



# SIM82xxx\_SIM83xxx M2 Series Reference Design

5G Module

## **SIMCom Wireless Solutions Limited**

SIMCom Headquarters Building, Building 3, No. 289 Linhong  
Road, Changning District, Shanghai P.R. China

Tel: 86-21-31575100

[support@simcom.com](mailto:support@simcom.com)

[www.simcom.com](http://www.simcom.com)

<b>Document Title:</b>	SIM82xx_SIM83xx M2 Series Reference Design
<b>Version:</b>	V1.01
<b>Date:</b>	2023-01-10
<b>Status:</b>	Release

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### **SIMCom Wireless Solutions Limited**

SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R. China

Tel: +86 21 31575100

Email: [simcom@simcom.com](mailto:simcom@simcom.com)

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## Version History

Date	Version	Description of change	Author
2022-05-31	V1.00	Initial version	Yao.chen
2023-01-10	V1.01	Add QTM547/QTM545 mmW	Yao.chen

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COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
CODE: SIM8XXX M2	SIZE: C	DRAWING NO: 1	REV: V1.01
SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>

6

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1

# Change List

Date	Version	Description of change	Author
2022-05-31	V1.00	Initial Version	yao.chen
2023-01-10	V1.01	Add QTM547/QTM545 mmW	yao.chen

COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
CODE: SIM8XXX M2	SIZE: C	DRAWING NO: 2	REV: V1.01
SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>

# Module M.2 Interface PIN Difference

M2 pins define of the different M2 module have difference, the SDX62/SDX65/SDX55/QCX315 platfom M2 module pins define difference as following, please design according to the pins function of actual M2 module

M2 Module M2 Pin Number	SIM8260C-M2	SIM8262A-M2	SIM8262E-M2	SIM8260G-M2 (Standard) SIM8280G-M2 (Standard)	SIM8380G-M2(mmW Version)	X55/315 M2(Standard)	X55 M2(mmW Version)
48	(U)SIM2_PWR	(U)SIM2_PWR	(U)SIM2_PWR	VDD_1V9	VDD_1V9	(U)SIM2_PWR	VQTM_1P9
46	(U)SIM2_RESET	(U)SIM2_RESET	(U)SIM2_RESET	NC	QTM2_PON	(U)SIM2_RESET	QTM3_PON
44	(U)SIM2_CLK	(U)SIM2_CLK	(U)SIM2_CLK	NC	QTM3_PON	(U)SIM2_CLK	QTM2_PON
42	(U)SIM2_DATA	(U)SIM2_DATA	(U)SIM2_DATA	NC	QTM1_PON	(U)SIM2_DATA	QTM1_PON
40	(U)SIM2_DET	(U)SIM2_DET	(U)SIM2_DET	NC	QTM0_PON	(U)SIM2_DET	QTM0_PON
28	I2S_WA	I2S_WA	I2S_WA	I2S_WA	I2S_WA	I2S_WA	I2S_WA
24	I2S_TX	I2S_TX	I2S_TX	I2S_TX	I2S_TX	I2S_TX	I2S_TX
22	I2S_RX	I2S_RX	I2S_RX	I2S_RX	I2S_RX	I2S_RX	I2S_RX
61	ANTCTL1	ANTCTL1	ANTCTL1	ANTCTL1	QTM_THERM_DET	ANTCTL1	ANTCTL1
63	N79_TX_EN_TO_WLAN	HST_WL_TX_EN	N79_TX_EN_TO_WLAN	HST_WL_TX_EN	HST_WL_TX_EN	HST_LAA_TX_EN	HST_LAA_TX_EN
65	VIO_1V8	VIO_1V8	VIO_1V8	VIO_1V8	VIO_1V8	WL_TX_EN	WL_TX_EN

COMPANY:

SIMCom

TITLE:

SIM82XX/SIM83XX M2 Series Module

CODE:

SIM8XXX M2

SIZE:

C

DRAWING NO:

3

REV:

V1.01

SCALE: -

DRAWN:

yao.chen

DATED:

<QC Date>

CHECKED:

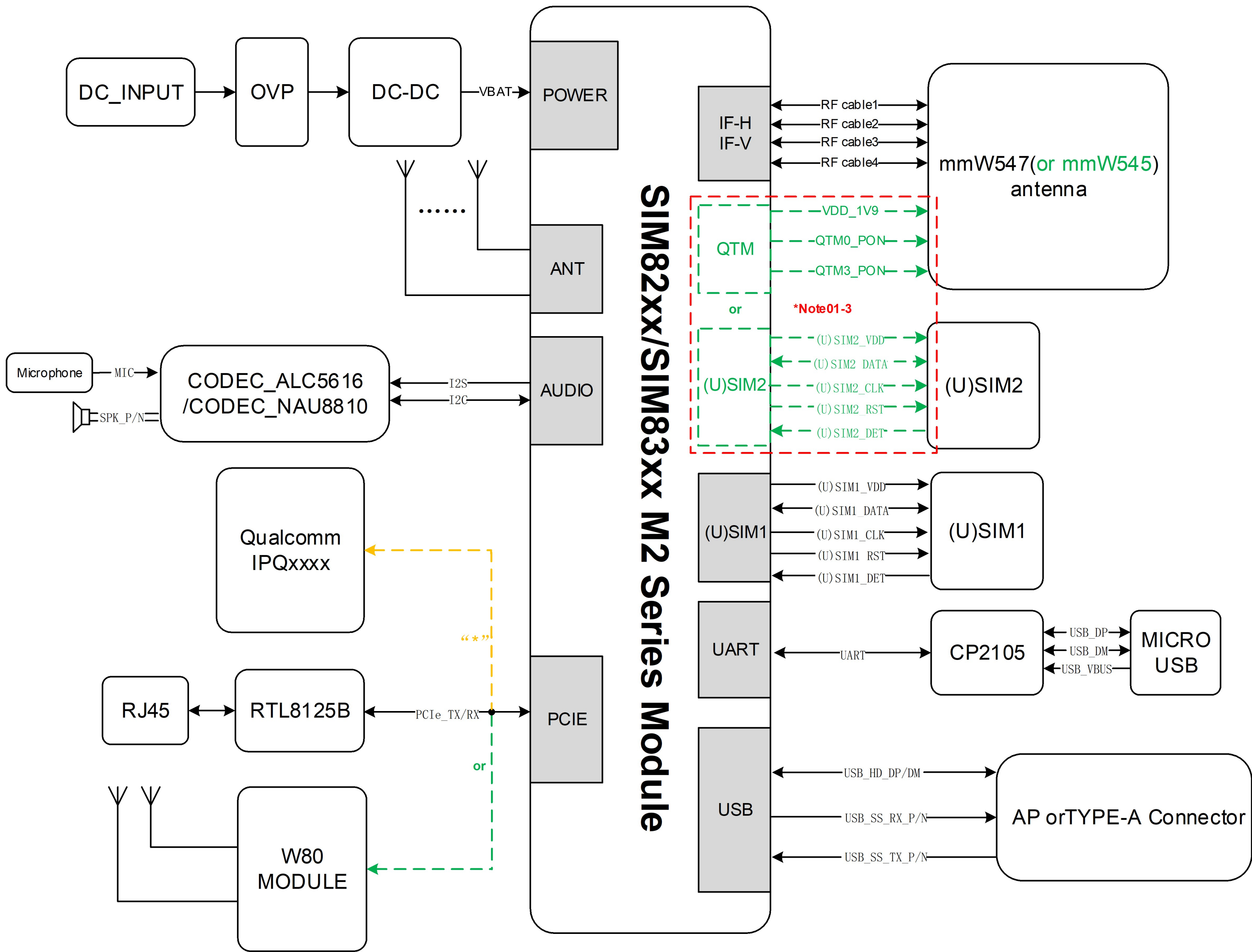
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Diagram

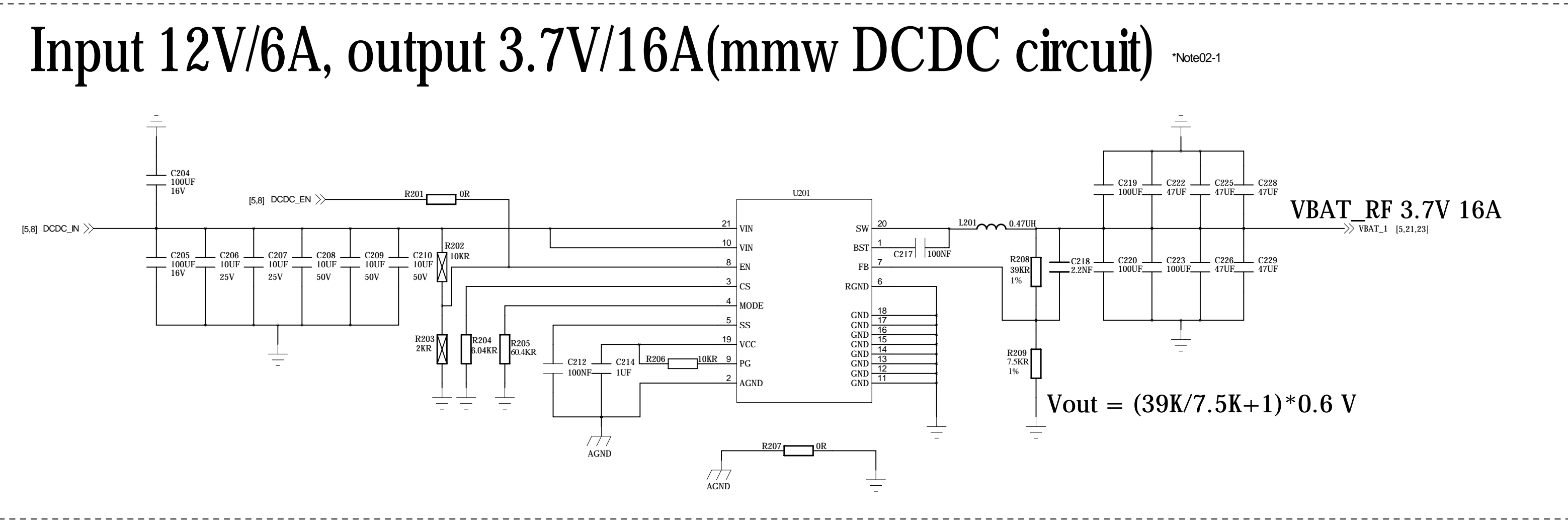
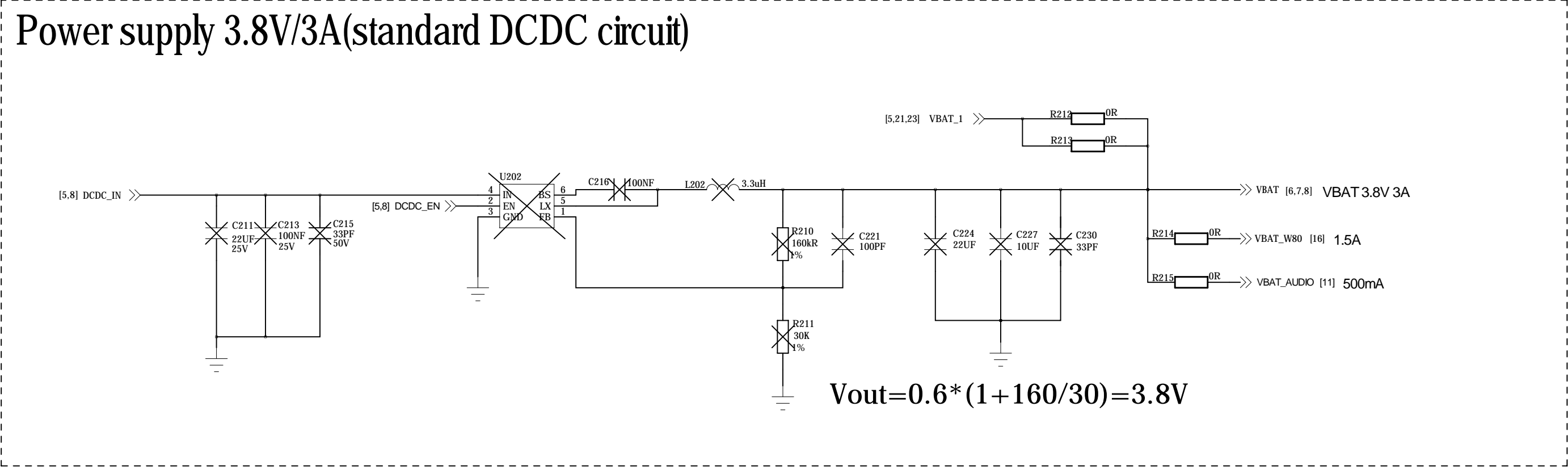
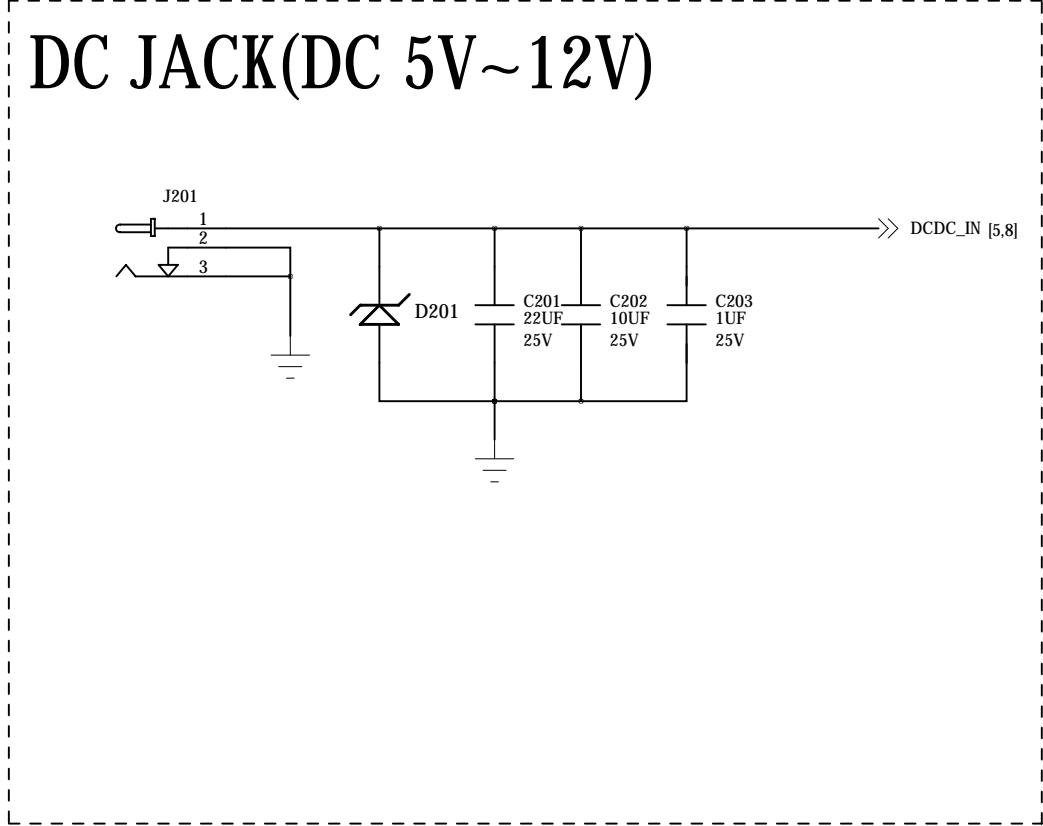


\*Note01-1: the module can't support WIFI, Ethernet and IPQxxxx function at the same time, only one function be supported  
\*Note01-2: part of Qualcomm IPQxxxx series application, please contact SIMCOM support teams  
\*Note01-3: about M2 interface mmW QTM control signal and (U)SIM2 signal pin definition difference, please refer to M2 pin definition difference table in X62/X65/X55/315\_M2\_PIN\_DIFFER page.  
\*Note01-4 : only X62/X65 platform module(such as SIM8380G-M2 module) support mmW(mmW547 or mmW545) function, SDX55 and QCX315 platform module not support mmW547 or mmW545 function.

COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
CODE:	SIZE:	DRAWING NO:	REV:
SIM8XXX M2	C	4	V1.01
SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>

Power\_1



\*Note02-1:if need mmW function, the mmw power supply need to 12V/6A adapter input

standard version power supply	R212, R213 and mmw DCDC circuit need to NC
mmw version power supply	R212, R213 need to place 0805 0R resistors, U202, C211 ,C213 ,C215, C216, C221, C224, C227, C230, R210, R211 and L202 need to NC

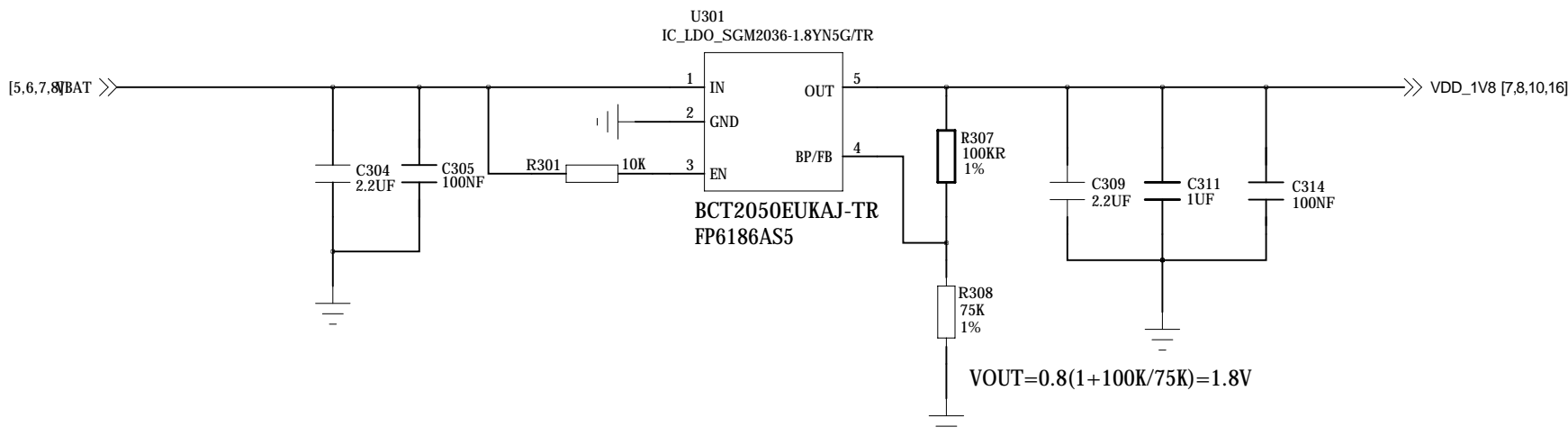
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SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
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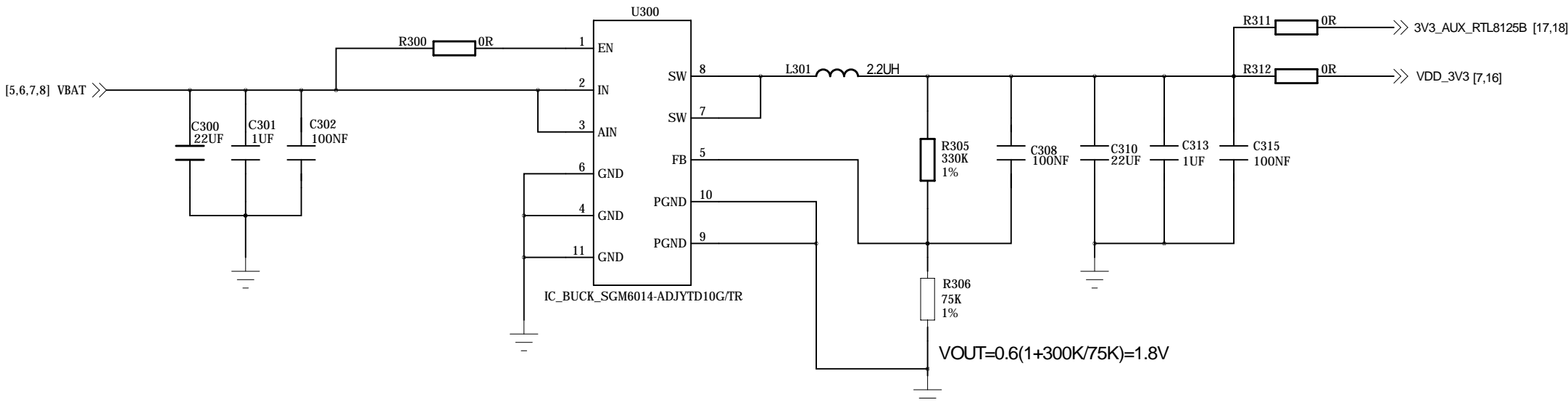


Power\_2

LDO 1.8V

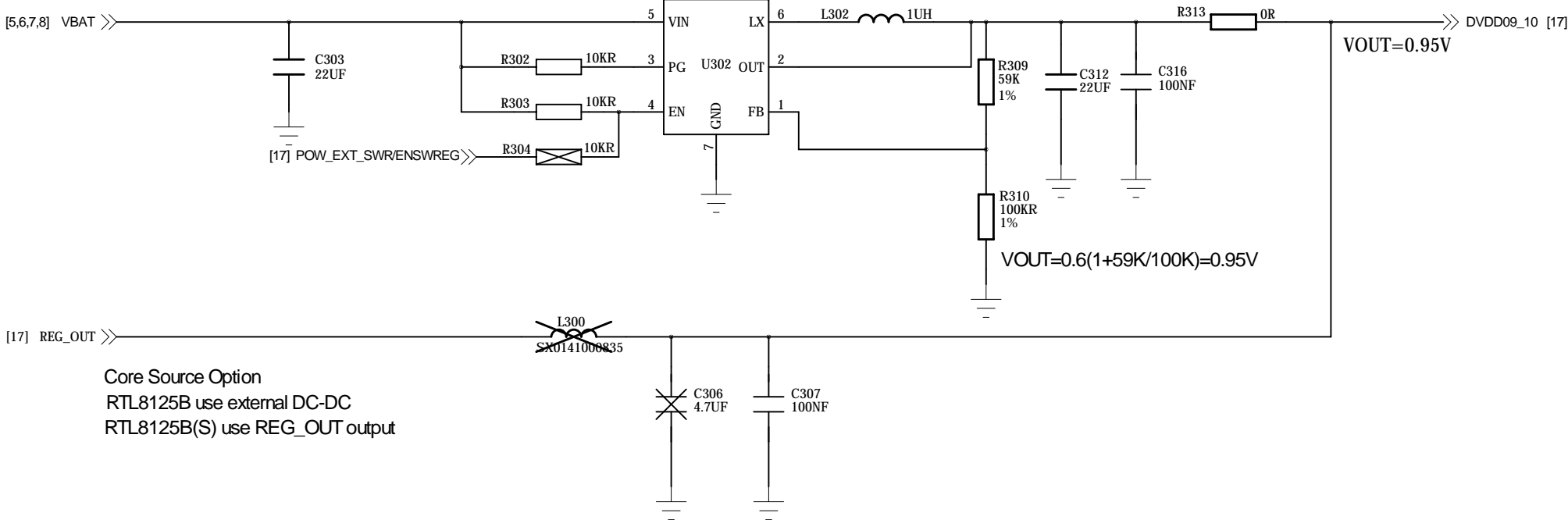


DC-DC 3.3V 2A



For RTL8125B PWR

SY8843 3A



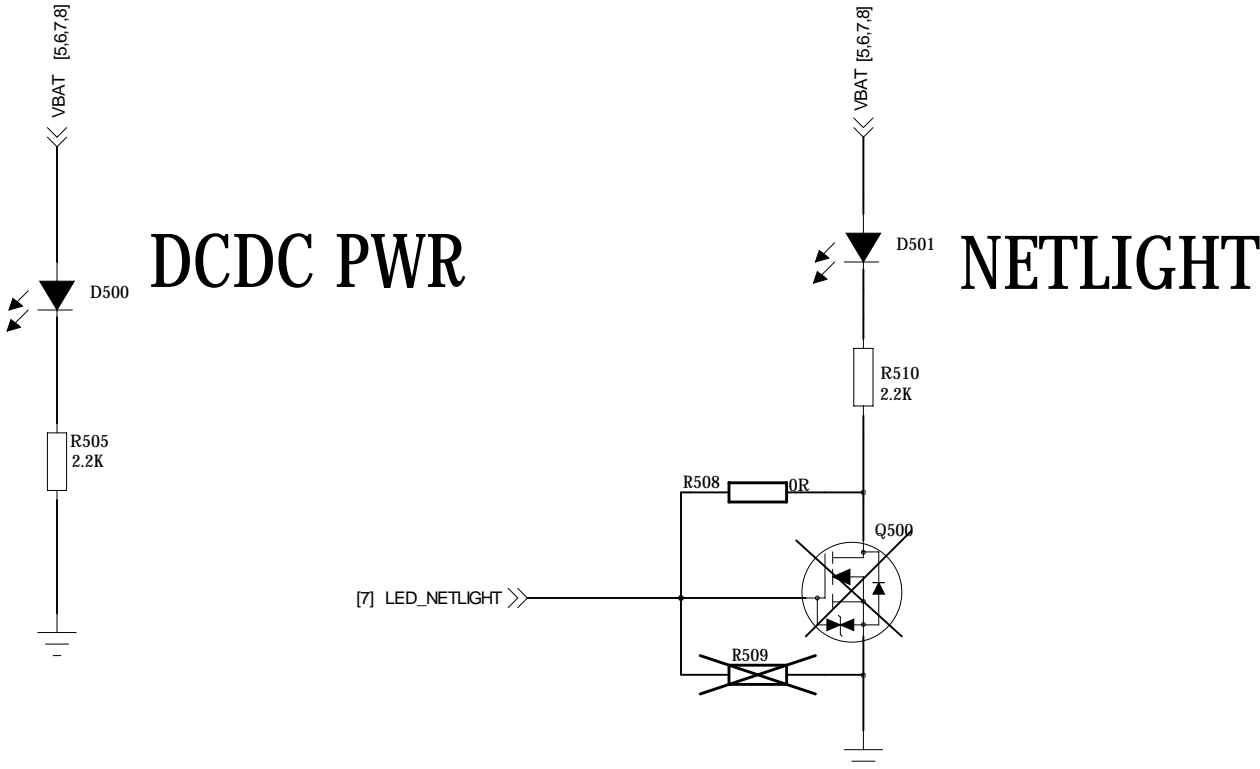
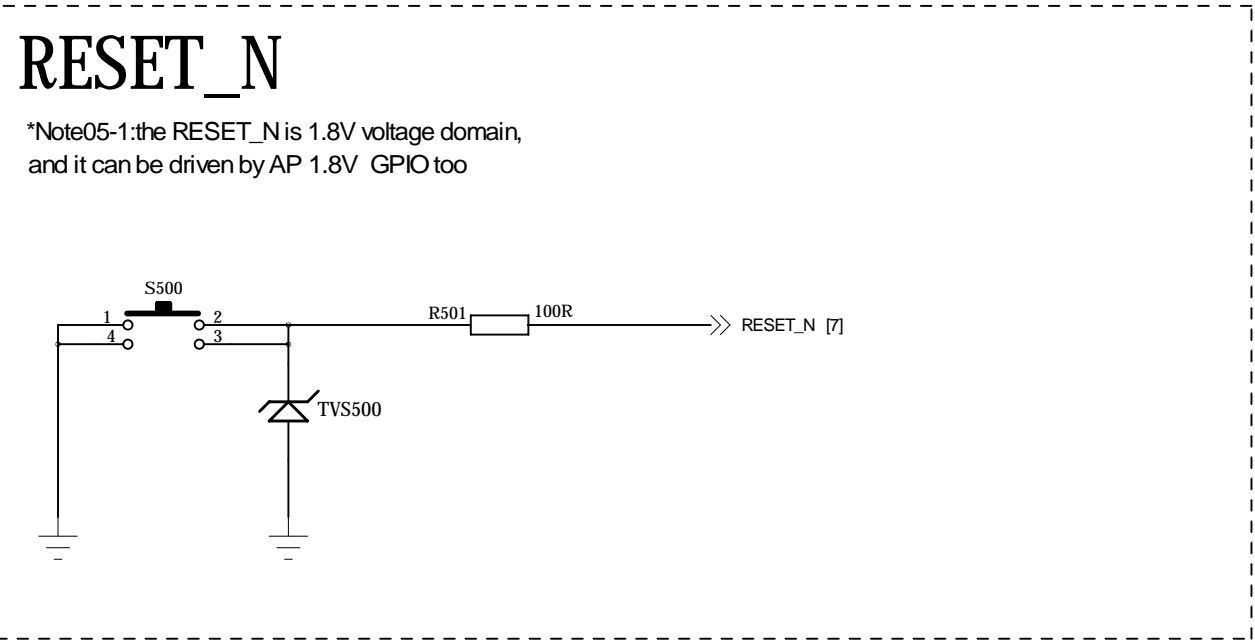
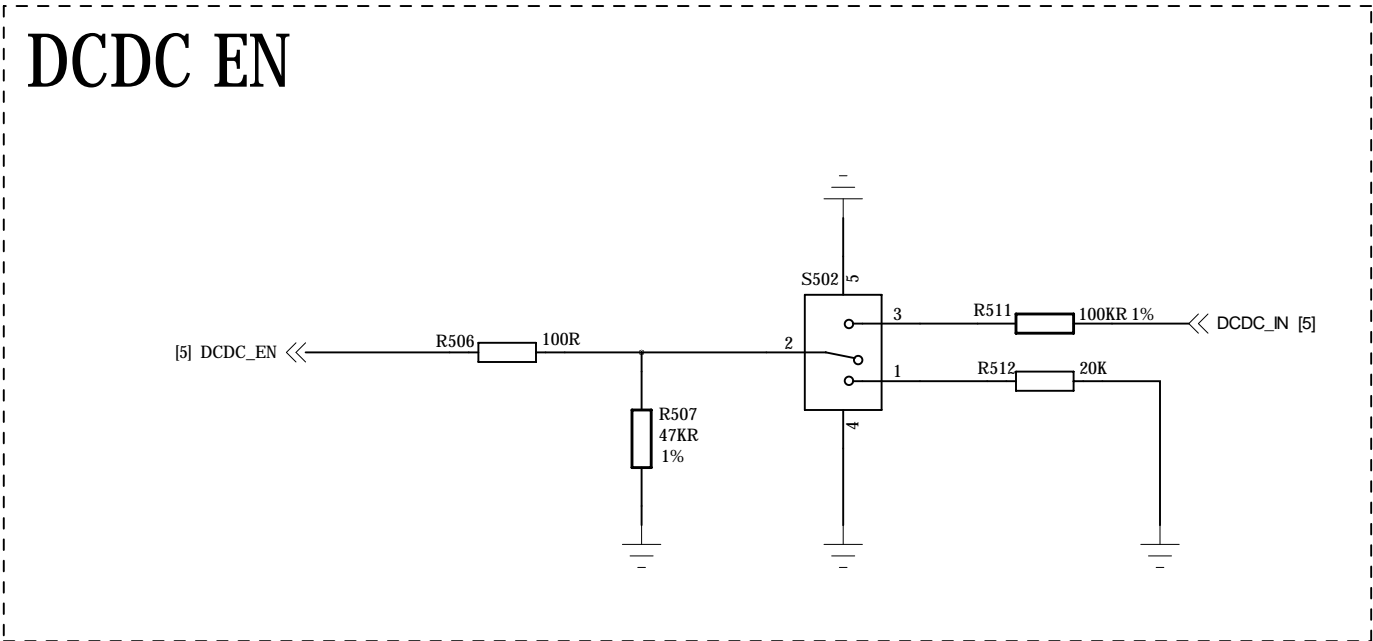
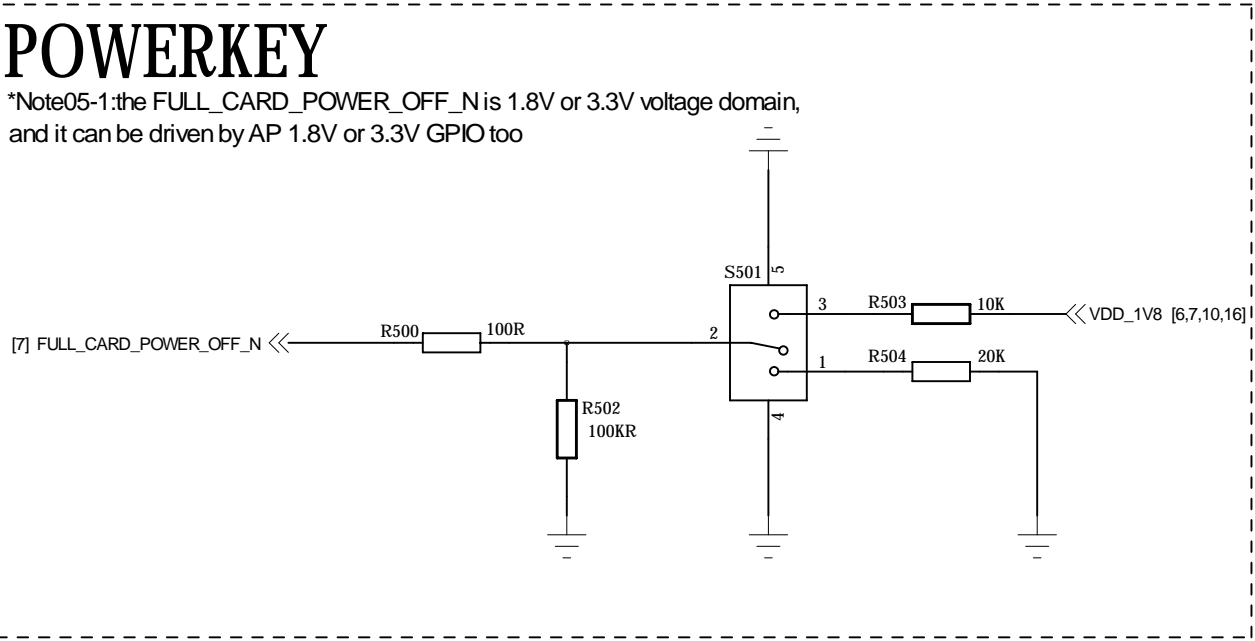
Core Source Option  
RTL8125B use external DC-DC  
RTL8125B(S) use REG\_OUT output

COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
CODE:	SIZE:	DRAWING NO:	REV:
SIM8XXX M2	C	6	V1.01
SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>



POWERKEY/RESET/LED

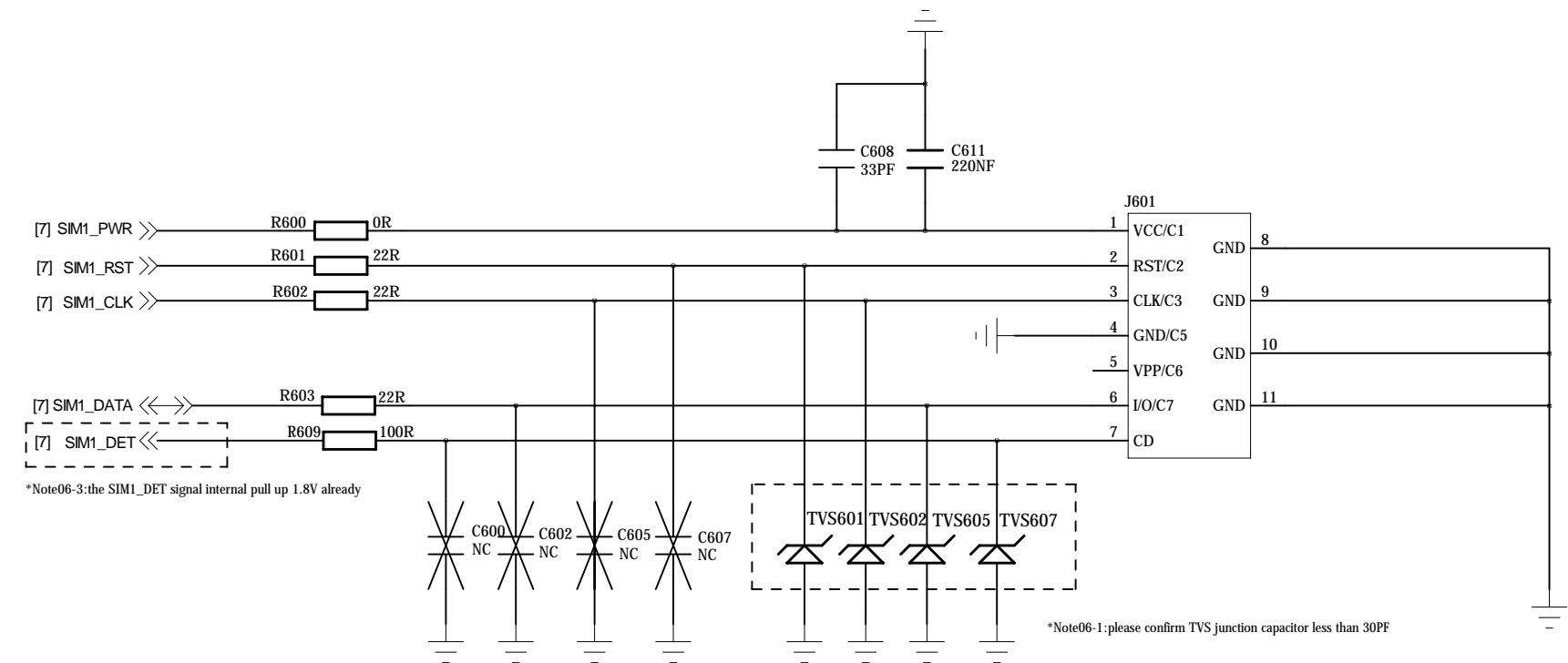


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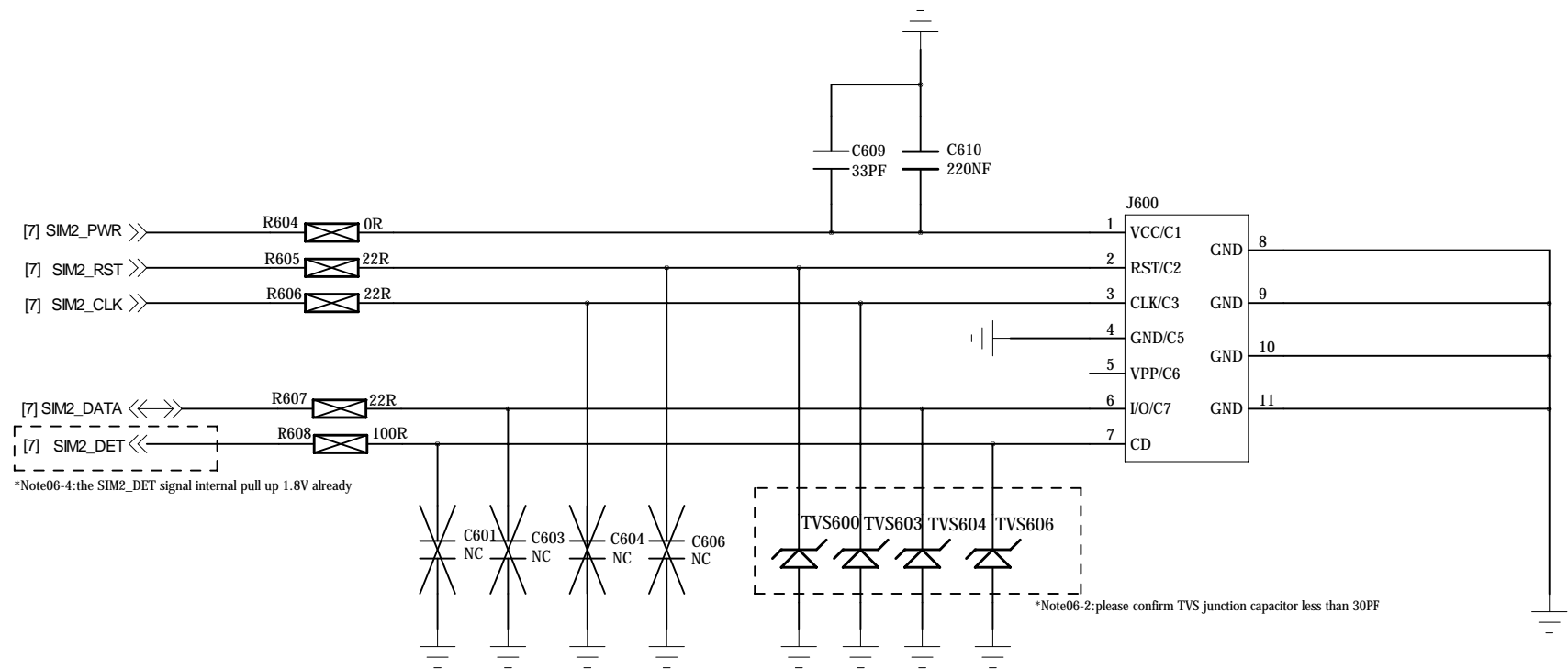
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SIM1/SIM2

SIM1



SIM2



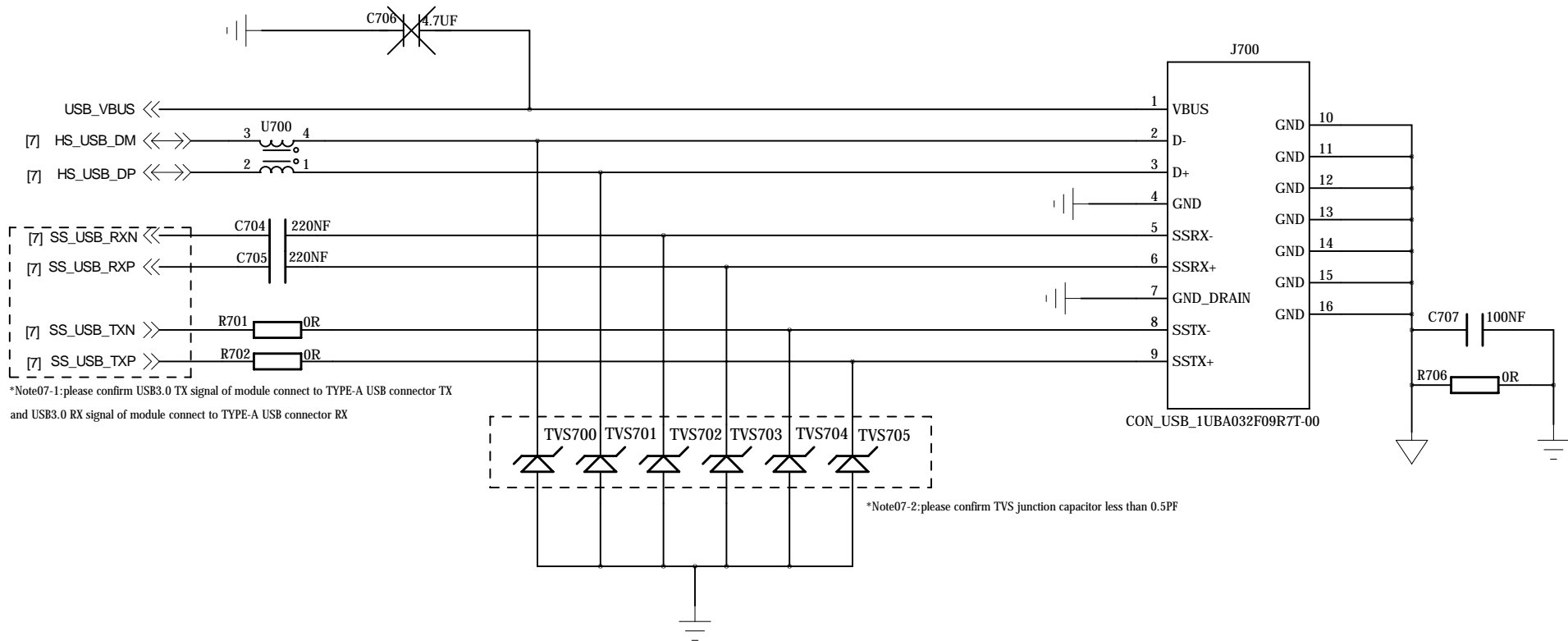
\*Note06-5 : about support mmW function module, need be note mmW QTM control signal shares (U)SIM2 pins, if need use mmW function,need to connect R425 R422 R424 by 0R ressirter, and disconnect R604 R605 R606 R607 R608 resistors.  
for support (U)SIM2 function moudle, if need use (U)SIM2 function,need to connect R604 R605 R606 R607 R608 resistors, and disconnect R425 R422 R424 ressirters

COMPANY: SIMCom			
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SCALE: -			

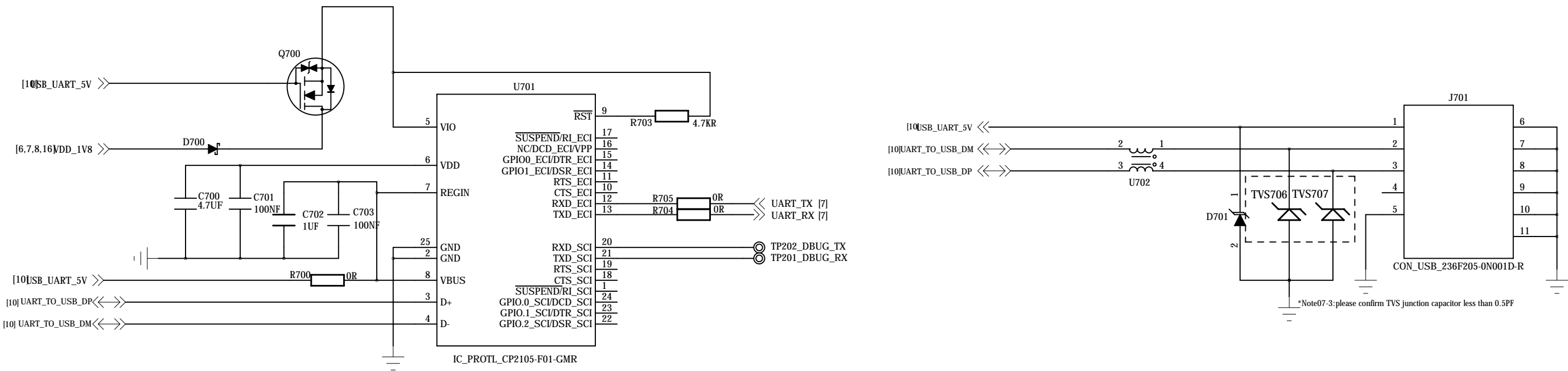
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CHECKED: <Checked By>	DATED: <Release Date>

USB/UART

USB TYPE-A



Micro USB TO UART



COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
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SIM8XXX M2	C	10	V1.01
SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>

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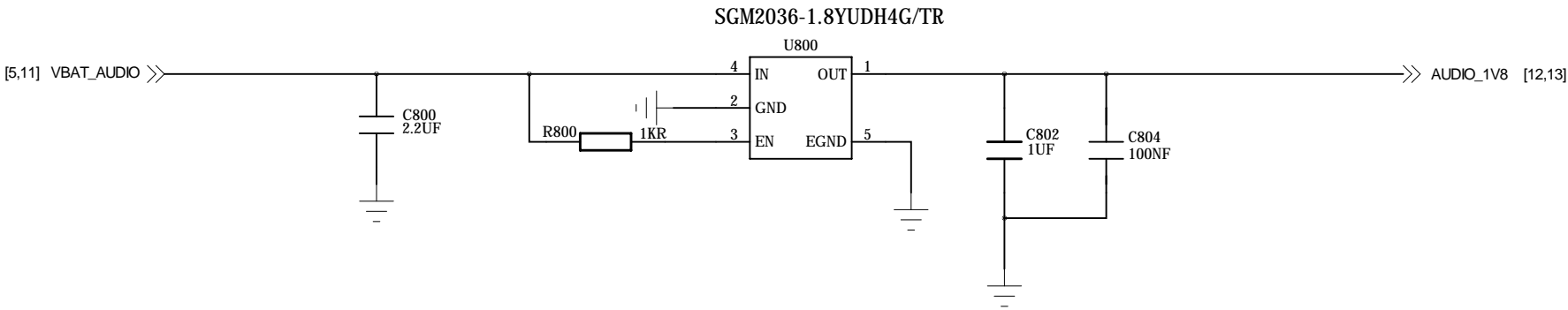
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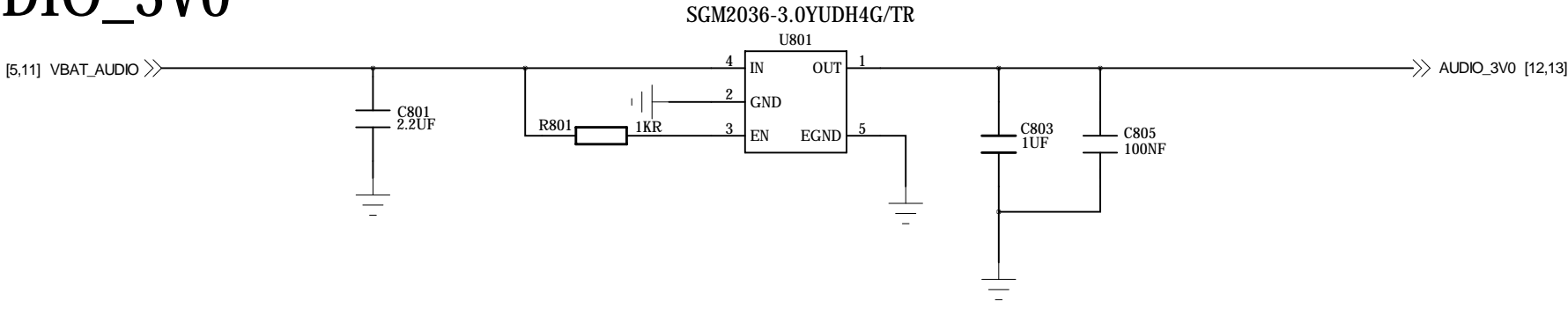
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# CODEC\_POWER

## AUDIO\_1V8



## AUDIO\_3V0



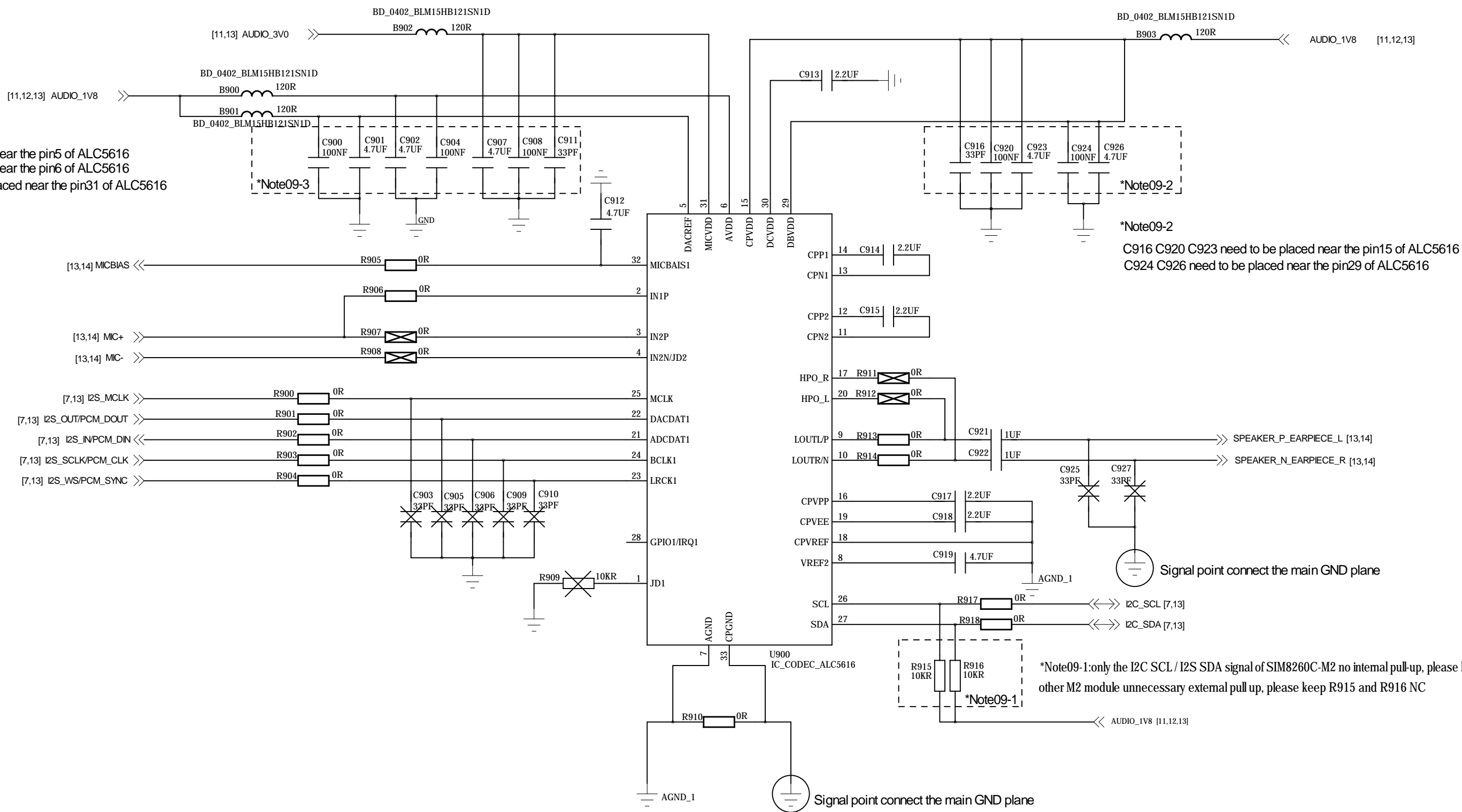
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DRAWN: yao.chen	DATED: <QC Date>
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## COEDC\_ALC5616

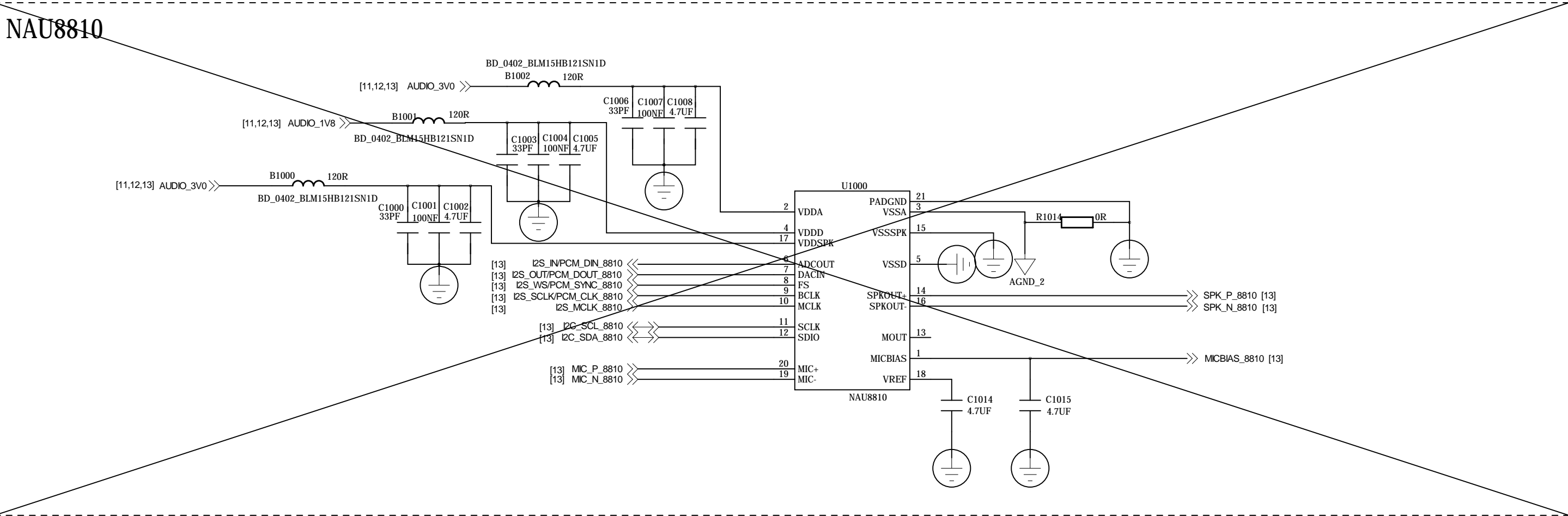
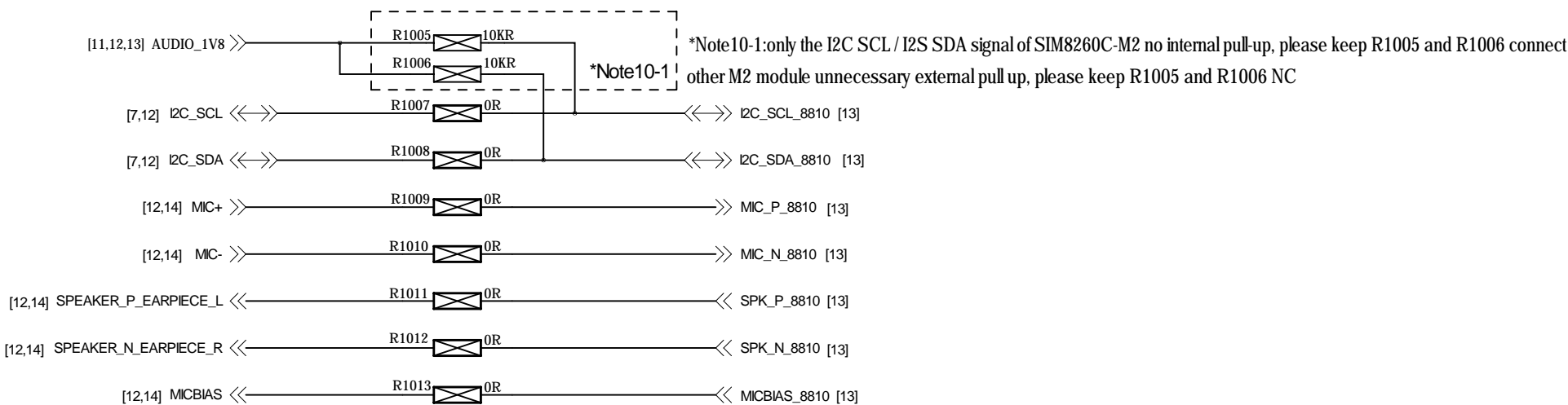
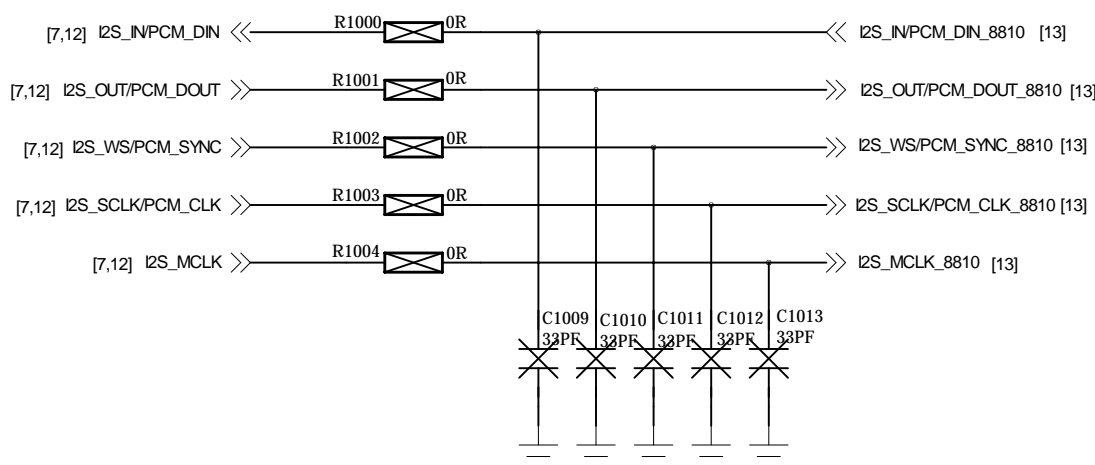
\*Note09-3  
C900 C901 need to be placed near the pin5 of ALC5616  
C902 C904 need to be placed near the pin6 of ALC5616  
C907 C908 C911 need to be placed near the pin31 of ALC5616



COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
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SIM8XXX M2	C	12	V1.01
SCALE: -			

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CHECKED: <Checked By>	DATED: <Release Date>

CODEC\_NAU8810

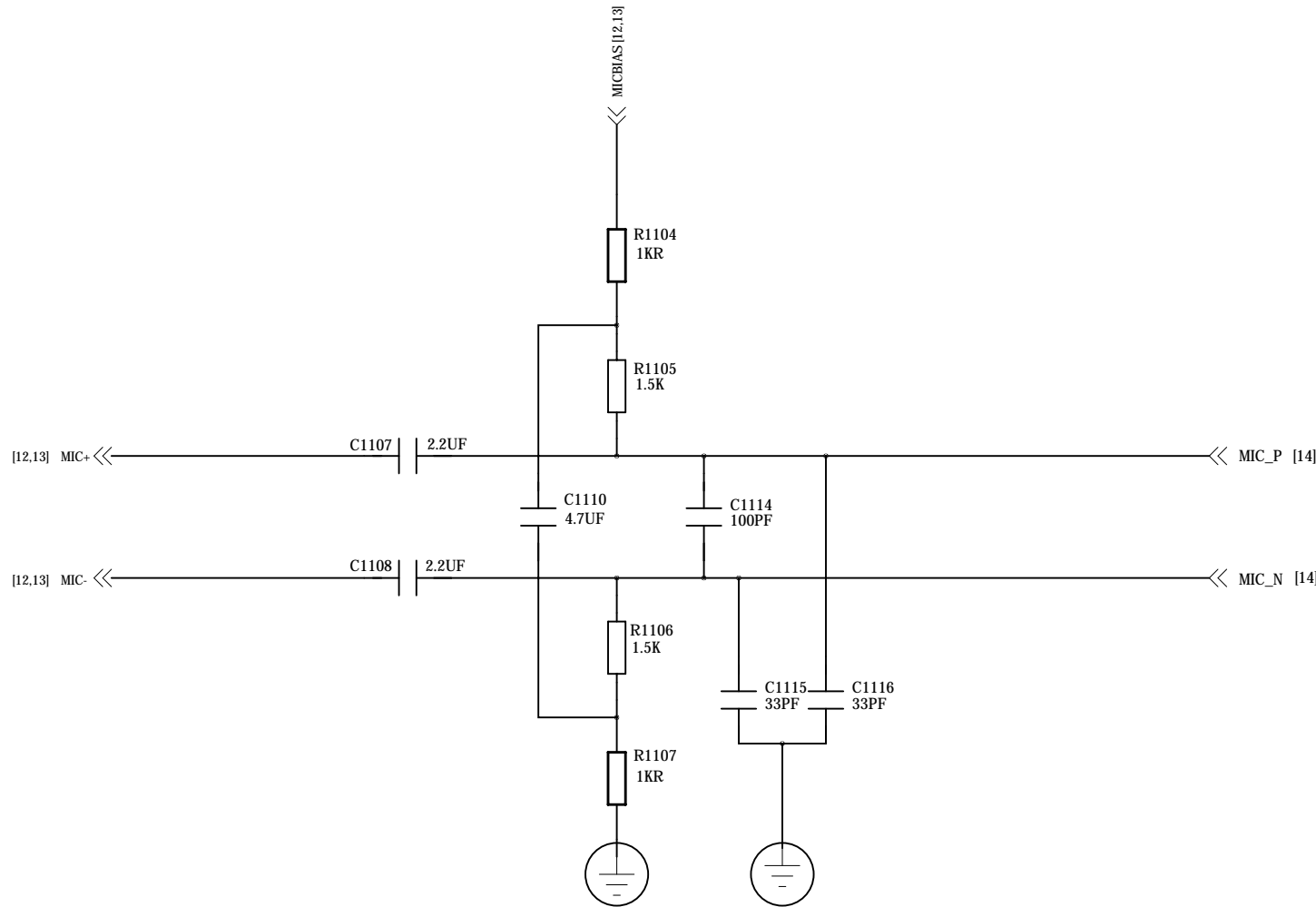


COMPANY: SIMCom			
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SCALE: -			

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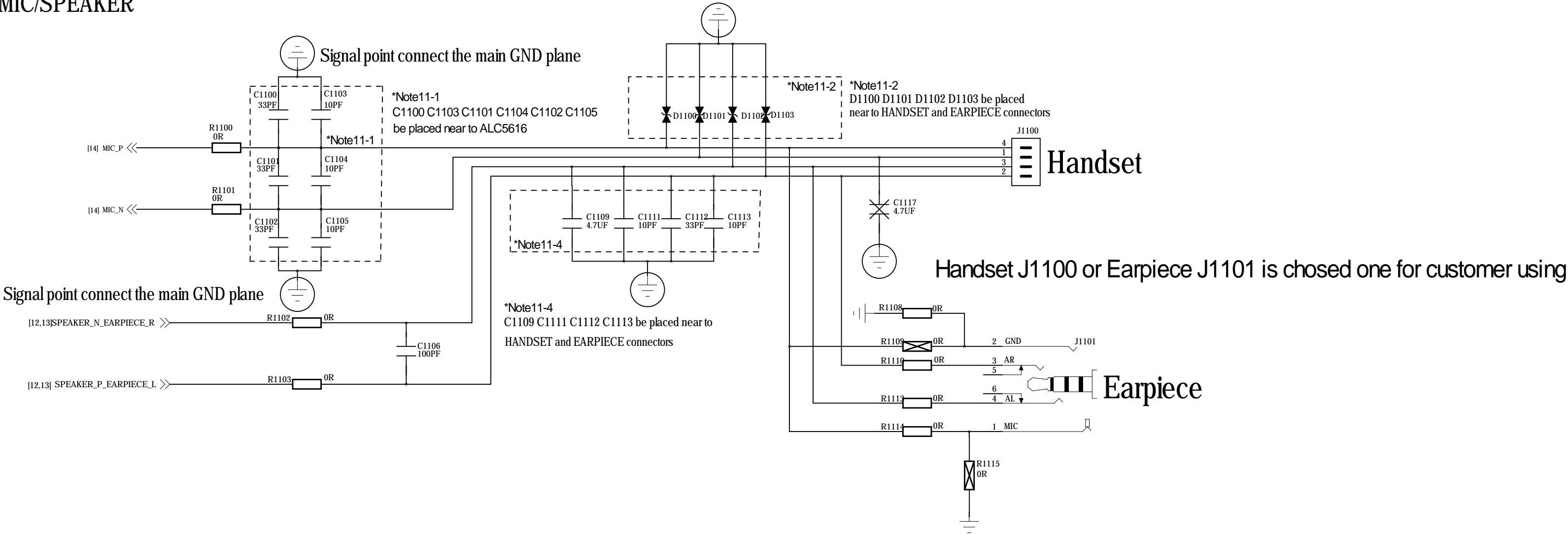
HANDSET/EARPIECE

MIC BIAS



Signal point connect the main GND plane

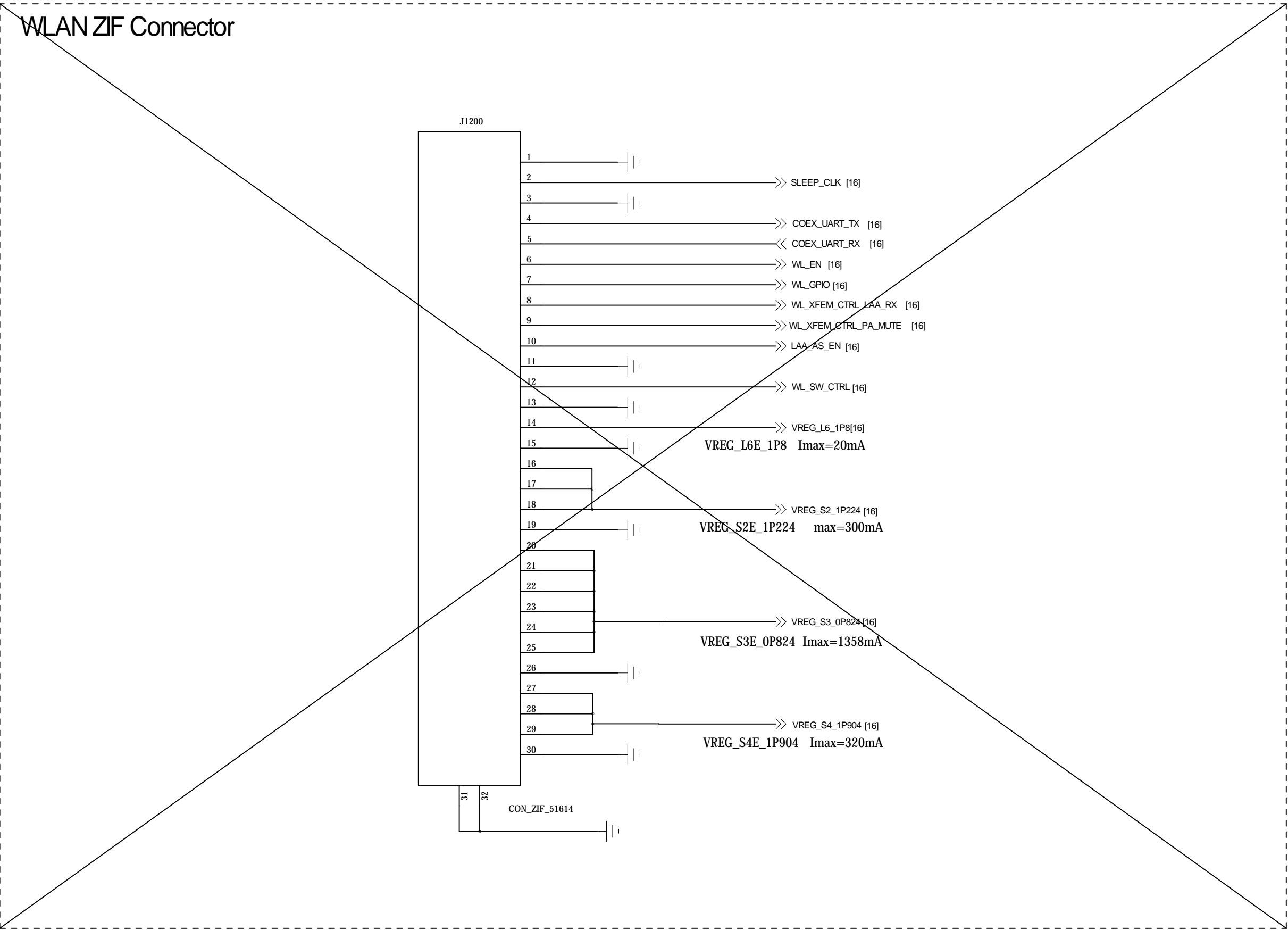
MIC/SPEAKER



COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
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# WIFI\_W80\_WLAN\_ZIF

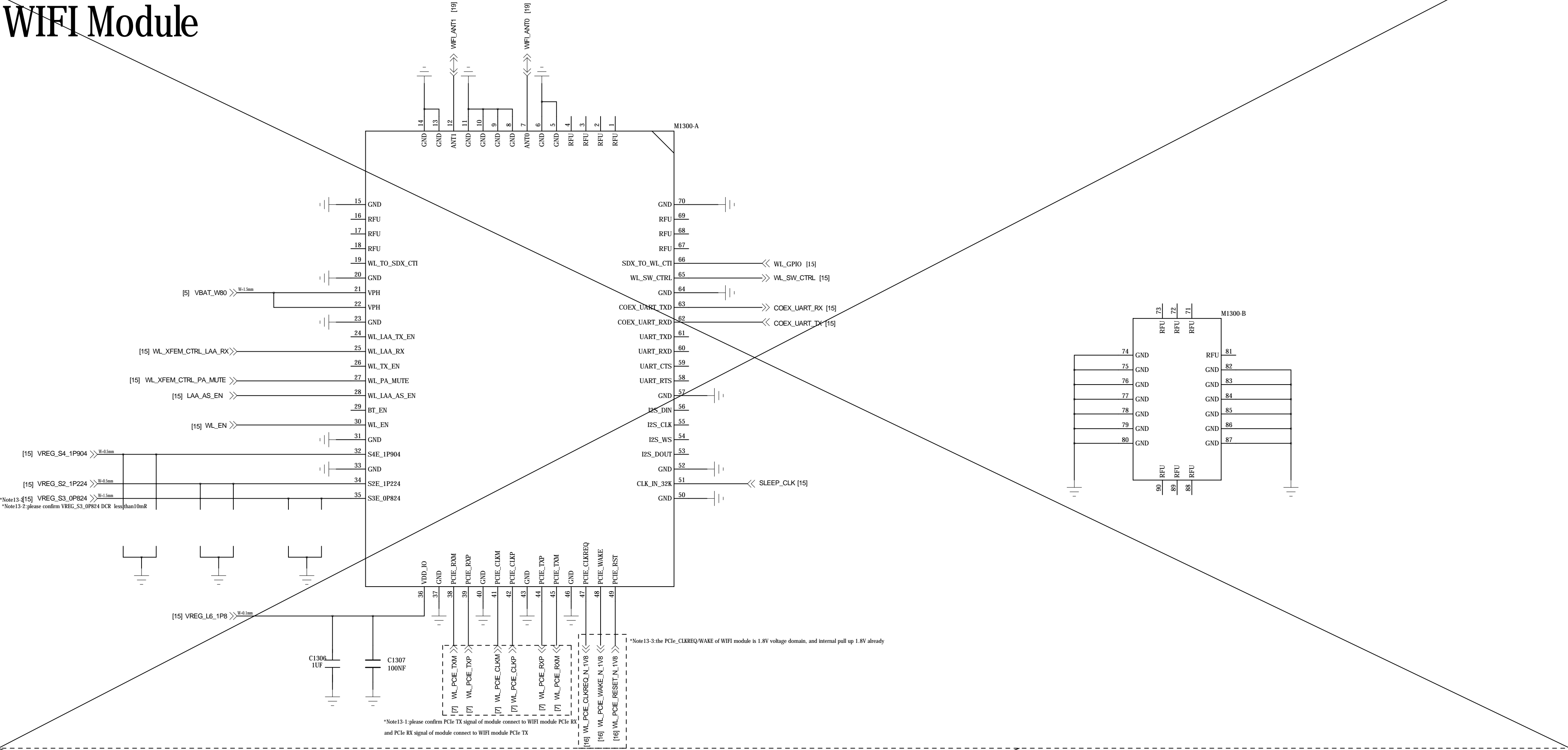


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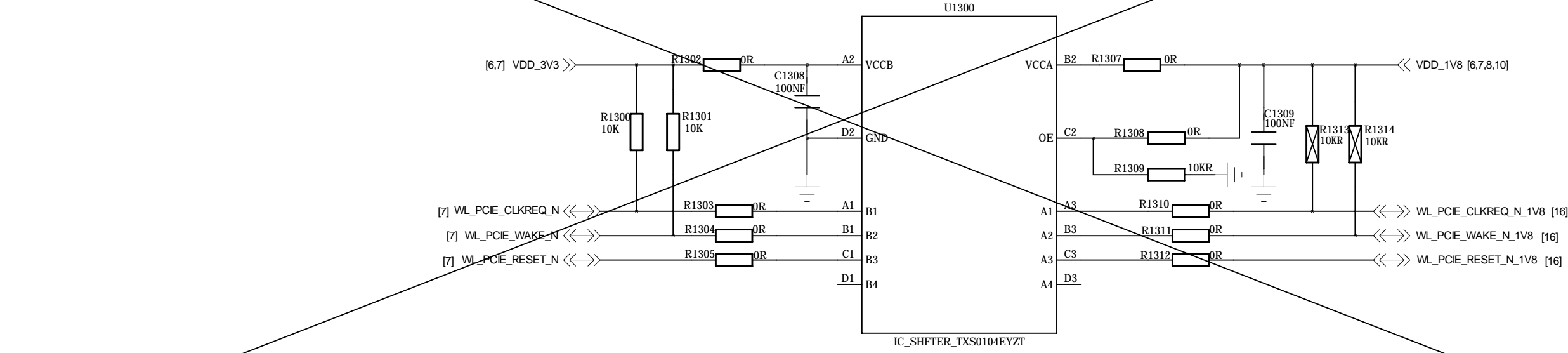
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WIFI Module

WIFI Module



3.3V to 1.8V

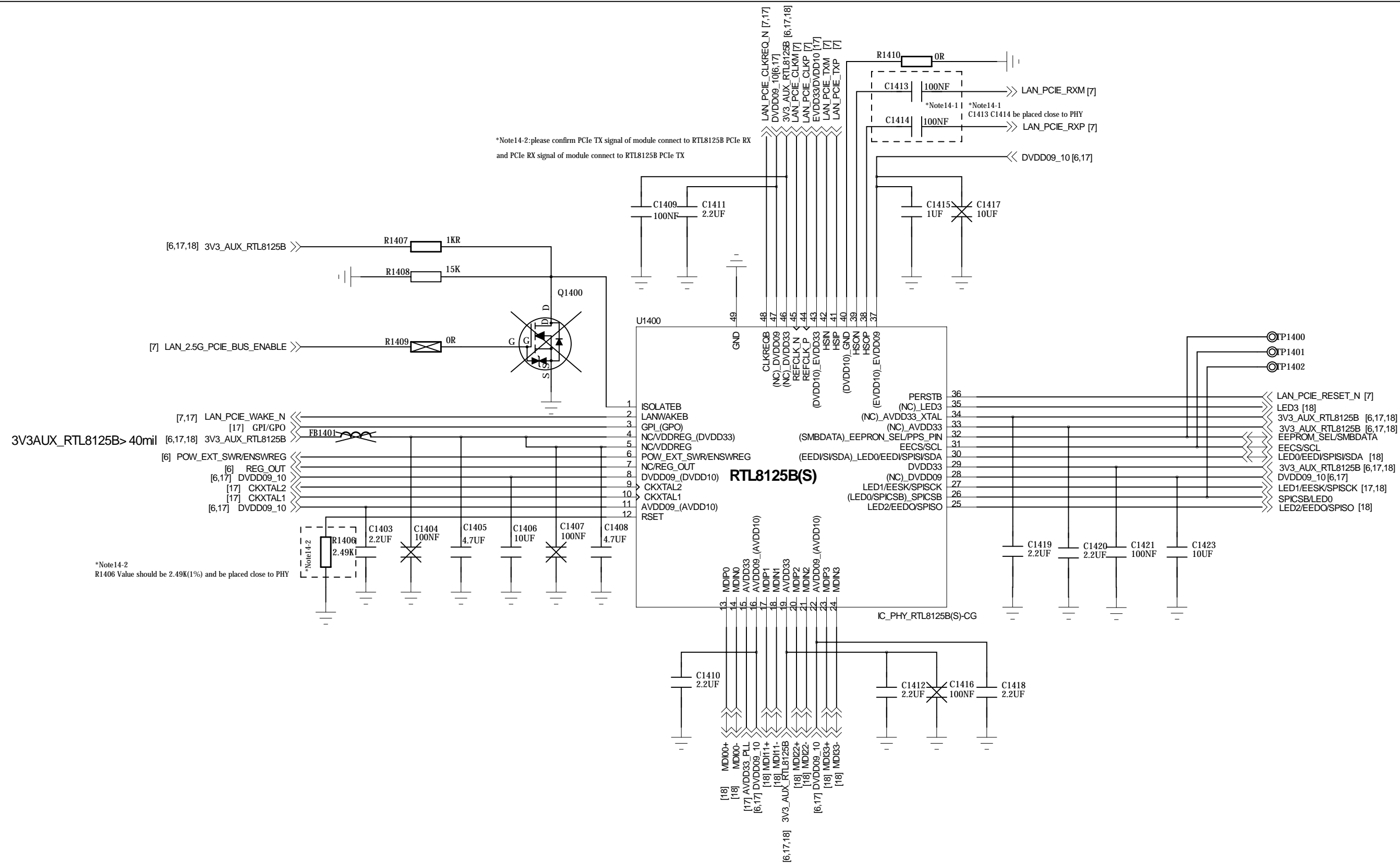


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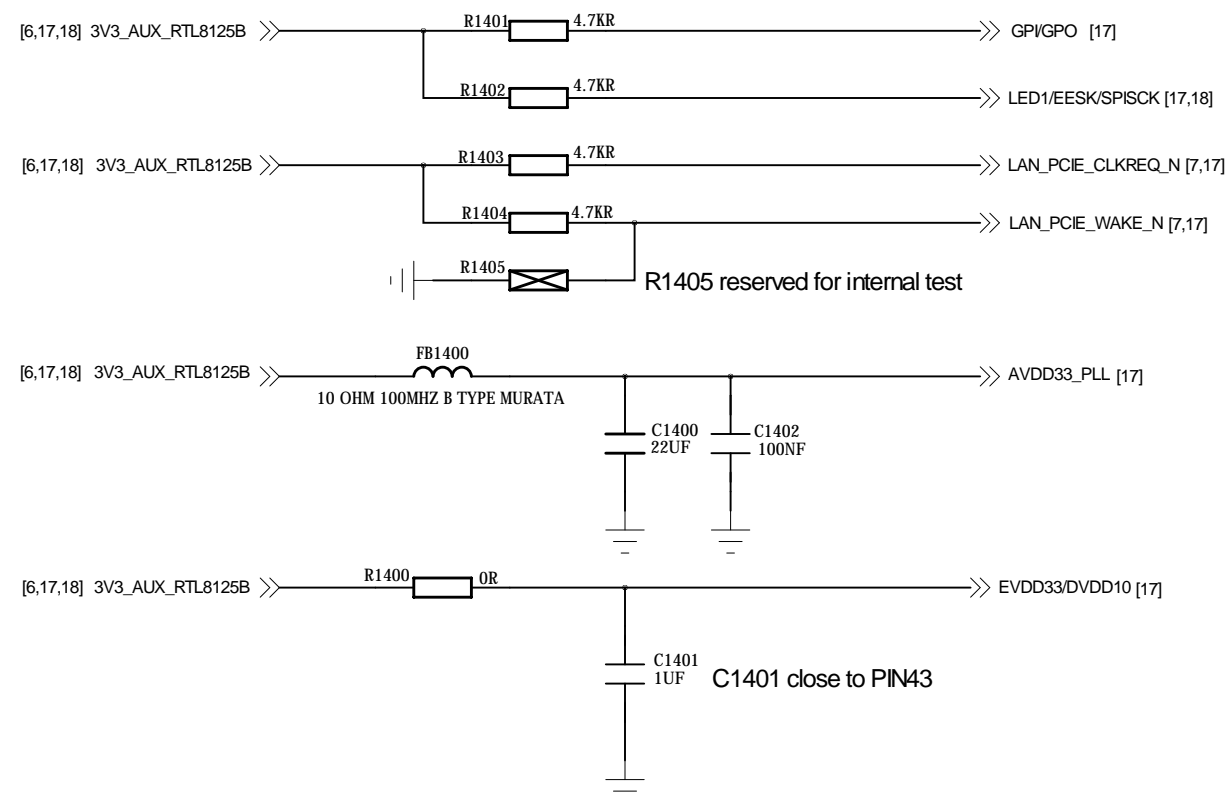
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TITLE:	SIM82XX/SIM83XX M2 Series Module

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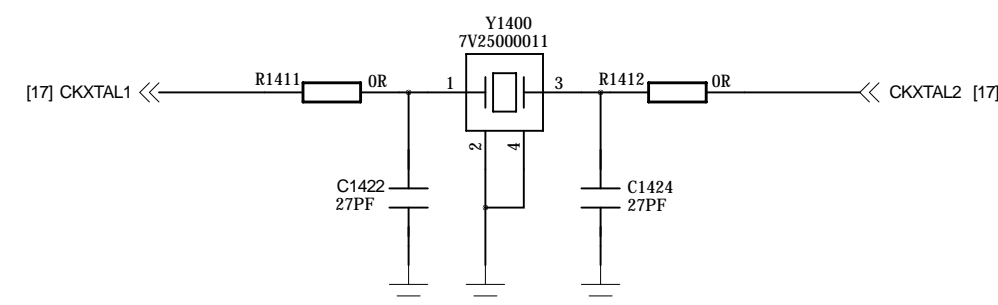
## RTL8125B



# RTL8215B PWR



## 25MHz Crystal

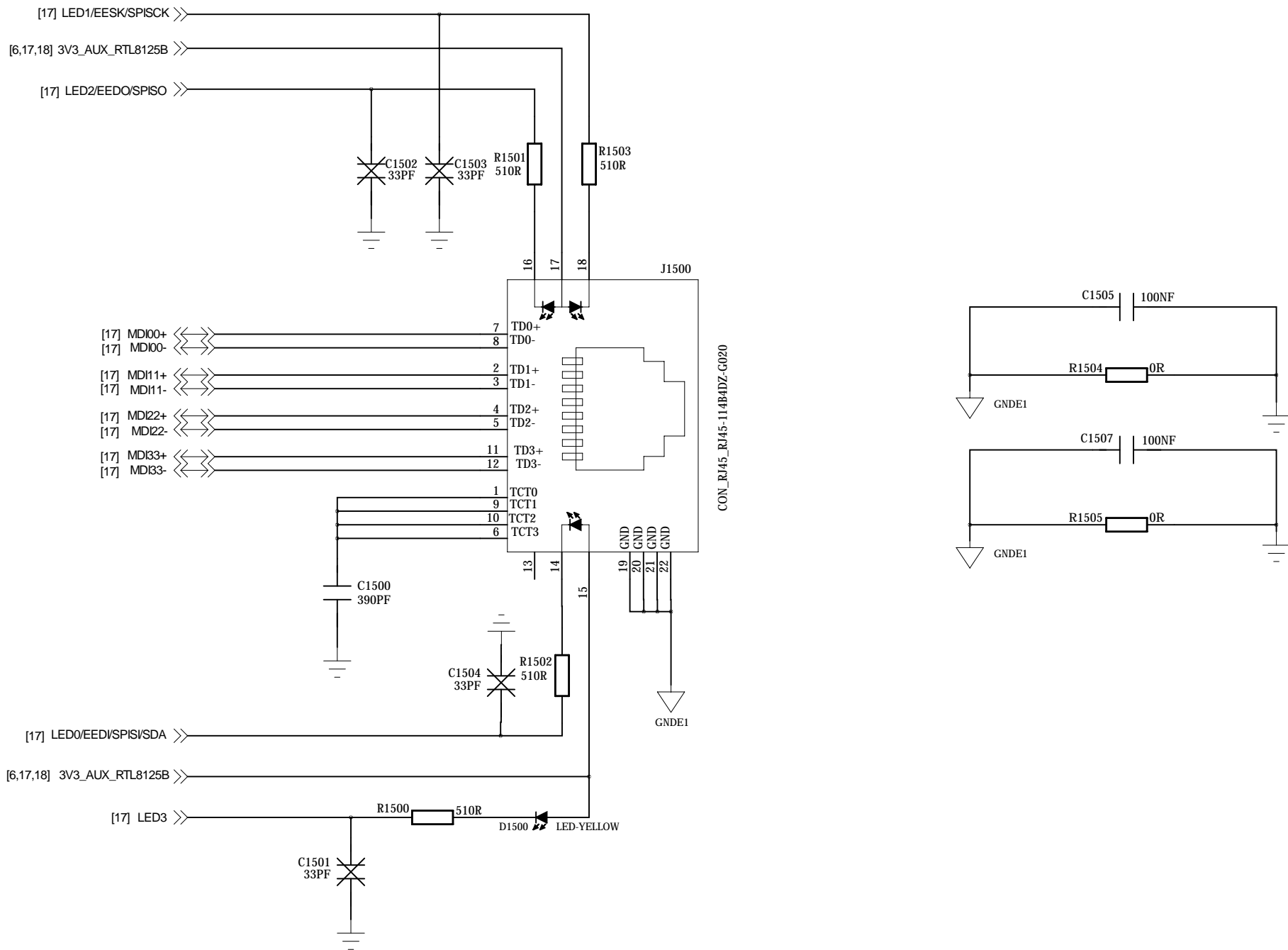


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Ethernet RJ45

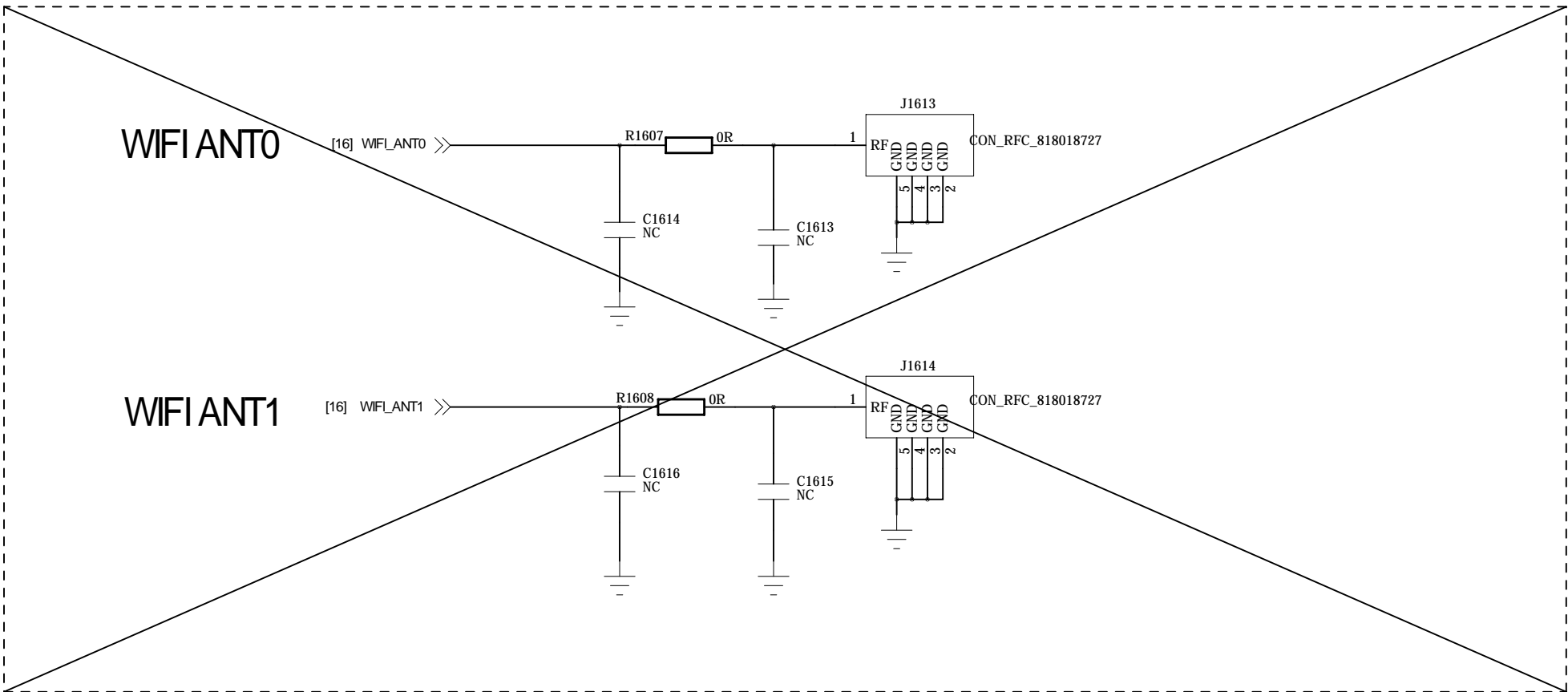
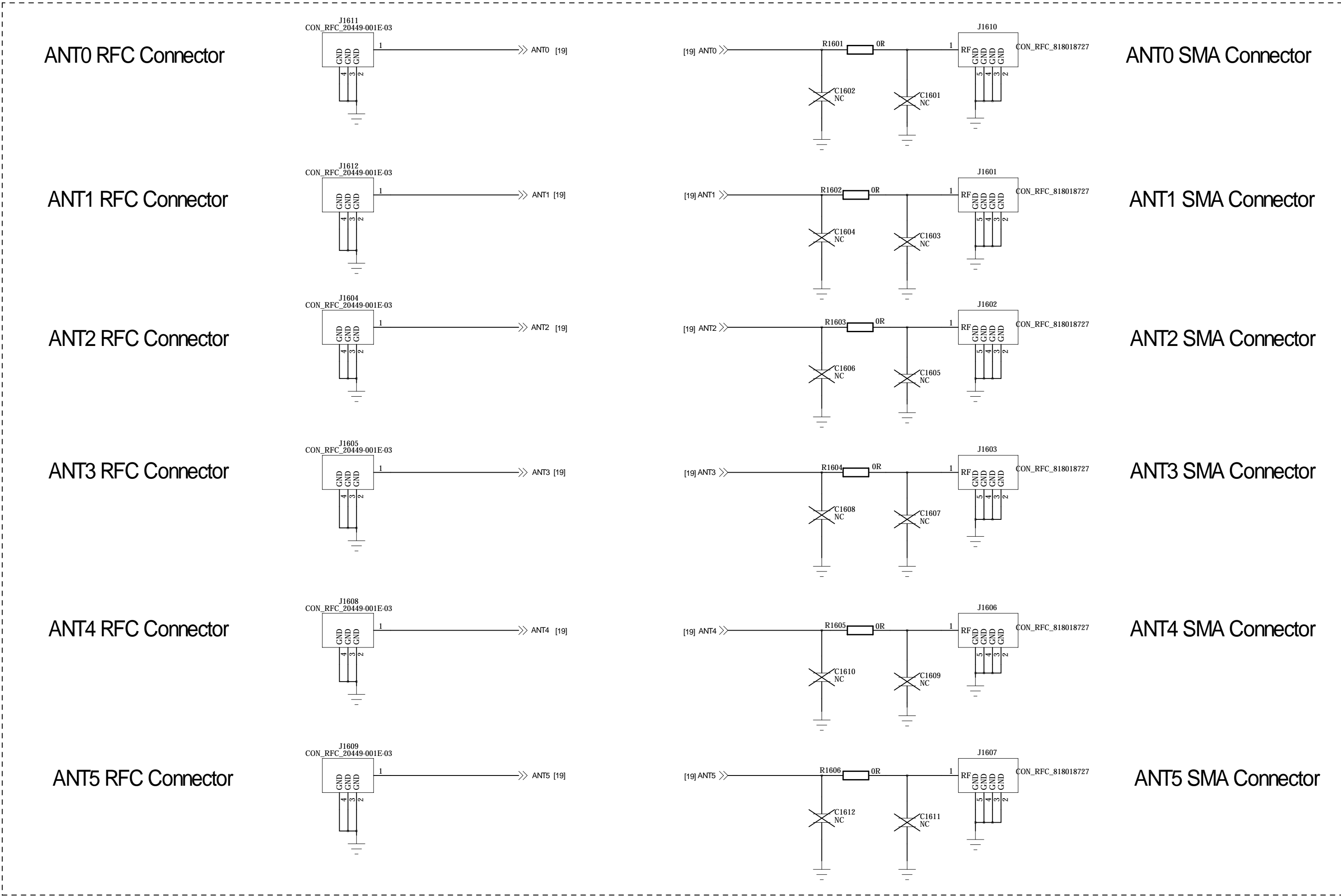
RJ45 Connector + Transformer



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TITLE: SIM82XX/SIM83XX M2 Series Module			
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SIM8XXX M2	C	18	V1.01
SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>

ANT



COMPANY: SIMCom			
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SCALE: -			

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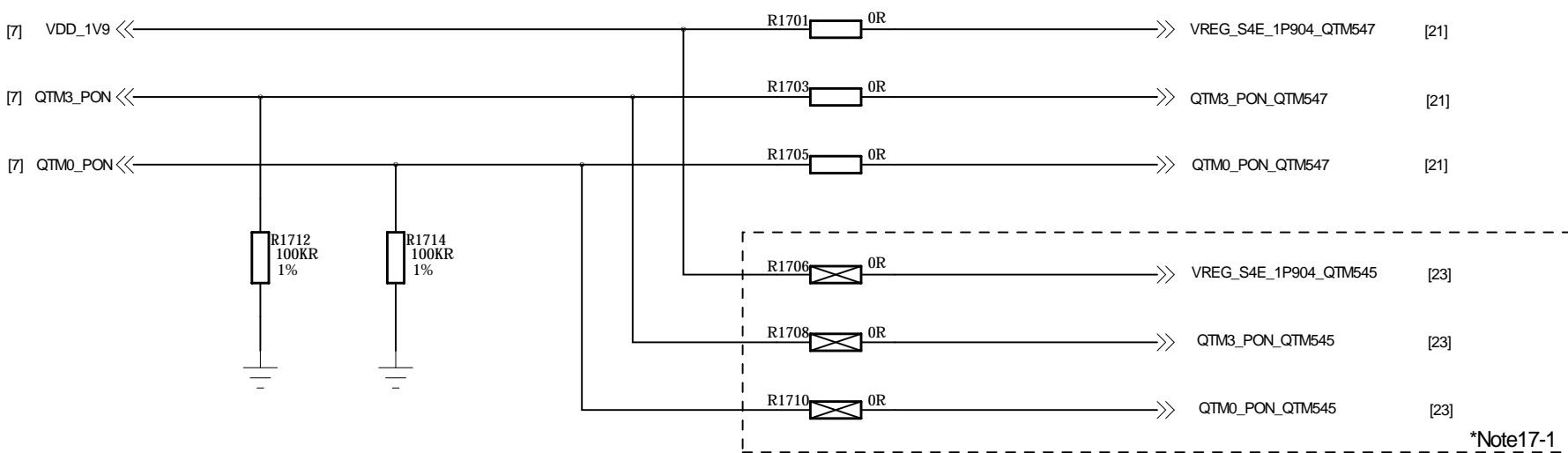
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# MMW\_CONTROL\_SIGNAL

V1.01

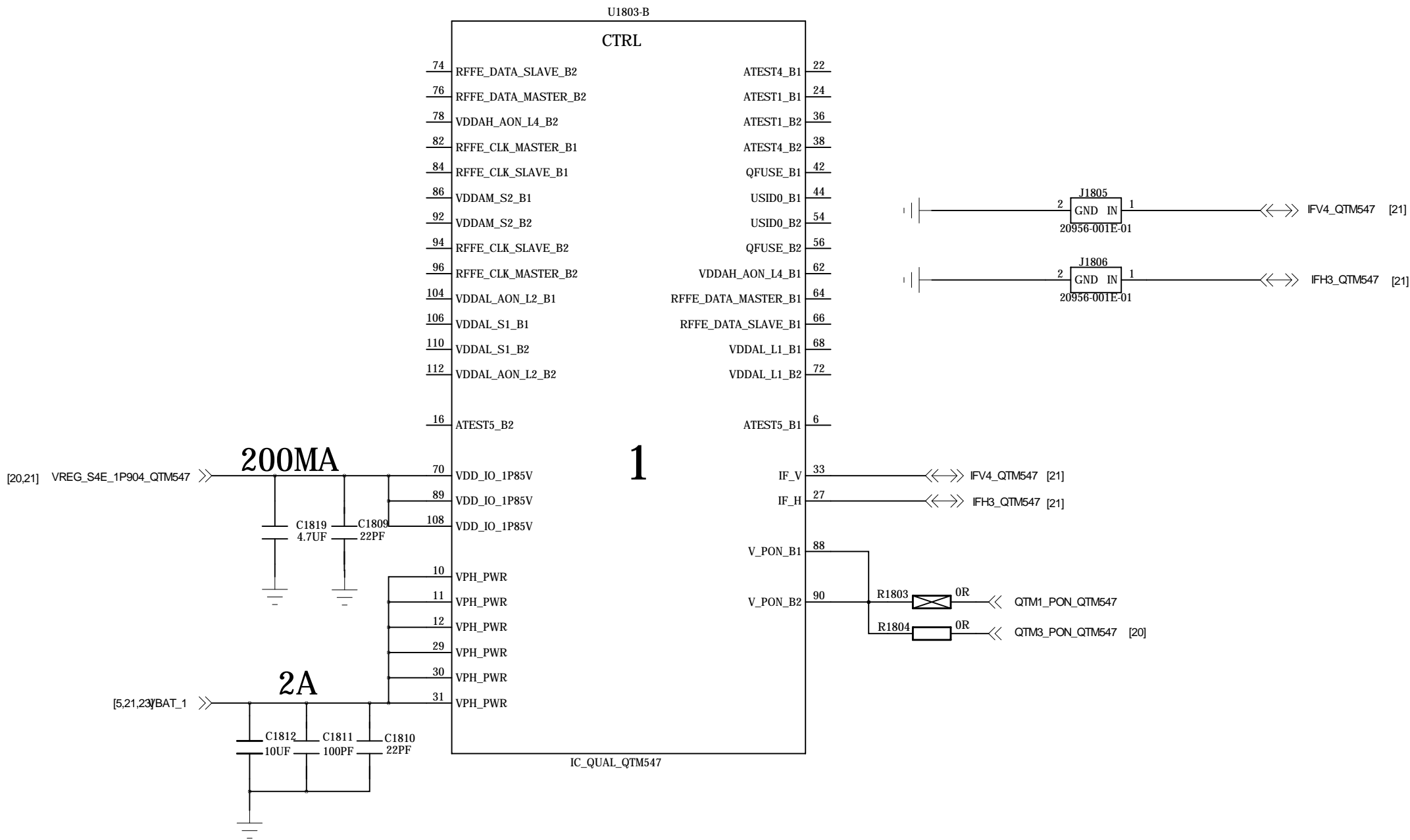
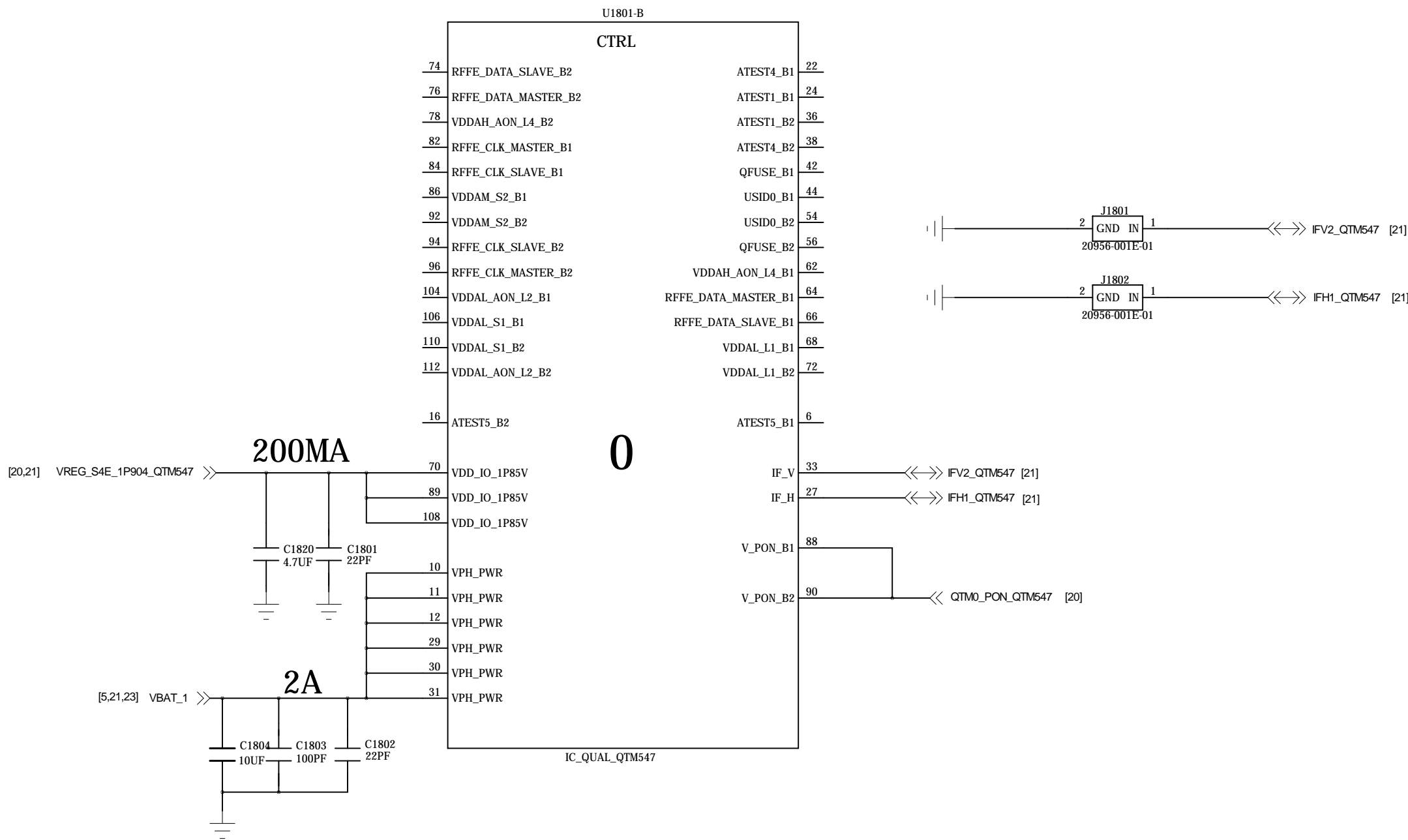


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SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>

# MMW\_QTM547

V1.01



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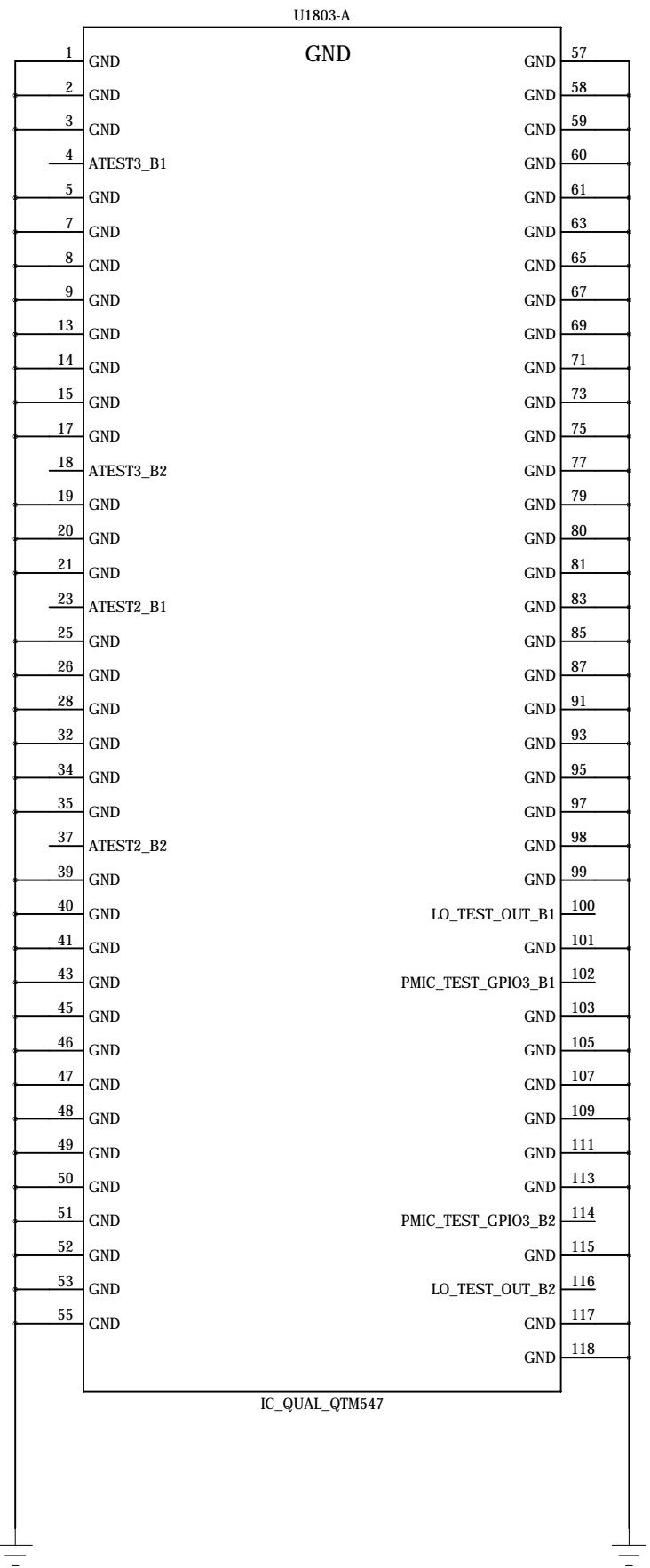
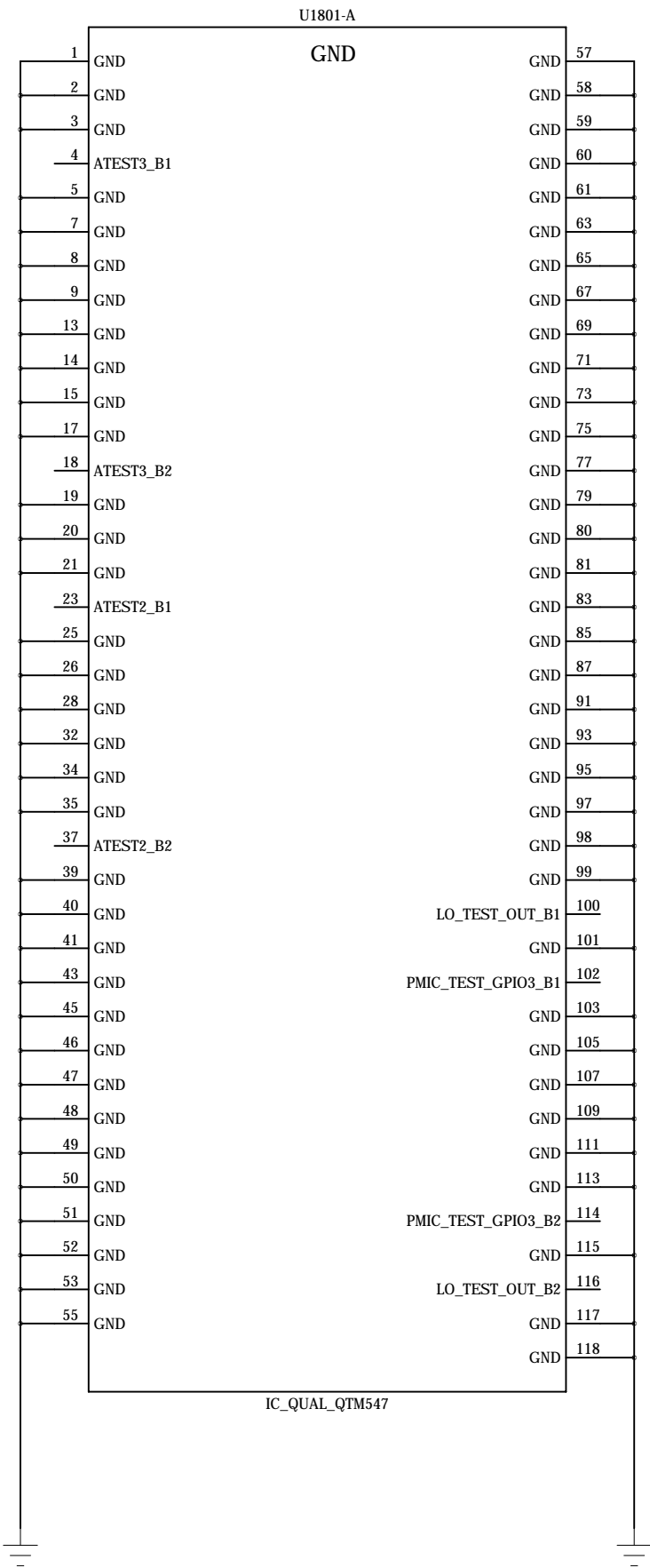
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# MMW\_QTM547\_GND

V1.01

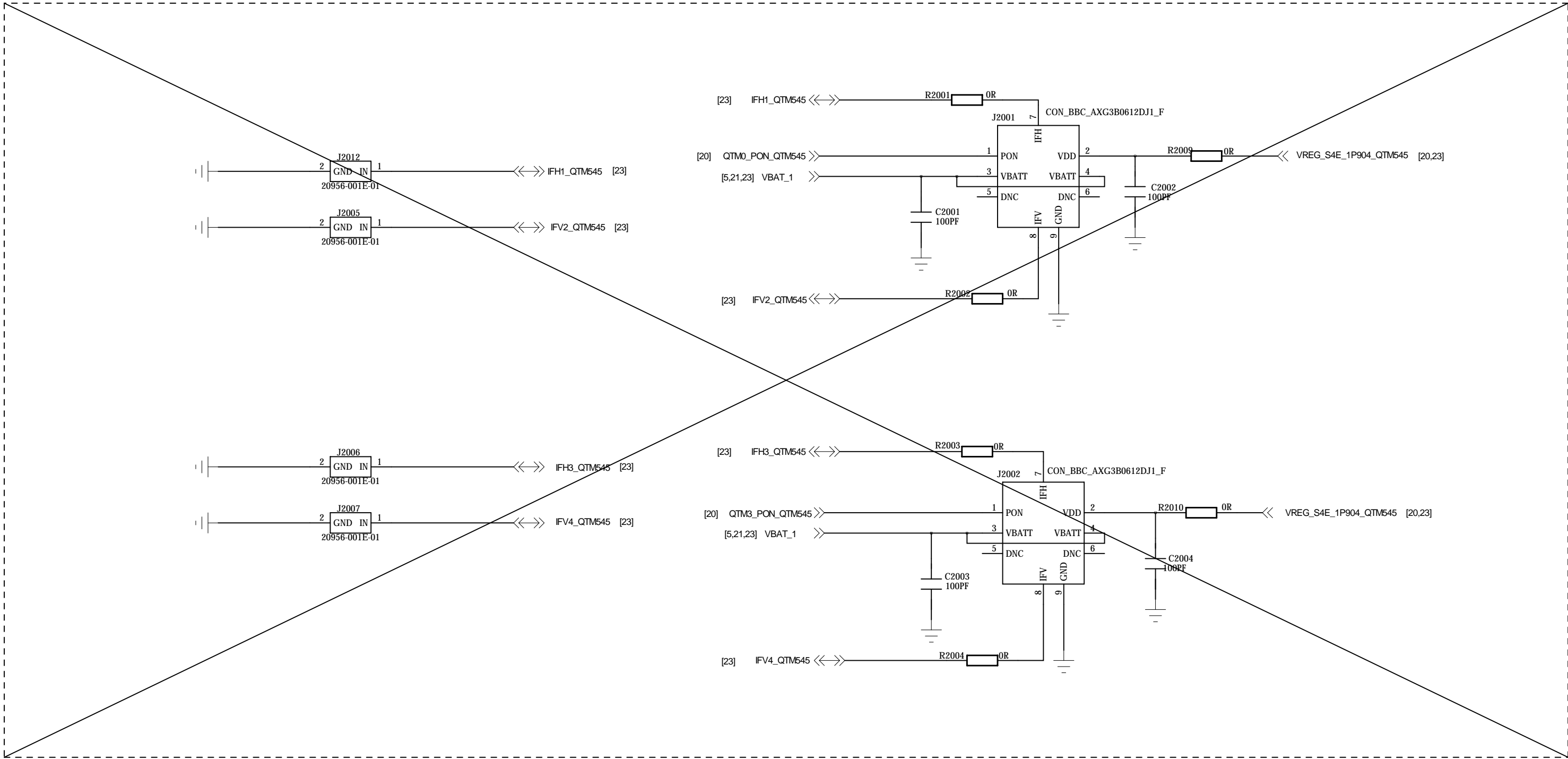


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SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>

# MMW\_QTM545

V1.01



COMPANY: SIMCom			
TITLE: SIM82XX/SIM83XX M2 Series Module			
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SIM8XXX M2	C	23	V1.01
SCALE: -			

DRAWN: yao.chen	DATED: <QC Date>
CHECKED: <Checked By>	DATED: <Release Date>



# BOM List

Item	Part description	Quantity	Manufacturer	MPN	Reference designator
1	RES MF 0R +/-5% 1/16W CH 0402 RO	62	YAGEO	RC0402JR-070RL	R300 R311 R312 R400 R401 R402 R403 R404 R405 R414 R415 R416 R508 R600 R700 R701 R702 R704 R705 R706 R1601 R1602 R1603 R1604 R1605 R1606 R1100 R1101 R1102 R1103 R313 R900 R901 R902 R903 R904 R905 R906 R910 R913 R914 R917 R918 R1108 R1110 R1113 R1114 R1400 R1410 R1411 R1412 R1504 R1505 R201 R207 R1701 R1703 R1705 R425 R422 R424 R1804
2	RES MF 0R +/-5% 1/8W CH 0805 RO	4	YAGEO	RC0805JR-070RL	R214 R215 R212 R213
3	RES MF 22R +/-5% 1/16W CH 0402 RO	3	YAGEO	RC0402JR-0722RL	R601 R602 R603
4	RES MF 100R +/-5% 1/16W CH 0402 RO	4	YAGEO	RC0402JR-07100RL	R500 R501 R506 R609
5	RES MF 510R +/-1% 1/16W CH0402 RO	4	YAGEO	RC0402FR-07510RL	R1500 R1501 R1502 R1503
6	RES MF 1KR +/-1% 1/16W CH 0402 RO	5	YAGEO	RC0402FR-071KL	R800 R801 R1104 R1107 R1407
7	RES MF 1.5KR +/-5% 1/16W CH0402 RO	2	YAGEO	RC0402JR-071K5L	R1105 R1106
8	RES MF 2.2KR +/-5% 1/16W CH 0402 RO	2	YAGEO	RC0402JR-072K2L	R505 R510
9	RES MF 2.49K +/-1% 1/16W CH0402 RO	1	YAGEO	RC0402FR-072K49L	R1406
10	RES MF 4.7KR +/-5% 1/16W CH 0402 RO	5	YAGEO	RC0402JR-074K7L	R703 R1404 R1401 R1402 R1403
11	RES MF 6.04K +/-1% 1/16W CH0402 RO	1	YAGEO	RC0402FR-076K04L	R204
12	RES MF 7.5K +/-1% CH0402 RO	1	YAGEO	RC0402FR-077K5L	R209
13	RES MF 10KR +/-5% 1/16W CH 0402 RO	8	YAGEO	RC0402JR-0710KL	R301 R412 R503 R302 R303 R915 R916 R206
14	RES MF 15KR +/-1% 1/16W CH0402 RO	1	YAGEO	RC0402FR-0715KL	R1408
15	RES MF 20KR +/-5% 1/16W CH 0402 RO	2	YAGEO	RC0402JR-0720KL	R504 R512
16	RES MF 39KR +/-1% 1/16W CH0402 RO	1	YAGEO	RC0402FR-0739KL	R208
17	RES MF 47KR +/-1% 1/16W CH0402 RO	1	YAGEO	RC0402FR-0747KL	R507
18	0402贴片电阻(59KΩ ±1% 1/16W ) RO	1	YAGEO	RC0402FR-0759KL	R309
19	RES MF 60.4K +/-1% 1/16W CH0402 RO	1	YAGEO	RC0402FR-0760K4L	R205
20	RES MF 75KR +/-1% 1/16W CH0402 RO	2	YAGEO	RC0402FR-0775KL	R306 R308
21	RES MF 100KR +/-1% 1/16W CH 0402 RO	6	YAGEO	RC0402FR-07100KL	R307 R310 R502 R511 R1712 R1714
22	RES MF 330KR +/-1% 1/16W CH0402 RO	1	YAGEO	RC0402FR-07330KL	R305
23	CAP COG 10PF +/-5% 50V CH0402 RO	5	MURATA	GRM1555C1H100JA01D	C1103 C1104 C1105 C1111 C1113
24	CAP C0G 22PF ±5% 50V CH0402 RO	4	EYANG	C0402C0G220J500NTB	C1801 C1809 C1802 C1810
25	CAP C0G 27PF ±5% 50V CH0402 RO	2	EYANG	C0402C0G270J500NTB	C1422 C1424
26	CAP C0G 33PF ±5% 50V CH0402 RO	12	华科	0402N330J500CT	C608 C609 C911 C916 C1100 C1101 C1102 C1112 C1115 C1116 C406 C404
27	CAP C0G 100PF ±5% 50V CH0402 RO	4	华科	0402N101J500CT	C1106 C1114 C1803 C1811
28	CAP X7R 390PF +/-10% 50V CH0402 RO	1	YAGEO	CC0402KRX7R9BB391	C1500
29	CAP X7R 2.2NF ±10% 50V CH0402 RO	1	华科	0402B222K500CT	C218
30	CAP X5R 100NF 25V +/-20% CH0402 RO	26	EYANG	C0402X5R104M250NTB	C305 C314 C701 C703 C804 C805 C707 C316 C307 C308 C302 C315 C900 C904 C908 C920 C924 C1402 C1409 C1413 C1414 C1421 C1505 C1507 C212 C217
31	CAP X5R 220NF +/-10% 10V CH0402 RO	4	YAGEO	CC0402KRX5R6BB224	C610 C611 C704 C705
32	CAP X5R 1UF +/-10% 16V CH0402 RO	10	MURATA	GRM155R61C105KA12D	C313 C921 C922 C1401 C1415 C702 C311 C802 C803 C214
33	CAP X5R 1UF +/-10% 25V CH0603 RO	2	EYANG	C0603X5R105K250NTD	C301 C203
34	CAP X5R 2.2UF +/-20% 6.3V CH0402 RO RO	17	TAIYO	JMK105 BJ225MV-F	C1403 C1410 C1412 C1418 C1419 C1420 C1411 C309 C800 C801 C913 C914 C915 C917 C918 C1107 C1108
35	CAP X5R 2.2UF +/-10% 10V CH0603 RO	1	MURATA	GRM188R61A225KE34D	C304
36	CAP X5R 4.7UF +/-20% 10V CH0402 RO	14	MURATA	GRM155R61A475MEAAD	C700 C902 C907 C912 C919 C923 C926 C1110 C901 C1109 C1405 C1408 C1820 C1819
37	CAP X5R 10UF +/-20% 6.3V CH0402 RO	4	MURATA	GRM155R60J106ME44D	C1406 C1423 C403 C405
38	CAP X5R 10UF +/-20% 25V CH0603 RO	1	MURATA	GRT188R61E106ME13D	C202
39	CAP X5R 10UF 50V 10% 0805 RO	3	MURATA	GRM21BR61H106KE43L	C208 C209 C210
40	CAP CER 10UF 25V 10% X7R 1206 RO	2	SAMSUNG	CL31B106KAHNNNE	C206 C207
41	CAP C0G 22UF +/-20% 6.3V CH0402 RO	1	MURATA	GRM155R60J226ME11D	C310
42	CAP X5R 22UF +/-20% 10V CH0603 RO	6	MURATA	GRM188R61A226ME15D	C300 C303 C312 C1400 C1804 C1812
43	CAP X5R 22UF 25V +/-20% 0805 RO	1	MURATA	GRM21BR61E226ME44L	C201
44	CAP X5R 47UF ±20% 6.3V CH0805*0.95H RO	5	SAMSUNG	CL21A476MQLCRNC	C222 C225 C226 C228 C229
45	CAP CER 100UF 6.3V 20% X6T 1206 RO	3	MURATA	GRM31CD80J107ME39L	C219 C220 C223
46	100UF ±20% 16V 1210 X5R RO	2	TAIYO	EMK325ABJ107MM-P	C204 C205
47	CAP,POLYMER,220UF,±20%,6.3V,3528 RO	2	KEMET	T520B227M006ATE045	C401 C402
48	IND PWR 1UH +/-20% 3.8A CH2012*0.8 RO	1	CYNTEC	HTQP20120H-1R0MSR	L302
49	Power IND 2.2uH +20% Isat=2.7A 2016 RO	1	SAMSUNG	CIGT201610EH2R2MNE	L301
50	IND PWR 0.47UH +/-20% 25A 9.2*8.5MM RO	1	SUNLORD	MWSA0804S-R47MT	L201
51	BEAD 120R@100MHZ 0.3A DCR-0.7Ω CH0402 RO	5	MURATA	BLM15HB121SN1D	B900 B901 B902 B903 FB1400
52	CHIP COMMON MODE CHOKE COIL CH0805 RO	2	MURATA	DLW21SN900SQ2L	U700 U702
53	MOSFET NCH 20V 0.7A 0.3R@2.5V DFN1006 RO	1	WILLSEMI	WNM2046-3/TR	Q700
54	TVS 5V 15PF SOD-923 RO	4	ON	ESD9B5.0ST5G	D1100 D1101 D1102 D1103
55	TVS 15V 1200pF SOD-123FL RO	1	PRISEMI	PTVSHC1TF15VU	D201
56	UNI-TVS 7.0V 720PF DFN1610-2L RO	1	WAYON	WS07DP	D701
57	DIODE,SOD-523,SCHOTTKY RO	1	LRC	LRB521S-40T1G	D700
58	TVS 5V 0.5PF SOD-923 RO	17	ON	ESD9L5.0ST5G	TVS500 TVS600 TVS601 TVS602 TVS603 TVS604 TVS605 TVS606 TVS607 TVS700 TVS701 TVS702 TVS703 TVS704 TVS705 TVS706 TVS707
59	LED GREEN TOP 20MA@3.4V CH0603 RO	1	LITEON	LTST-C193TGKT-5A	D1500
60	LED BLUE TOP 5mA@2.8V VR/5V CH0603 RO	2	LITEON	LTST-C193TBKT-5A	D500 D501
61	CP2105-F01-GM RO	1	SILICON LABS	CP2105-F01-GMR	U701
62	LDO,SGM2036-3.0,3.0V,300MA,UTDFN1×1 RO	1	SGMICRO	SGM2036-3.0YUDH4G/TR	U801
63	IC,LDO 1.8V,300MA,UTDFN-1.0×1.0-4L RO	1	SGMICRO	SGM2036-1.8YUDH4G/TR	U800
64	DCDC VIN 2.5-5.5V ADJ 2A TDFN RO	1	SGMICRO	SGM6014-ADJYTD10G/TR	U300
65	LDO,SGM2036-1.8,1.8V,300MA,SOT-23-5 RO	1	SGMICRO	SGM2036-1.8YN5G/TR	U301
66	DC/DC 1.2V 1.5A QFN7 1.5*1.5*0.65MM RO	1	SILERGY	SY8842QWC	U302
67	DC/DC 8.8V-16V 0.6V-5.5V 20A 21PIN RO	1	JOULWATT	JWH5087QFNAG#TRPBF	U201
68	10/100/1000M/2.5G ETHERNET CONTROLLER RO	1	REALTEK	RTL8125B-CG	U1400
69	IC,ALC5616,AUDIO CODEC,芯片 RO	1	REALTEK	ALC5616-CGT	U900
70	MMW ANT MODULE 16.8 × 16.8MM RO	2	QUALCOMM	QTM-547-1-LGA118D+S-**-01-	U1801 U1803
71	CRYSTAL,25MHZ,±30PPM 18PF,3.2*2.5*0.8 RO	1	TXC	7V25000011	Y1400
72	DC JACK 3PIN 35V 7A DIP RO	1	鑫相连	DCJ-030422065	J201
73	RJ45 5G BASE-T L=24MM 18PIN WITH LEDS RO	1	正谷	RJ45-114B4DZ-G020	J1500
74	CONN 4PIN PORTS DIP 11.65MMH RO	1	E-LINE	0139-320-442	J1100
75	轻触开关 RO	1	正谷	WT-1203	S500
76	M.2 PCIE KEY B 75PIN 0.5PITCH 4.2MMH RO	1	上海挚萃电子有限公司	APCI0105-P001A	J400
77	SIMC PLUG-IN FLIP 1.5MM RO	2	MUP	MUP-C792-3	J600 J601
78	拨动开关(DIP,非高温料) RO	2	正谷	WNS-12D0702(拨柄高度2MM)	S501 S502
79	RFC 17.0*13.8MM RO	6	电连	818018727	J1601 J1602 J1603 J1606 J1607 J1610
80	6PIN耳机插座SMT(斜口),12.0*8.4*4.55 RO	1	华旺	CHK-JACK0130-A	J1101
81	USBC 5PIN 2.5MMH SMT+DIP RO	1	挚萃	236F205-0N001D-R	J701
82	USB3.0 A TYPE 9PIN DIP90°WITH 7 LEGS RO	1	祥龙	1UBA032F09R7T-00	J700
83	RF CONN 2PIN 2.0MM*2.0MM* 0.63MM RO	4	IPEX	20981-001E-01	J1801 J1802 J1805 J1806
84	RFC 2.0*2.0*0.6MM RO	6	I-PEX	20449-001E-03	J1604 J1605 J1608 J1609 J1611 J1612