

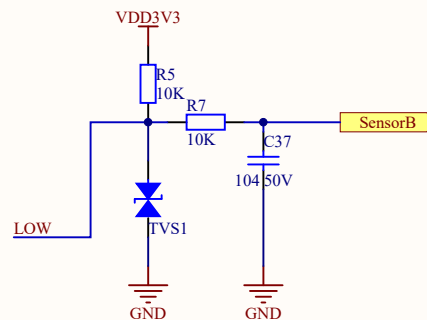
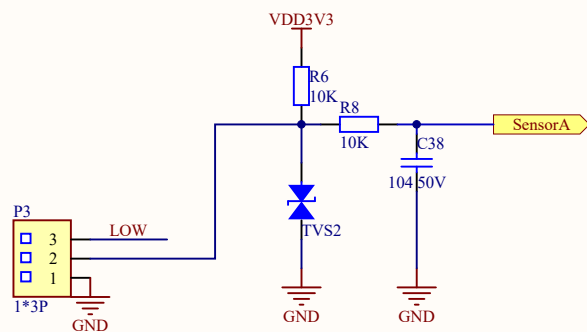
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POWER		
Size	Number	Revision
A4	02	
Date:	2021/10/11	Sheet of
File:	D:\work\...\02 Power.SchDoc	Drawn By:

1

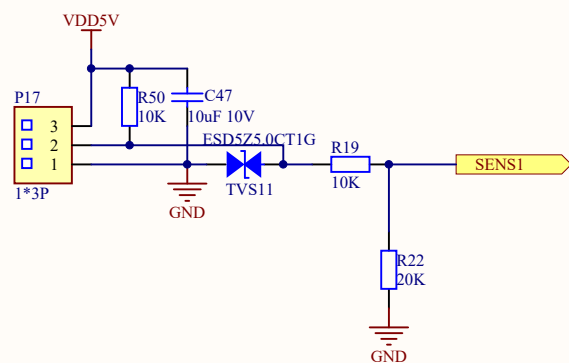
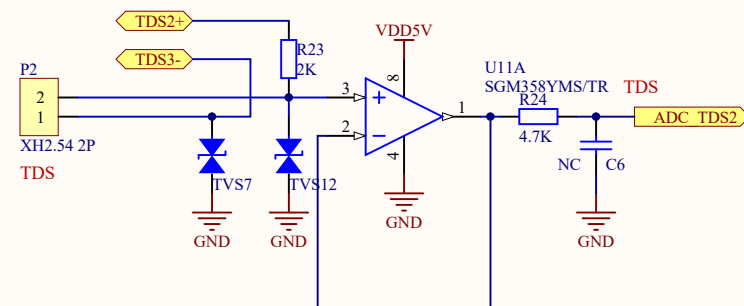
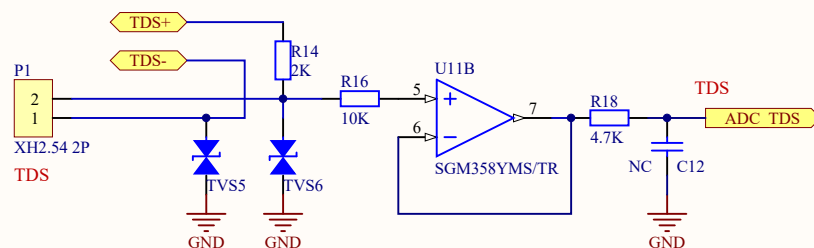
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3

4



ADC



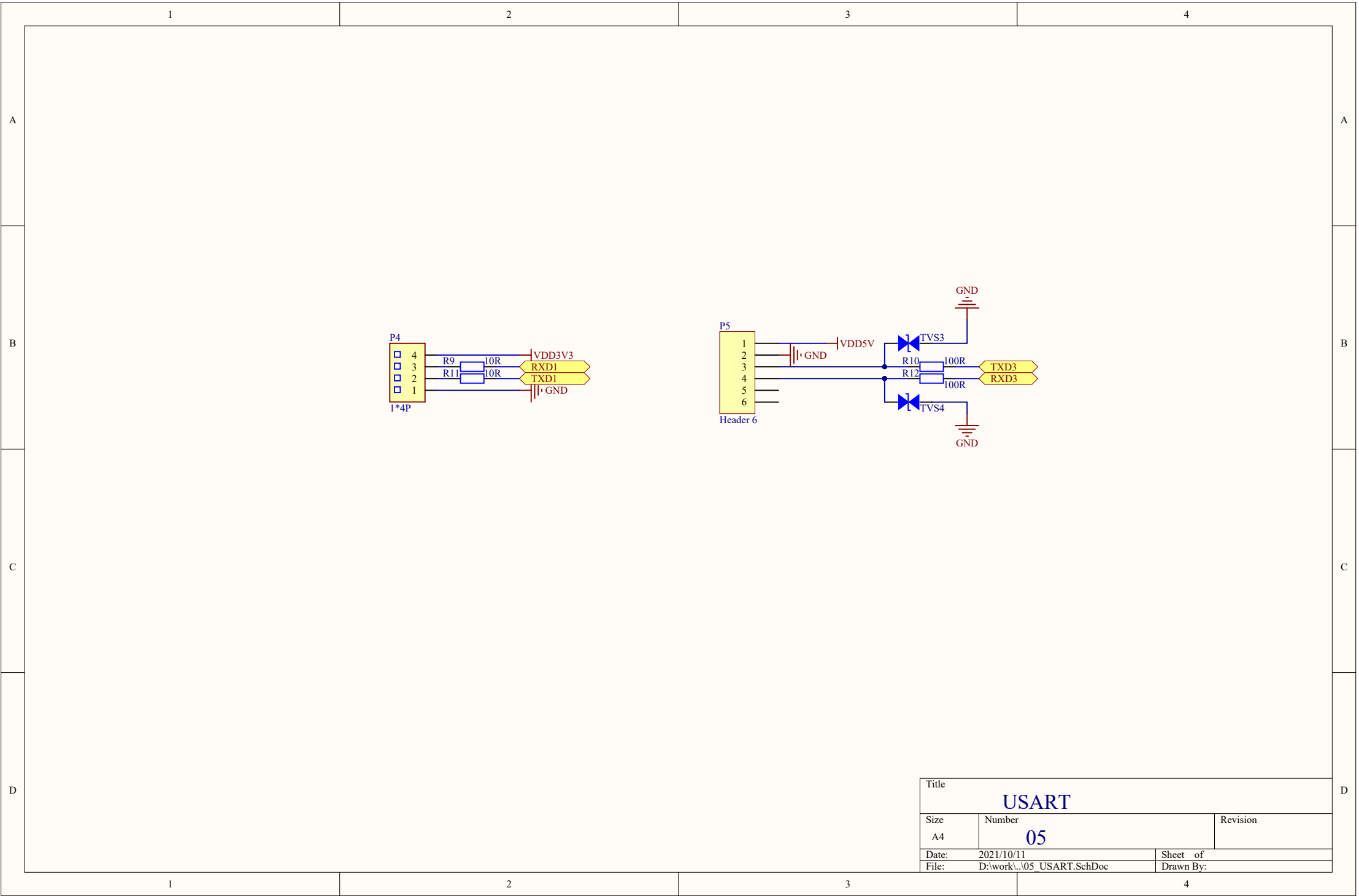
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Size	Number	Revision
A4		
Date:	2021/10/11	Sheet of
File:	D:\work\...\04 Sensor.SchDoc	Drawn By:

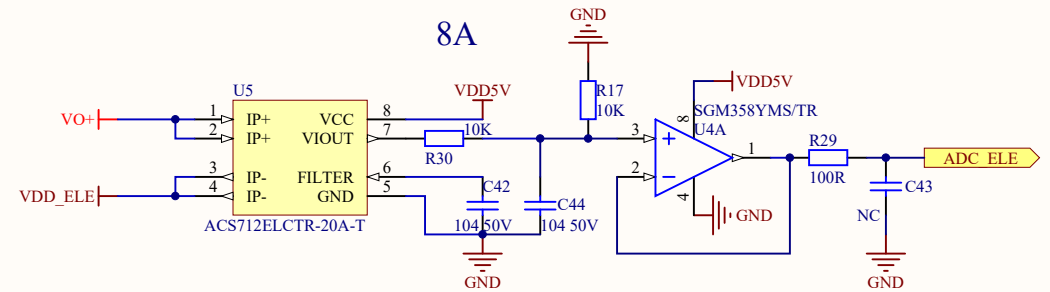
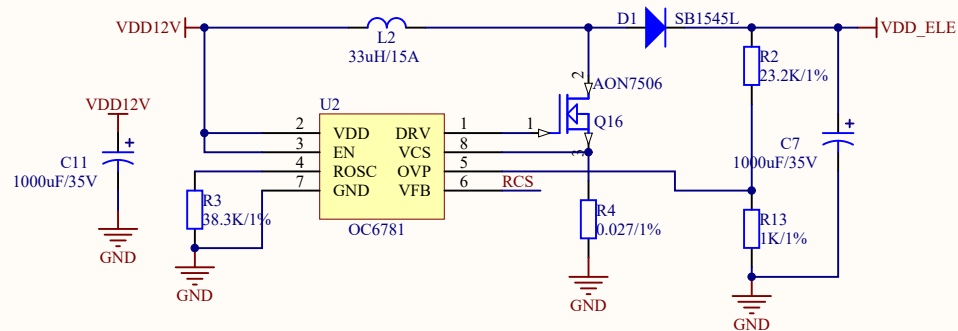
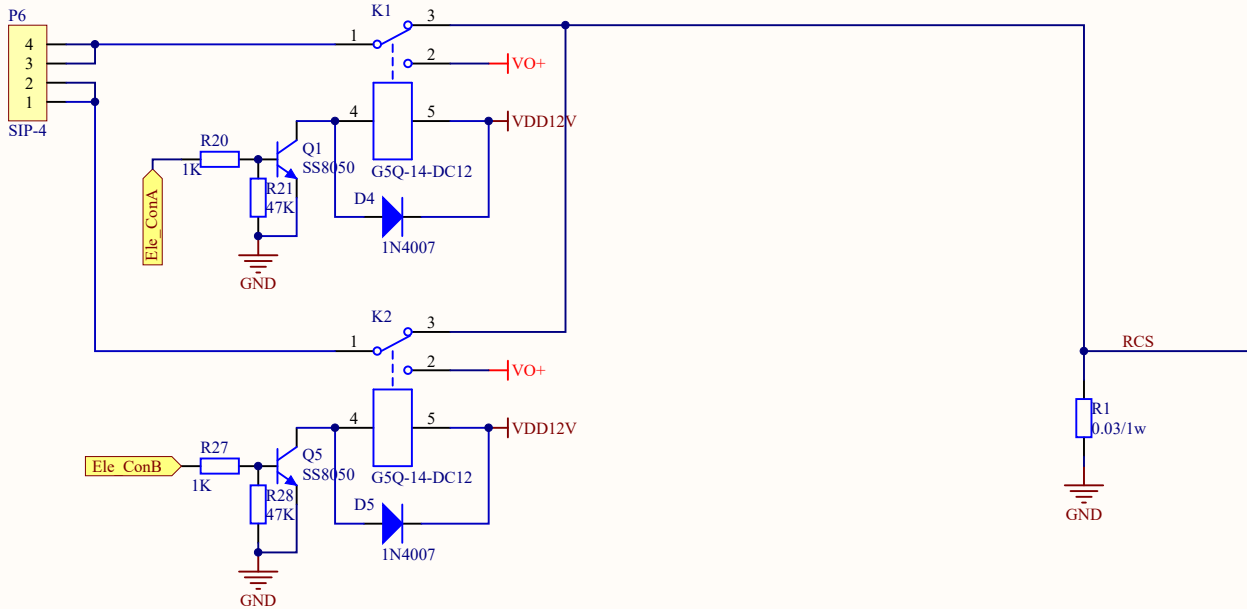
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2

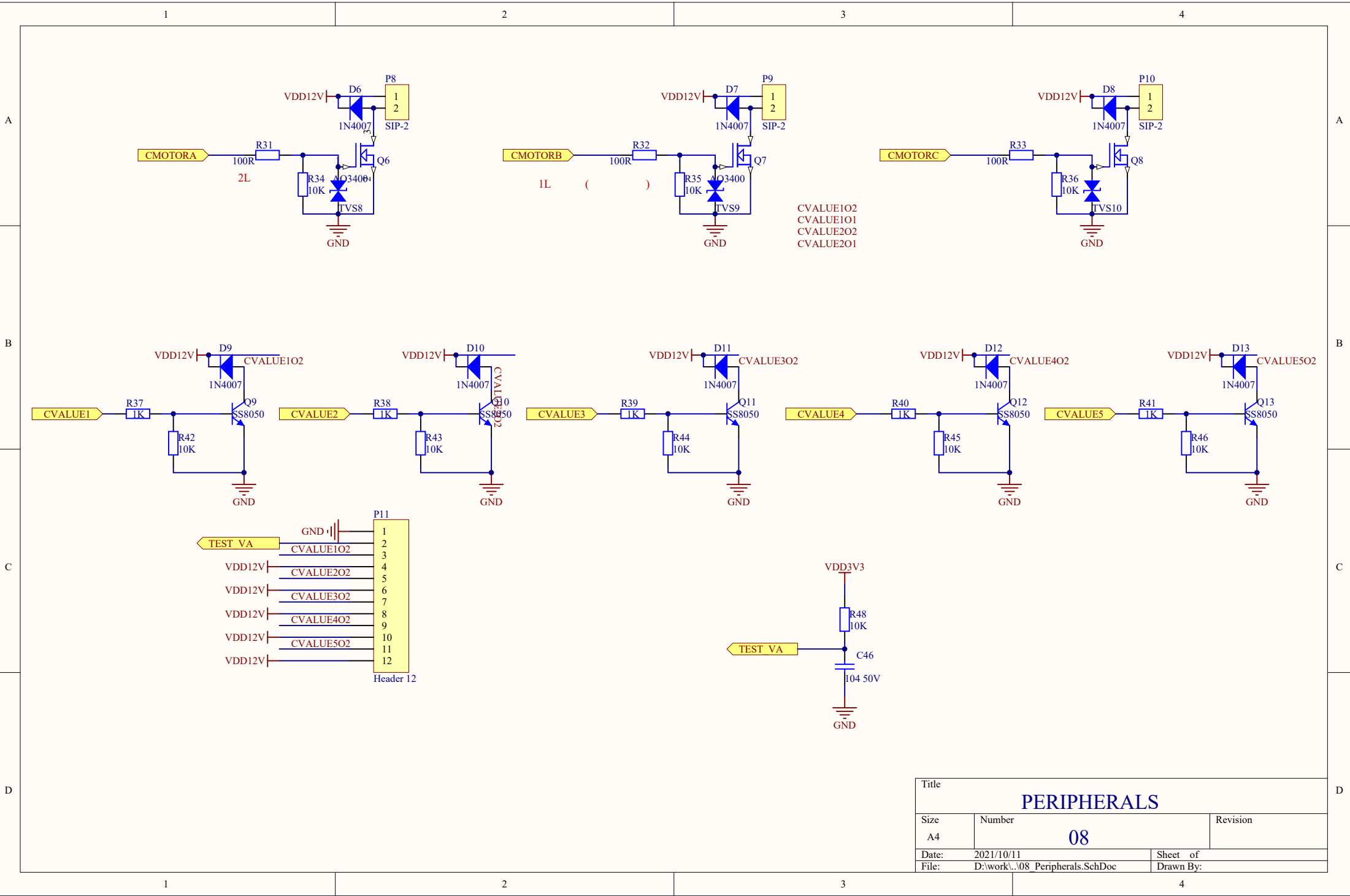
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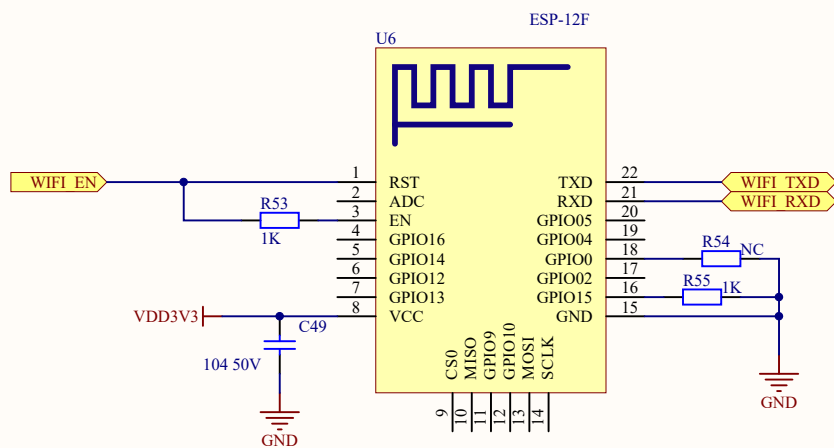
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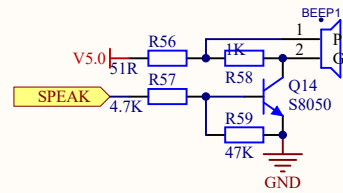


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EL_CON		
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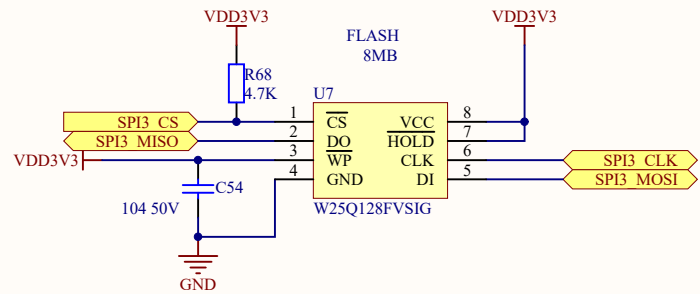




Title		
Wi-Fi		
Size	Number	Revision
A4	10	
Date:	2021/10/11	Sheet of
File:	D:\work\...\10_Wifi.SchDoc	Drawn By:



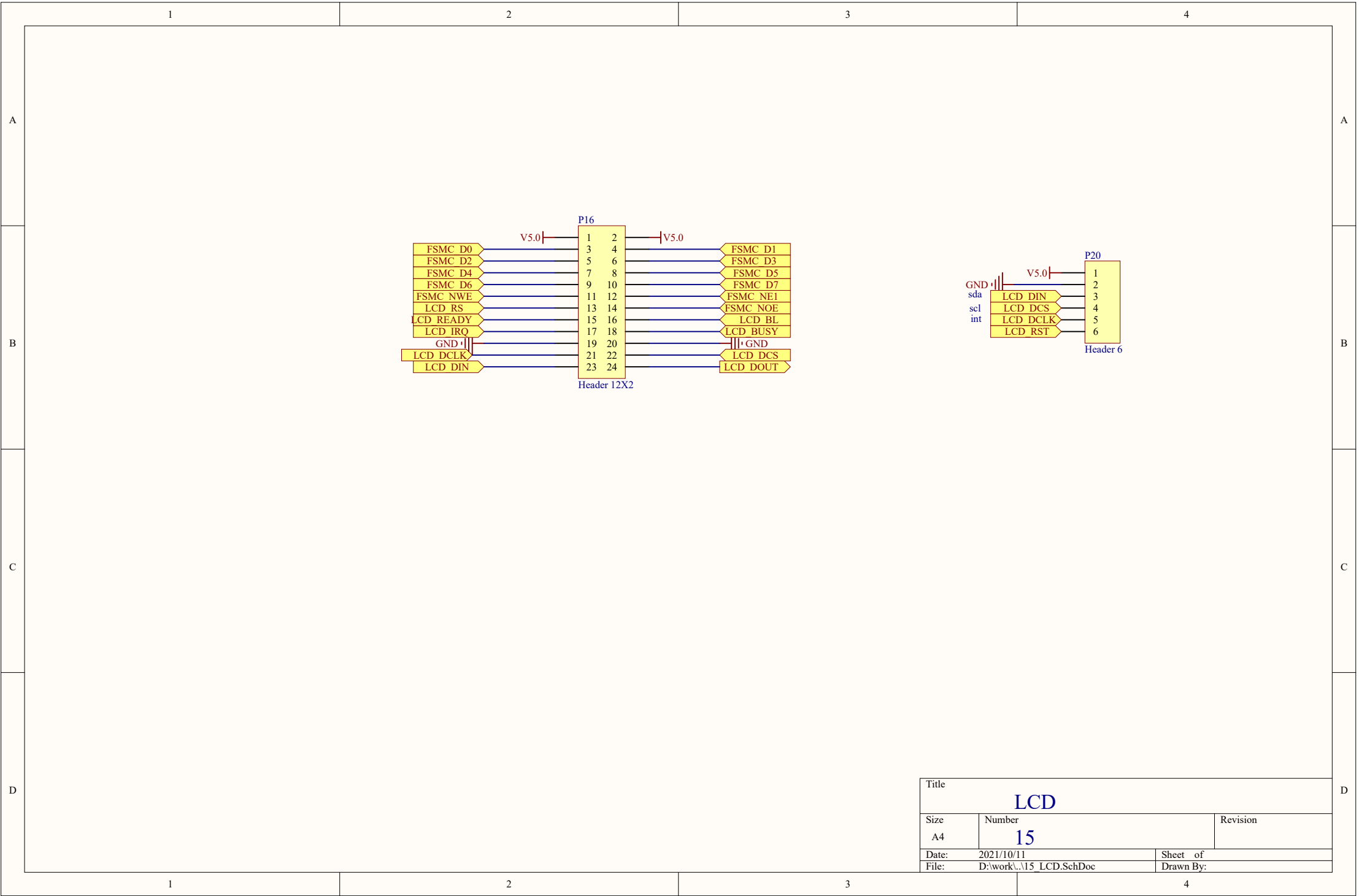
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SPEAK		
Size	Number	Revision
A4	11	
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File:	D:\work\...\11_Speak.SchDoc	Drawn By:



Title			
SPI_FLASH			
Size	Number		Revision
A4	13		
Date:	2021/10/11	Sheet	of
File:	D:\work\13 SPI Flash.SchDoc	Drawn By:	

1	2	3	4
A			A
B			B
C			C
D			D
1	2	3	4

Title			SD
Size	Number	Revision	
A4	14		
Date:	2021/10/11	Sheet	of
File:	D:\work\...\14_SD.SchDoc	Drawn By:	



A

B

C

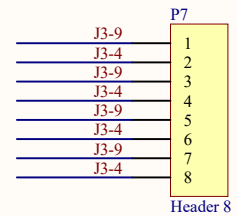
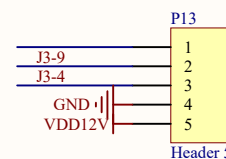
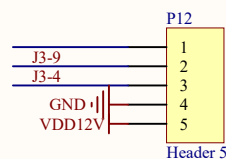
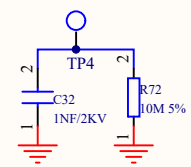
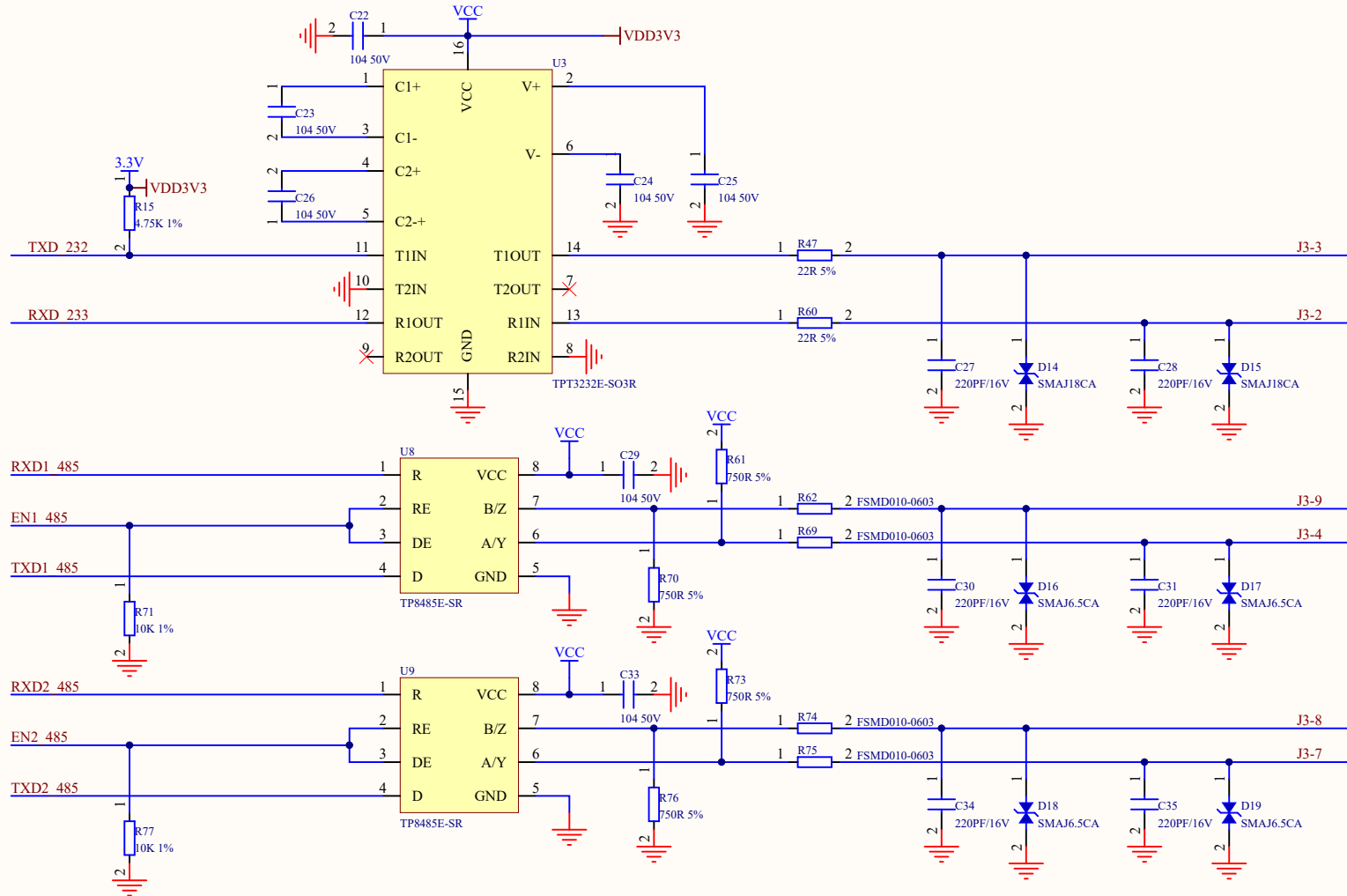
D

A

B

C

D



Title		
Size	Number	Revision
A4		
Date:	2021/10/11	Sheet of
File:	D:\work\...\com.SchDoc	Drawn By:

A

B

C

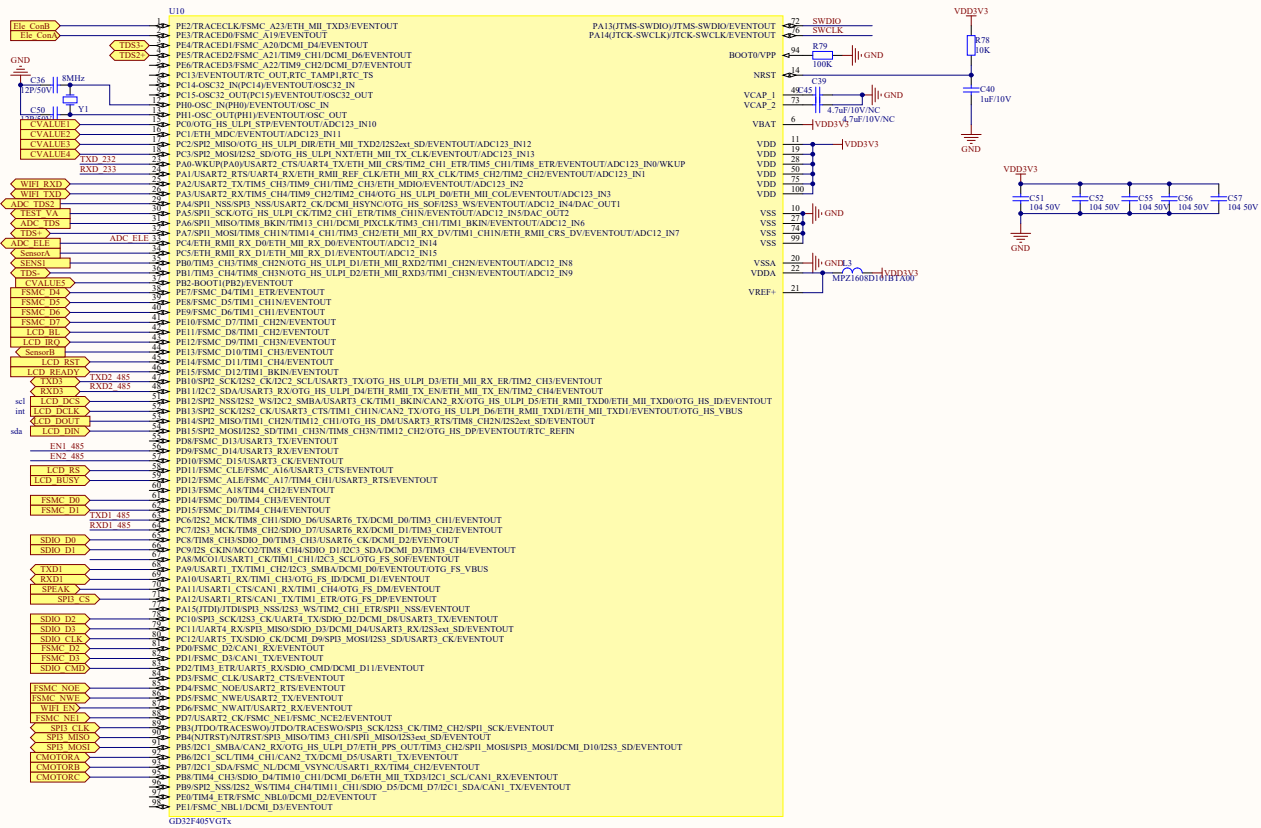
D

A

B

C

D



1

2

3

4

A

A

CPU GD32F405V
5
ph orp tds
wifi
0
sd,spi flash
8a oc6781
5
2
1
sensors:
uart 1

B

B

C

C

D

D

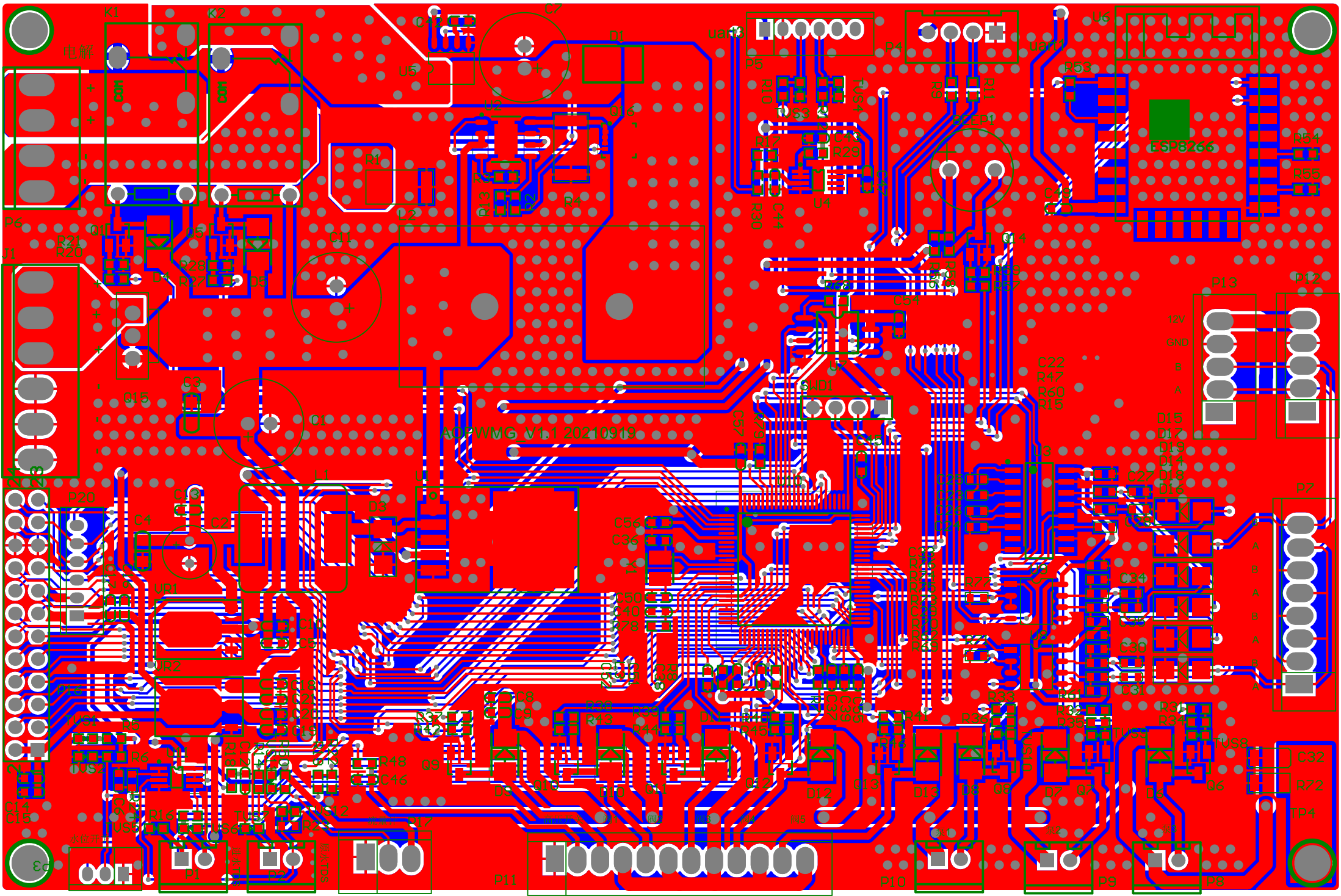
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Size	Number	Revision
A4		
Date:	2021/10/11	Sheet of
File:	D:\work\...\top.SchDoc	Drawn By:

1

2

3

4



Bill of Materials

<Parameter Title not found>

Source Data From: Controller.PrjPcb

Controller.PrjPcb

Project:

Controller.PrjPcb

/variant:

None

Creation Date: 2021/10/11 9:54:53

9:54:53

Print Date: 44480 44480.

44480.4

Footprint	Comment	LibRef	Designator	Description	Quantity
3EEP-9.5X5.5	BEEP-9.5X5.5	BEEP-9.5X5.5	BEEP1		1
10*16	1000uF/35V	CAP2	C1, C7, C11	电解电容	3
Y8	100uF/35V	CAP2	C2	电解电容	1
3MD-0603C	104 50V	CAP4	C3, C4	贴片电容 10%	2
3MD-0603C	104 25V	CAP4	C5, C18	贴片电容 10%	2
X03C3	NC	CAP4	C6	贴片电容 10%	1
3MD-0603C	104F25V	CAP4	C8, C14, C16, C20	贴片电容 10%, 贴片电容 20%	4
3MD-0603C	104 50V	C, CAP4	C9, C10, C13, C15, C17, C19, C21, C37, C38, C42, C44, C46, C48, C51, C52, C54, C55, C56, C57	贴片电容 10%, 贴片电容 20%	19
3MD-0603C	NC	CAP4	C12, C43	贴片电容 10%	2
X03C3	104 50V	CAP	C22, C23, C24, C25, C26, C29, C33		7
1206C	220P/16V	CAP	C27, C28, C30, C31, C34, C35		6
3MD-0603C	12P/50V	CAP4	C36, C50	贴片电容 5%	1
3MD-0603C	4.7uF/10V/NC	CAP4	C38, C45	贴片电容 20%	2
3MD-0603C	1uF/10V	CAP4	C40	贴片电容 20%	1
3MD-0603C	104uF 10V	0805 22uF (226)	C47	贴片电容 10%	1
	20% 25V				
R0227	SB154SL	DIODE2	D1	肖特基二极管	1
3MA	SS54	DIODE2	D2		1
20-114-AC	1N4007	DIODE2	D4, D5, D6, D7, D8, D9, D10, D11, D12, D13	贴片二极管	10
3MA	SMAJ18CA	D_ESD	D14, D15		2
3MA	SMAJ6.5CA	D_ESD	D16, D17, D18, D19		4
H4-W-3.96*6P	HEADER_6		H1		1
35Q-14	G5Q-14-DC12	JD01	K1, K2	3V 继电器	2
JRNH-12/1	33uH	IND	L1		1
INDUCTOR_3	33uH/15A	Inductor1	L2	10uH 1A	1
I*18					
3MD-0603	MPZ1608D101B	CIZHU1	L3	磁珠电感 100R 100MHz	1
3IP-2A	XH2.54 2P	SIP-2	P1, P2		2
3X2MMZ	1*3P	HDR1*3	P3	42.54 2P 直插	1
42.54-4A	1*4P	HDR1*4	P4		1
3X2MMZ	Header 6	Header 6	P5, P20	header, 6-Pin	2
H4-W-3.96*4P	SIP-4	SIP-4	P6	3.96 4P 直插	1
3X2.54MMZ	Header 8	Header 8	P7	header, 8-Pin	1
3IP-2A	SIP-2	SIP-2	P8, P9, P10	42.54 2P 立插	3
12X2.54MMZ	Header 12	Header 12	P11	header, 12-Pin	1
3X2.54MMZ	Header 5	Header 5	P12, P13	header, 5-Pin	2
4DRX212	Header 12X2	Header 12X2	P16	header, 12-Pin, Dual row	1
3X2.54MMZ	1*3P	HDR1*3	P17		1
SOT-23	SS8050	NPN1	Q1, Q5, Q9, Q10, Q11, Q12, Q13	三极管	7
SOT-23	OC30400	MOSFET N	Q6, Q7, Q8	3 MOSFET N	3
SU1-23	SS8050	NPN1	Q14	3 MOSFET N	1
0220	AOTF4185	MOSFET N	Q15	3 MOSFET N	1
7PN3-3-8	ACNT506	MOSFET N	Q16	3 MOSFET N	1
2512R	0.03/uW	R	R1	贴片电阻 5%	1
3MD-0603	23.2K/1% R	R	R2	贴片电阻 5%	1
3MD-0603	38.3K/1% R	R	R3	贴片电阻 5%	1
2512	0.027/1% R	R	R4	贴片电阻 5%	1
3MD-0603	10K	0603 10KQ	RES, R6, R7, R8, R16, R17, R19, R30, R34, R35, R36, R42, R43, R44, R45, R46, R48, R50, R78	贴片电阻 1%, 贴片电阻 5%	19
	(1002) 1%				
	RES0, RES2, RES-SOP				
3MD-0603	10R	RES2	R9, R11	贴片电阻 5%	2
3MD-0603	100R	RES0, RES2, RES-SOP	R10, R12, R20, R31, R32, R33	贴片电阻 5%	6
3MD-0603	1K/1% R	R	R13	贴片电阻 5%	1
3MD-0603	2K	R	R14	贴片电阻 1%	1
X03R	4.7K 1%	RES	R15		1
3MD-0603	4.7K	RES0, RES2	R18, R57, R68	贴片电阻 5%	3
3MD-0603	1K	RES0, RES2, RES-SOP	R20, R27, R37, R38, R39, R40, R41, R53, R55, R58	贴片电阻 5%	10
3MD-0603	47K	RES0, RES2	R21, R28, R59	贴片电阻 5%	3
3MD-0603	20K	0603 10KQ	R22	贴片电阻 5%	1
	(1002) 1%				
X03R	2K	RES0	R23	贴片电阻 1%	1
X03R	4.7K	RES0	R24	贴片电阻 1%	1
X03R	22R 5%	RES	R47, R60		2
3MD-0603	NC	RES2	R54		1
3MD-0603	51R	RES0	R56	贴片电阻 5%	1
X03R	750R 5%	RES	R61, R70, R73, R76	贴片电阻 5%	1
X03R	FSMD010-0603	RES	R62, R69, R74, R75		4
X03R	10K 1%	RES	R71, R77		2
1206	10M 5%	RES	R72		1
3MD-0603	100K	RES2	R79		1
3IP-4	SIP-4 (NC)	SIP-4	SWD1	贴片电阻 5%	1
pd	TPS	TPS	TP4	3P 下板	1
SOD-523	ESD525 OCT1G	SIP-4	TVS1, TVS2, TVS3, TVS4, TVS5, TVS6, TVS7, TVS8, TVS9, TVS10, TVS11, TVS12	TPS, TVS 5.0V	12
IO-263.5	LM2596S 5.0V	LM2596	U1		1
SOP127PFB00	OC6781	OC6781	U2		1
G265, HS-9N					
SO-16Z	TPT3232E-SO3R	TPT3232E-SO3R	U3		1
4SOP-8	SGM358YMS/T	LM358	U4, U11	运放, 运算放大器	2
SO-8	ACS712ELCTR-20A-1	ACS712	U5	HALL 20A 电流传感器	1
ESP-12F	ESP-12F	ESP8266	U6		1
SO-8W	W250128FVSG	W250128FV	U7		1
SO-8	TP8485E-SR	TP8485E-SR	U8, U9		2
3TM-	GD32F405VGTx	STM32F405VGTx	U10		1
_0FF100_N					
SOT223	LM1117 3.3V	LM1117	VR1	三端稳压器	1
SOT223	LM1117 5.0V	LM1117	VR2	三端稳压器 (耐压20V)	1
XTAL-3225-2	8MHz	XTAL	Y1	3225 贴片晶振	1

Approved

Notes

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