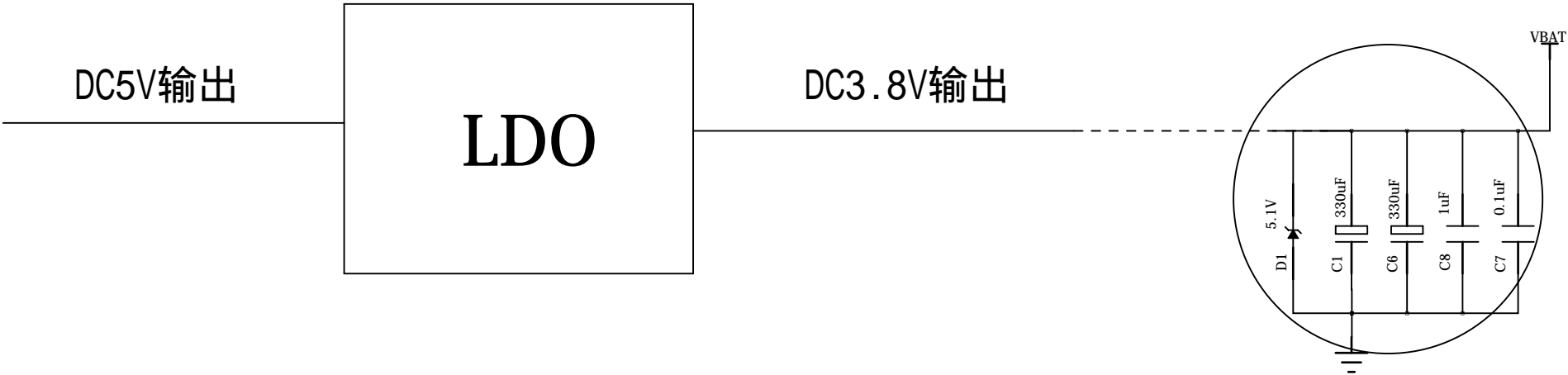


POWER

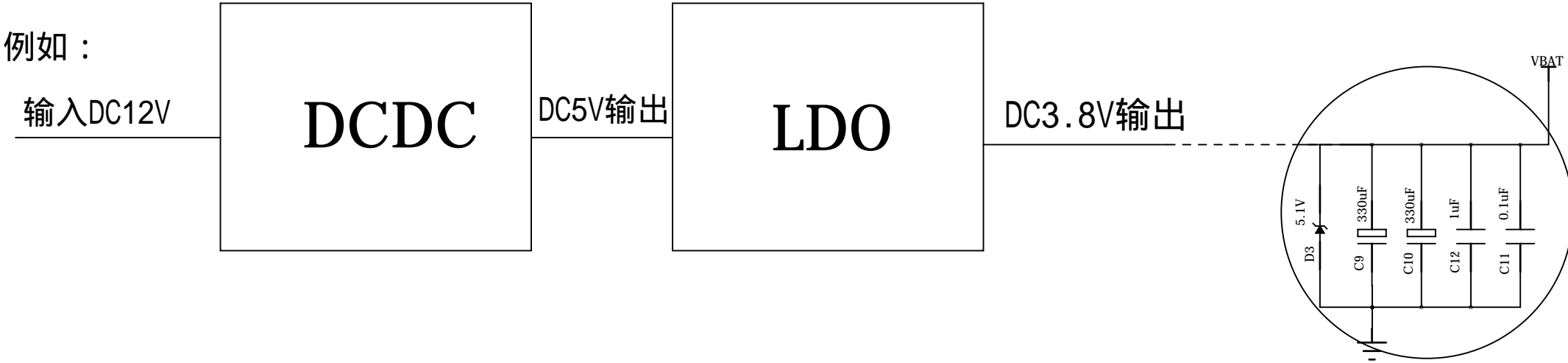
压差较小的话建议使用LDO

5V转3.8V



- 1、模组供电范围3.3V-4.6V，典型值3.8V,电源尽量能够提供2A电流
- 2、圆圈标记器件靠近模组VBAT脚放置
- 3、建议增加稳压二极管，提高抗浪涌能力
- 4、电源layout走线尽量短且粗

若输入输出压差较大，建议先使用DCDC降压到5V,再使用LDO

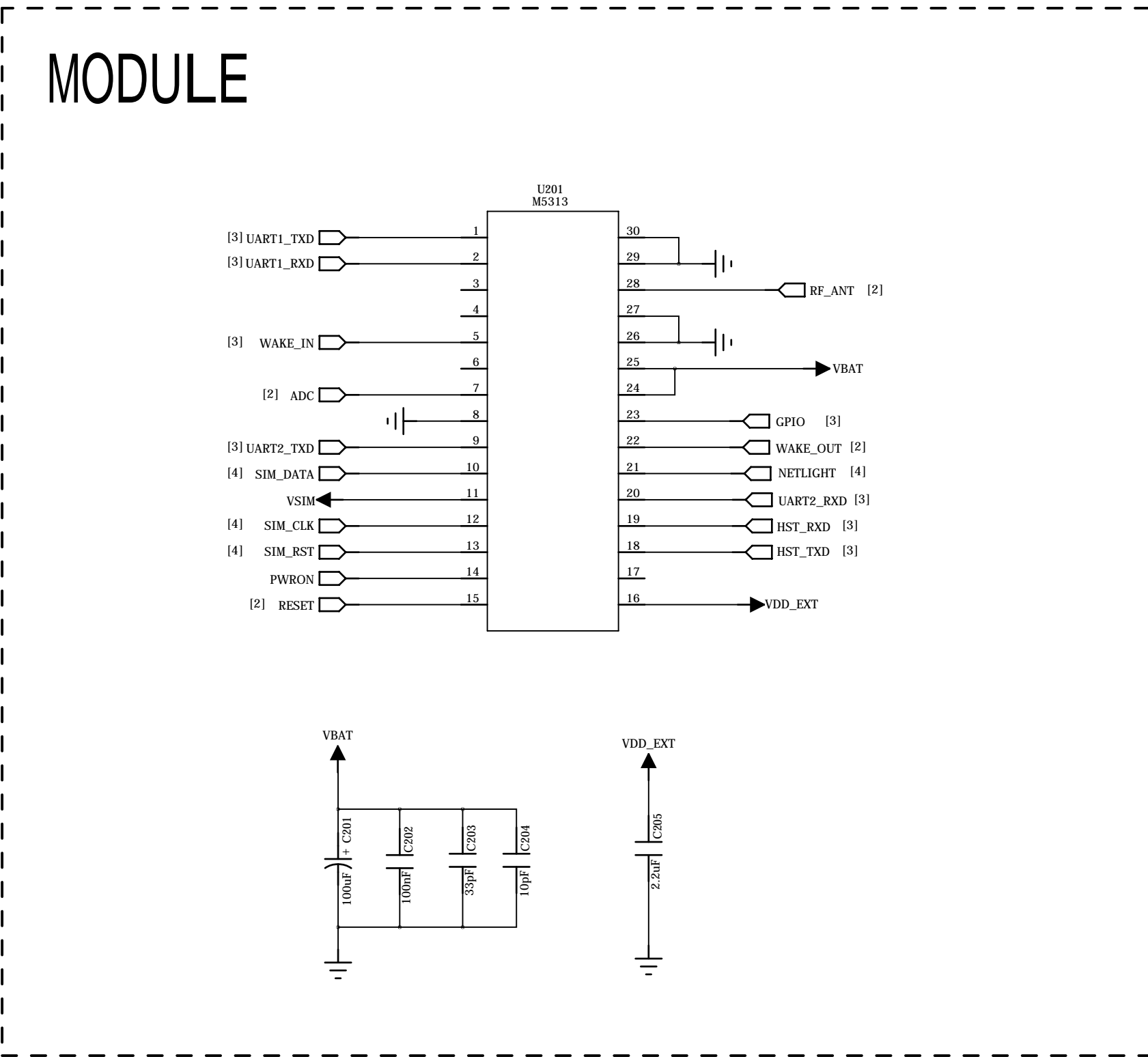
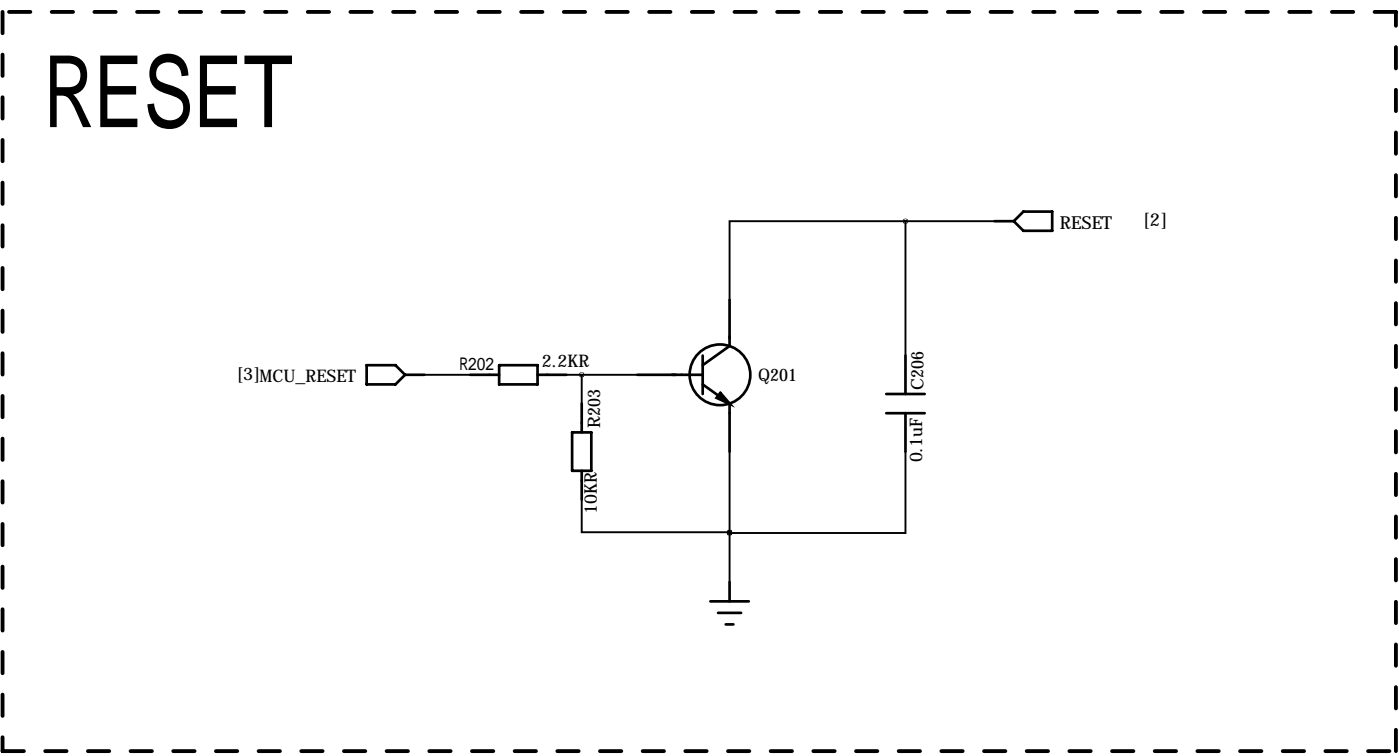


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DRAWN:	DATED:	TITLE:		PROJECT	
Fu Qiang	2018.12.10	1. POWER		M5313参考设计	
CHECKED:	DATED:	SIZE:	REV:		SHEET:
<Checked By>	<Checked Date>	A2	V2.0		1of 5

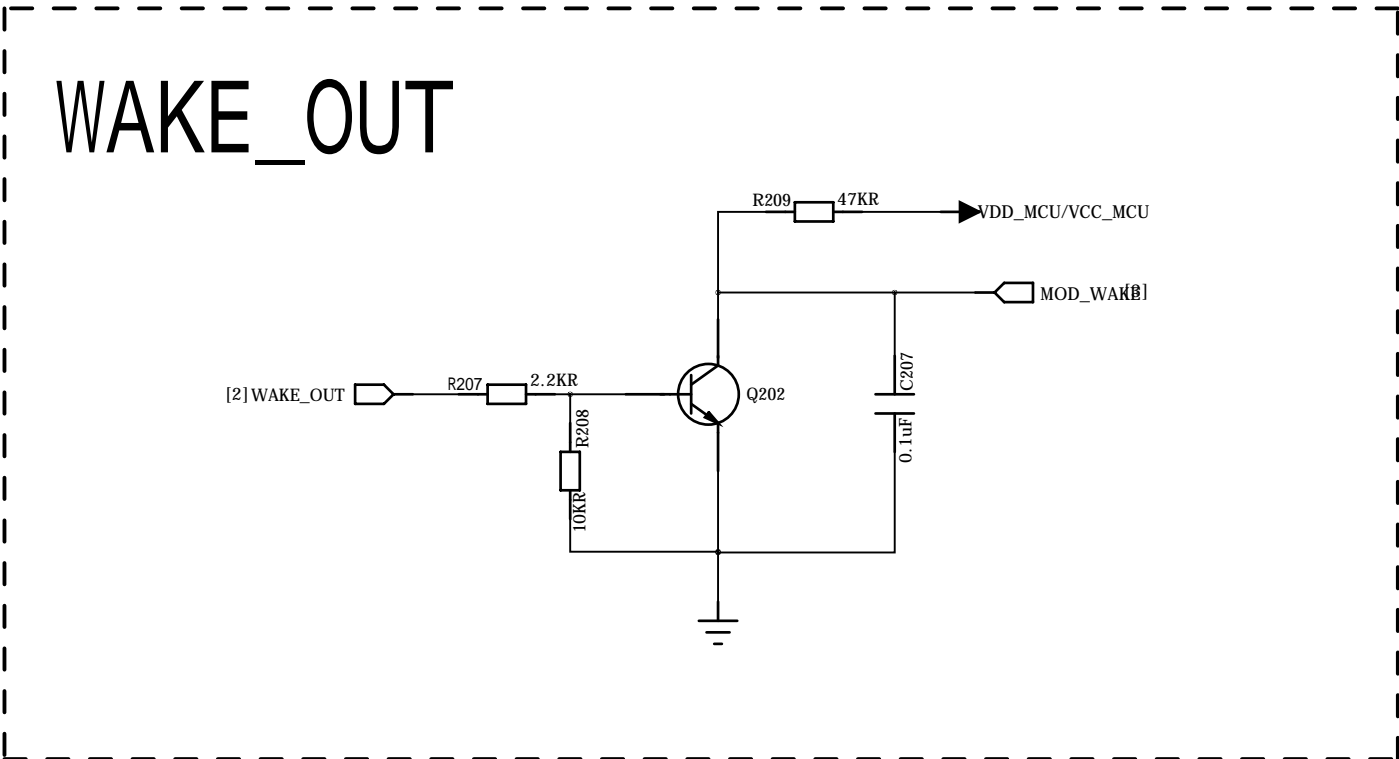
D

D



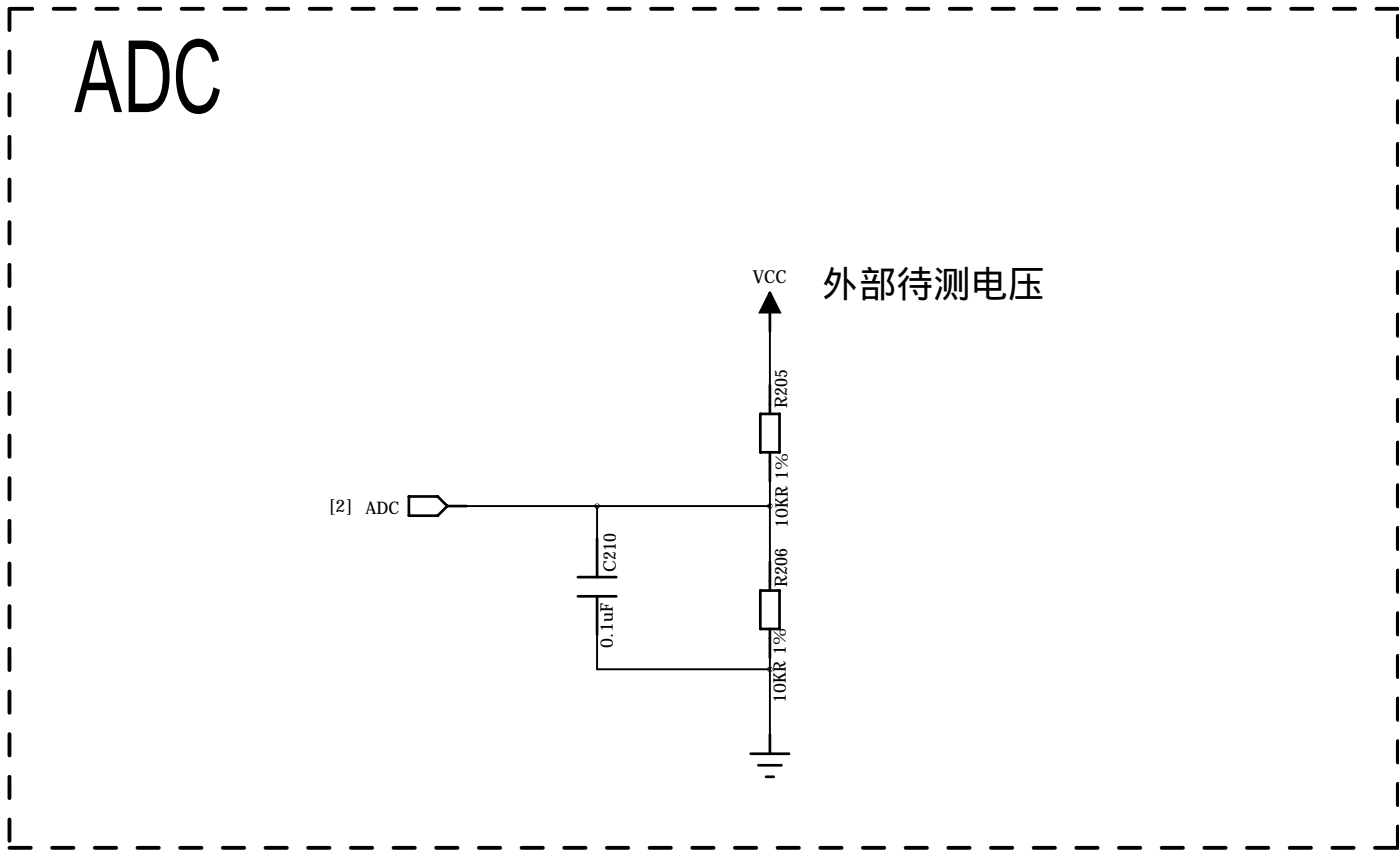
C

C



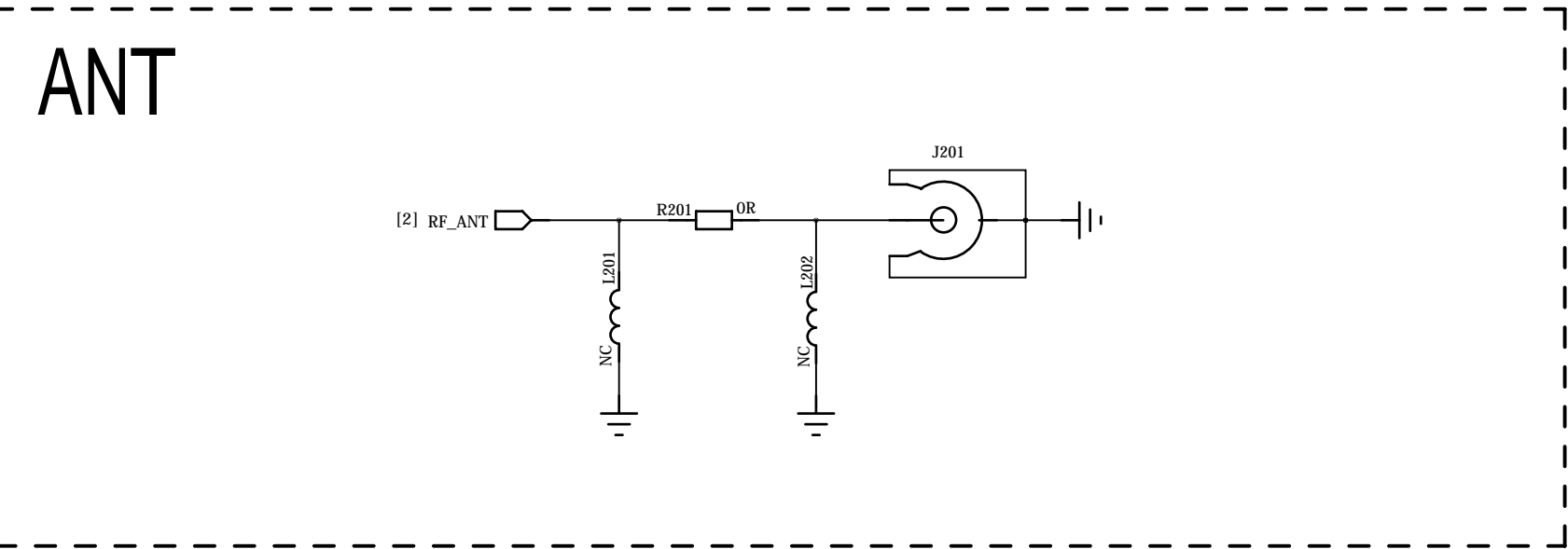
B

B



A

A

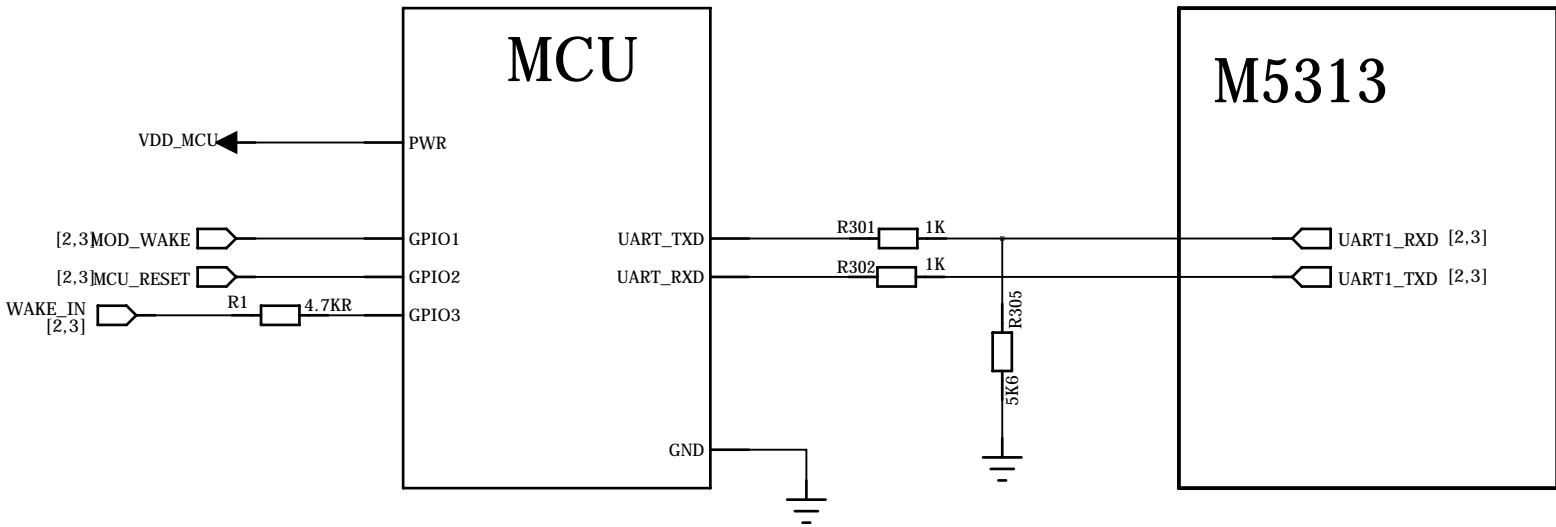


D

D

3.3V MCU

VDD_MCU是单片机的IO电压，VDD_EXT是模块输出的IO电压



UART1用做AT或者数据通信，默认波特率57600

模组串口为2.8V电平，注意电平匹配
3.3V采用电阻分压，5V采用三极管或者电平芯片转换

模块处于关机或者PSM状态下必须设置外部MCU串口为高阻态

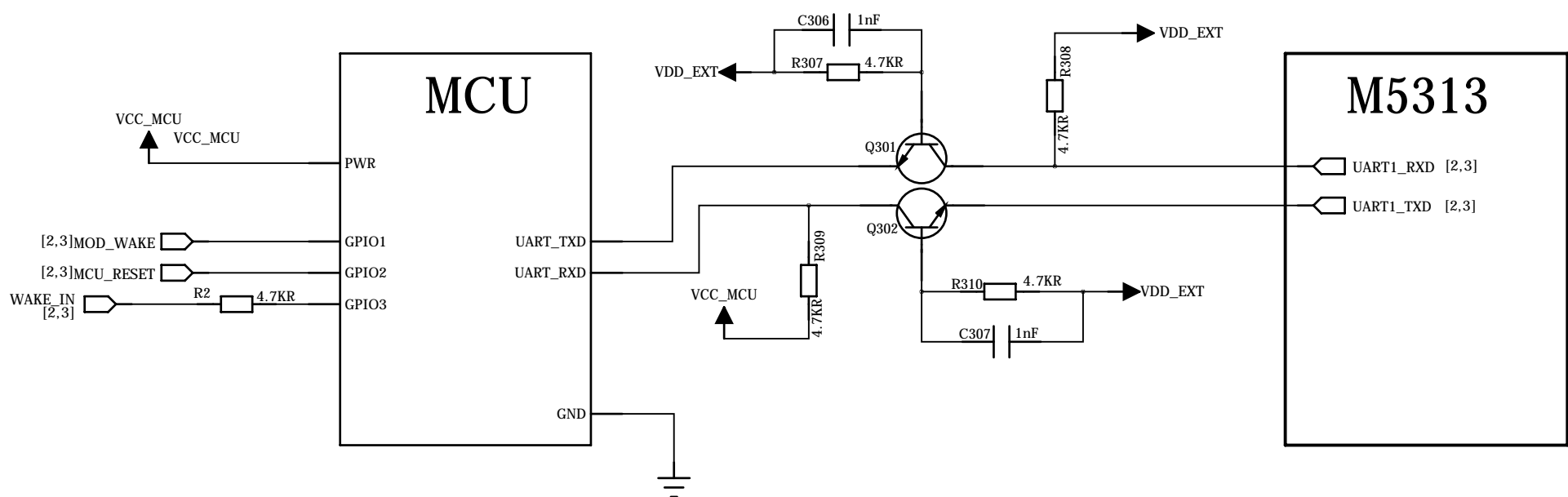
HST_UART留测试点，用于debug和固件下载

C

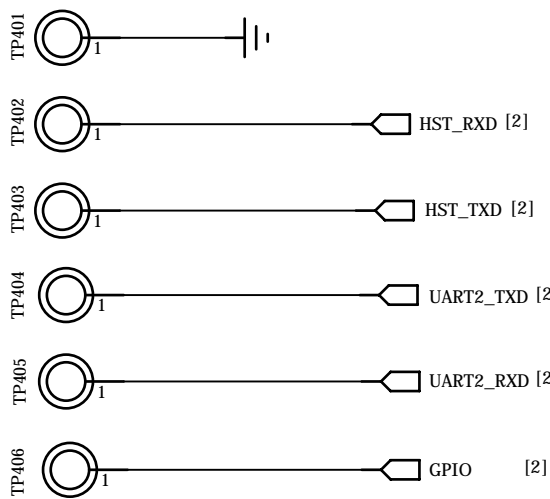
C

5V MCU

VCC_MCU是单片机的IO电压，VDD_EXT是模块输出的IO电压



TEST POINT



B

B

A

A

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DRAWN:	Fu Qiang	DATED:	2018.12.10	TITLE:	3. UART	PROJECT:	M5313参考设计
CHECKED:	<Checked By>	DATED:	<Checked Date>	SIZE:	A2	REV:	V2.0
						SHEET:	3 of 5

6

5

4

3

2

1

D

O

C

2

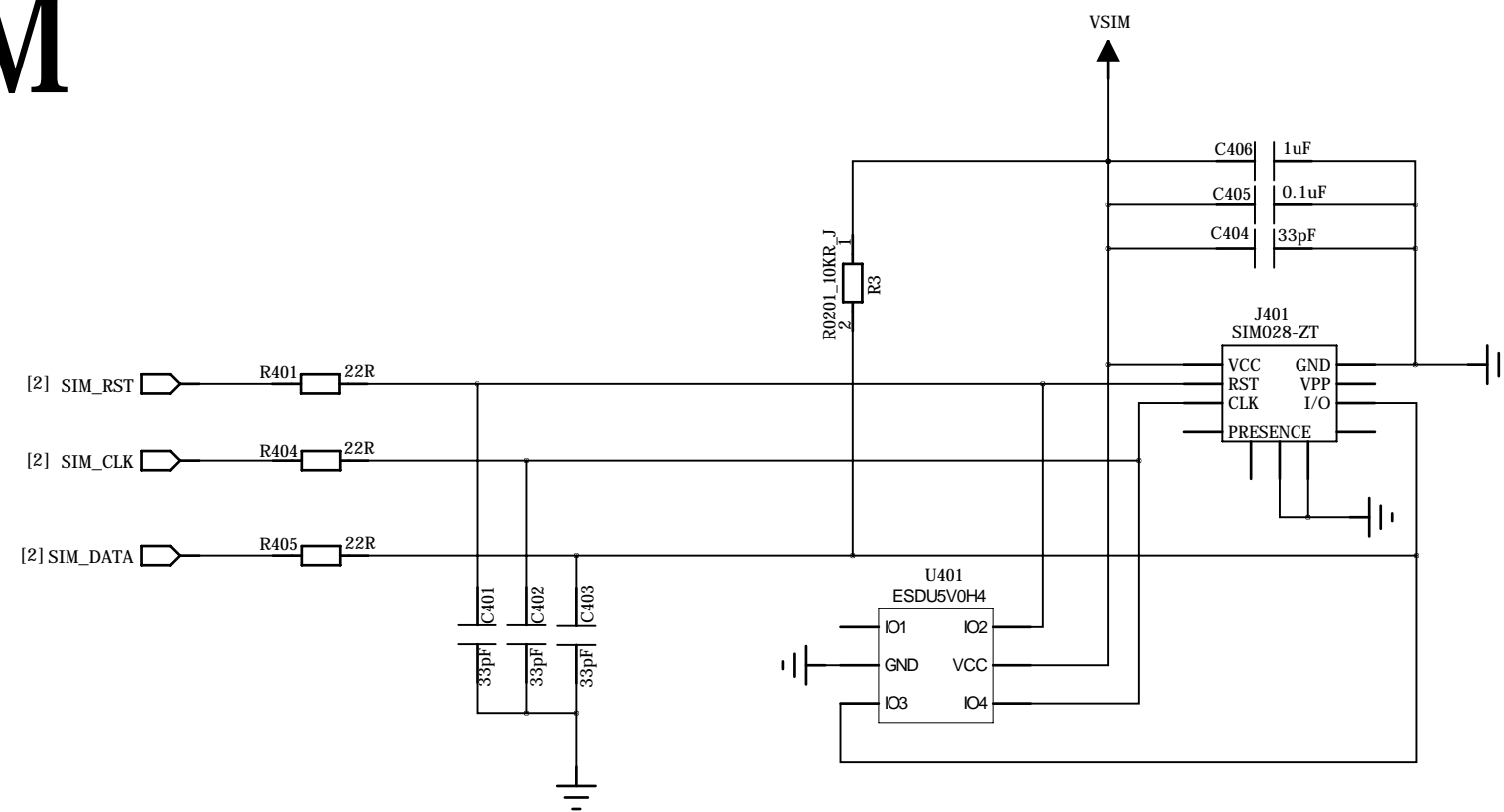
B

3

A

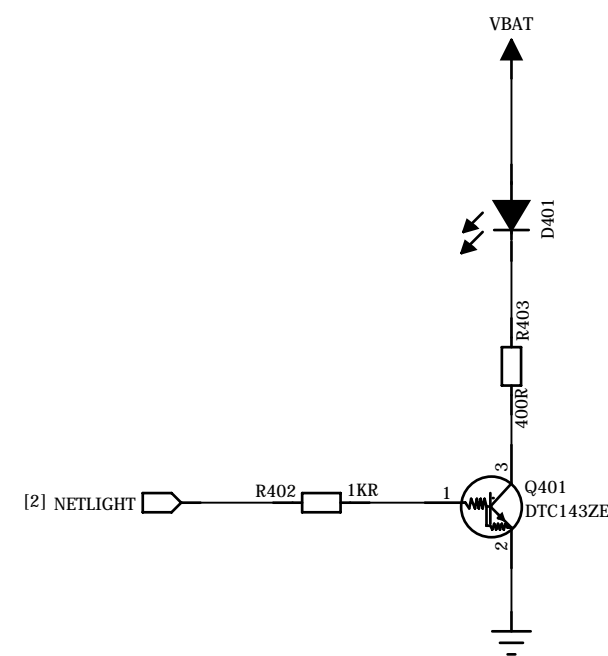
A

SIM



LED

NETLIGHT只是普通的IO口，无法直接驱动LED，需要加三极管驱动LED



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DRAWN: Fu Qiang	DATED: 2018.12.10	TITLE: 4. SIM&LED		PROJECT M5313参考设计
CHECKED: <Checked By>	DATED: <Checked Date>	SIZE: A2	REV: V2.0	SHEET: 4 of 5

6

5

4

3

2

1

6		5		4		3		2		1		
D	版本		修订记录				作者		时间		D	
	V001		新建				梁小华		2018.07.04			
	V002		调整电源参考电路 MCU输出与模组输入WAKE_IN管脚串接4.7KR电阻 SIM_DATA增加上拉10KR电阻				傅强		2018.12.10			
C												C
B												B
A												A
6		5		4		3		2		1		