

保密等级：机密

SPECIFICATION

产品规格书

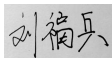
产品型号: **TP.MS3663S.PA671**

销售区域: 欧洲/ 澳洲 / 东南亚

产品形态: TV+POWER+LED

产品类型: 基本型|DVB

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Please send the original back to us after you have approved and signed.

客户承认签章后敬请寄回正本一份。

Approved by customer		
Comments 确认意见	Approved by 批准签字	Company's seal 盖章
Customer's Name:		

REVISION HISTORY

VERSION	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V0	2017.05.12	TP.MS3663S.PA671 A17117	All	First Issued.	Mio

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1. STANDARD CONFIGURATION（标准配置）

下表为我们主推的标准配置：

标准配置一	欧洲，带 SCART，带 CI，带 DVB-S/S2，同轴端子
FUNCTIONS	【PA671_E1】EARPHONE OUT,VGA,SCART,PC AUDIO IN,DVB-S/S2,ATV/DVB-T/T2, COAX,HDMI,USB,(Mini)CVBS/AUDIO IN,(Mini)YPbPr
Notes	--
FRONT VIEW	
SIDE VIEW	

标准配置二	欧洲，带 SCART，带 CI，不带 DVB-S/S2，同轴端子
FUNCTIONS	【PA671_E2】EARPHONE OUT,VGA,SCART,PC AUDIO IN,无 DVB-S/S2,ATV/DVB-T/T2, COAX,HDMI,USB,(Mini)CVBS/AUDIO IN,(Mini)YPbPr
Notes	--
FRONT VIEW	
SIDE VIEW	

标准配置三	澳洲，带 DVB-S/S2 ，同轴端子
FUNCTIONS	【PA671_A1】EARPHONE OUT,VGA,CVBS/AUDIO IN,PC AUDIO IN,DVB-S/S2,ATV/DVB-T/T2,COAX,HDMI,USB,YPbPr
Notes	--
FRONT VIEW	
SIDE VIEW	

标准配置四	澳洲，不带 DVB-S/S2 ，同轴端子
FUNCTIONS	【PA671_A2】EARPHONE OUT,VGA,CVBS/AUDIO IN,PC AUDIO IN,无 DVB-S/S2,ATV/DVB-T/T2, COAX,HDMI,USB,YPbPr
Notes	--
FRONT VIEW	
SIDE VIEW	

标准配置五	欧洲(东南亚), 带 CI, 带 DVB-S/S2, 同轴端子
FUNCTIONS	【PA671_A3】EARPHONE OUT,VGA,CVBS/AUDIO IN,PC AUDIO IN,DVB-S/S2,ATV/DVB-T/T2,COAX,HDMI,USB,无(Mini)CVBS/AUDIO IN,(Mini)YPbPr
Notes	--
FRONT VIEW	
SIDE VIEW	

标准配置六	欧洲(东南亚), 带 CI, 不带 DVB-S/S2, 同轴端子
FUNCTIONS	【PA671_A4】EARPHONE OUT,VGA,CVBS/AUDIO IN,PC AUDIO IN,无 DVB-S/S2,ATV/DVB-T/T2,COAX,HDMI,USB,无(Mini)CVBS/AUDIO IN,(Mini)YPbPr
Notes	--
FRONT VIEW	
SIDE VIEW	

OPTIONAL FUNCTION	CI
--------------------------	----

备注: 如以上表格不包含您需要的配置, 请单独向我司销售人员进行申请。

Note: If the configurations above can't meet your demand, please apply to our sales stuff.

TP.MS3663S.PA671 匹配背光功率 15W 以下，主推背光电压范围 18V-60V 间，单路背光输出。

以上标准配置可与下列恒流规格任意搭配。具体的背光电流值依据客户的具体需求而定。如以下表格不包含您需要的配置，请单独向我司销售人员进行申请。

TP.MS3663S.PA671with backlight power under 15W, the main promotion backlight voltage is between 18V-60V, and single backlight output.

Standard configurations above could match any following backlight Spec. Specific backlight current can be selected according to customer's requirement. If the configurations below can't meet your demand, please apply to our sales stuff.

主推电源及背光规格			
Main Promotion Power and backlight Spec.			
功率 Power	电源输出 Power Output	恒流规格 Backlight Value	背光插座 Backlight Connectors
40W	12V	18V-60V/15W	2PIN-2.0 卧式-带台阶

2. BOARD PICTURE（板卡外观图）

Pictures are for reference only, specific to prevail in kind.

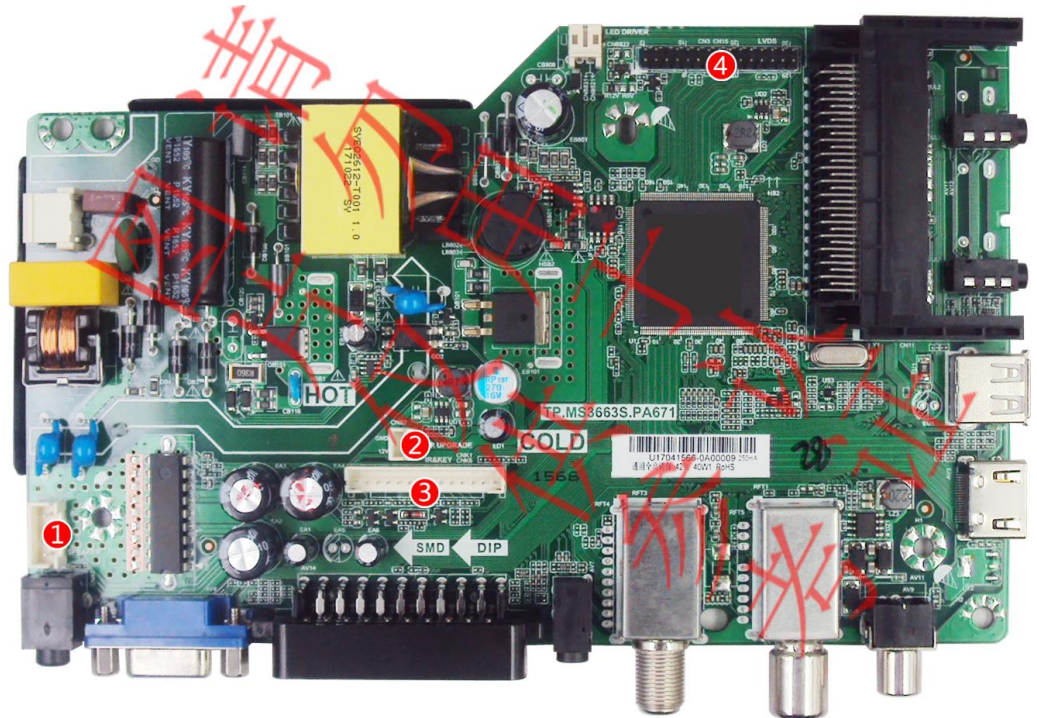
The optional connectors and functions are marked with “*”.

以下图片仅供参考，请以【结构图】或【实物】为准。

可选的接口或者功能都以“*”标示。

尺寸：190mm(L)*118mm(W)*1.2mm(H)（H 为 PCB 厚度）

No.	Position	Description
1	CNA1	SPEAKER
2	CNB2	PWR UPGRADE
3	CNK6	IR&KEY
4	CN3	LVDS



备注：耳机输出不能用于 Line Out.

Note: Earphone output can not be used for Line Out.

REQUIREMENT OF WIRE HARNESS（线材需求）

(MINI)AV IN



(MINI)YPbPr IN



QR-ZZPJ-017

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3. FEATURES（特性说明）

MAIN CHIPSET 主芯片	MSD3663LSA-Z1 or MSD3663LSA-SW		
OSD LANGUAGE OSD 语言	Europe/Australia/ South Asia	English, French, German, Italian, Spanish, Portuguese (optional)	
PANEL 面板	Panel Type	TFT LCD	
	Panel Size	18.5-24 寸	
	Interface	Single/Dual LVDS	
	Max Resolution	1920*1080	
VIDEO INPUT 视频输入	TV(Details in 3.1)	ATV(PAL,SECAM)/DTV(DVB-T/C/T2/S/S2)	
	PC-RGB	Format	Up to 1920×1080@60Hz
	CVBS	Video System	PAL/NTSC
		Video level	1.0 Vp-p±10%
	Component	480i, 480p, 720p, 1080i, 1080p	
	HDMI	480i, 480p, 720p, 1080i, 1080p	
		*CEC, *ARC	
		HDCP Version	1.4
SCART	CVBS & RGB		
AUDIO INPUT 音频输入	PC Audio	Earphone Input	0.2 ~ 2.0 V _{RMS}
	CVBS	L/R RCA input	0.2 – 2.0V _{RMS}
	Component		
AUDIO OUTPUT 音频输出	CVBS Audio	L/R RCA Output	250mV _{RMS} ±10%
	COAX	PCM/RAW	
	Frequency response	100Hz-15KHz @±3dB(1KHz 0dB reference signal)	
	Output power	2×3W(4Ω) THD+N<10%@1KHz (Audio Input: 0.5V _{RMS})	
POWER TO PANEL 驱屏电压	5V, 12V		
USB FUNCTION USB 功能	software upgrade, multimedia play 软件升级, 多媒体播放		
Button Types 按键类型	Ground Key Interface 对地按键接口		
Note: Licenses involved in specifications above are supposed to be obtained by customers themselves. 注意: 以上规格涉及 License 部分需要客户自己获取。			

3.1 TV SYSTEM (TV 制式)

ATV (PAL, SECAM,NTSC)	Reception range		48.25MHz ~ 863.25MHz
	Input impedance		75Ω
	Video System		PAL, SECAM,NTSC
	Sound System	BG, DK, I, L/L',MN	
		NICAM/A2	
	TELETEXT		1000Pages
DTV (DVB-T/C/T2/S/S2)	Max Storage Channels		99CH
	Reception range		VHF (50MHz ~ 230MHz)
			UHF (474MHz ~ 862MHz)
	Input impedance		75Ω
	Channel Bandwidth		7MHz/8MHz
	Modulation	DVB-T	COFDM 2K/8K QPSK,16QAM,64QAM
		*DVB-S/S2	QPSK ,8PSK
		*DVB-T2	QPSK,16QAM,64QAM,256QAM
		DVB-C	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
	Video System		MPEG-2 MP@ML, MPEG-2 MP@HL, H.265 Main/Main-10 profile, @L4.1, Support 8-bit/10-bit color depth, 1920x1080@60fps
	Sound System		MPEG-1 layer 1/2
	Basic Functions		EPG, Subtitle, LCN, TELETEXT (Europe), MHEG-5(UK)
	Common Interface		Built-In
	Max Storage Channels		700CH(DVB-T+DVB-C)
			3500CH(DVB-S/S2)

3.2 CRITICAL MATERIALS of TV Part (TV 部分关键物料清单)

The table is for reference only, specific to prevail in kind. 此表仅供参考，请以实物为准。

NAME 物料名称	TYPE 型号	BRAND 品牌	BACKUP 备用型号	BACKUP 备用品牌
TUNER	R842	Rafael	CDT-9NT372-RF01	Cdtech
	RT710		EDS-11980FNPRD	EARDATEK
AMPLIFIER	YD1517P(F)	YD	CD1517CP	HRXW
SPI FLASH	KH25L6436FM2I-08G	KH	--	--
SPXO	SPXO,24MHz,±20PPM,20pF ,HC-49SMD,SMD,49SMD 24.000MHz	JWT	SPXO,24MHz,±20PPM, 20pF,HC-49SMD,SMD	LM

3.3 MULTIMEDIA PLAYBACK FORMAT (USB 多媒体格式播放列表)

Media (媒体)	File Ext. (扩展名)	Codec (编码解码器)		Remark (备注)
		Video (视频)	Audio (音频)	
MOVIE	.mpg	MPEG-1, MPEG-2	MP3, WMA*, AAC, AC3*,PCM	Max Solution: 1920×1080
	.avi	DivX*, Xvid, MJPEG		Max Data Rate: 40 Mbps
		MPEG-4 SP/ASP, H.263/H.264		Max Solution: 1920×1080 Max Data Rate: 20 Mbps
		.ts		
	.mov .mkv	MPEG-4 SP/ASP, H.263/H.264, HEVC		
	.dat	MPEG-1		
	.mp4	MPEG-4 SP/ASP, H.263/H.264, HEVC		
		MPEG-1, MPEG-2		
	.vob	MPEG-2		Max Data Rate: 40 Mbps
	.rm*/.rmvb*	RV30/RV40	COOK, MP2	Max Solution: 1920×1080
MUSIC	.mp3	--	MP3	Sample Rate: 8K~48KHz Bit Rate: 32K~320Kbps
	.wma*	--	WMA*	Channel: Mono/Stereo
	.m4a/.aac	--	AAC	Sample Rate: 16K~48KHz
				Bit Rate: 32K~442Kbps
				Channel: Mono/Stereo
PHOTO	.jpg/	Progressive JPEG		Max Resolution: 1024×768
	.jpeg	Baseline JPEG		Max Resolution: 15360×8640
	.bmp	BMP		Max Resolution: 9600×6400
				Pixel Depth: 1/4/8/16/24/32 bpp
	.png	Non-Interlaced		Max Resolution: 9600×6400
Interlaced		Max Resolution: 1280×800		
SUBTITLE	.srt	SubRip		
	.ssa/.ass	SubStation Alpha		
	.smi	SAMI		
	.sub	SubViewer MicroDVD DVDSubtitleSystem SubIdx(VobSub)		SubViewer 1.0 & 2.0 Only

	.txt	TMPlayer	
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File system: FAT32, FAT16, NTFS.

MSD3663LSA-Z1 don't support DivX, rm/.rmvb/.wma/AVS/AVS+/AC3.

MSD3663LUA-SW don't support DivX, rm/.rmvb/.wma/AVS/AVS+.

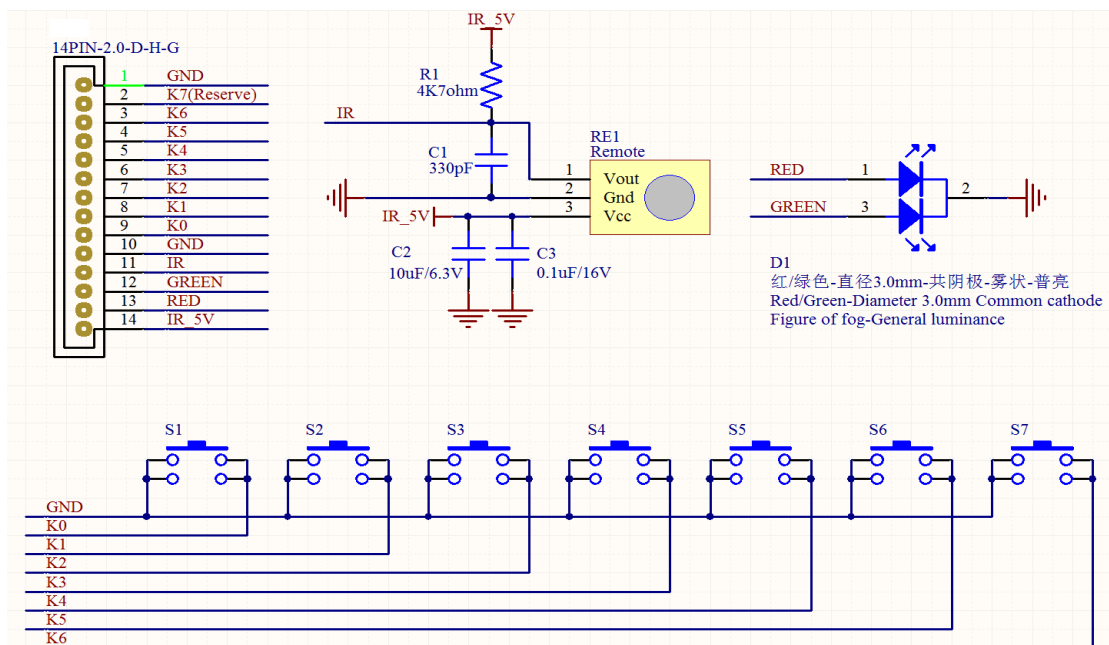
The different chip suffix will support different codec.

Notes: Licenses involved in specifications above are supposed to be obtained by customers.

***Need the specific chip and Hash Key to support.**

4. SCHEMATICS OF IR & KEY BOARD (遥控按键原理图)

对地按键接口:



按键功能: 信号源, 菜单, 音量+, 音量-, 频道+, 频道-, 电源

KEY FUNCTION: TV/AV, MENU, VOL+, VOL-, CH+, CH-, POWER

Note: The dividing resistor which is corresponding to the power key must be zero (equivalent to the voltage is zero). Otherwise, the board will not work. K6 is default power.

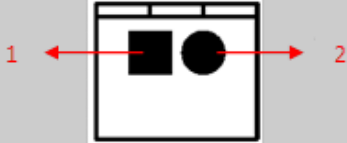
5. INTERFACE DEFINITION（接口定义）

The optional connectors and terminals are marked with “*”.标“*”的为可选。

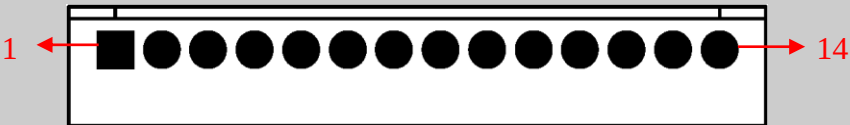
◆ CNA1 (4PIN/2.54): SPEAKER CONNECTOR (喇叭输出接口)

		
NO.	SYMBOL	DESCRIPTION
1	RSPK	Audio Right Channel Output+
2	GND	Ground
3	GND	Ground
4	LSPK	Audio Left Channel Output+

◆ CNB2(2PIN/2.0):POWER SUPPLY FOR UPGRADE CONNECTOR (升级用供电接口)

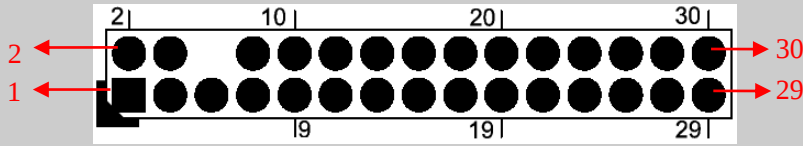
		
NO.	SYMBOL	DESCRIPTION
1	GND	Ground
2	12V	+12V DC Power Supply

◆ CNK6(14PIN/2.0): IR & KEY CONNECTOR(遥控和按键控制接口)

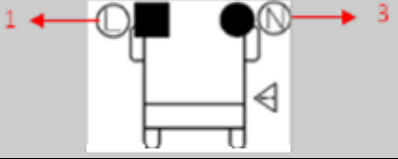
		
NO.	SYMBOL	DESCRIPTION
1	GND	Ground
2	K7	Key7(Reserved)
3	K6	Key6
4	K5	Key5
5	K4	Key4
6	K3	Key3
7	K2	Key2
8	K1	Key1
9	K0	Key0
10	GND	Ground

11	IR	IR Receiver, $V_{IH} \geq 2V$, $V_{IL} \leq 1V$, $I_{Lmin} : 1mA$, $I_{Hmin} : 1mA$
12	GRN/BLU	Green Indicator, $V_{OH} \geq 2V$ ($I_{OHMAX} : 2mA$), $V_{OL} \leq 0.8V$ ($I_{OLMAX} : 2mA$)
13	RED	Red Indicator, $V_{OH} \geq 2V$ ($I_{OHMAX} : 1.3mA$), $V_{OL} \leq 0.8V$ ($I_{OLMAX} : 0.5mA$)
14	5V	+5V DC Power Supply

◆ **CN3 (2×15PIN/2.0): LVDS CONNECTOR (LVDS 接口)**

		
NO.	SYMBOL	DESCRIPTION
1	VCC-Panel	Power Supply for Panel
2	VCC-Panel	
3	VCC-Panel	
4	GND	Ground
5	GND	
6	NC	No Connection
7	RX00-	LVDS ODD 0- Signal
8	RX00+	LVDS ODD 0+ Signal
9	RX01-	LVDS ODD 1- Signal
10	RX01+	LVDS ODD 1+ Signal
11	RX02-	LVDS ODD 2- Signal
12	RX02+	LVDS ODD 2+ Signal
13	GND	Ground
14	GND	
15	RXOC-	LVDS ODD Clock- Signal
16	RXOC+	LVDS ODD Clock+ Signal
17	RX03-	LVDS ODD 3- Signal
18	RX03+	LVDS ODD 3+ Signal
19	RXE0-	LVDS EVEN 0- Signal
20	RXE0+	LVDS EVEN 0+ Signal
21	RXE1-	LVDS EVEN 1- Signal
22	RXE1+	LVDS EVEN 1+ Signal
23	RXE2-	LVDS EVEN 2- Signal
24	RXE2+	LVDS EVEN 2+ Signal
25	GND	Ground
26	GND	
27	RXEC-	LVDS EVEN Clock- Signal
28	RXEC+	LVDS EVEN Clock+ Signal
29	RXE3-	LVDS EVEN 3- Signal
30	RXE3+	LVDS EVEN 3+ Signal

◆ CNB1 (2PIN/7.92): AC INPUT CONNECTOR (交流输入接口)

		
NO.	SYMBOL	DESCRIPTION
1	L	LIVE (火线)
3	N	NEUTRAL (零线)

NOTE:

(1) 参数说明

V_{OH} : 高电平输出电压; I_{OHMAX} : 高电平输出驱动电流; V_{OL} : 低电平输出电压; I_{OLMAX} : 低电平输出驱动电流;

V_{IH} : 高电平输入电压; V_{IL} : 低电平输入电压; I_{ILmin} : 低电平最小输入电流; I_{IHmin} : 高电平最小输入电流;

(2) 在匹配应用时, 各控制和通讯口以及供电须在本规格书中描述的电气特性范围内, 若有特殊需求, 请与我司硬件工程师联系确认。

6. ELECTRICAL CHARACTERISTICS (电气特性)**6.1 INPUT ELECTRICAL SPECIFICATIONS (输入特性)**

Input	Minimum	Nominal	Rating	Maximum	Unit
Voltage	132	220	200~240	264	Vac
Current	—	—	—	1.2	A
Frequency	47	60/50	—	63	Hz
Efficiency	$\geq 80\%$ min(Full load with input AC voltage of 115Vac @ 60Hz and 230Vac @ 50Hz)				
Standby Power Consumption	$\leq 0.5W$ At 240Vac input and no load condition				
Leakage Current	Less Than 0.35mA, 240Vac input				

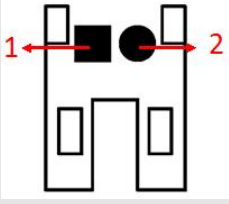
6.2 DIMMING CHARACTERISTICS (调光特性)

Dimming Characteristic						
Dimming type		Digital dimming				
Parameter		Symbol	Min.	Typ	Max.	Note
PWM_REF Input	Duty	--	15%	70%	100%	100%Maximum Duty Maximum Brightness
	Frequency		22kHz	25kHz	28kHz	--

6.3 LED DRIVER POWER OUTPUT CONNECTOR

(LED 背光供电控制接口)

CNB821 (2PIN/2.0)

	
NO.	Signal Name
1	LED+
2	LED-

OUTPUT PROTECTION SPECIFICATION (输出保护)

Signal Name	LED Short Protection	LED Open Protection
	Specification	Specification
LED output	Auto restart	Shut down or auto restart

7. FUSE PROTECTION (保险丝保护)

To protect the power module, the Fuse will be disconnected to cut off the power supply when the AC input current exceeds the rated current of fuse.

当输入交流电流超过保险丝的额定工作电流时，电源保险丝将断开，关闭电源供应以保护电源模块。

8. INTERNATIONAL STANDARDS (国际标准)

8.1 SAFETY (安规)

Conforming:

UL60950/UL60065;

EN60950-1/EN60065;

GB4943-2011/ GB8898-2011;

IEC 60950/IEC 60065.

8.2 HI-POT AND INSULATION RESISTANCE (耐压性能和绝缘阻抗)

HI-POT (耐压性能)

Primary to secondary (一次侧对二次侧): 3000VAC, 10mA for 60s.

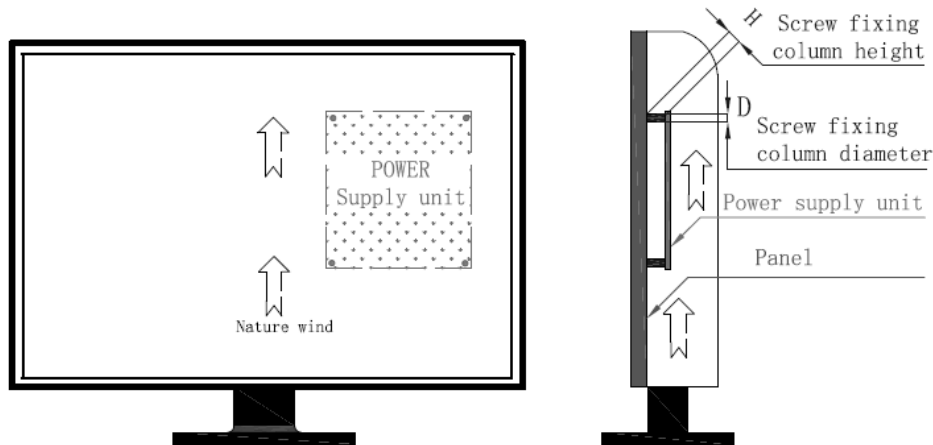
Insulation resistance (绝缘阻抗)

between primary and secondary (一次侧与二次侧之间): 500VDC/60s, $\geq 50\text{M}\Omega$.

9. CONFIGURATION & GENERAL PRECAUTIONS (使用注意事项)

- Relative humidity: $\leq 80\%$.
- 相对湿度: $\leq 80\%$.
- Storage temperature: $-10\sim 60^{\circ}\text{C}$.
- 存储温度: $-10\sim 60^{\circ}\text{C}$.
- Operation temperature: $0\sim 40^{\circ}\text{C}$.
- 使用温度: $0\sim 40^{\circ}\text{C}$.
- Protect the board from static electricity in case of damage to the IC.
- 请使板卡远离静电。
- Keep the board away from conductor when it is working.
- 请确保板卡工作时远离导体。
- Don't push or pull the connectors when the board is working.
- 板卡工作时请勿按压和扭曲。
- Don't press, distort or disassemble the board.
- 请勿拆解板卡。
- Clean the board with soft dry cloth when it's dirty.
- 如果板卡脏了, 请用干布擦拭。
- Don't power on before panel is correctly connected.
- 正确接好驱屏线前请勿接通电源。
- The whole machine certification performance will be subject to the impact of the whole machine, must use the whole machine to test and confirm.
- 整机认证性能会受整机匹配的影响, 必须使用整机进行测试确认。
- When using the I2C interface to communicate with the outside, please confirm the matching of the pull up resistance and the series resistance with CVTE hardware engineer.
- 使用 I2C 接口跟外部通信时, 需与我司硬件工程师确认上拉电阻以及串接电阻的匹配性
- To ensure communicating properly between the mainboard and external expansion modules, it's recommend that test related control and communication signals and power supply voltage waveform after installing prototype to confirm whether to meet the relevant requirements.
- 为保障 TV 主板与外部扩展模块间能正常通讯控制, 建议装样机后对相关控制和通讯信号以及供电等的电压波形进行测试, 确认是否满足相关要求。

10. MOUNT PRECAUTIONS（组装注意事项）



Note1: If there is mylar under PCB bottom, $H \geq 5 \text{ mm}$; If there is no mylar under PCB bottom, $H \geq 9 \text{ mm}$.

如果板卡带麦拉片，则 $H \geq 5\text{mm}$ ；如果板卡不带麦拉片，则 $H \geq 9\text{mm}$ 。

Note2: The diameter of D should be less than 8mm. Use M3 screw to mount the power supply unit on the screw fixing column. The maximum torque force is 0.4N-M.

D 的直径须小于 8mm，将电源锁在螺丝柱上需使用 M3 的螺丝。最大扭力为 0.4N-M。

Note3: The Power supply unit is designed without the case. Pay attention to ESD protection at any time.

因为本产品为无外壳之设计，故在任何时候均应注意静电防护。

Note4: Speaker line must be twisted.

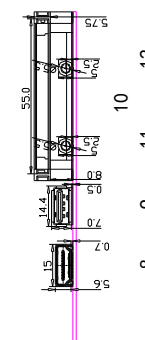
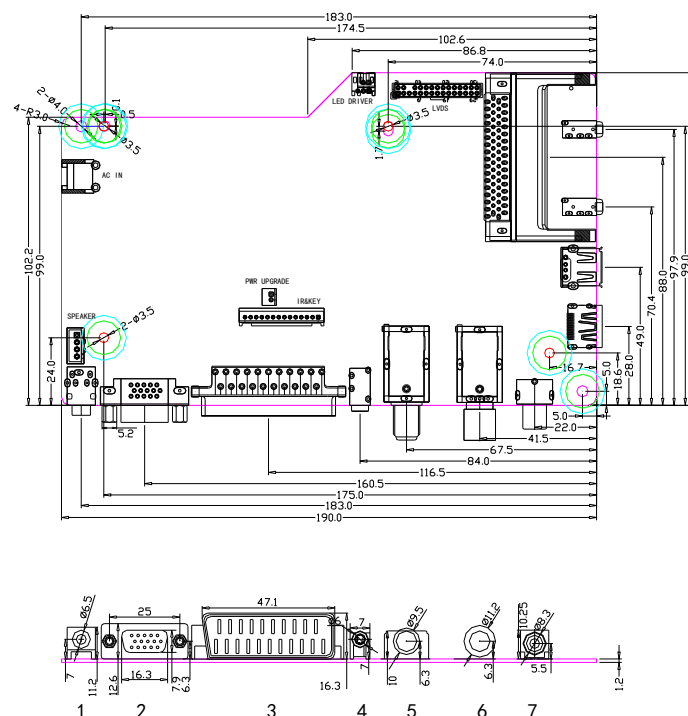
喇叭线必须使用双绞方式。

Note5: Speaker line cannot be parallel to the AC line, if they are parallel to each other, the distance should not be less than 8cm.

喇叭线和整机 AC 线不可以平行走线，如果平行走线，距离不可小于 8cm。

配置 一【PA63_E1】	
Ver.	A0
NO.	Description
1	EARPHONE OUT
2	VGA IN
3	SCART
4	PC AUDIO IN
5	RF IN(S/S/S2)
6	RF IN(T/T/T2)
7	COAX OUT
8	HDMI IN
9	USB IN
10	CI SLOT
11	AV OR YPbPr-L/R IN(Mini)
12	YPbPr IN(Mini)

PCB Tolerance		Connector Tolerance (Unless Otherwise Stated)
PCB size	±0.15mm	
PCB thickness	≤1.0mm	±0.3mm
	>1.0mm	

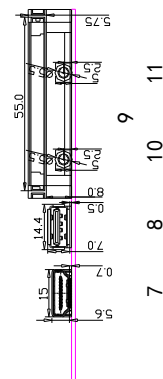
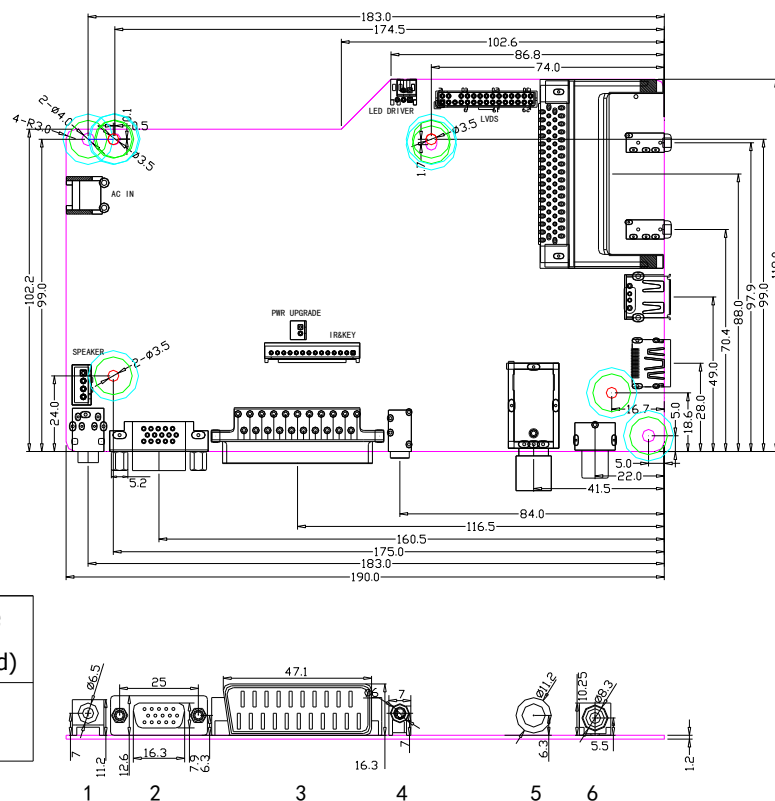


定位孔禁布区(多余的删除)	
	凸包
	底层限高3mm(地脚除外)
	顶底层禁布(地网络除外)

1. 除特殊说明区域，顶层器件最高14.5mm、底层最高4mm
2. 公板开模请以红色孔位为准

配置 二【PA63_E2】	
Ver.	A0
NO.	Description
1	EARPHONE OUT
2	VGA IN
3	SCART
4	PC AUDIO IN
5	RF IN(T/T2)
6	COAX OUT
7	HDMI IN
8	USB IN
9	CI SLOT
10	AV OR YPbPr-L/R IN(Mini)
11	YPbPr IN(Mini)

PCB Tolerance			Connector Tolerance
PCB size	±0.15mm		(Unless Otherwise Stated)
PCB thickness	≤1.0mm	±0.1mm	±0.3mm
	>1.0mm	±10%	



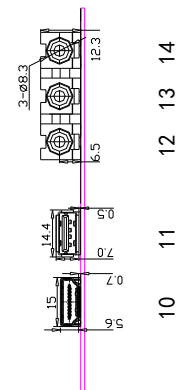
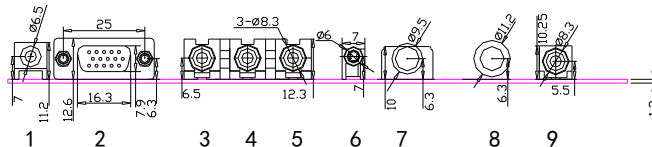
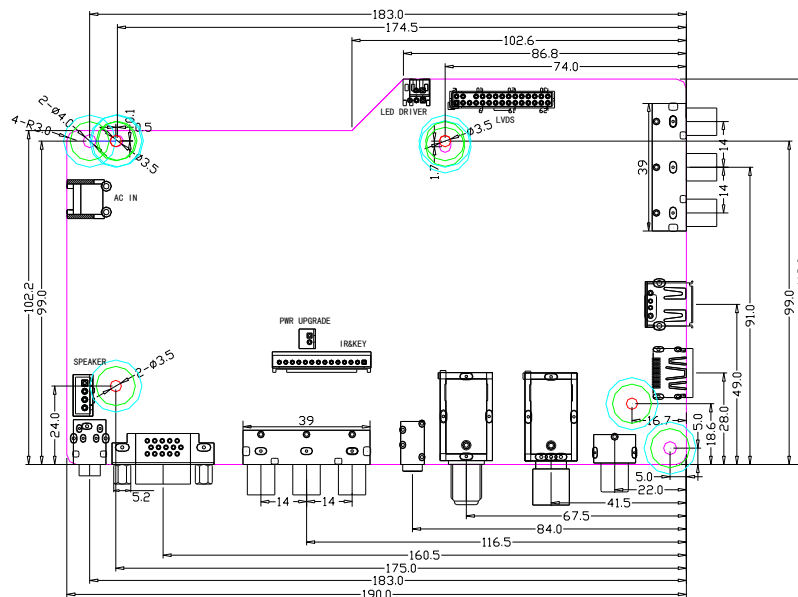
定位孔禁布区(多余的删除)	
	凸包
○	底层限高3mm(地脚除外)
○	顶底层禁布(地网络除外)

NOTE:

1. 除特殊说明区域，顶层器件最高14.5mm、底层最高4mm
2. 公板开模请以红色孔位为准

配置 三【PA63_A1】	
Ver.	A0
NO.	Description
1	EARPHONE OUT
2	VGA IN
3	CVBS IN
4	CVBS/YPbPr LIN
5	CVBS/YPbPr RIN
6	PC AUDIO IN
7	RF IN(S/S2)
8	RF IN(T/T2)
9	COAX OUT
10	HDMI IN
11	USB IN
12	YPbPr-Y IN
13	YPbPr-Pb IN
14	YPbPr-Pr IN

PCB Tolerance		Connector Tolerance (Unless Otherwise Stated)
PCB size	±0.15mm	
PCB thickness	≤1.0mm ±0.1mm	±0.3mm
	>1.0mm ±10%	

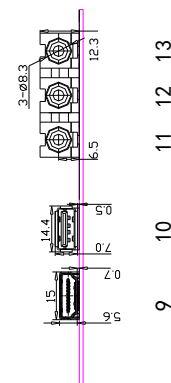
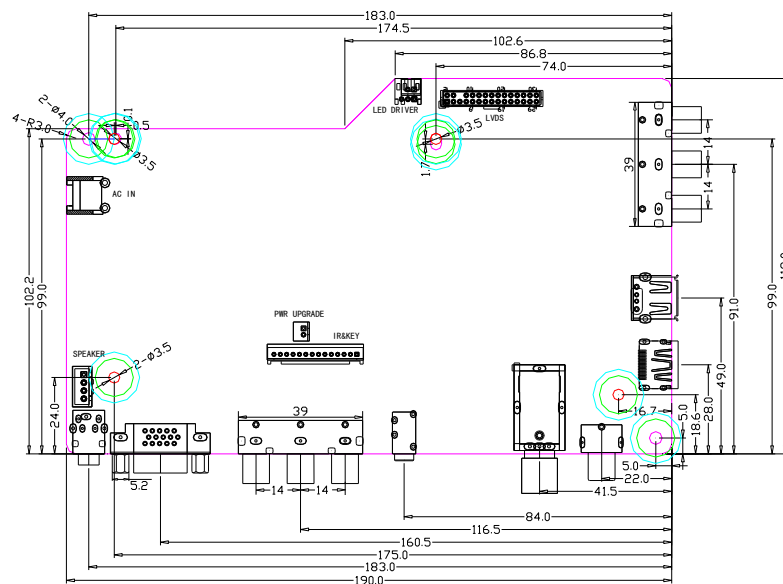


定位孔禁布区(多余的删除)	
	凸包
	底层限高3mm(地脚除外)
	顶底层禁布(地网络除外)

NOTE:

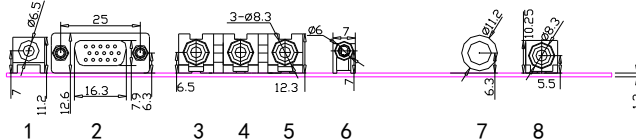
1. 除特殊说明区域，顶层器件最高14.5mm、底层最高4mm
2. 公板开模请以红色孔位为准

配置 四【PA63_A2】	
Ver.	A0
No.	Description
1	EARPHONE OUT
2	VGA IN
3	CVBS IN
4	CVBS/YPbPr L IN
5	CVBS/YPbPr R IN
6	PC AUDIO IN
7	RF IN (T/T2)
8	COAX OUT
9	HDMI IN
10	USB IN
11	YPbPr-Y IN
12	YPbPr-Pb IN
13	YPbPr-Pr IN



定位孔禁布区(多余的删除)

	凸包
	底层限高3mm(地脚除外)
	顶底层禁布(地网络除外)



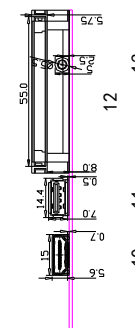
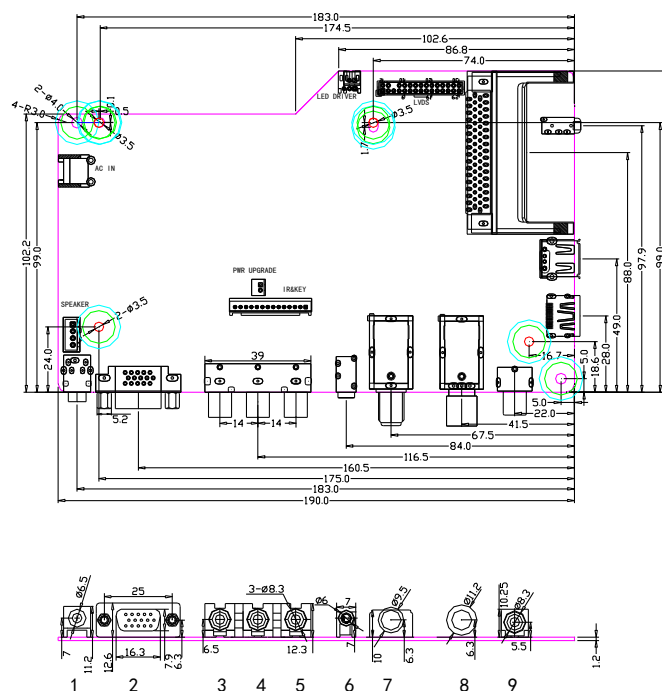
NOTE:

- 除特殊说明区域，顶层器件最高14.5mm、底层最高4mm
- 公板开模请以红色孔位为准

QR-ZZPJ-017

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配置 五【PA63_A3】	
Ver.	A0
NO.	Description
1	EARPHONE OUT
2	VGA IN
3	CVBS IN
4	CVBS/YPbPr LIN
5	CVBS/YPbPr RIN
6	PC AUDIO IN
7	RF IN(S/S2)
8	RF IN(T/T2)
9	COAX OUT
10	HDMI IN
11	USB IN
12	CI SLOT
13	YPbPr IN(Mini)



PCB Tolerance		Connector Tolerance (Unless Otherwise Stated)
PCB size	±0.15mm	
PCB thickness	≤1.0mm ±0.1mm	±0.3mm
	>1.0mm ±10%	

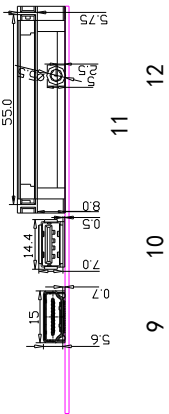
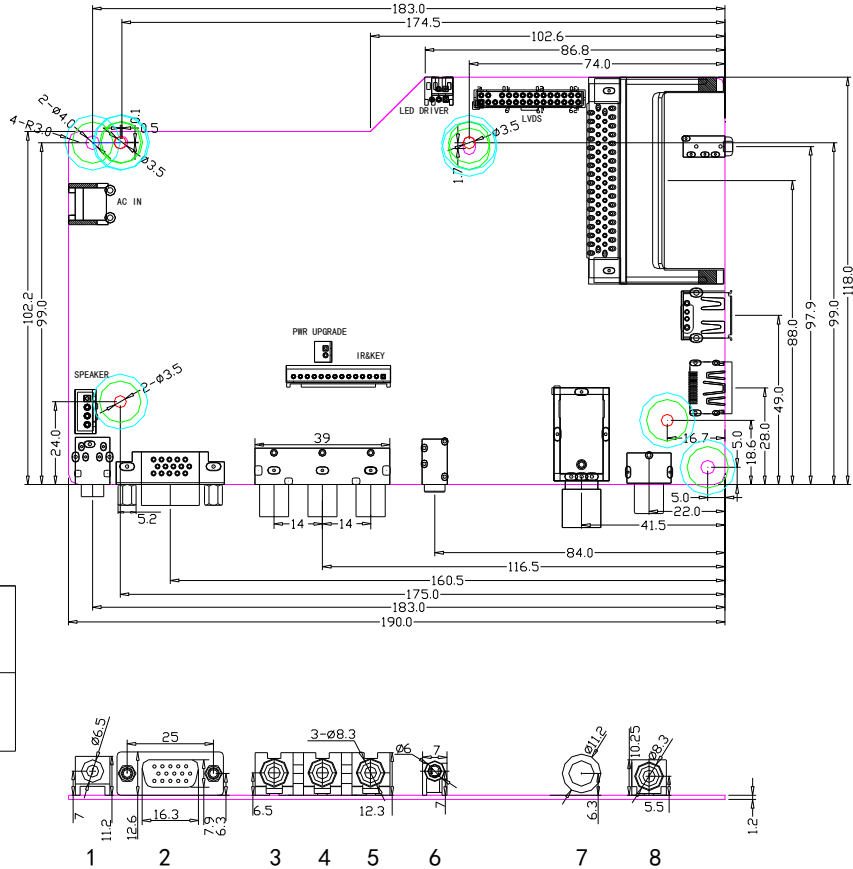
定位孔禁布区(多余的删除)	
	凸包
	底层限高3mm(地脚除外)
	顶底层禁布(地网络除外)

NOTE:

- 除特殊说明区域，顶层器件最高14.5mm、底层最高4mm
- 公板开模请以红色孔位为准

配置 六 【PA63_A4】	
Ver.	A0
NO.	Description
1	EARPHONE OUT
2	VGA IN
3	CVBS IN
4	CVBS/YPbPr LIN
5	CVBS/YPbPr RIN
6	PC AUDIO IN
7	RF IN(T/T2)
8	COAX OUT
9	HDMI IN
10	USB IN
11	CI SLOT
12	YPbPr IN(Mini)

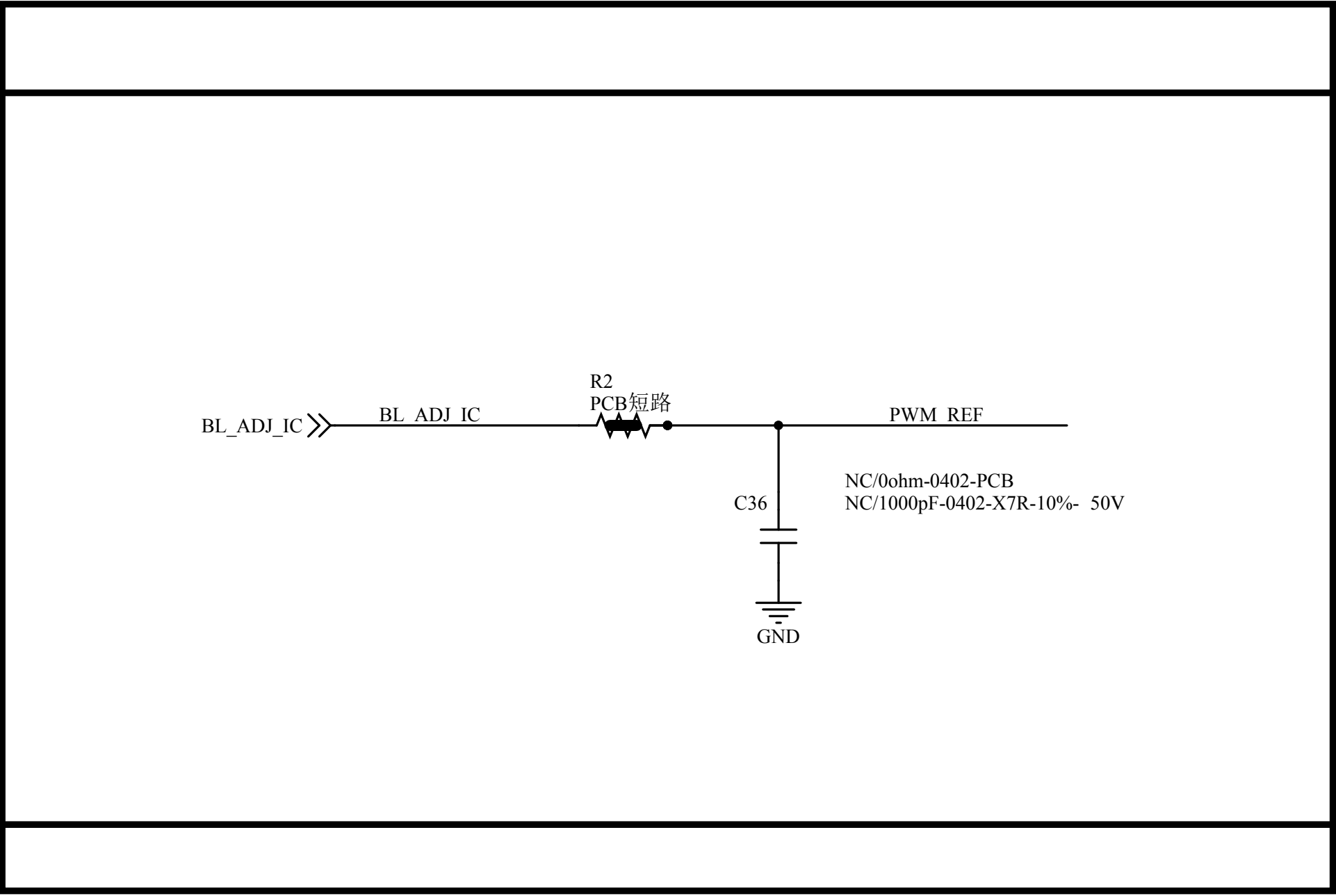
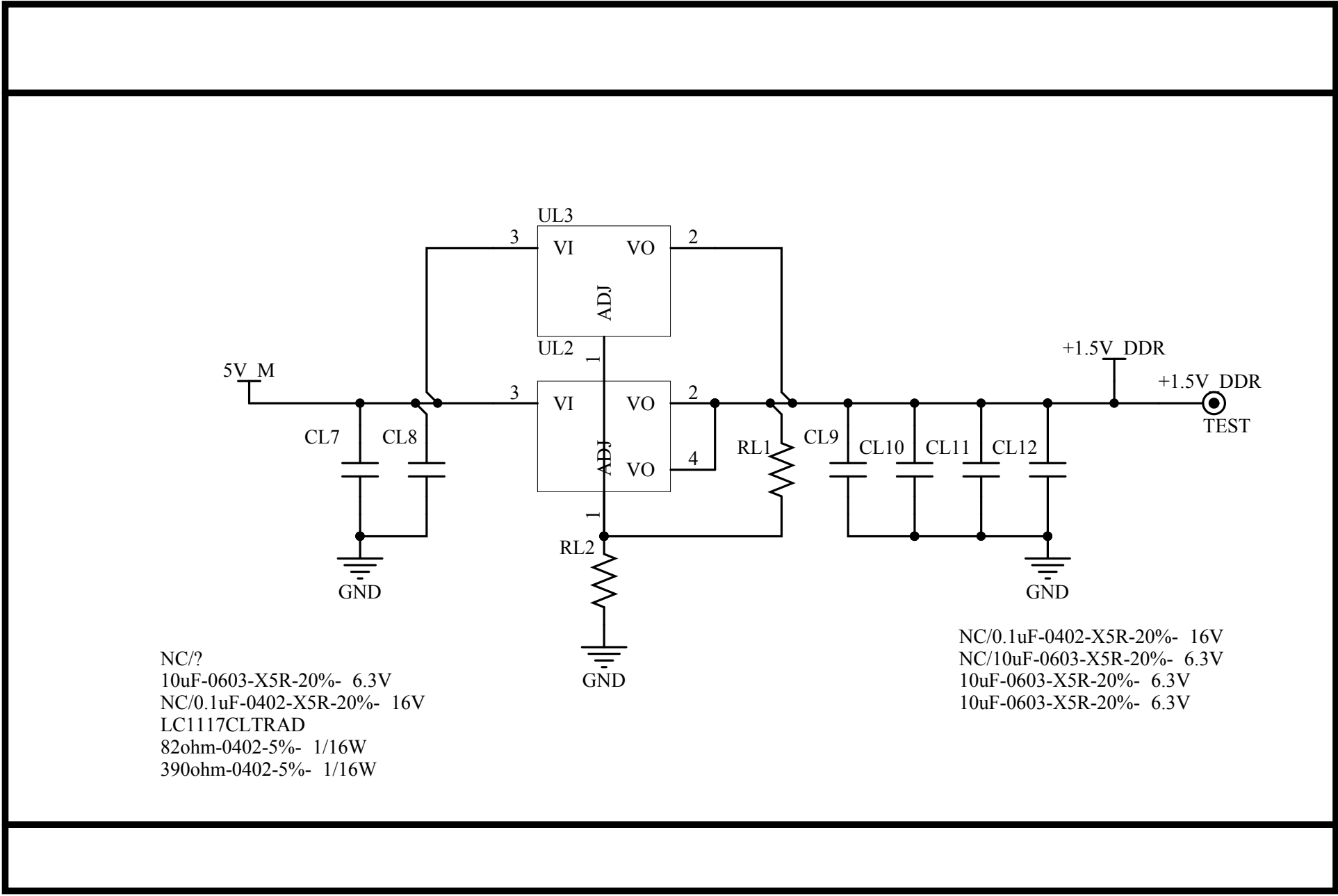
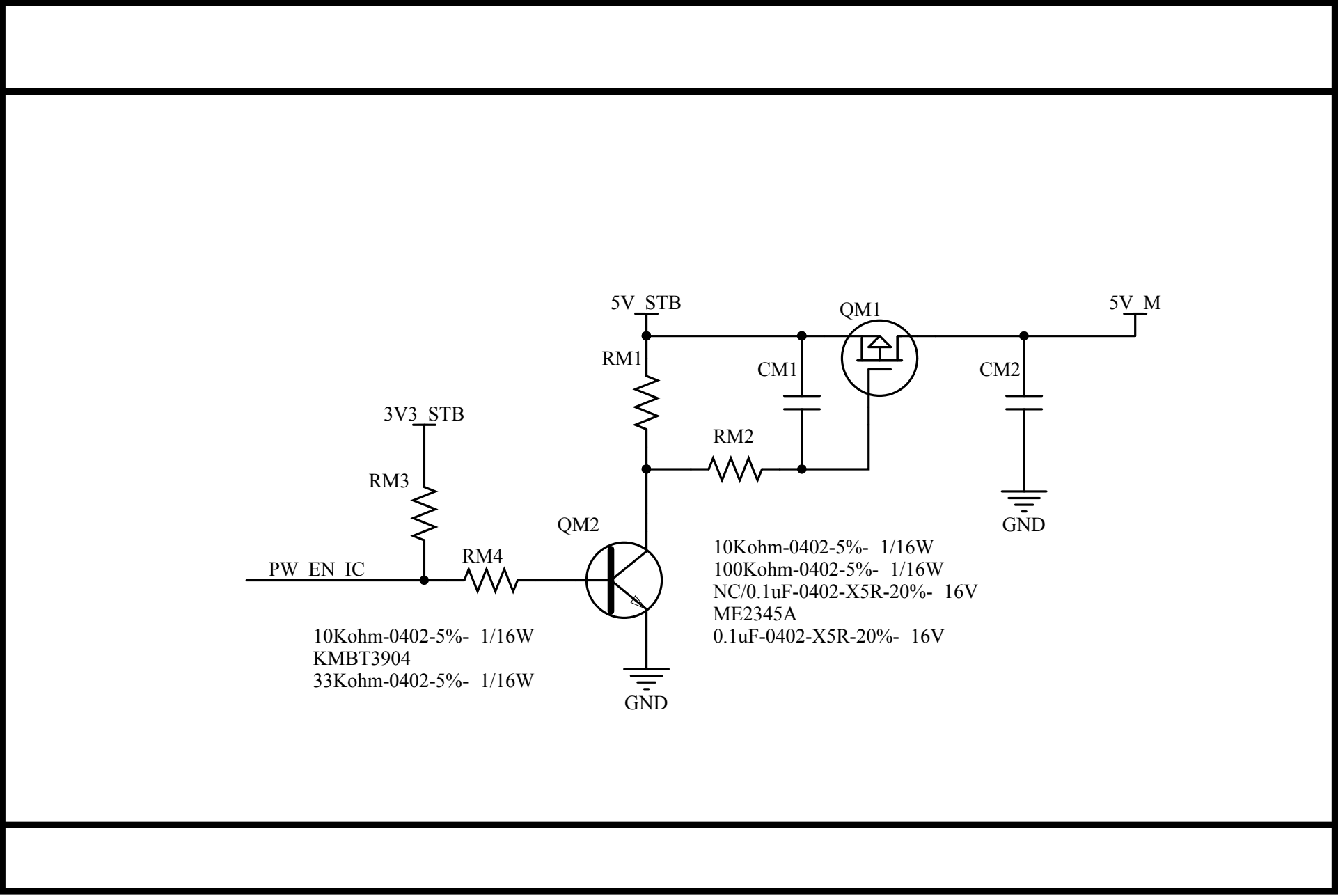
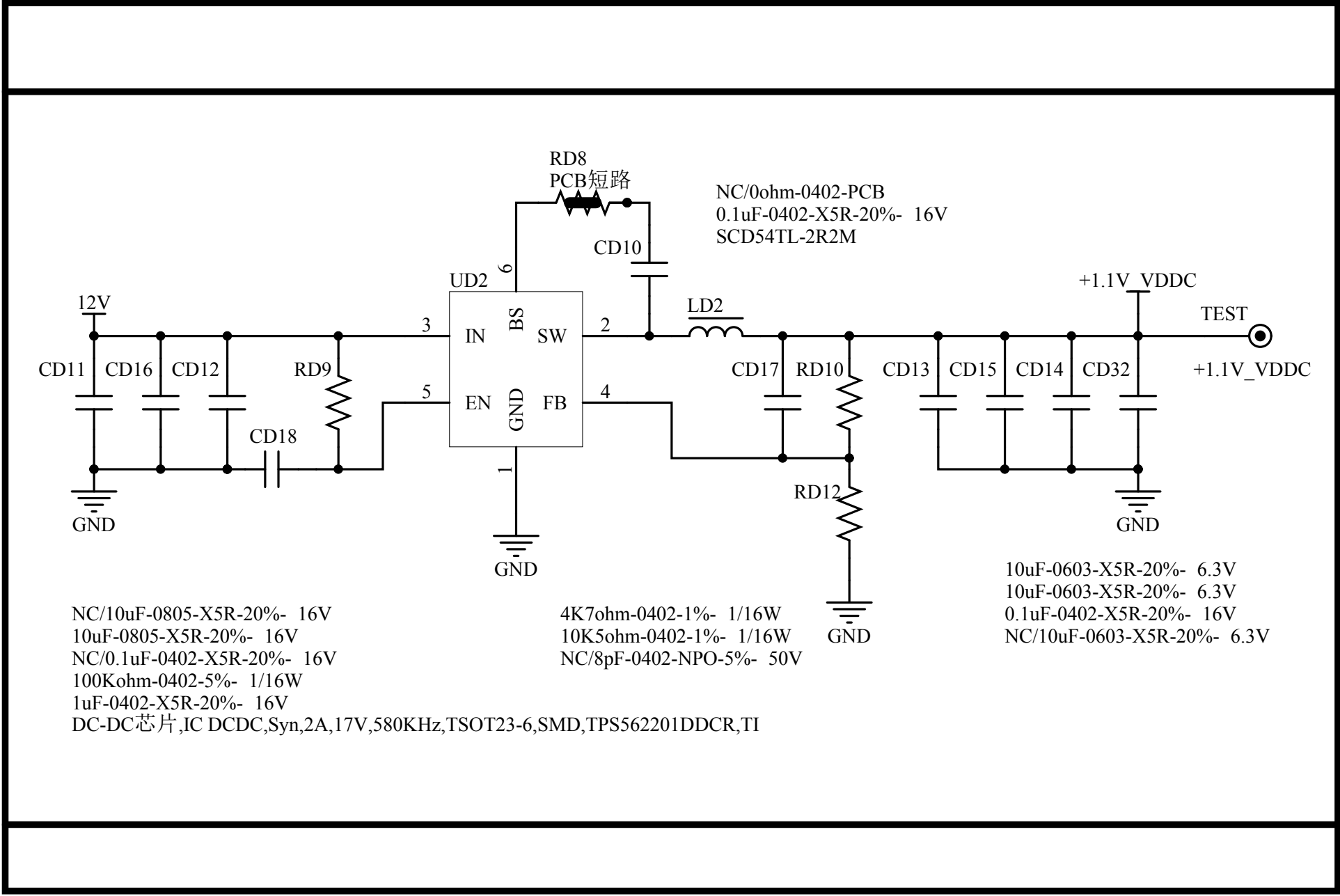
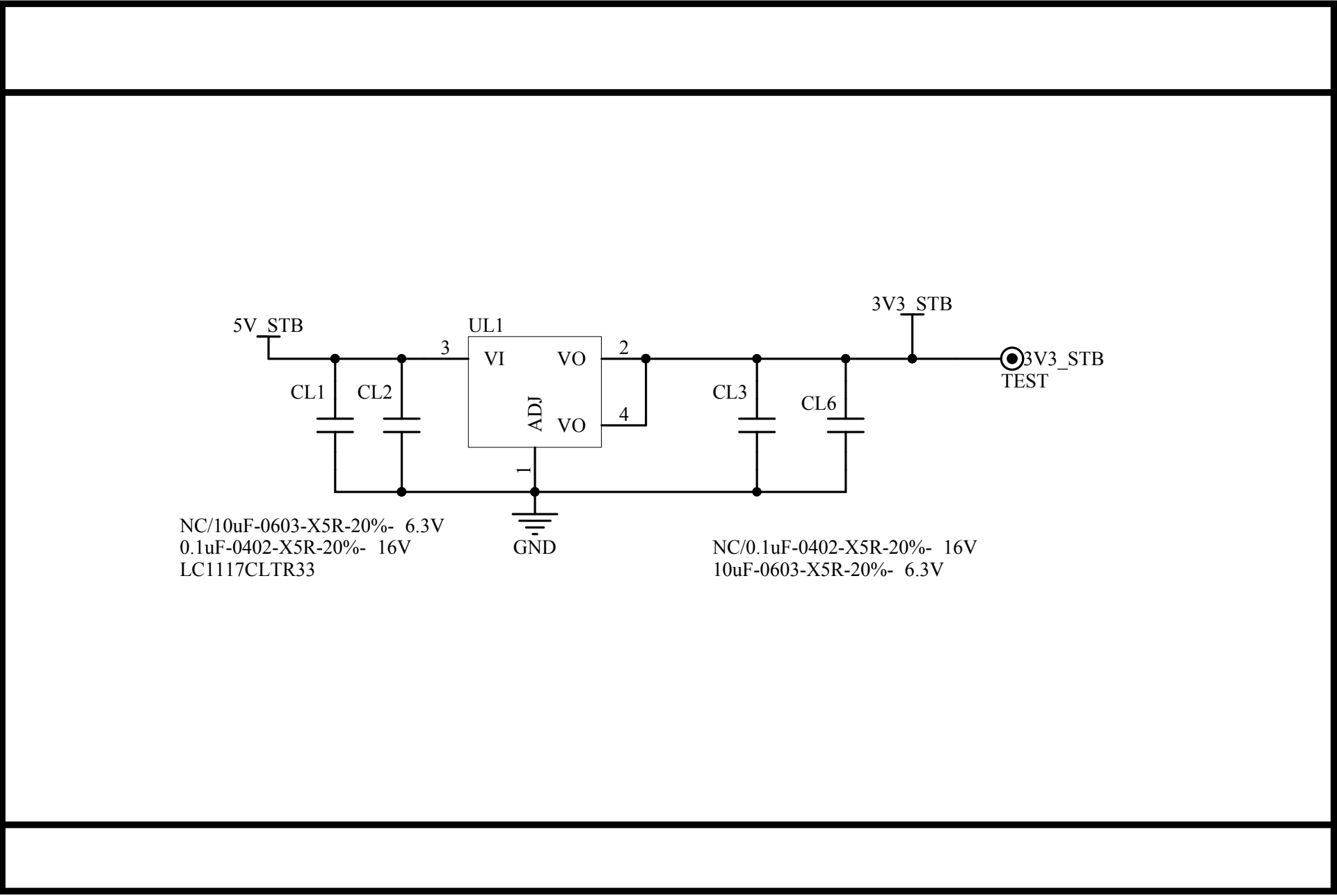
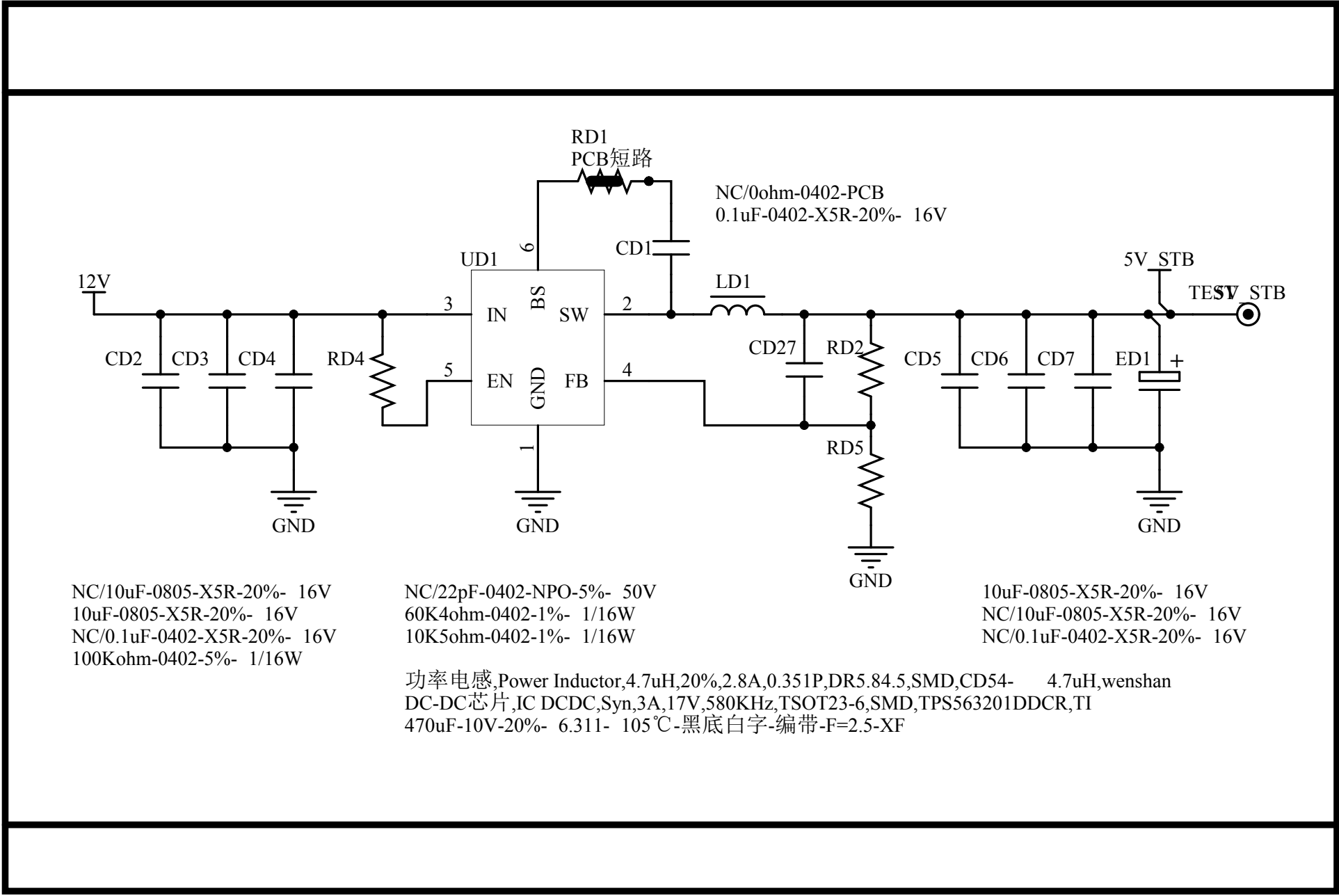
PCB Tolerance		Connector Tolerance (Unless Otherwise Stated)
PCB size	±0.15mm	
PCB thickness	≤1.0mm	±0.3mm
	>1.0mm	



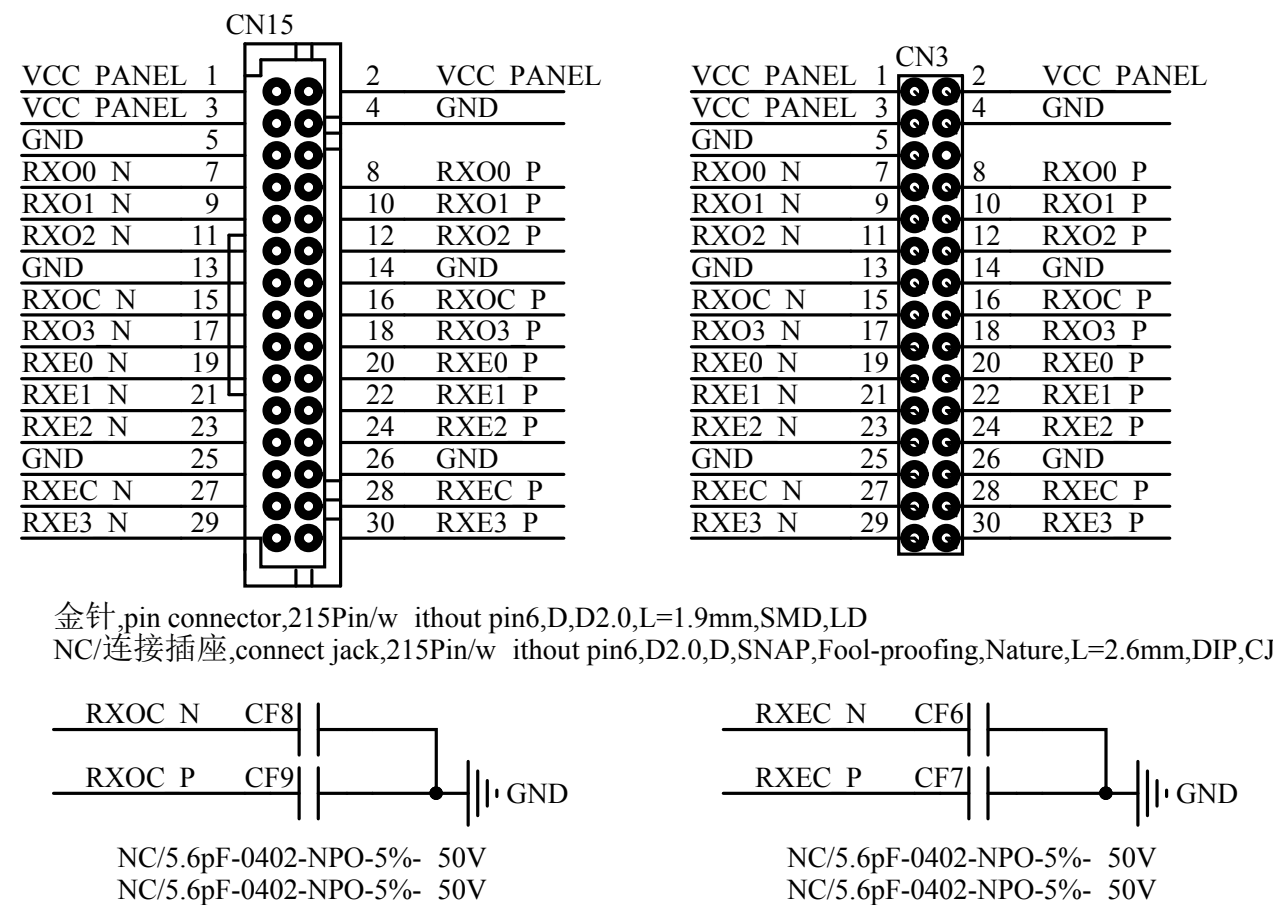
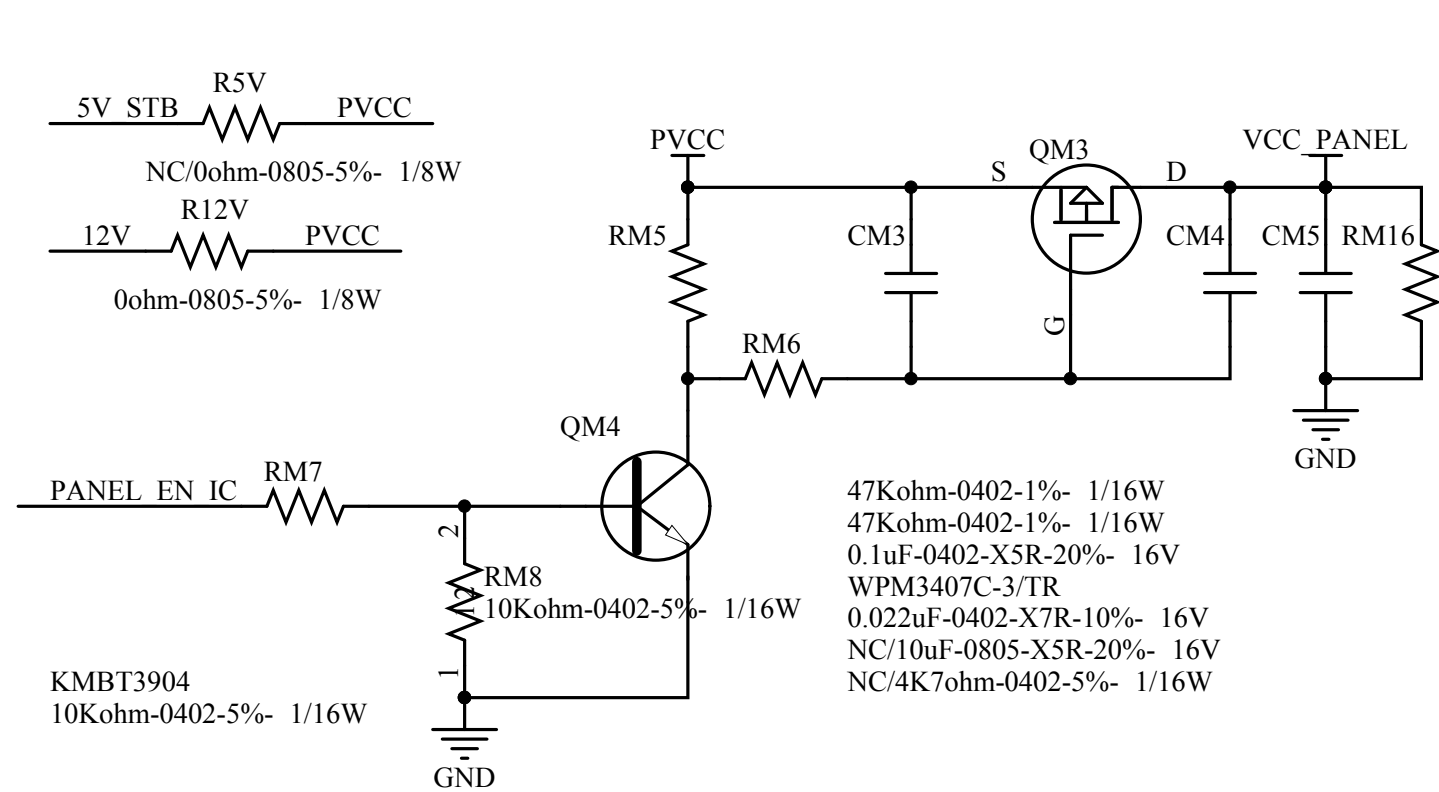
定位孔禁布区(多余的删除)	
	凸包
	底层限高3mm(地脚除外)
	顶底层禁布(地网络除外)

NOTE:

1. 除特殊说明区域，顶层器件最高14.5mm、底层最高4mm
2. 公板开模请以红色孔位为准

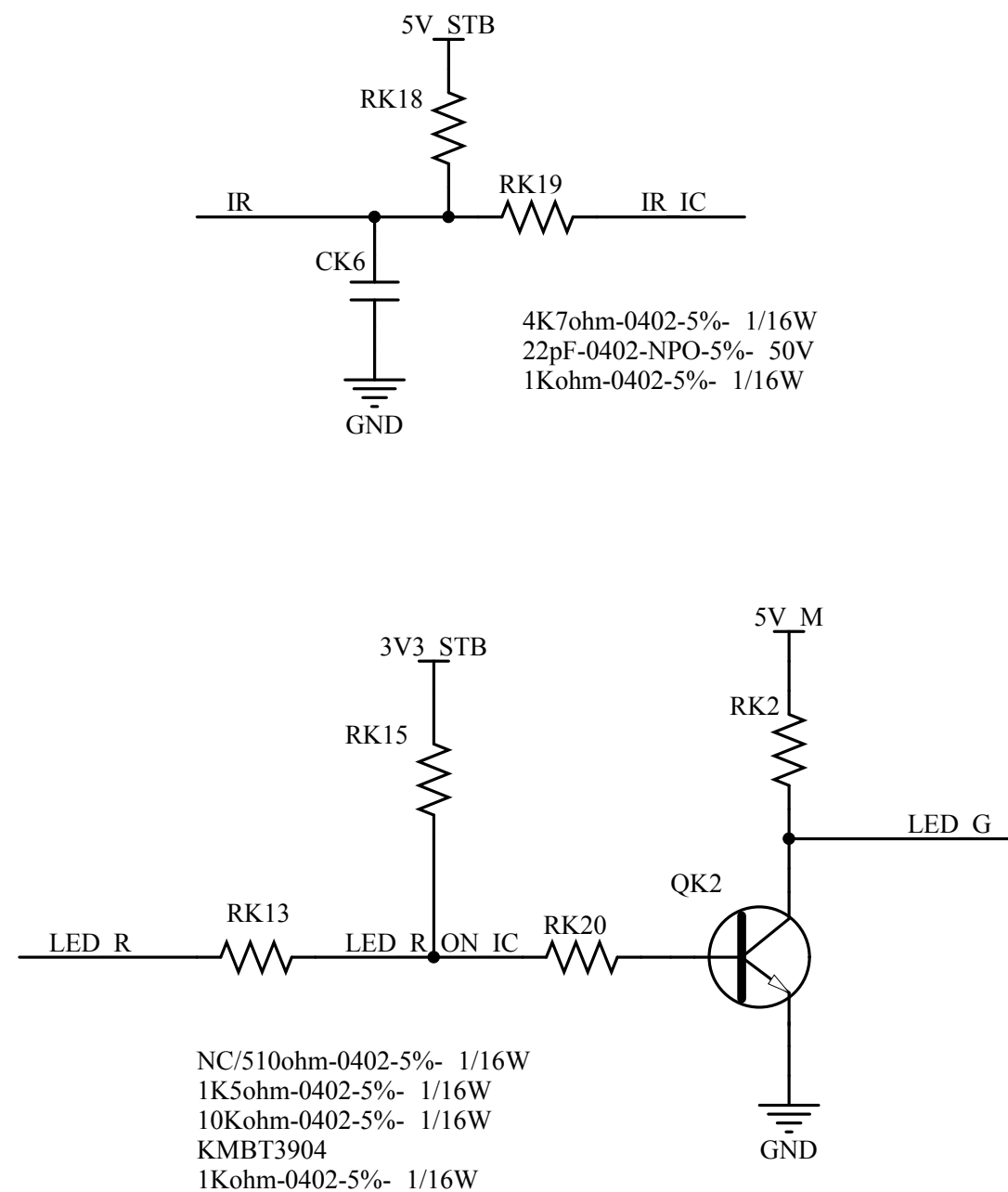
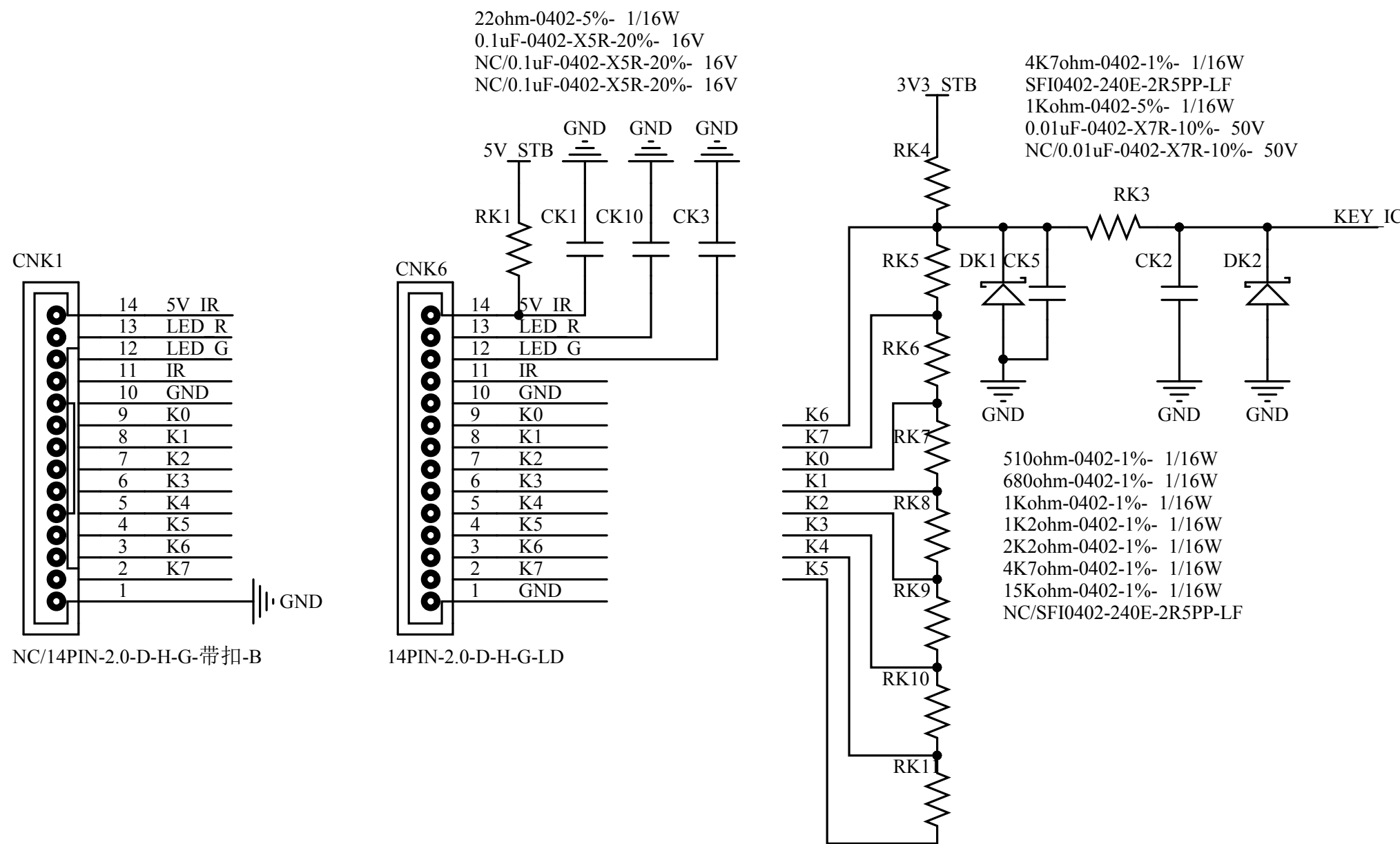


A



B

C



D

A

B

C

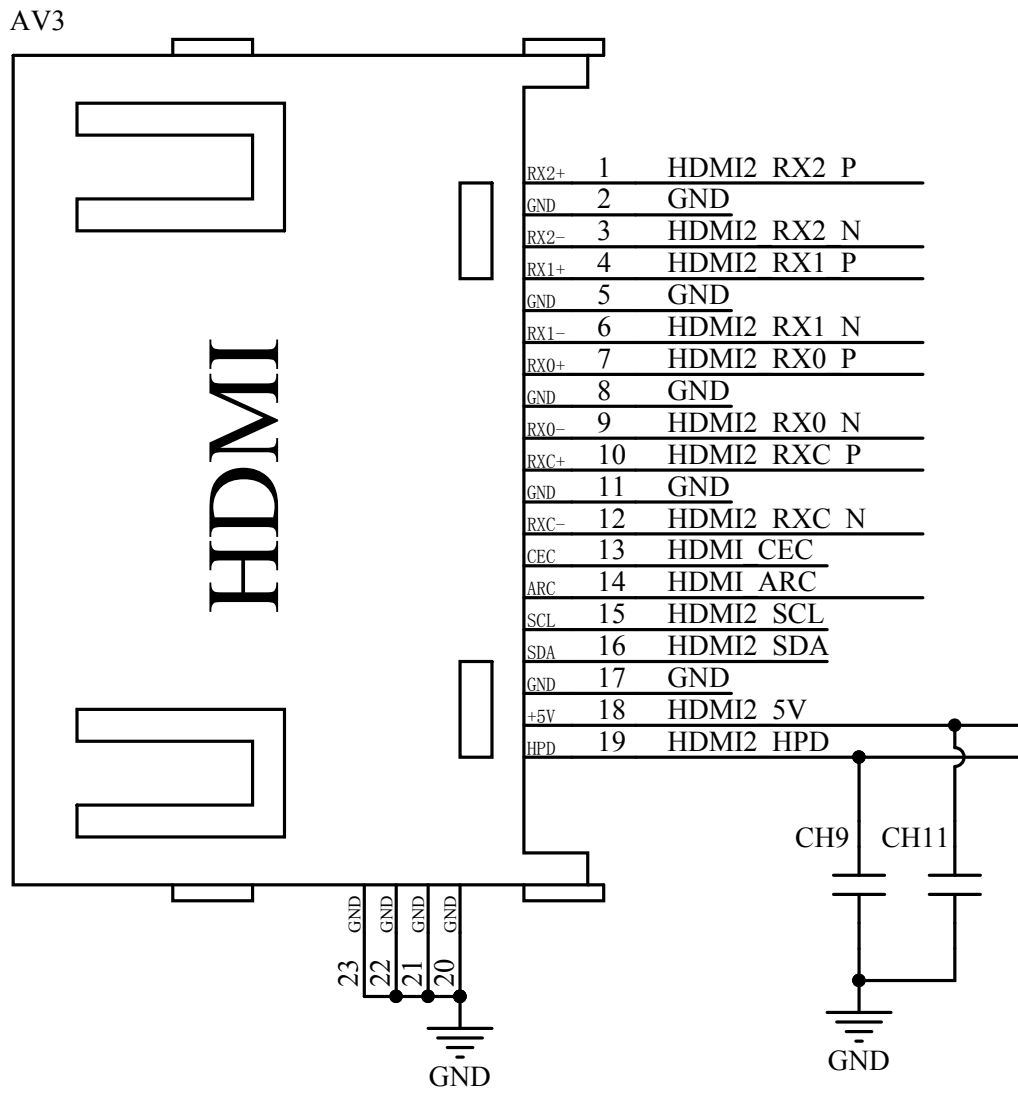
D

A

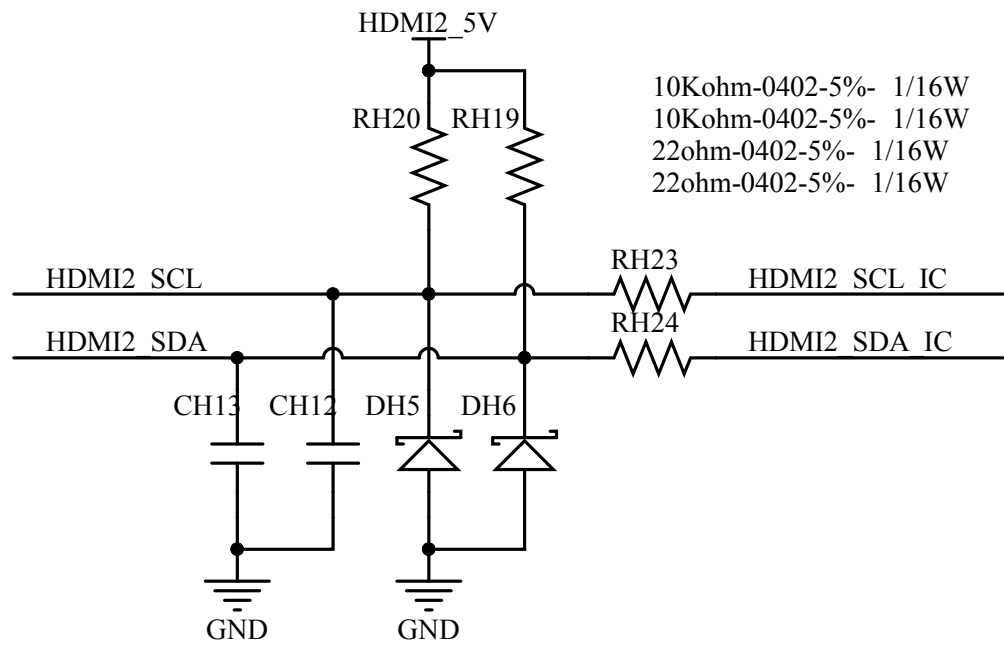
B

A

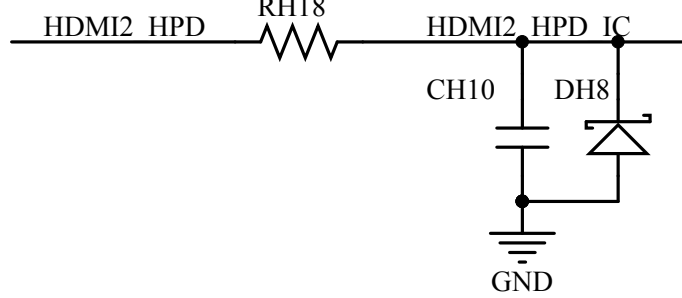
B



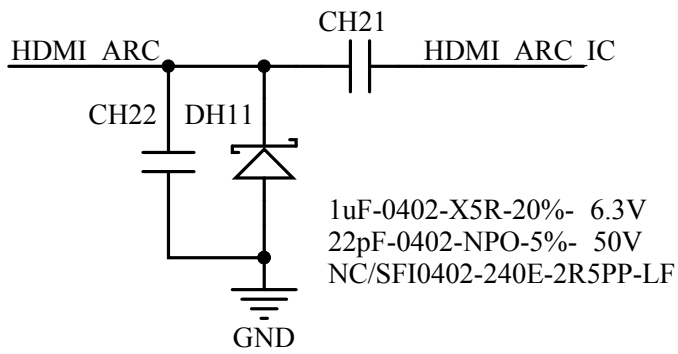
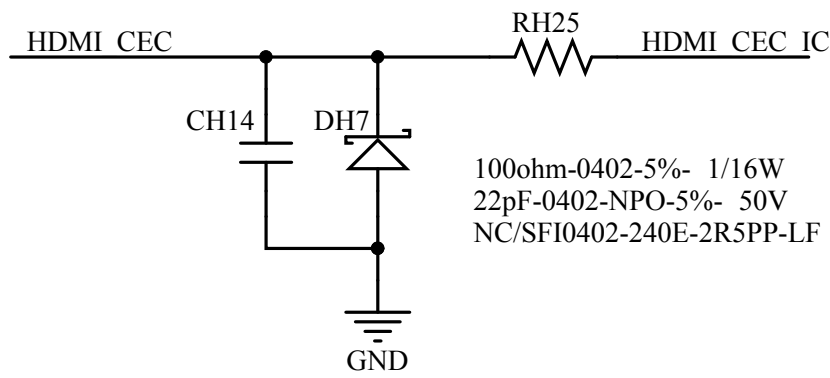
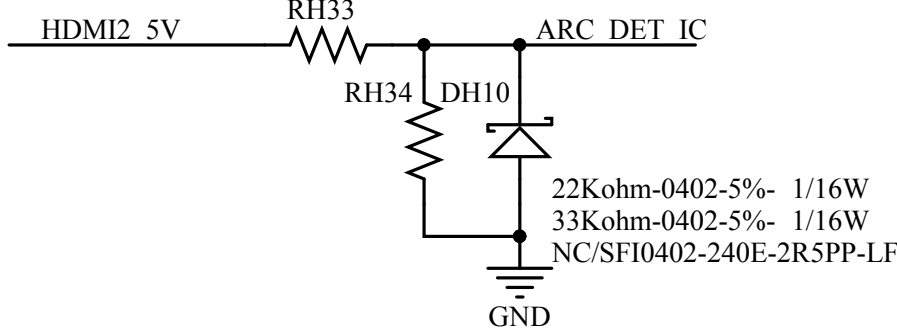
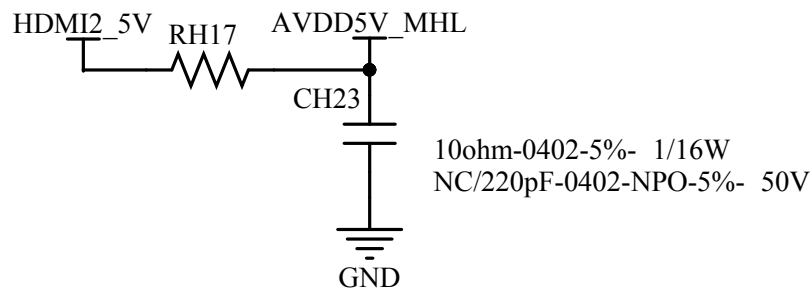
HDMI端子,HDMI Jack,H,SMD,WLDM-068A,WLCO
22pF-0402-NPO-5%- 50V
NC/22pF-0402-NPO-5%- 50V



22pF-0402-NPO-5%- 50V
22pF-0402-NPO-5%- 50V
NC/TVS管,DIO ESD,0.4pF,11V,SOD882,SMD,PESD5V0F1BL,NXP
NC/TVS管,DIO ESD,0.4pF,11V,SOD882,SMD,PESD5V0F1BL,NXP

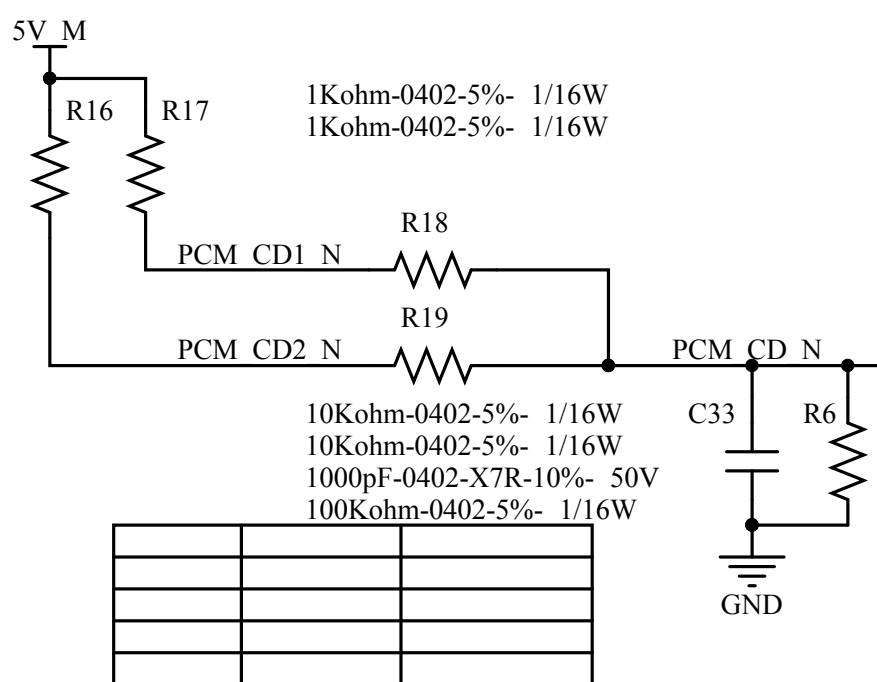
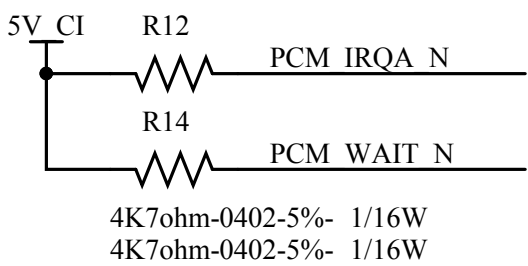
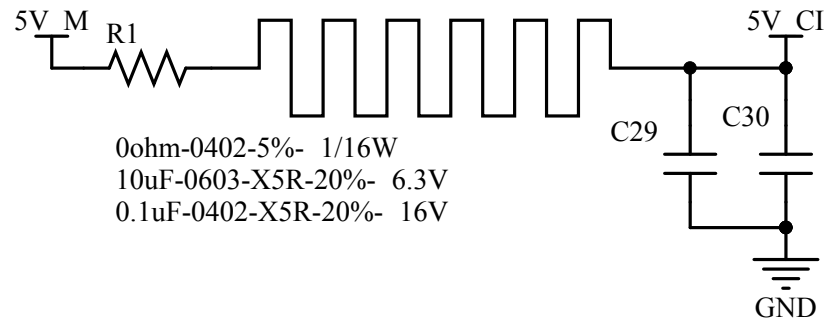
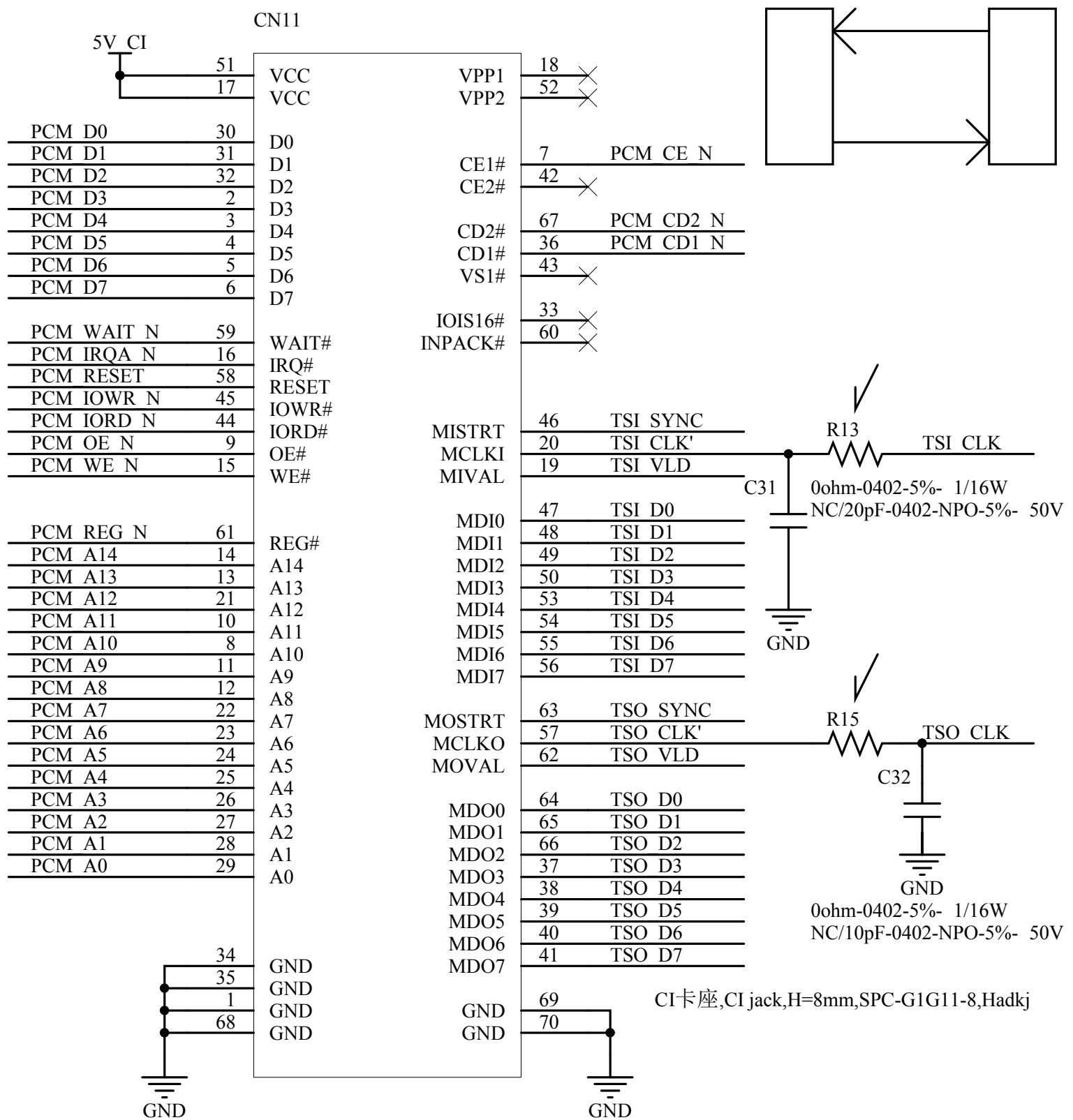


33ohm-0402-5%- 1/16W
NC/22pF-0402-NPO-5%- 50V
NC/TVS管,DIO ESD,0.4pF,11V,SOD882,SMD,PESD5V0F1BL,NXP



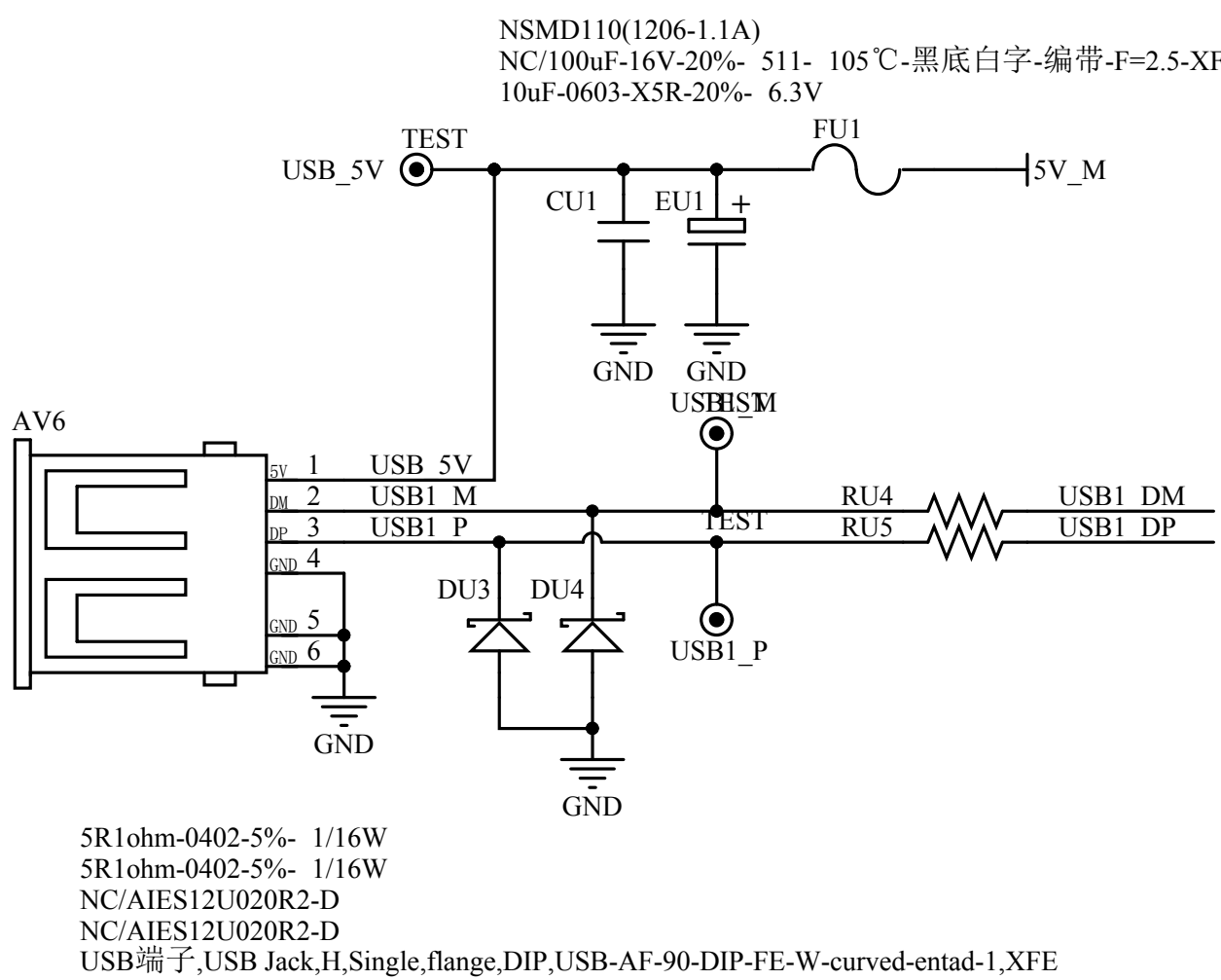
C

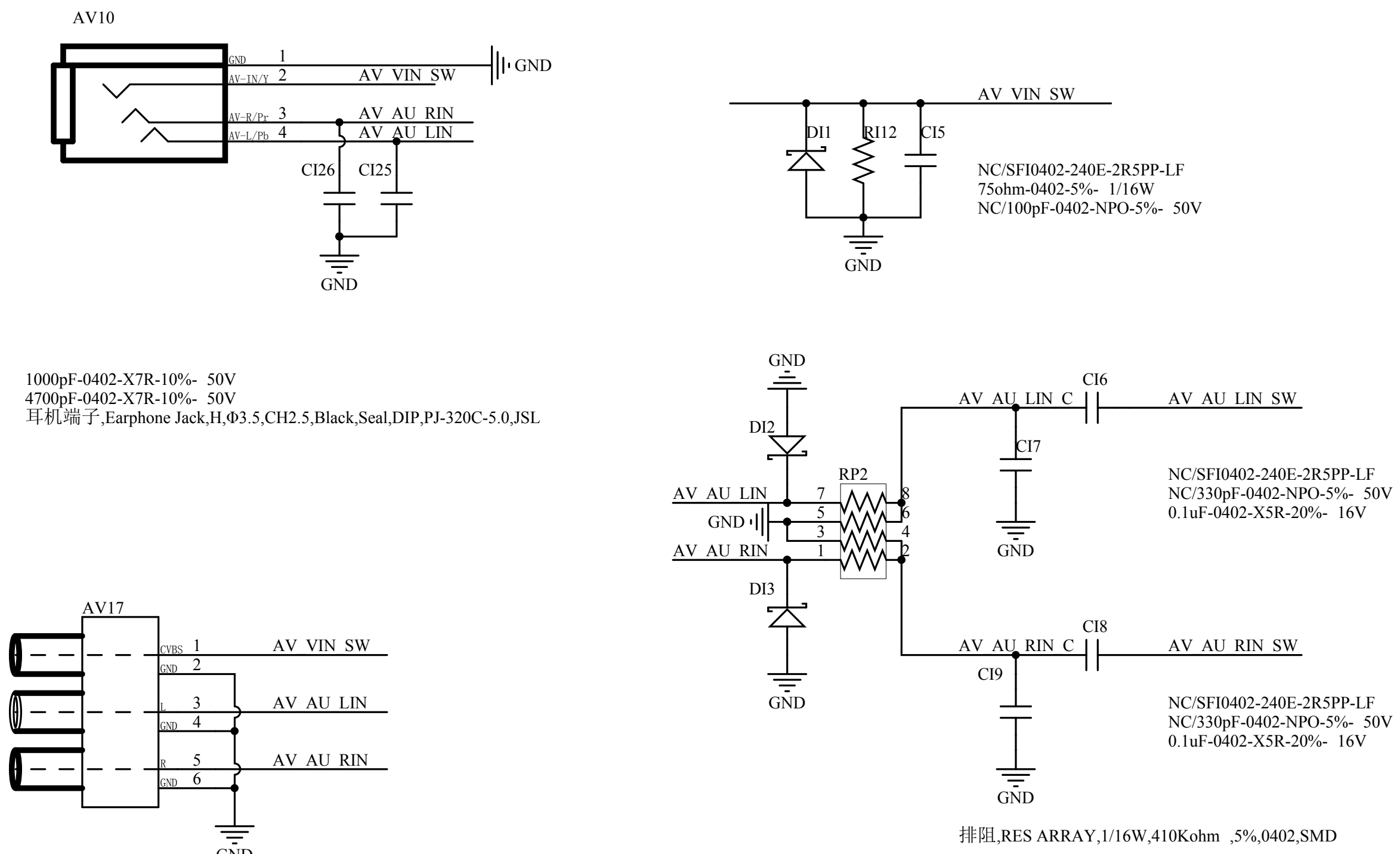
C



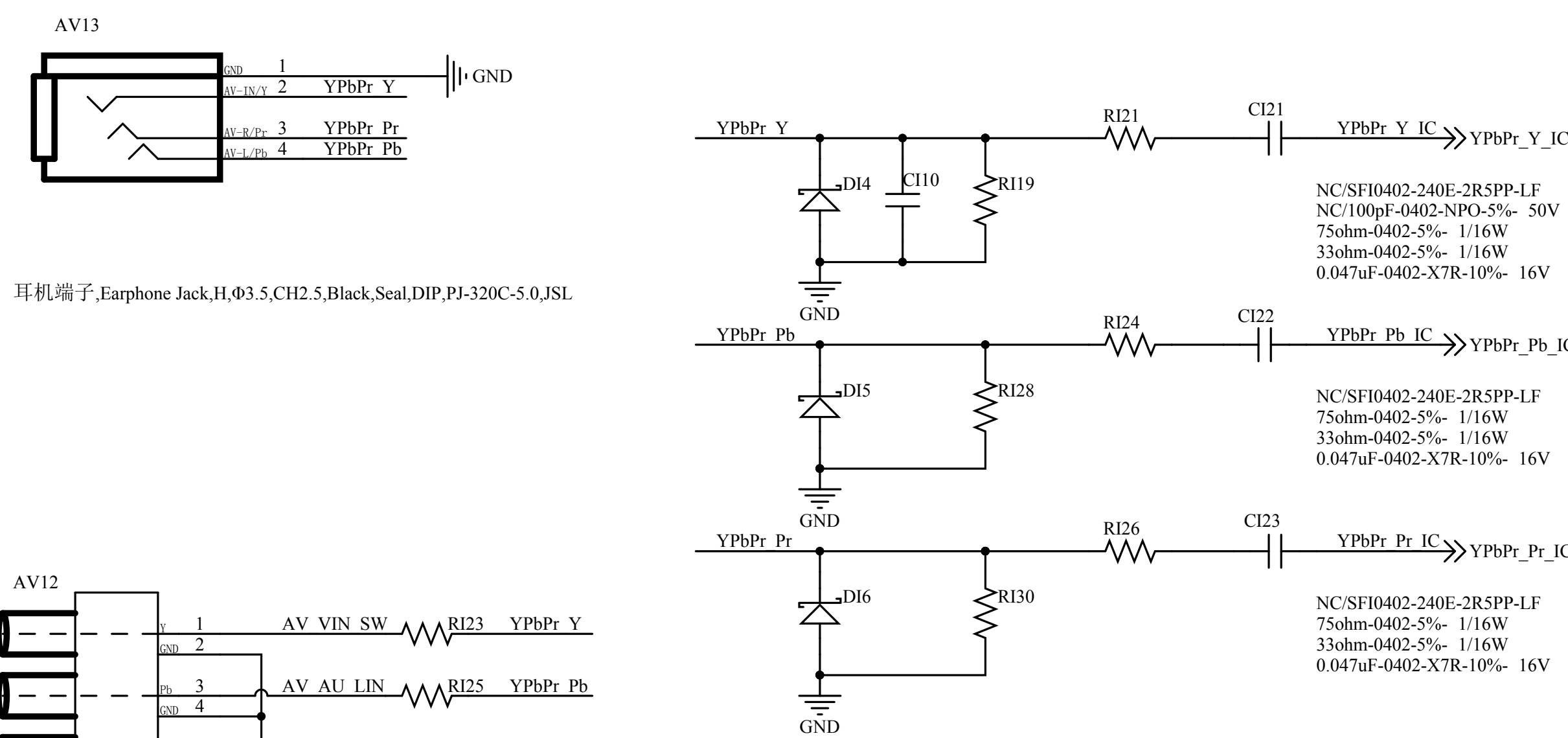
D

D

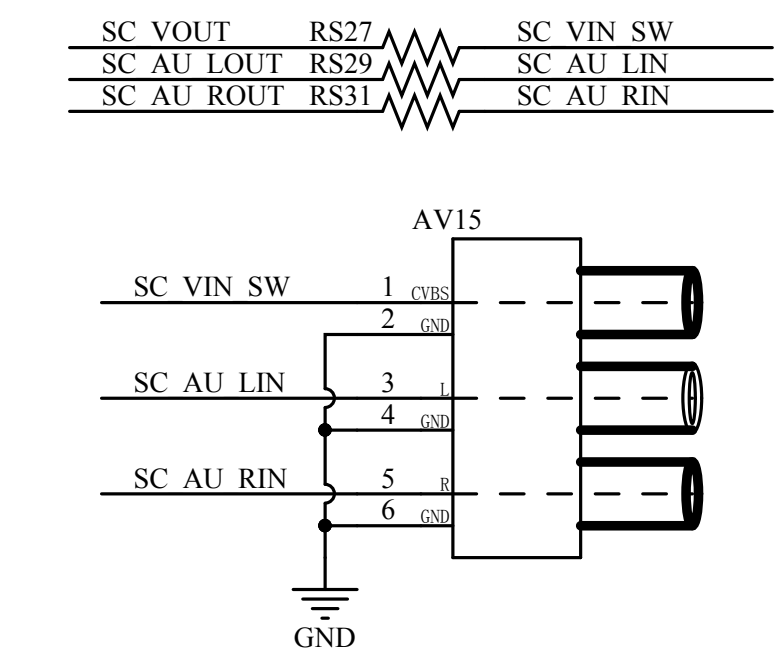
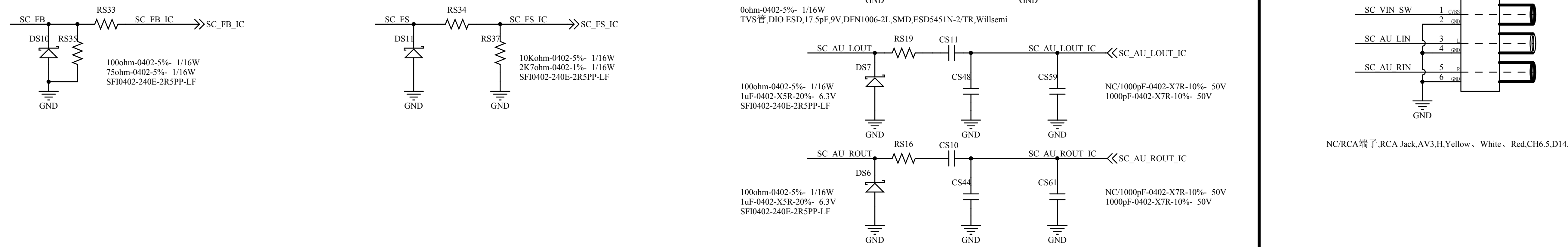
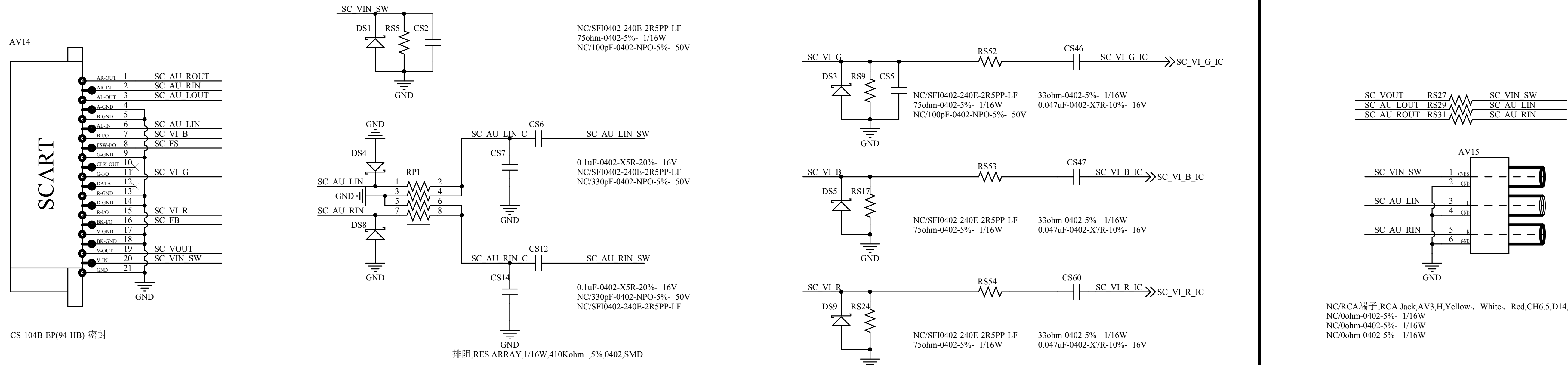




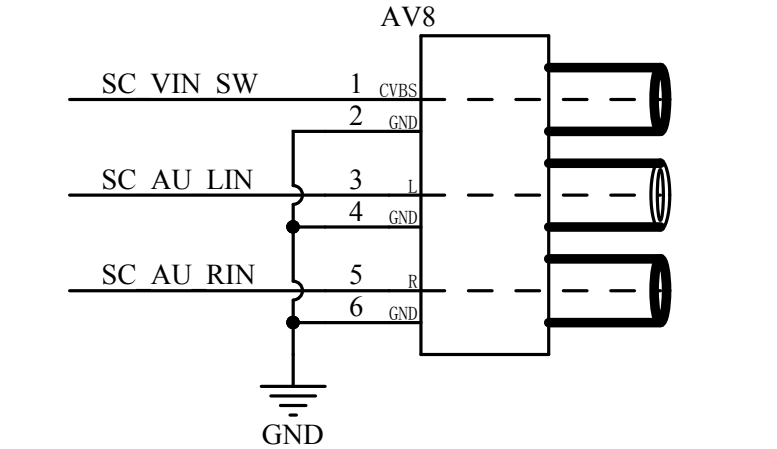
NC/RCA端子,RCA Jack,AV3,H,Yellow、White、Red,CH6.5,D14,Seal,DIP,RCA-338M-EP-01-S,CS



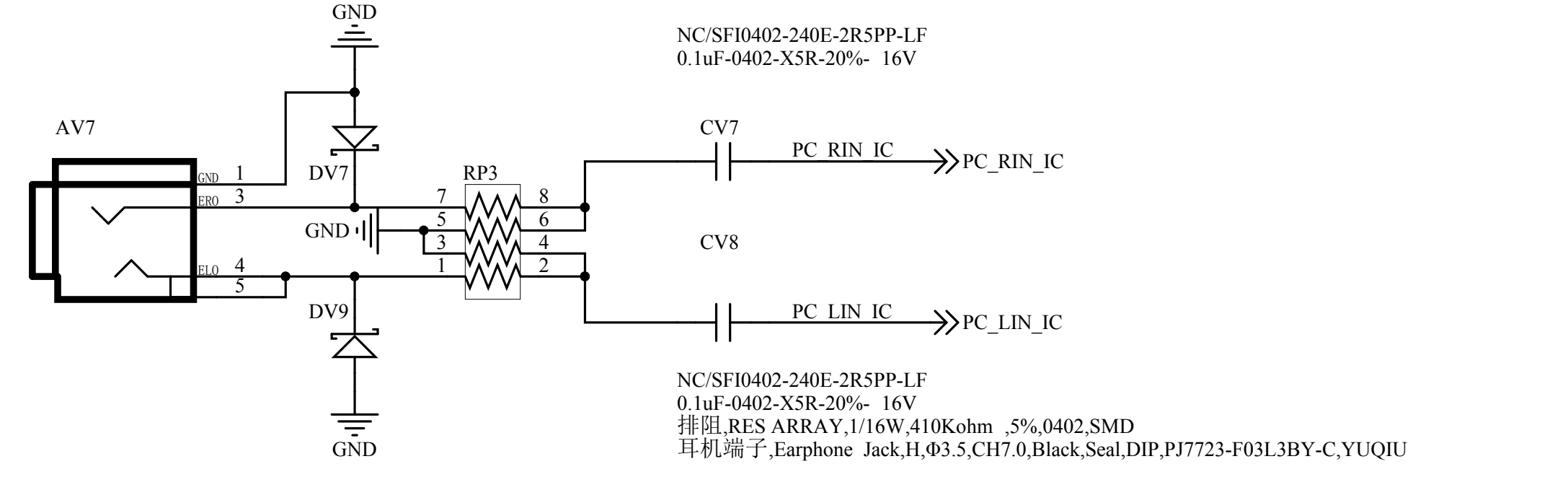
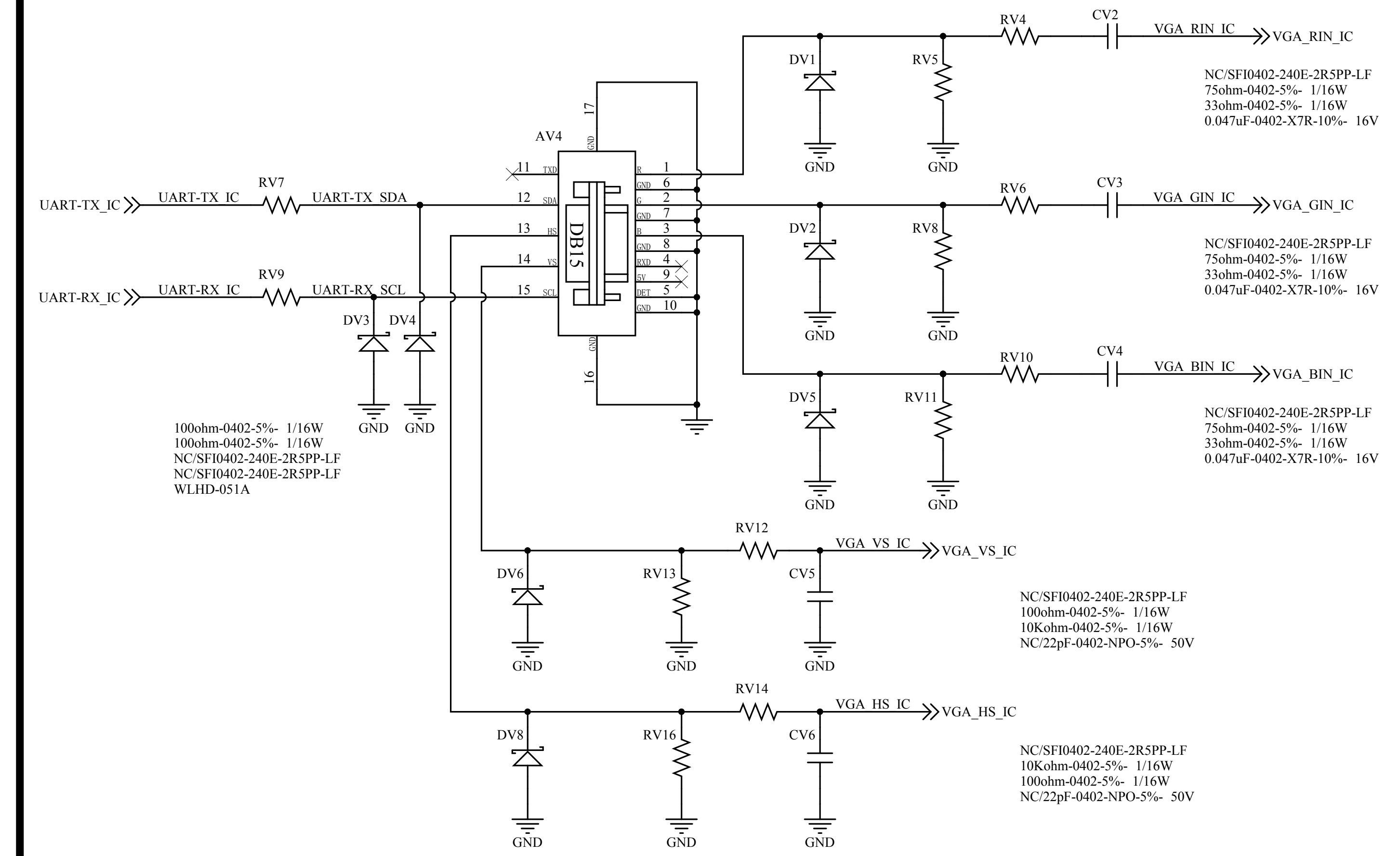
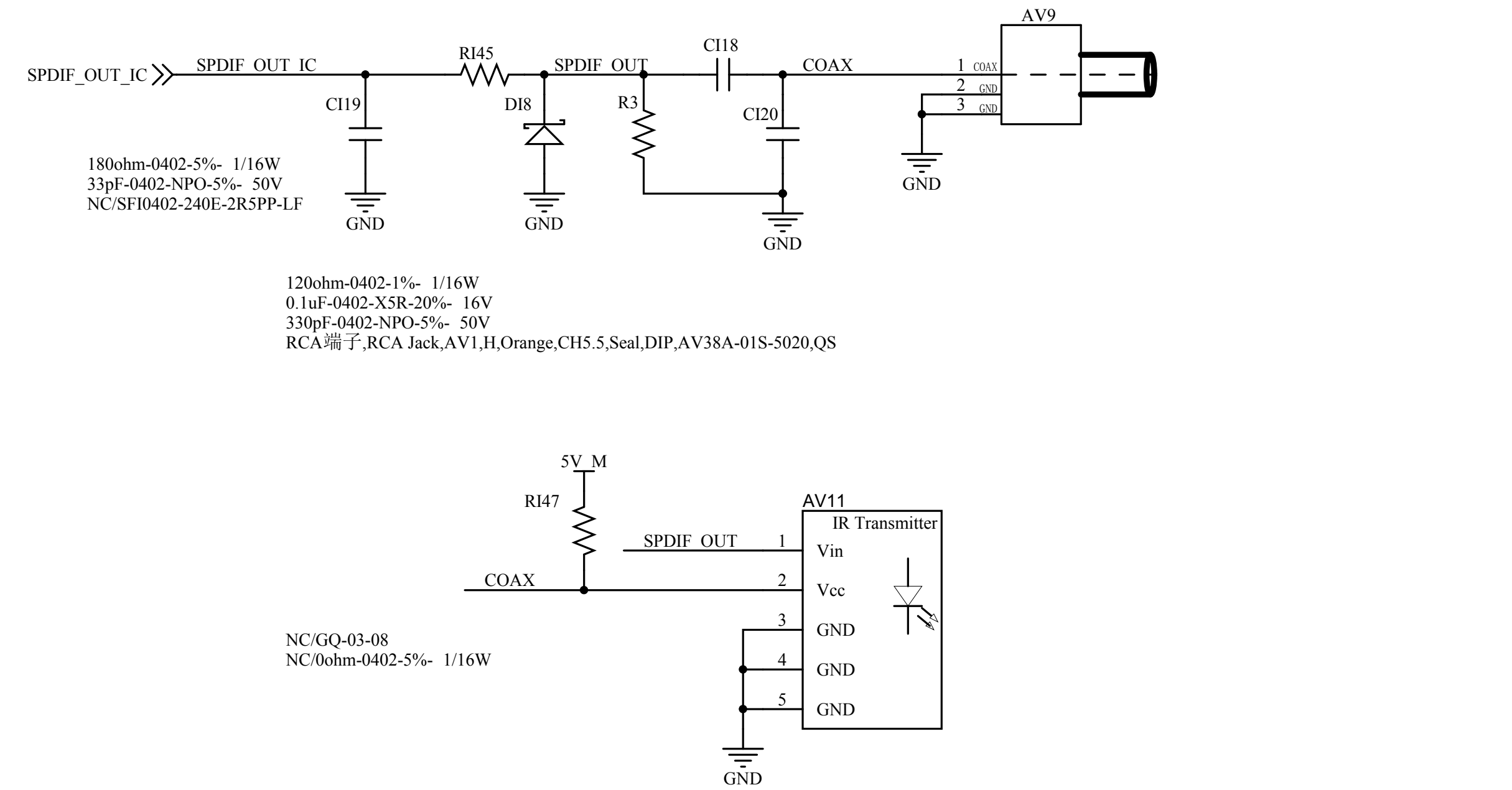
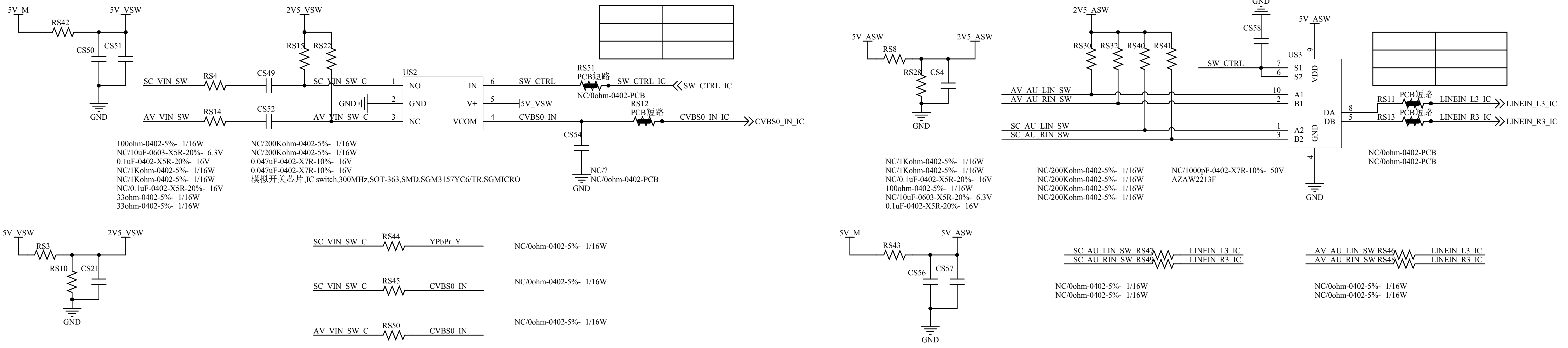
NC/0ohm-0402-5%- 1/16W
NC/0ohm-0402-5%- 1/16W
NC/0ohm-0402-5%- 1/16W
NC/RCA端子,RCA Jack,AV3,H,Green、Blue、Red,CH6.5,D14,Seal,DIP,RCA-338M-EP-04-S,CS

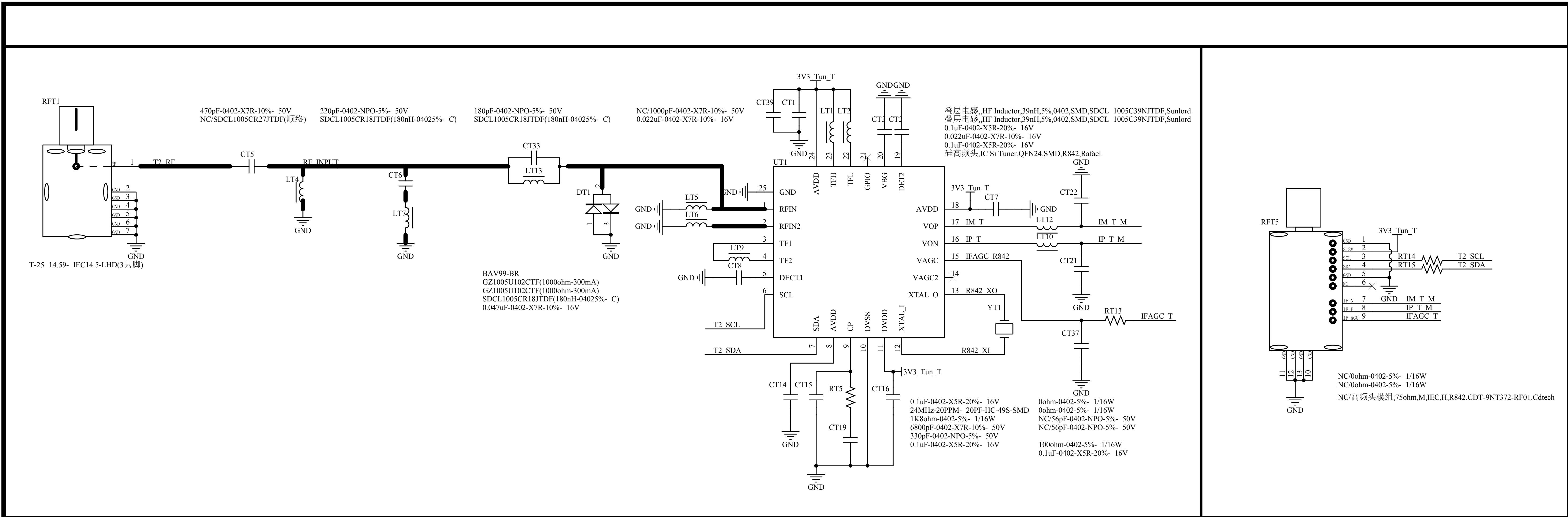


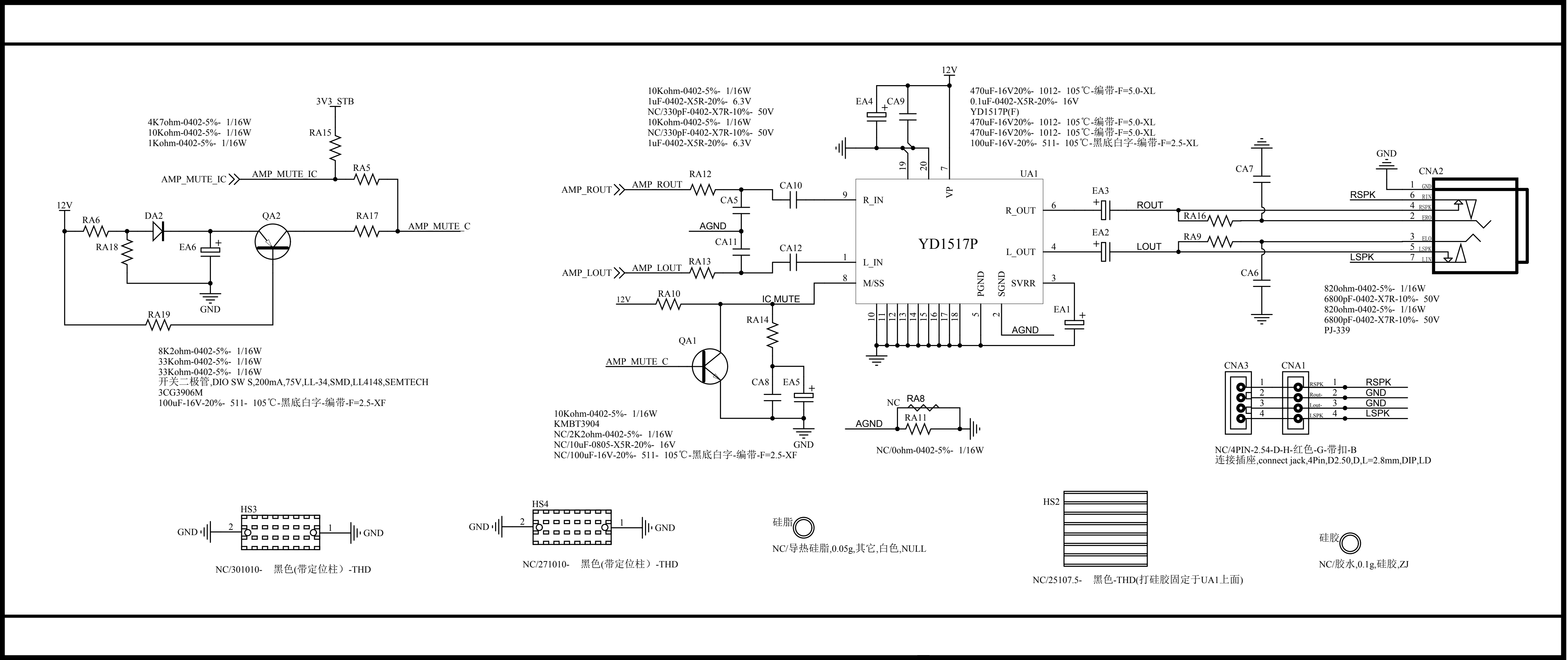
NC/RCA 端子, RCA Jack, AV3, H, Yellow、White、Red, CH6.5, D14, Seal, DIP, RCA-338M-EP-01-S, C5
NC/Dohm-0402-5%- 1/16W
NC/Dohm-0402-5%- 1/16W
NC/Dohm-0402-5%- 1/16W



NC/RCA端子,RCA Jack,AV3,H,Yellow、White、Red,CH6.5,D14,Seal,DIP,RCA-338M-EP-01-S,C5







4K7ohm-0402-5%- 1/16W
10Kohm-0402-5%- 1/16W
1Kohm-0402-5%- 1/16W

8K2ohm-0402-5%- 1/16W
33Kohm-0402-5%- 1/16W
33Kohm-0402-5%- 1/16W
开关二极管,DIO SW S,200mA,75V,LL-34,SMD,LL4148,SEMTECH
3CG3906M
100uF-16V-20%- 511- 105℃-黑底白字-编带-F=2.5-XF

10Kohm-0402-5%- 1/16W
1uF-0402-X5R-20%- 6.3V
NC/330pF-0402-X7R-10%- 50V
10Kohm-0402-5%- 1/16W
NC/330pF-0402-X7R-10%- 50V
1uF-0402-X5R-20%- 6.3V

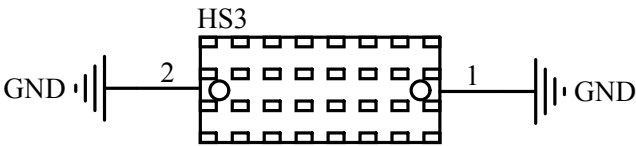
470uF-16V20%- 1012- 105℃-编带-F=5.0-XL
0.1uF-0402-X5R-20%- 16V
YD1517P(F)
470uF-16V20%- 1012- 105℃-编带-F=5.0-XL
470uF-16V20%- 1012- 105℃-编带-F=5.0-XL
100uF-16V-20%- 511- 105℃-黑底白字-编带-F=2.5-XL

10Kohm-0402-5%- 1/16W
KMBT3904
NC/2K2ohm-0402-5%- 1/16W
NC/10uF-0805-X5R-20%- 16V
NC/100uF-16V-20%- 511- 105℃-黑底白字-编带-F=2.5-XF

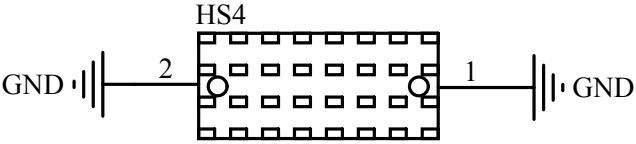
NC/0ohm-0402-5%- 1/16W

820ohm-0402-5%- 1/16W
6800pF-0402-X7R-10%- 50V
820ohm-0402-5%- 1/16W
6800pF-0402-X7R-10%- 50V
PJ-339

NC/4PIN-2.54-D-H-红色-G-带扣-B
连接插座,connect jack,4Pin,D2.50,D,L=2.8mm,DIP,LD



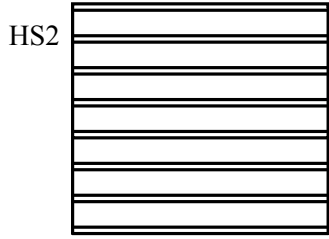
NC/301010- 黑色(带定位柱) -THD



NC/271010- 黑色(带定位柱) -THD



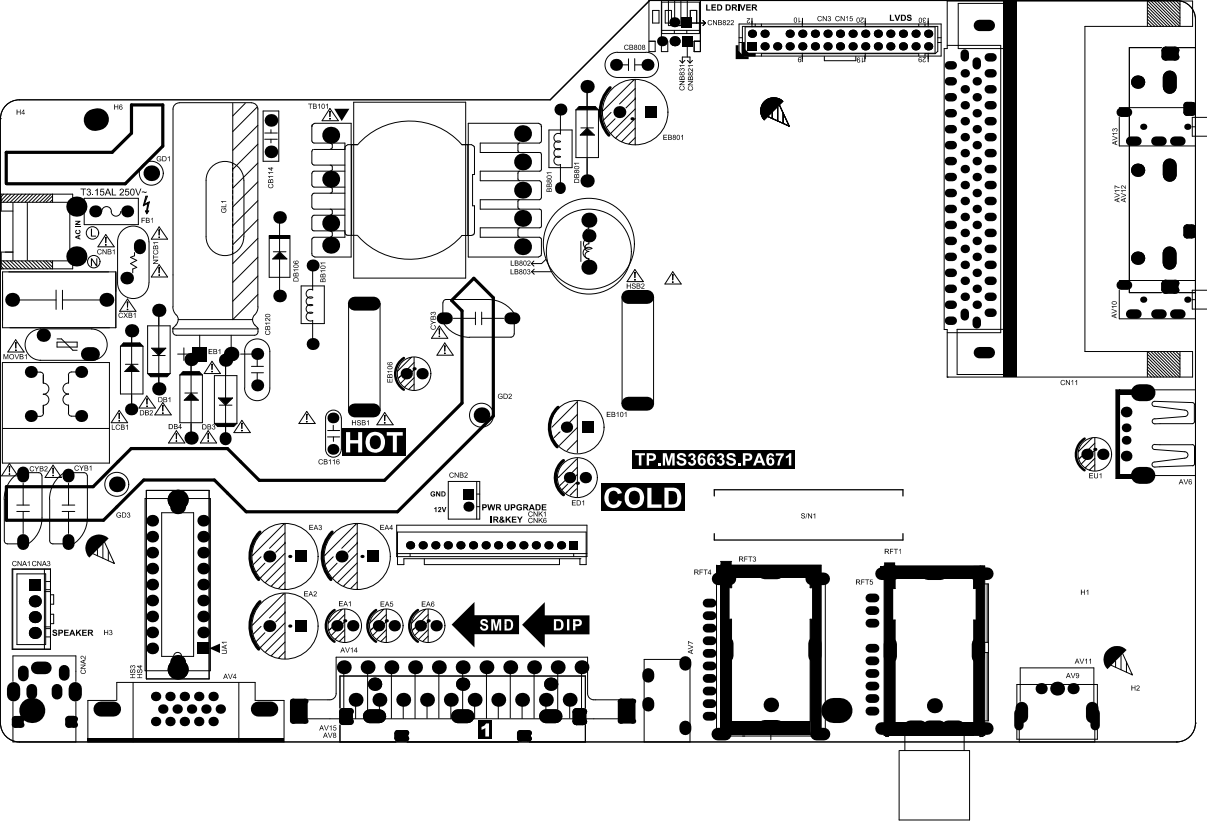
NC/导热硅脂,0.05g,其它,白色,NULL

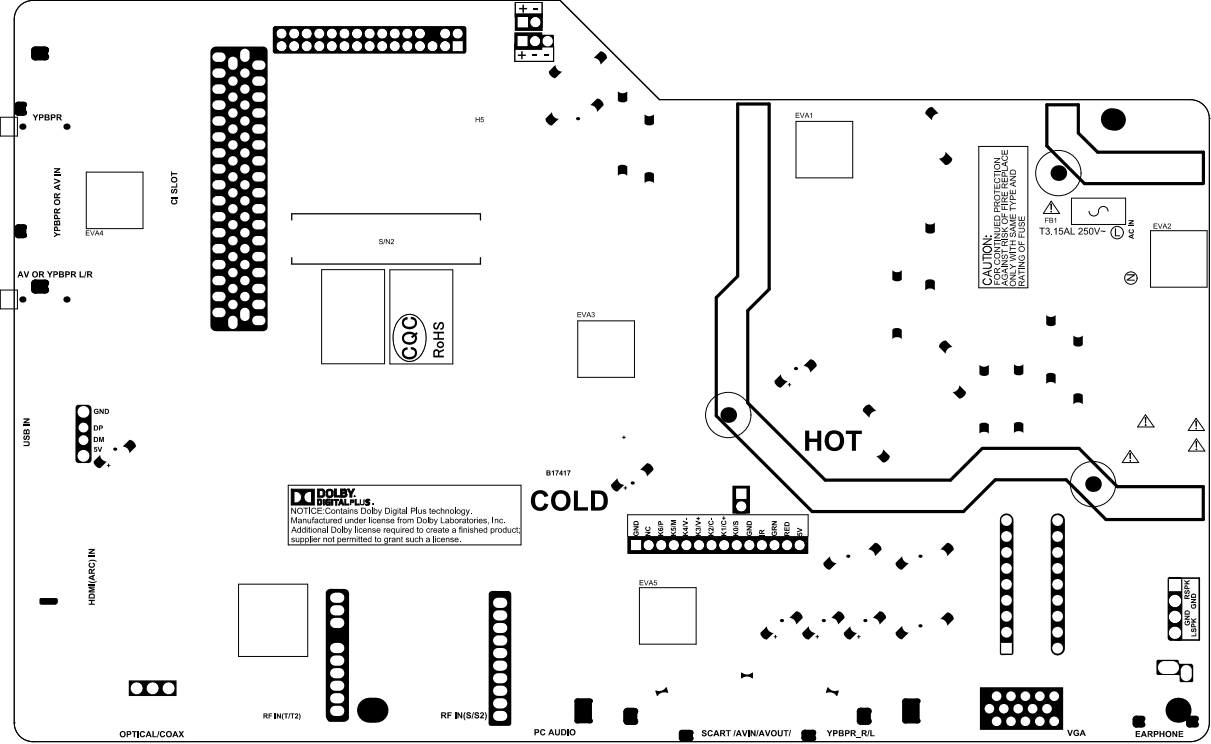


NC/25107.5- 黑色-THD(打硅胶固定于UA1上面)



NC/胶水,0.1g,硅胶,ZJ





YPBPR

YPBPR OR AV IN

AV OR YPBPR L/R

USE IN

GND
DP
DM
5V

HDMI (ARC) IN

CI SLOT

H5

SIN2

CQC
RoHS

EVA3

B17417

COLD

HOT

EVA1

CAUTION:
FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE REPLACE
FUSE WITH SAME TYPE AND
RATING OF FUSE

FB1
T3.15AL 250V~

AC IN

EVA2

GND NC K6P K3M K4V- K3V+ K4C- K1C- K0S END GRN RED 5V

EVA5

OPTICAL/COAX

RF IN (T/T2)

RF IN (S/S2)

PC AUDIO

SCART (AVIN/AVOUT/)

YPBPR_R/L

VGA

EARPHONE



+ -

$$\begin{array}{|c} + & - & - \end{array}$$

YPBPR

YPBPR OR AV IN

CI SLOT

AV OR YPBPR L/R

USB IN

HDMI(ARC) IN

OPTICAL/COAX

RF IN(T/T2)

RF IN(S/S2)

PC AUDIO

SCART /AVIN/AVOUT/

YPBPR R/L

VGA

EARPHONE

FB1

TP-TDT

GND	GND
NC	IR
K6/P	GRN
K5/M	RED
K4/V-	5V
K3/V+	
K2/C-	
K1/C+	
K0/S	

