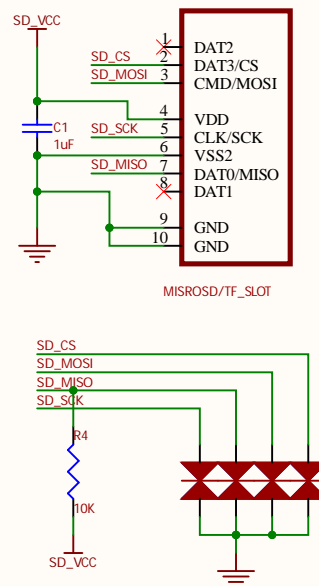


# SOC

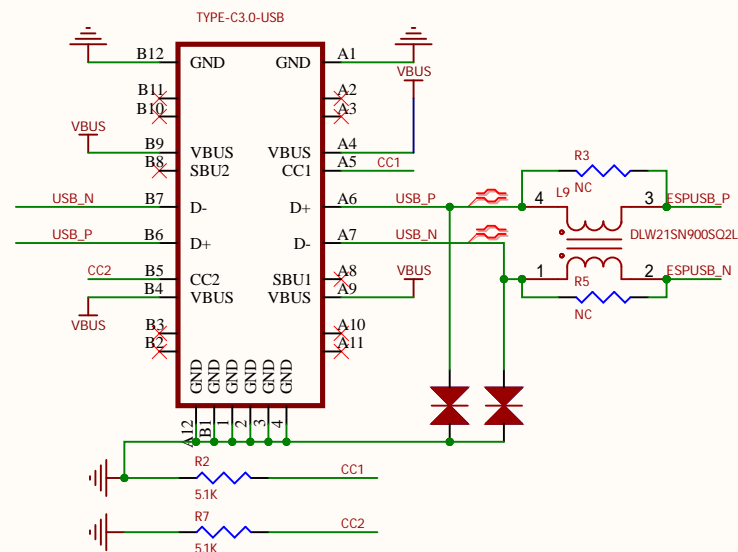
**N16R8:Octal SPI occupies 5 more GPIOs than Quad SPI, namely GPIO33~GPIO37**



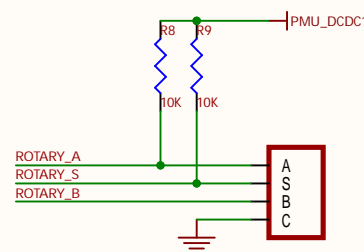
## TF Card holder



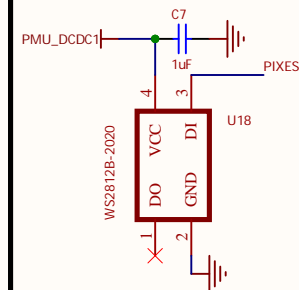
## External download



## USB-C

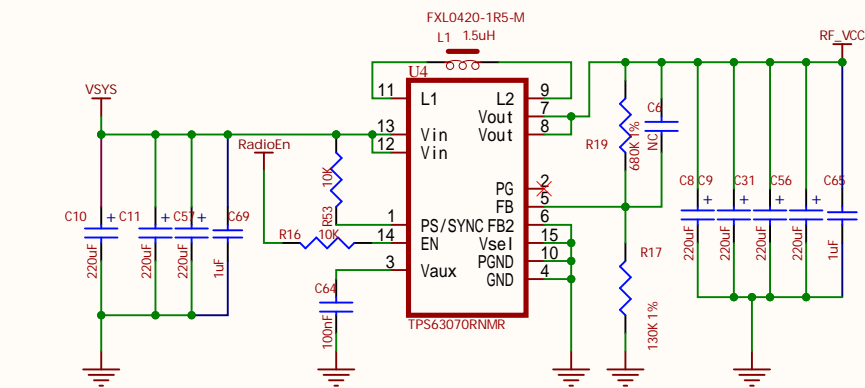


## Encoder

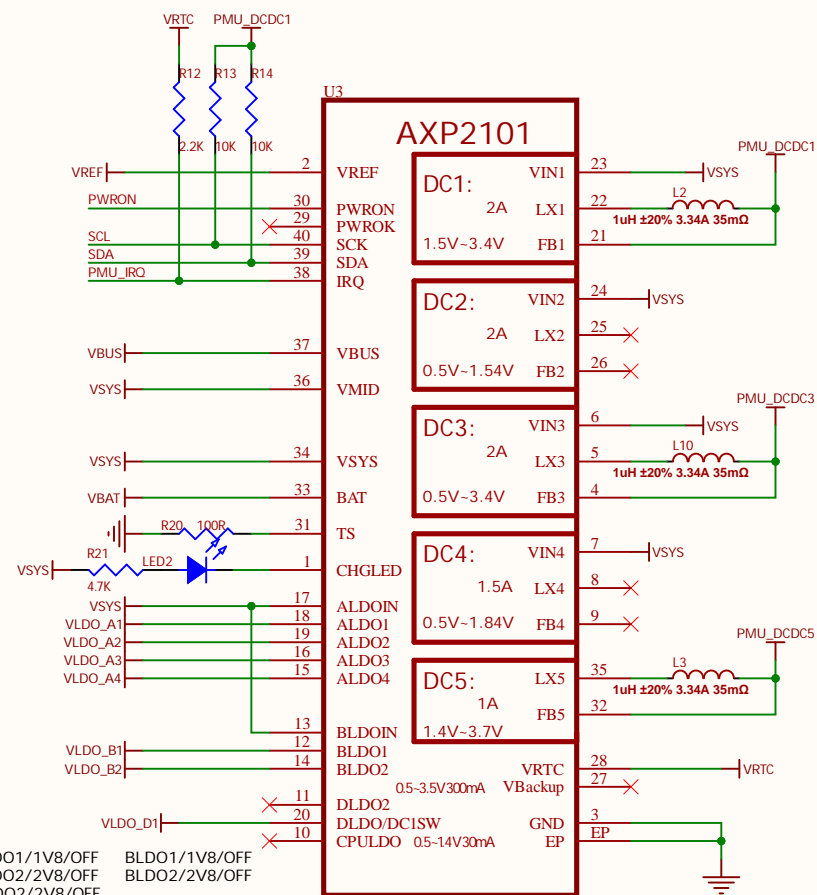


## Pixels

Title				<b>PCB_SOC_LILYGO</b>			
Size A4		Number			Revision <b>V2.1</b>		
Date: 12/28/2023		Sheet of		1/7			
File: C:\Users\...\1.SOC.SchDoc		Drawn By:		<b>LewisHe</b>			



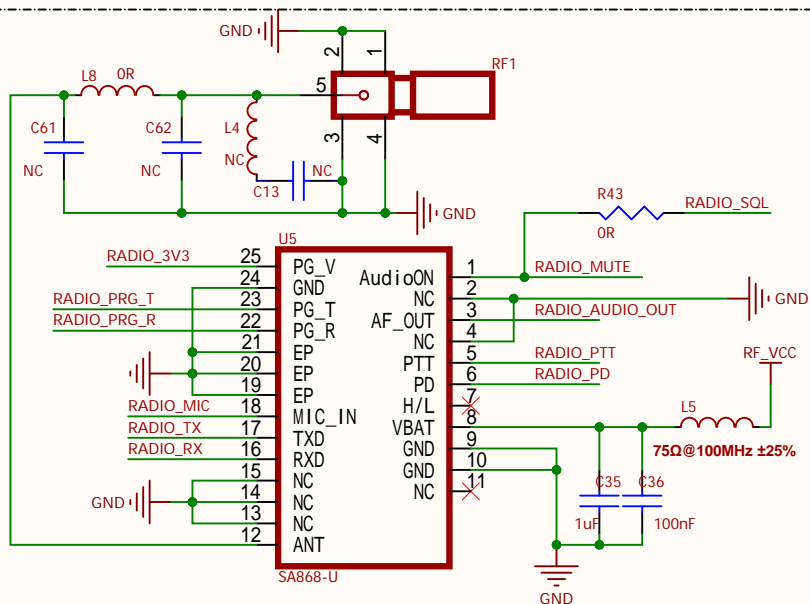
Power Mode	Regulator	Control Signal	Output
ALDO4/2V9/OFF	VLDO_A4	GNSS/3.3V	GNSS_VCC
	PMU_DDC1	DISPLAY/SOC/3.3V	OLED_VCC
	VLDO_A2	MISROSD/3.3V	SD_VCC
BLDO1/1V8/OFF	VLDO_B1	MIC/3.3V	Voice_VCC
	VLDO_A1	USER/ADJUST	UserLDO3
	VLDO_A3	Audio Switch	AudioSwitchEn
BLDO2/2V8/OFF	VLDO_B2	Radio Switch	RadioEn
	VLDO_D1	Radio Downloader Switch	DownloadSwitchEn



Title				<b>PCB_PMU_LILYGO</b>			
Size A4		Number			Revision <b>V2.1</b>		
Date: 12/28/2023				Sheet of 2/7			
File: C:\Users\...2.PMU.SchDoc				Drawn By: <b>LewisHe</b>			

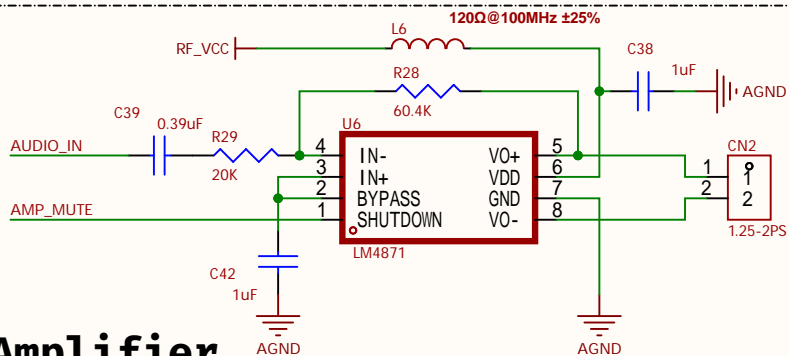
A

B



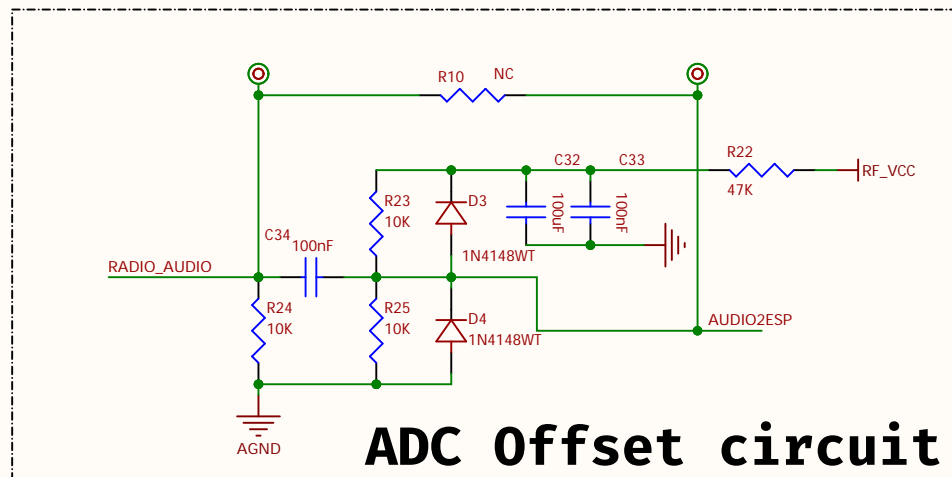
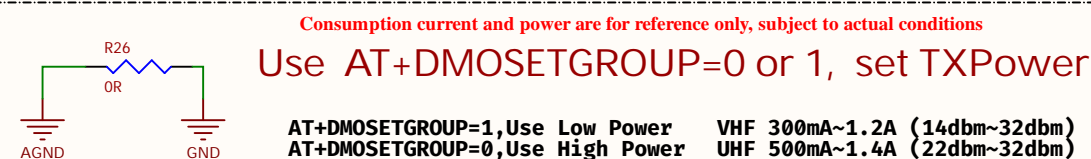
## Radio Module

C



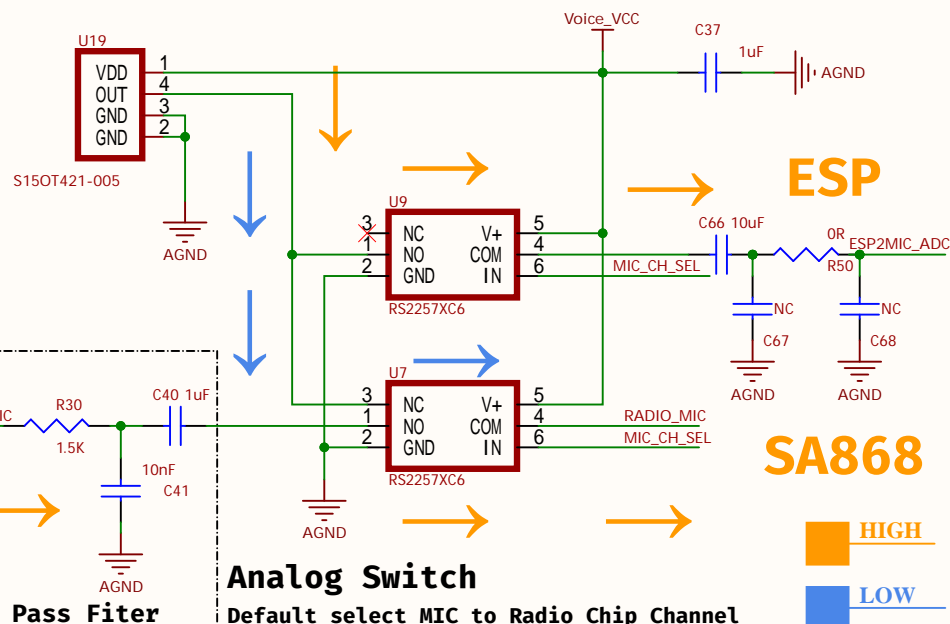
## Amplifier

D



A

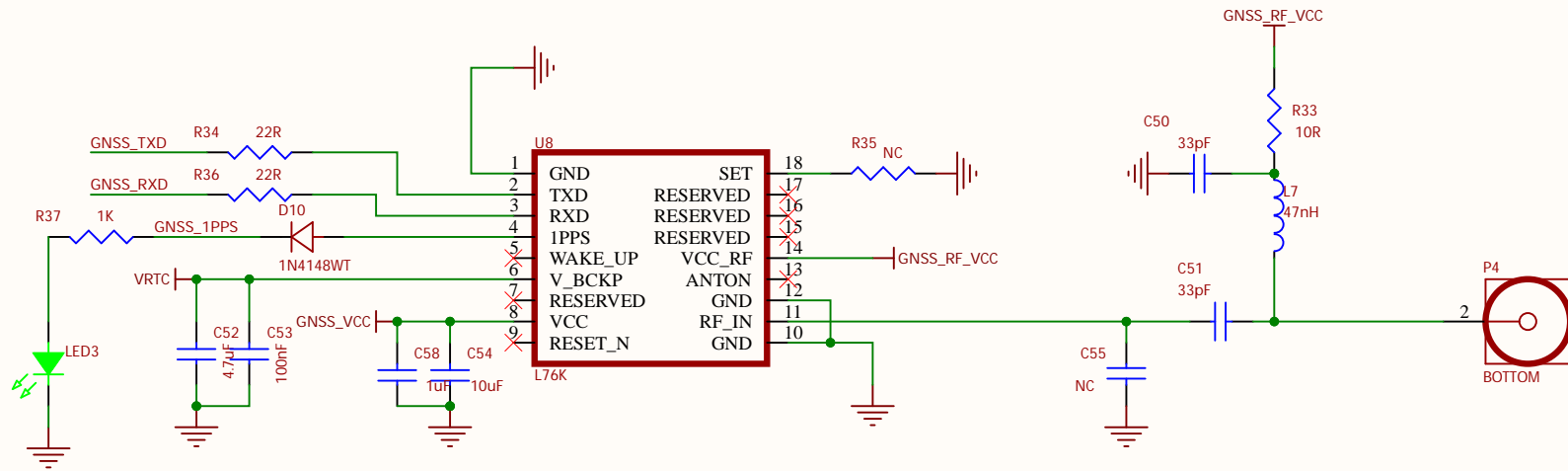
B



C

D

PCB_RADIO_LILYGO		
Title		
Size	Number	Revision
A		V2.1
Date:	12/28/2023	Sheet of 3/7
File:	C:\Users\...\3.RADIO.SchDoc	Drawn By: LewisHe



## L76K GNSS Module

R34 = 0R, Select GPS + GLONASS

R34 = NC, Select BeiDou + GPS

Title

**PCB\_GNSS\_LILYGO**

Size

Number

Revision

A

**V2.1**

Date:

12/28/2023

Sheet of

4/7

File:

C:\Users\...\4.GNSS.SchDoc

Drawn By:

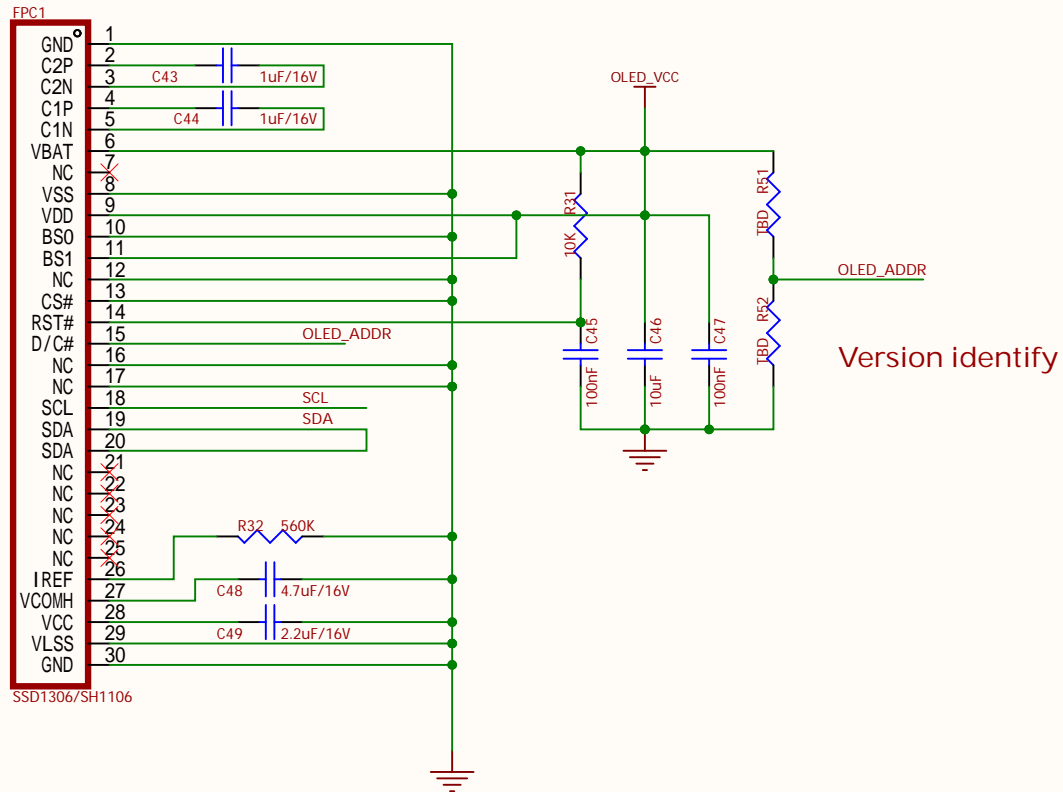
LewisHe

# OLED Display

Slave 7 bit address definition:

VHF: R52 = 0R R51 = NC 0X3C

UHF: R52 = NC R51 = 0R 0X3D



Title		
PCB_DISPLAY_LILYGO		
Size	Number	Revision
A		V2.1
Date:	12/28/2023	Sheet of 5/7
File:	C:\Users\...\5.DISPLAY.SchDoc	Drawn By: LewisHe

A

A

B

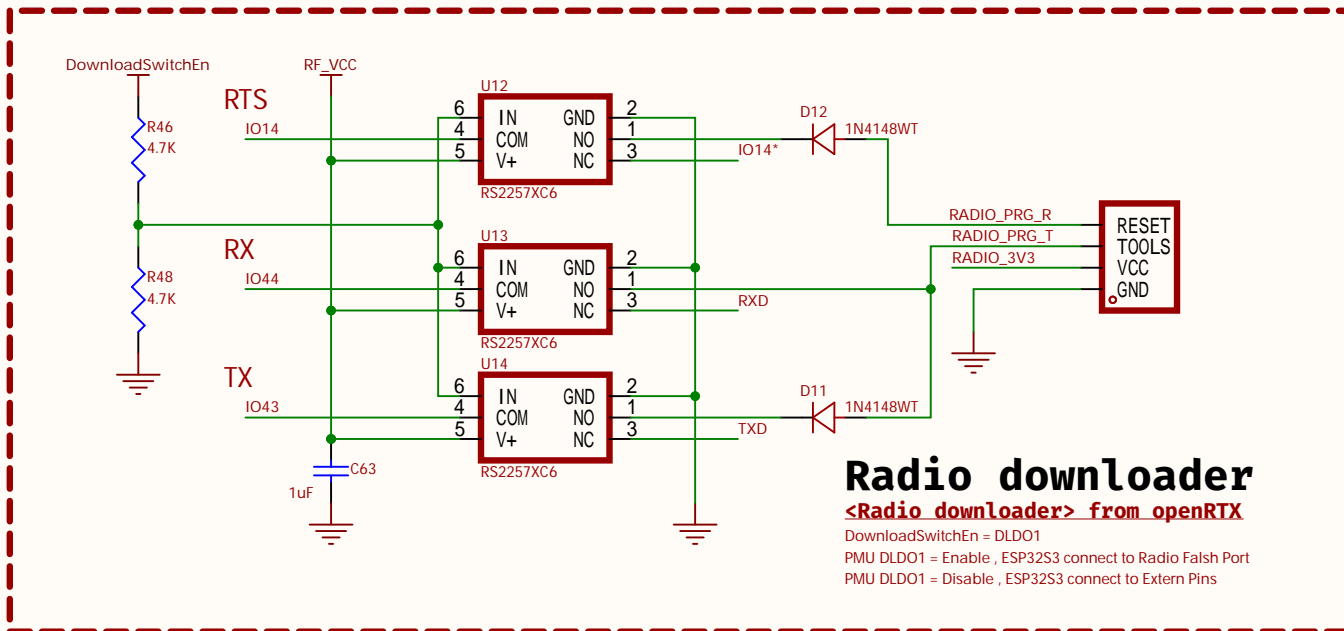
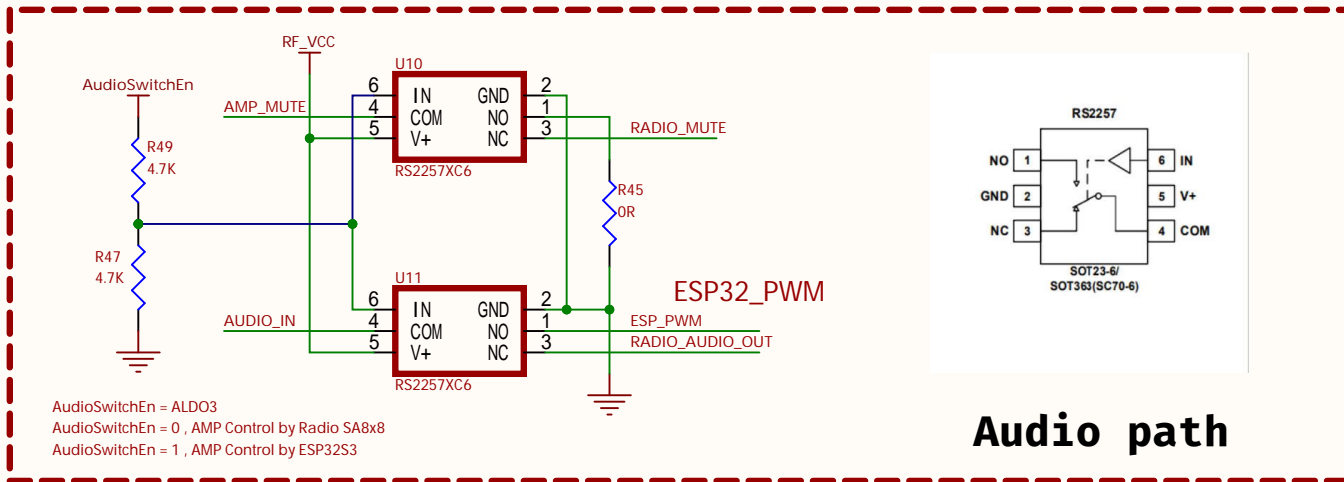
B

C

C

D

D



Title			<b>PCB_SA8X8_LILYGO</b>	
Size	Number		Revision	
A			<b>V2.1</b>	
Date:	12/28/2023		Sheet of	6/7
File:	C:\Users\...\6.SA8X8.SchDoc		Drawn By:	LewisHe

