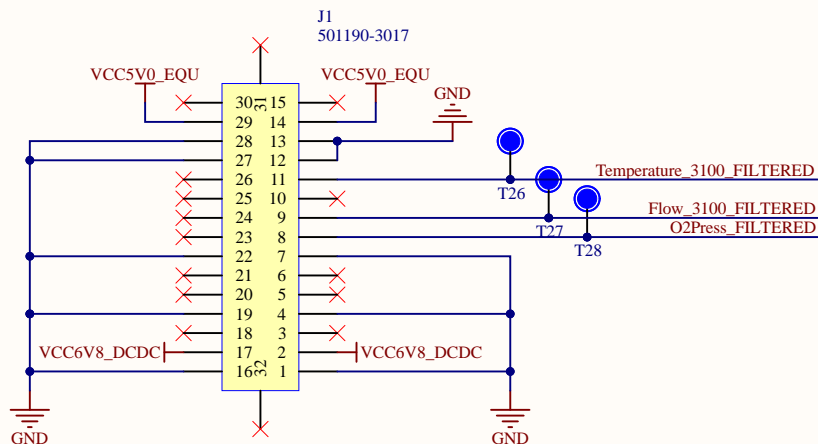
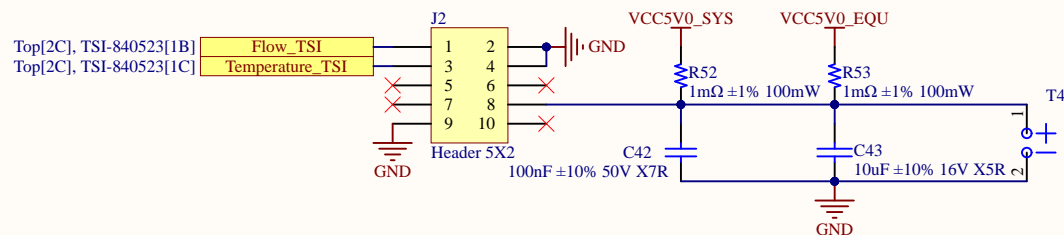


Title		
Size	Number	Revision
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File:	C:\Users\...\Top.SchDoc	Drawn By:

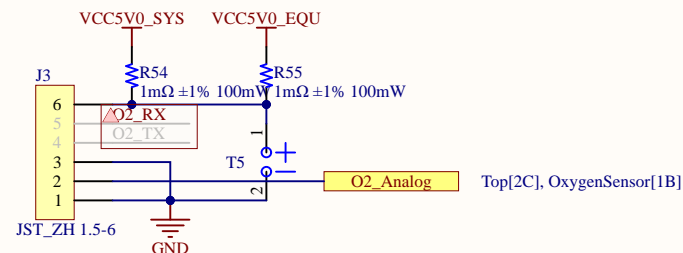
# 接进气模块电路板



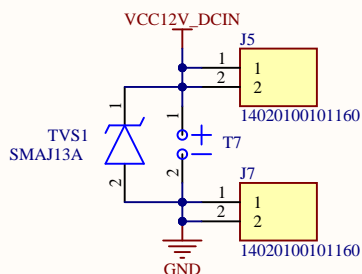
# 吸气流量传感器 TSI-840523



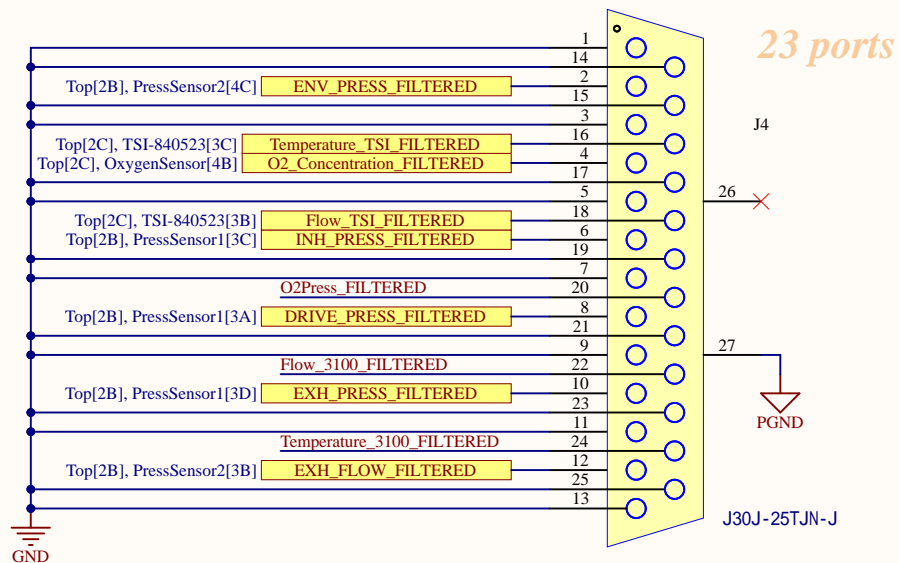
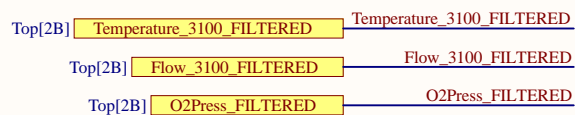
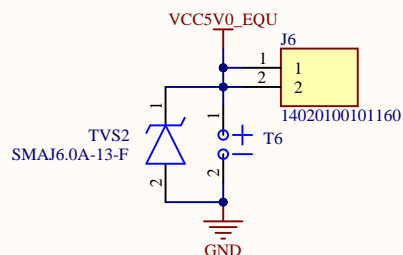
# 氧浓度传感器



# 12V IN

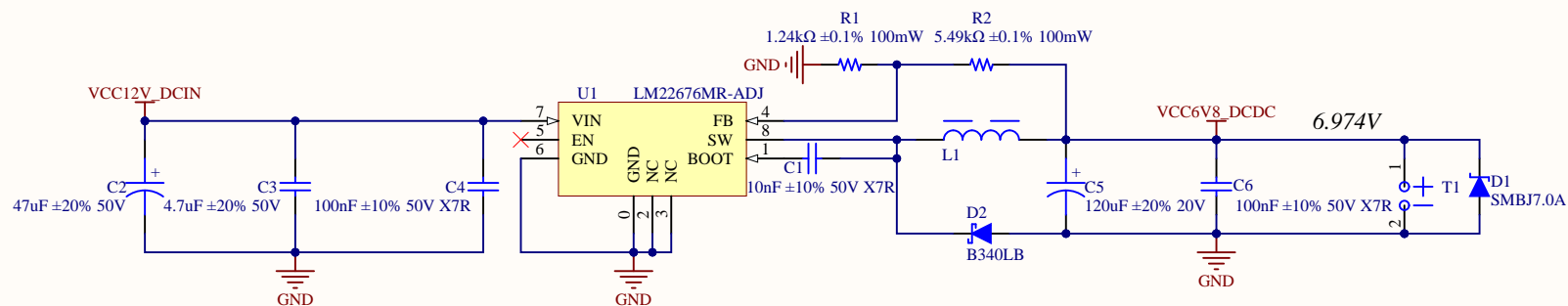


# 5V IN

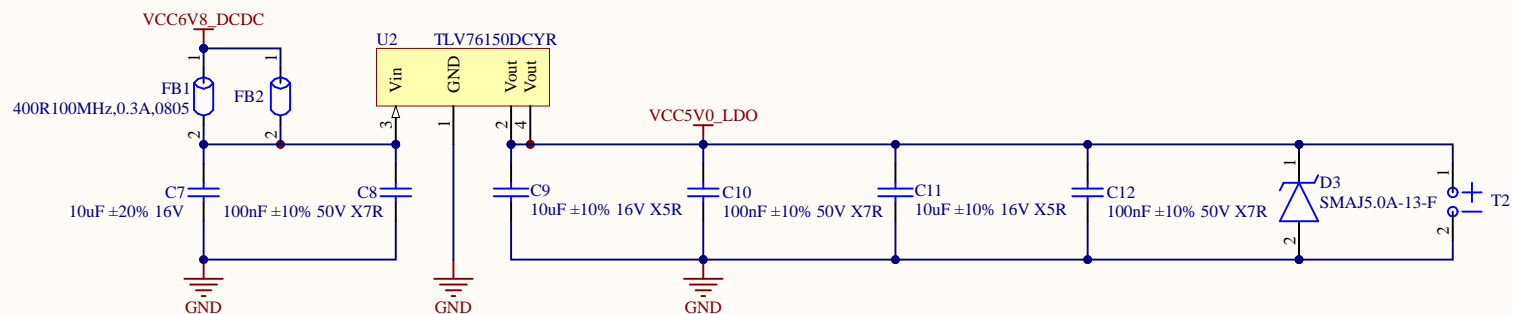


Title		
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File:	C:\Users\...\IO.SchDoc	Drawn By:

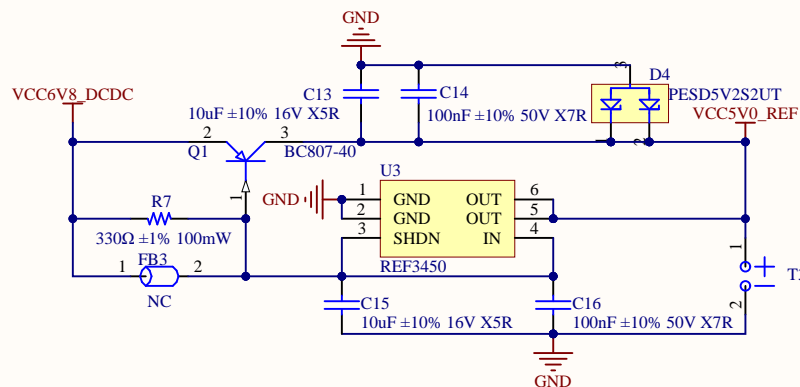
## DC/DC(12转6.8V)



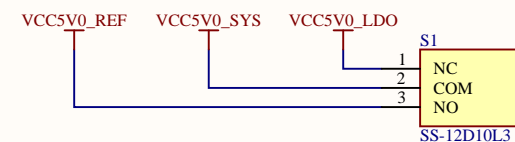
## LDO(6.8转5V)



## Vref(6.8转5V)



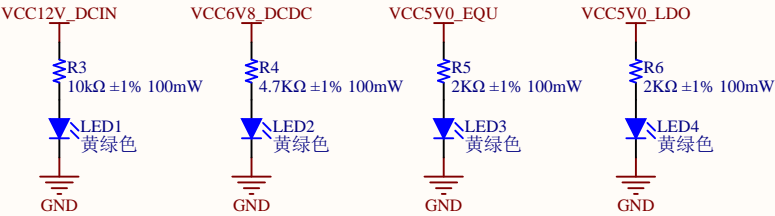
## 两种5V供电选择



有没有必要用单刀双掷切换还是用焊盘

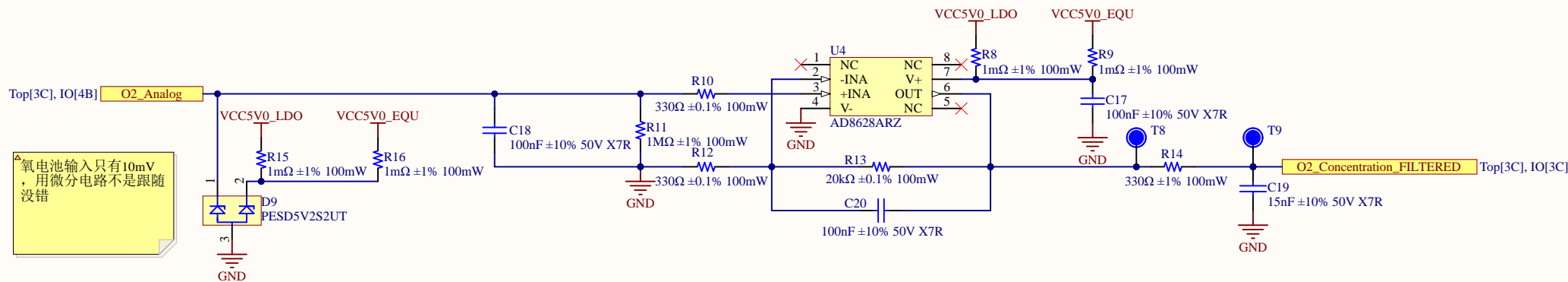
Title		
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电源指示灯



Title		
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A4		
Date:	9/29/2024	Sheet of
File:	C:\Users\...\LED.SchDoc	Drawn By:

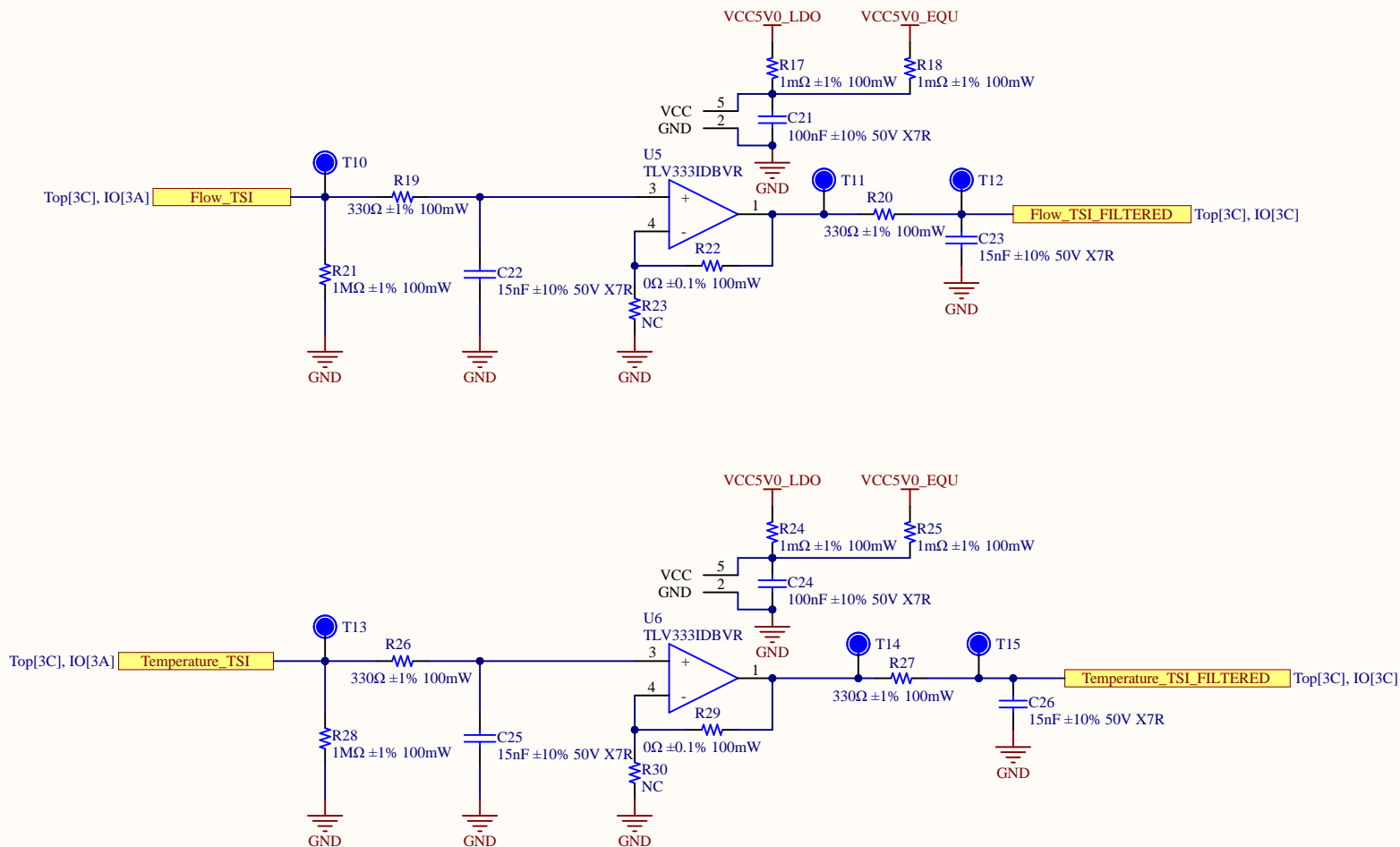
# 氧浓度传感器（化学）



Title		
Size	Number	Revision
A4		
Date:	9/29/2024	Sheet of
File:	C:\Users\...\OxygenSensor.SchDoc	Drawn By:

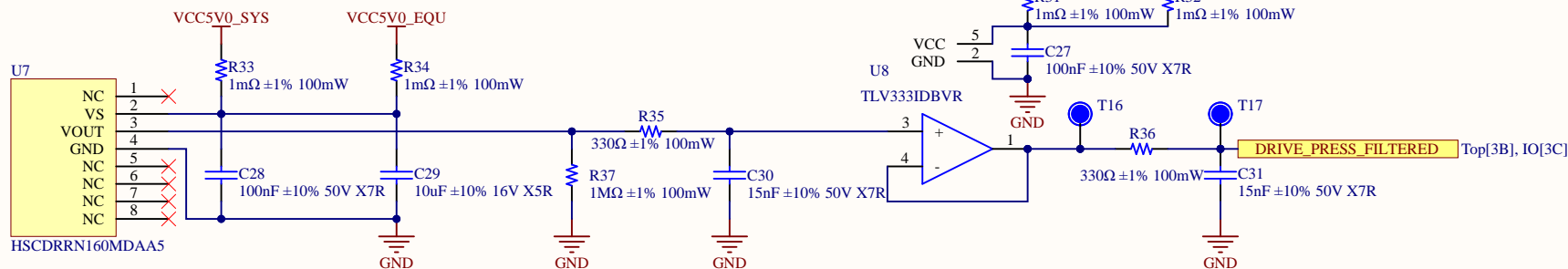
# 吸气流量传感器（主控+功能安全）

Is=162mA Io=?

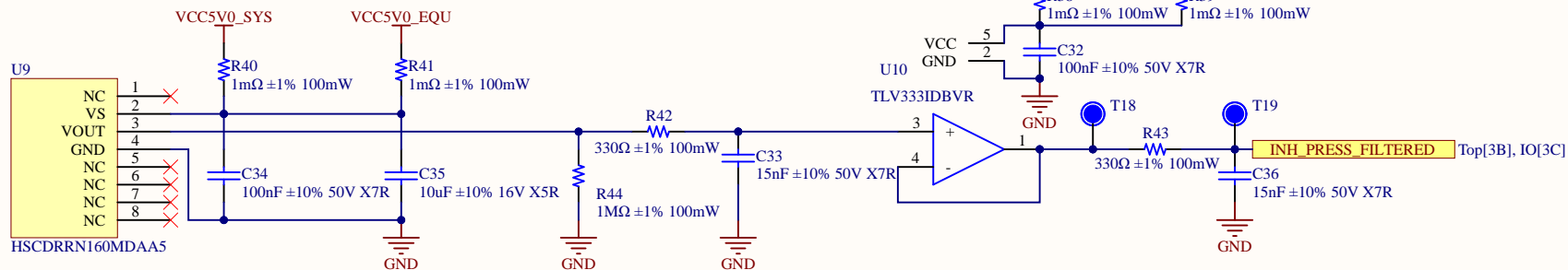


Title		
Size	Number	Revision
A4		
Date:	9/29/2024	Sheet of
File:	C:\Users\...\TSI-840523.SchDoc	Drawn By:

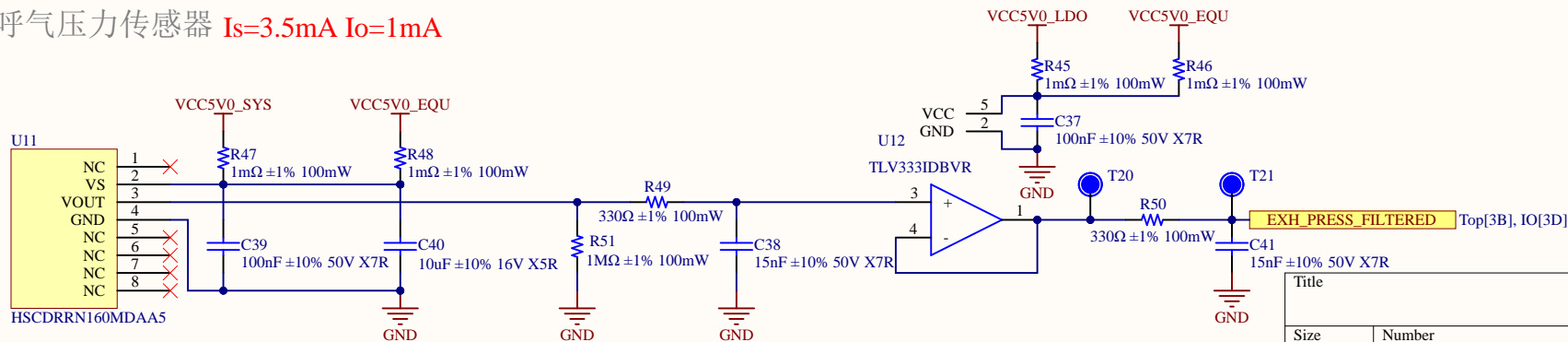
驱动压力传感器  $I_s=3.5mA$   $I_o=1mA$



吸气压力传感器  $I_s=3.5mA$   $I_o=1mA$



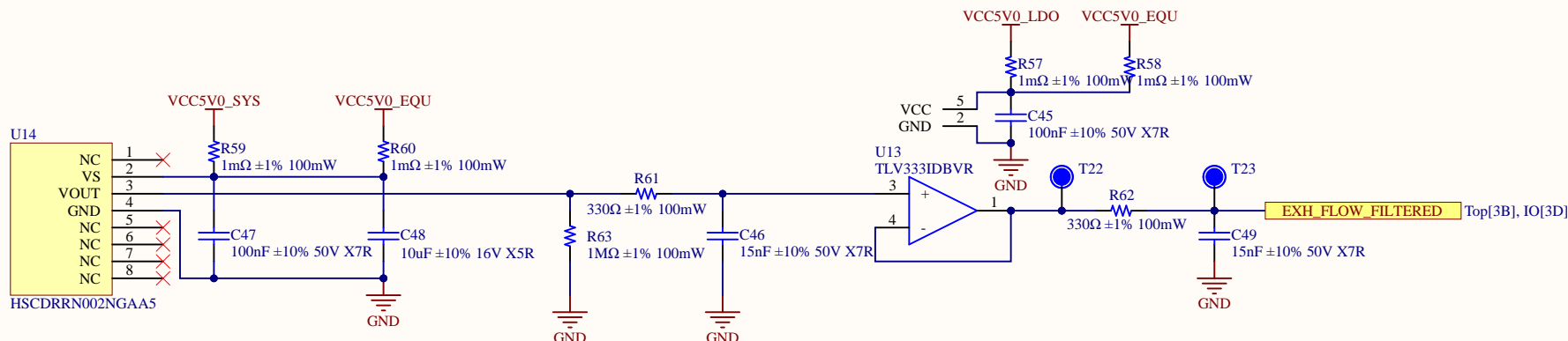
呼气压力传感器  $I_s=3.5mA$   $I_o=1mA$



Title		
Size	Number	Revision
A4		
Date:	9/29/2024	Sheet of
File:	C:\Users\...\PressSensor1.SchDoc	Drawn By:

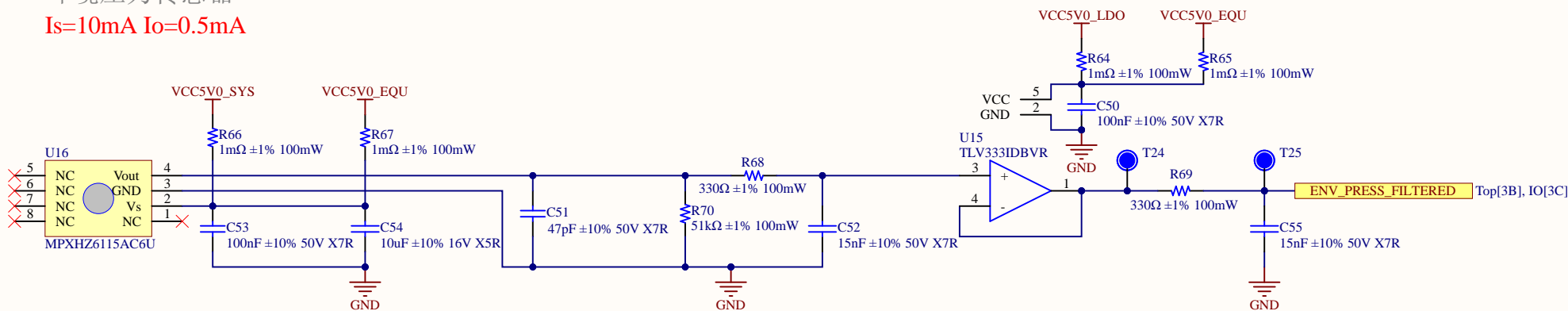
# 呼气流量传感器

$I_s=3.5mA$   $I_o=1mA$



# 环境压力传感器

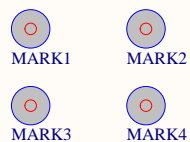
$I_s=10mA$   $I_o=0.5mA$



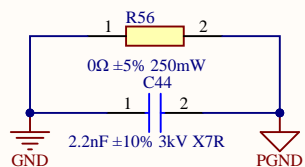
Title		
Size	Number	Revision
A4		
Date:	9/29/2024	Sheet of
File:	C:\Users\...\PressSensor2.SchDoc	Drawn By:



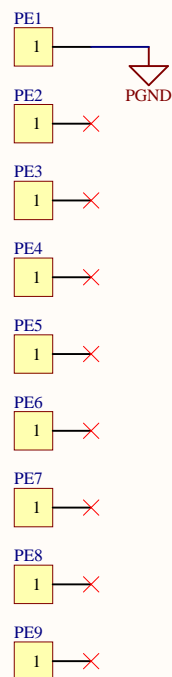
## 光学定位点



## 接地



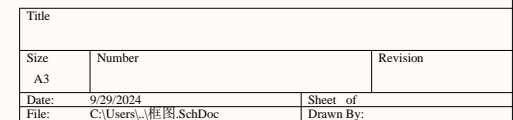
## M3固定孔

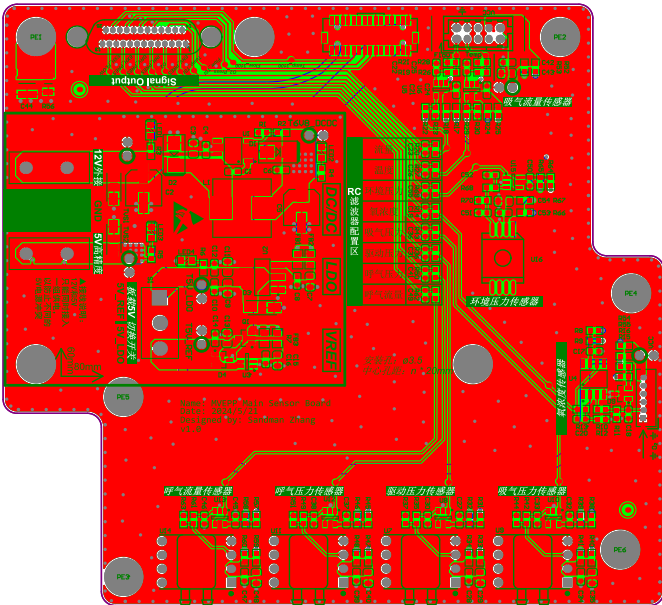


\* PGND  
如安装在金属底座上，各PGND通过金属螺丝、钣金共地；  
若安装在不导电底座上，则无需互联

Title		
Size	Number	Revision
A4		
Date:	9/29/2024	Sheet of
File:	C:\Users\...\Others.SchDoc	Drawn By:

- 1、接插件除了J6-J9一样外，其他接插件型号不同，有防呆设计
- 2、J6-J9功能一样，通过线缆长度，达到防呆的效果
- 3、经自查，所有功率线路都满足1.5倍额定的需求





按机械层1加工

- PCB加工要求:
- |  |                   |
|--|-------------------|
| 1. 电路板材质: 环氧树脂玻璃布基敷铜板                        | 型号等级: FR-4, A1    |
| 阻燃等级: UL94V-0, 丝印标记                          | 厚度: 1.6mm +/-10%  |
| 层数: 4  | 尺寸: 171x160mm     |
| 2. 表面镀层: 镀锡                                  | 覆铜厚度: 35um +/-10% |
| 字符: 双面白色                                     | 阻焊层颜色: 绿色         |
| 3. 翘曲度: 双层板<1% 多层板<0.5%                      | 过孔: 常规覆盖阻焊        |
| 4. 清洗热风整平                                    |                   |
| 5. 成品符合ROHS                                  |                   |
| 6. 需要PCB加工商丝印UL 认证标志、生产厂家、厂家型号、UL 认证文件号、阻燃等级 |                   |

定制CAMOBA					
	页 2 第页 2 共	日期 , 字 签	号单站更	5f 标	

版本	标记	更改单号	签字、日期		
设计					
审核		工艺			
		标审			
		批准			
				共 2 页第 1 页	

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	0Ω ±0.1% 100mW	国巨RC0805FR-071K	R22, R29	2							
	0Ω ±5% 250mW	RC1206JR-070RL	R56	1							
	1mΩ ±1% 100mW	国巨 1mΩ ±1% 100mW	R8, R9, R15, R16, R17, R18, R24, R25, R31, R32, R38, R39, R45, R46, R52, R53, R54, R55, R57, R58, R64, R65	22							
	1mΩ ±1% 100mW	国巨 1mΩ ±1% 100mW	R33, R34, R40, R41, R47, R48, R59, R60, R66, R67	10							
	1MΩ ±1% 100mW	1MΩ ±1% 100mW	R11, R21, R28, R37, R44, R51, R63	7							
	1.24kΩ ±0.1% 100mW	国巨RC0805FR-073K3	R1	1							
	2KΩ ±1% 100mW	国巨RC0805FR-0710K	R5, R6	2							
	2.2nF ±10% 3kV X7R	HV1812Y222KXHATHV 2.2nF 精度: ±10% 额定电压: 3kV 材质(温度系数): X7R 1812	C44	1							
	4.7KΩ ±1% 100mW	国巨RC0805FR-0710K	R4	1							
	4.7uF ±20% 50V		C3	1							
	5.49kΩ ±0.1% 100mW	RT0603BRD075K49L	R2	1							
	10kΩ ±1% 100mW	国巨RC0805FR-0710K	R3	1							
	10nF ±10% 50V X7R	贴片瓷介电容10nF±10%,0805	C1	1							
	10uF ±10% 16V X5R	Capacitor	C9, C11, C13, C15, C29, C35, C40, C43, C48, C54	10							
	10uF ±20% 16V		C7	1							
	15nF ±10% 50V X7R		C26	1							
	15nF ±10% 50V X7R	Capacitor	C19, C22, C23, C25, C30, C31, C33, C36, C38, C41, C46, C49, C52, C55	14							
	16μH, 6.25A	WE-HCI SMT Flat Wire High Current Inductor, size 1050, 16μH, 6.25A, 34.5mΩ	L1	1							
	20kΩ ±0.1% 100mW	国巨RC0805FR-0712K	R13	1							
	47pF ±10% 50V X7R	贴片瓷介电容100nF±5%,0805	C51	1							
	47uF ±20% 50V	EEFT1H470AP	C2	1							
	51kΩ ±1% 100mW	国巨RC0805FR-0710K	R70	1							
	100nF ±10% 50V X7R	100nF ±10% 50V X7R	C4, C6, C8, C10, C12, C17, C18, C20, C21, C24, C42, C53	12							
	100nF ±10% 50V X7R	100nF ±10% 50V X7R	C14, C16, C27, C28, C32, C34, C37, C39, C45, C47, C50	11							
	120uF ±20% 20V		C5	1							
	330Ω ±0.1% 100mW	国巨RC0805FR-07330R	R10, R12	2							
	330Ω ±1% 100mW		R14, R35, R36, R42, R43, R49, R50, R61, R62, R68	10							
	330Ω ±1% 100mW	国巨RC0603FR-07100RL,0603,1/10W	R19, R20, R26	3							
	330Ω ±1% 100mW	国巨RC0805FR-07100R	R7, R27, R69	3							
	400R100MHz,0.3A,0805	Rdc0.3Ω,伍尔特,742792032	FB1, FB2	2							
	501190-3017		J1	1							
	14020100101160	Connector	J5, J6, J7	3							
	AD8628ARZ		U4	1							
	B340LB		D2	1							
	BC807-40		Q1	1							
	Header 5X2	Header, 5-Pin, Dual row	J2	1							
	HSCDRRN002NGAA5		U14	1							
	HSCDRRN160MDAA5		U7, U9, U11	3							
	J30J-25TJN-J	J30J-25TJN-J	J4	1							
	JST_ZH 1.5-6	品牌: JST 型号: B6B-ZR, 直插, 间距1.5, 6pin	J3	1							
	LM22676MR-ADJ		U1	1							
	MPXHZ6115AC6U		U16	1							
	NC	Rdc0.3Ω,伍尔特,742792032	FB3	1							
	NC	国巨RC0805FR-071K	R23, R30	2							
	PESD5V2S2UT		D4, D9	2							
	REF3450		U3	1							
	SMAJ5.0A-13-F	TVS Diode (Uni-directional)	D3	1							
	SMAJ6.0A-13-F	TVS Diode (Uni-directional)	TVS2	1							
	SMAJ13A	TVS Diode (Uni-directional)	TVS1	1							
	SMBJ7.0A		D1	1							
	SS-12D10L3	Switch	S1	1							
	Test?	TestPad_SMD	T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28	21							
	TLV333IDBVR	品牌: TI, 型号: TLV333IDBVR,SOIC-8,-25°~+85°C,单运放, ROHS	U5, U6, U8, U10, U12, U13, U15	7							
	TLV76150DCYR	品牌: TI, 型号: LM1117IMP-3.3/NOPB, 800-mA Low-Dropout, SOT223, -40~+125°C, ROHS	U2	1							
	黄绿色		LED1, LED2, LED3, LED4	4							