

# 野火\_F407霸天虎\_原理图\_V2.0

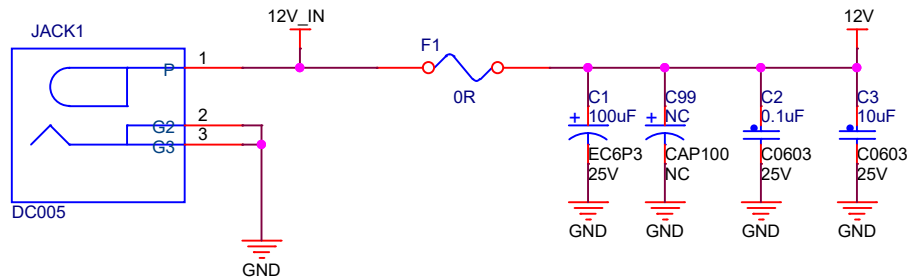
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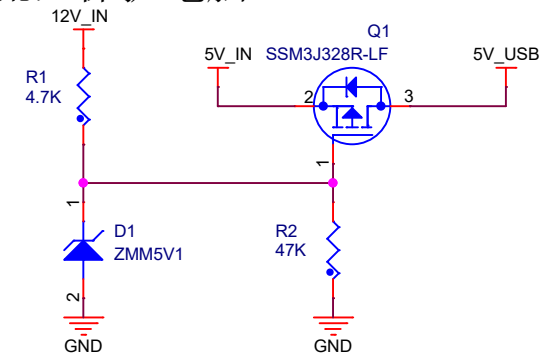
历史版本

版本号	日期	设计	描述
V1.0	2017-12-1	cancore	初始版本
V2.0	2018-12-22	cancore	更新结构，增加一个RS232串口，增加一个EBF Module接口
V2.1	2024-08-26	LPC	更新 CAN 485 232 的替代料

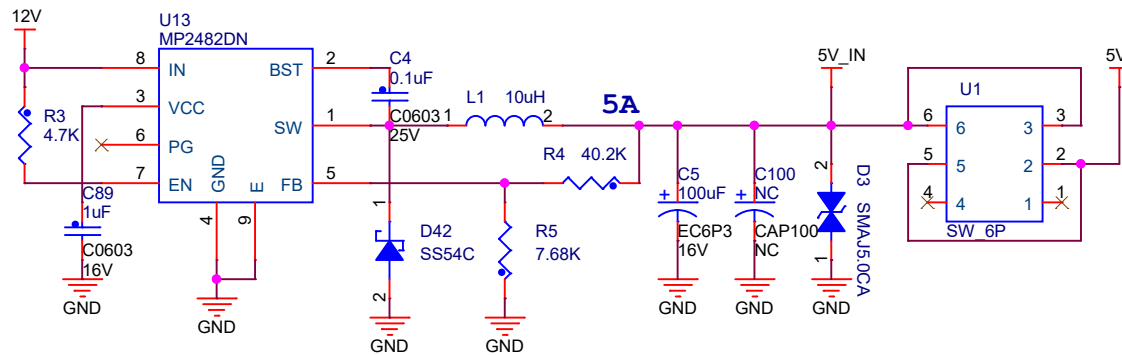
## DC IN : 6V~12V



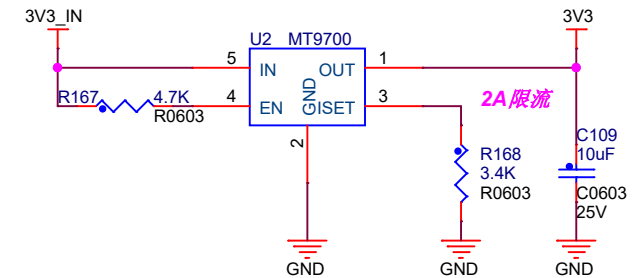
外部电源供电时断开USB供电，  
防止灌电流，保护电脑USB口



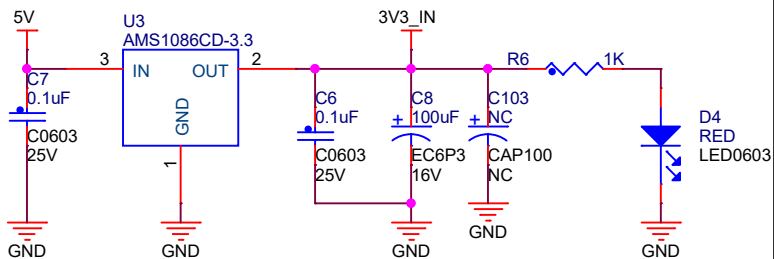
## DC/DC 5V



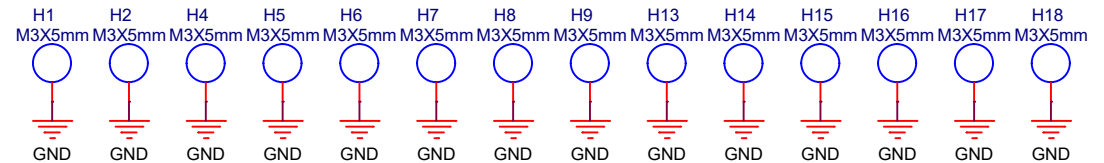
## 3.3v 输出过流保护



## LDO 3.3V

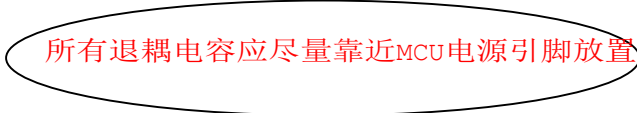


## 定位孔



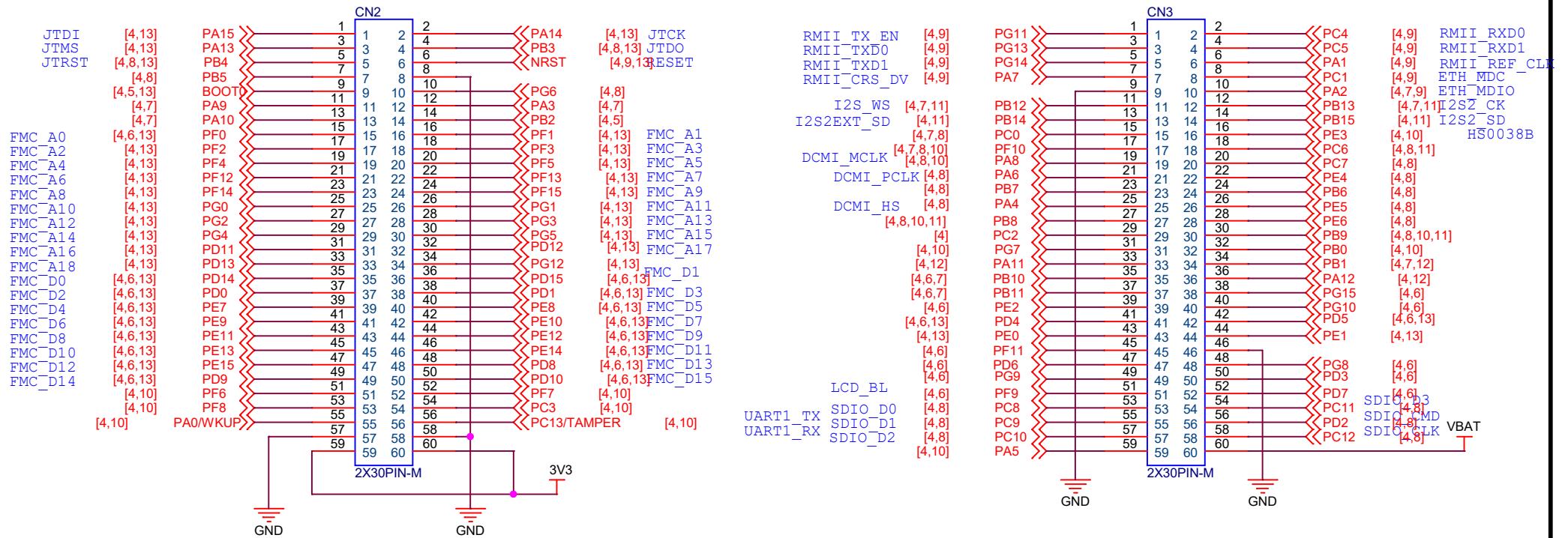
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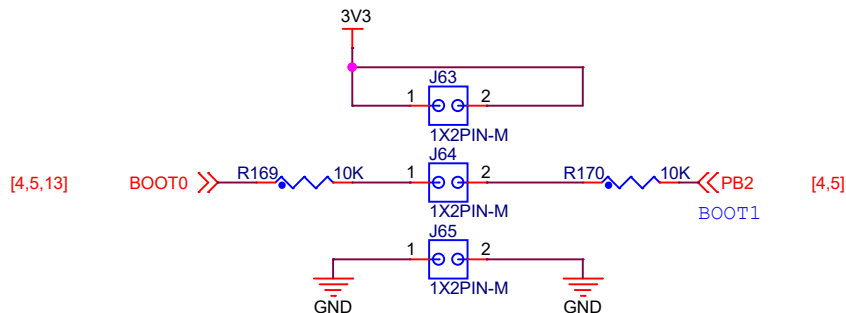


## 引出IO口

GPIO引出110个，除了晶振占用4个IO其他全部引出。



## 设置启动模式

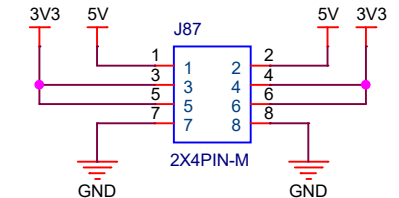


## F407 BOOT设置

BOOT0	BOOT1	启动方式
0	X	用户闪存
1	0	系统存储器/ISP
1	1	内嵌SRAM

默认配置是用户闪存（即内部Flash）

## 引出电源



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## D

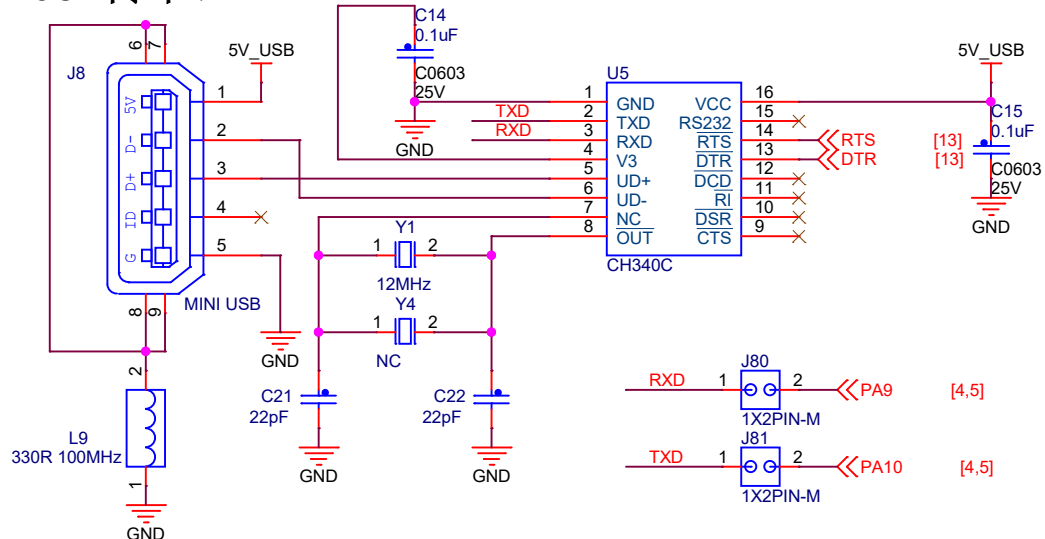


# B

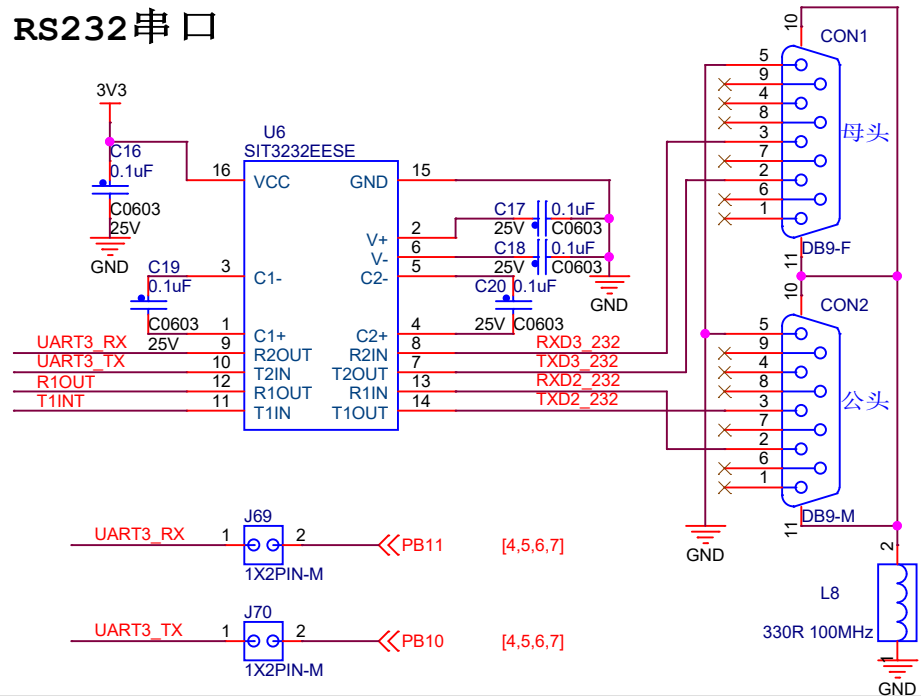


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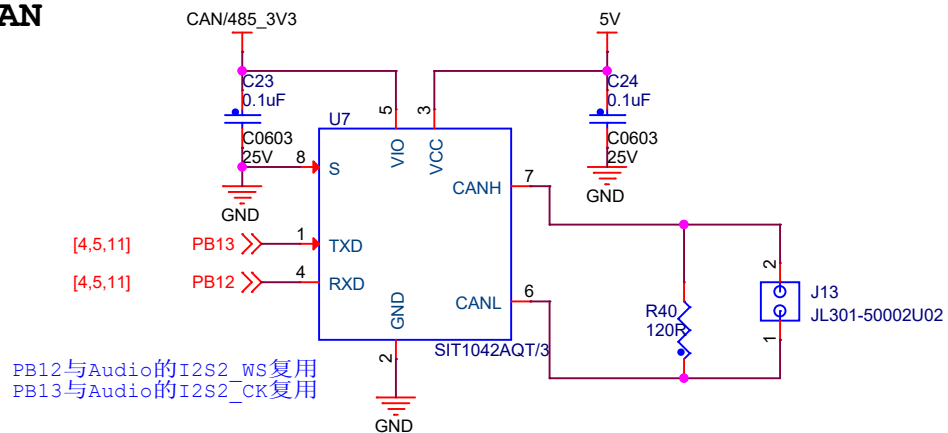
## USB转串口



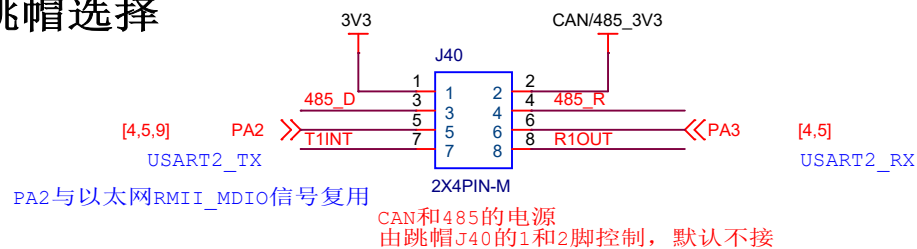
## RS232串口



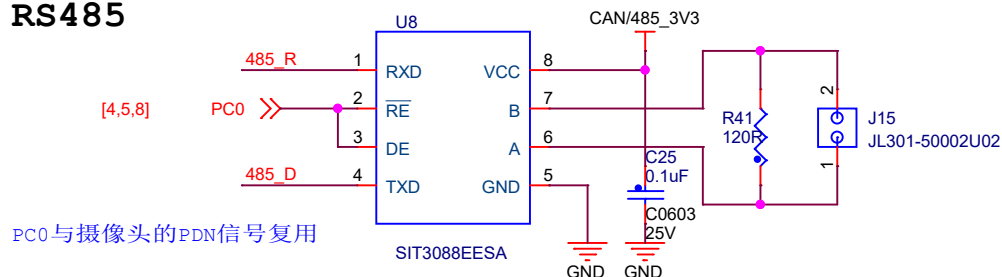
## CAN



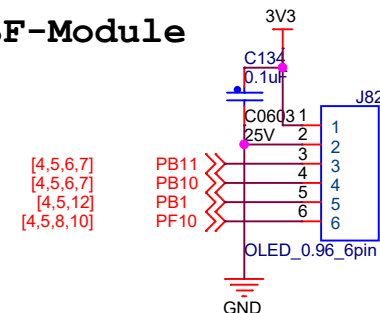
## 跳帽选择



## RS485



## EBF-Module



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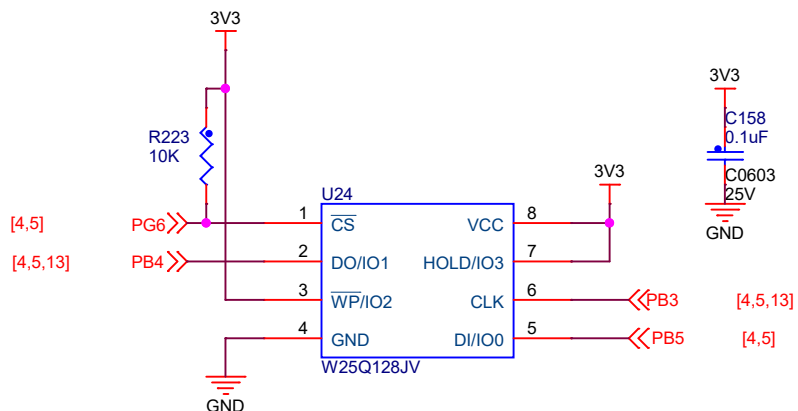
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Size A4 Document Number UART/CAN/RS232/RS485 Rev V2.0

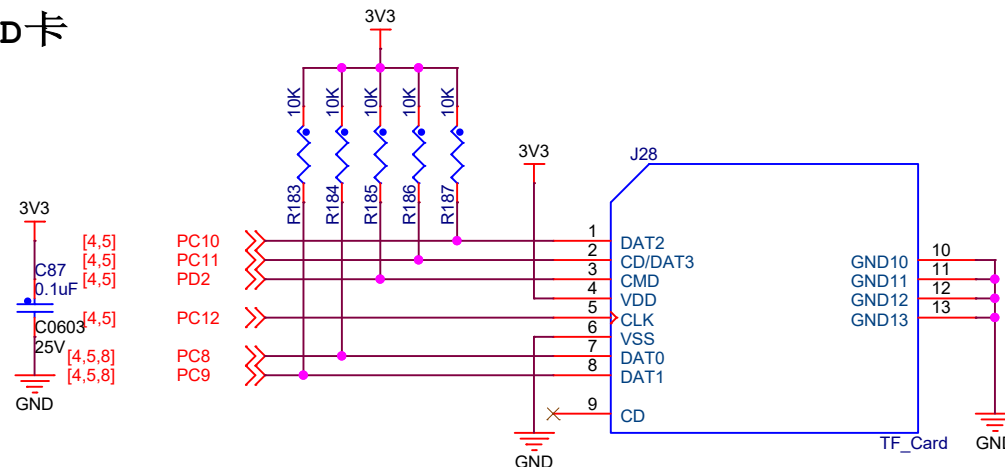
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## SPI\_FLASH

容量：16M字节

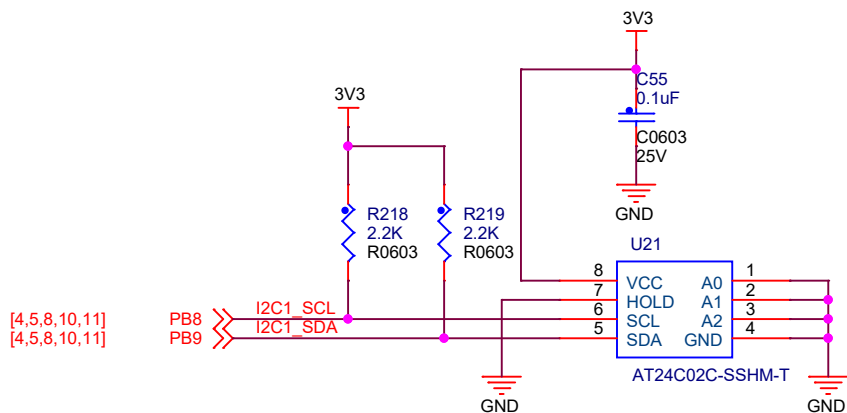


## SD卡

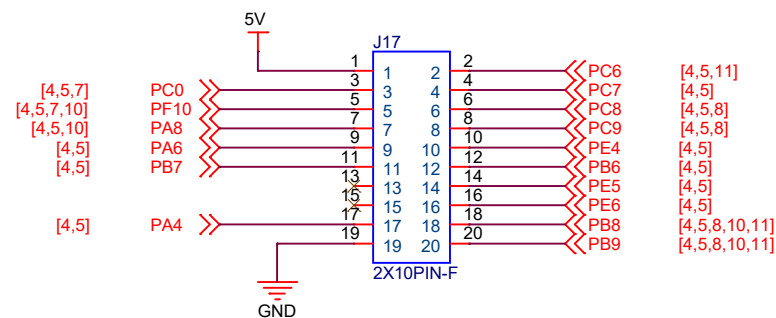


## EEPROM

容量：256字节



## 摄像头接口



PC8与SDIO的SDIO\_D0信号复用  
PC9与SDIO的SDIO\_D1信号复用  
PF10与MPU6050的INT信号复用  
PC0与RS485的RE信号复用

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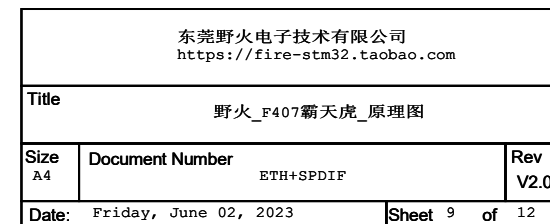
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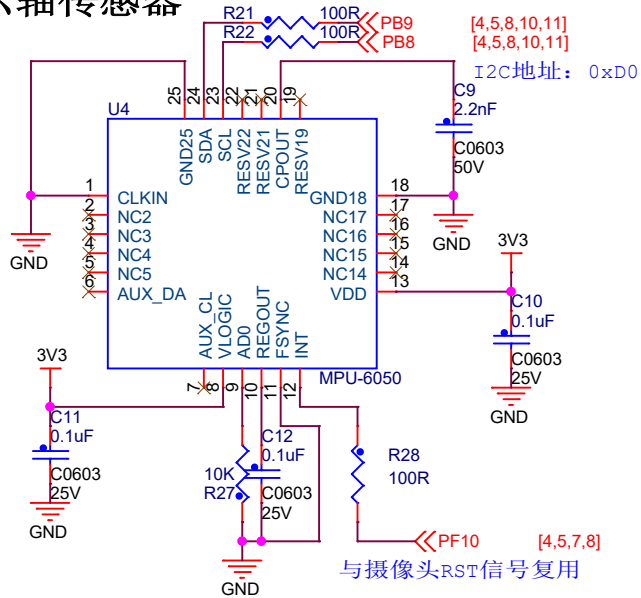
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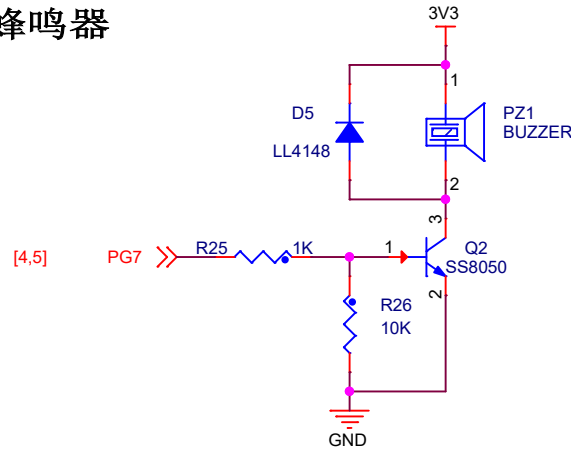
# A



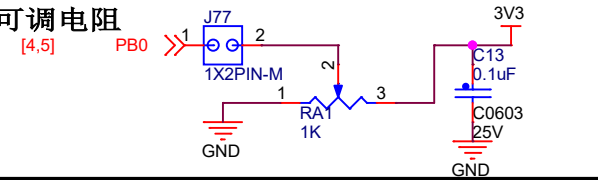
## 六轴传感器



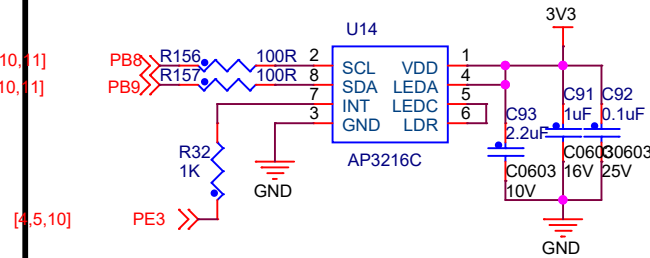
## 蜂鸣器



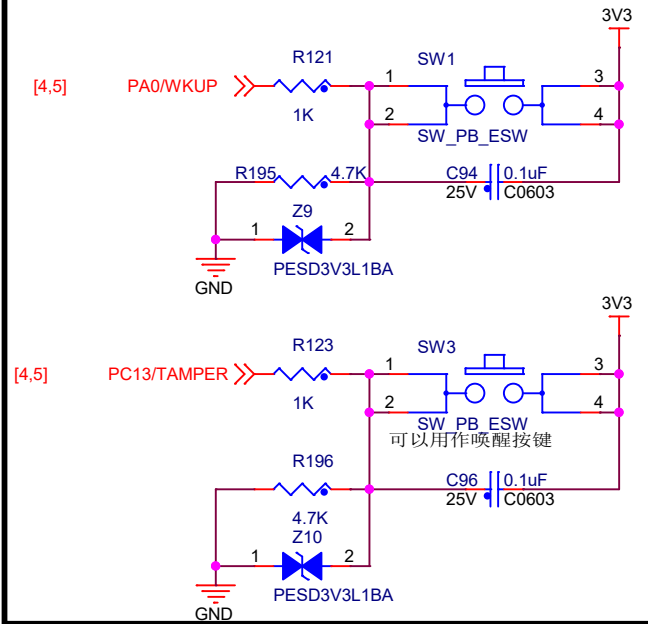
## 可调电阻



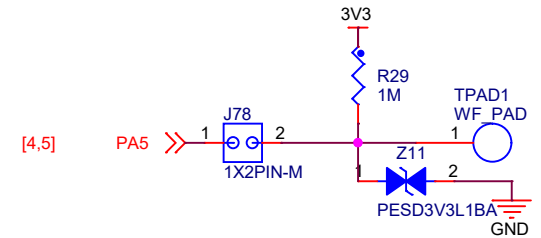
## ALS+PS+IRLED (三合一)



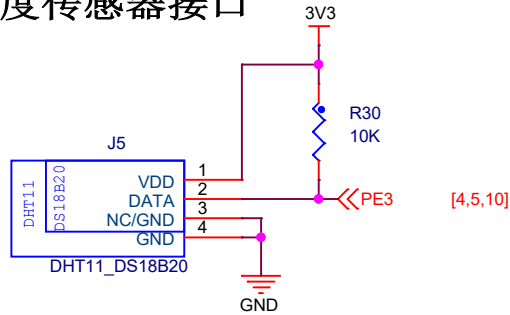
## 按键



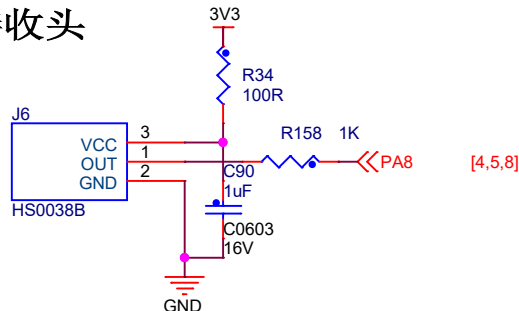
## 触摸按键



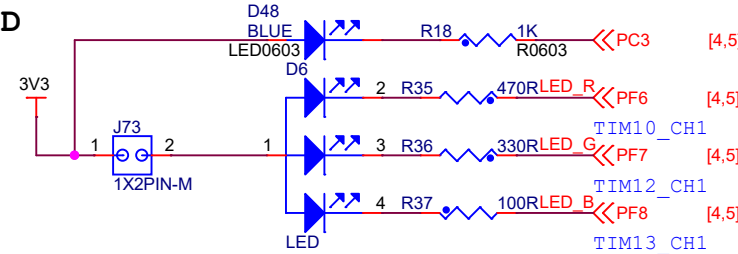
## 温湿度传感器接口



## 红外接收头



## LED



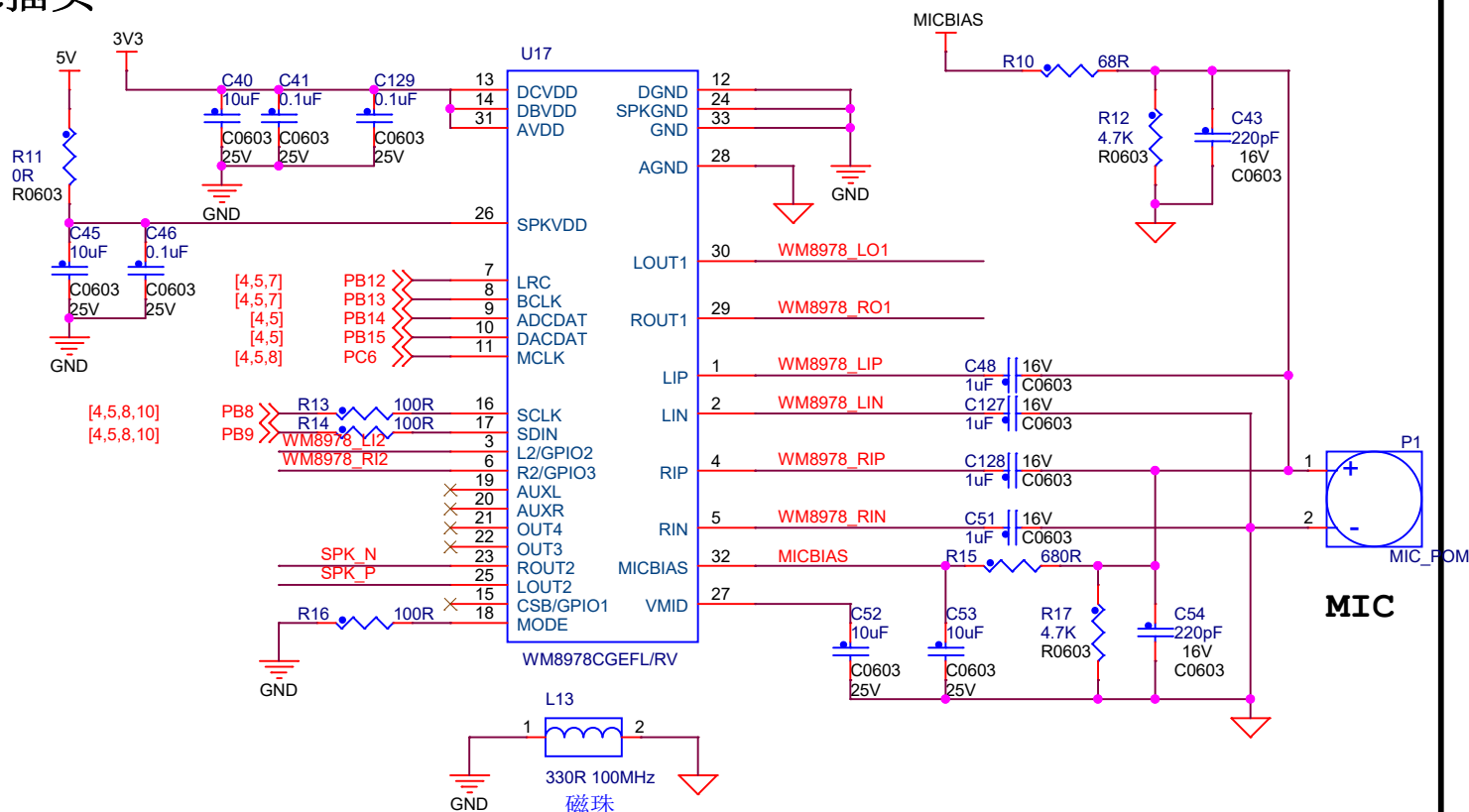
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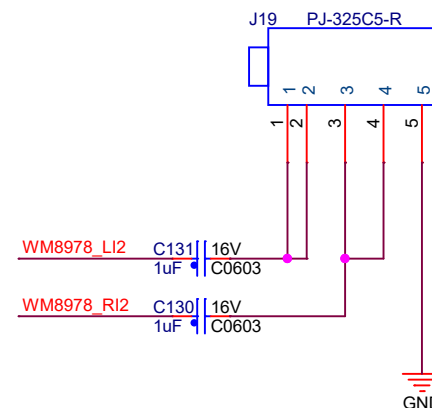
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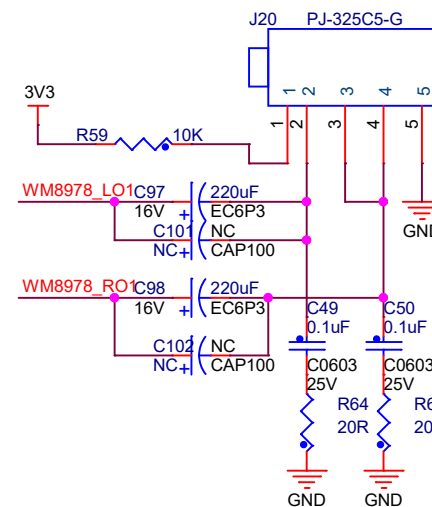
## MIC插头



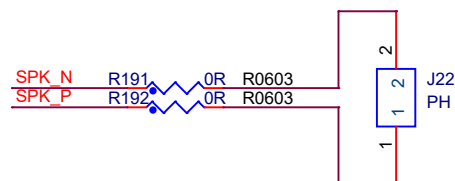
## 音频输入



## 耳机插座



## 喇叭插座



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