



SIM8260 Series Hardware Design

5G Module

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Version History

Date	Version	Description of change	Author
2021-08-23	1.00	Draft	Yaling Wang
2021-12-29	1.01	<ol style="list-style-type: none">1. add EBI interface for LCD2. Change U0403 T_RX_1 and T_RX_23. PIN AM7 chang pin name used for GPIO96_CC_INT4. PIN AH3 /W1 change pin name to RFU5. PIN AK7 change pin name to GPIO92,6. PIN AF3 change pin name to sleep out7. W82 module change PIN 67 to RFU	Yaling Wang

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1 Introduction

This document provides the reference design for SIMCom SIM8260 Series module.

1.1 Schematics Reference

The schematics illustrated in the following pages are provided for your reference only

1.2 BOM Reference

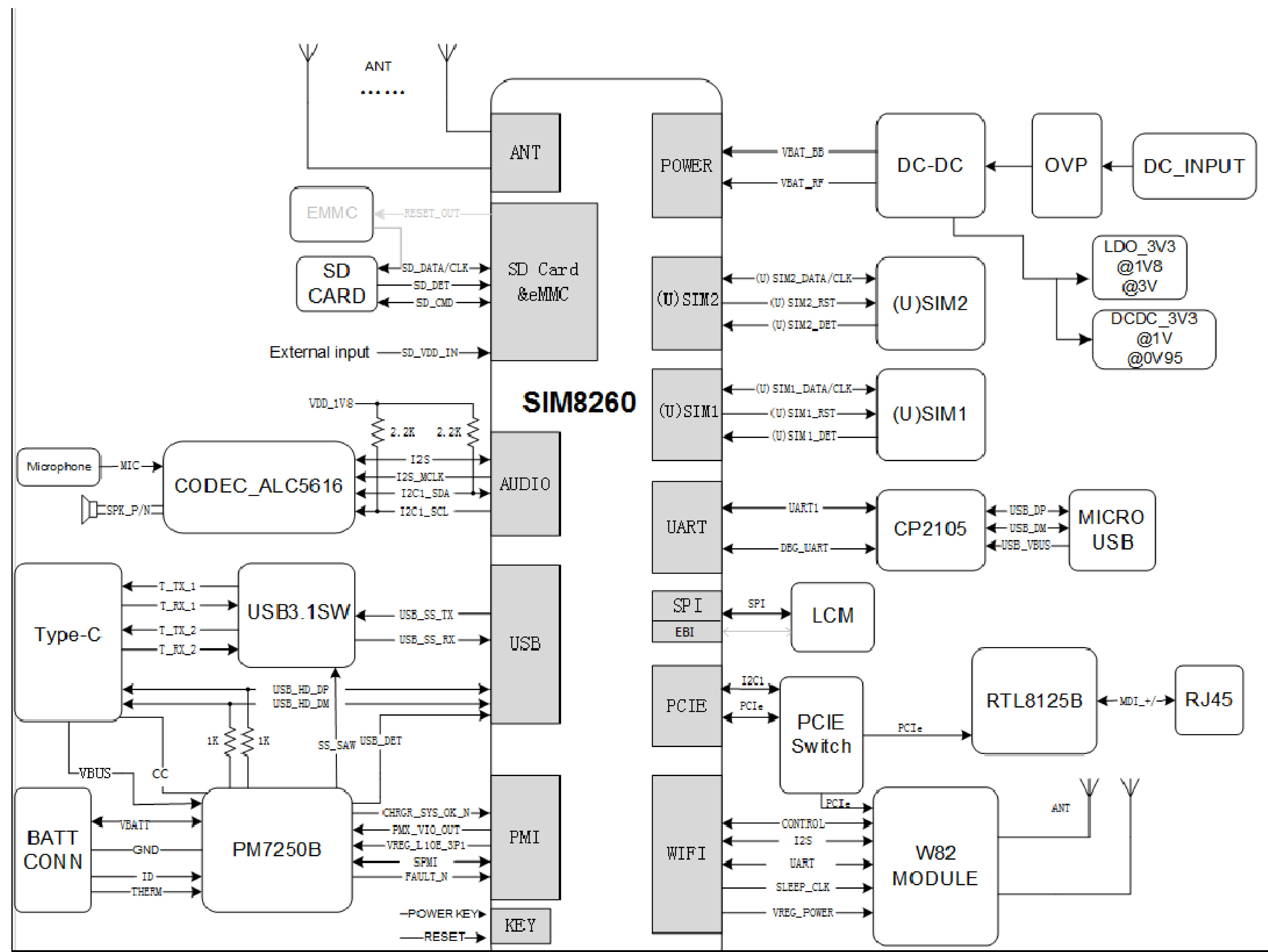
Customers are advised to implement all BOM-reduced designated components in the early design stages, and should only remove them after performance is verified without the component installed.

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REVISION RECORD			
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- 15_RTL8125B
- 16_ANT



COMPANY: SIMCOM			
TITLE: SIM8260 Series_V1.00_KDL			
DRAWN: yaling.wang	DATE: 2021-12-29	CODE:	SIZE: A1
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RELEASED: XX	DATE: XX	SHEET: 1 of 17	

REVISION RECORD			
ITR	ECO NO.	APPROVED	DATE

Change list

Date	Version	Description of change	Author
2021-08-14	V1.00		yaling.wang
2021-12-29	V1.01	1. add EBI interface to LCD 2. Exchange U0403 T_RX_1 and T_RX_2 3. PIN AM7 chang pin name used for GPIO96_CC_INT 4. PIN AH3 PIN W1 chang to RFU,PIN AK7 to GPIO92, PIN AF3 to SLEEP OUT 5 .W82 module change PIN 67 to RFU	yaling.wang

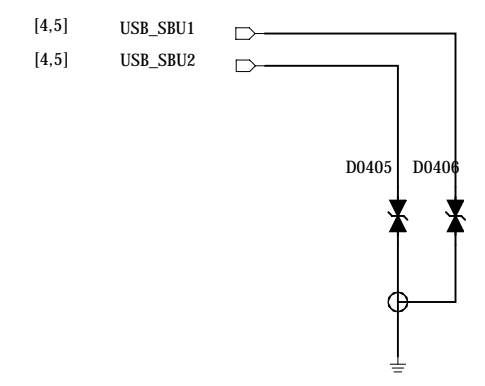
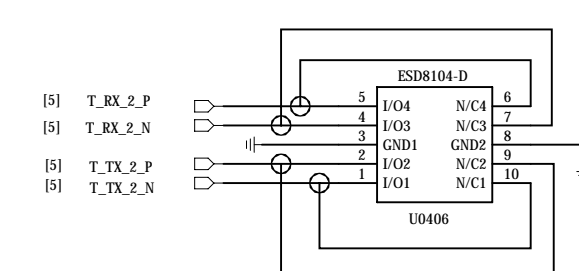
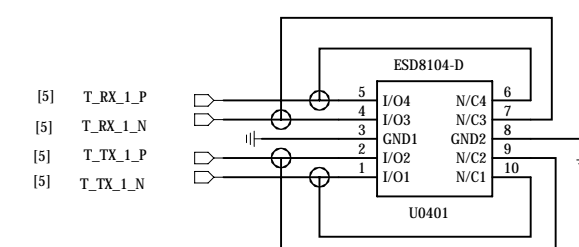
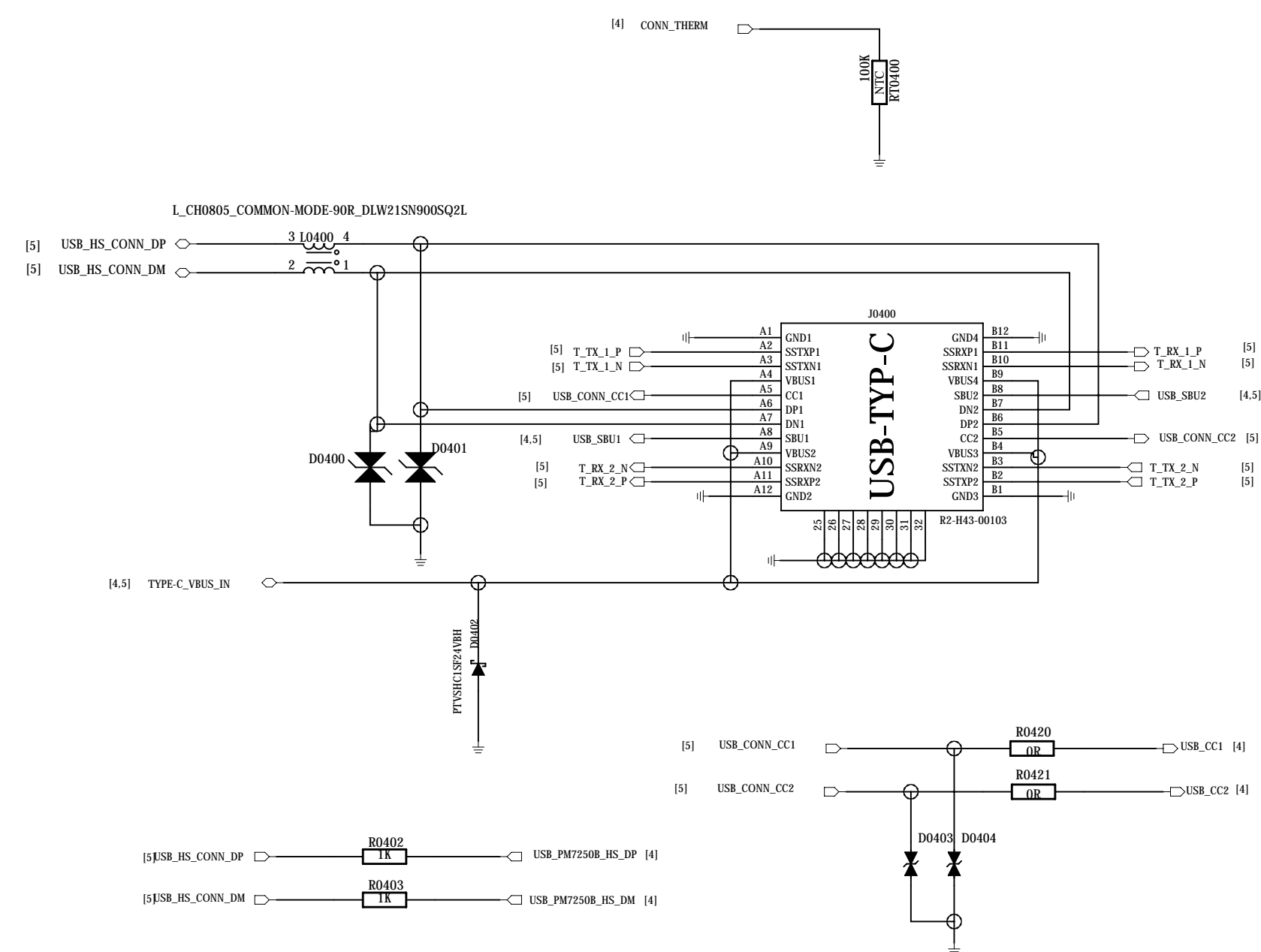
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ITER	ECO NO.	APPROVED:	DATE

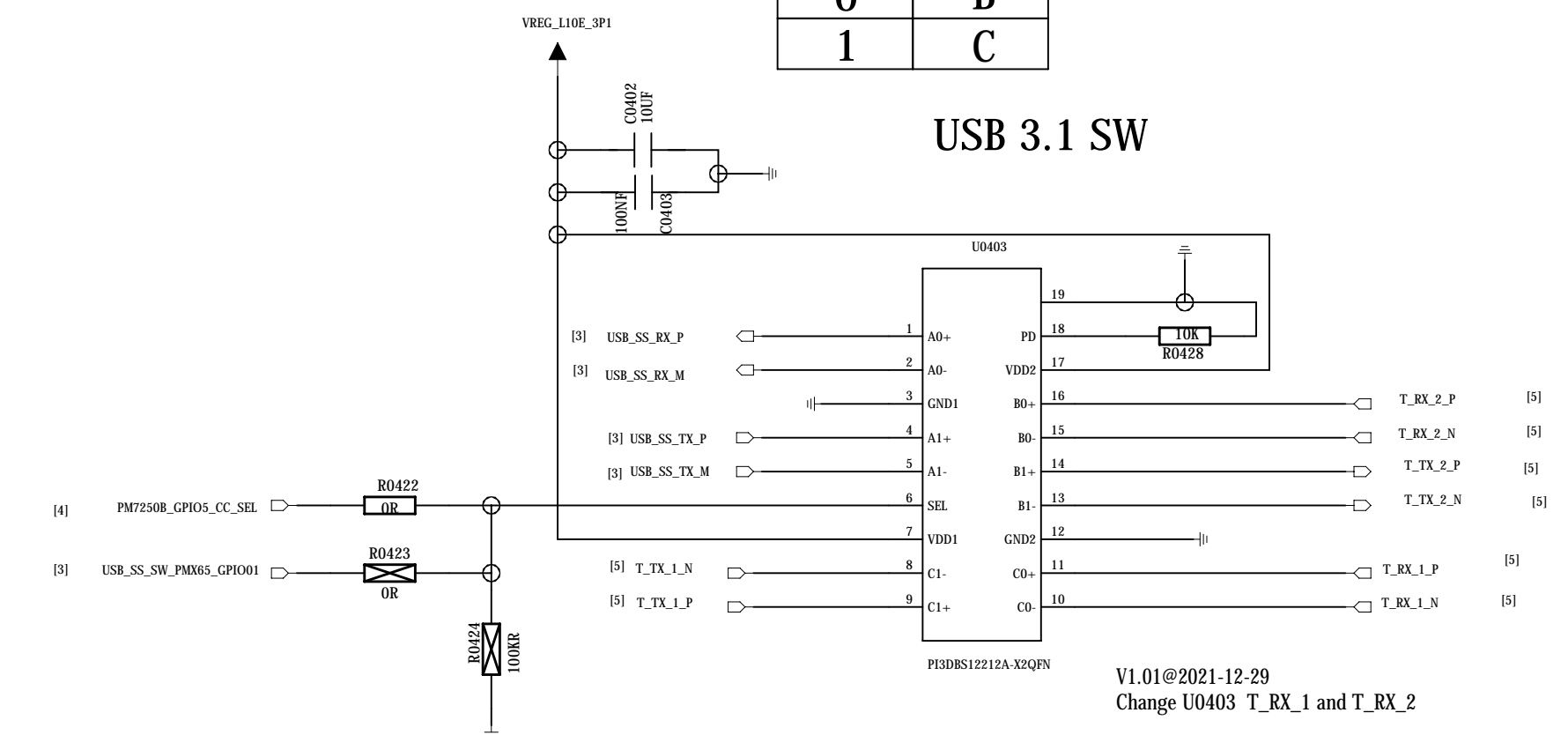
USB TYPE-C

PLACE NEAR USB CONNECTOR



SEL	OUT
0	B
1	C

USB 3.1 SW

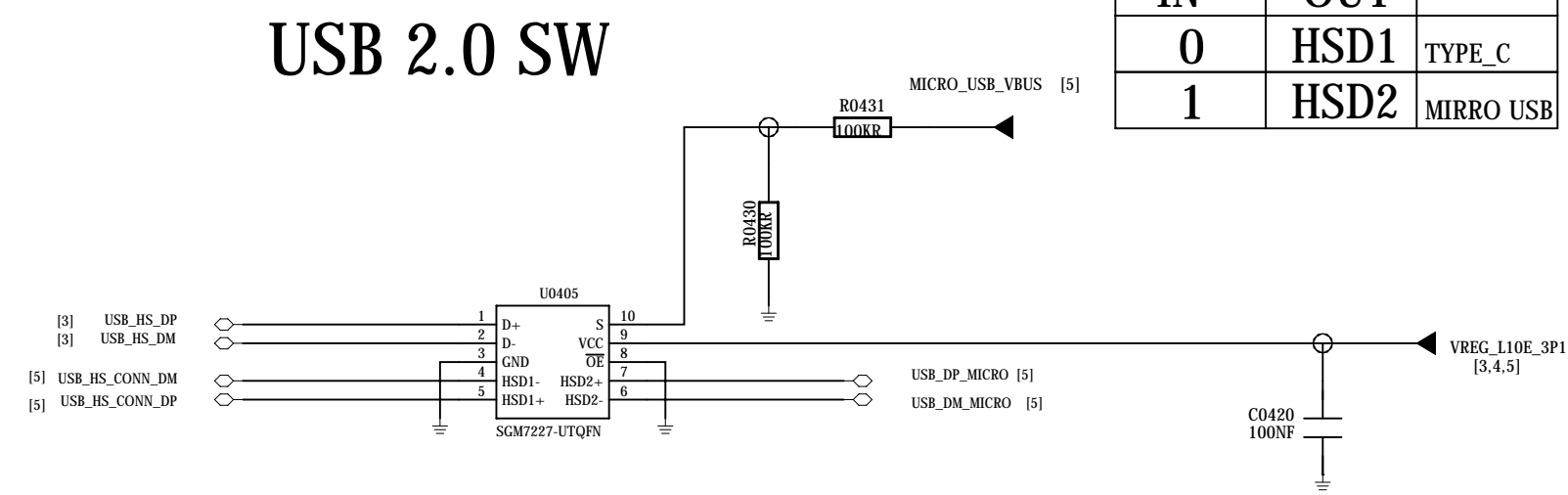


V1.01@2021-12-29
Change U0403 T_RX_1 and T_RX_2

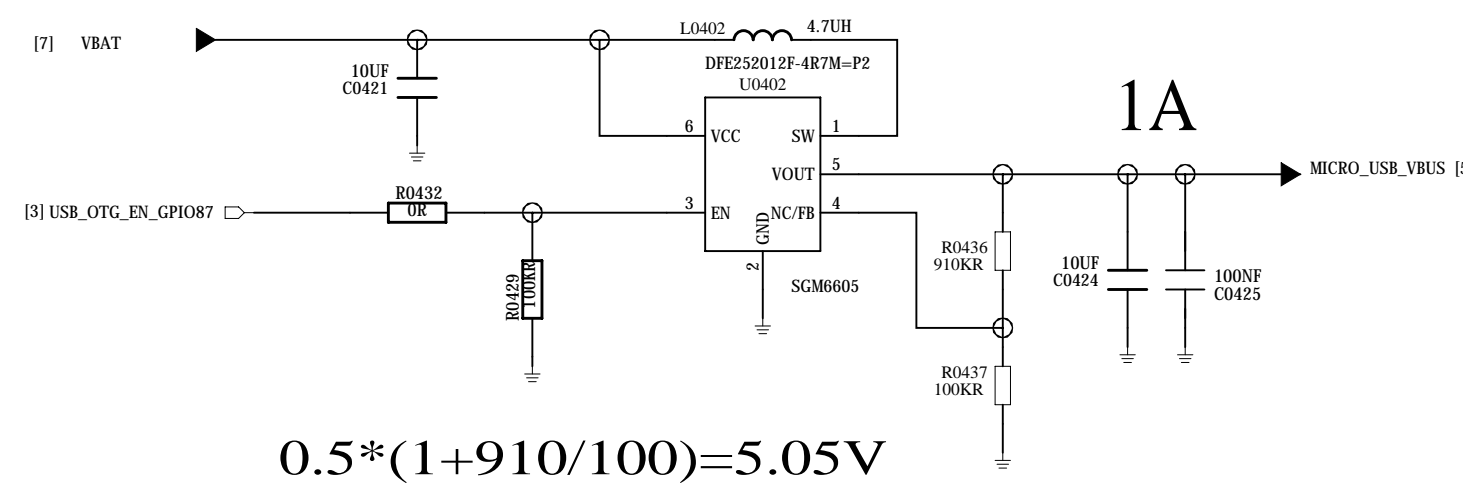
U0405 switch selection S pin high and low level truth table

USB 2.0 SW

IN	OUT	
0	HSD1	TYPE_C
1	HSD2	MIRRO USB

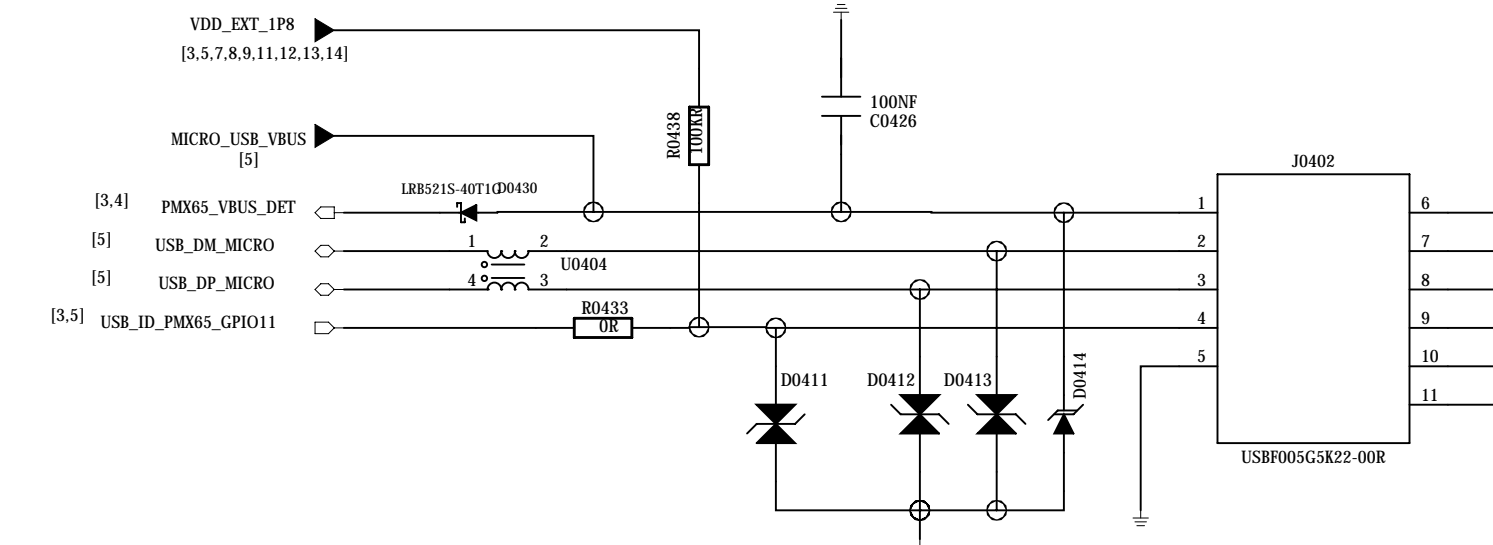


OTG_VBUS_POWER

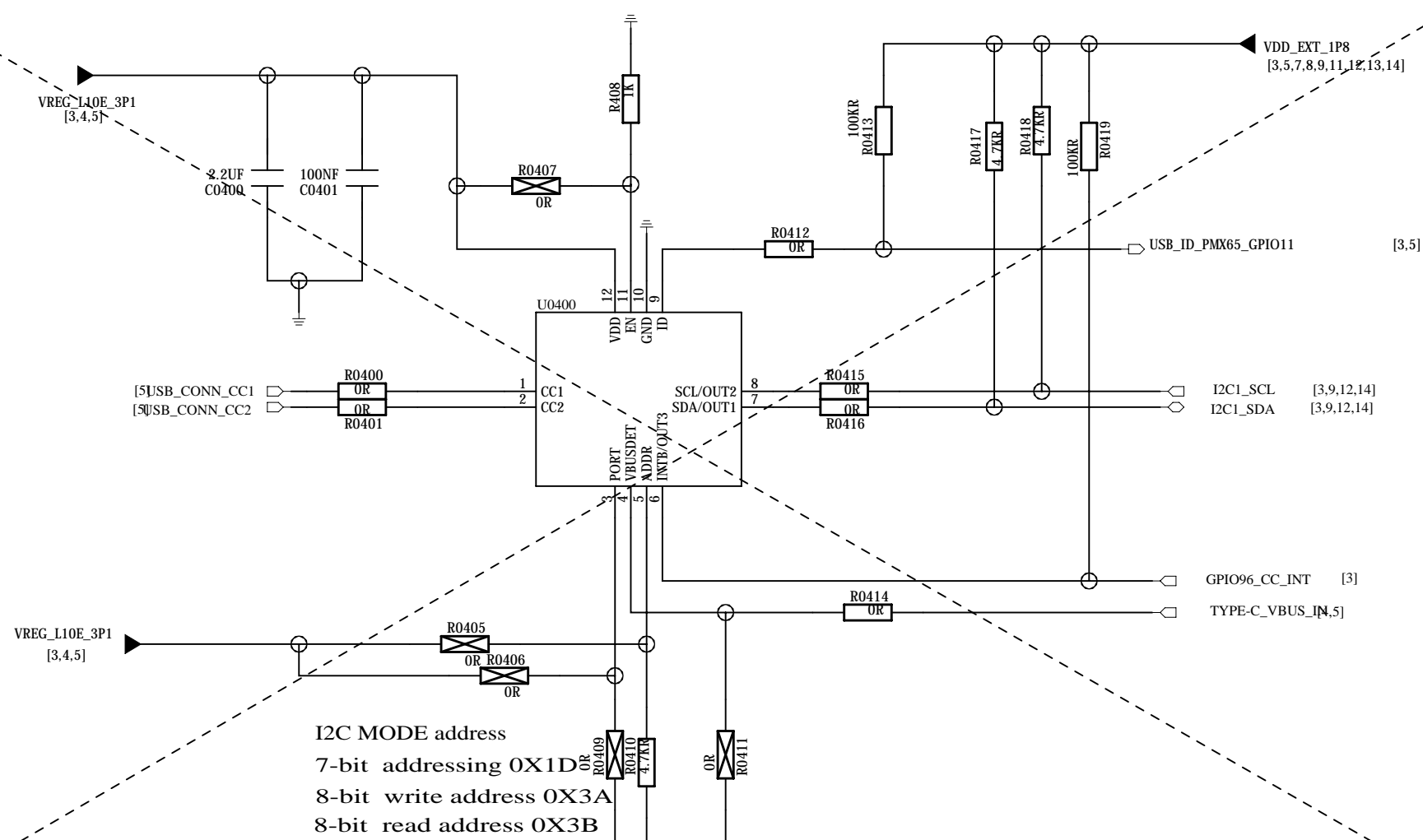


$$0.5 * (1 + 910/100) = 5.05V$$

MICRO USB CONN



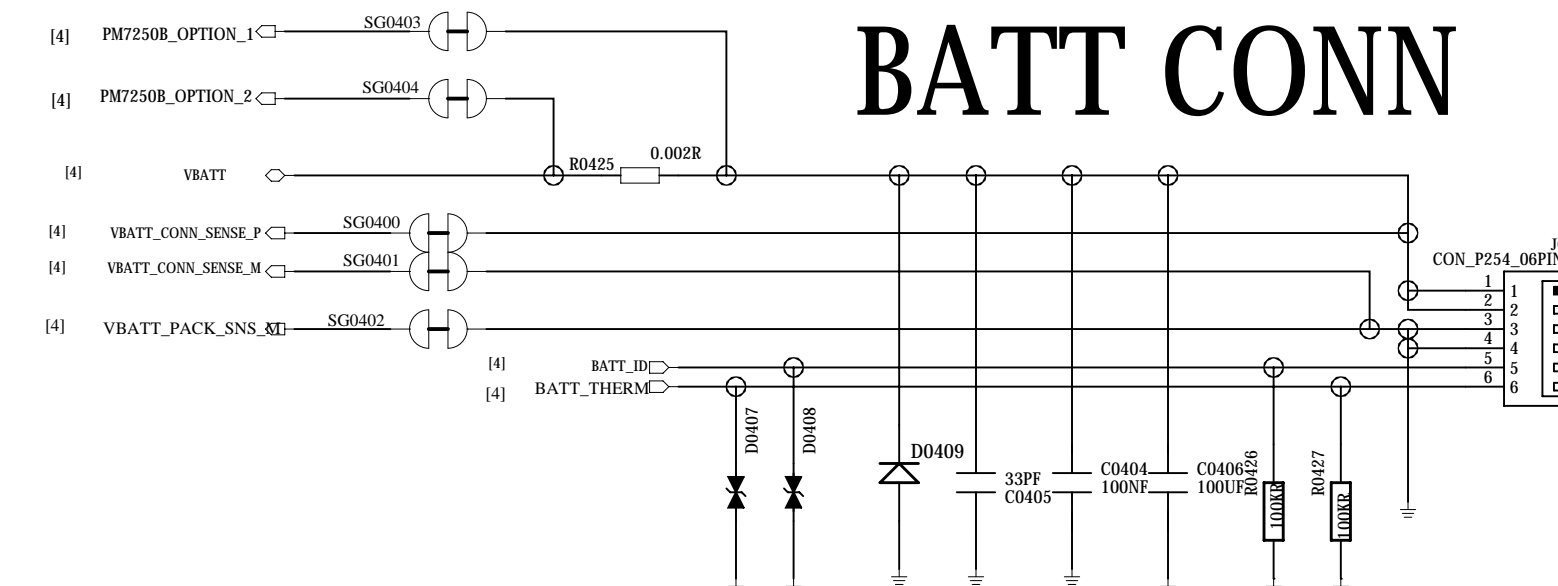
TYPEC CC DETECT



When PM7250B unused Mounting this components for cc detect

I2C MODE address
7-bit addressing 0X1D
8-bit write address 0X3A
8-bit read address 0X3B

BATT CONN



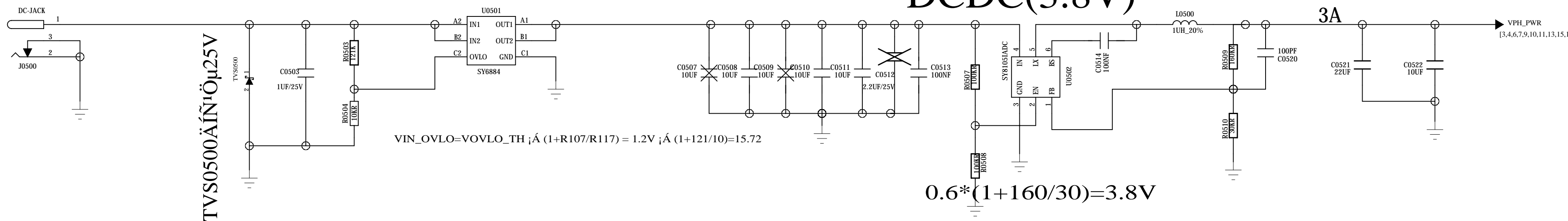
BATT_ID If not need charging R0426 please use 10K
BATT_ID If need charging R0426 please use 100K

BATT_THERM R0427 must use 100K
The NTC in the battery must be 100K, Beta is 4250

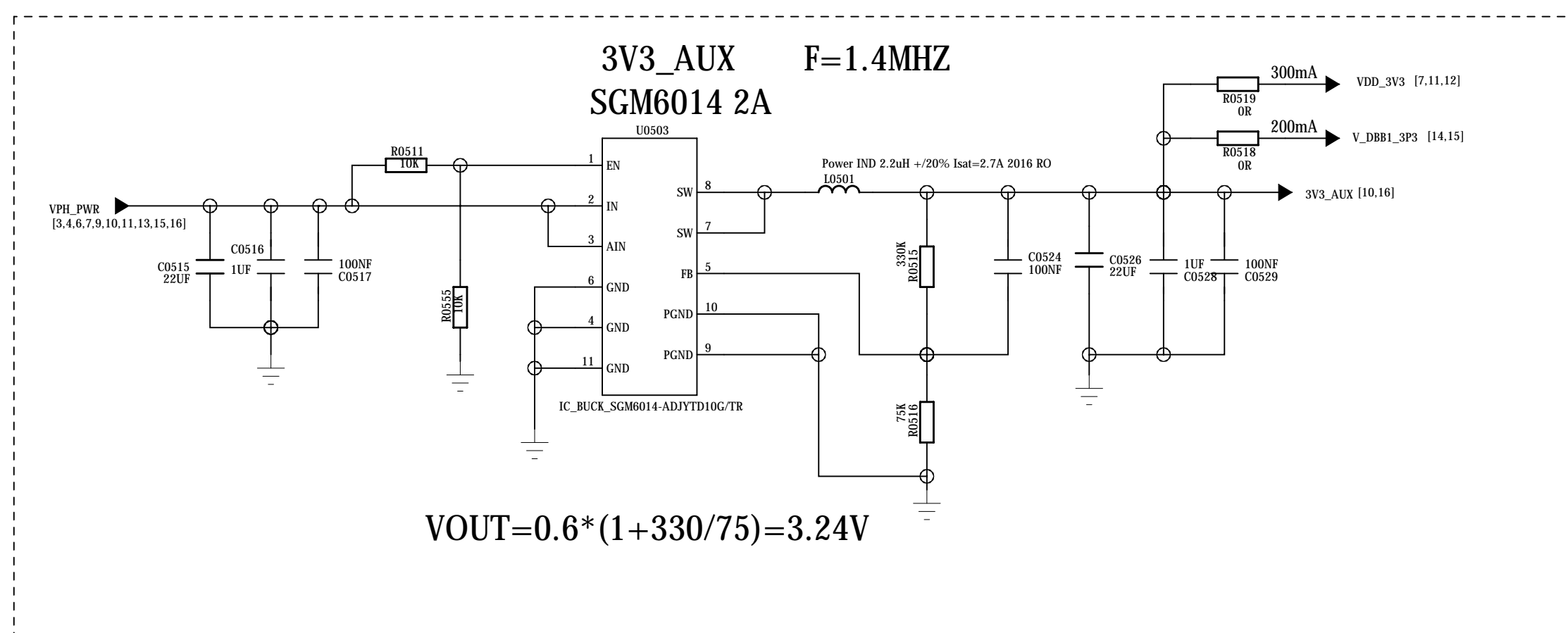
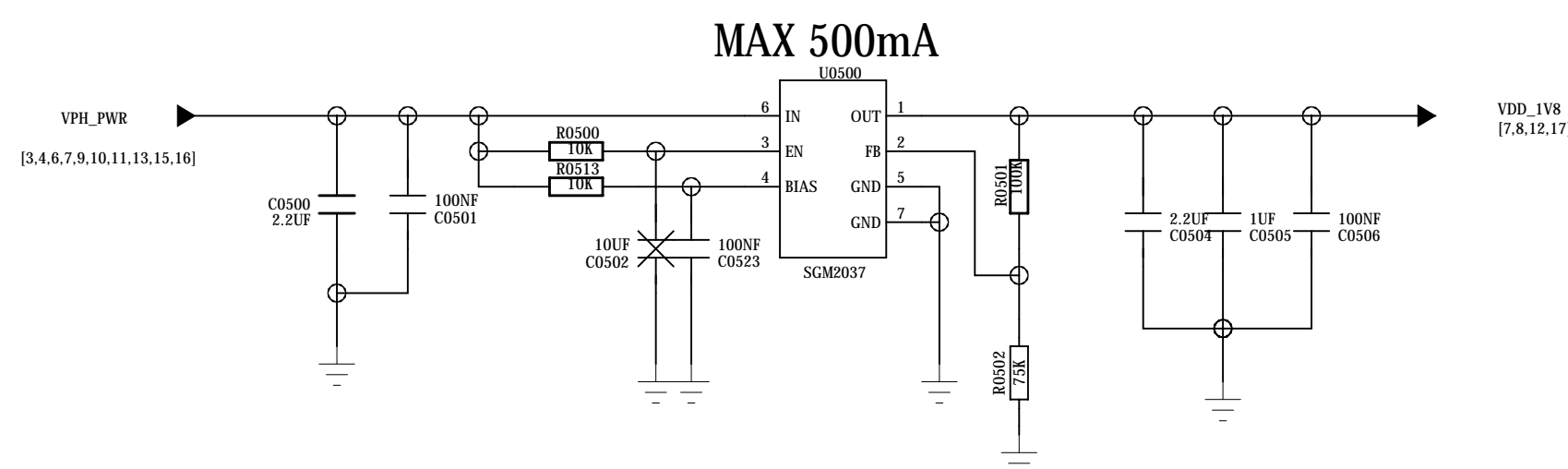
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RELEASED: XX	DATED: XX		
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INPUT 5~12V



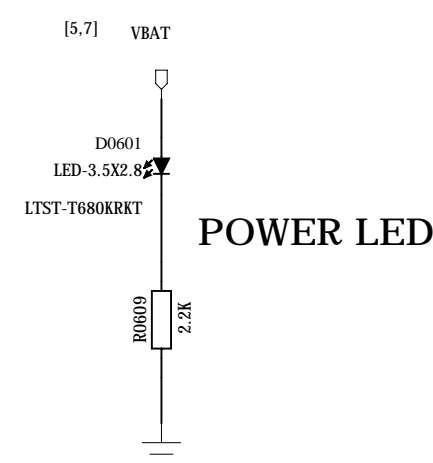
1V8 LDO



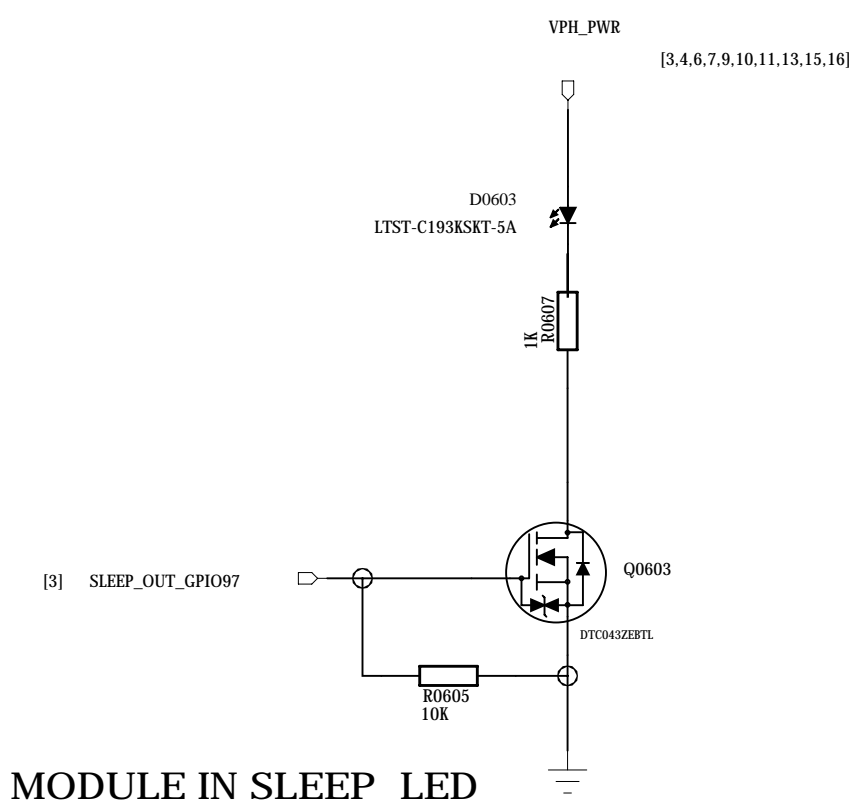
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ITER	ECO NO.	APPROVED	DATE

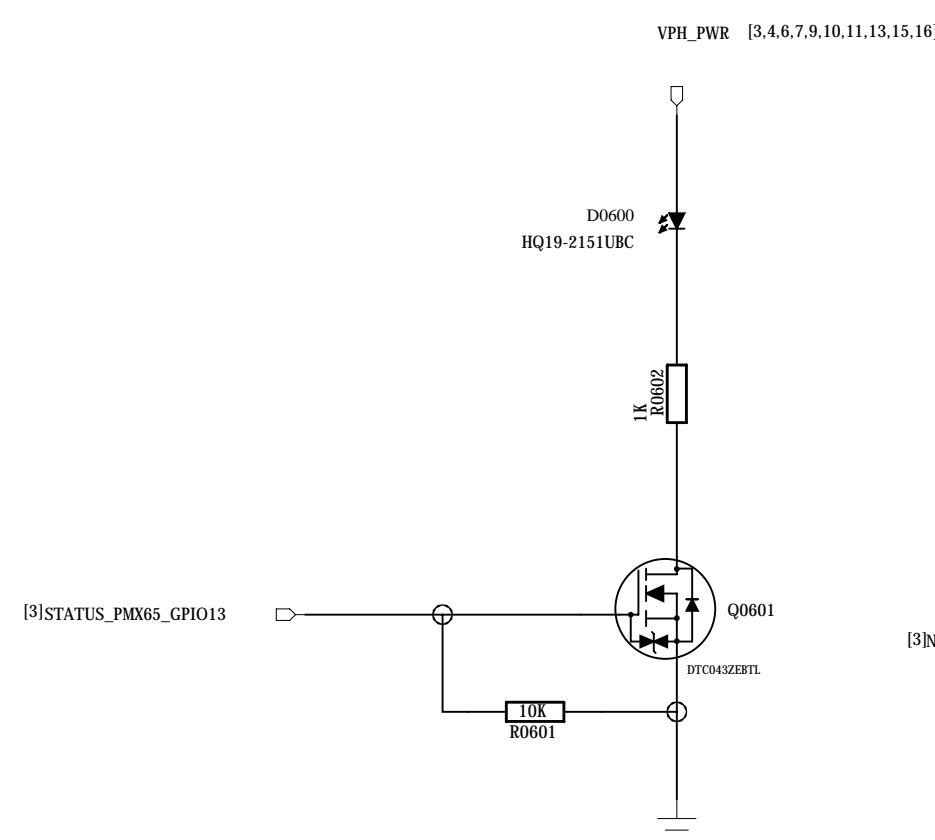
LED



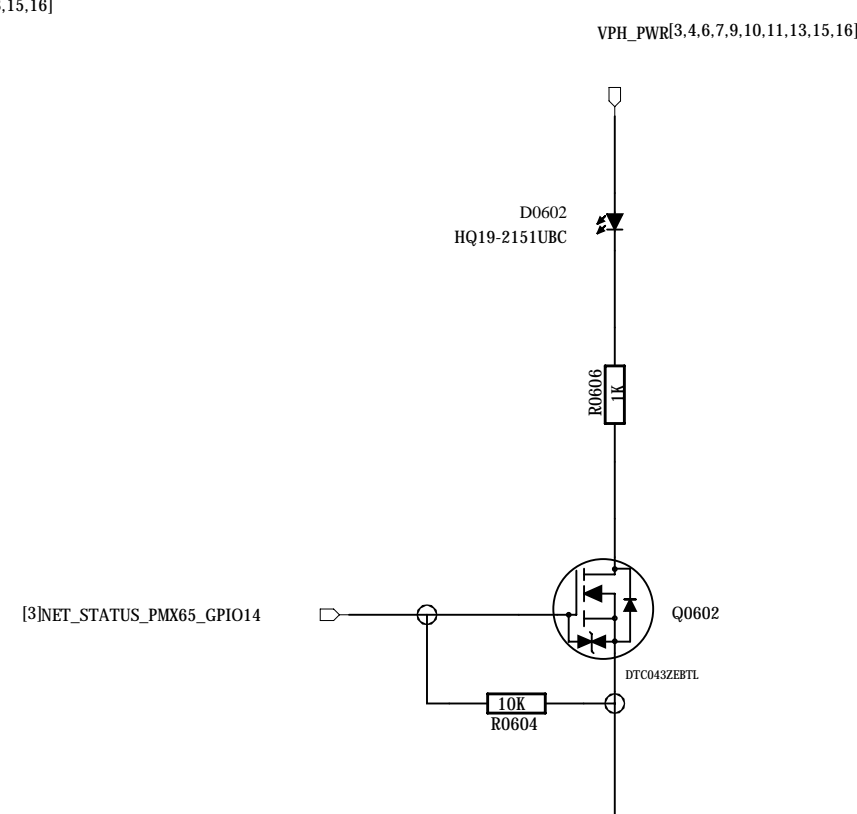
POWER LED



MODULE IN SLEEP LED

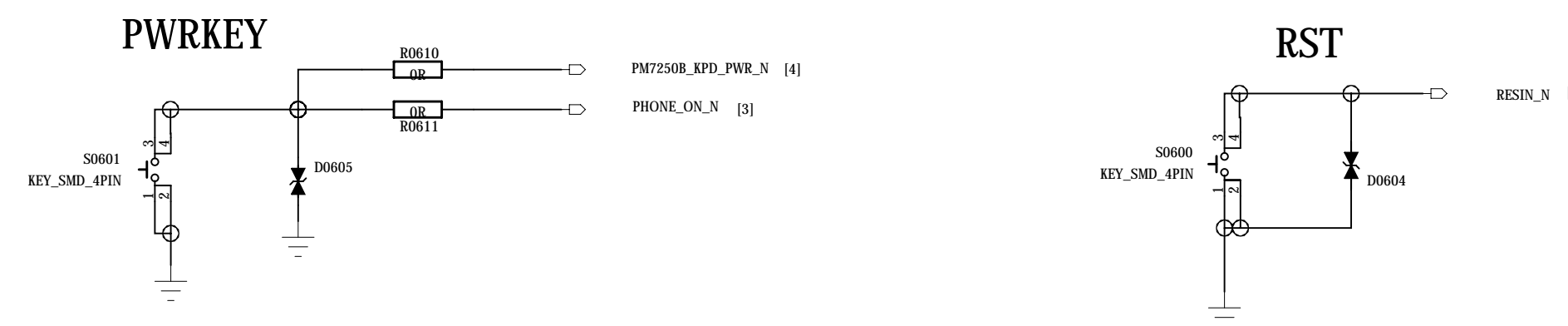


Module power-on OK indicator LED

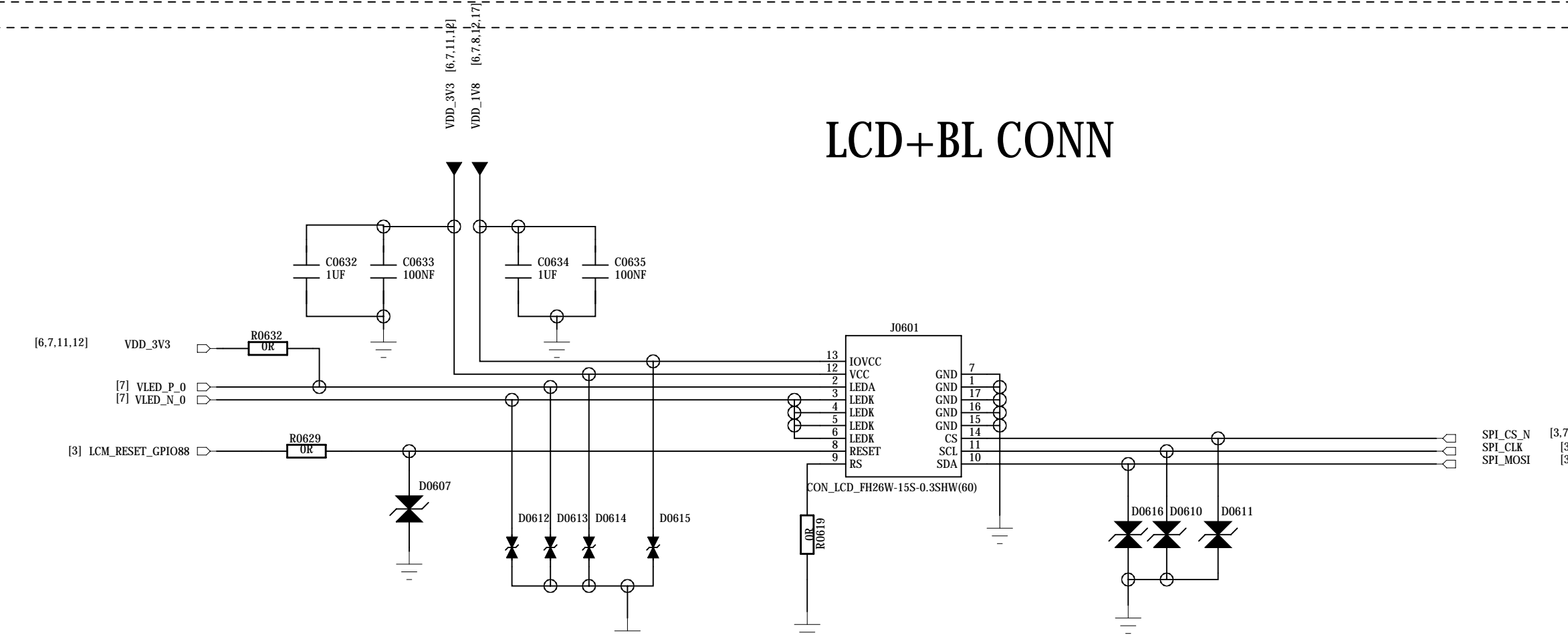


Module network status indicator LED

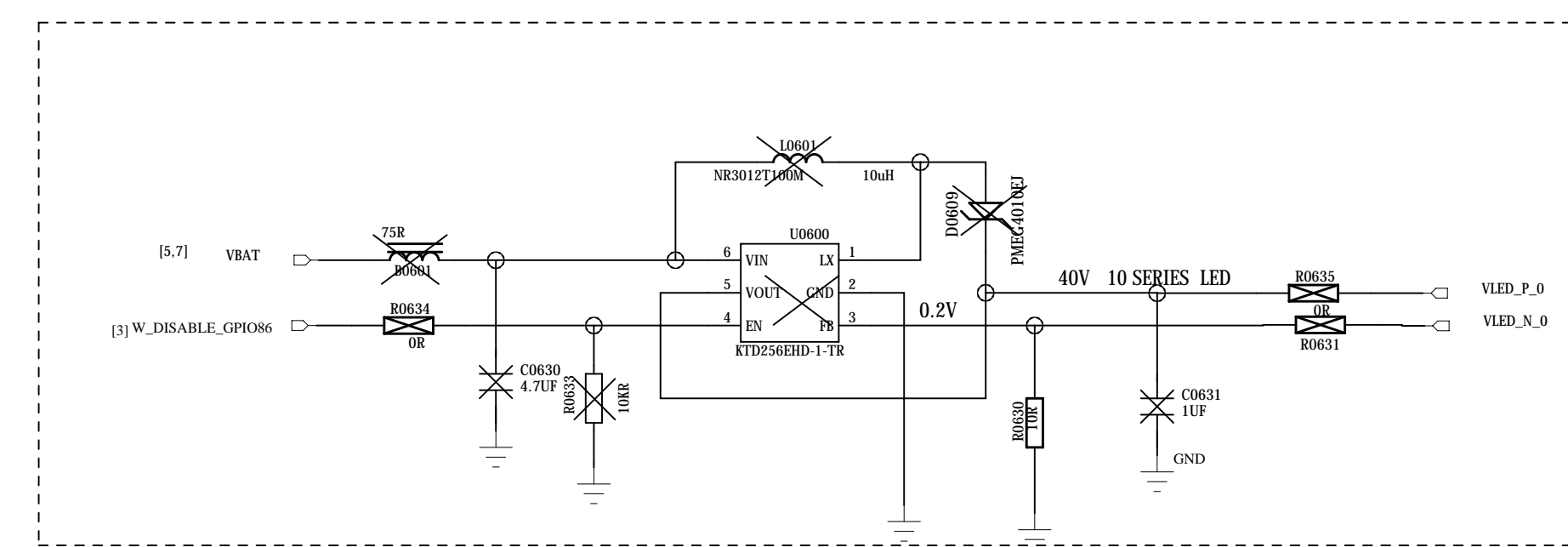
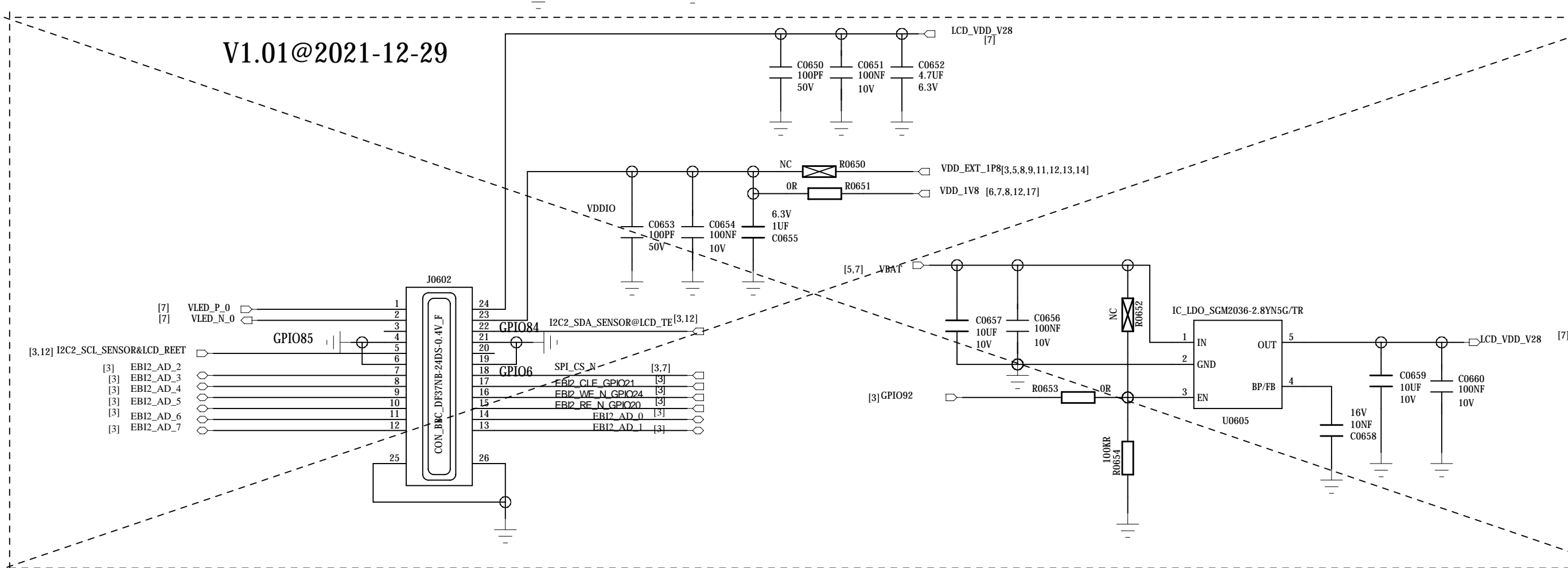
KEY



LCD+BL CONN



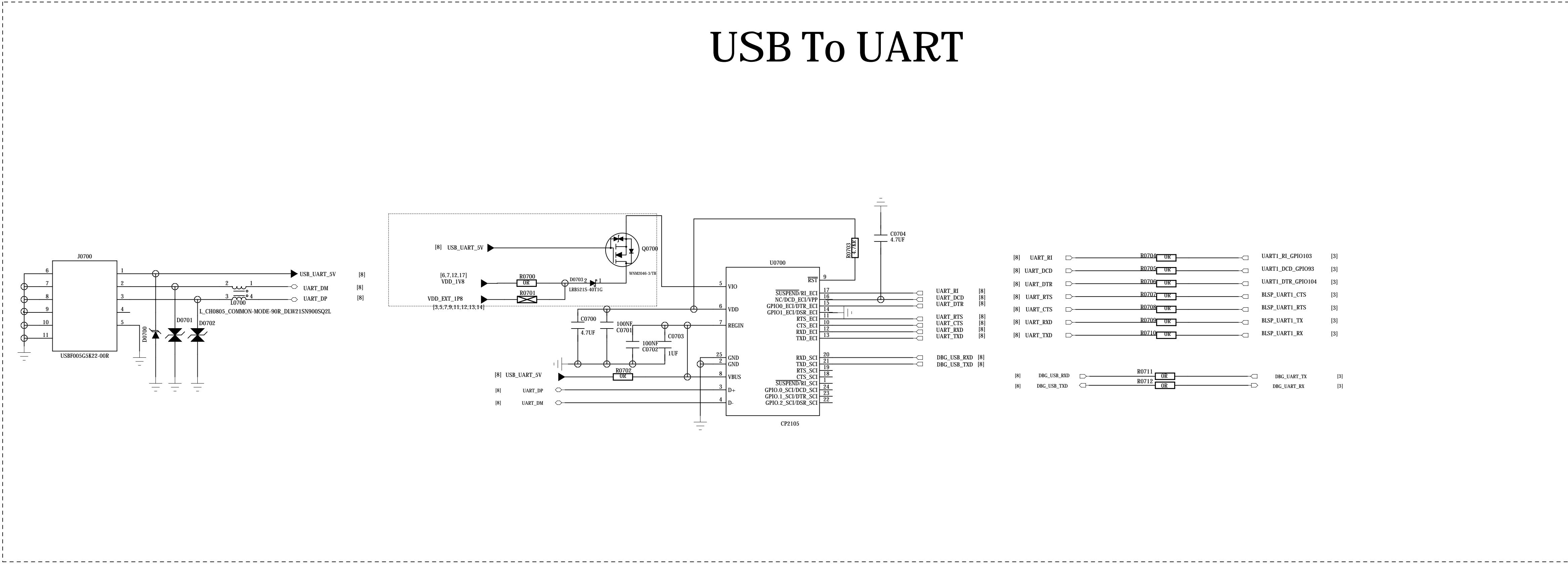
V1.01@2021-12-29



COMPANY: SIMCOM			
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DRAWN: yaling.wang	DATE: 2021-12-29	CODE:	SIZE: A1
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QUALITY CONTROL:	DATE:	SCALE: <Scale>	
RELEASED:	DATE:	SHEET: 7 of 17	

REVISION RECORD			
ITER	ECO NO.	APPROVED:	DATE:

USB To UART



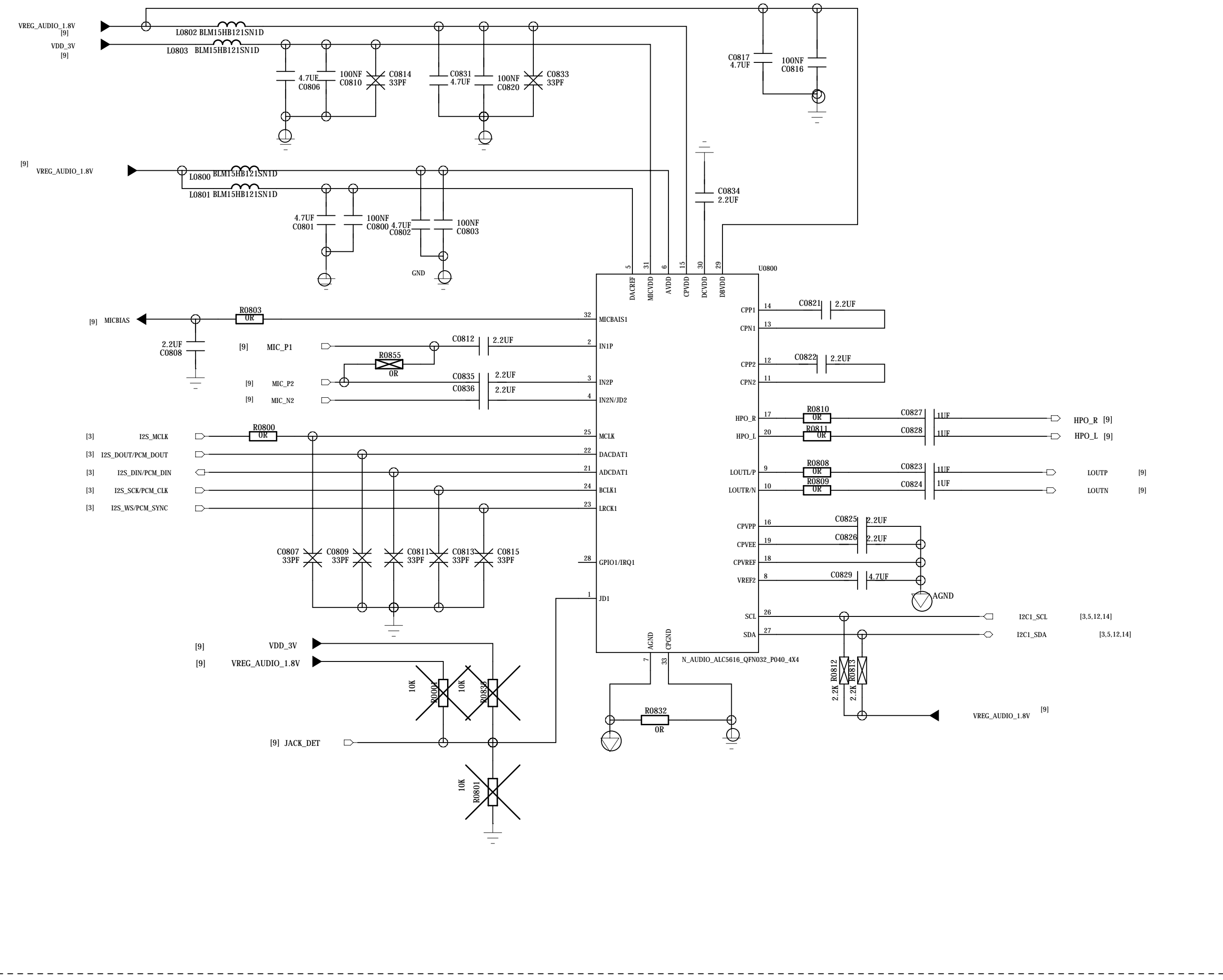
[8] UART_RI	R0704	0R	UART1_RI_GPIO103	[3]
[8] UART_DCD	R0705	0R	UART1_DCD_GPIO93	[3]
[8] UART_DTR	R0706	0R	UART1_DTR_GPIO104	[3]
[8] UART_RTS	R0707	0R	BISSP_UART1_CTS	[3]
[8] UART_CTS	R0708	0R	BISSP_UART1_RTS	[3]
[8] UART_RXD	R0709	0R	BISSP_UART1_TX	[3]
[8] UART_TXD	R0710	0R	BISSP_UART1_RX	[3]
[8] DBG_USB_RXD	R0711	0R	DBG_UART_TX	[3]
[8] DBG_USB_TXD	R0712	0R	DBG_UART_RX	[3]

COMPANY: SIMCOM			
TITLE: SIM8260 Series_V1.00_KDL			
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SCALE: <Scale>			SHEET: 8# 17

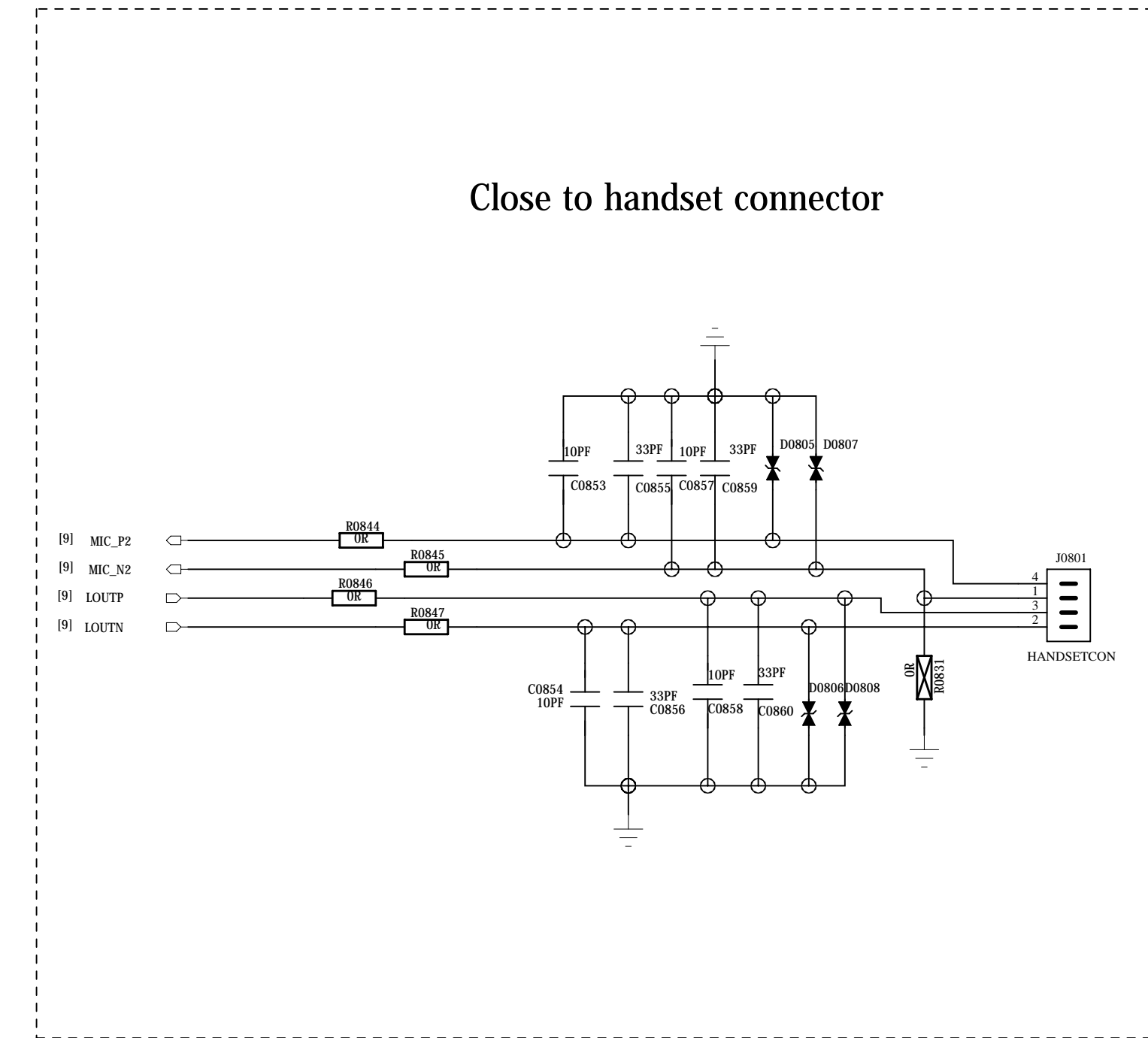
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LTR	ECO NO.	APPROVED	DATE

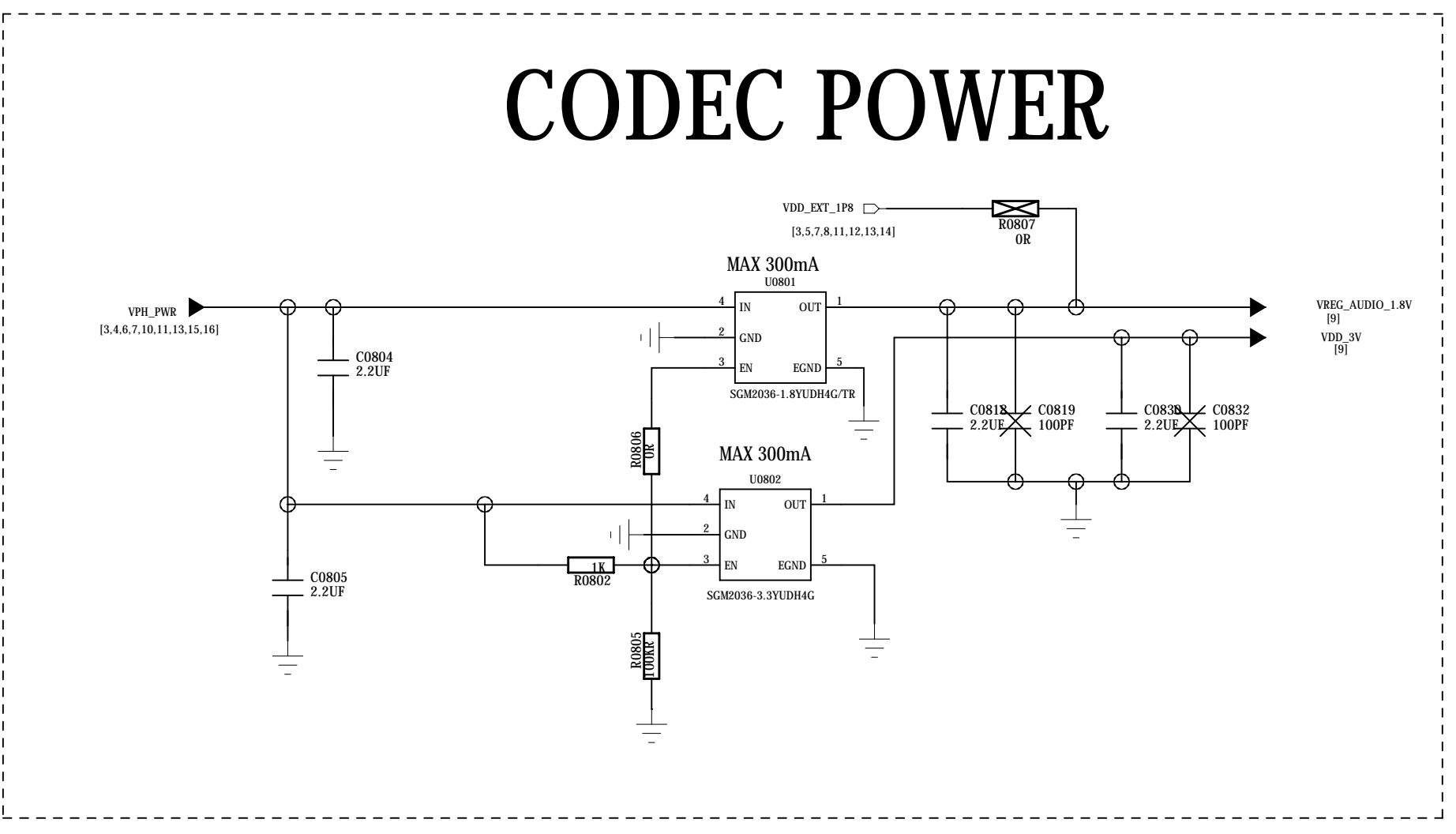
CODEC_REALTEK_ALC5616



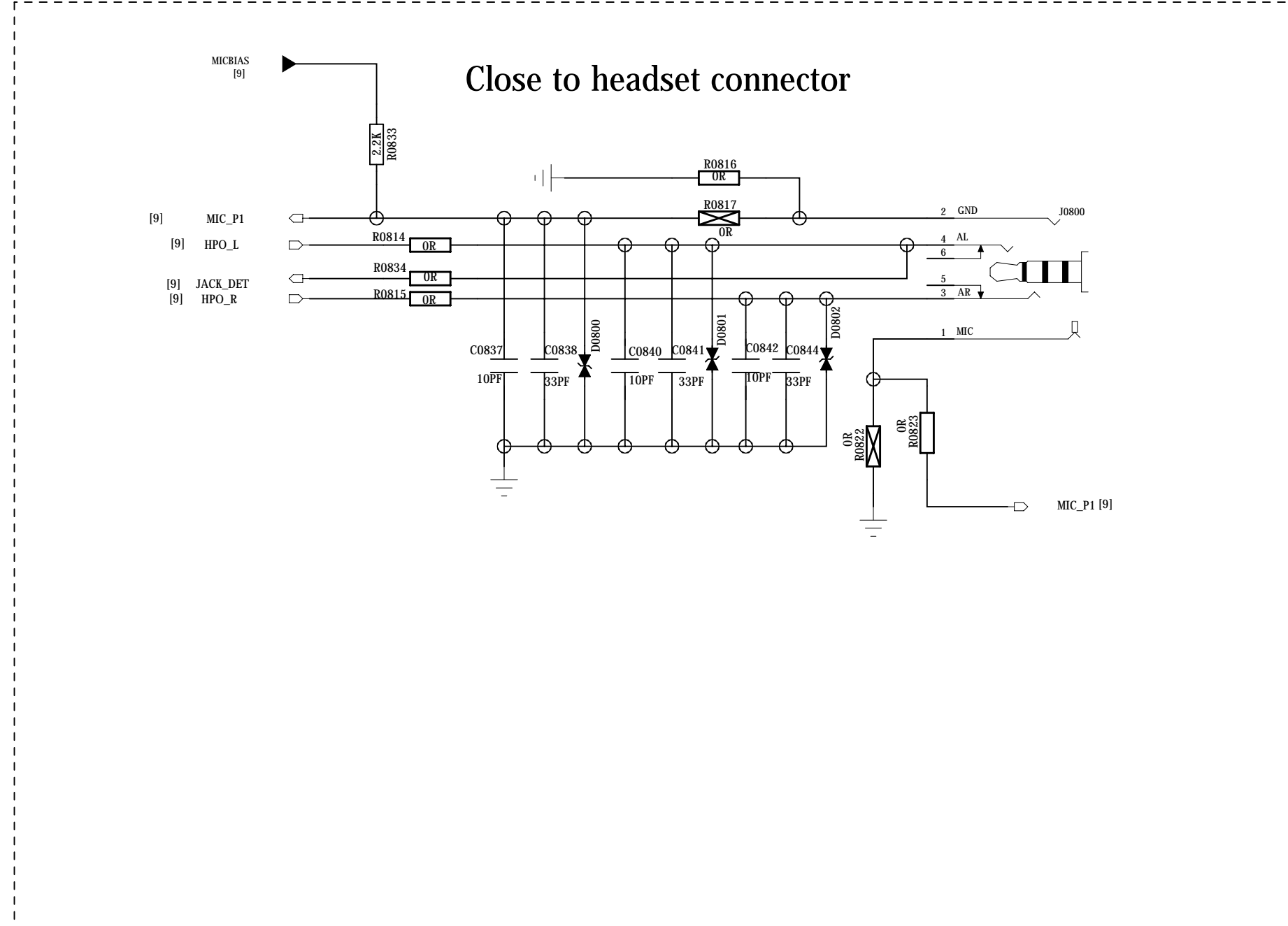
Close to handset connector



CODEC POWER



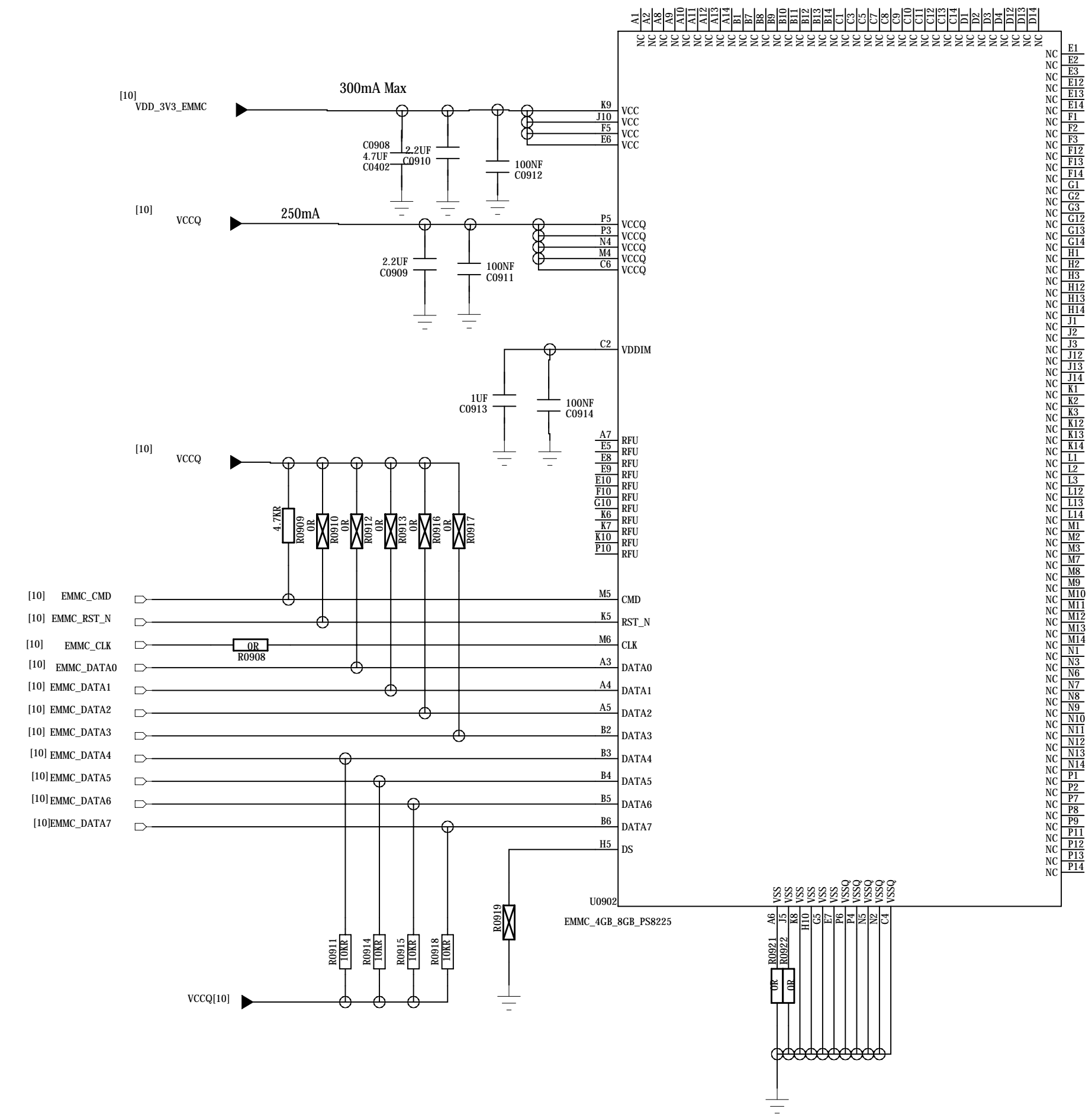
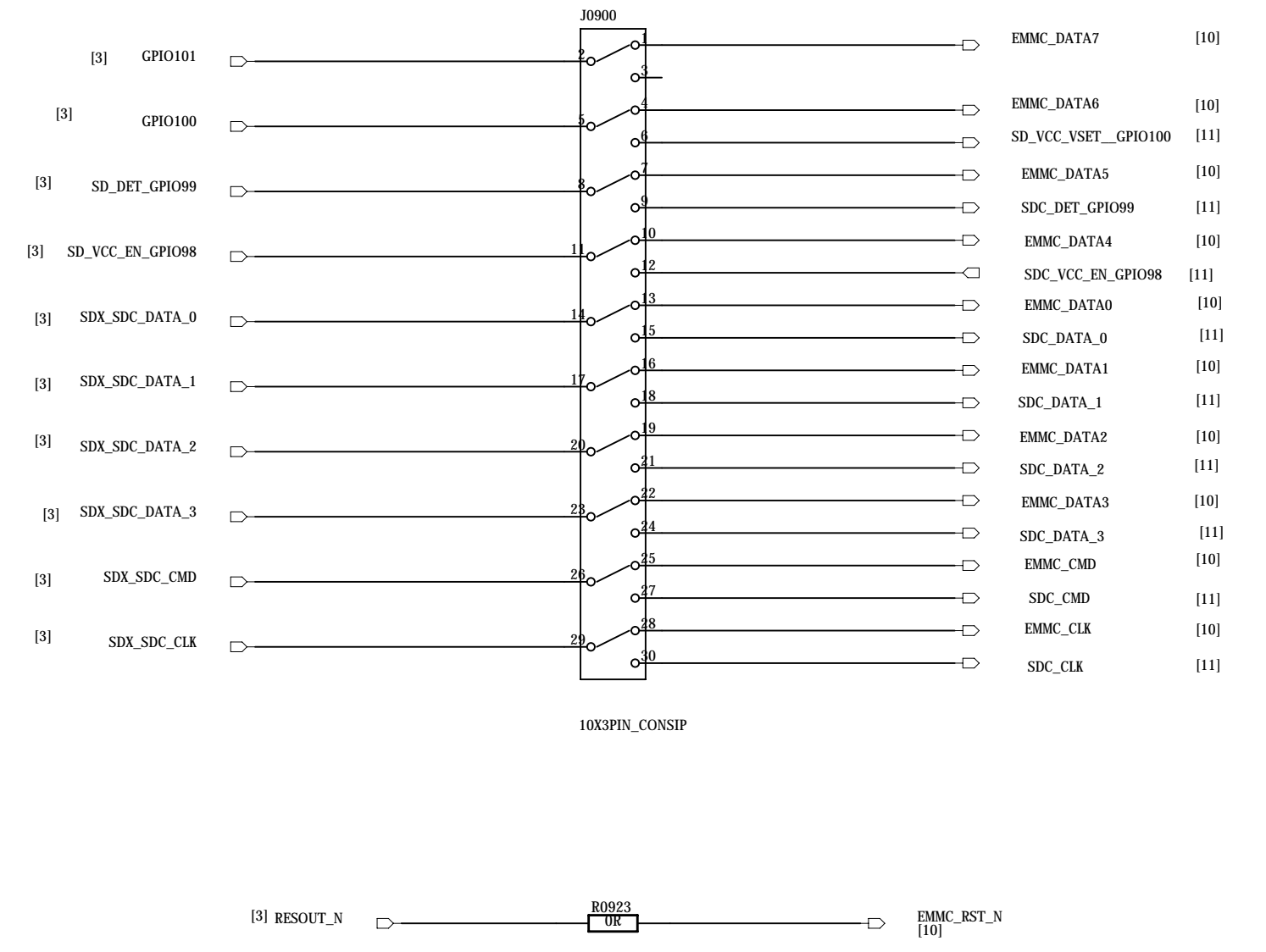
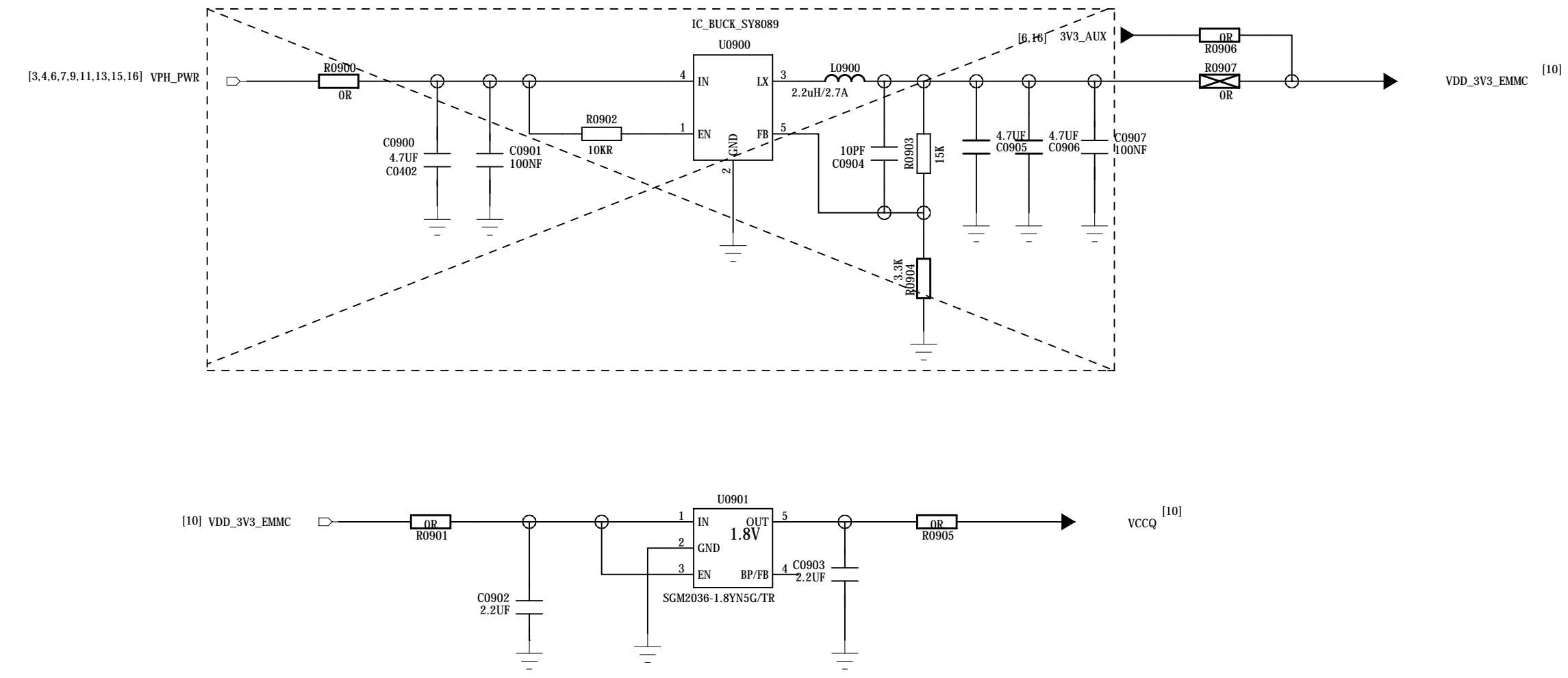
Close to headset connector



COMPANY: SIMCOM			
TITLE: SIM8260 Series_V1.00_KDL			
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	A1		
SCALE: <Scale>			SHEET: 9# 17

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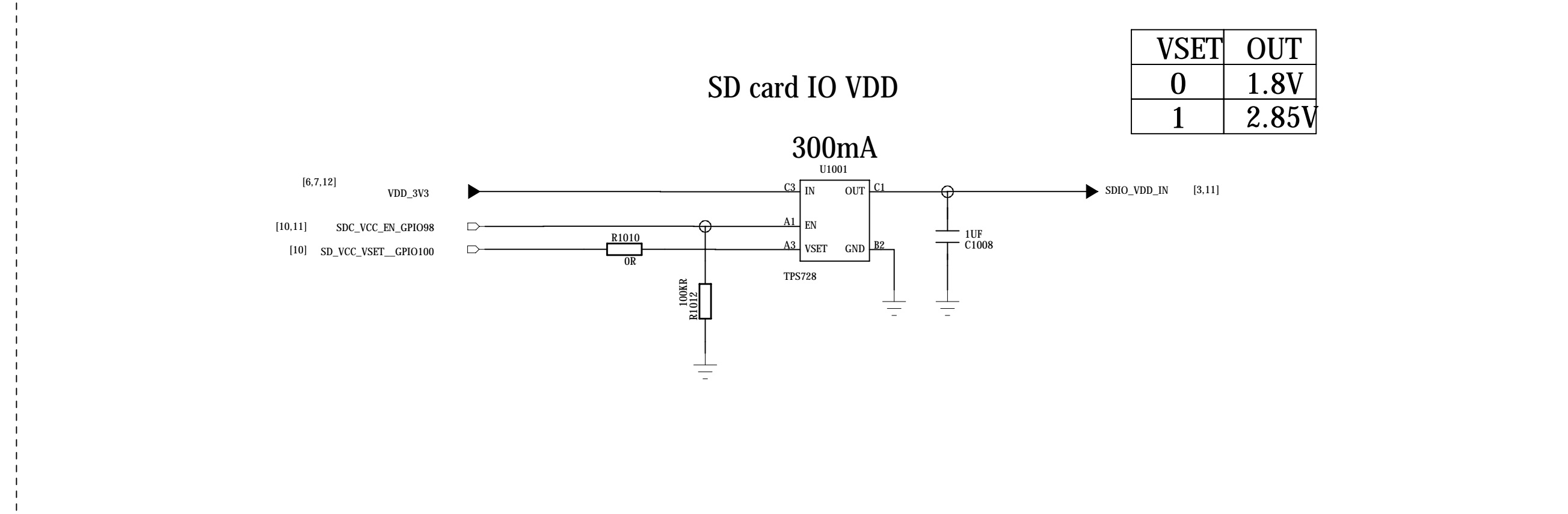
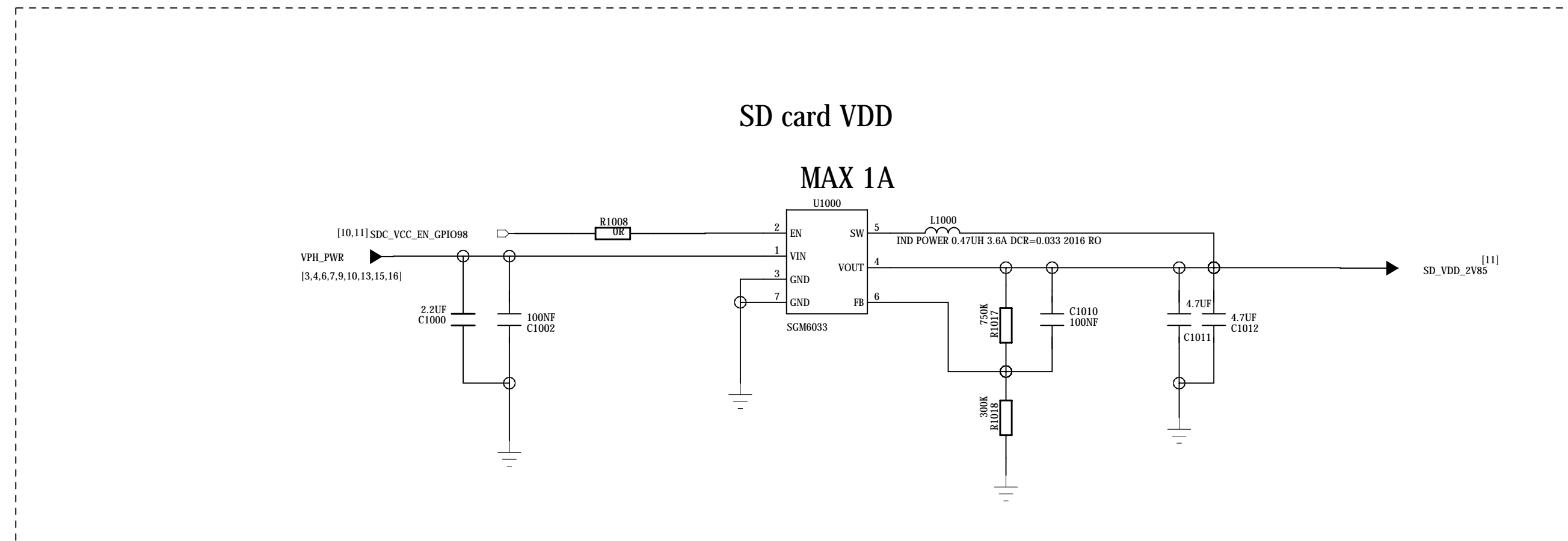
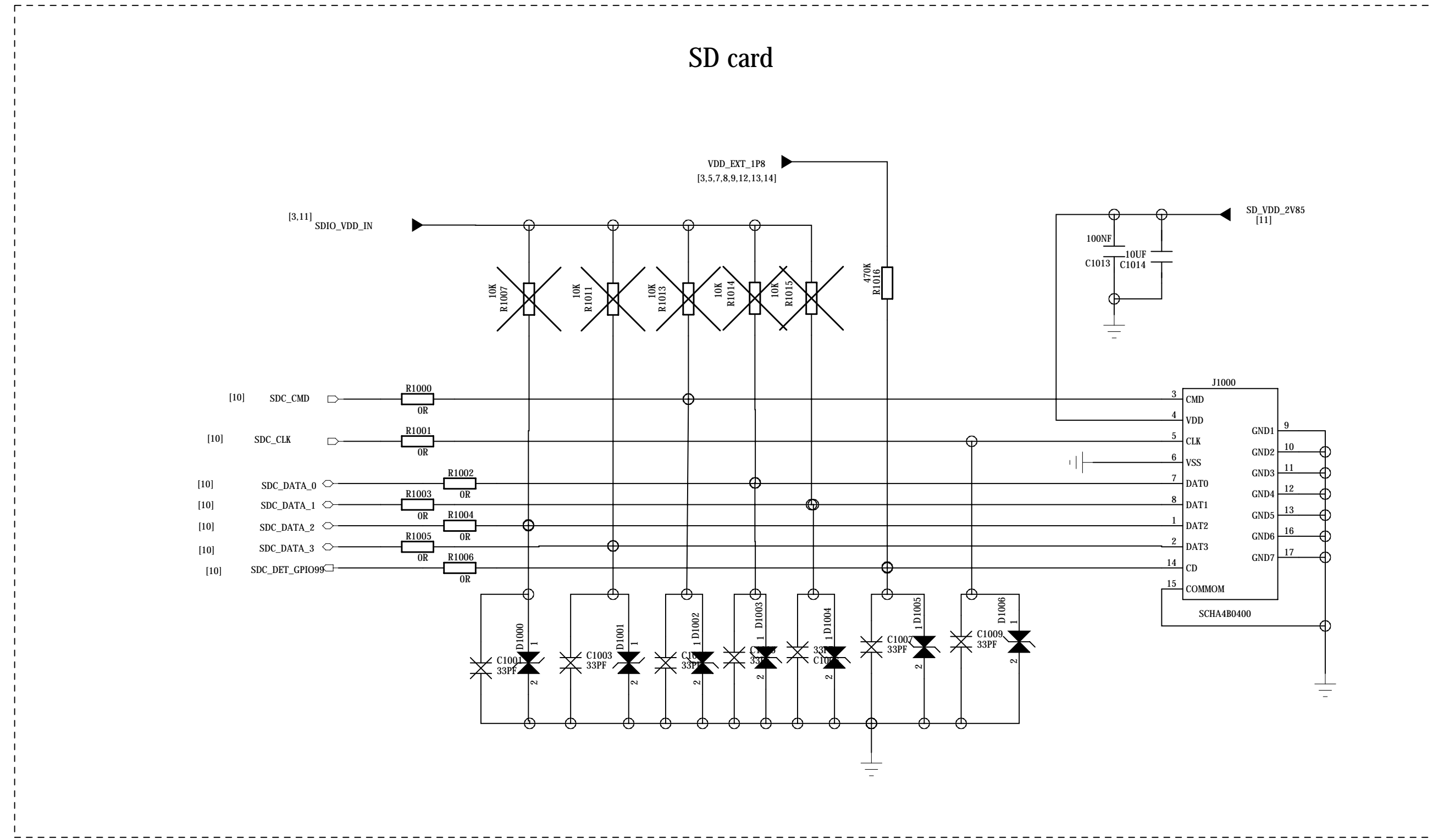


Notes
 1. If use eMMC function SD_VDD=1.8V
 2.Route SDIO signal traces with 50Ω impedance, and it is important to route the SDIO signal traces with total grounding

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QUALITY CONTROL: XX	DATE: XX	DRAWING NO:	REV:
RELEASED: XX	DATE: XX	SCALE: <Scale>	SHEET: 10 / 17

COMPANY: SIMCOM
 TITLE: SIM8260 Series_V1.00_KDL

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ITR	ECO NO.	APPROVED:	DATE:



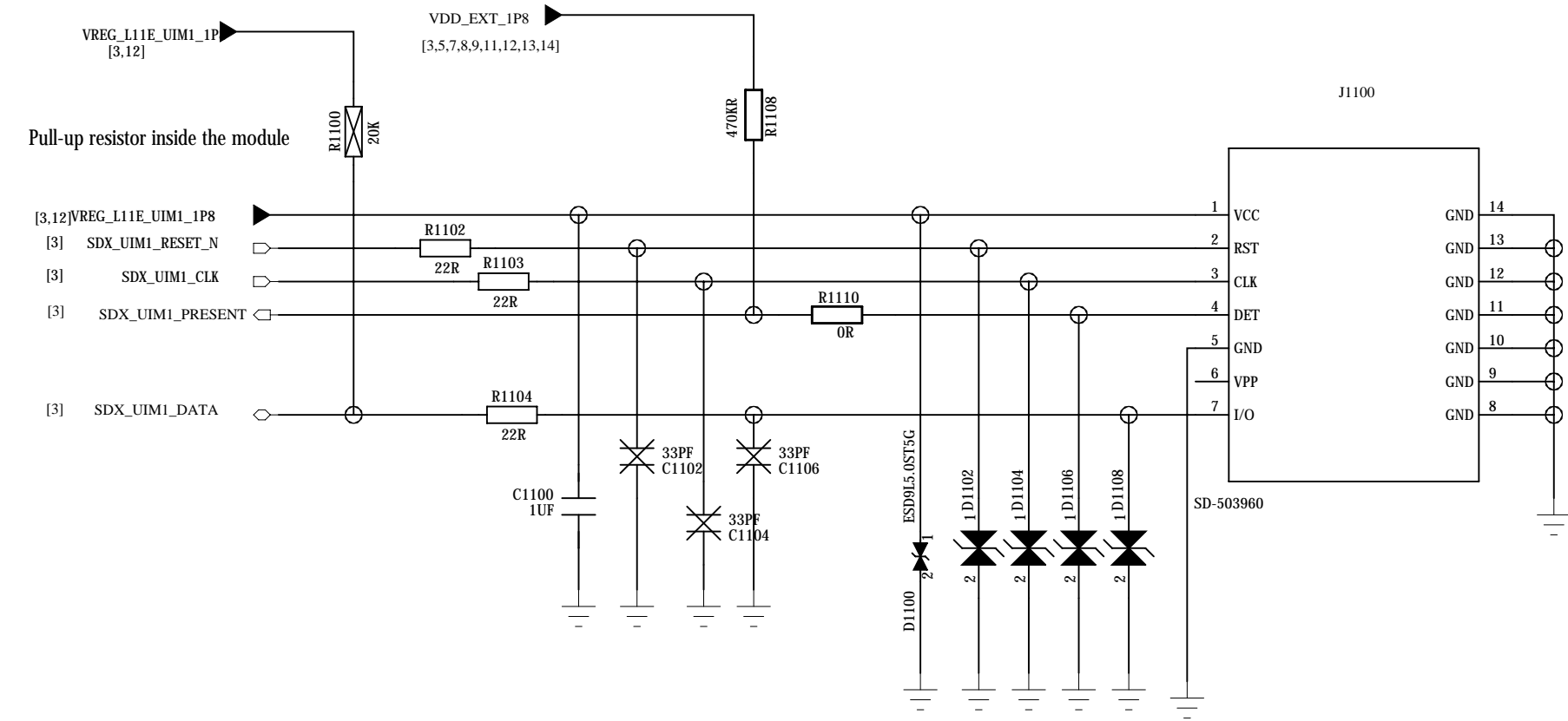
Notes

1. If not use SDIO function SD_VDD connect to VDD_EXT
2. SD_VDD_2V85 sufficient current up to 0.8A needs to be provided. The decouple capacitor need close to connector
3. To avoid jitter of bus, resistors are needed to pull up the SDIO to VDD_SDIO. The value of these resistors is among 10kohm~100kohm and the recommended value is 10kohm
4. It is recommended to add ESD protection devices near the pins of SD card connector. The parasitic capacitance of ESD protection devices should be smaller than 2pF
5. Keep SDIO signals far away from other sensitive circuits/signals such as RF circuits, analog signals, etc., as well as noise such as clock and DC-DC signals, etc
6. Route SD card signal traces with 50Ω impedance, and it is important to route the SDIO signal traces with total grounding
7. Make sure the adjacent trace spacing is two times of the trace width and the bus capacitance is less than 40pF.
8. It is recommended to keep the trace length difference between CLK and DATA/CMD less than 1mm and the exterior total trace length should be less than 23mm
9. The pin DETECT of SD card connector must be connected to the module when SD card function is used.

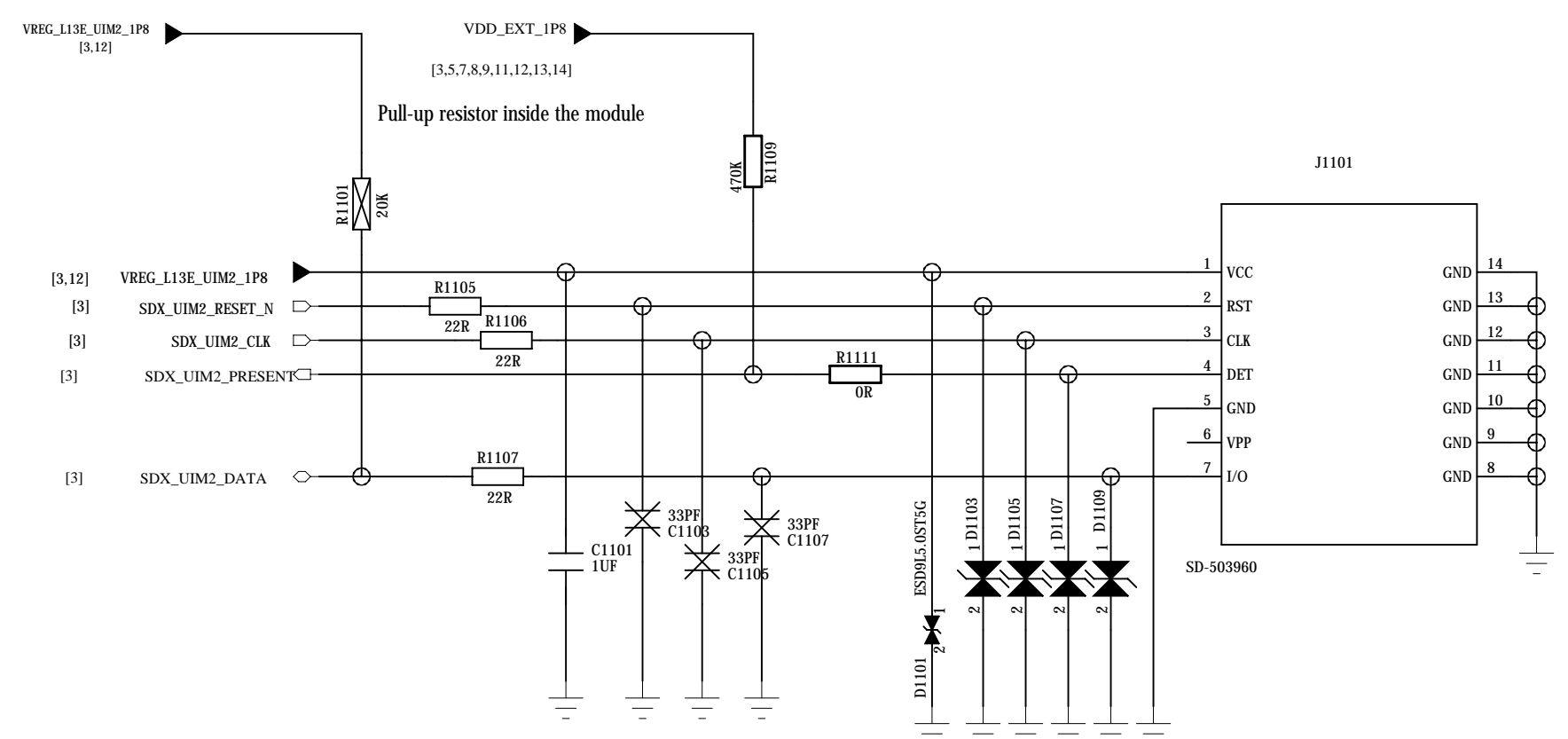
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TITLE:			
SIM8260 Series_V1.00_KDL			
DRAWN:	DATE:	CODE:	SIZE:
yaling.wang	2021-12-29		A1
CHECKED:	DATE:	DRAWING NO.:	BY:
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ITER	ECO NO.	APPROVED:	DATE

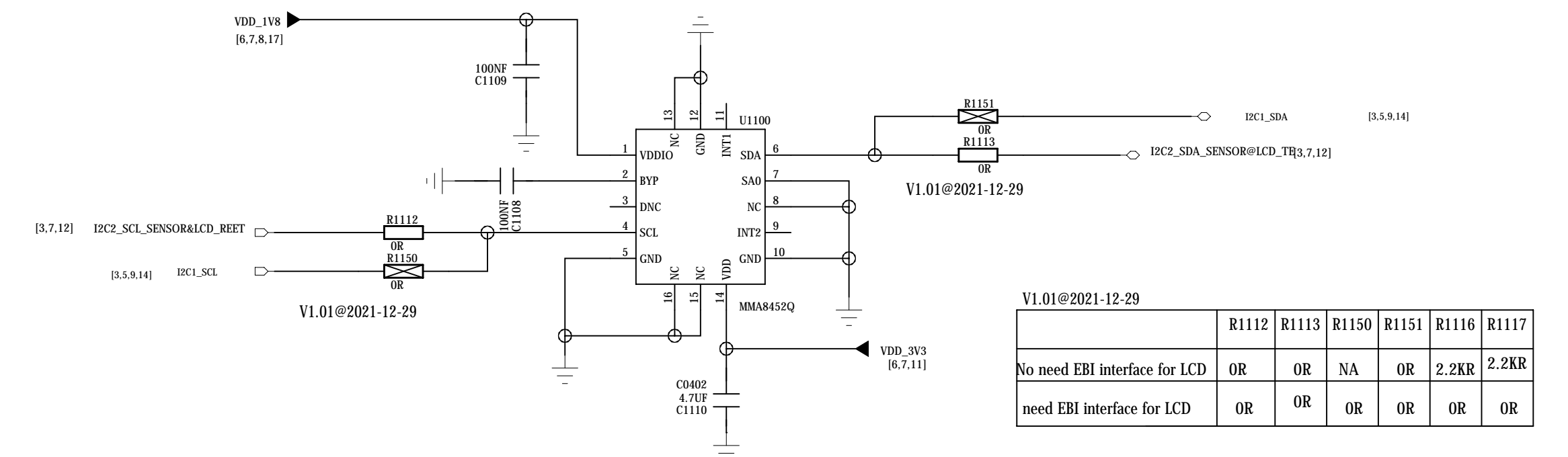
(U)SIM1 card



(U)SIM2 card



3-AXIS ACCELEROMETER SENSOR



Notes

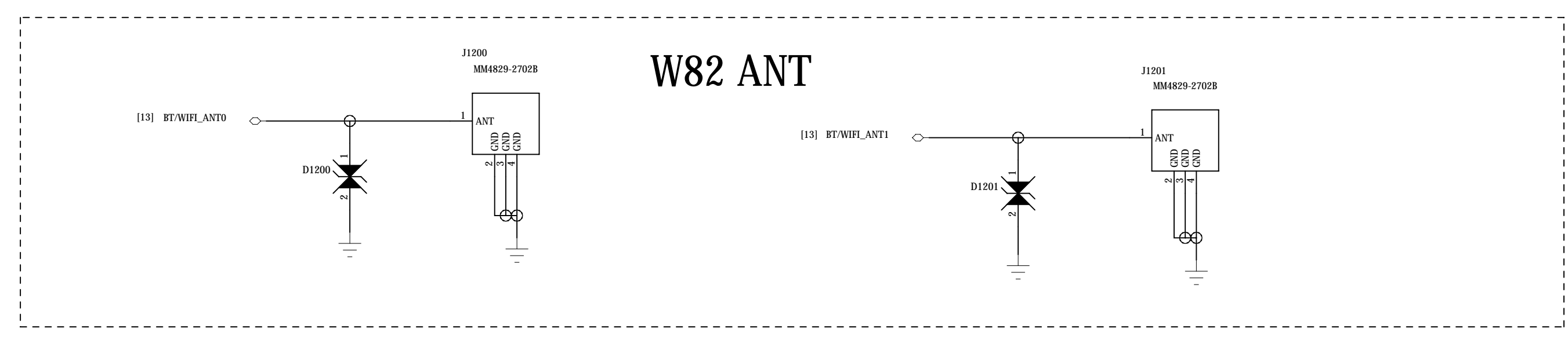
- Note that I2C addresses cannot conflict when selecting various sensors.
- I2C pull-up resistor, 2.2K be recommended

Notes

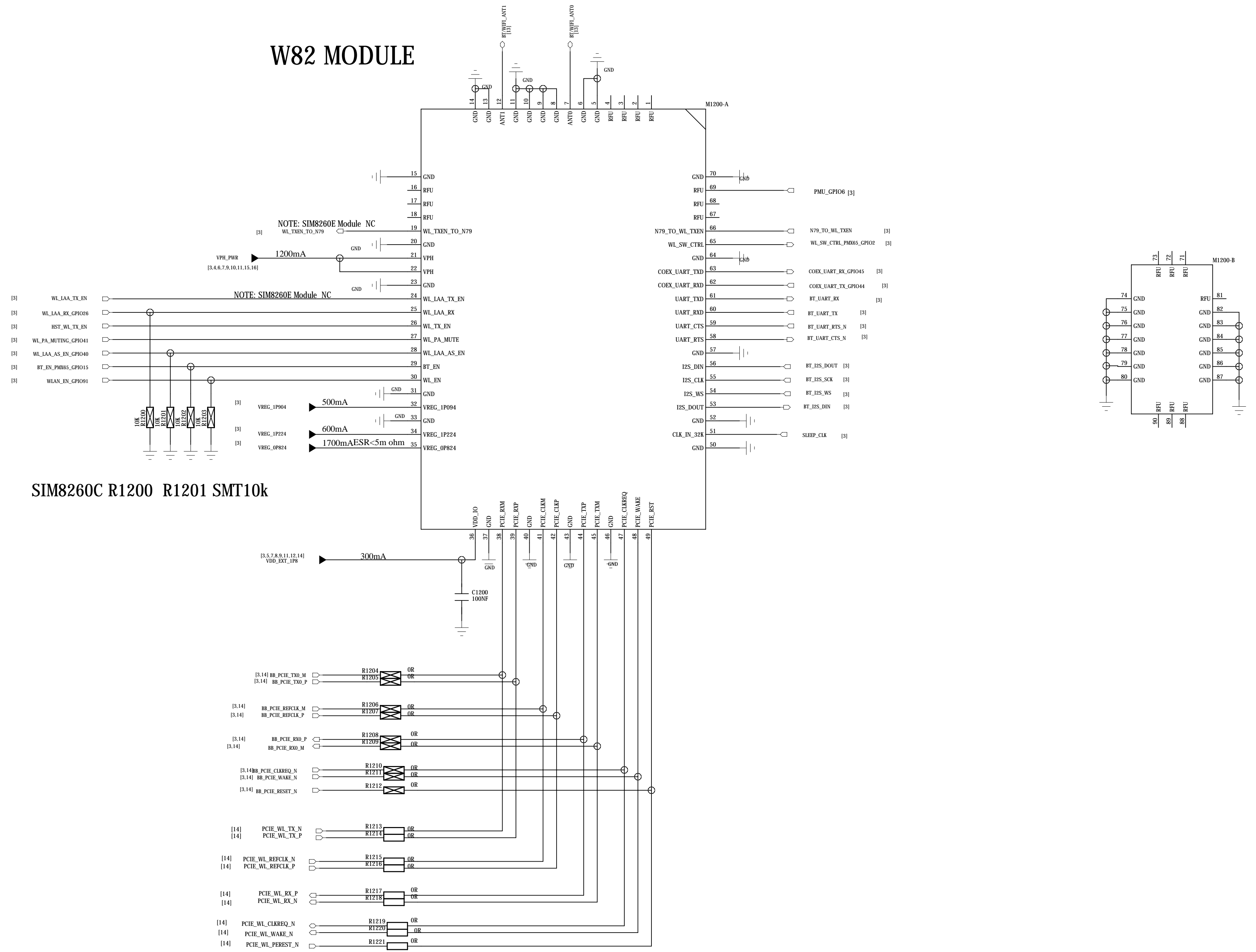
- The decouple capacitor of VDD_USIM should be less than 1uF and must be near to (U)SIM card connector
- It is recommended to take electrostatic discharge (ESD) protection measures near the (U)SIM card connector. The TVS diode with junction capacitance less than 10 pF must be placed as close as possible to the (U)SIM card connector
- R1101 R1100 can improve anti-jamming capability of the (U)SIM circuit. The module is internally designed with a 20K pull-up resistor.
- ESD devices need to be added to all SIM signal interfaces
- Module provides an input pin (USIM_DETECT) to detect whether the (U)SIM card exists or not. It supports low level level detections.

COMPANY: SIMCOM			
TITLE: SIM8260 Series_V1.00_KDL			
DRAWN: yaling.wang	DATE: 2021-12-29	CODE:	SIZE:
CHECKED: XX	DATE: XX	DRAWING NO:	REV:
QUALITY CONTROL: XX	DATE: XX	A1	
RELEASED: XX	DATE: XX		
SCALE: <Scale>		SHEET: 18 17	

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ITER	ECO NO.	APPROVED:	DATE:



W82 MODULE



SIM8260C R1200 R1201 SMT10k

- NOTE:
1. PCIE LAYOUT Required 85 Ω , differential impedance
 2. If not use LAA_RX and LAA_AS_EN, use a 10k resistor pull-down to GND
 3. For PCIE_CLKREQ_N/PCIE_WAKE_N, The module is internally designed with a 10K pull-up resistor.
 4. VREG_OP824 power for WIFI core, layout ESR MUST<0.01R

COMPANY: SIMCOM			
TITLE: SIM8260 Series_V1.00_KDL			
CODE:	SIZE: A1	DRAWING NO.:	REV:
SCALE: <Scale>		SHEET: 14 17	

DRAWN: yaling.wang	DATE: 2021-12-29
CHECKED: XX	DATE: XX
QUALITY CONTROL: XX	DATE: XX
RELEASED: XX	DATE: XX

PCIE SWITCH - INTERFACE

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TR	ECO NO.	APPROVED	DATE

D

D

C

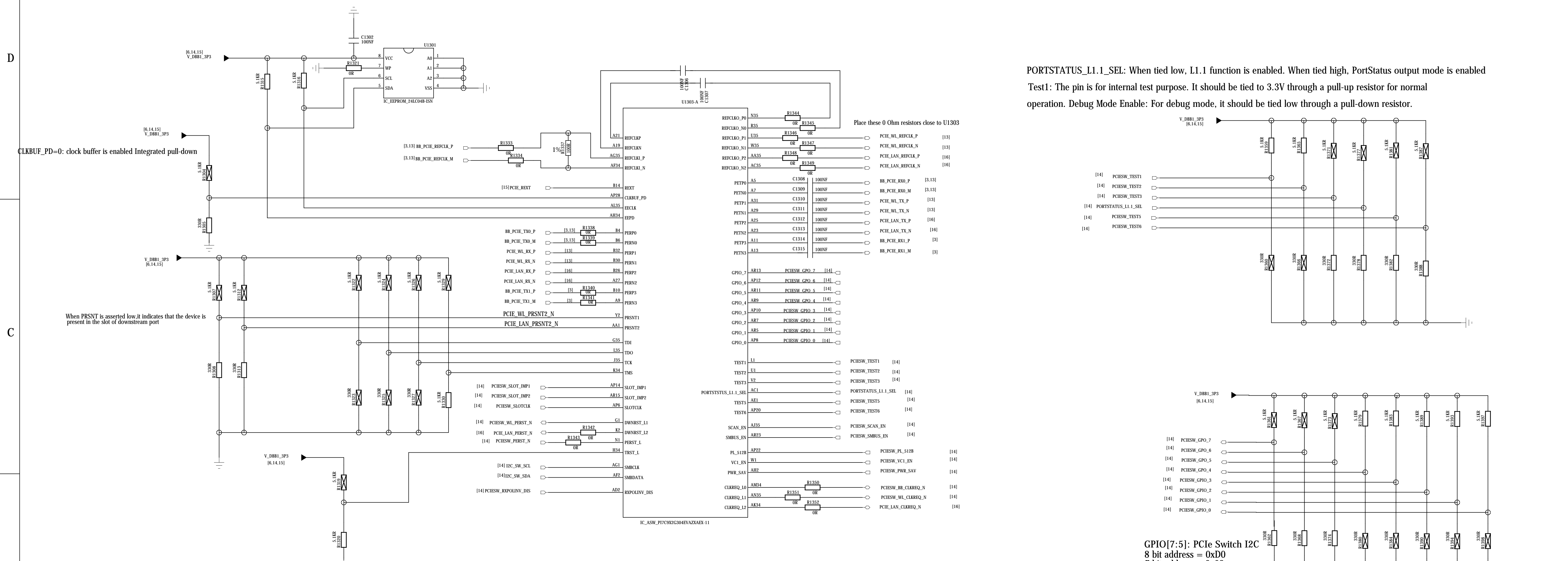
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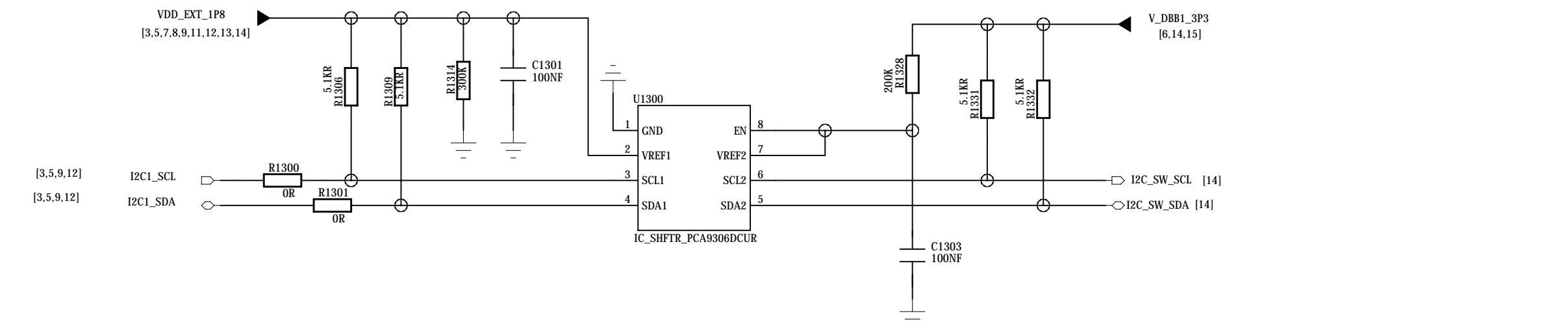
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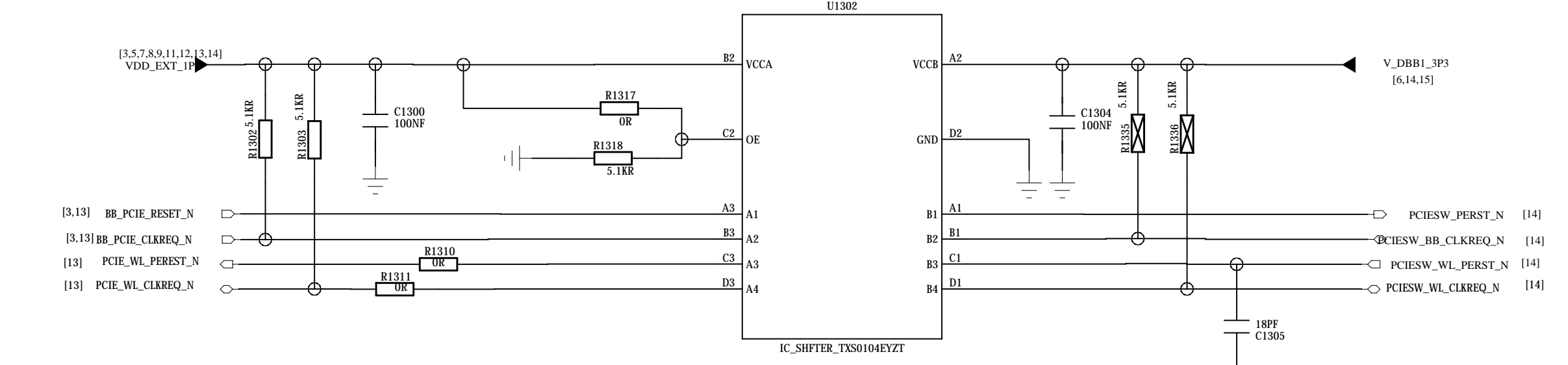
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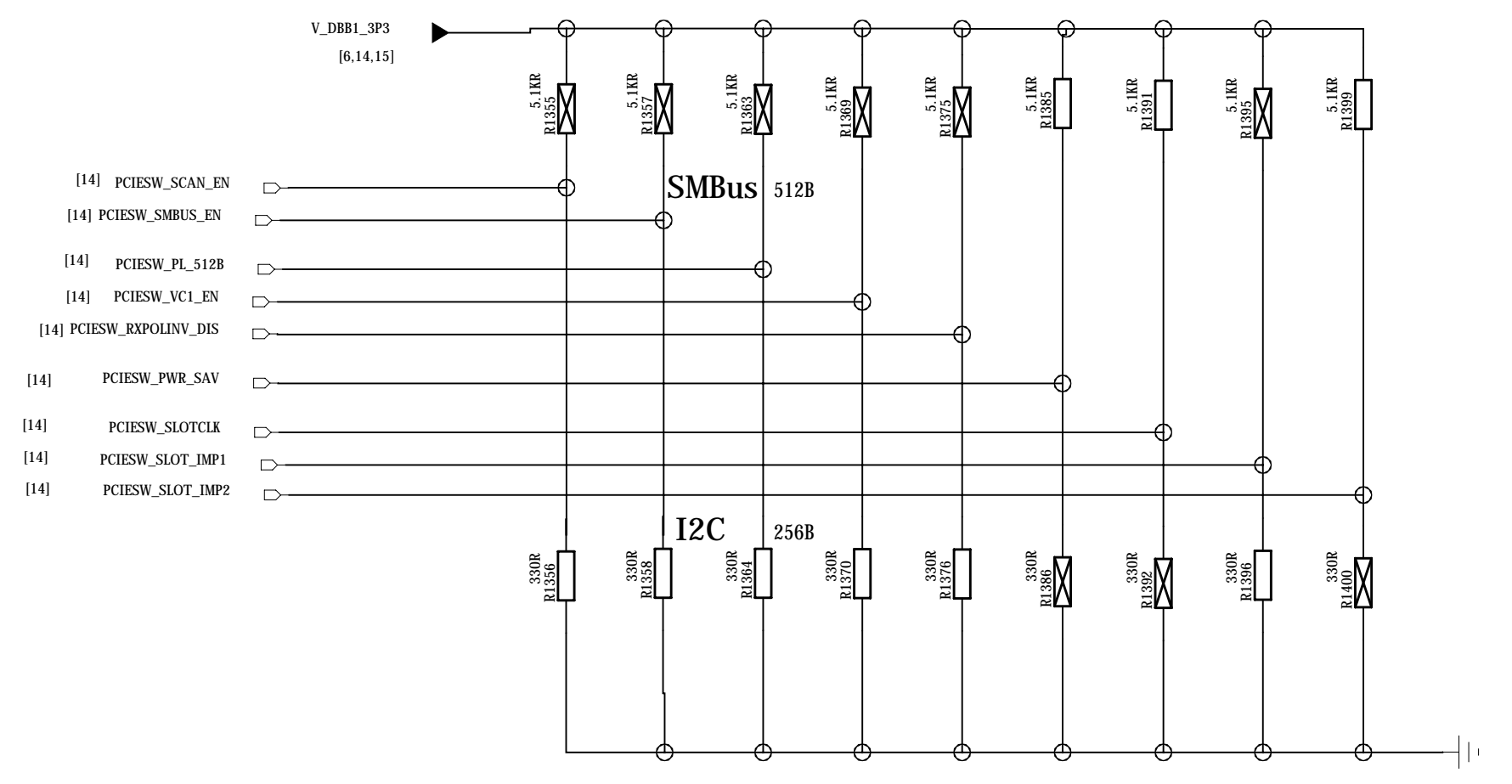
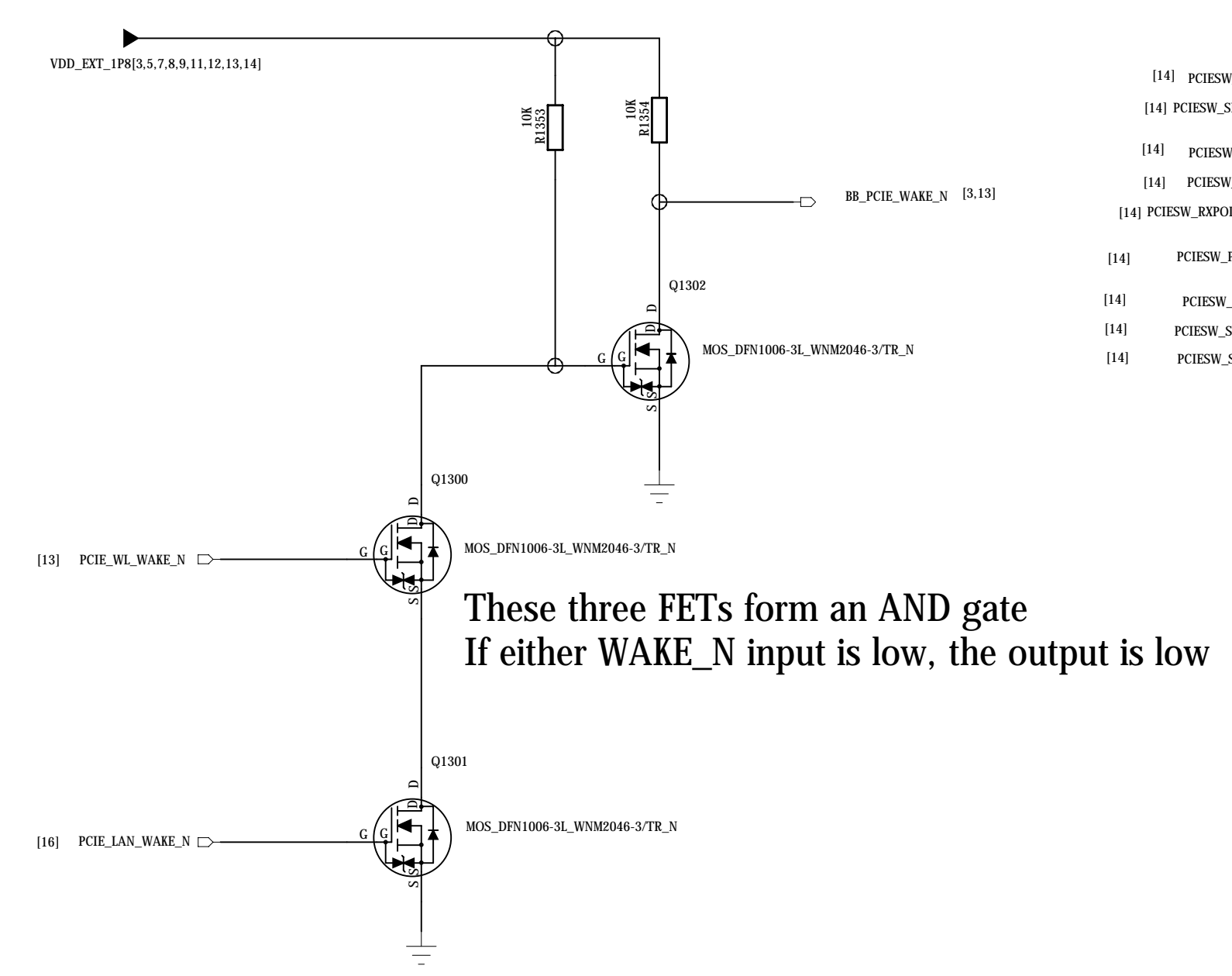
I2C LEVEL TRANSLATOR 1.8 - 3.3 V



PCIE LEVEL TRANSLATOR 1.8 - 3.3 V



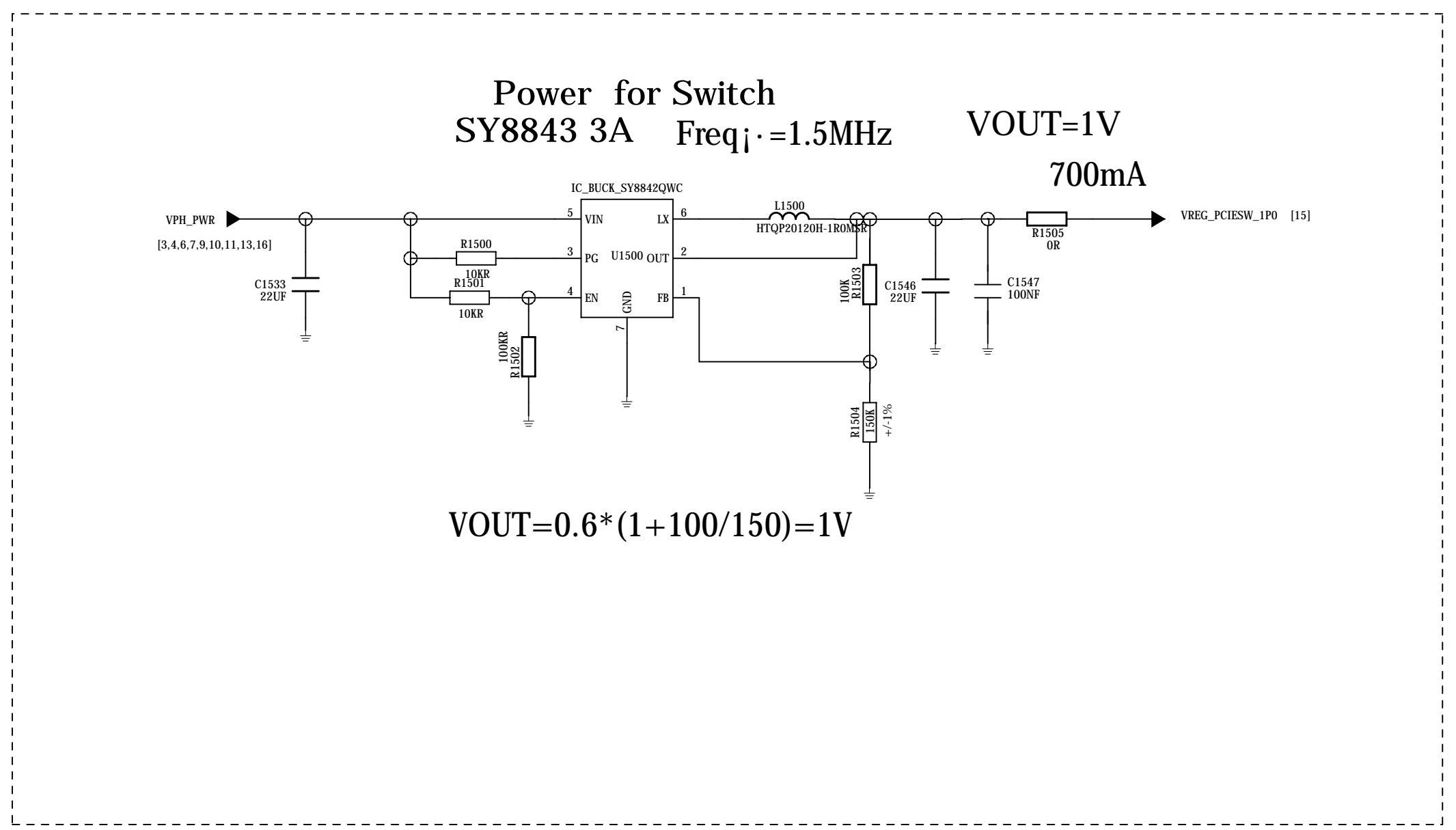
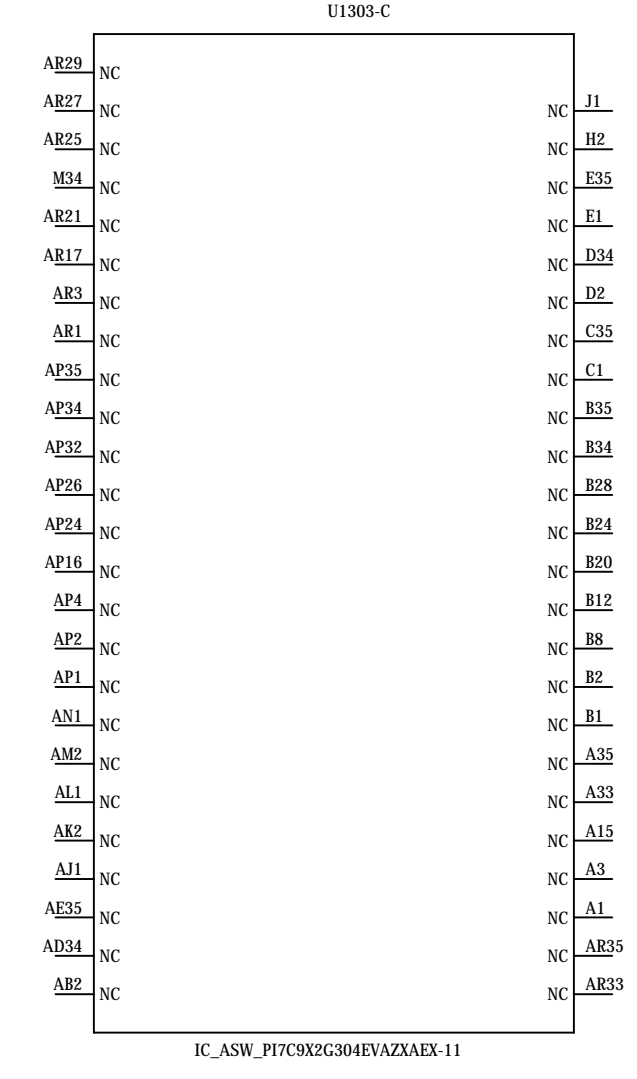
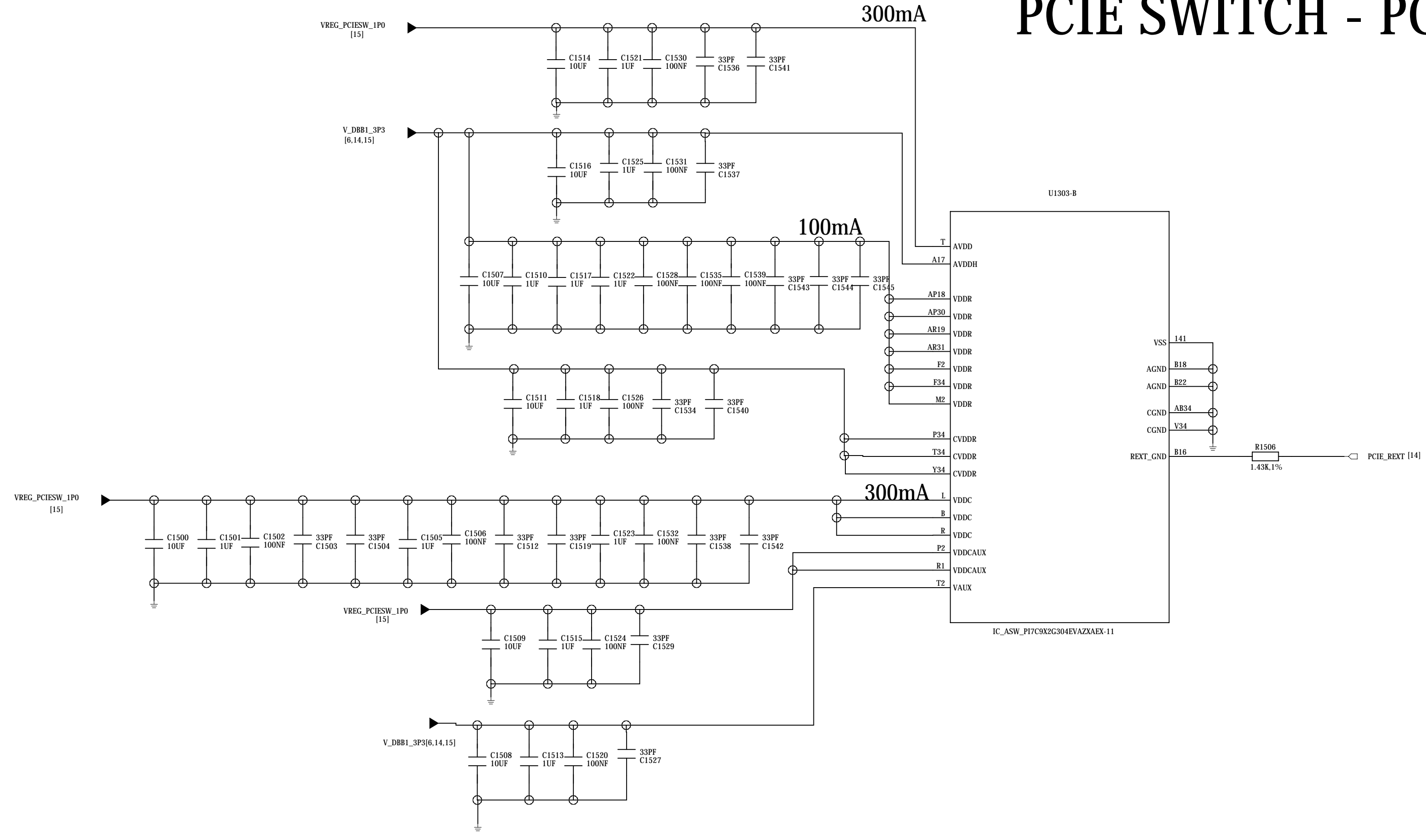
WAKE CIRCUITRY



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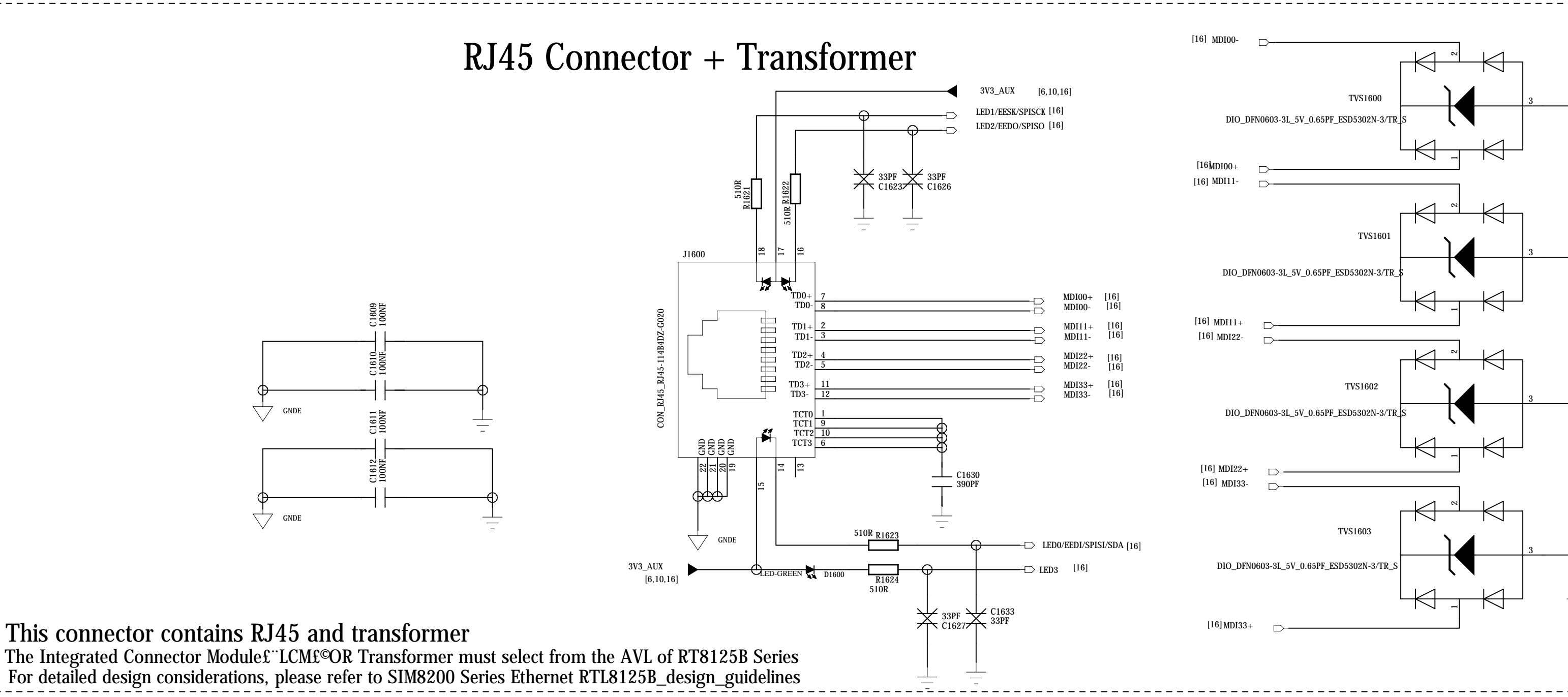
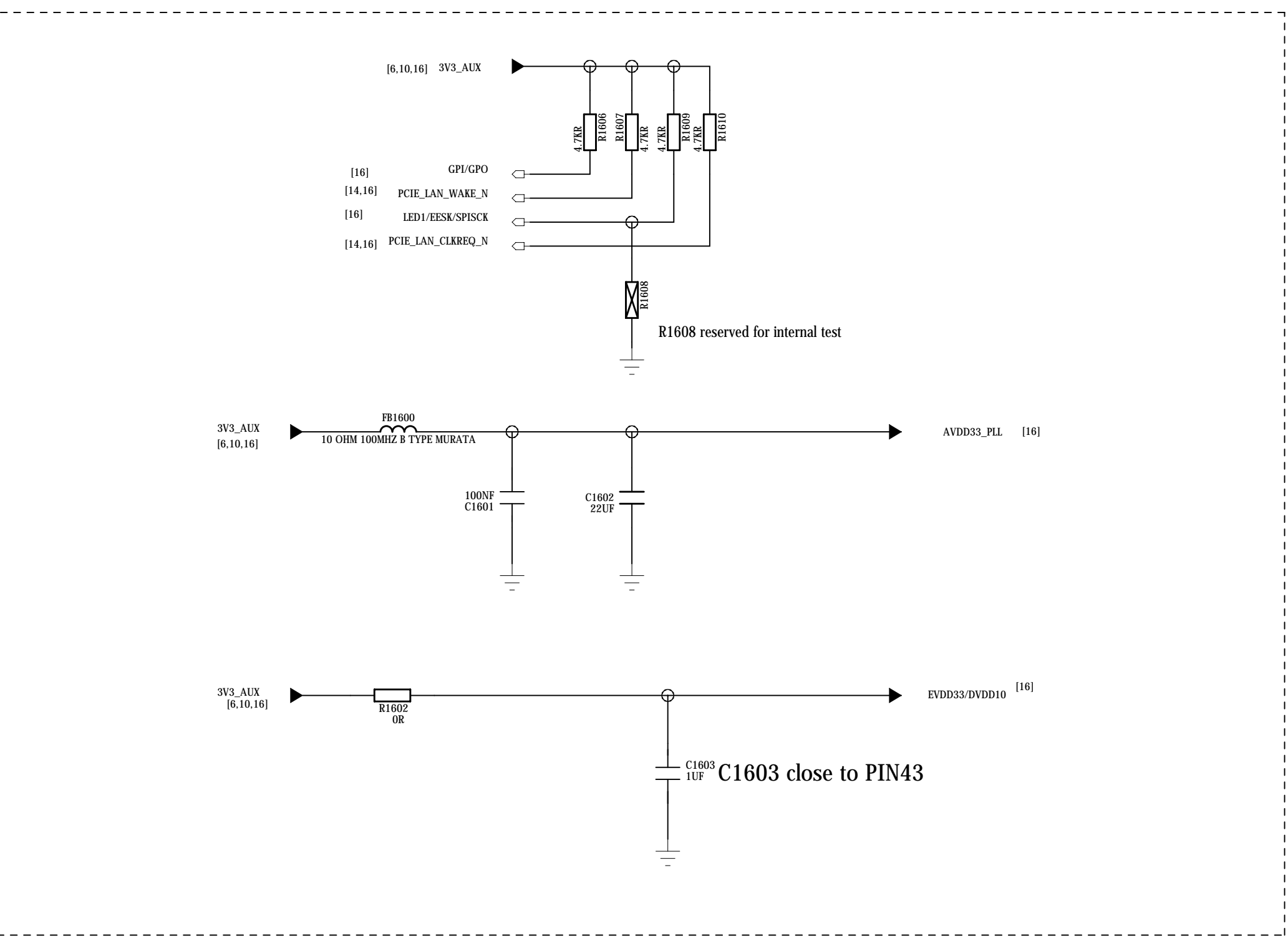
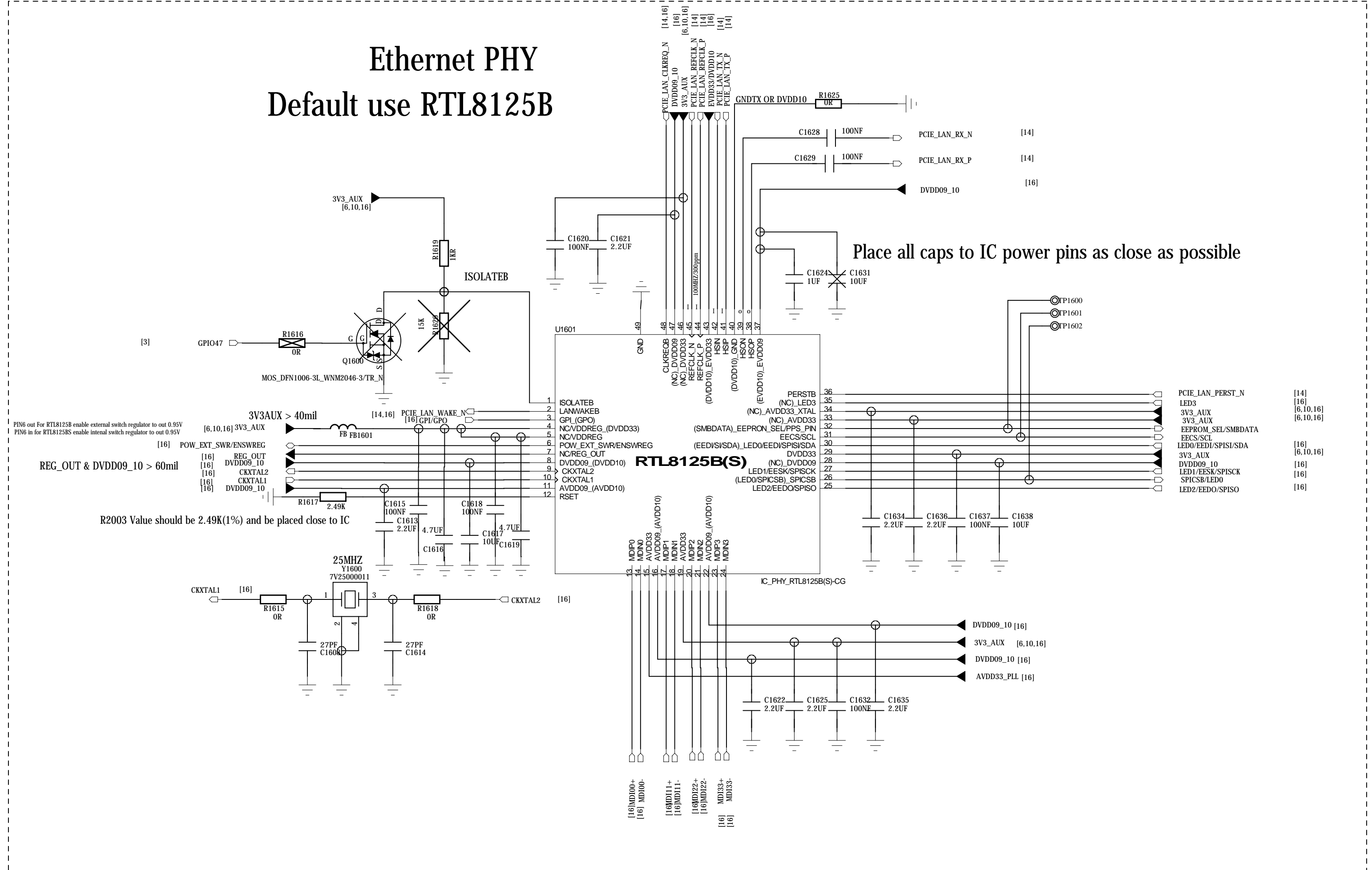
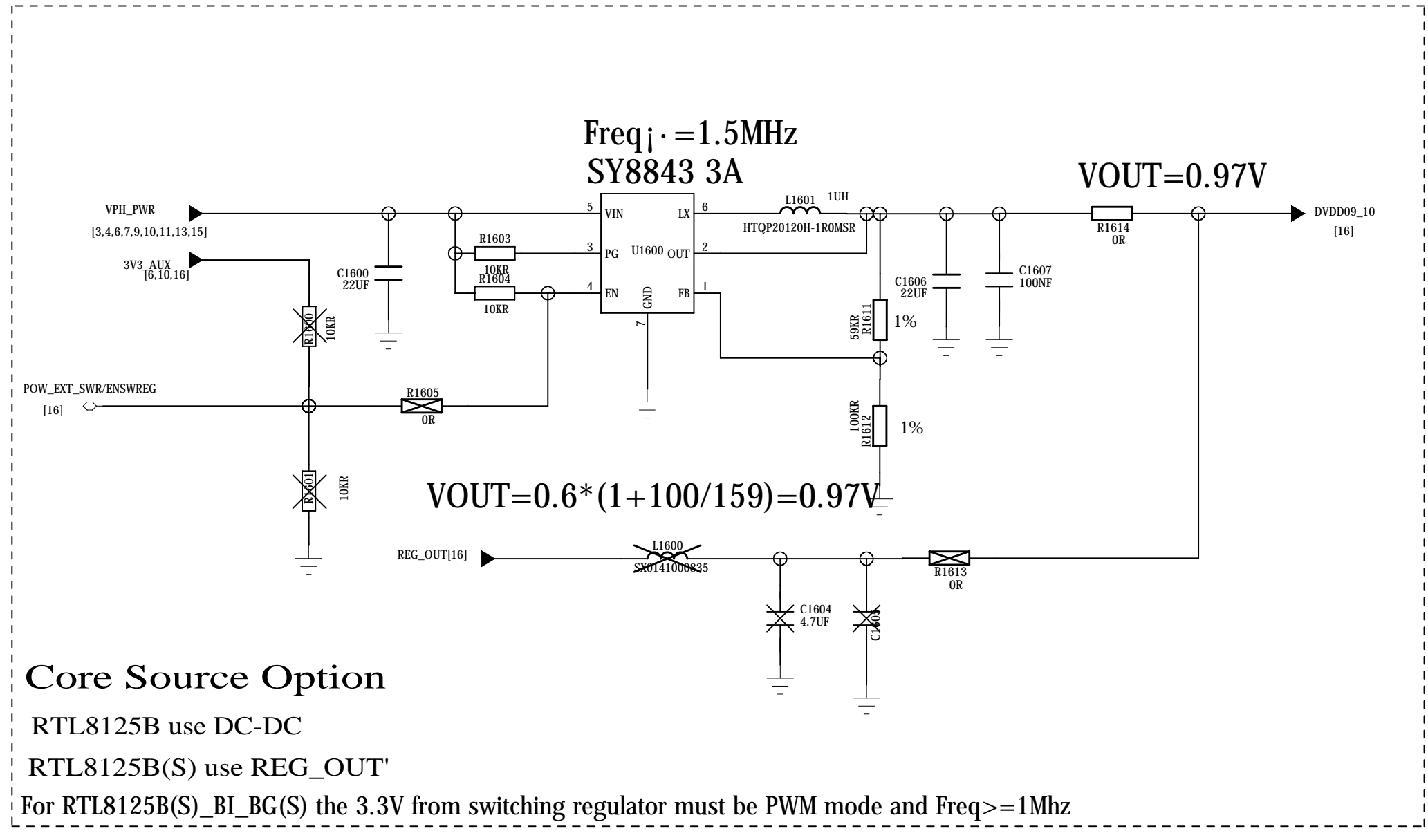
REVISION RECORD			
ITR	ECO NO.	APPROVED	DATE

PCIE SWITCH - POWER, GND, NC



COMPANY: SIMCOM			
TITLE: SIM8260 Series_V1.00_KDL			
DRAWN: yaling.wang	DATE: 2021-12-29	CODE:	SIZE: A1
CHECKED: XX	DATE: XX	DRAWING NO.:	REV:
QUALITY CONTROL: XX	DATE: XX	SCALE: <Scale>	
RELEASED: XX	DATE: XX	SHEET: 15 / 17	

REVISION RECORD			
TR	ECO NO.	APPROVED	DATE

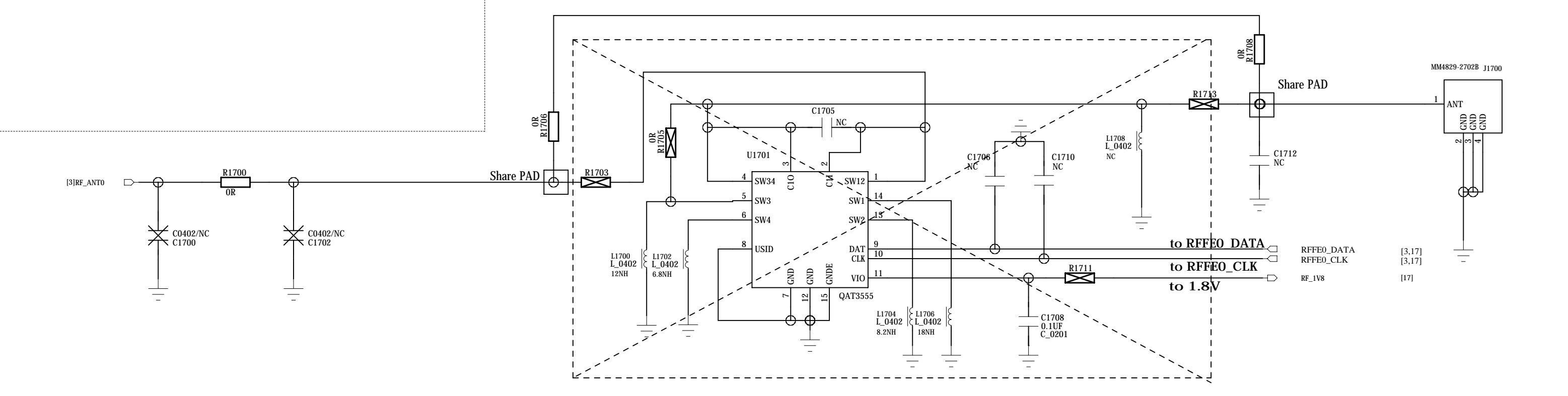


This connector contains RJ45 and transformer
 The Integrated Connector Module™ LCMC® OR Transformer must select from the AVL of RT8125B Series
 For detailed design considerations, please refer to SIM8200 Series Ethernet RTL8125B design guidelines

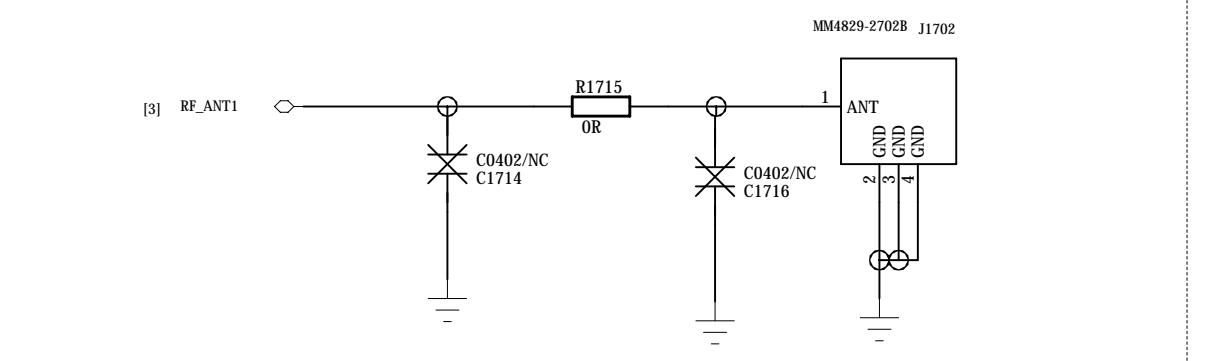
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TITLE:		SIM8260 Series_V1.00_KDL	
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REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE

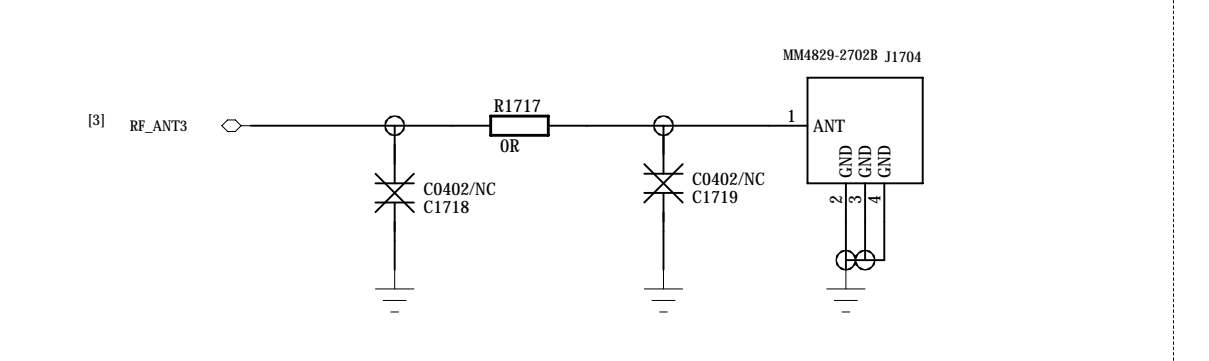
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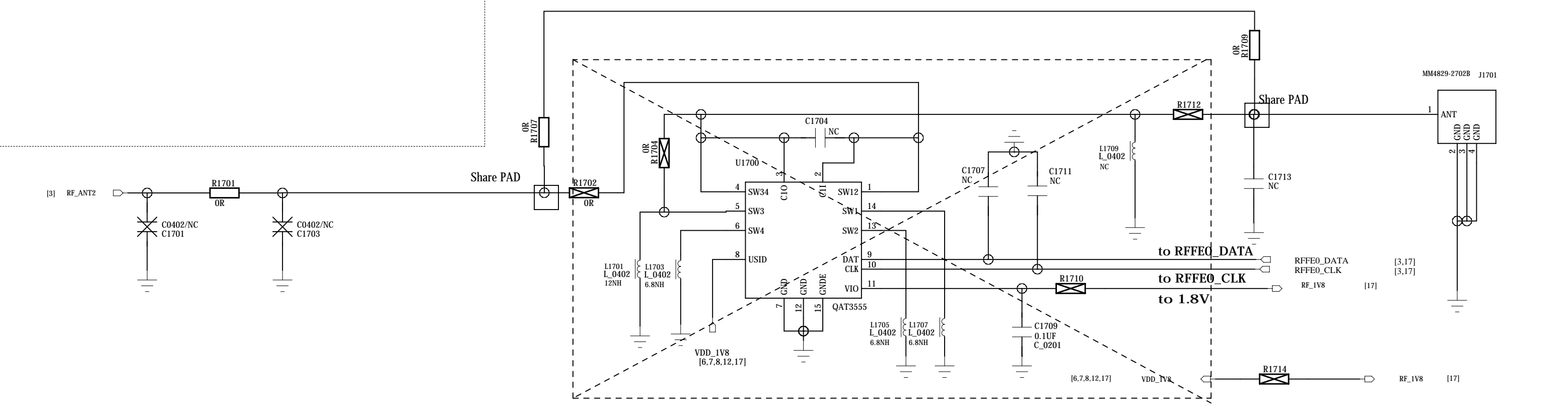
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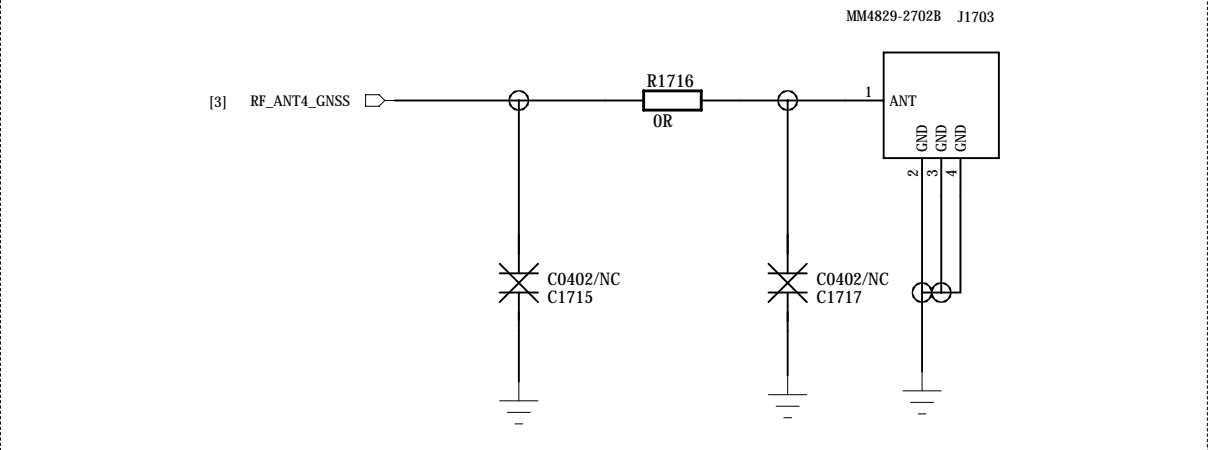
ANT3



ANT2



ANT4 GNSS



QAT3555 is optional, for most of customers, it can be bypassed.

DRAWN: yaling.wang		DATE: 2021-12-29		COMPANY: SIMCOM	
CHECKED: XX		DATE: XX		TITLE: SIM8260 Series_V1.00_KDL	
QUALITY CONTROL: XX		DATE: XX		CODE:	SIZE: A1
RELEASED: XX		DATE: XX		DRAWING NO:	REV:
SCALE: <Scale>				SHEET: 17 / 17	

bomlno	buildtype	maktx	NORMT	consum	loc
1	C0402C0G100J500NTB	CAP COG 10PF ±5% 50V CH0402 RO	EYANG	7	C0837 C0840 C0842 C0853 C0854 C0857 C0858
	CC0402JRNPO9BN100	CAP NPO 10PF ±5% 50V CH0402 RO	YAGEO		
	V100J0402C0G500NB*	CAP COG 10PF ±5% 50V CH0402 RO	微容		
	0402N100J500CT		华科		
2	C0402C0G180J500NTB	CAP COG 18PF ±5% 50V CH0402 RO	EYANG	1	C1305
	GRM1555C1H180JA01D		MURATA		
	V180J0402C0G500NB*	CAP COG 18PF ±5% 50V CH0402 RO	微容		
	0402N180J500CT		华科		
3	CM05CG270J50AH★ C1005C0G1H270JT★ CC0402JRNPO9BN270★ UMK105CG270JV-F★ GRM1555C1H270JA01D★ C0402C0G270J500NTB	CAP COG 27PF +/-5% 50V CH0402 RO	KYOCERA/TDK /YAGEO/TAIYO/MURATA/VI IYONG	2	C1608 C1614
4	C0402C0G330J500NTB	CAP COG 33PF ±5% 50V CH0402 RO	EYANG	26	C0214 C0215 C0405 C0838 C0841 C0844 C0855 C0856 C0859 C0860 C1503 C1504 C1512 C1519 C1527 C1529 C1534 C1536 C1537 C1538 C1540 C1541 C1542 C1543 C1544 C1545
	CC0402JRNPO9BN330	CAP NPO 33PF ±5% 50V CH0402 RO	YAGEO		
	GRM1555C1H330JA01D	CAP COG 33PF ±5% 50V CH0402 RO	MURATA		
	V330J0402C0G500NB*	CAP COG 33PF ±5% 50V CH0402 RO	微容		
	0402N330J500CT		华科		
5	C0402C0G101J500NTB	CAP COG 100PF ±5% 50V CH0402 RO	EYANG	1	C0520
	CC0402JRNPO9BN101	CAP NPO 100PF ±5% 50V CH0402 RO	YAGEO		
	GRM1555C1H101JA01D	CAP COG 100PF ±5% 50V CH0402 RO	MURATA		
	V101J0402C0G500NB*		微容		
	0402N101J500CT		华科		
6	GRM1555C1H221JA01D★ C1005C0G1H221JT★ C0402C0G221J500NTB	CAP COG 220PF +/-5% 50V CH0402 RO		2	C0300 C0301
7	C0402X7R391K500NTB	CAP X7R 390PF +/-10% 50V CH0402 RO	EYANG	1	C1630
8	GRM155R71E273KA88D	CAP X7R 27NF +/-10% 25V CH0402 RO	MURATA	1	C0307
	C0402X7R273K250NTB	CAP X7R 27NF +/-10% 25V CH0402 RO	EYANG		
9	C0402X7R104K160NTB	CAP X7R 100NF +/-10% 16V CH0402 RO	EYANG	74	C0205 C0212 C0213 C0309 C0318 C0403 C0404 C0420 C0425 C0426 C0501 C0506 C0517 C0523 C0524 C0529 C0633 C0635 C0701 C0702 C0800 C0803 C0810 C0816 C0820 C0911 C0912 C0914 C1002 C1010 C1013 C1108 C1109 C1200 C1300 C1301 C1302 C1303 C1304 C1306 C1307 C1308 C1309 C1310 C1311 C1312 C1313 C1314 C1315 C1502 C1506 C1520 C1524 C1526 C1528 C1530 C1531 C1532 C1535 C1539 C1547 C1601 C1607 C1609 C1610 C1611 C1612 C1615 C1618 C1620 C1628 C1629 C1632 C1637
	CC0402KRX7R7BB104		YAGEO		
	CL05B104K05NNNC		SAMSUNG		
	GRM155R71C104KA88D		MURATA		
	V104K0402X7R160NB*	CAP X7R 100NF ±10% 16V CH0402 RO	微容		
	0402B104K160CT		华科		
10	V104M0402X5R250NB*	CAP X5R 100NF ±20% 25V CH0402 RO	微容	2	C0513 C0514
	C0402X5R104M250NTB	CAP X5R 100NF 25V +/-20% CH0402 RO	EYANG		

11	C0402X5R105K160NTB	CAP X5R 1UF +/-10% 16V CH0402 RO	EYANG	39	C0200 C0201 C0202 C0203 C0204 C0210 C0211 C0216 C0302 C0303 C0314 C0315 C0316 C0317 C0319 C0320 C0505 C0516 C0528 C0632 C0634 C0703 C0913 C1008 C1100 C1101 C1501 C1505 C1510 C1513 C1515 C1517 C1518 C1521 C1522 C1523 C1525 C1603 C1624
	CL05A105K05NNNC		SAMSUNG		
	GRM155R61C105KA12D	MURATA			
	V105K0402X5R160NB*	CAP X5R 1UF ±10% 16V CH0402 RO	微容		
12	CC0603KRX5R8BB105	CAP X5R 1UF +/-10% 25V CH0603 RO	YAGEO	5	C0503 C0823 C0824 C0827 C0828
	CL10A105KA8NNNC		SAMSUNG		
	GRM188R61E105KA12D	0603陶瓷贴片电容 (X5R, 25V, 1UF ± 10%) RO	MURATA		
	TMK107BJ105KA-T	CAP X5R 1UF +/-10% 25V CH0603 RO	TAIYO		
13	GRM188R7YA105KA12D	CAP X7R 1.0UF +/-15% 35V CH0603 RO	MURATA	1	C0304
	GMK107BJ105KA-T	CAP X5R 1.0UF +/-15% 35V CH0603 RO	TAIYO		
14	CL05A225MQ5NSNC	CAP X5R 2.2UF ±20% 6.3V CH0402 RO	SAMSUNG	23	C0504 C0808 C0812 C0818 C0821 C0822 C0825 C0826 C0830 C0834 C0835 C0836 C0902 C0903 C0909 C0910 C1613 C1621 C1622 C1625 C1634 C1635 C1636
	GRM155R60J225ME15D	0402陶瓷贴片电容 (X5R, 6.3V, 2.2UF ±20%) RO	MURATA		
	JMK105 BJ225MV-F	CAP X5R 2.2UF +/-20% 6.3V CH0402 RO	TAIYO		
15	CC0603KRX5R6BB225★ GRM188R61A225KE34D★ LMK107BJ225KA-T★ C0603X5R225K100NTD	CAP X5R 2.2UF +/-10% 10V CH0603 RO	YAGEO/MURATA/TAIYO/VII YONG	4	C0500 C0804 C0805 C1000
16	GRM155R61A475MEAAD	CAP X5R 4.7UF +/-20% 10V CH0402 RO	MURATA	15	C0700 C0704 C0801 C0802 C0806 C0817 C0829 C0831 C0908 C1011 C1012 C1110 C1604 C1616 C1619
	LMK105BBJ475MVLF	CAP X5R 4.7UF ±20% 10V CH0402 RO	TAIYO		
	CL05A475MP5NRNC	CAP X5R 4.7UF +/-20% 10V CH0402 RO	SAMSUNG		
17	C0603X5R475M350NTK	CAP X5R 4.7UF 20% 35V CH0603 1MMH RO	EYANG	2	C0306 C0308
	GRM188R6YA475ME15D	CAP X5R 4.7UF 20% 35V CHIP0603 RO	EYANG		
18	CL05A106MQ5NUNC	CAP, 0402, 10UF, ±20%, 6.3V, X5R RO	SAMSUNG	16	C0305 C0310 C0311 C0312 C0313 C0402 C1014 C1500 C1507 C1508 C1509 C1511 C1514 C1516 C1617 C1638
	GRM155R60J106ME44D	CAP X5R 10UF +/-20% 6.3V CH0402 RO	MURATA		
	JMK105CBJ106MV-F	CAP, 0402, 10UF, ±20%, 6.3V, X5R RO	TAIYO		
19	CL10A106MA8NRNC	CAP 0603 10UF 25V ±20% X5R 1608 RO	SAMSUNG	3	C0421 C0424 C0522
	GRM188R61E106MA73D	CAP, 0603, 10UF, ±20 %, X5R, 25VDC RO	MURATA		
20	GRM21BR61E106MA73L	CAP X5R 10UF +/-20% 25V CH0805*1.25 RO	MURATA	5	C0507 C0508 C0509 C0510 C0511
21	CL10A226MP8NUNE	CAP X5R 22UF ±20% 10V CH0603*1.05H RO	SAMSUNG	8	C0515 C0521 C0526 C1533 C1546 C1600 C1602 C1606
	GRM188R61A226ME15	CAP X5R 22UF ±20% 10V CH0603*1.0H RO	MURATA		
	LDK107BBT226MA-T	CAP X5R 22UF ±20% 10V CH0603*1.00H RO	TAIYO		

		CAP X5R 22UF +/-20% 10V CH0603 RO			
22	TCTAL1A107M8R-V2	CAP STA 100UF +/-20% 10V 321612 RO	ROHM	3	C0208 C0209 C0406
	TLJA107M010R1400	CAP STA 100UF +/-20% 10V 321618 RO	AVX		
23	TLJB227M006R0500	贴片钽电容(220UF±20%, 6. 3V, 3528-21) RO	AVX	2	C0206 C0207
	T520B227M006ATE045	CAP, POLYMER, 220uF, ±20%, 6. 3V, 3528, RO	KEMET		
24	PA1206FRF470R002L/RLM12FTCMR002/LR061WF200NT5E	RES 0.002 OHM 1% 1W 1206 RO	YAGEO/大毅/厚声	1	R0425
25	RC0402JR-070RLMCR01MZPJ000RC1005J000CS0402WGJ0000TCERM04JTNOR0402JXX0000P16LTAWR04X000 PTL	RES MF OR +/-5% 1/16W CH 0402 RO	YAGEO/大毅/WALSIN/厚声	117	R0300 R0303 R0304 R0305 R0306 R0307 R0308 R0330 R0420 R0421 R0422 R0432 R0433 R0518 R0519 R0610 R0611 R0619 R0629 R0631 R0632 R0700 R0702 R0704 R0705 R0706 R0707 R0708 R0709 R0710 R0711 R0712 R0800 R0803 R0806 R0808 R0809 R0810 R0811 R0814 R0815 R0816 R0823 R0832 R0834 R0844 R0845 R0846 R0847 R0900 R0901 R0905 R0906 R0908 R0921 R0922 R0923 R1000 R1001 R1002 R1003 R1004 R1005 R1006 R1008 R1010 R1110 R1111 R1112 R1113 R1213 R1214 R1215 R1216 R1217 R1218 R1219 R1220 R1221 R1300 R1301 R1310 R1311 R1317 R1321 R1333 R1334 R1338 R1339 R1340 R1341 R1342 R1343 R1344 R1345 R1346 R1347 R1348 R1349 R1350 R1351 R1352 R1505 R1602 R1614 R1615 R1618 R1625 R1700 R1701 R1706 R1707 R1708 R1709 R1715 R1716 R1717
26	RC0805JR-070RL0805W8J0000T5ERM10JTNOR0805JXX0000P08LTBWR08X000	RES MF OR +/-5% 1/8W CH 0805 RO	YAGEO/大毅/WALSIN/厚声	1	R0302
27	RC0402FR-0710RL★0402WGF100JTCE★R0402RXX100XF16LTA	RES MF 10R +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R0630
28	RM04JTN220RC0402JR-0722RL0402WGJ0220TCER0402RXX220XJ16LTAWR04X220JTL	RES MF 22R +/-5% 1/16W CH 0402 RO	YAGEO/大毅/WALSIN/厚声	6	R1102 R1103 R1104 R1105 R1106 R1107
29	RC0402FR-07100RL0402WGF1000TCERM04FTN1000R0402RXX101XF16LTAWR04X1000FTL	RES MF 100R +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R1337
30	RC0402FR-07330RL0402WGF3300TCERM04FTN3300WR04X3300FTL	RES MF 330R +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	16	R1305 R1308 R1313 R1356 R1358 R1362 R1364 R1368 R1370 R1372 R1374 R1376 R1378 R1382 R1388 R1396
31	RC0402FR-07510RL0402WGF5100TCERM04FTN5100WR04X5100FTL	RES MF 510R +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	4	R1621 R1622 R1623 R1624
32	RC0402FR-071KL0402WGF1001TCERM04FTN101R0402RXX102XF16LTAWR04X1001FTL	RES MF 1KR +/-1% 1/16W CH 0402 RO	YAGEO/大毅/WALSIN/厚声	8	R0402 R0403 R0602 R0606 R0607 R0802 R0200 R1619
33	RC0402FR-071K43L/RM04FTN1431/WR04X1431FTL/0402WGF1431TCE	RES MF 1.43KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/华科/厚声	1	R1506

34	MCR01MZSJ222RC0402JR-072K2LRC1005J222CS0402WGF0222TCERM04JTN222R0402RXX222XJ16LTAWR04X222JTL	RES MF 2.2KR +/-5% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	4	R0609 R0833 R1116 R1117
35	RC0402FR-072K49L/RM04FTN2491/WRO4X2491FTL/0402WGF2491TCE	RES MF 2.49K +/-1% 1/16W CH0402 RO	YAGEO/TA-I/UNIOHM/	1	R1617
36	RC0402JR-073K3L0402WGFJ0332TCERM04JTN332WRO4X332 JTL	RES MF 3.3K +/-5% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R0904
37	MCR01-MZS-J-472RC0402JR-074K7L0402WGFJ0472TCERM04JTN472R0402RXX472XJ16LTAWR04X472JTL	RES MF 4.7KR +/-5% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	6	R0703 R0909 R1606 R1607 R1609 R1610
38	RC0402JR-075K1L0402WGFJ0512TCERM04JTN512R0402RXX512XJ16LTAWR04X512JTL	RES MF 5.1KR +/-5% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	21	R1302 R1303 R1306 R1309 R1315 R1316 R1318 R1320 R1330 R1331 R1332 R1359 R1365 R1379 R1383 R1385 R1389 R1391 R1393 R1397 R1399
39	MCR01-MZP-F-1002RC0402FR-0710KL0402WGF1002TCERM04FTN1002R0402RXX103XF16LTAWR04X1002FTL	RES MF 10KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R0504
40	RM04JTN103RC0402JR-0710KLR01005J103CS0402WGFJ0103TCER0402RXX103XJ16LTAWR04X103 JTL	RES MF 10KR +/-5% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	18	R0428 R0500 R0511 R0513 R0555 R0601 R0604 R0605 R0911 R0914 R0915 R0918 R1353 R1354 R1500 R1501 R1603 R1604
41	RC0402FR-0726K1L0402WGF2612TCE RM04FTN2612	RES MF 30K +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R0510
42	MCR01MZPJ563/RC0402JR-0756K/WRO4X563JTL/R0402RXX563XJ16LTA	0402贴片电阻(56kΩ±5%1/16w) RO	ROHM/YAGEO/WASIN/E	1	R0301
43	RC0402FR-0759KL★WR04X5902FTL★R0402RXX593XF16LTA★WR04X5902FTL★RM04FTN5902★0402WGF5902TCE	0402贴片电阻(59K Ω ±1% 1/16W) RO	YAGEO/WASIN/EYANG	1	R1611
44	RC0402FR-0775KL0402WGF7502TCERM04FTN7502WRO4X7502FTL	RES MF 75KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	3	R0502 R0516
45	RC0402FR-07100KLRM04FTN10030402WGF1003TCER0402RXX104XF16LTAWR04X1003FTL	RES MF 100KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	4	R0501 R1503 R1612 R0437
46	MCR01-MZS-J-104★RC0402JR-07100KL★RC1005J104CS★0402WGFJ0104TCE★RM04JTN104★R0402RXX104XJ16LTA	RES MF 100KR +/-5% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	13	R0424 R0426 R0427 R0429 R0430 R0431 R0438 R0507 R0508 R0805 R1012 R1502 R1612
47	RC0402FR-07121KL0402WGF1213TCERM04FTN1213R0402RXX1213F16LTAWR04X1213FTL	RES MF 121KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R0503
48	RC0402FR-07150KL0402WGF1503TCERM04FTN1503R0402RXX154XF16LTAWR04X1503FTL	RES MF 150KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R1504
49	RC0402FR-07160KL	RES MF 160KR +/-1% 1/16W CH0402 RO	YAGEO	1	R0509

50	RC0402JR-07200KL0402WGJ0204TCERMO4JTN204R0402RXX204XJ16LTAWRO4X204 JTL	RES_MF_200KR +/-5%_1/16W_CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R1328
51	RC0402FR-07300KL★WR04X3003FTL★RM04FTN3003★0402WGF3003TCE	RES, 0402, 300K Ω, ±1%, 1/16W, 50V RO	YAGEO	2	R1018 R1314
52	0402WGF3303TCERC0402FR-07330KLRMO4FTN3303RO402RXX334XF16LTAWRO4X3303FTL	RES MF 330KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R0515
53	RC0402JR-07470KLO402WGJ0474TCERMO4JTN474RMO4JTN474R0402RXX474XJ16LTAWRO4X474 JTL	RES MF 470KR +/-5% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	3	R1016 R1108 R1109
54	0402WGF7503TCERC0402FR-07750KLRMO4FTN7503RO402RXX754XF16LTAWRO4X7503FTL	RES MF 750KR +/-1% 1/16W CH0402 RO	YAGEO/大毅/WALSIN/厚声	1	R1017
55	RC0402FR-07910KL*RO402RXX914XJ16LTA	RES MF 910KR +/-1% 1/16W CH0402 RO	YAGEO	1	R0436
56	SDNT1005X104F4250FTF	RES NTC 100K +/-1% CH0402 RO	sunlord	2	RT0400 RT0300
	NCP15WF104F03RC	0402贴片热敏电阻(100k Ω ±1%/25℃, 100mW/25℃), RO	MURATA		
57	MHCHL201610A-R47M-Q8	IND 0.47UH 20% 3.9A 0.033 Ω 2016 RO	CHILISIN	1	L1000
	WIP201610S-R47MLA7	IND 0.47UH 20% 6.1A CH2016*1.0 RO	INPAQ		
	WPN201610UFR47MT	IND PWR 0.47UH 20% 5.8A CH2016*1.0 RO	SUNLORD		
	MPIM201610HR47M-LF	IND:0.47UH±20% 4.0A;32M Ω; 2016;1.0MM RO	MICROGATE		
	CIGT201610LHR47MNE	IND POWER 0.47UH 3.6A DCR=0.033 2016 RO	SAMSUNG		
58	HTQP20120H-1ROMSR	IND PWR 1UH +/-20% 3.8A CH2012*0.8 RO	CYNTEC	2	L1500 L1601
	TFM201208ALC-1ROMTAA	IND PWR 1.0UH ±20% 3.1A CH2012*0.8 RO	TDK		
59	XAL1010-102MED	IND COMPOSITE 1UH +/-20% 11.8*10.5MM RO	COILCRAFT	1	L0500
60	TFM252010ALM-1ROMTAA	IND DCR 45MR 1.0UH +/-20% 3.3A 252010 RO	TDK	1	L0300
61	TFM201610AHB-2R2MTAA	IND 2.2UH 20% 2.4A CH2016*1.0 RO	TDK	1	L0501
	MPIA201610E2R2M23-LF	IND 2.2UH±20% 2.5A 130M Ω 2.0*1.6*1.0 RO	MICROGATE		
62	DFE252012F-4R7M=P2	INDUCTOR 4.7UH 160M Ω 2.4A 252012 RO	TOKO	1	L0402
63	LTVS16H5.0ET5G	ESD;TVS DIODE;DFN1610;5V;800PF;1800W RO	LRC	2	D0409 D0220
	WS05DP	TVS;UNIDIR;DFN1610;5V;700PF;2000W RO	长园维安		
	ESD56201D04	TVS;UNIDIR;DFN1610;4.85V;1100PF;1800W RO	WILL		
	WS4.5DPV	ESD TVS DFN1610-2L;4.7V;800PF;2660W RO	CYWAYON		
	PTVSHC2EN4V5B	TVS 4.5V 1200W SURGE DFN1610 RO	PRISEMI		
64	ESD5302N-3/TR	TVS 5V 0.5PF 双路 DFN1006-3L RO	WILL	4	TVS1600 TVS1601 TVS1602 TVS1603
65	ESD8104MUTAG	TVS 0.37PF VBR=5V VRWM=3.3V RO	ONSEMI	2	U0401 U0406

66	WS07DP	UNI-TVS 7.0V 720PF DFN1610-2L RO	WAYON	2	D0700 D0414
	PTVSHC2EN7VU	TVS 7.0V 700PF DFN1610 RO	PRISEMI		
	BLE7V065B6U		BILLSEMI		
	"LTVS 16H7.0T5G"		LRC		
67	PTVSHC1SF24VBH	TVS DIODE SOD123 24V 350PF PPP5500W RO	上海芯导电子	1	D0402 TVS0500
	WS24P4S1-BH	BIDI;TVSDIODESOD123;24V;367PF;5500WRO	WAYON		
68	BLM15PD121SN1*	BEAD, 0402, 120 Ω, 1300mA, DCR-0.09 Ω, RO	murata	2	FB1600 FB1601
69	BLM15HB121SN1D	BEAD 120R/100MHZ 0.3A DRC-0.7 Ω CH0402 RO	murata	4	L0800 L0801 L0802 L0803
70	ESD9X5VU-2/TR	压敏二极管(1006, 0.5P) RO	WILL	46	D0400 D0401 D0412 D0413 D0701 D0702 D1000 D1001 D1002 D1003 D1004 D1005 D1006 D1102 D1103 D1104 D1105 D1106 D1107 D1108 D1109 D0611 D0615 D0616 D0610 D0200 D0201 D0202 D0203 D0204 D0206 D0208 D0209 D0210 D0211 D0212 D0213 D0214 D0215 D0216 D0218 D0219 D0221 D0411 D0224 D0226
	ESD9L5.0ST5G		ON		
	ESD9D5U-2/TR		TVS 5V 0.5PF SOD-923 RO		
71	ESD9B5.0ST5G	TVS 5V 15PF SOD-923 RO	ON	21	D1100 D1101 D0403 D0404 D0405 D0406 D0407 D0408 D0604 D0605 D0607 D0612 D0613 D0614 D0800 D0801 D0802 D0805 D0806 D0807 D0808
72	HQ19-2151SURC	LED, TOP, 红, 0603, 0.4H RO	HQG	1	D0601
	S192VC-1BG	LED, TOP, 红, 0603, 0.6H, RO	LUCKYLIGHT		
73	LTST-C193KSKT-5A	LEDTOPVIEW黄0603 RO	LITEON	3	D0603 D0600 D0602
74	LTST-C193KSKT-5A	LEDTOPVIEW黄0603 RO	LITEON	1	D1600
75	LRB521S-40T1G	DIODE, SOD-523, SCHOTTKY RO	LRC	2	D0301 D0430 D0703
	PSBD521S-40	二极管DIODE, SCHOTTKY, 40VRM RO	PRISEMI		
	RB520S-30	肖特基二级管 RO	JCET		
76	WNM2046-3/TR	MOSFET NCH 20V 0.7A 0.3R@2.5V DFN1006 RO	WILLSEMI	8	Q0601 Q0602 Q0603 Q0700 Q1300 Q1301 Q1302
	WM02N08F	NMOS 10V 0.75A 0.35R@1.8V DFN1006-3L RO	维安		
77	PM-7250B-0-FOWPSP110-XX-00-0	IC PMU PM7250B FOWPSP110 3.51*4.4 RO	QUALCOMM	1	U0300
78	RTL8125B-CG	10/100/1000M/2.5G ETHERNET CONTROLLER RO	REALTEK	1	U1601
79	ALC5616-CGT	IC, ALC5616, AUDIO CODEC, 芯片, RO	realtek	1	U0800
80	PI7C9X2G304EVAZXAE	PCIE2.0 SWITCH 3.3V AQFN[136] RO	DIODES	1	U1303
81	PI3DBS12212AXUAE	SWITCH 3.3V 12GBPS 2:1 MUX/DEMUX RO	PERICOM	1	U0403
82	SGM7227YUWQ10G/TR	USB2.0(480MBPS) DPDT ANALOG RO	圣邦微电子	1	U0405
83	CP2105-F01-GMR	CP2105-F01-GM RO	SILICONLAB	1	U0700
84	DLW21SN900SQ2L	CHIP COMMON MODE CHOKE COIL CH0805 RO		3	U0404 L0700 L0400

85	MMA8452Q	3-AXIS, DIGITAL ACCELEROMETER RO	NXP	1	U1100
86	SY6884PYC	IC OVP 5A 30mΩ RO	Silergy		U0501
87	SY8105IADC	DCDC;Vin_18V;I_5A;adj;SOT23-6;RO	Silergy		U0502
88	SGM6014-ADJYTD10G/TR	DC/DC 2.5V-5.5V ADJ 2A DFN10 RO	SGMC	1	U0503
89	SDINBDG4_8G	MEMO 8GB EMMC 11.5X13X0.8MM 153FBGA RO		1	U0902
90	CP3609ST	DC/DC BUCK 2.5-5.5V ADJ/2A SOT23-5 RO	启攀微	1	U0900
	SY8089AAAC	DC/DC BUCK 2.7-5.5V ADJ/2A SOT23-5 RO			
91	SY8843QWC	DC/DC 2.7V-5.5V 3.8V 3A QFN1.5*1.5-7 RO	SILERGY	1	U1500 U1600
92	SGM6033-ADJXTDI6G/TR	DCDC VIN 2.5-5.5V ADJ 1A TDFN RO	圣邦微	1	U1000
93	SGM2037-ADJXUDX6G/TR	LDO VIN 0.8-5.5V ADJ 500MA UTDFN RO	圣邦微	1	U0500
94	SGM2036-1.8YN5G/TR	LDO 1.8V 0.5A UTDFN, 1.2*1.2*0.6mm RO	SGMICRO	1	U0901
95	SGM2036-1.8YUDH4G/TR	IC, LDO 1.8V, 300mA, UTDFN-1.0×1.0-4L, RO	SGMICRO	1	U0801
96	SGM2036-3.0YUDH4G/TR	LDO, SGM2036-3.0, 3.0V, 300mA, UTDFN1×1, RO	SGMICRO	1	U0802
97	TPS728180285YZUR	LDO 1.8V/2.8V 200MA WCSP-5 RO	TI	1	U1001
98	SGM6605-ADJYN6G/TR	DC/DC, STEP UP SOT-23-6, 1100MA RO	SGMICRO	1	U0402
99	TXS0104EYZT	IC LEVEL SHIFTER 4-BIT 1.87*1.37MM RO	TI	1	U1302
100	PCA9306DCUR	IC 2BIT I2C LEVEL SHIFT VSSOP-8 RO	TEAXS	1	U1300
101	24LC04B-I/SN	IC EEPROM 4K 2.5V-5.5V I2C SERIAL RO	MICROCHIP	1	U1301
102	7V25000011	CRYSTAL, 25MHZ, ±30PPM 18PF, 3.2*2.5*0.8 RO	TXC	1	Y1600
103	DCJ-030422065	DC JACK 3PIN 35V 7A DIP RO	鑫相连	1	J0500
104	R2-H43-00103	USB卡座 C F TYPE 双排SMT 8.9*8.1*2.56 RO	金拓宇	1	J0400
105	ZCMUF004A	USBC 5PIN 2.5MMH SMT+DIP RO	挚萃	2	J0402 J0700
	USBF005G5K22-00R		长盈		
	USBF005G5K22-02R	USBC 5PIN 2.5MMH SMT+DIP RH			
	236F205-0N001D-R	USBC 5PIN 2.5MMH SMT+DIP RO	挚萃		
106	0139-320-442	CONN 4PIN PORTS DIP 11.65MMH RO	E-LINE	1	J0801
107	CHK-JACK0130-A	?3.5, 6PIN耳机插座SMT(斜口), 12.0*8.4*4.55 RO	华旺	1	J0800
108	FH26W-15S-0.3SHW(60)	ZIF 15PIN 0.3PITCH 1MMH RO	HRS	1	J0601
109	MR04A-02203	TFC PUSH 1.95MMH RO	ATOM	1	J1000
110	5039600696	SIMC MICRO PUSH 1.42MMH RO	MOLEX	2	J1100 J1101
111	RJ45-114B4DZ-G020	RJ45 5G BASE WITH EMI LEDS RO	正谷	1	J1600
112	20449-001E-03	RFC 2.0*2.0*0.6MM RO	I-PEX	7	J1200 J1201 J1700 J1701 J1702 J1703 J1704
113	PH2543-10-115D30T	PIN HEADER, 2.54PITCH, 3*10PIN RO	昌隆	1	J0900
114	1451620-09C-R	PIN HEADER 20PIN 2.54PIT 11.6MMH RO	挚萃	2	J0200 J0201

115	DLM-2.54开) OPEN MINI JUMPER)	跳线帽, 2.54 PITCH RO	昌隆	10	J0900-1 J0900-2 J0900-3 J0900-4 J0900-5 J0900-6 J0900-7 J0900-8 J0900-9 J0900-10
116	WT-1203	轻触开关 RO	正谷	2	S0600 S0601
117	MOD_SIM8260-369		SIMCOM	1	M0200
118	MOD_W82_MYSELF		SIMCOM	1	M1200