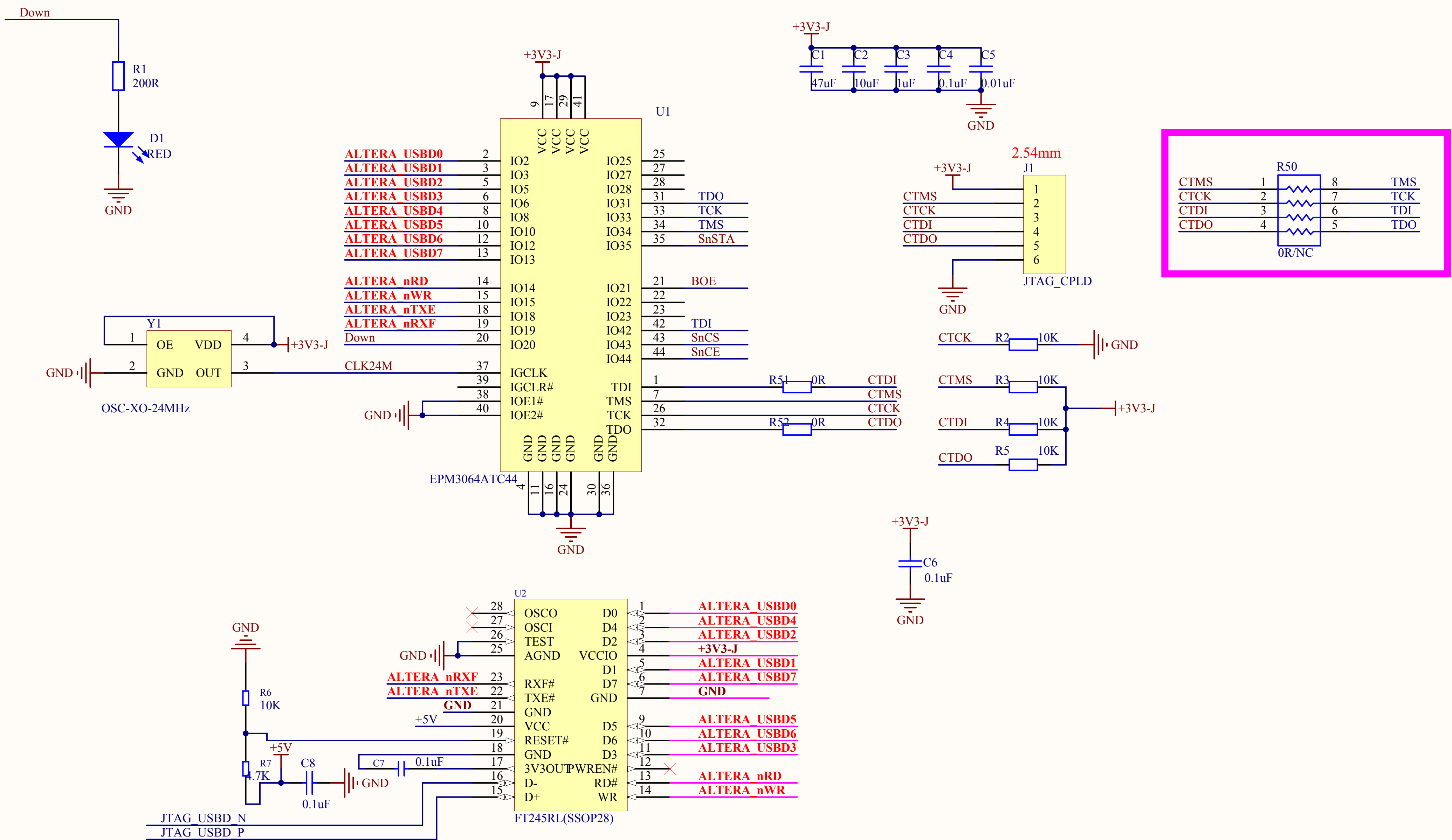


ALTERA USB BLASTER

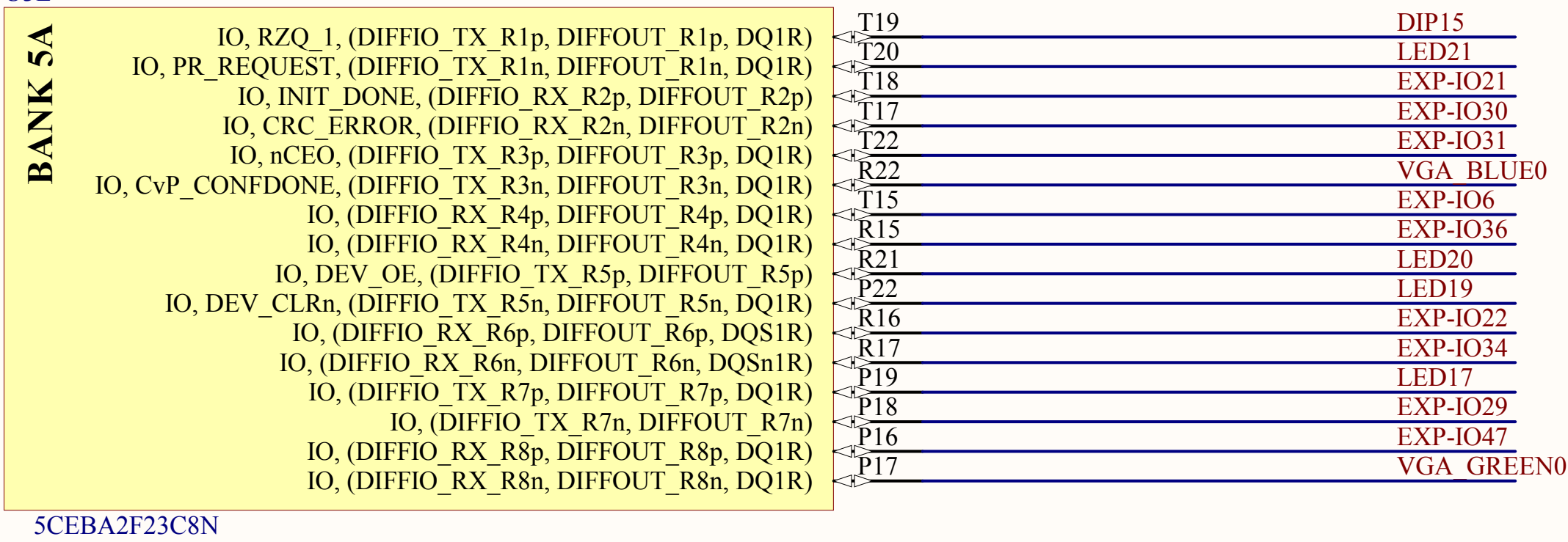


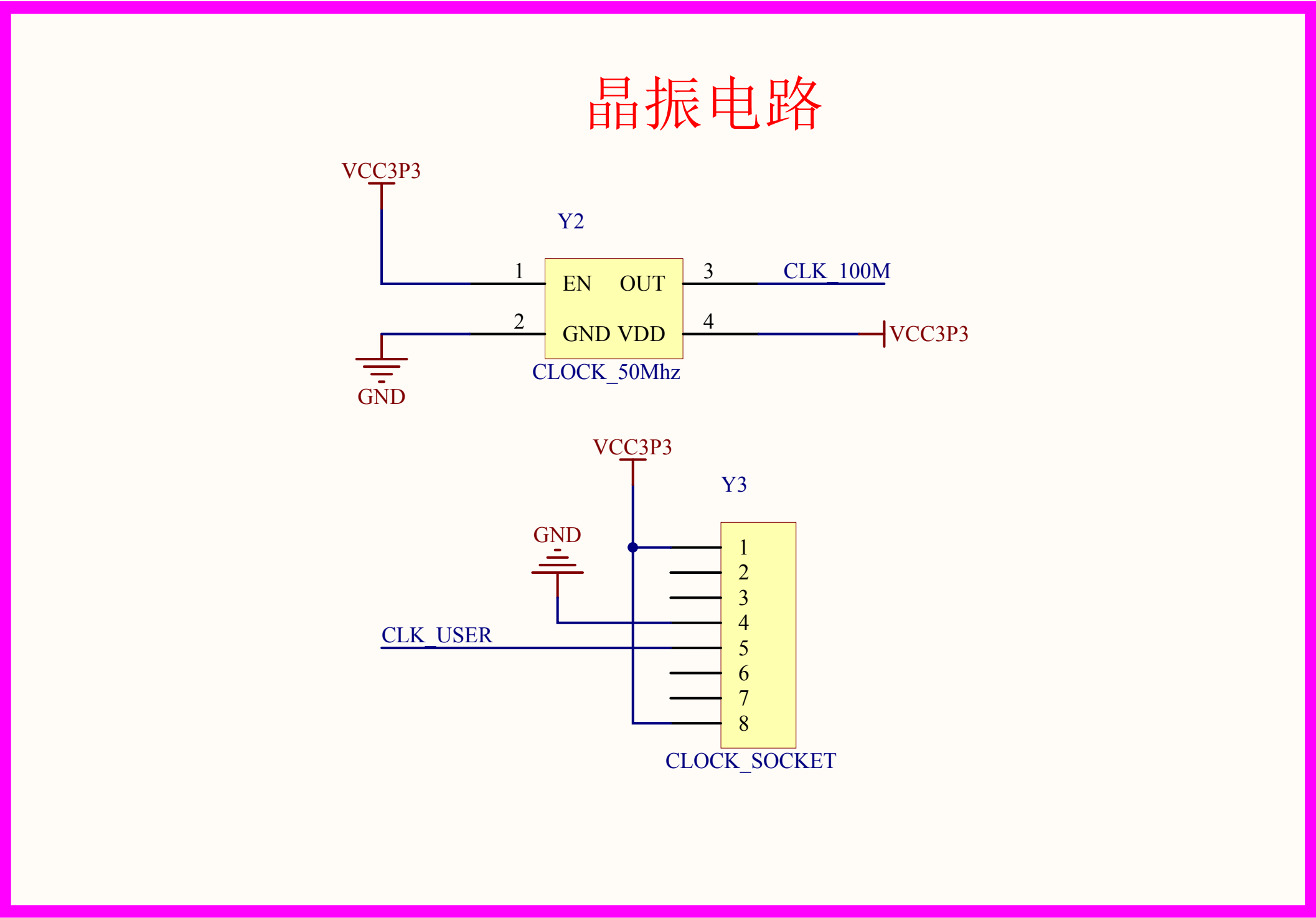
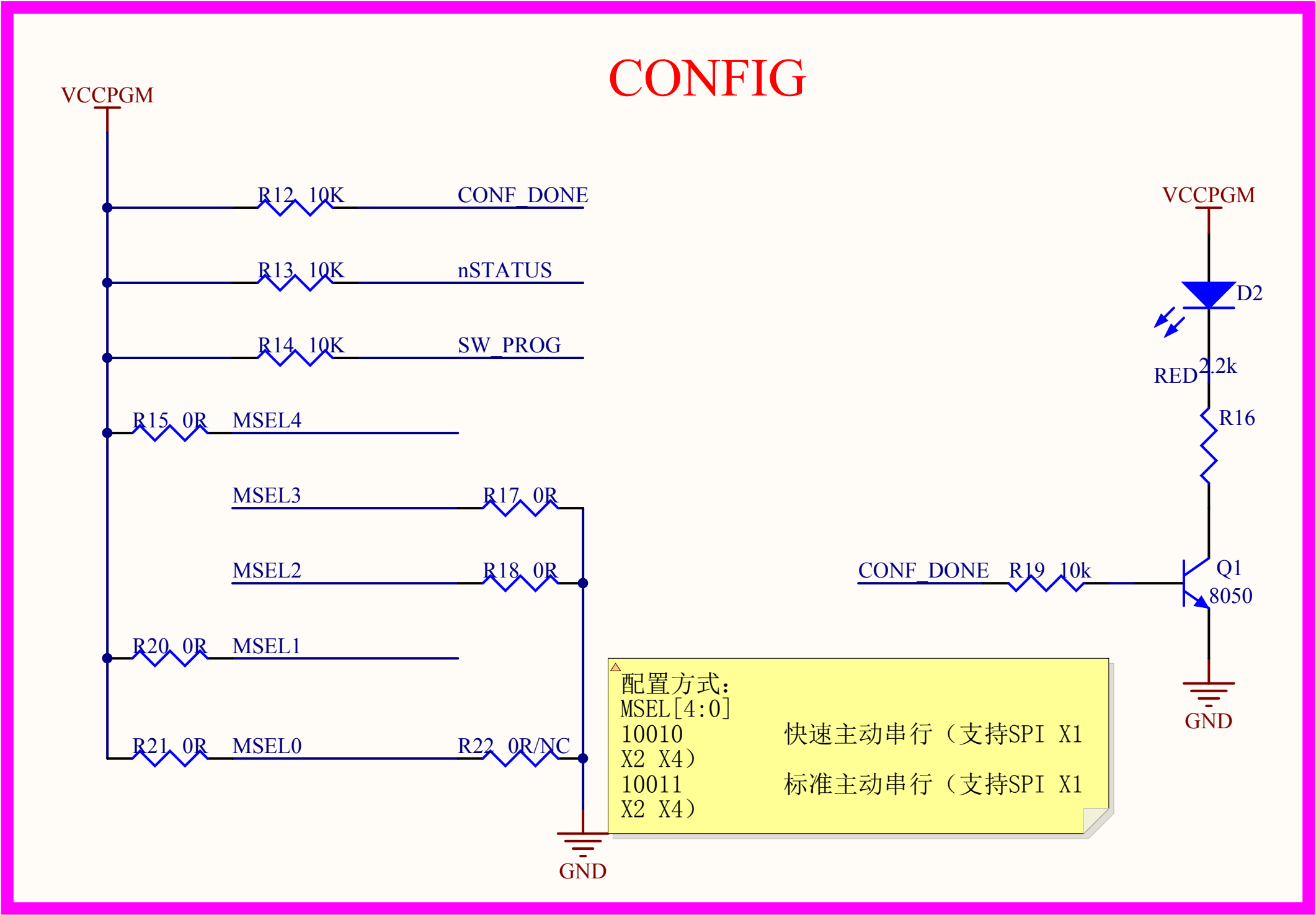
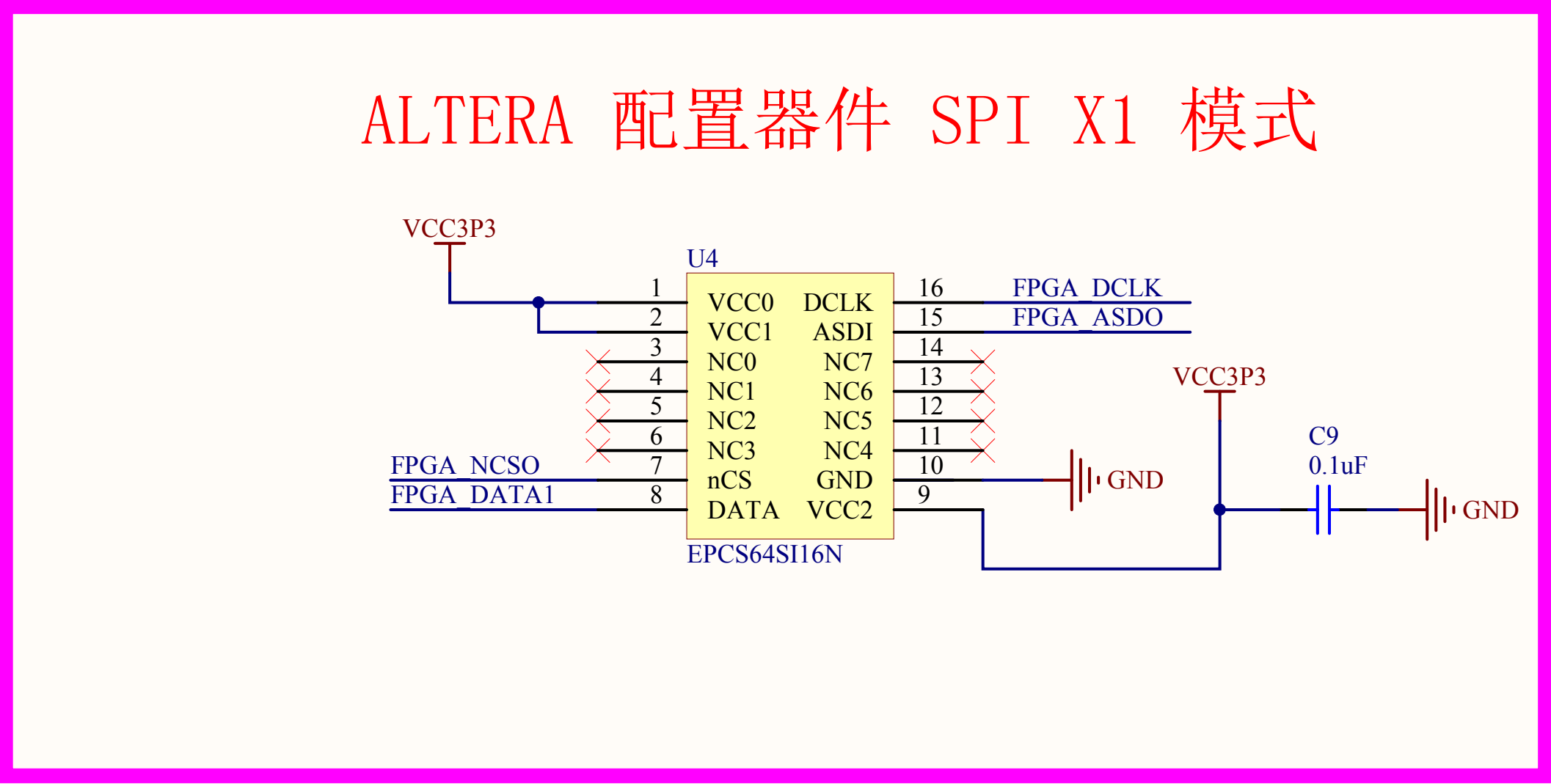
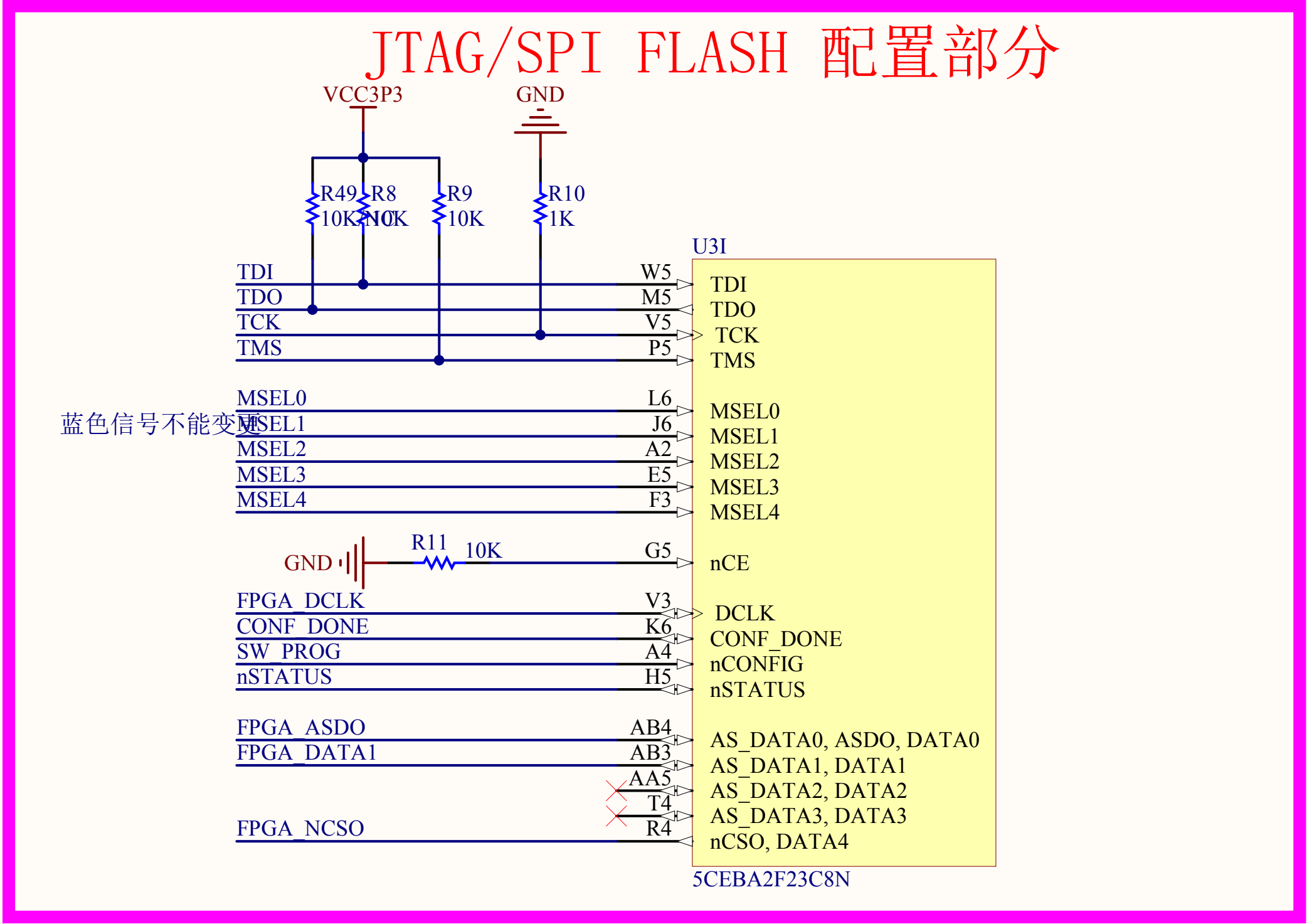
Title		
Size	Number	Revision
A3		
Date:	2017/1/11	Sheet of
File:	F:\allboards\ALTERA-USBJTAG.SchDp	Drawn By:

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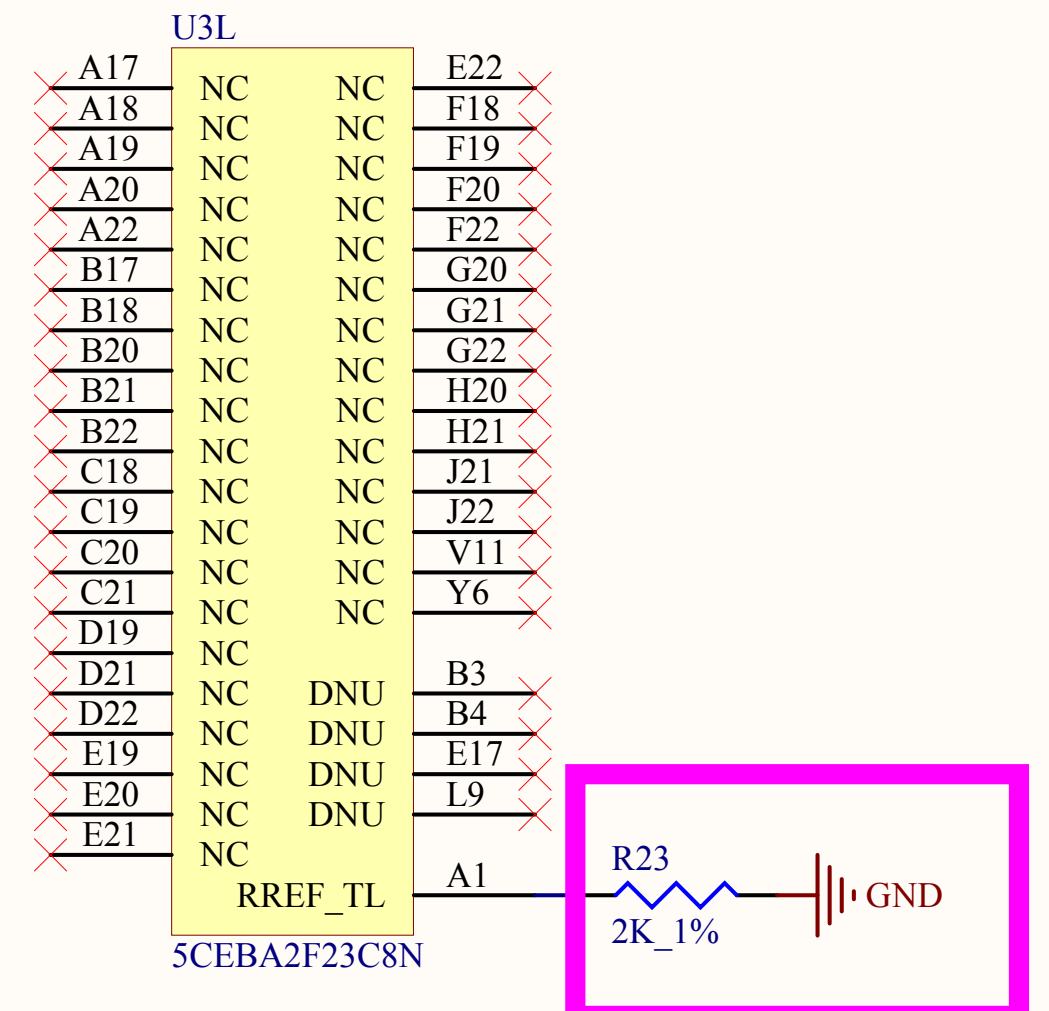
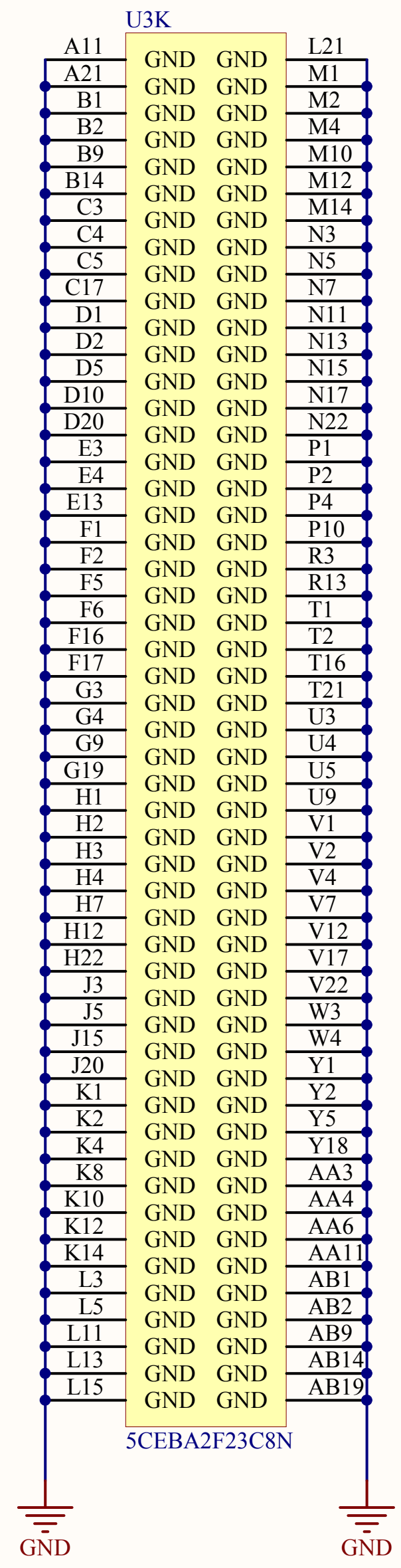
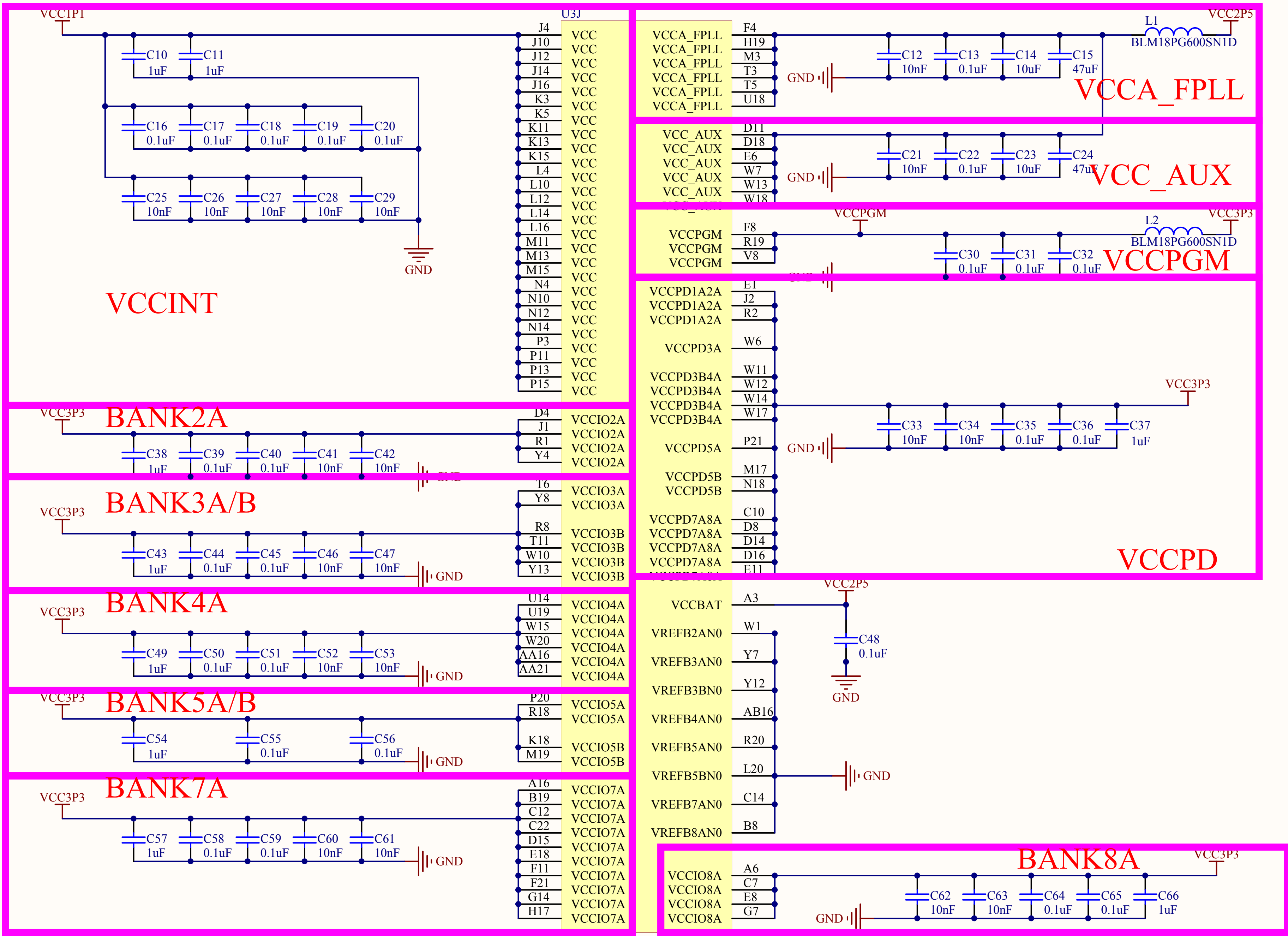




Title		
Size	Number	Revision
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Date:	2017/1/11	Sheet of
File:	F:\allboards\...\ALTERA_CV_config.SchDoc	Drawn By:

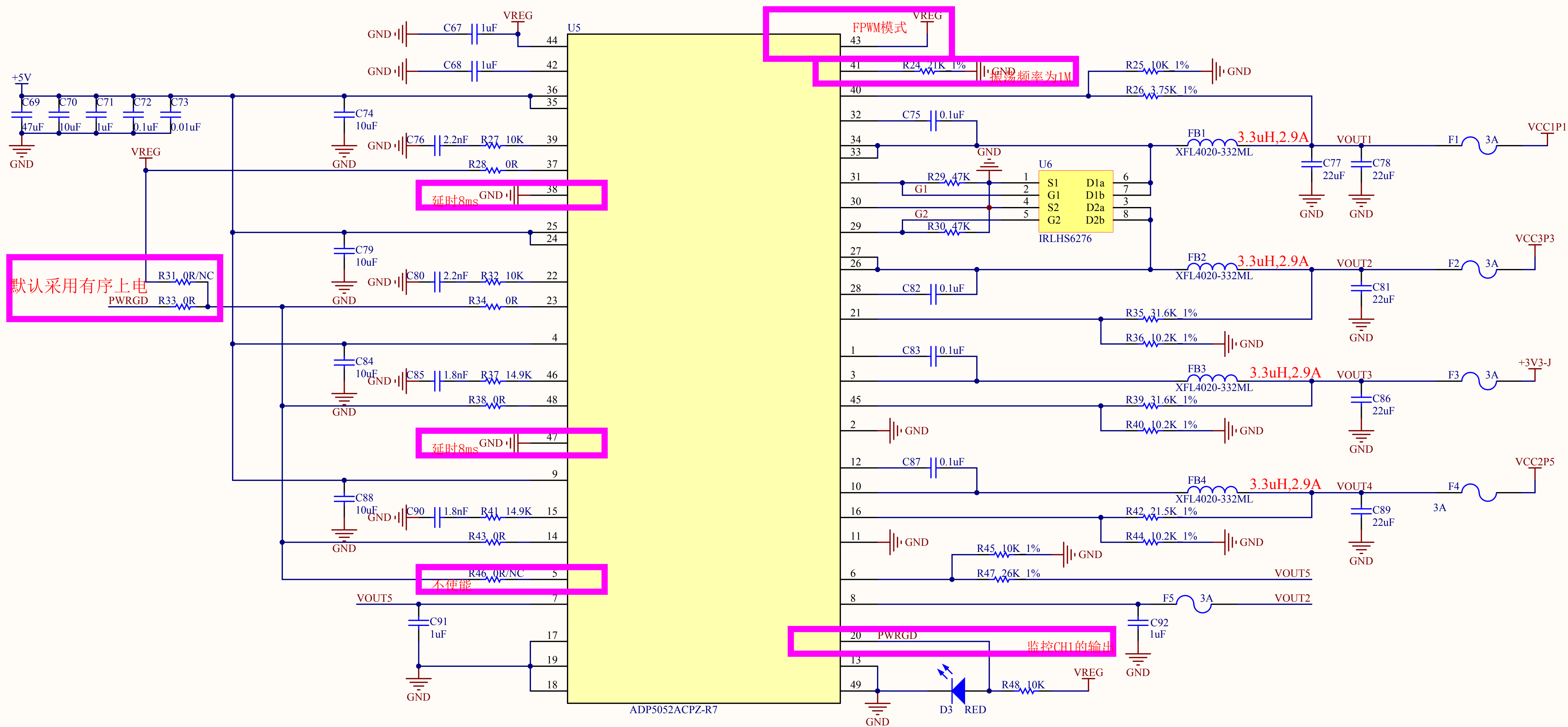
此页0402封装的电容推荐使用圆焊盘封装，以能将其安置在FPGA相应引脚旁

- 1、各部分供电引脚电容，按照高、中、低频布局规则放置；
2、FPGA中每个BANK供电电压均为3.3V；
3、VCCPD、VCCPGM供电电压应与相对应BANK一致，也为3.3V，其中VCCPGM供电采用磁珠隔离；
4、VCCA_FPLL、VCC_AUX为2.5V供电，采用磁珠隔离；
5、每个BANK VREFB引脚接地处理，A1（RREF_TL）引脚采用精度为1%的2K电阻接地处理；



Title		
Size	Number	Revision
A3		
Date:	2017/1/11	Sheet of
File:	F:\allboards\...ALTERA_CV_POWER.Sch	Drawn By:

- 1、此芯片PCB布局参考ADP5052数据手册部分的“电路板布局建议”小节；
2、IRLHS6276、XFL4020-332ML器件PCB封装需要制作；



Title		
Size	Number	Revision
A3		
Date:	2017/1/11	Sheet of
File:	F:\allboards\...\COREBOARD_POWER.SchDoc	Drawn By:

底板排针

此排针封装需制作

J2A			
GND	A1	B1	GND
+5V	A2	B2	+5V
EXP-IO37	A3	B3	RTC SCLK
EXP-IO38	A4	B4	RTC IO
EXP-IO39	A5	B5	RTC RST
EXP-IO40	A6	B6	UART1 TX +3V3
EXP-IO41	A7	B7	UART2 TX +3V3
EXP-IO42	A8	B7	UART1 RX +3V3
EXP-IO43	A9	B8	UART2 RX +3V3
EXP-IO44	A10	B9	
EXP-IO45	A11	B10	485 RXD
EXP-IO46	A12	B11	485 R/D
EXP-IO47	A13	B12	485 TXD
EXP-IO48	A14	B13	CS SPI 1
EXP-IO49	A15	B14	CS SPI 0
EXP-IO49	A15	B15	SCLK SPI
EXP-IO10	A16	B16	MISO SPI
EXP-IO11	A17	B17	MOSI SPI
EXP-IO12	A18	B18	BUZZ
EXP-IO16	A19	B18	SCL I2C
EXP-IO15	A20	B20	SDA I2C
EXP-IO14	A21	B21	EXP-IO1
EXP-IO13	A22	B22	EXP-IO2
EXP-IO17	A23	B23	EXP-IO3
EXP-IO18	A24	B24	EXP-IO4
EXP-IO19	A25	B25	EXP-IO8
EXP-IO20	A26	B26	EXP-IO7
EXP-IO24	A27	B27	EXP-IO6
EXP-IO23	A28	B28	EXP-IO5
EXP-IO22	A29	B29	EXP-IO9
EXP-IO21	A30	B30	SW C0
EXP-IO25	A31	B31	SW C1
EXP-IO26	A32	B32	SW C2
EXP-IO27	A33	B33	SW C3
EXP-IO28	A34	B34	SW R0
EXP-IO32	A35	B34	SW R1
EXP-IO31	A36	B35	SW R2
EXP-IO30	A37	B36	SW R3
EXP-IO29	A38	B37	EXP-IO35
+5V	A39	B38	
GND	A40	B39	+5V
		B40	GND

PinHeader_40x6

J2B			
GND	C1	D1	GND
+5V	C2	D2	+5V
SW RST	C3	D3	LCD RST
SW PROG	C4	D4	LCD PSB
PS2 DATA K	C5	D5	DB7
PS2 CLK K	C6	D6	DB6
Tem IN	C7	D7	DB5
INF IN	C8	D8	DB4
BITCLK	C9	D9	DB3
SDATA O	C10	D10	DB2
SDATA I	C11	D11	DB1
SYNC	C12	D12	DB0
AC RST#	C13	D13	LCD EN
USB TXD	C14	D14	LCD RW
USB RXD	C15	D15	LCD RS
SW0	C16	D16	ADC CS
SW1	C17	D17	ADC SCLK
SW2	C18	D18	ADC DOUT
SW3	C19	D19	ADC DIN
DIP0	C20	D20	DAC SCLK
DIP1	C21	D21	DAC CS
DIP2	C22	D22	DAC DI
DIP3	C23	D23	EXP-IO51
DIP4	C24	D24	LED22
DIP5	C25	D25	LED23
DIP6	C26	D26	LED24
DIP7	C27	D27	LED25
DIP8	C28	D28	LED26
DIP9	C29	D29	LED27
DIP10	C30	D30	LED28
DIP11	C31	D31	LED29
DIP12	C32	D32	LED30
DIP13	C33	D33	LED31
DIP14	C34	D34	VGA HSYNC
DIP15	C35	D35	VGA VSYNC
EXP-IO33	C36	D36	VGA RED0
EXP-IO34	C37	D37	JTAG USBD P
EXP-IO36	C38	D38	JTAG USBD N
+5V	C39	D39	+5V
GND	C40	D40	GND

PinHeader_40x6

J2C			
GND	E1	F1	GND
+5V	E2	F2	+5V
H5	E3	F3	L8
H7	E4	F4	L7
L2	E5	F5	H2
L3	E6	F6	L1
H8	E7	F7	H4
L5	E8	F8	L6
H6	E9	F9	L4
H3	E10	F10	H1
H5 1	E11	F11	L8 1
H7 1	E12	F12	L7 1
L2 1	E13	F13	H2 1
L3 1	E14	F14	L1 1
H8 1	E15	F15	H4 1
L5 1	E16	F16	L6 1
H6 1	E17	F17	L4 1
H3 1	E18	F18	H1 1
LED S0	E19	F18	LED0
LED S3	E20	F19	LED1
LED S2	E21	F20	LED2
LED S1	E22	F21	LED3
LED S7	E23	F22	LED4
LED S6	E24	F23	LED5
LED S5	E25	F24	LED6
LED S4	E26	F25	LED7
LED E	E27	F26	LED8
LED F	E28	F27	LED9
LED G	E29	F28	LED10
LED DP	E30	F29	LED11
LED A	E31	F30	LED12
LED B	E32	F31	LED13
LED C	E33	F32	LED14
LED D	E34	F33	LED15
VGA GREEN0	E35	F34	LED16
VGA BLUE0	E36	F35	LED17
LED20	E37	F36	LED18
LED21	E38	F37	LED19
+5V	E39	F38	+5V
GND	E40	F39	GND
		F40	

PinHeader_40x6

Title		
Size	Number	Revision
A3		
Date:	2017/1/11	Sheet of
File:	F:\allboards\...\PINHEAD.SchDoc	Drawn By: