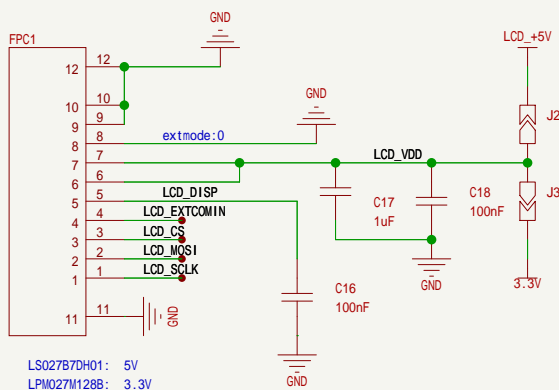
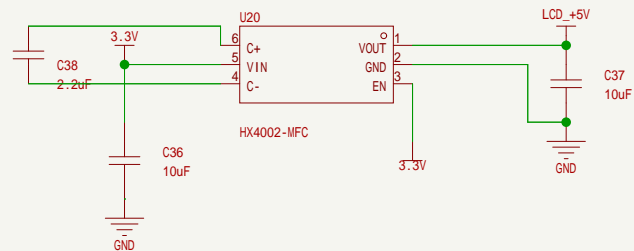
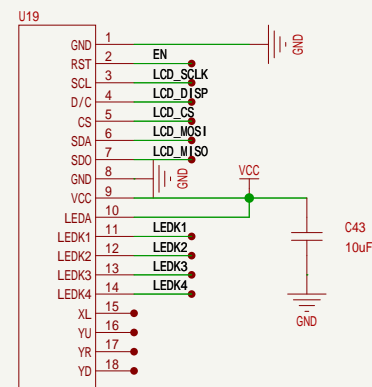


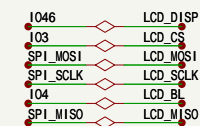
Schematic	sch_2.1		Update Date	2023-12-22	
			Create Date	2023-12-22	
Page	mcu		Part Number		
Drawn	MakerMO	MagicBerry S3			
Reviewed					
		VER	SIZE	PAGE	1 OF 9
		V1.0	A4	嘉立创EDA	



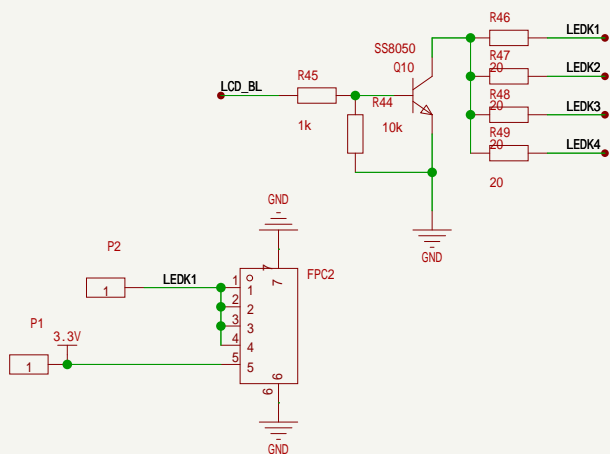
LS027B7DH01: 5V  
LPM027M128B: 3.3V



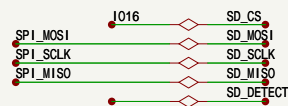
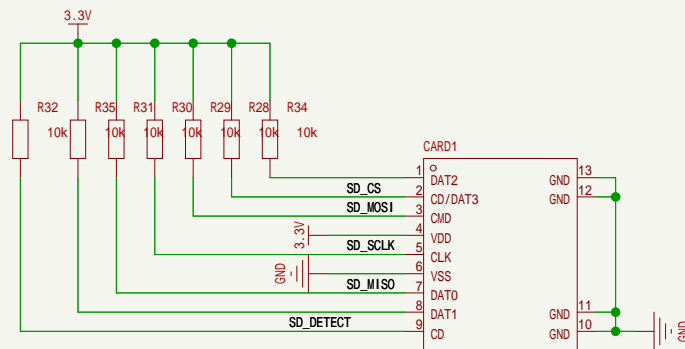
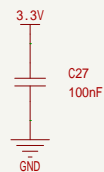
<https://item.taobao.com/item.htm?spm=a1z0d.6639537/tb.1997196601.4.24cd7484TibE04amp;id=720043664330>  
对于中景园购买的彩屏，R47、R48、R49不要焊接



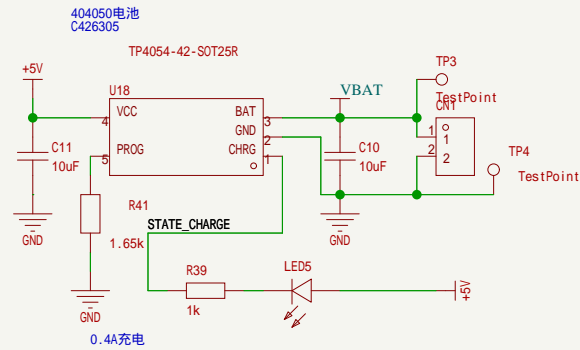
二选一，屏幕2.7MLCD和2.4寸IPS TFT



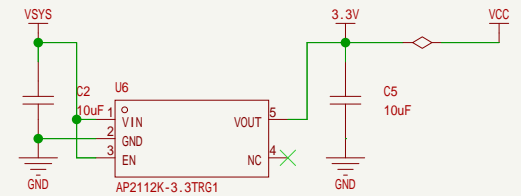
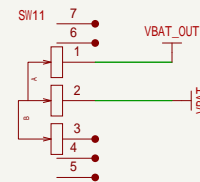
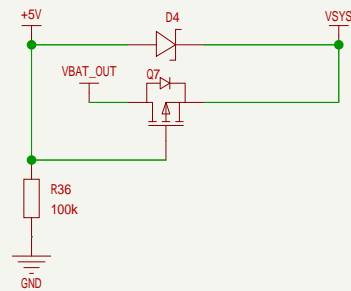
Schematic	sch_2.1		Update Date	2023-12-22
			Create Date	2023-12-22
Page	lcd		Part Number	
Drawn	MakerMO	MagicBerry S3		
Reviewed				
		VER	SIZE	PAGE 2 OF 9
		V1.0	A4	嘉立创EDA



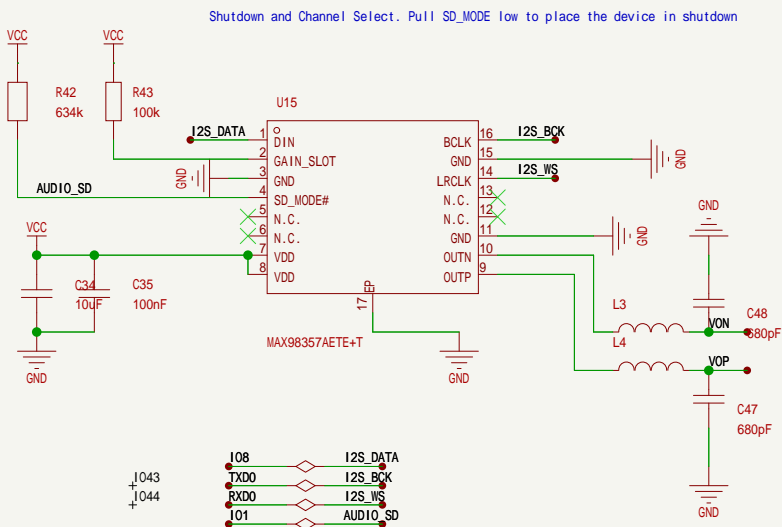
Schematic	sch_2.1		Update Date	2023-12-22
			Create Date	2023-12-22
Page	sd		Part Number	
Drawn	MakerMO	MagicBerry S3		
Reviewed				
		VER	SIZE	PAGE 3 OF 9
嘉立创EDA		V1.0	A4	嘉立创EDA



2022/10/30 : 增加电源管理电路



Schematic	sch_2.1			Update Date	2023-12-22
				Create Date	2023-12-22
Page	power			Part Number	
Drawn	MakerMO	MagicBerry S3			
Reviewed					
		VER	SIZE	PAGE	4 OF 9
嘉立创EDA		V1.0	A4	嘉立创EDA	



## 9.9 增益设置和输入电阻

NS4150B 内部集成反馈电阻为 240k, 增益  $A_{VD} = \frac{240 K\Omega}{R_{in}}$ , 其中  $R_{in}$  为外接输入电阻。

## 9.10 输入滤波器

音频信号通过隔直电容和输入电阻输入到 NS4150B 的 INP 与 INN。输入电容  $C_{in}$  与输入电阻  $R_{in}$

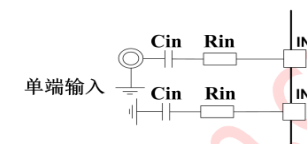
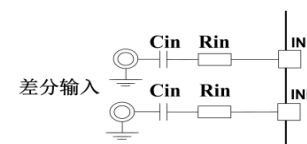
7

2021 Copyright © Nsiway Technology

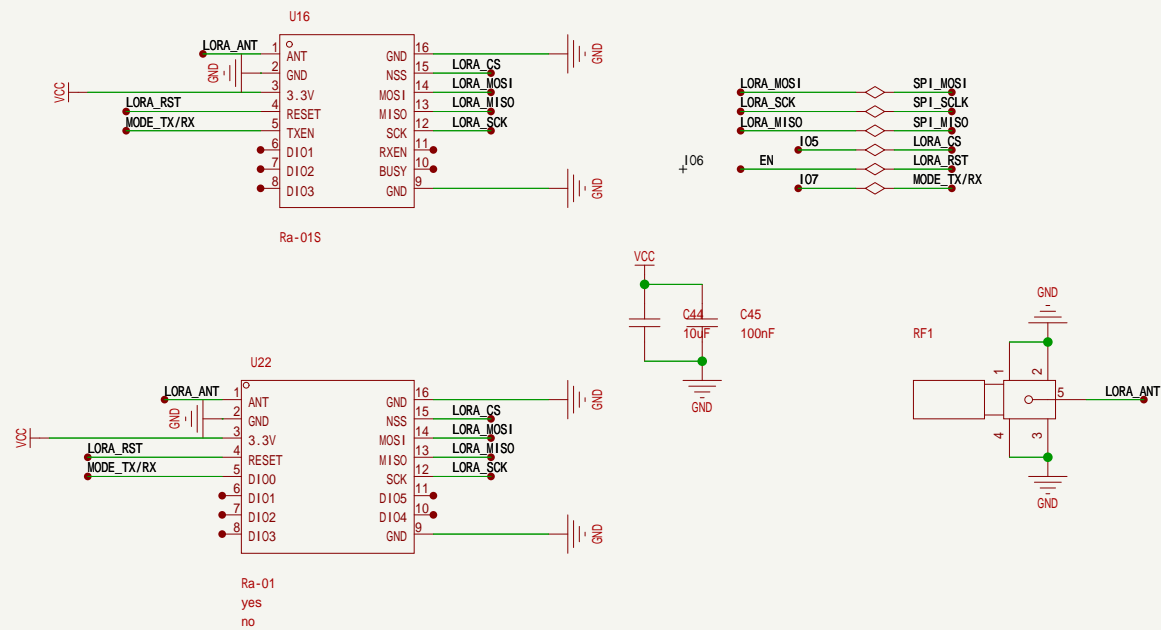
深圳市纳芯威科技有限公司  
SHENZHEN NSIWAY TECHNOLOGY CO., LTD

NS4150B Mar.2021 V1.1

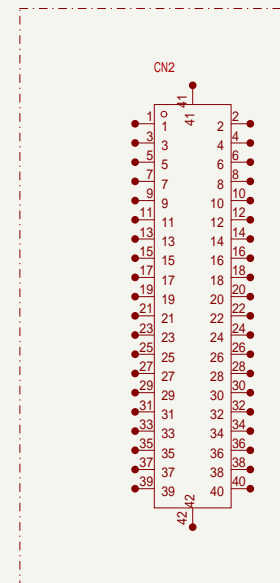
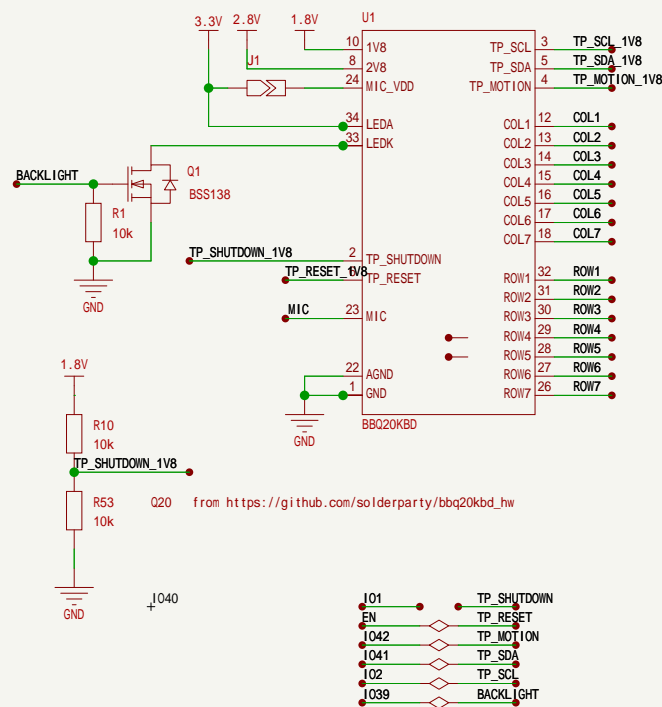
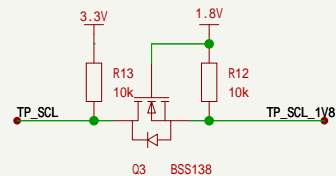
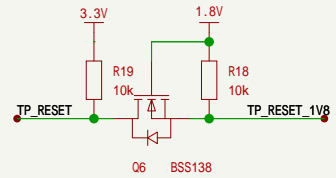
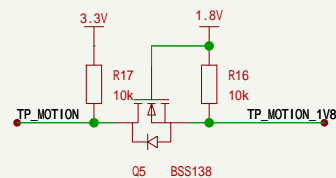
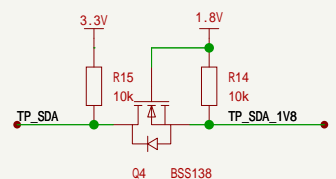
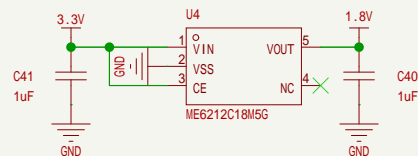
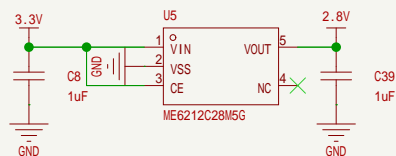
构成一个高通滤波器。截止频率为  $f_c = \frac{1}{2\pi \cdot R_{in} \cdot C_{in}}$ 。实际上, 在很多应用中, 扬声器 (Speaker) 不能够再现低于 100Hz—150Hz 的低频语音, 因此采用大的电容并不能够改善系统的性能。除了考虑系统的性能, 开关/切换噪声的抑制性能受电容的影响, 如果耦合电容大, 则反馈网络的延迟大, 导致 POP 噪声出现, 因此, 小的耦合电容可以减少该噪声。



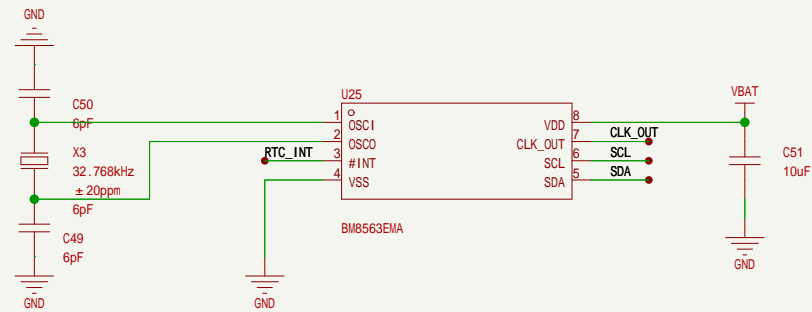
Schematic	sch_2.1			Update Date	2023-12-22
				Create Date	2023-12-22
Page	speaker			Part Number	
Drawn	MakerMO	MagicBerry S3			
Reviewed					
		VER	SIZE	PAGE	5 OF 9
		V1.0	A4	嘉立创EDA	



Schematic	sch_2.1		Update Date	2023-12-22
			Create Date	2023-12-22
Page	lora		Part Number	
Drawn	MakerMO	MagicBerry S3		
Reviewed				
		VER	SIZE	PAGE 6 OF 9
		V1.0	A4	嘉立创EDA



Schematic	sch_2.1		Update Date	2023-12-22
			Create Date	2023-12-22
Page	keyboard		Part Number	
Drawn	MakerMO	MagicBerry S3		
Reviewed				
		VER	SIZE	PAGE 7 OF 9
		V1.0	A4	嘉立创EDA



Schematic	sch_2.1		Update Date	2023-12-22
			Create Date	2023-12-22
Page	rtc		Part Number	
Drawn	MakerMO	MagicBerry S3		
Reviewed				
		VER	SIZE	PAGE 8 OF 9
		V1.0	A4	嘉立创EDA



