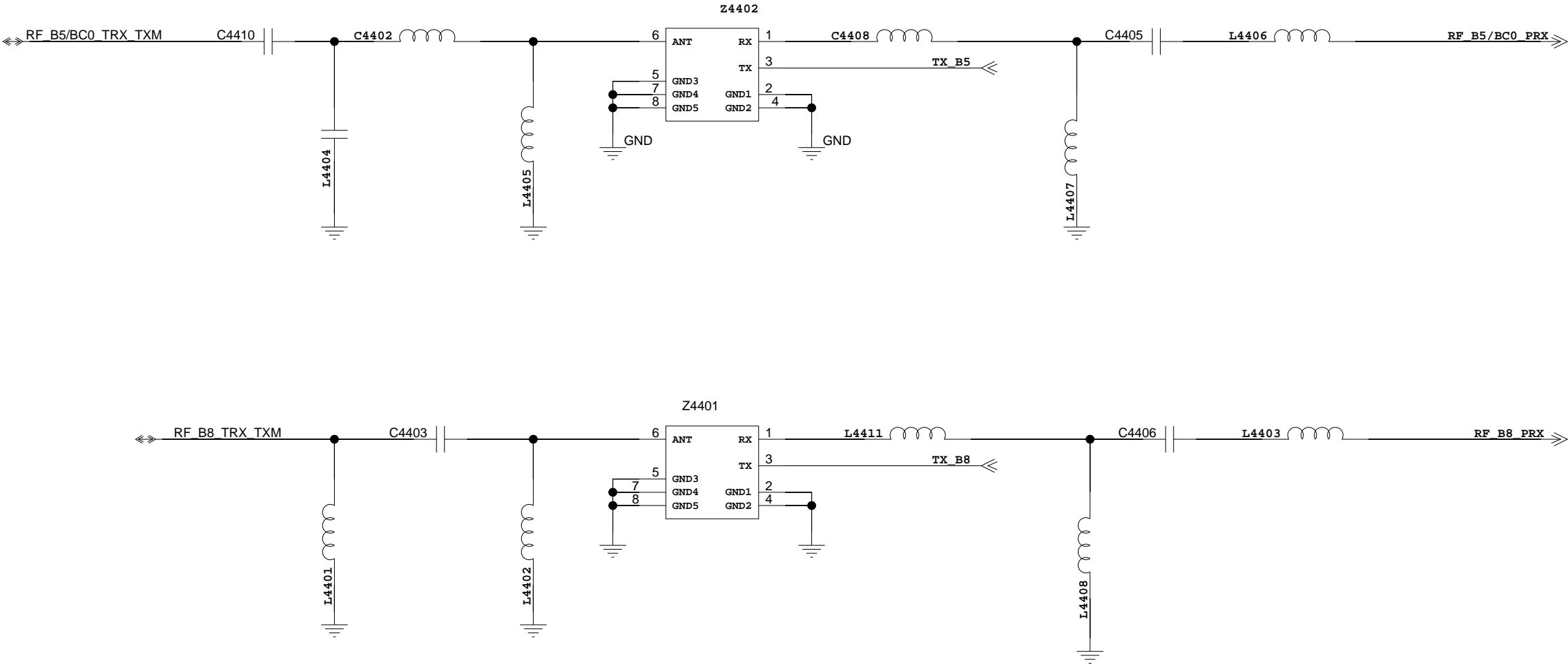
43_PRX_G1800



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	43_PRX_G1800
		C	03024XXX	HUAWEI TECH CO.,LTD.	

44_TRX B5/8



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 44_TRX B5/BC0/B8	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

45_Reserved

A

B

C

D

123456

123456

The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	45_Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

46_Reserved

A

B

C

D

1

2

3

4

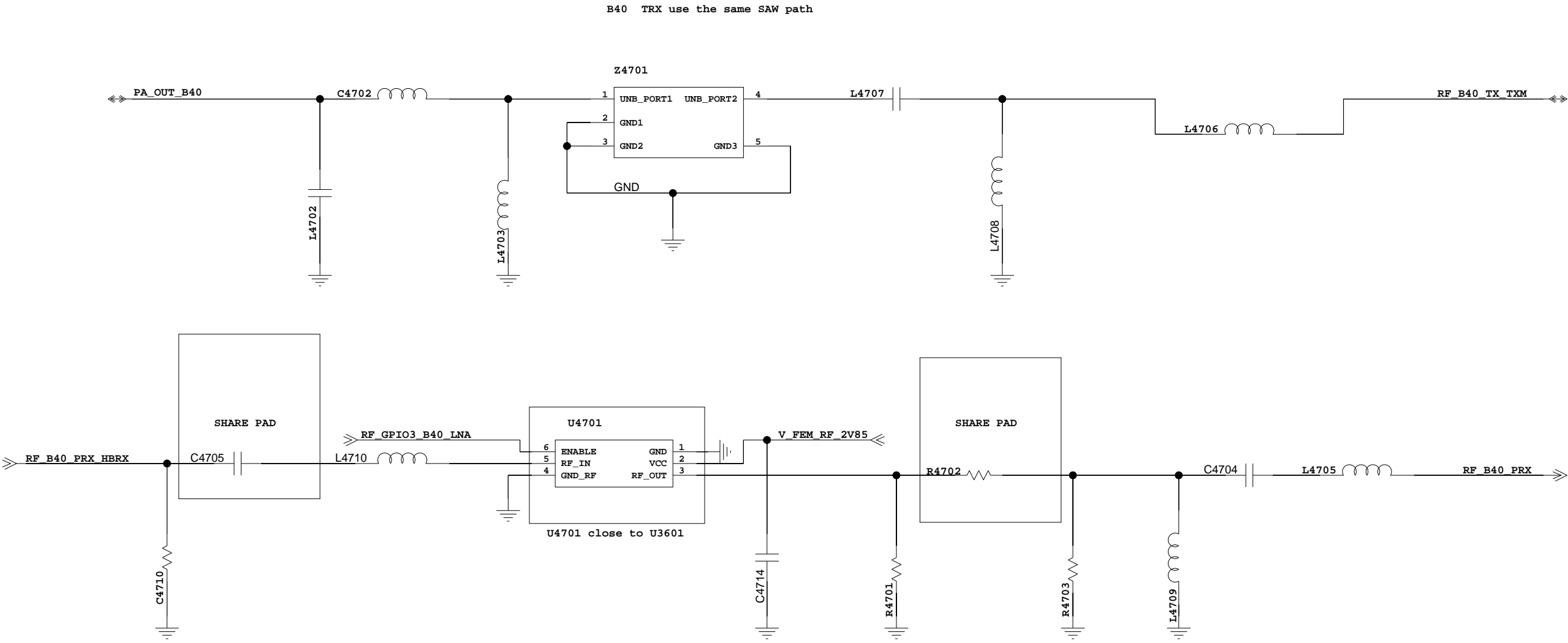
5

6

The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	46_Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

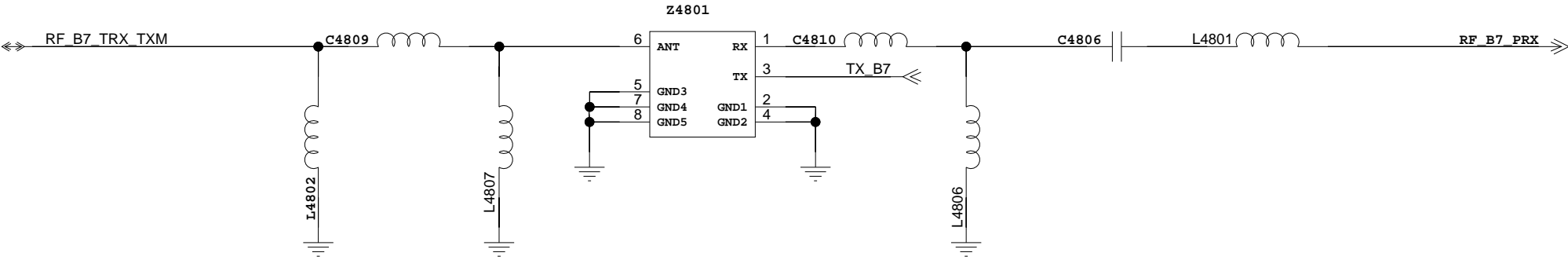
47_TRX B40



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 47_TRX B40	OF 67
		C	03024XXX	HUAWEI TECH CO.,LTD.	

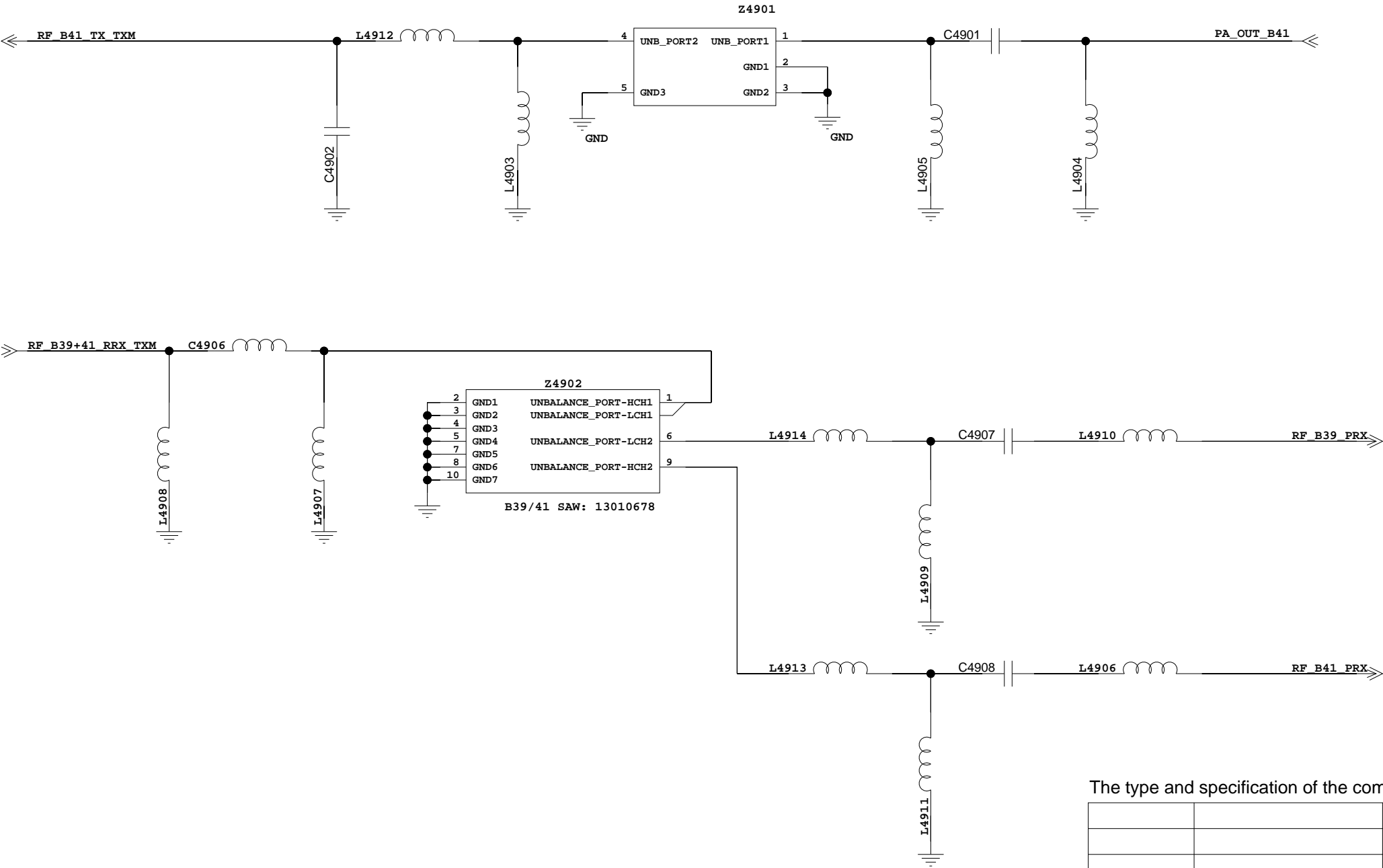
48_TRX B7



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	48_TRX B7 67
		C	03024XXX	HUAWEI TECH CO.,LTD.	

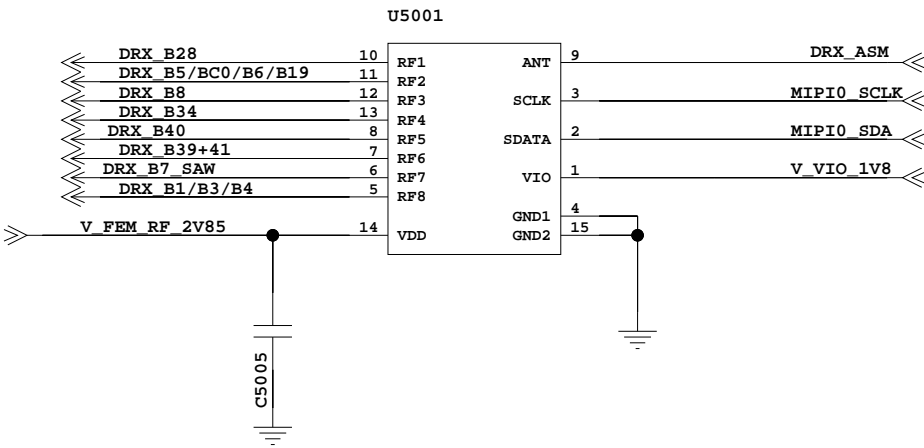
49_TX_B41/PRX_B39+41



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 49_TX_B41/PRX_B39+41	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

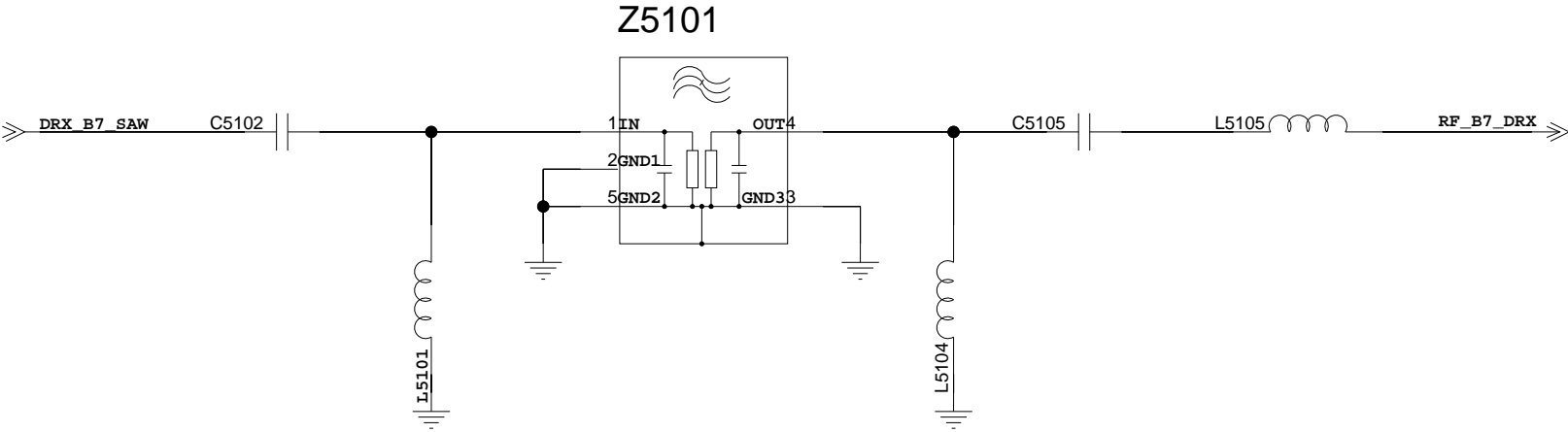
50_Diversity_ASM



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 50_Diversity_ASM	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

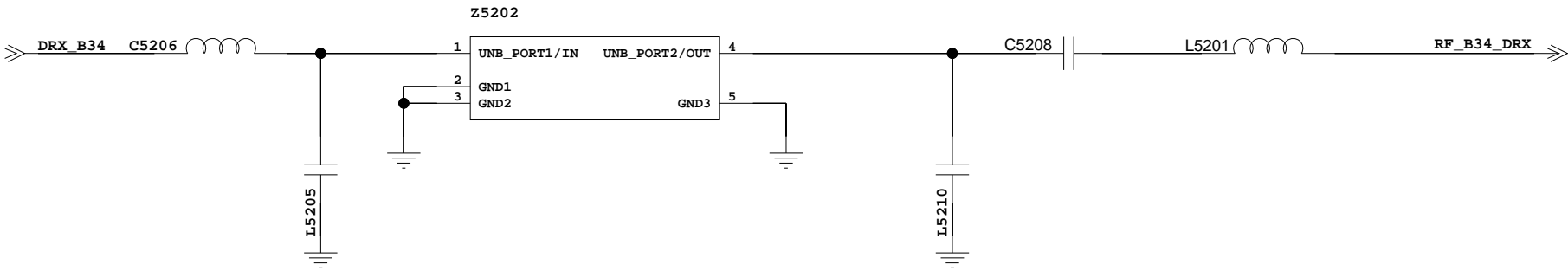
51_DRX SAW B7



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 51_DRX SAW B7	
		c	03024XXX	HUAWEI TECH CO.,LTD.	

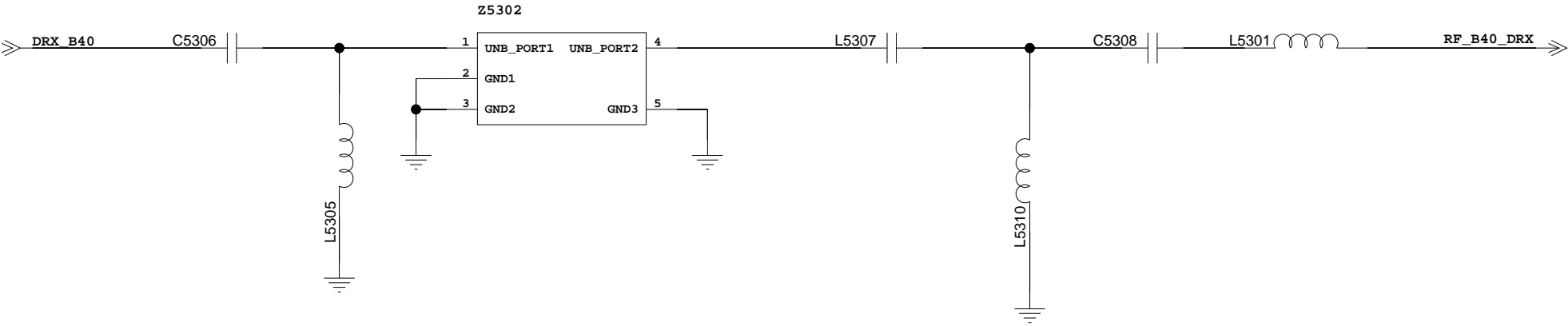
52_DRX_B34



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 52_DRX_B34	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

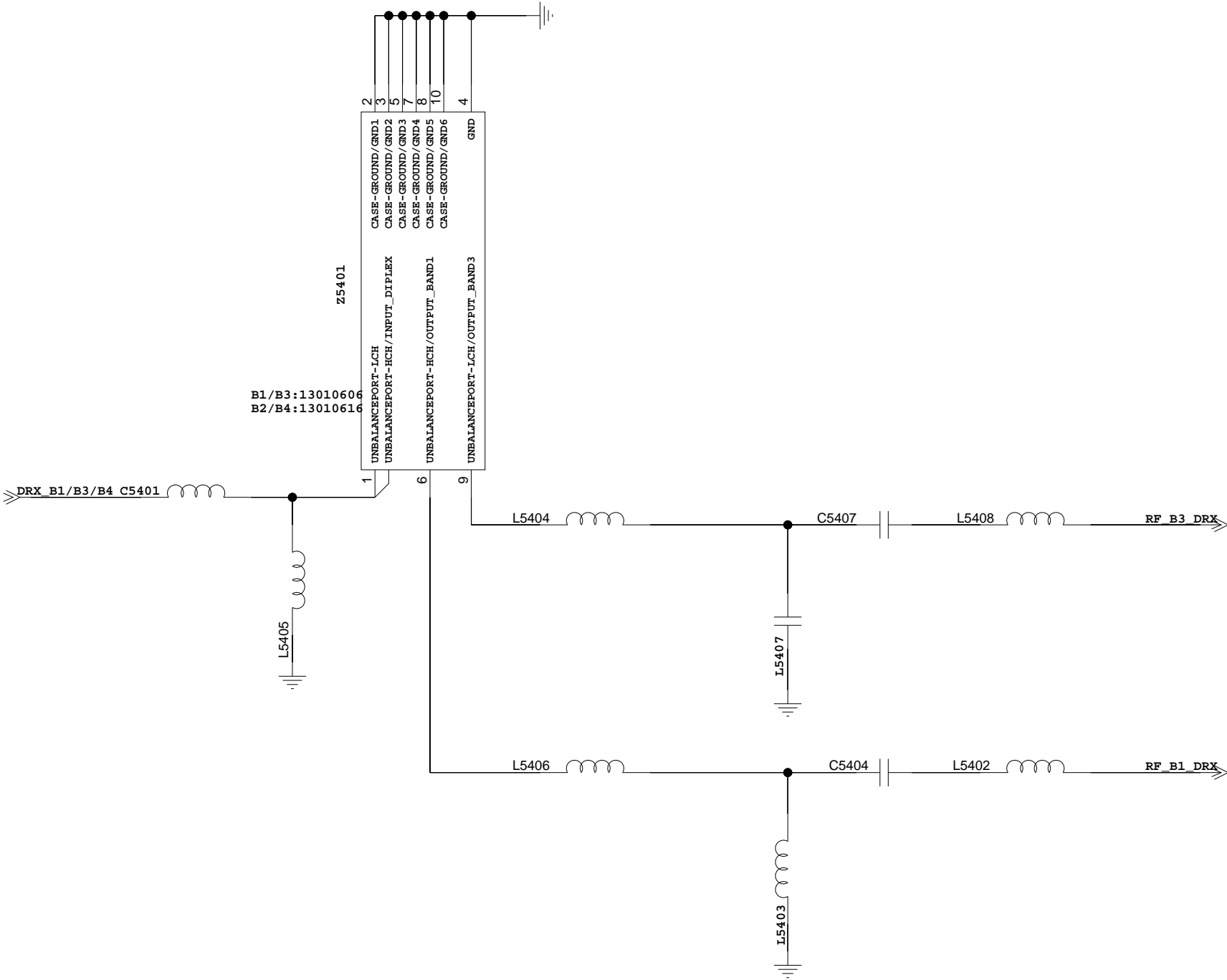
53_DRX_B40



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	53_DRX_B40
		C	03024XXX	HUAWEI TECH CO.,LTD.	

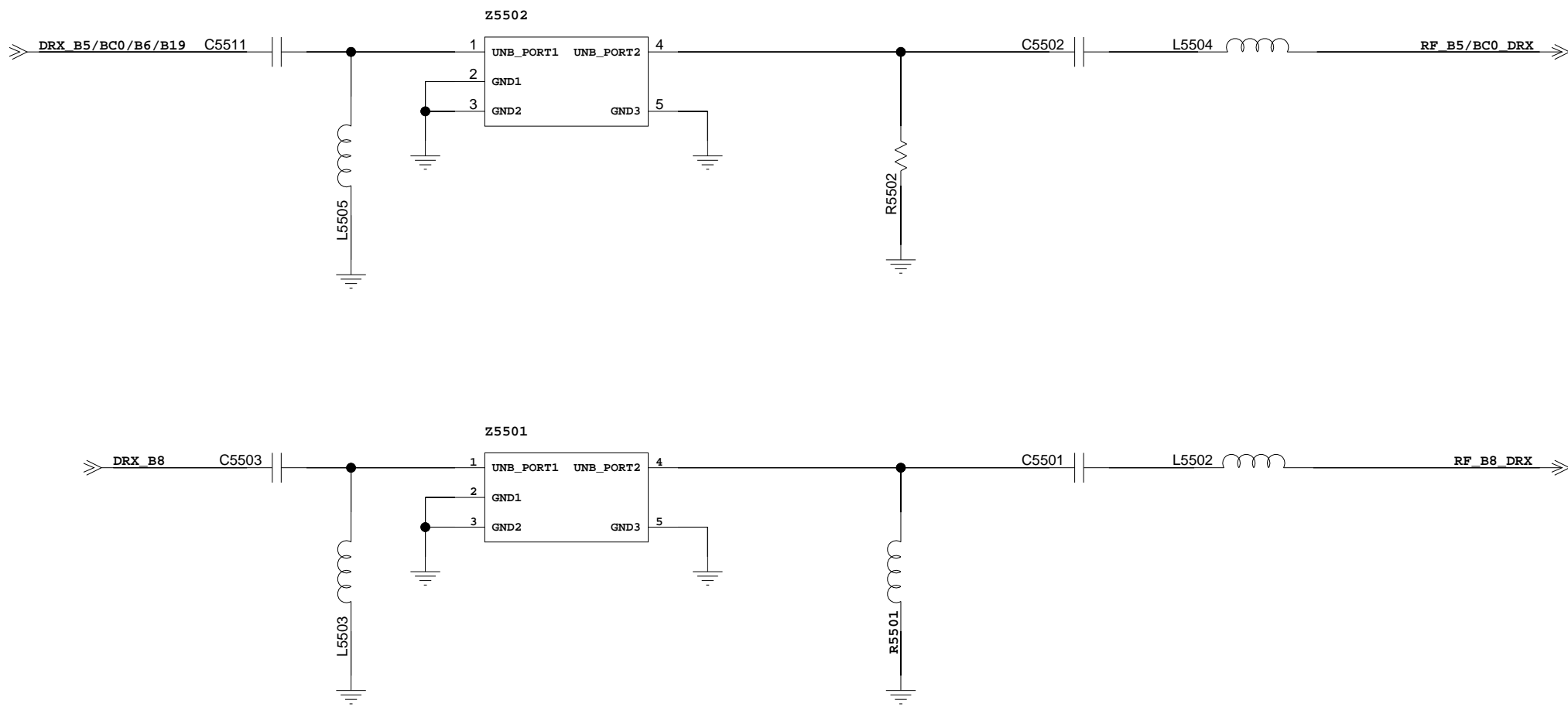
54_DRX B1+3



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 54_DRX B1+3	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

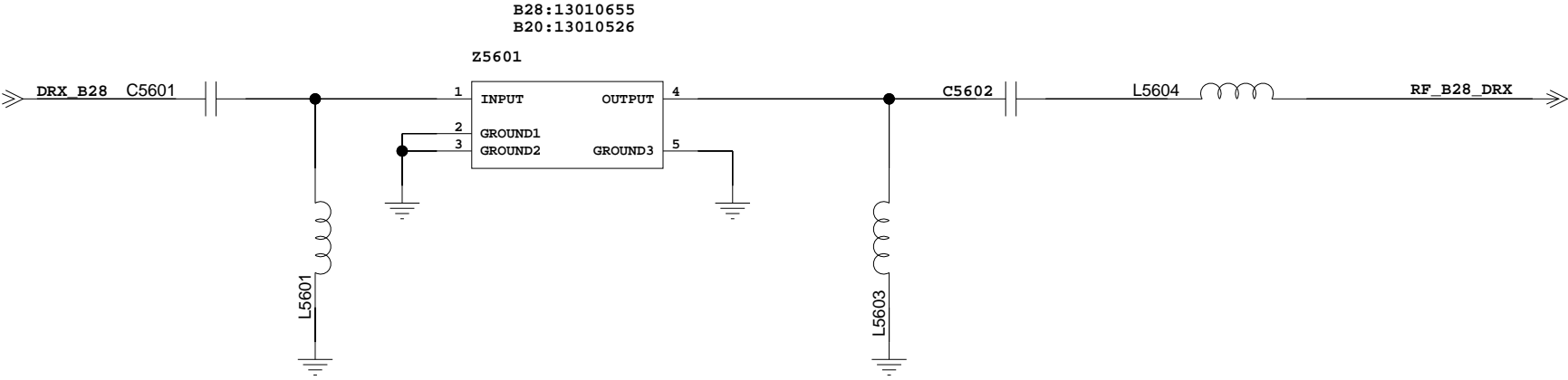
55_DRX B5/BC0



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	55_DRX B5/BC0/B8
		C	03024XXX	HUAWEI TECH CO.,LTD.	

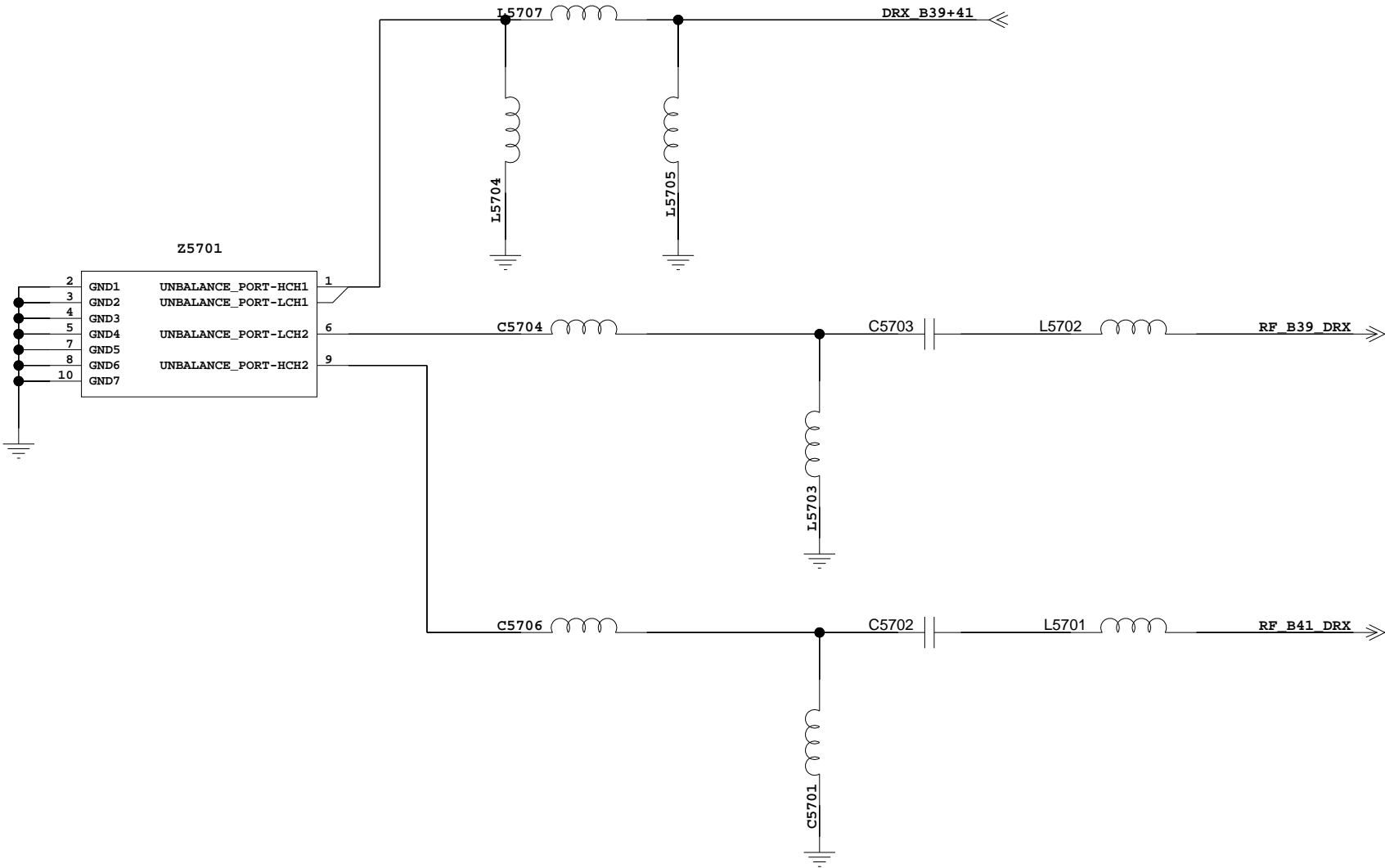
56_DRX_B28_B20



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 56_DRX_B28_B20	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

57_DRX_B39/B41



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET57_DRXB39/B41	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

58. Reserved

The type and specification of the components refer to the BOM

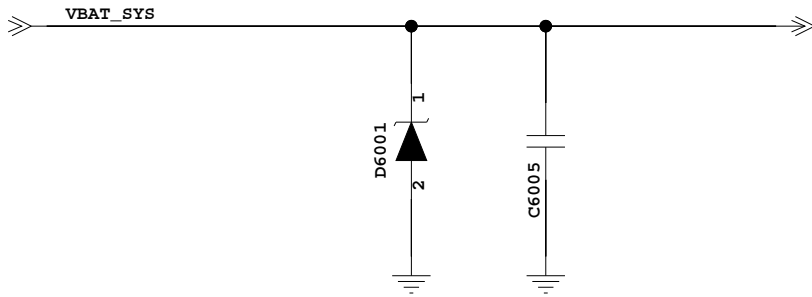
				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	58_Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

59. Reserved

The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	59_Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

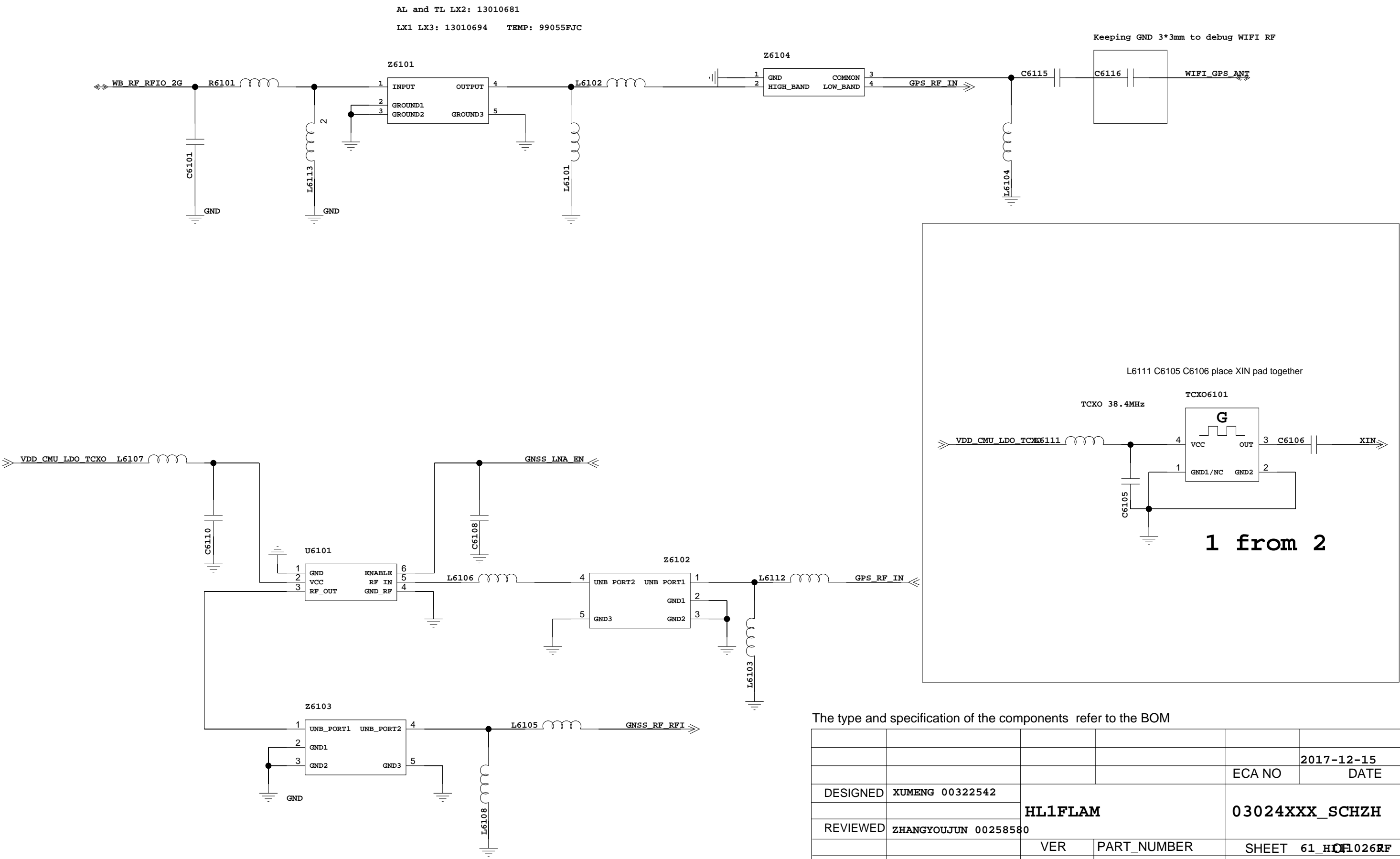
60_1102 POWER



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 60_1102 POWER	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

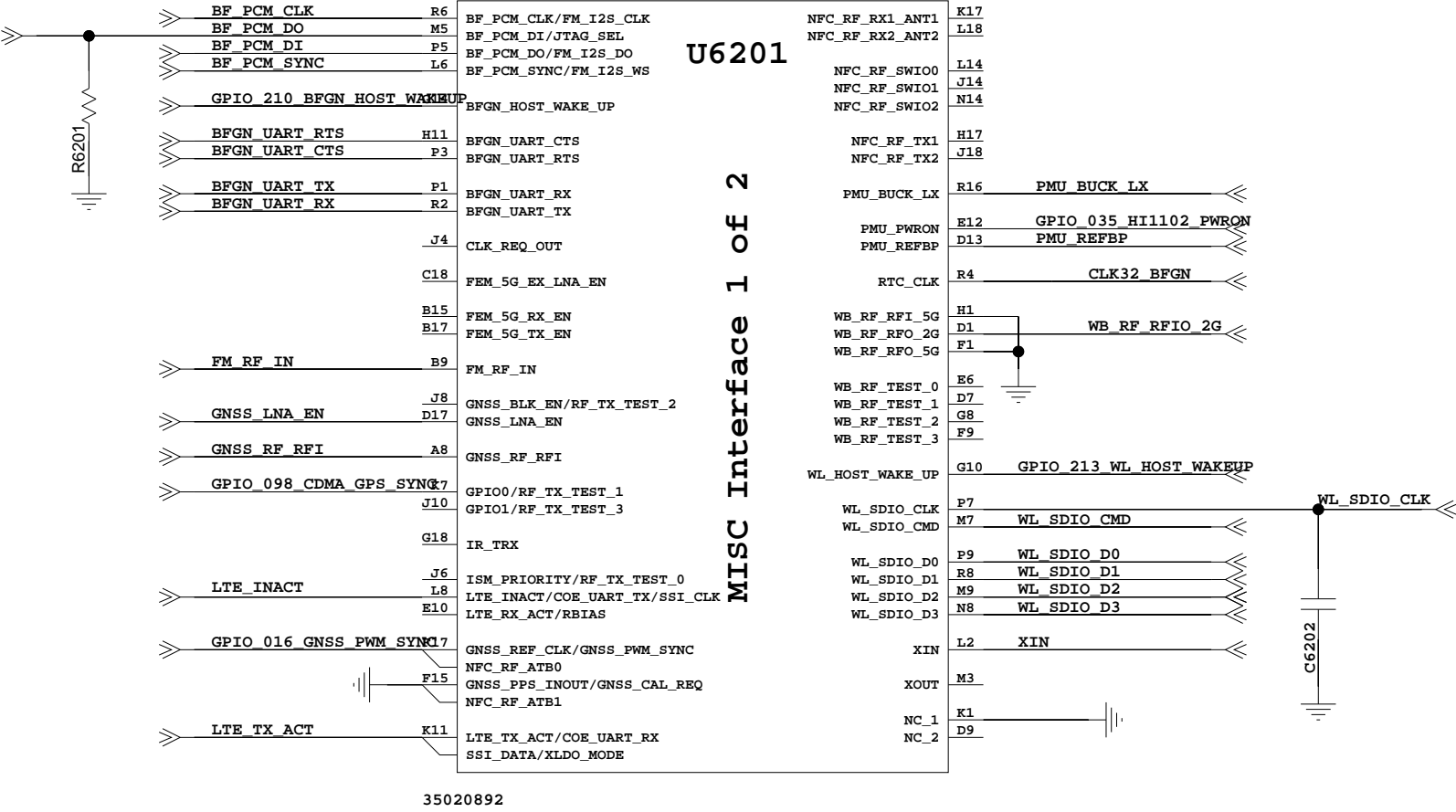
61 HI1102 RF



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15 DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580			SHEET 61_HI1102RF	
		VER	PART_NUMBER		
		C	03024XXX	HUAWEI TECH CO.,LTD.	

62_HI1102 BB_1

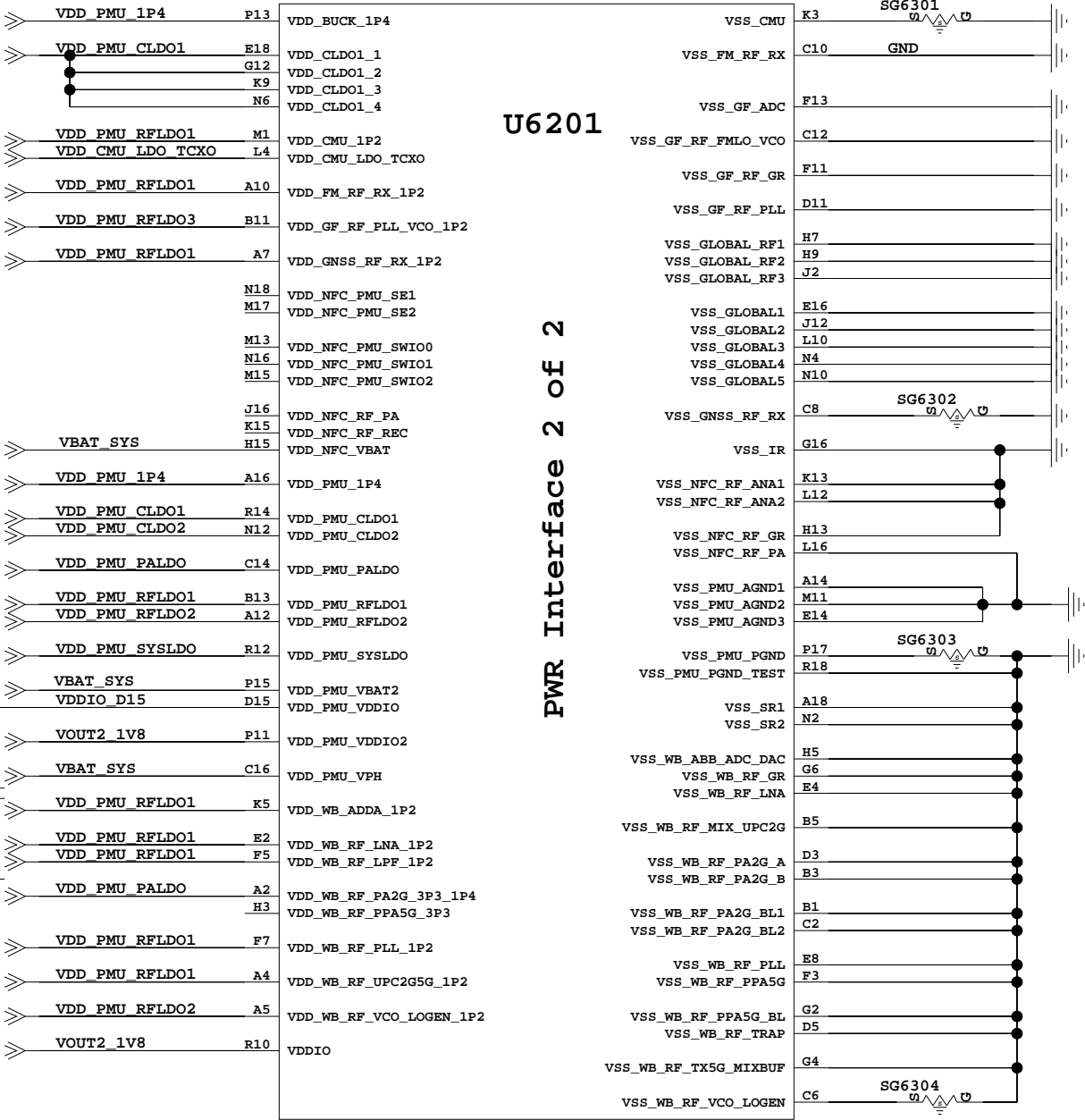
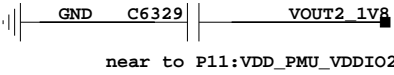
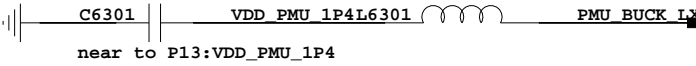
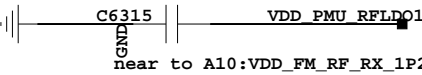
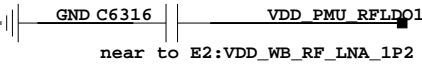
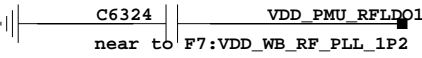
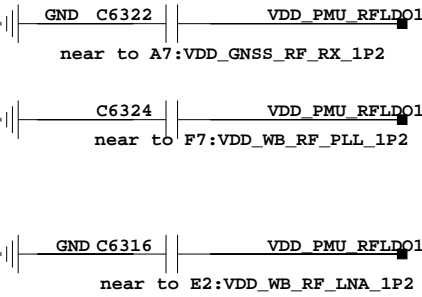
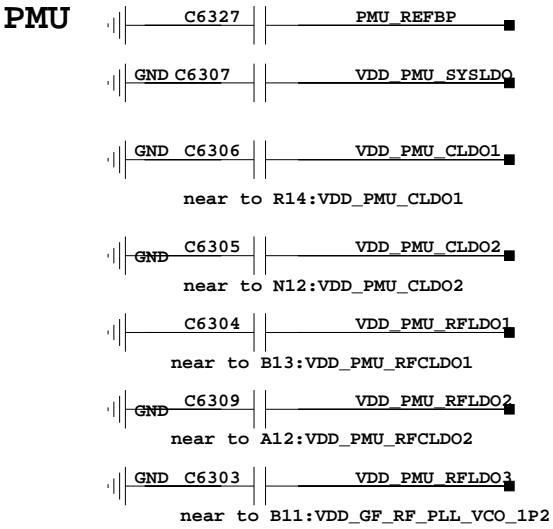
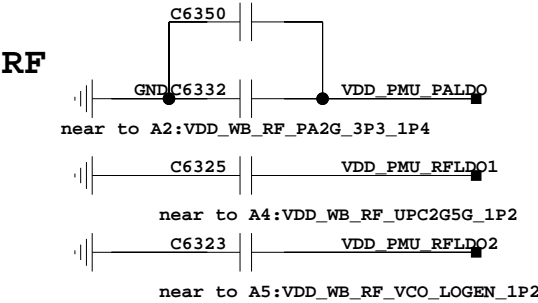
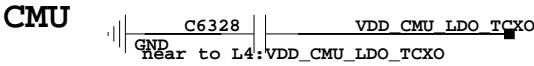
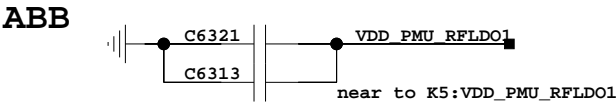
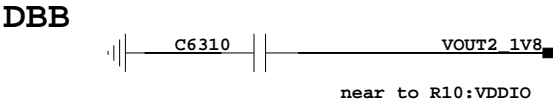


The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 62_HI1102 BB_1	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

63 HI1102 POWER

A



The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 63_HI1102 POWER_1	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

D

64. Reserved

The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	64_Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

65. Reserved

The type and specification of the components refer to the BOM

				ECA NO	2017-12-15
				DATE	
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET	65_Reserved
		C	03024XXX	HUAWEI TECH CO.,LTD.	

123456

A

DRX ANT Switch

B

U6603

47140252

RF1 VDD 3

RF2 VIO 4

RF3 SCLK 5

GND1 GND2 GND3

USID 10

V_FEM_RF_2V85

V_VIO_1V8

MIPI0_SDA

MIPI0_SCLK

L6601

L6602

L6603

L6607

L6608

C6602

C6612

C6614

C6613

R6603

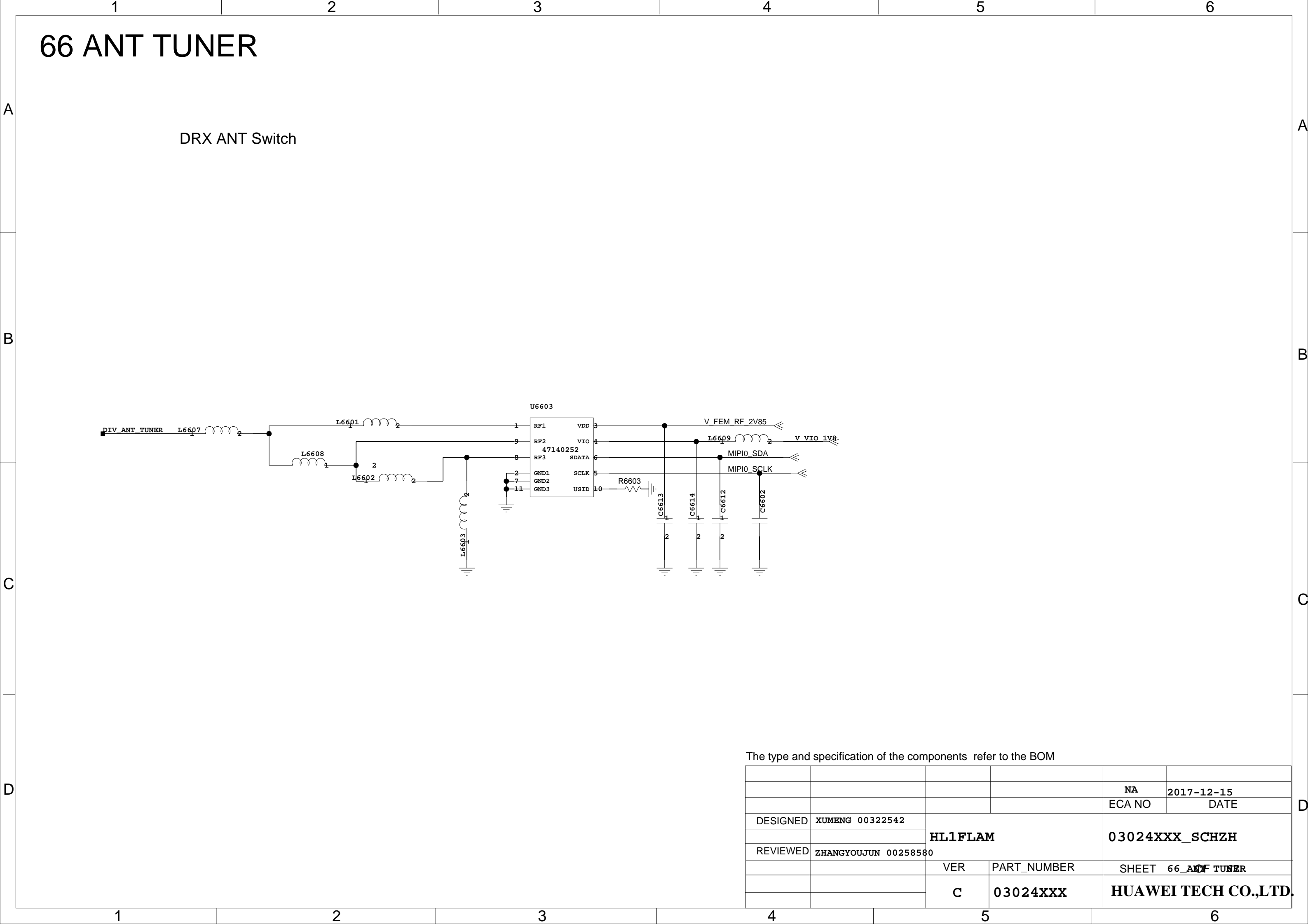
C

D

The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 66 ANT TUNER	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

123456

[illegible]

123456

A

DRX ANT Switch

B

C

D

123456

66 ANT TUNER

123456

DRX ANT Switch

U6603

47140252

RF1 VDD 3

RF2 VIO 4

RF3 SDA 6

GND1 SCLK 5

GND2 USID 10

GND3

V_FEM_RF_2V85

V_VIO_1V8

MIPI0_SDA

MIPI0_SCLK

R6603

C6613

C6614

C6612

C6602

L6607

L6601

L6608

L6602

L6603

DIV ANT TUNER

The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 66 ANT TUNER	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

123456

66 ANT TUNER

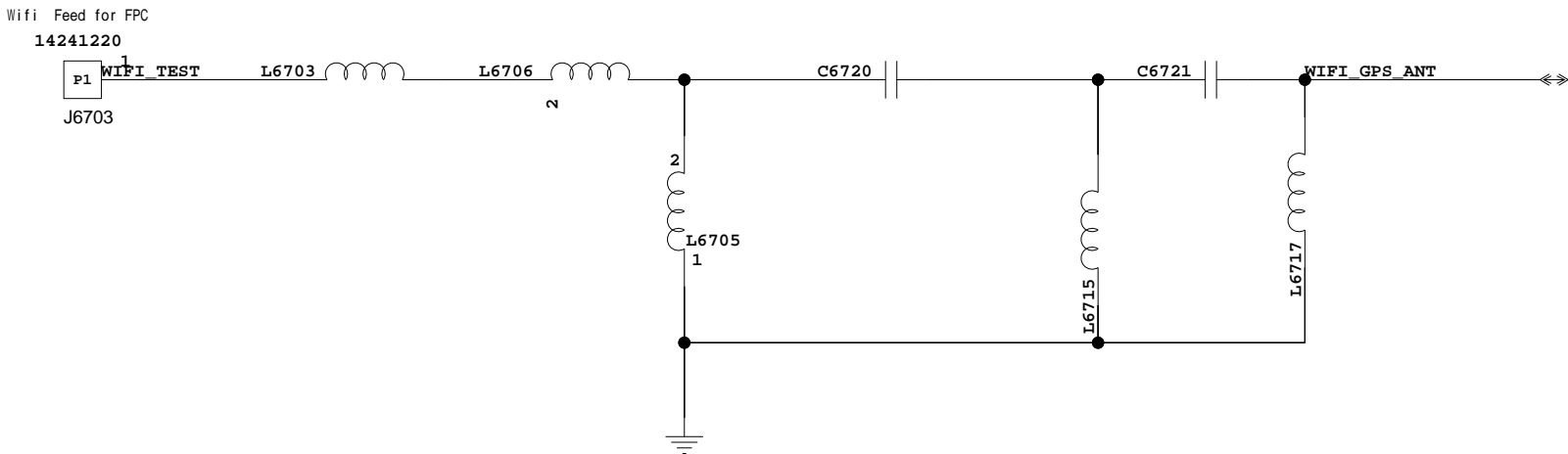
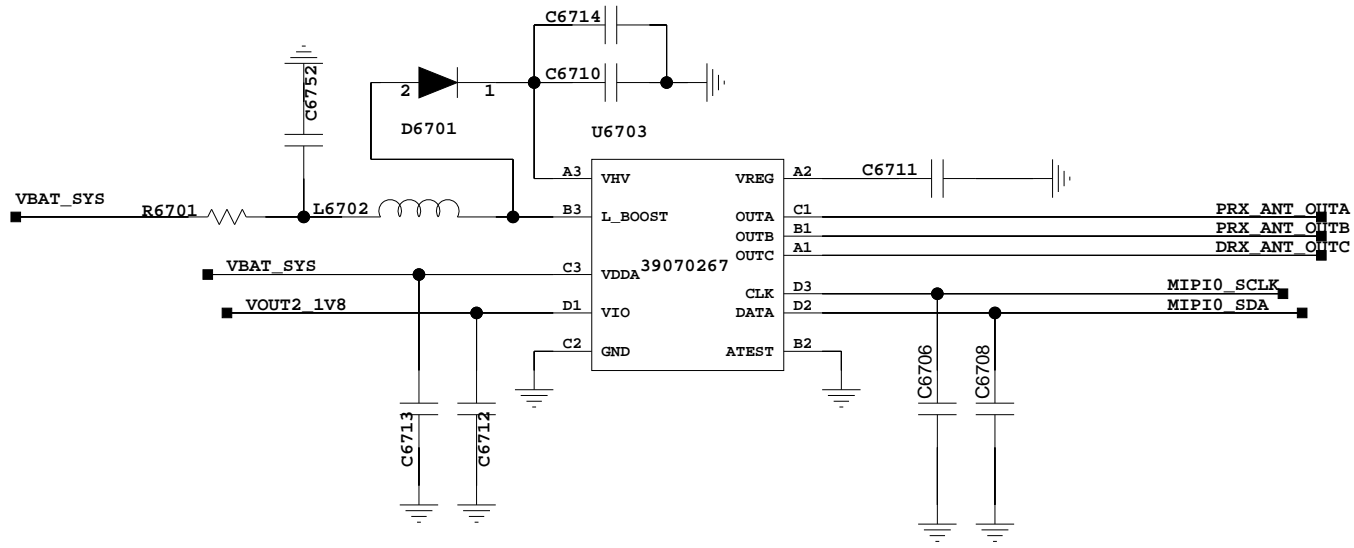
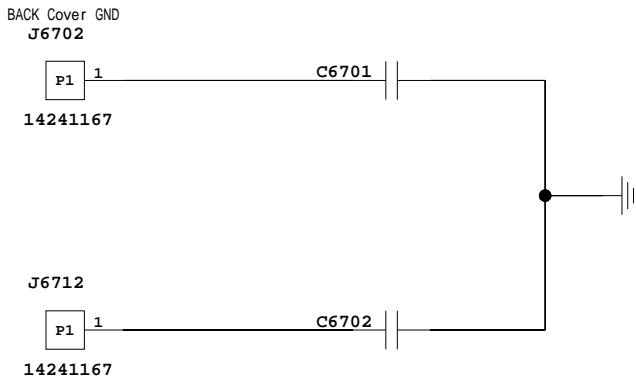
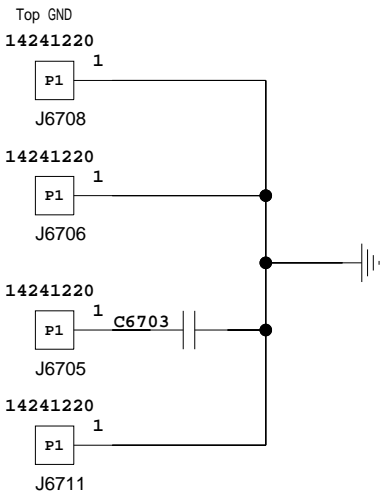
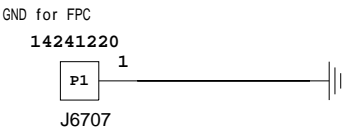
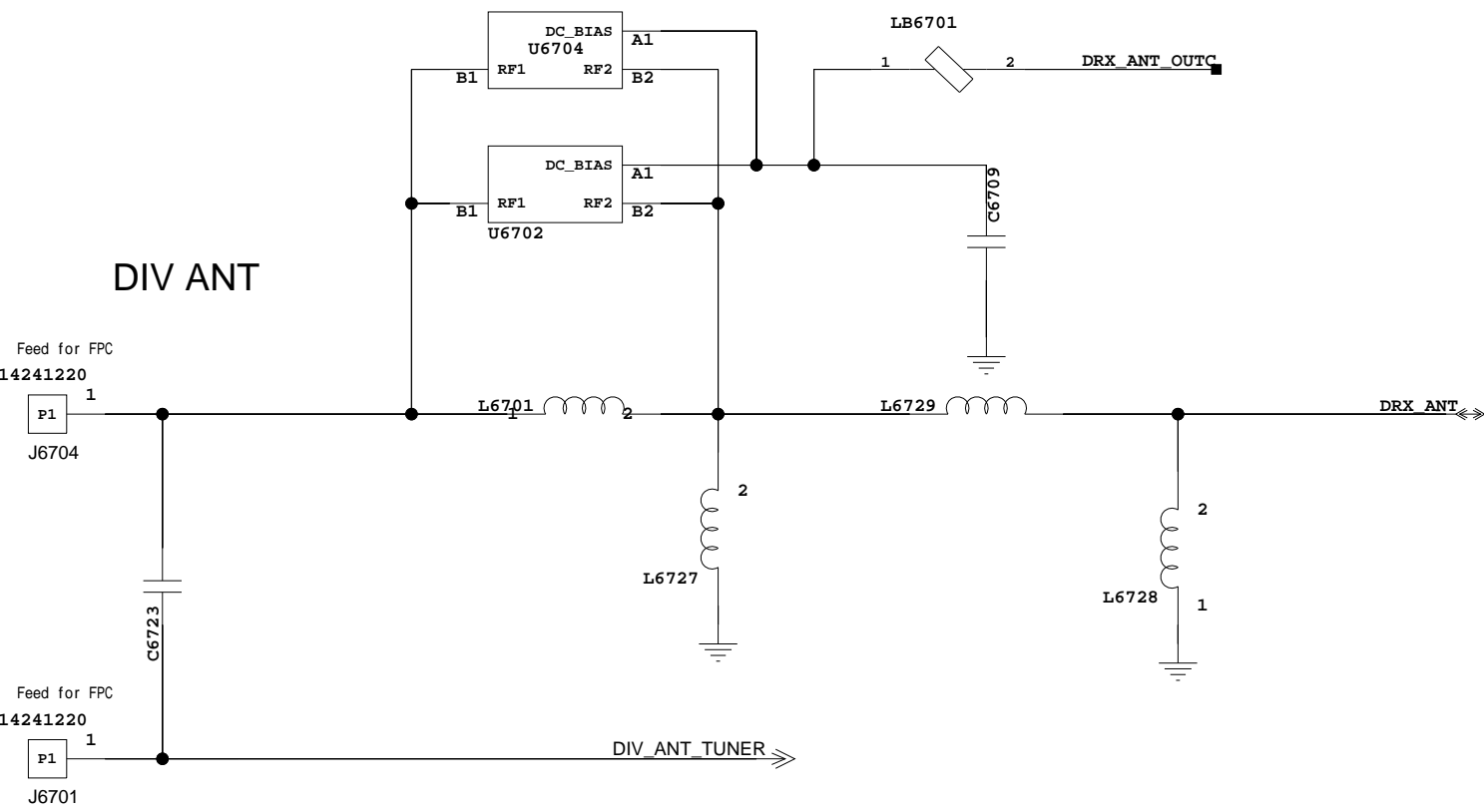
DRX ANT Switch

The schematic diagram illustrates the 66 ANT TUNER circuit, specifically the DRX ANT Switch section. The central component is the 47140252 RF switch (U6603), which is configured with RF1, RF2, and RF3 pins. The circuit includes several inductors (L6601-L6609) and capacitors (C6602-C6614) for impedance matching and filtering. Power is supplied by V_FEM_RF_2V85 and V_VIO_1V8, while control signals are provided via MIPI0_SDA and MIPI0_SCLK. The circuit is grounded at multiple points (GND1, GND2, GND3) and includes a resistor R6603 for signal conditioning.

The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 66 ANT TUNER	
		C	03024XXX	HUAWEI TECH CO.,LTD.	

67.ANTENNA MATCH



The type and specification of the components refer to the BOM

				NA	2017-12-15
				ECA NO	DATE
DESIGNED	XUMENG 00322542	HL1FLAM		03024XXX_SCHZH	
REVIEWED	ZHANGYOUJUN 00258580				
		VER	PART_NUMBER	SHEET 67_ANTENNA7MATCH_1	
		C	03024XXX	HUAWEI TECH CO.,LTD.	