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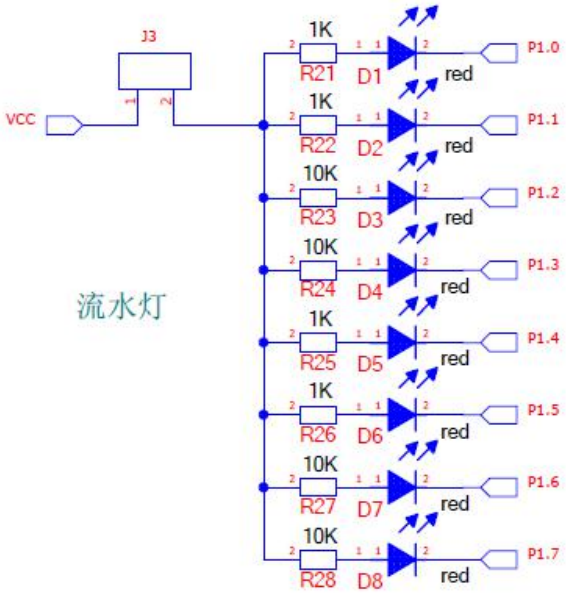
J3
VCC
流水灯
1K
R21
D1
red
P1.0
1K
R22
D2
red
P1.1
10K
R23
D3
red
P1.2
10K
R24
D4
red
P1.3
1K
R25
D5
red
P1.4
1K
R26
D6
red
P1.5
10K
R27
D7
red
P1.6
10K
R28
D8
red
P1.7

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PCB

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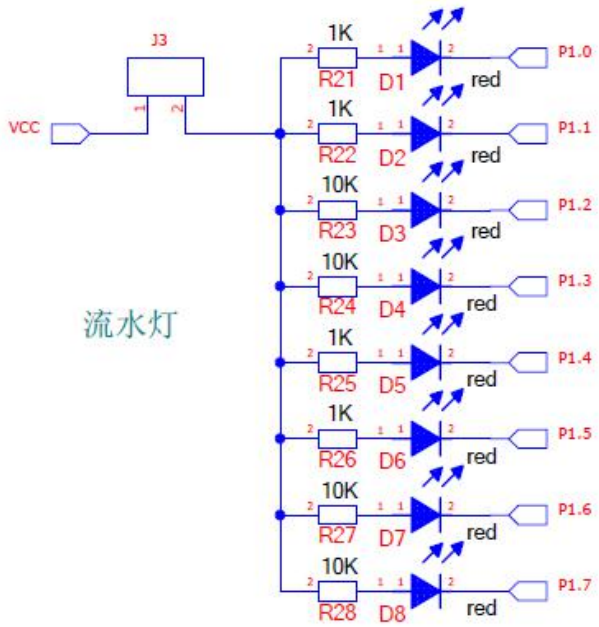
J3
VCC
流水灯
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P1.0
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D2
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D3
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P1.2
10K
R24
D4
red
P1.3
1K
R25
D5
red
P1.4
1K
R26
D6
red
P1.5
10K
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P1.6
10K
R28
D8
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P1.7

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PCB

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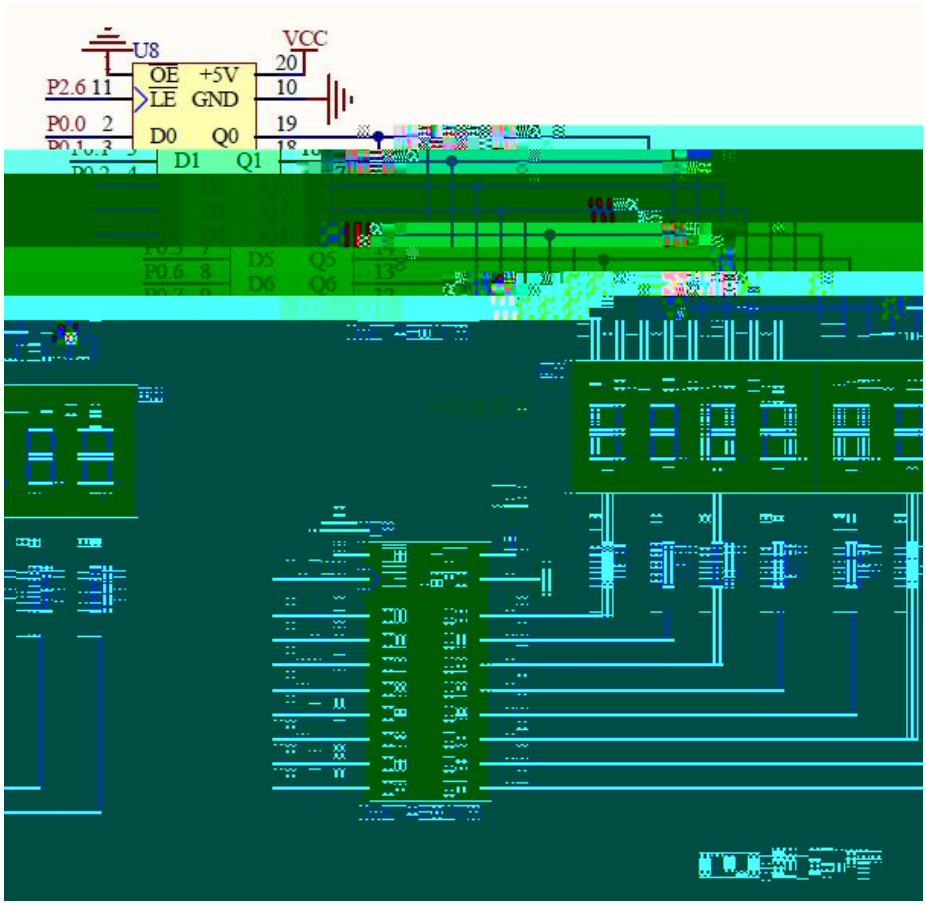

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PCB

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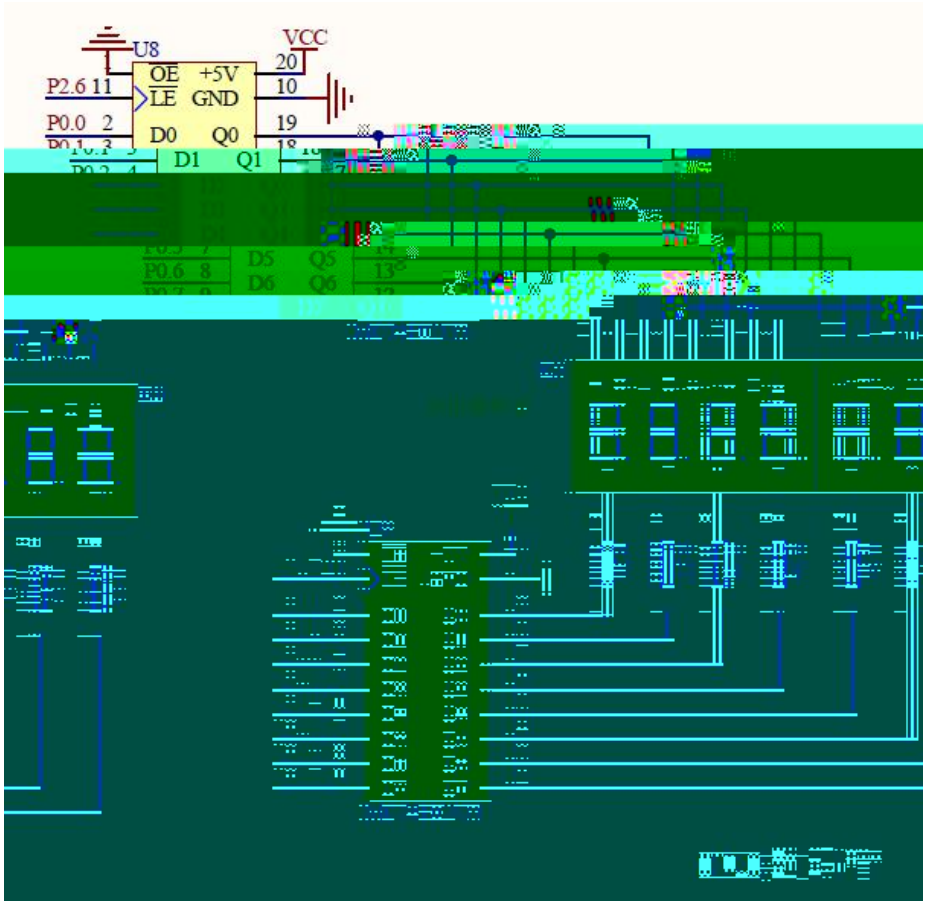
U8
VCC
OE
+5V
LE
GND
D0
Q0
D1
Q1
P2.6
P0.0
P0.6
D5
Q5
D6
Q6
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13

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PCB

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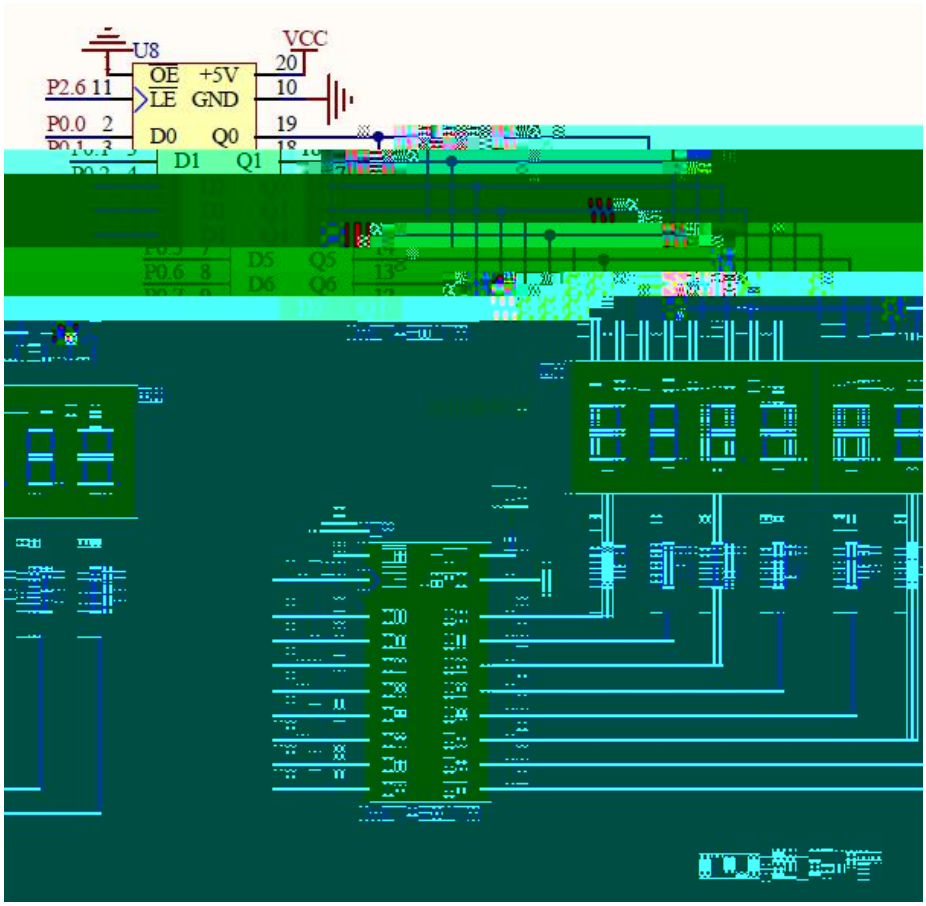
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PCB

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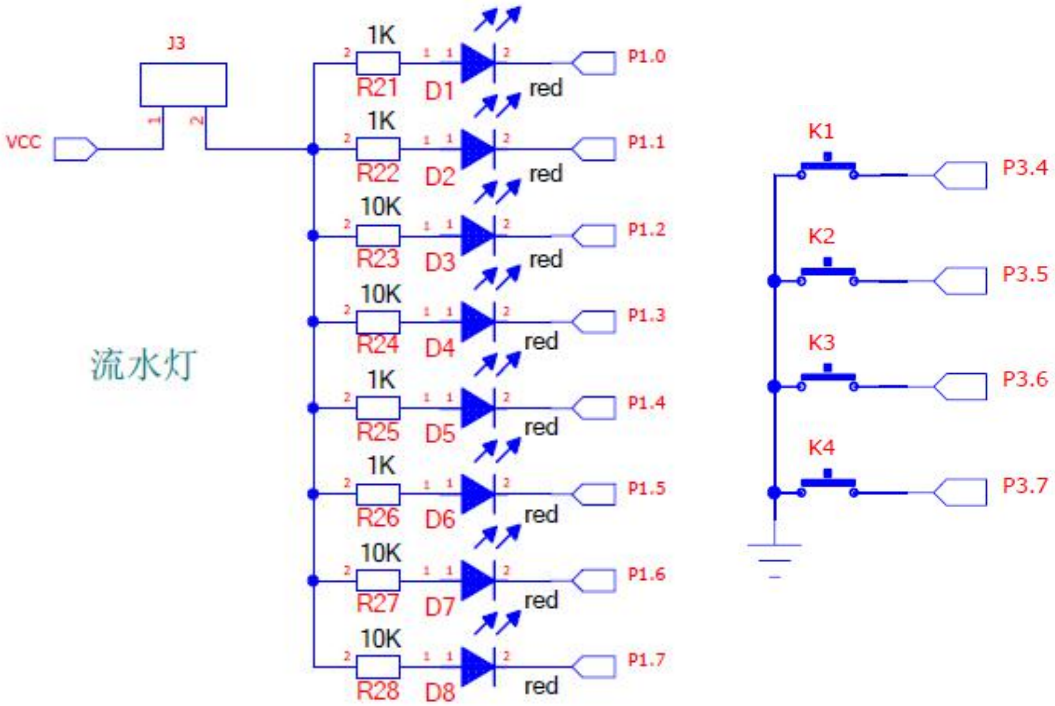
K1 D1 D2 D3 D4 K2 D5 D6 D7 D8 K3 8

K4 8



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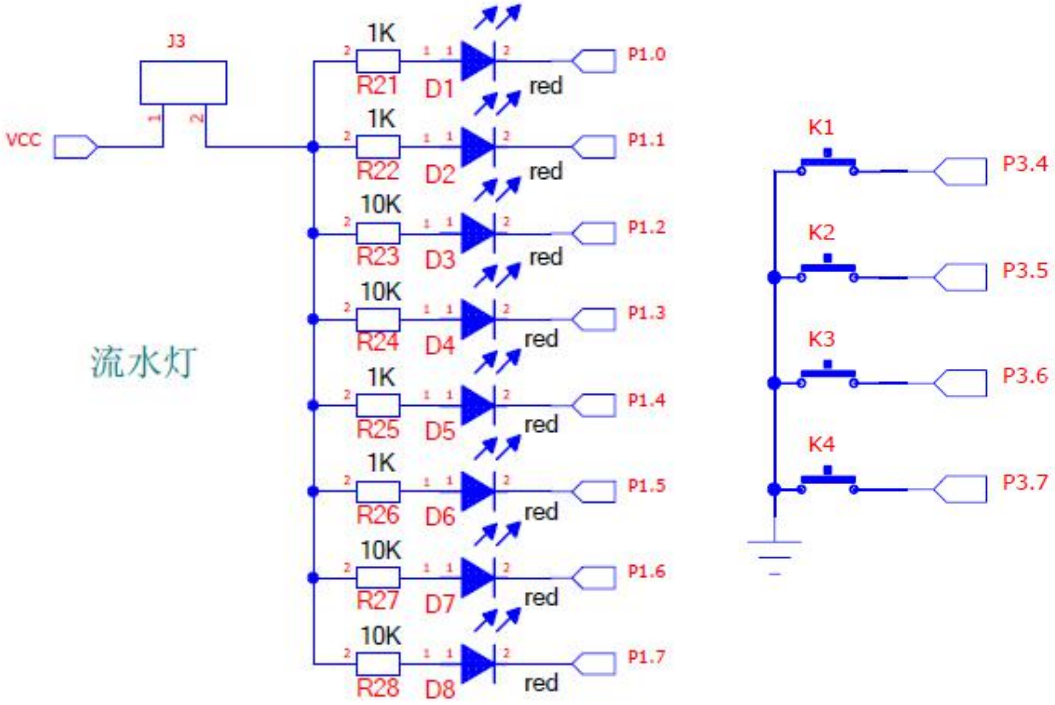
J3
VCC
1K
R21
D1
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P1.0
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D2
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P1.1
10K
R23
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P1.2
10K
R24
D4
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P1.3
1K
R25
D5
red
P1.4
1K
R26
D6
red
P1.5
10K
R27
D7
red
P1.6
10K
R28
D8
red
P1.7
流水灯
K1
P3.4
K2
P3.5
K3
P3.6
K4
P3.7

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PCB

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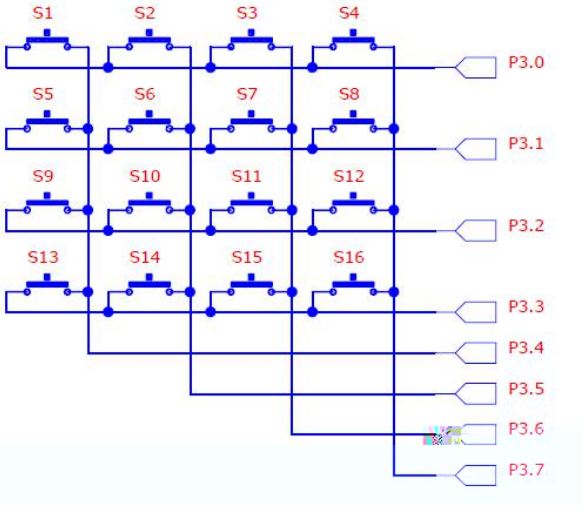
S1-S16 0-F


S1
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S16
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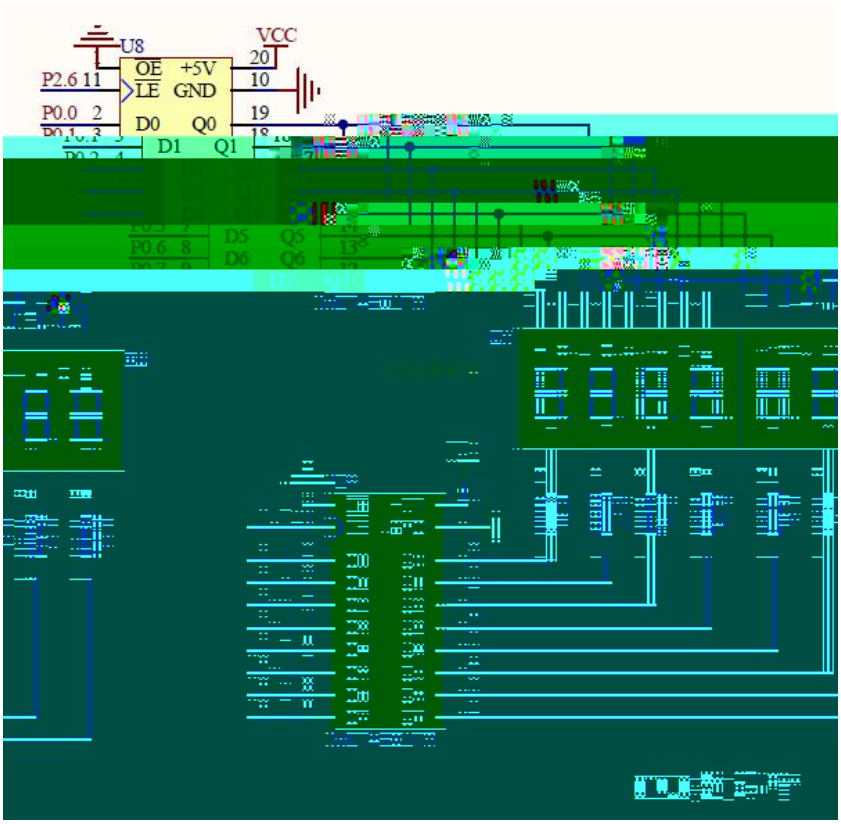
P3.1
P3.2
P3.3
P3.4
P3.5
P3.6
P3.7


U8
VCC
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+5V
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GND
D0
Q0
D1
Q1
P2.6
P0.0
P0.6
D5
Q5
D6
Q6

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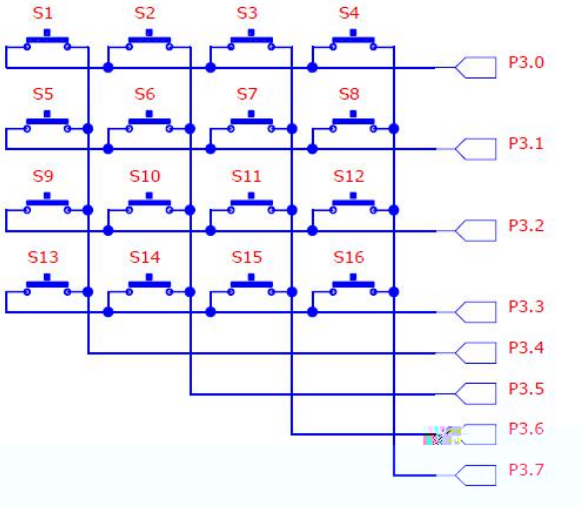
P3.2 1

9 0


S1
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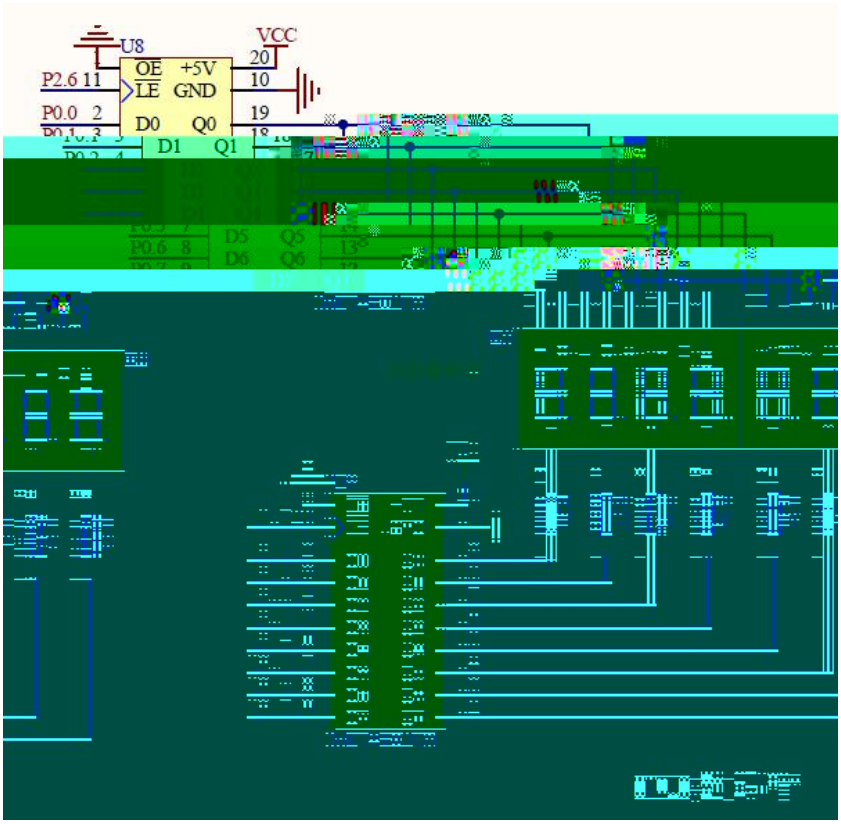
P3.4
P3.5
P3.6
P3.7


U8
VCC
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PCB

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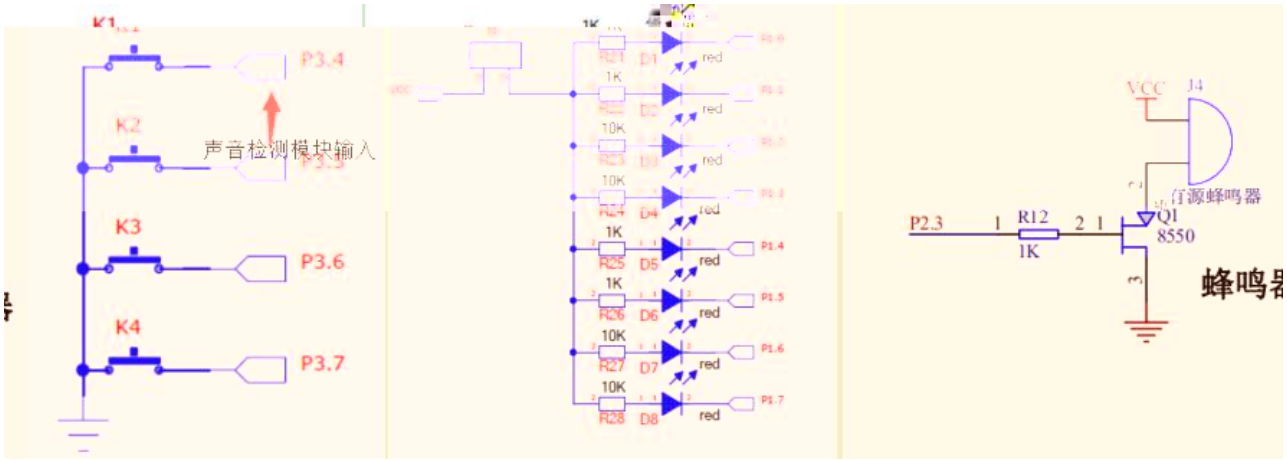
P3.4 P3.4

D1



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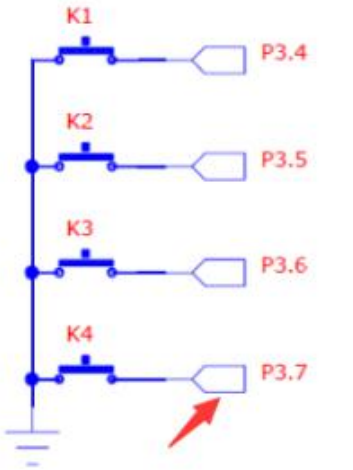
P3.7 P3.7



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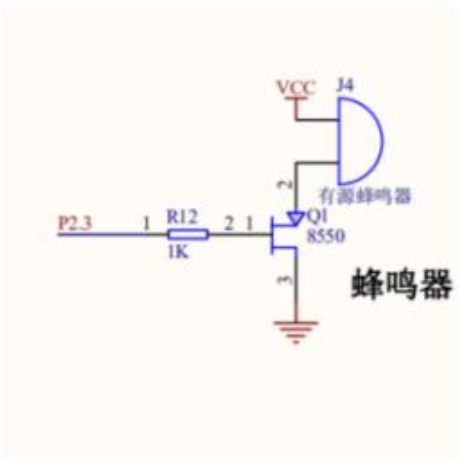

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PCB

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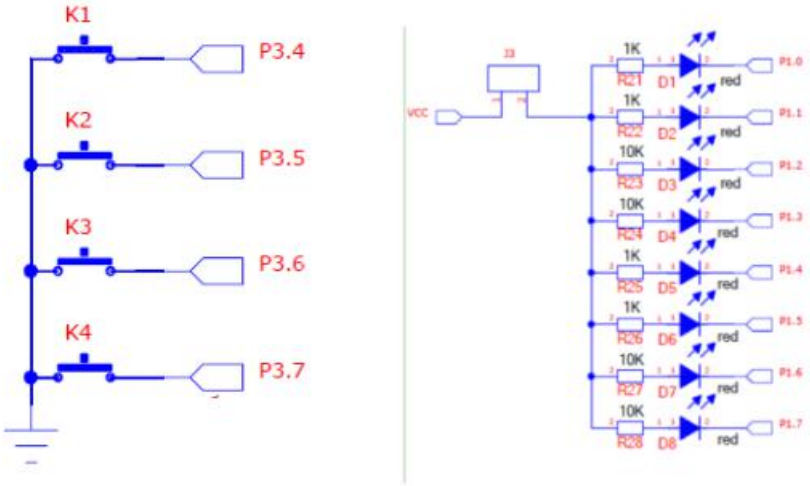
D2



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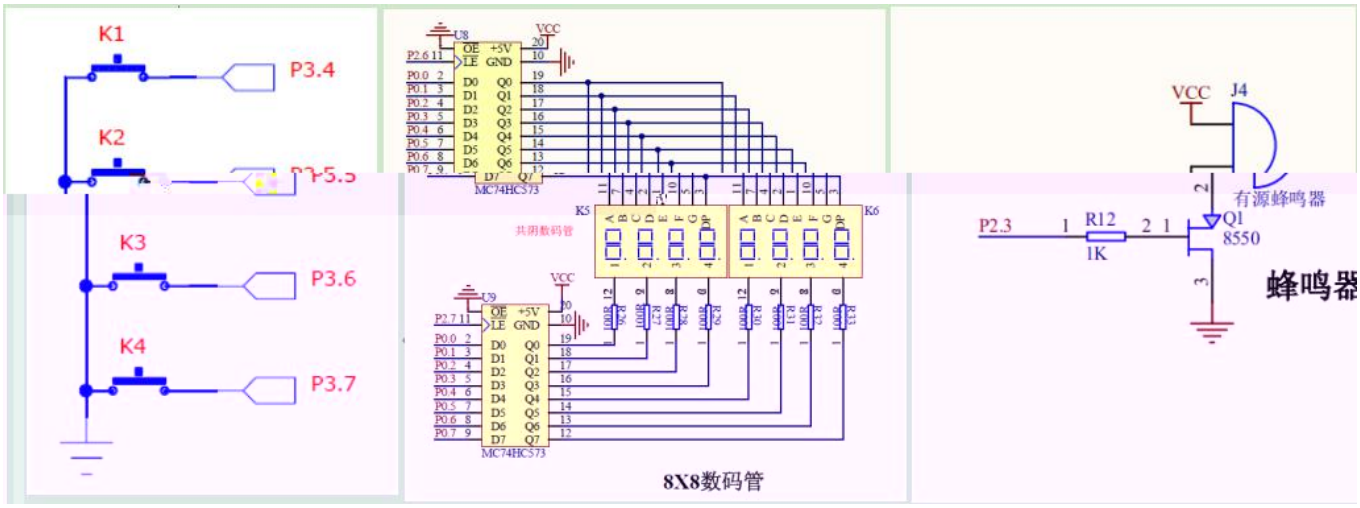

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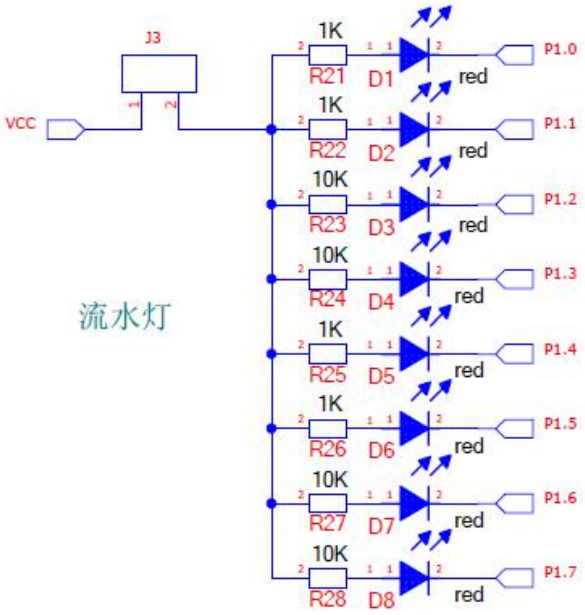
J3
VCC
流水灯
1K
R21
D1
red
P1.0
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R22
D2
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P1.1
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D3
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D4
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P1.3
1K
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P1.5
10K
R27
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P1.7

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PCB

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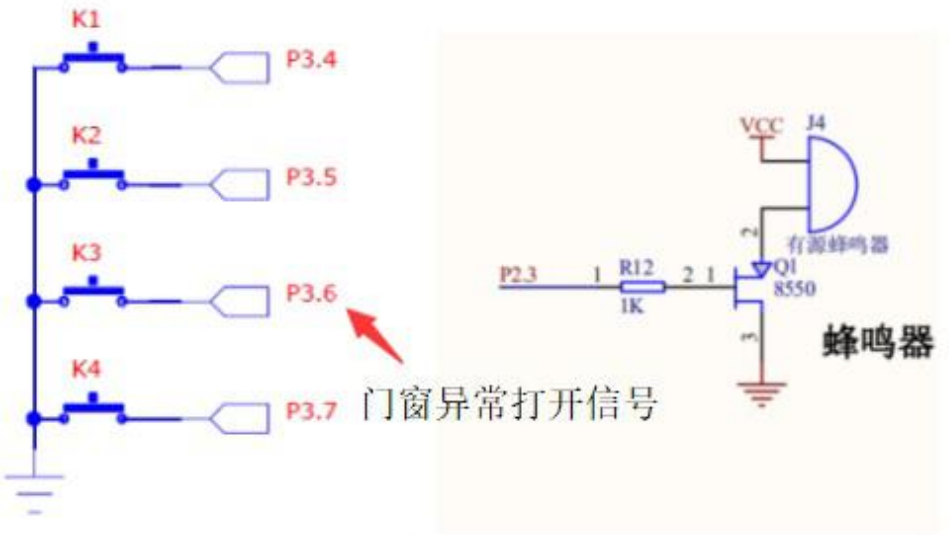
P3.6 P3.6



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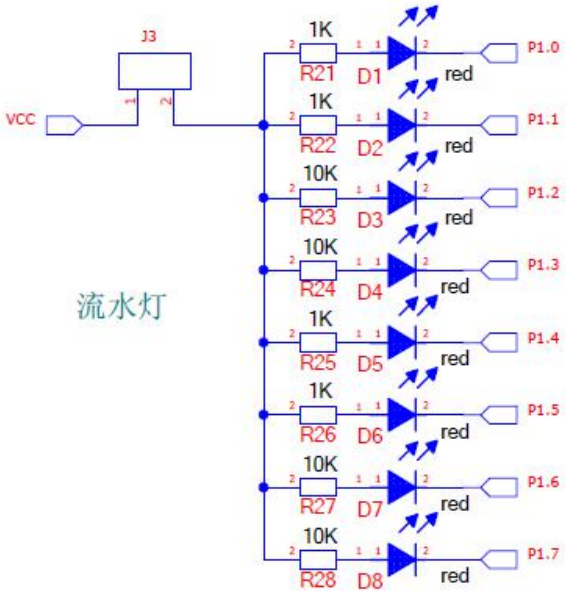

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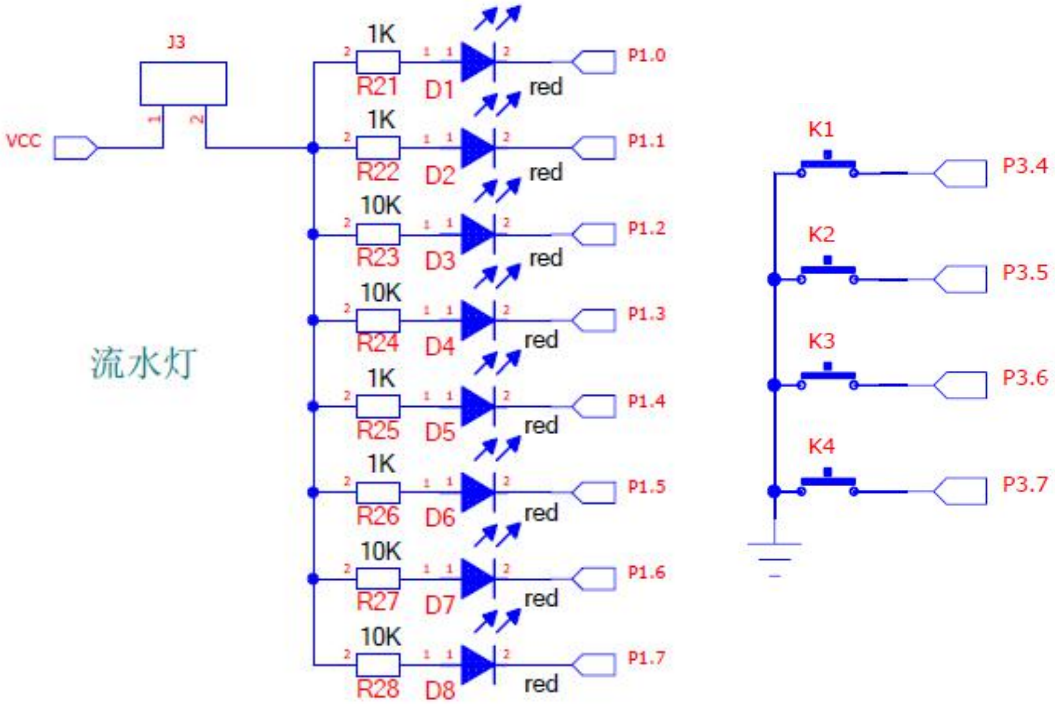
K1 D1-D4 , K2 D5-D8 ,



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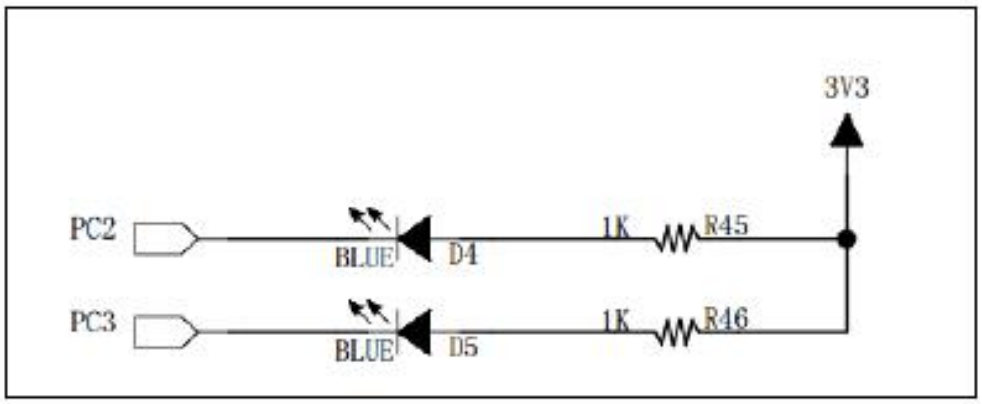
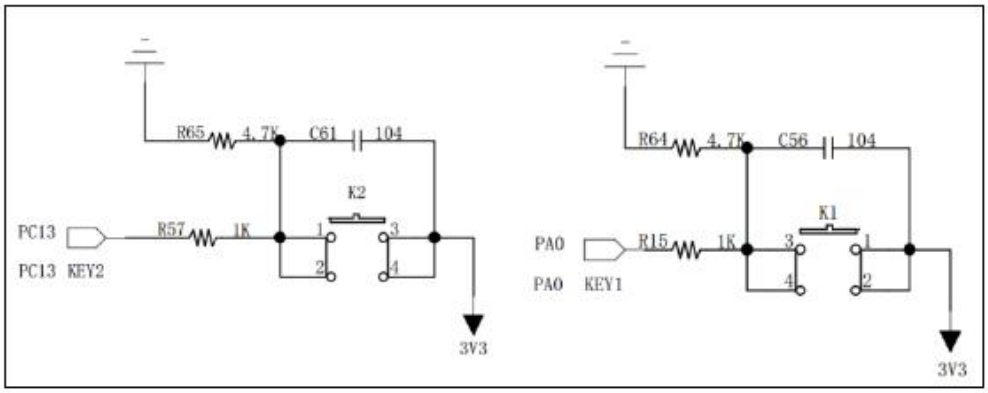

3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46


R65
4.7K
C61
104
K2
PC13
R57
1K
PC13 KEY2
3V3
R64
4.7K
C56
104
K1
PA0
R15
1K
PA0 KEY1
3V3

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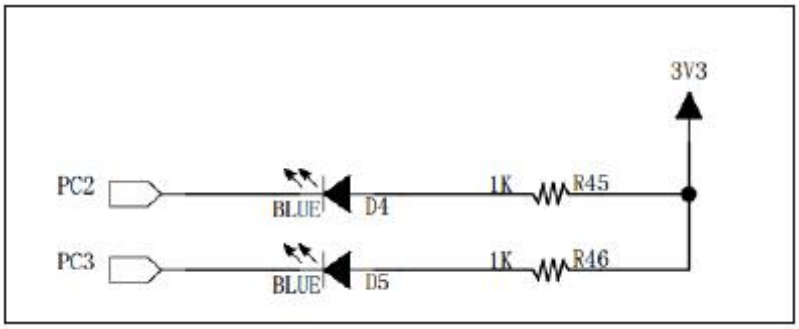

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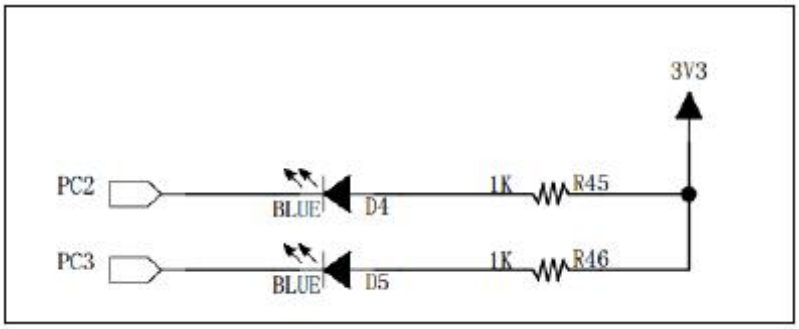

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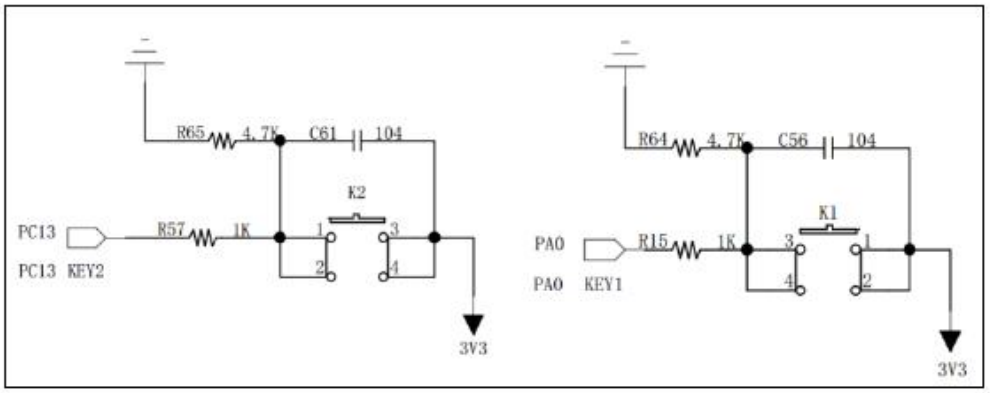
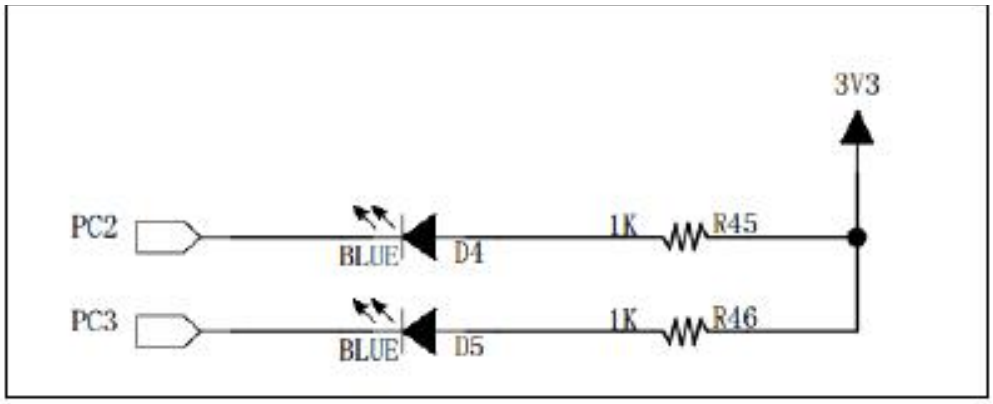

R65
4.7K
C61
104
K2
PC13
R57
1K
PC13 KEY2
3V3
R64
4.7K
C56
104
K1
PA0
R15
1K
PA0 KEY1
3V3


3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46

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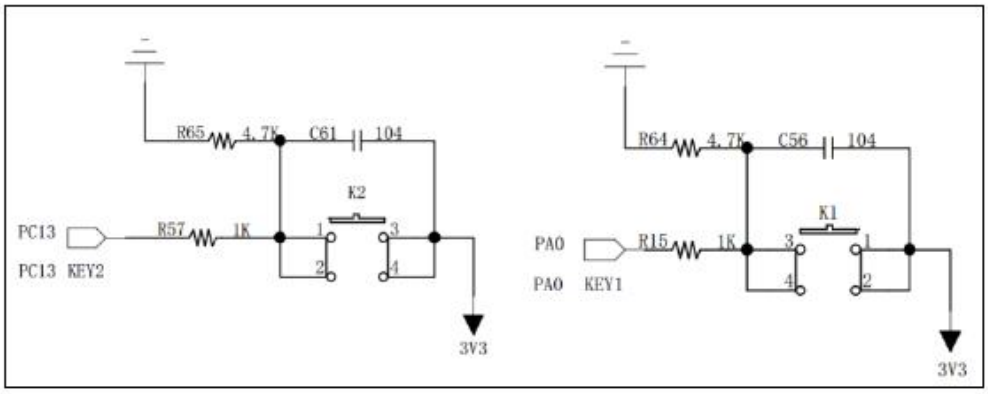
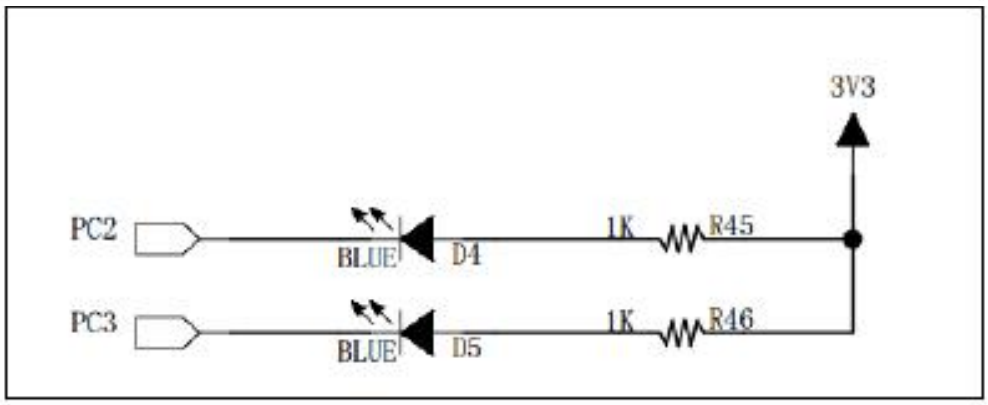

R65
4.7K
C61
104
K2
PC13
R57
1K
PC13 KEY2
3V3
R64
4.7K
C56
104
K1
PA0
R15
1K
PA0 KEY1
3V3


3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46

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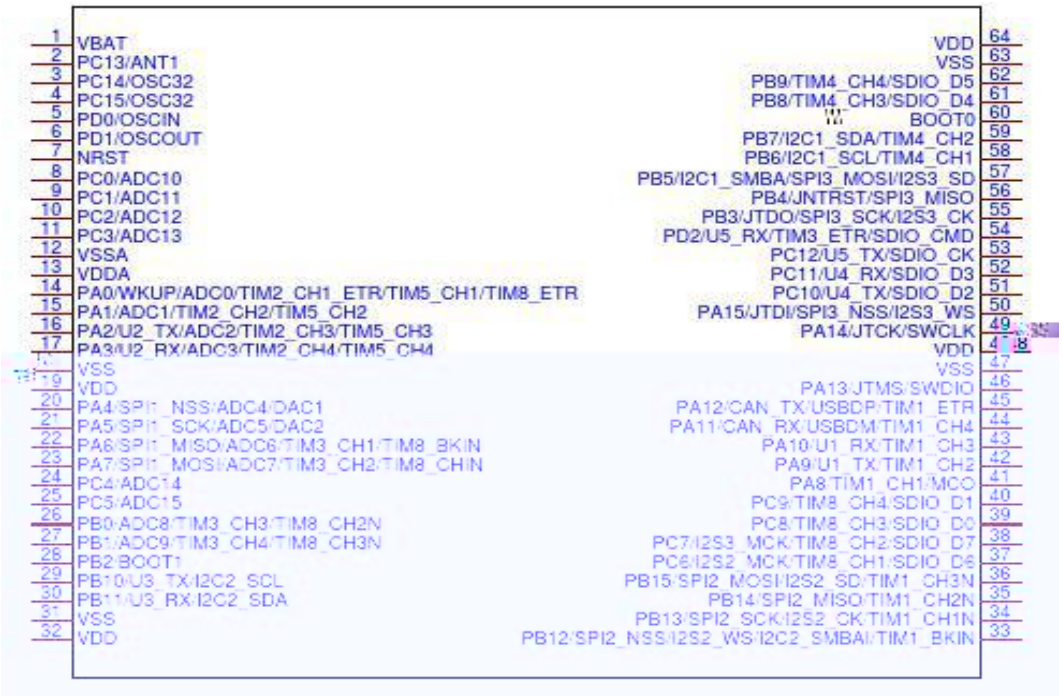
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2 PC13/ANT1
3 PC14/OSC32
4 PC15/OSC32
5 PD0/OSCIN
6 PD1/OSCOUT
7 NRST
8 PC0/ADC10
9 PC1/ADC11
10 PC2/ADC12
11 PC3/ADC13
12 VSSA
13 VDDA
14 PA0/WKUP/ADC0/TIM2_CH1_ETR/TIM5_CH1/TIM8_ETR
15 PA1/ADC1/TIM2_CH2/TIM5_CH2
16 PA2/U2_TX/ADC2/TIM2_CH3/TIM5_CH3
17 PA3/U2_RX/ADC3/TIM2_CH4/TIM5_CH4
18 VSS
19 VDD
20 PA4/SPI1_NSS/ADC4/DAC1
21 PA5/SPI1_SCK/ADC5/DAC2
22 PA6/SPI1_MISO/ADC6/TIM3_CH1/TIM8_BKIN
23 PA7/SPI1_MOSI/ADC7/TIM3_CH2/TIM8_CH1N
24 PC4/ADC14
25 PC5/ADC15
26 PB0/ADC8/TIM3_CH3/TIM8_CH2N
27 PB1/ADC9/TIM3_CH4/TIM8_CH3N
28 PB2/BOOT1
29 PB10/U3_TX/I2C2_SCL
30 PB11/U3_RX/I2C2_SDA
31 VSS
32 VDD
64 VDD
63 VSS
62 PB9/TIM4_CH4/SDIO_D5
61 PB8/TIM4_CH3/SDIO_D4
60 BOOT0
59 PB7/I2C1_SDA/TIM4_CH2
58 PB6/I2C1_SCL/TIM4_CH1
57 PB5/I2C1_SMBA/SPI3_MOSI/I2S3_SD
56 PB4/JNTRST/SPI3_MISO
55 PB3/JTDO/SPI3_SCK/I2S3_CK
54 PD2/U5_RX/TIM3_ETR/SDIO_CMD
53 PC12/U5_TX/SDIO_CK
52 PC11/U4_RX/SDIO_D3
51 PC10/U4_TX/SDIO_D2
50 PA15/JTDI/SPI3_NSS/I2S3_WS
49 PA14/JTCK/SWCLK
48 VDD
47 VSS
46 PA13/JTMS/SWDIO
45 PA12/CAN_TX/USBDP/TIM1_ETR
44 PA11/CAN_RX/USBDM/TIM1_CH4
43 PA10/U1_RX/TIM1_CH3
42 PA9/U1_TX/TIM1_CH2
41 PA8/TIM1_CH1/MCO
40 PC9/TIM8_CH4/SDIO_D1
39 PC8/TIM8_CH3/SDIO_D0
38 PC7/I2S3_MCK/TIM8_CH2/SDIO_D7
37 PC6/I2S2_MCK/TIM8_CH1/SDIO_D6
36 PB15/SPI2_MOSI/I2S2_SD/TIM1_CH3N
35 PB14/SPI2_MISO/TIM1_CH2N
34 PB13/SPI2_SCK/I2S2_CK/TIM1_CH1N
33 PB12/SPI2_NSS/I2S2_WS/I2C2_SMBAI/TIM1_BKIN

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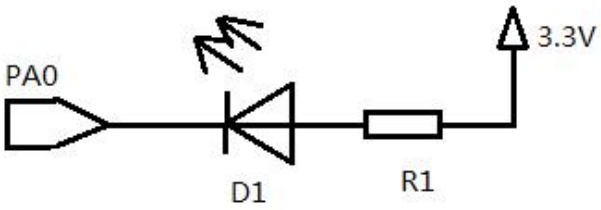

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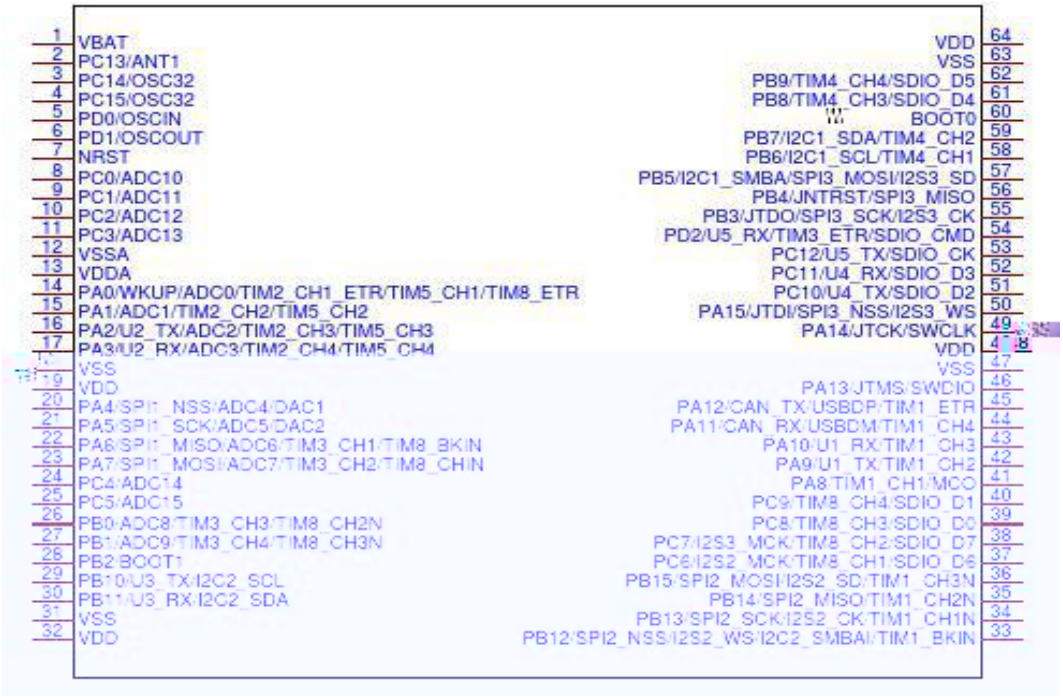
1 VBAT
2 PC13/ANT1
3 PC14/OSC32
4 PC15/OSC32
5 PD0/OSCIN
6 PD1/OSCOUT
7 NRST
8 PC0/ADC10
9 PC1/ADC11
10 PC2/ADC12
11 PC3/ADC13
12 VSSA
13 VDDA
14 PA0/WKUP/ADC0/TIM2_CH1_ETR/TIM5_CH1/TIM8_ETR
15 PA1/ADC1/TIM2_CH2/TIM5_CH2
16 PA2/U2_TX/ADC2/TIM2_CH3/TIM5_CH3
17 PA3/U2_RX/ADC3/TIM2_CH4/TIM5_CH4
18 VSS
19 VDD
20 PA4/SPI1_NSS/ADC4/DAC1
21 PA5/SPI1_SCK/ADC5/DAC2
22 PA6/SPI1_MISO/ADC6/TIM3_CH1/TIM8_BKIN
23 PA7/SPI1_MOSI/ADC7/TIM3_CH2/TIM8_CH1N
24 PC4/ADC14
25 PC5/ADC15
26 PB0/ADC8/TIM3_CH3/TIM8_CH2N
27 PB1/ADC9/TIM3_CH4/TIM8_CH3N
28 PB2/BOOT1
29 PB10/U3_TX/I2C2_SCL
30 PB11/U3_RX/I2C2_SDA
31 VSS
32 VDD
64 VDD
63 VSS
62 PB9/TIM4_CH4/SDIO_D5
61 PB8/TIM4_CH3/SDIO_D4
60 BOOT0
59 PB7/I2C1_SDA/TIM4_CH2
58 PB6/I2C1_SCL/TIM4_CH1
57 PB5/I2C1_SMBA/SPI3_MOSI/I2S3_SD
56 PB4/JNTRST/SPI3_MISO
55 PB3/JTDO/SPI3_SCK/I2S3_CK
54 PD2/U5_RX/TIM3_ETR/SDIO_CMD
53 PC12/U5_TX/SDIO_CK
52 PC11/U4_RX/SDIO_D3
51 PC10/U4_TX/SDIO_D2
50 PA15/JTDI/SPI3_NSS/I2S3_WS
49 PA14/JTCK/SWCLK
48 VDD
47 VSS
46 PA13/JTMS/SWDIO
45 PA12/CAN_TX/USBDP/TIM1_ETR
44 PA11/CAN_RX/USBDM/TIM1_CH4
43 PA10/U1_RX/TIM1_CH3
42 PA9/U1_TX/TIM1_CH2
41 PA8/TIM1_CH1/MCO
40 PC9/TIM8_CH4/SDIO_D1
39 PC8/TIM8_CH3/SDIO_D0
38 PC7/I2S3_MCK/TIM8_CH2/SDIO_D7
37 PC6/I2S2_MCK/TIM8_CH1/SDIO_D6
36 PB15/SPI2_MOSI/I2S2_SD/TIM1_CH3N
35 PB14/SPI2_MISO/TIM1_CH2N
34 PB13/SPI2_SCK/I2S2_CK/TIM1_CH1N
33 PB12/SPI2_NSS/I2S2_WS/I2C2_SMBAI/TIM1_BKIN

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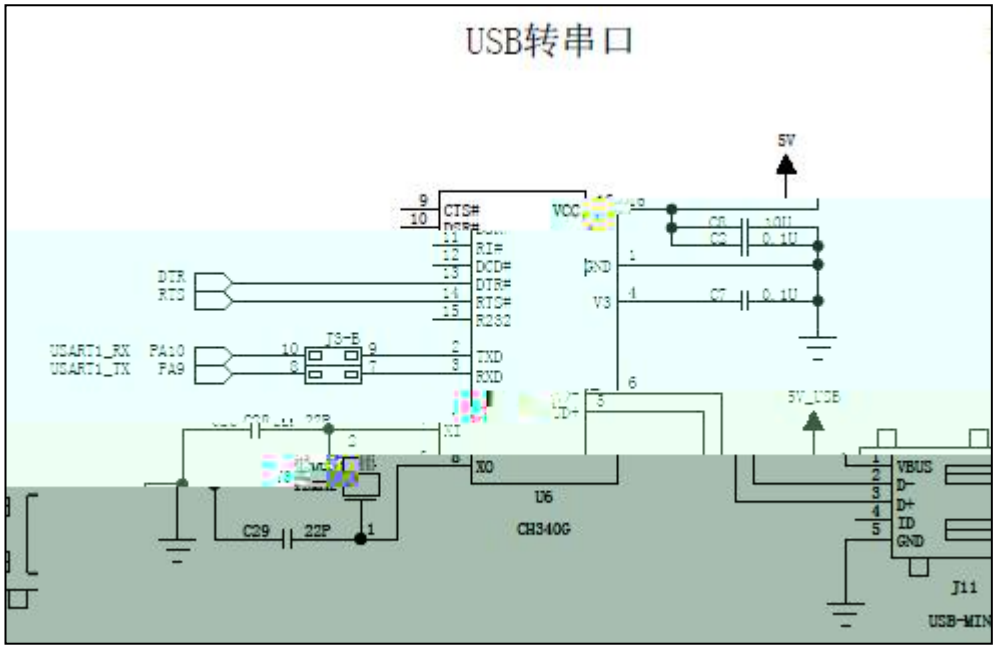
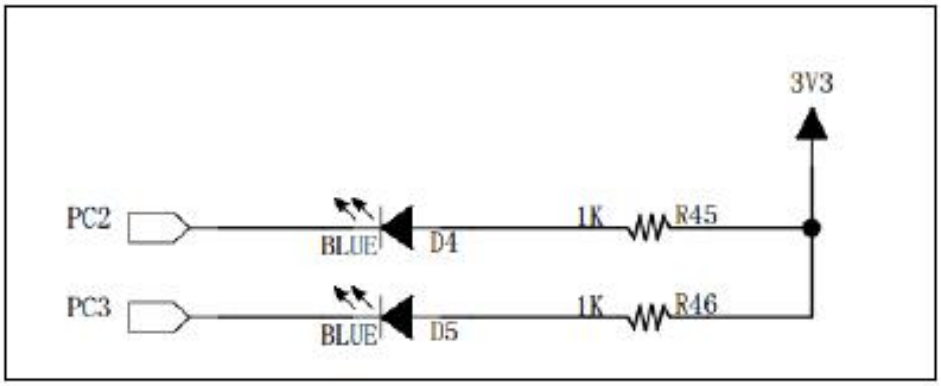

USB转串口
5V
CTS#
RI#
DCD#
DTR#
RTS#
RS232
VCC
GND
V3
C6
C7
0.1U
DTR
RTS
USART1_RX
USART1_TX
PA10
PA9
TS-B
TXD
RXD
5V_USB
XO
U6
CH340G
C29
22P
VBUS
D-
D+
ID
GND
J11
USB-MIN


3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46

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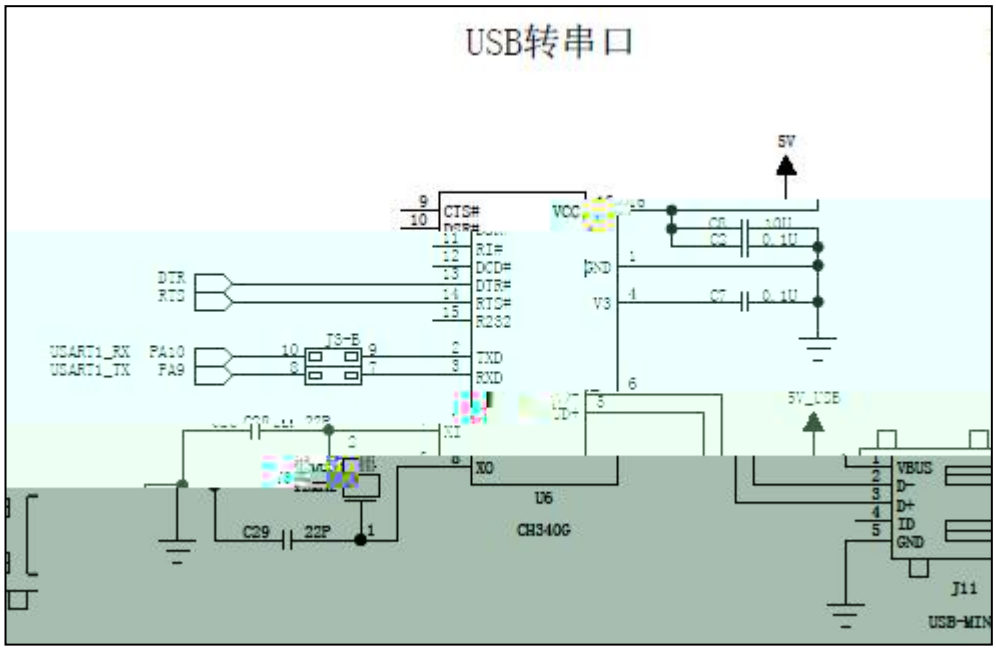
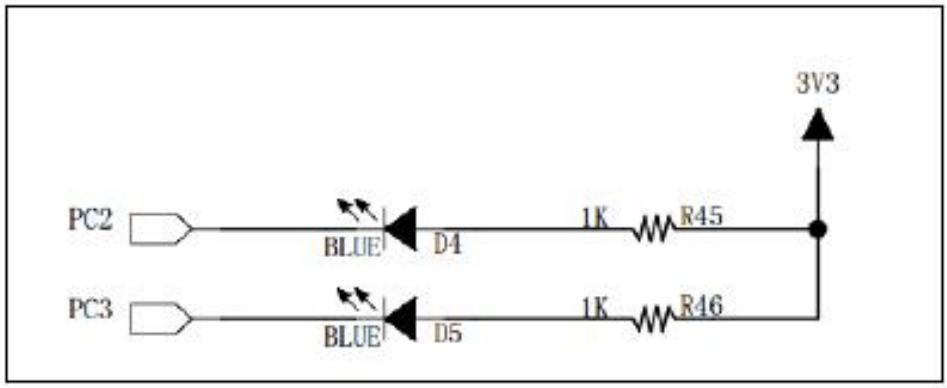

USB转串口
5V
CTS#
RI#
DCD#
DTR#
RTS#
R232
VCC
GND
V3
C6
C7
0.1U
DTR
RTS
USART1_RX
USART1_TX
PA10
PA9
JS-B
TXD
RXD
D+
5V_USB
XO
U6
CH340G
C29
22P
VBUS
D-
D+
ID
GND
J11
USB-MIN


3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46

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[redacted]

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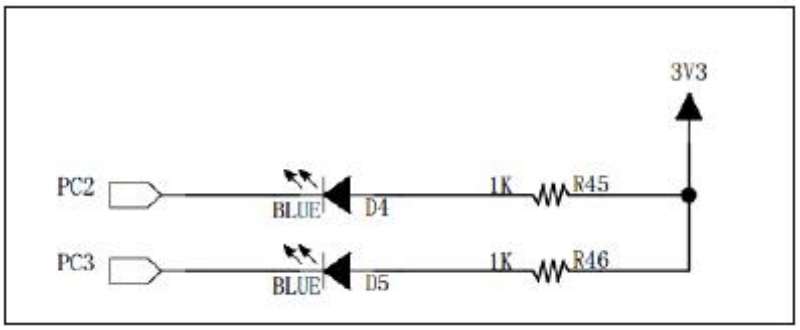
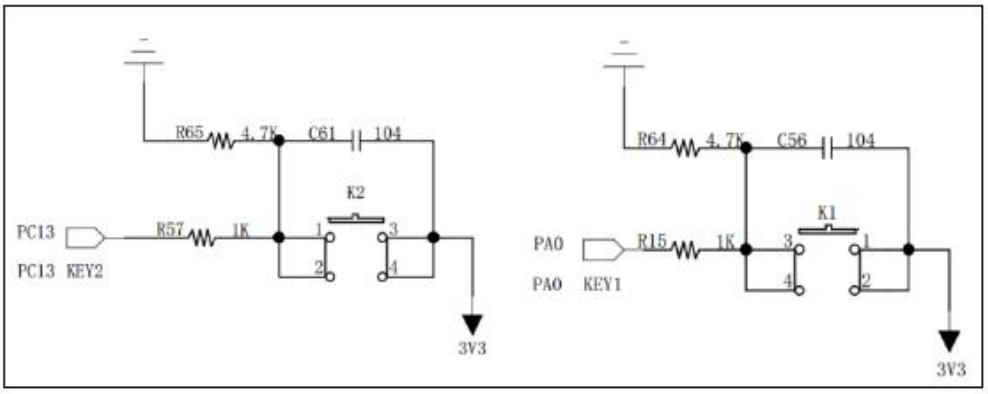
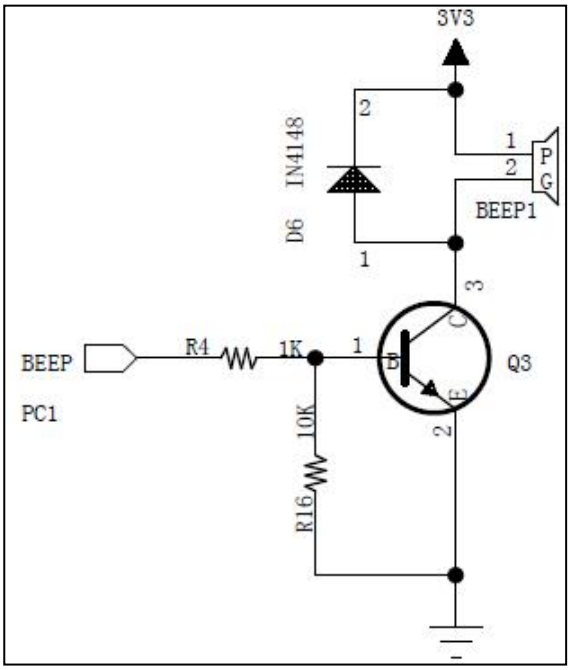

3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46


R65
4.7K
C61
104
K2
PC13
R57
1K
PC13 KEY2
3V3
R64
4.7K
C56
104
K1
PA0
R15
1K
PA0 KEY1
3V3


3V3
D6 IN4148
BEEP1
P
G
BEEP
R4
1K
Q3
PC1
10K
R16

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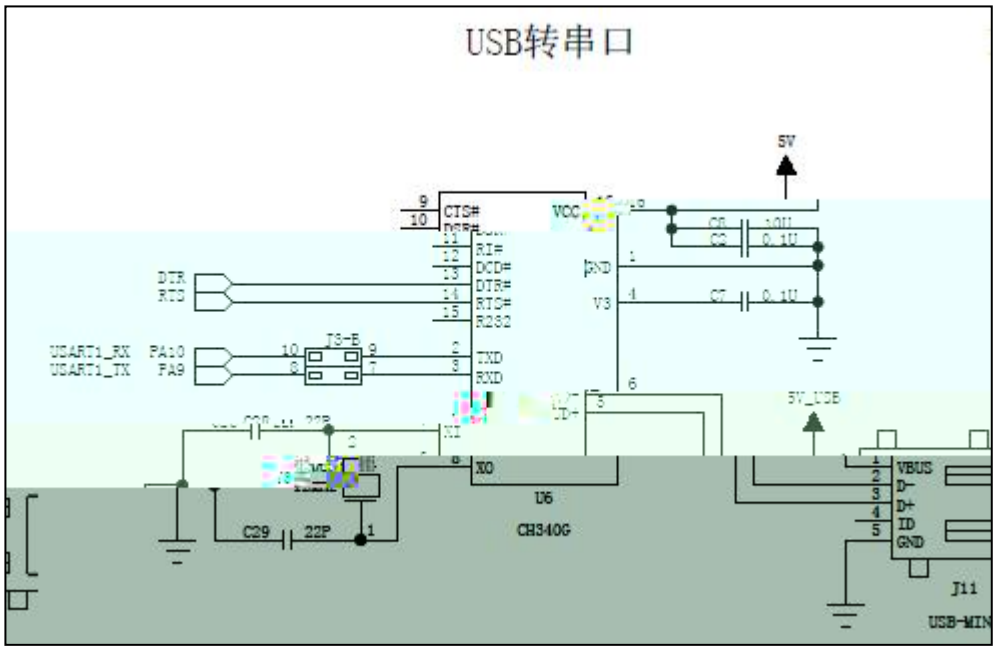
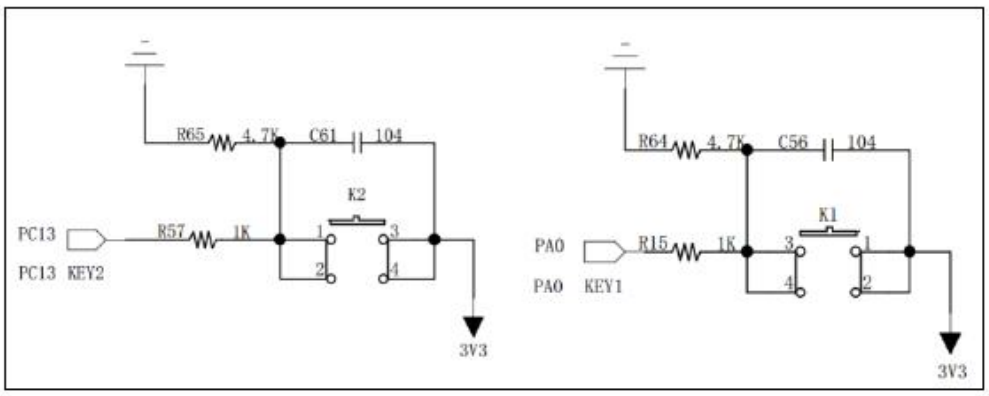

USB转串口
5V
VCC
GND
V3
C8
C7
0.1U
DTR
RTS
UART1_RX
UART1_TX
PA10
PA9
T3-E
TXD
RXD
CTS#
RI#
DCD#
DTR#
RTS#
RS232
C29
22P
XO
U6
CH340G
5V_USB
VBUS
D-
D+
ID
GND
J11
USB-MIN


R65
4.7K
C61
104
K2
PC13
R57
1K
PC13 KEY2
3V3
R64
4.7K
C56
104
K1
PA0
R15
1K
PA0 KEY1
3V3

2

3

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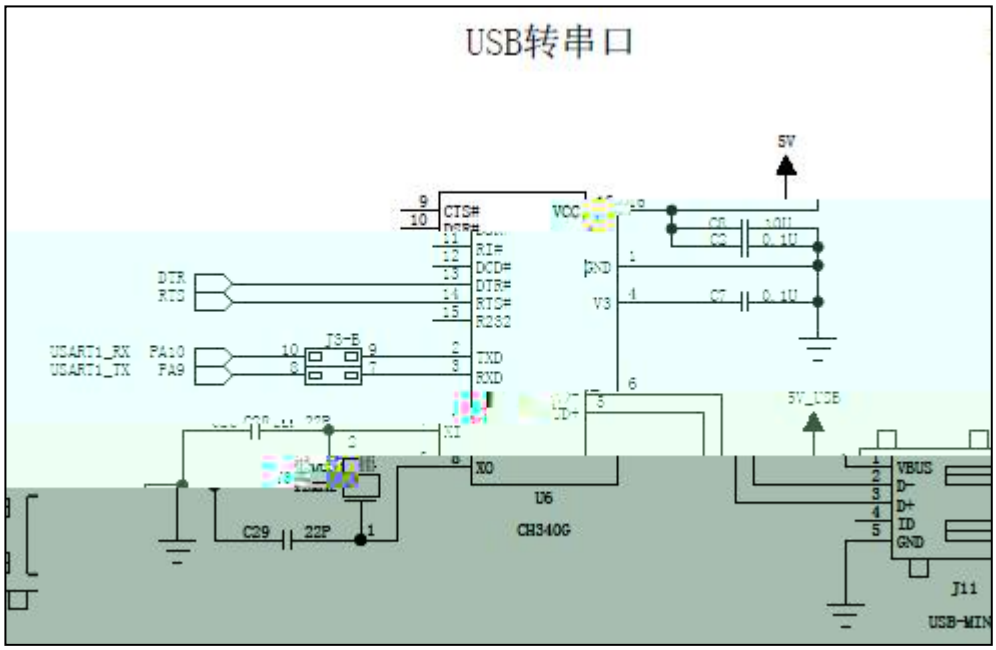
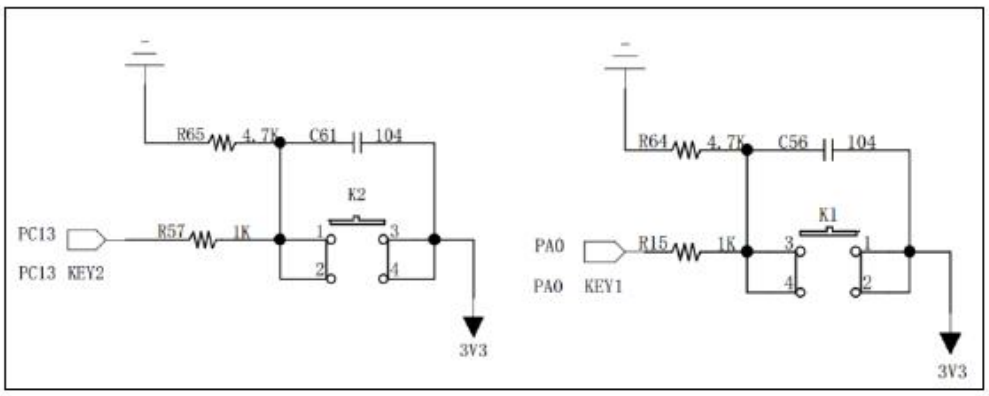

USB转串口
5V
CTS#
RI#
DCD#
DTR#
RTS#
RS232
DTR
RTS
UART1_RX PA10
UART1_TX PA9
TXD
RXD
VCC
GND
V3
C8 10U
C9 0.1U
C7 0.1U
5V_USB
XO
U6
CH340G
C29 22P
VBUS
D-
D+
ID
GND
J11
USB-MIN


R65 4.7K
C61 104
K2
PC13
R57 1K
PC13 KEY2
3V3
R64 4.7K
C56 104
K1
PA0
R15 1K
PA0 KEY1
3V3

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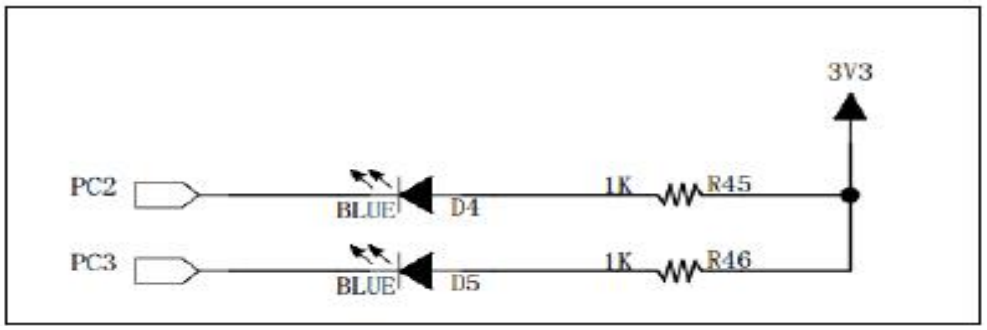
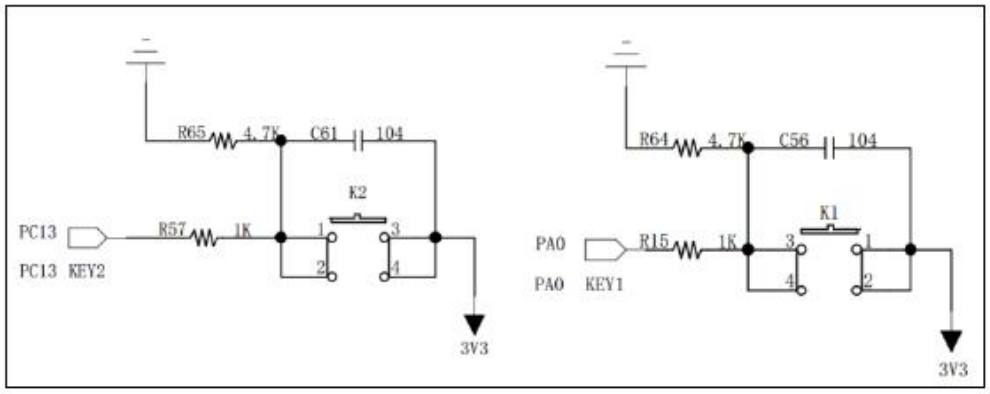
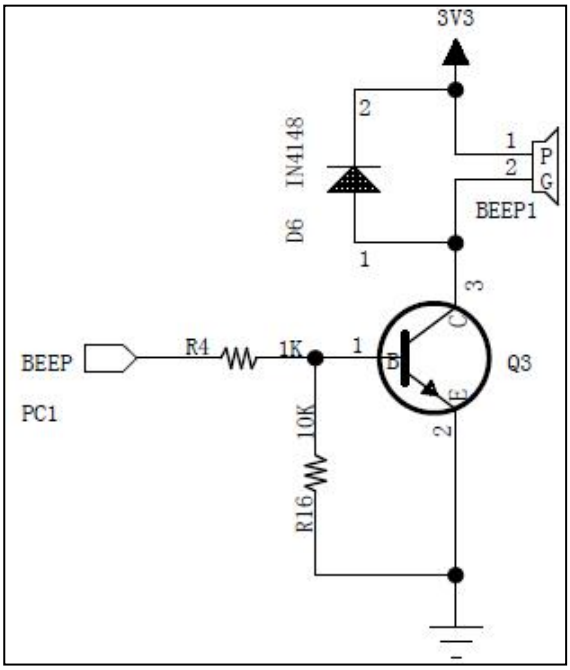

3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46


R65
4.7K
C61
104
K2
PC13
R57
1K
PC13 KEY2
3V3
R64
4.7K
C56
104
K1
PA0
R15
1K
PA0 KEY1
3V3


3V3
D6 IN4148
BEEP1
P
G
BEEP
R4
1K
Q3
PC1
10K
R16

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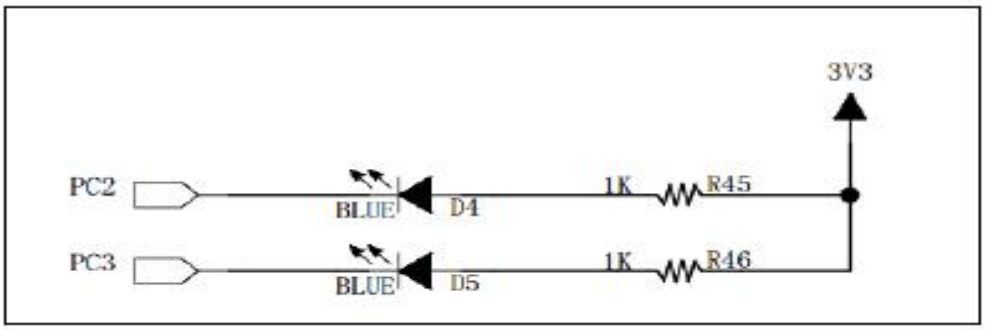

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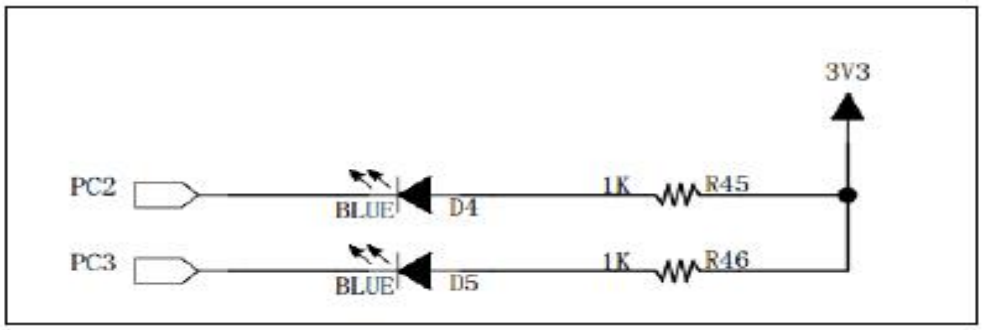
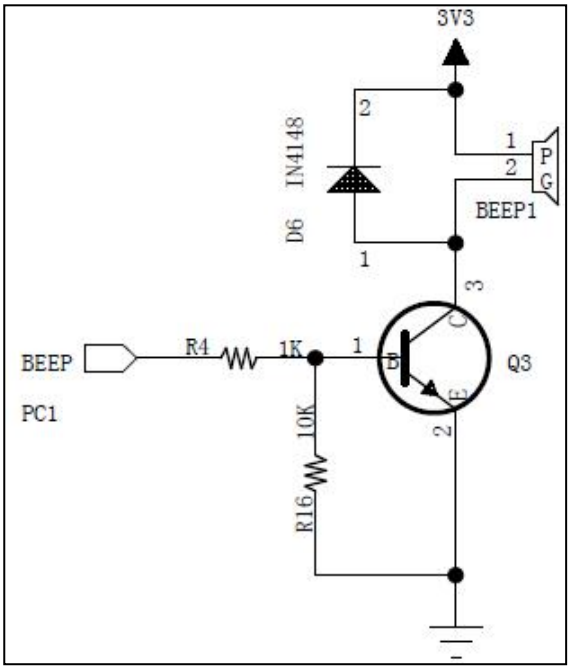

3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46


3V3
2
D6
IN4148
1
1
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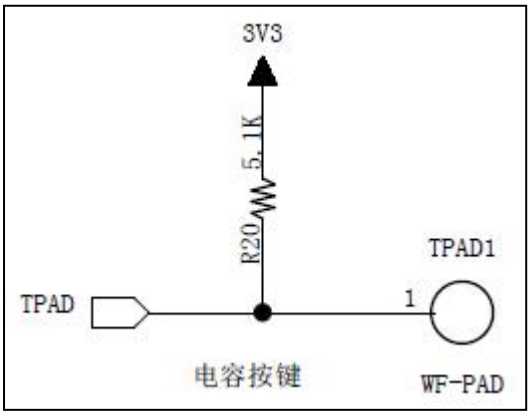
P
G
BEEP1
3
BEEP
R4
1K
1
Q3
PC1
10K
R16
2


3V3
5.1K
R20
TPAD1
TPAD
1
电容按键
WF-PAD

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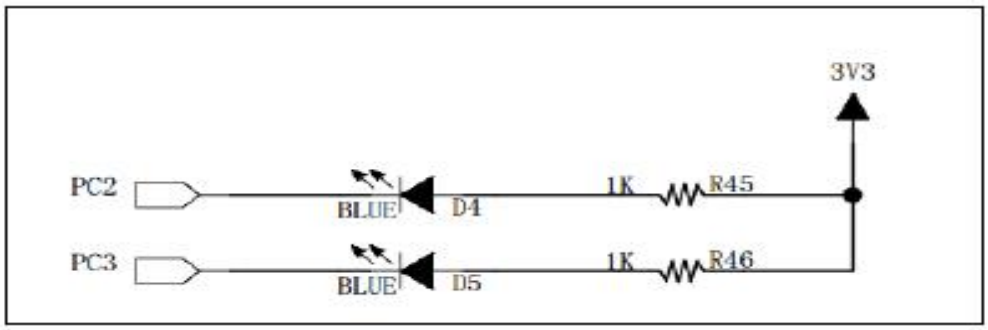
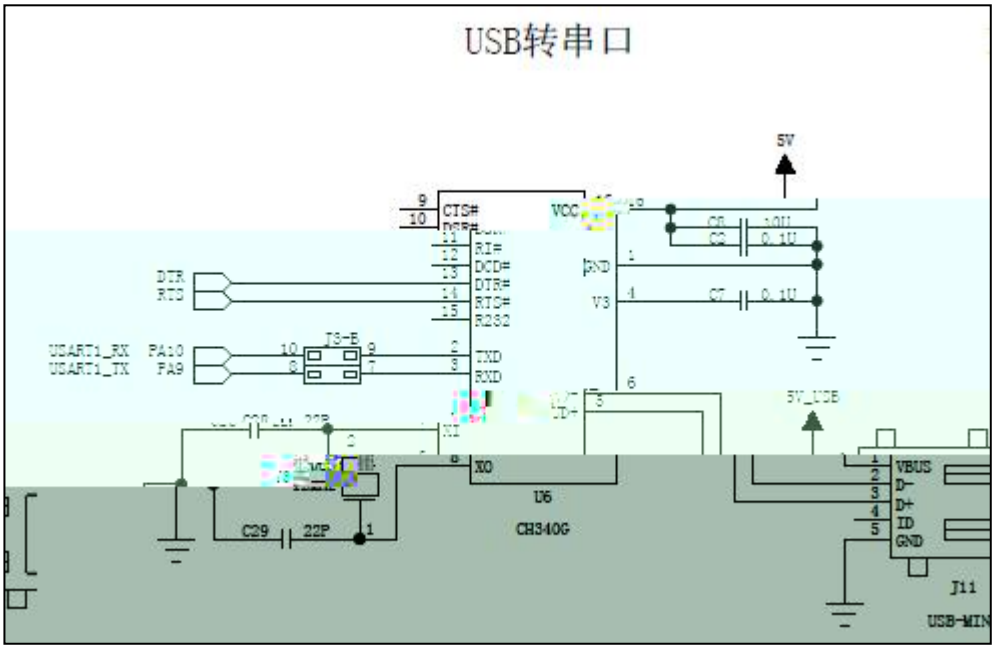

3V3
PC2
BLUE
D4
1K
R45
PC3
BLUE
D5
1K
R46


USB转串口
5V
CTS#
RI#
DCD#
DTR#
RTS#
R232
DTR
RTS
USART1_RX
USART1_TX
PA10
PA9
J3-B
TXD
RXD
VCC
GND
V3
C6
C7
0.1U
5V_USB
XI
XO
U6
CH340G
C29
22P
VBUS
D-
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ID
GND
J11
USB-MIN

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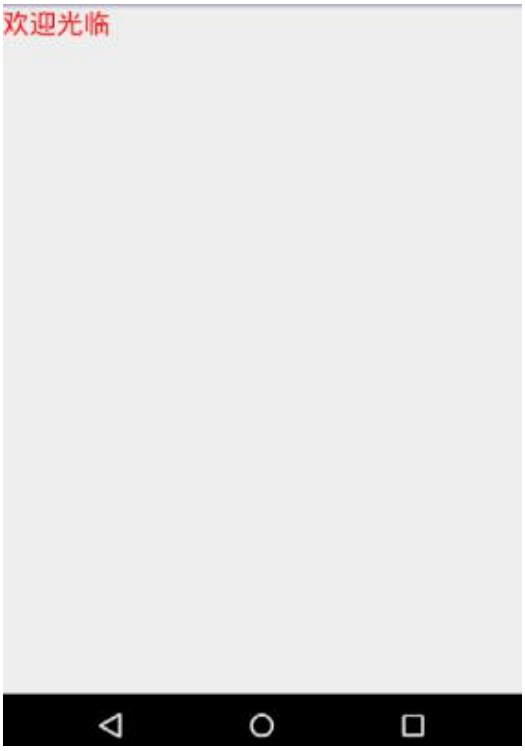

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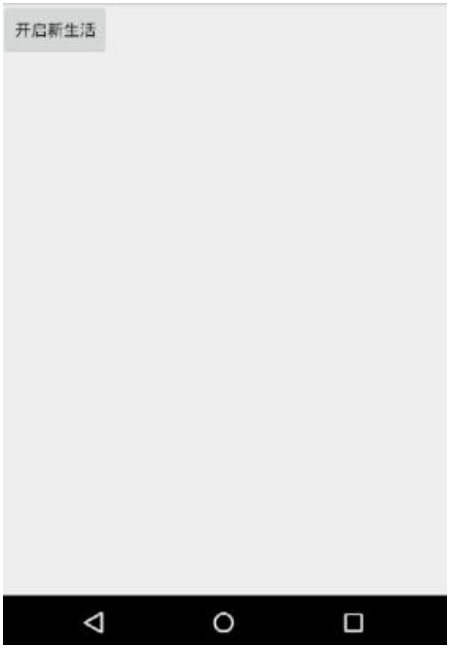

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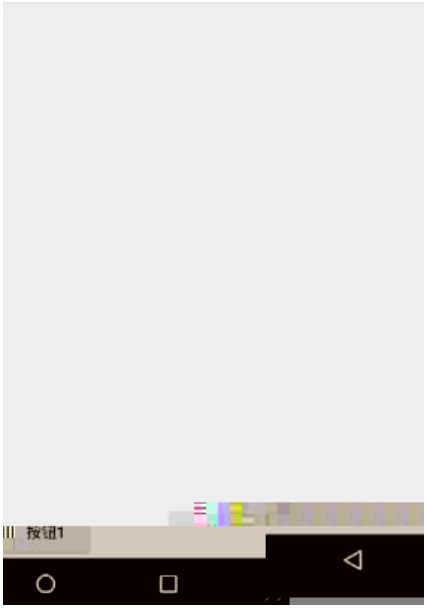

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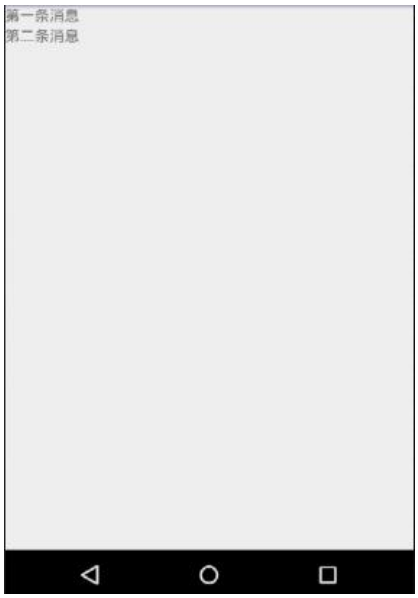

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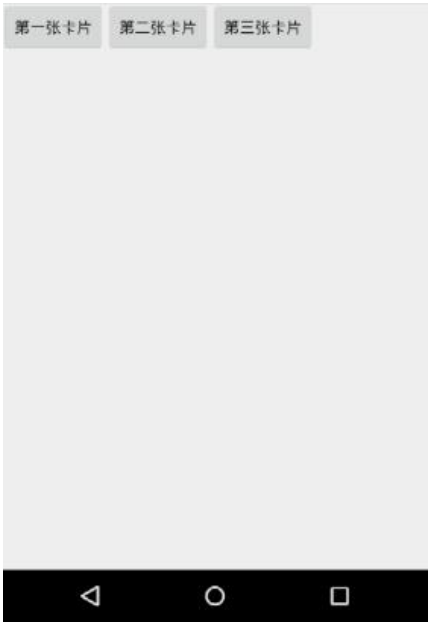

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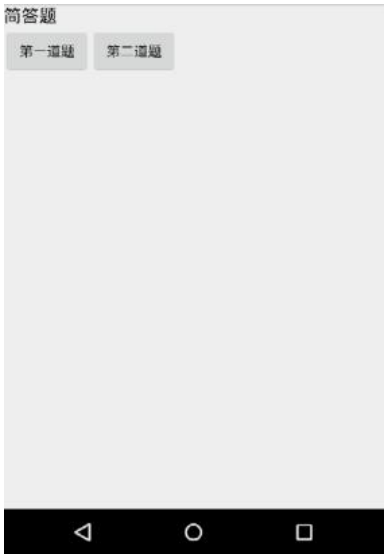

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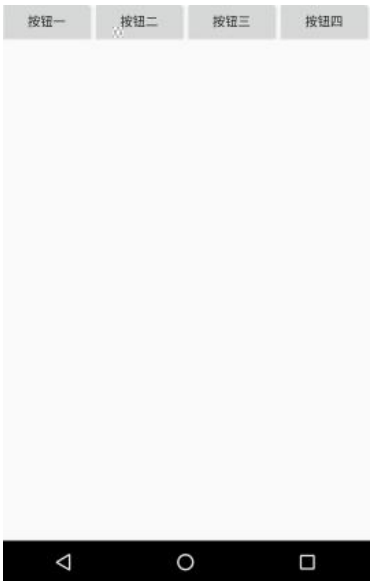

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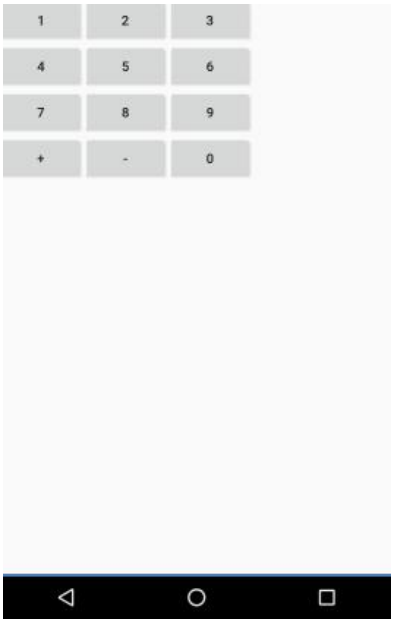

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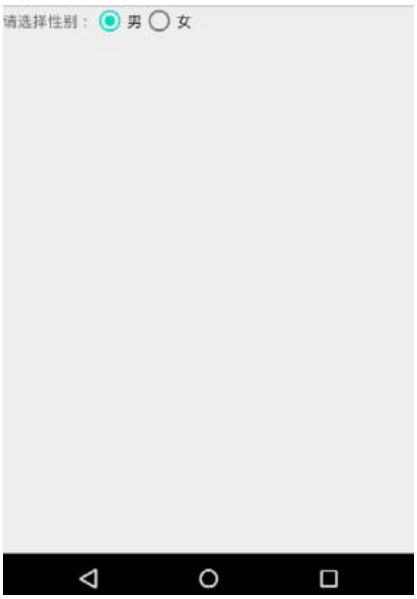

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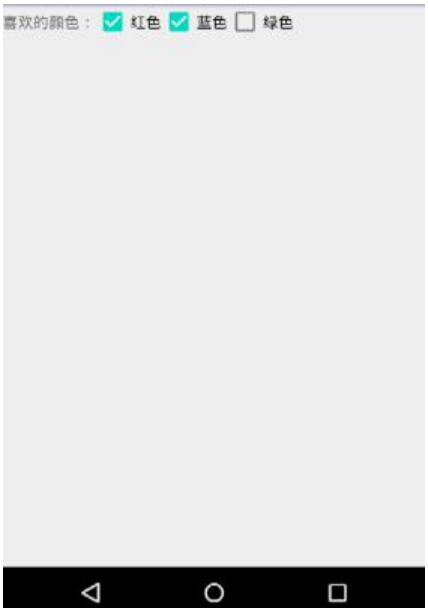

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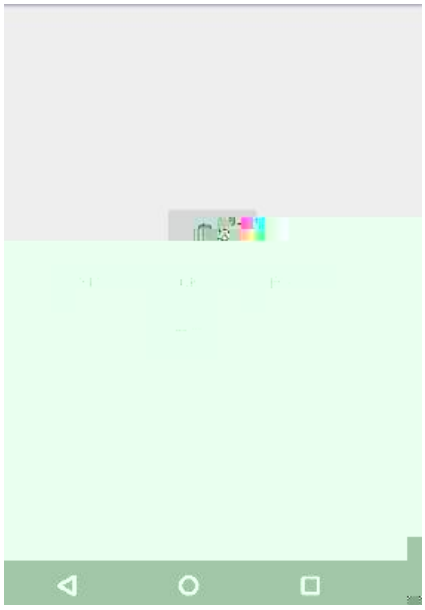

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LED

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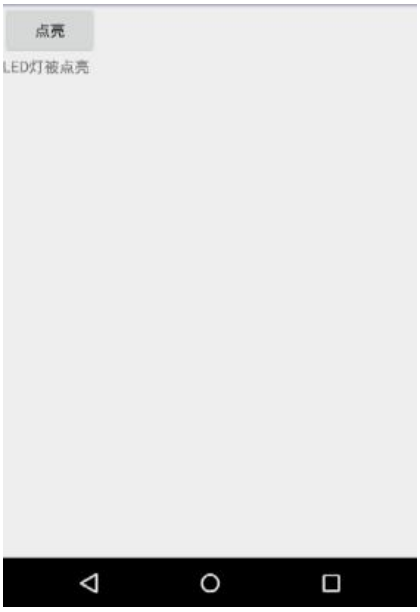
3 TextView LED



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LED

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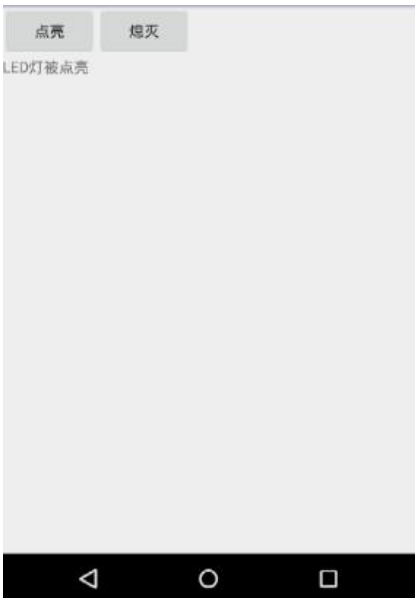
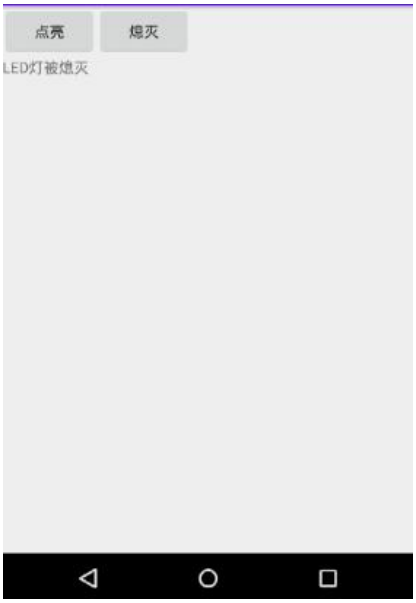
3 TextView LED





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LED

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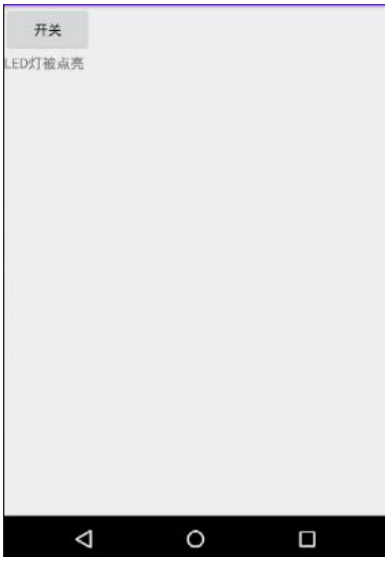
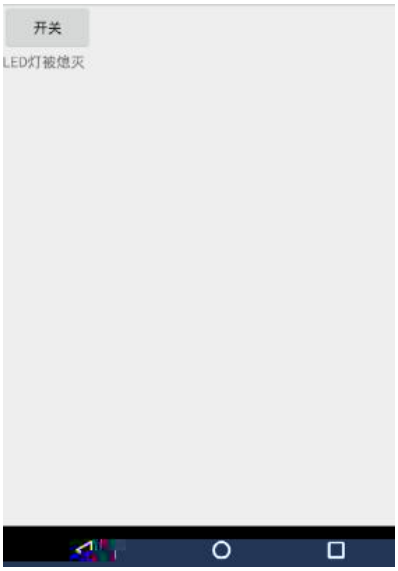
3 TextView LED





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LED

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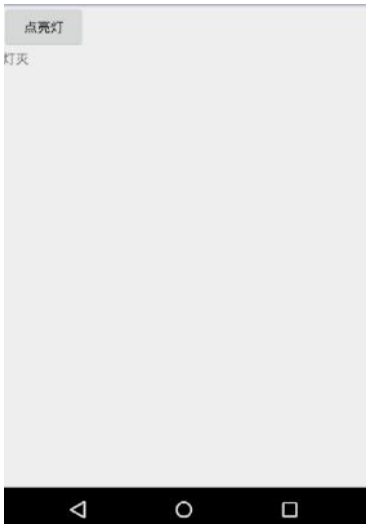
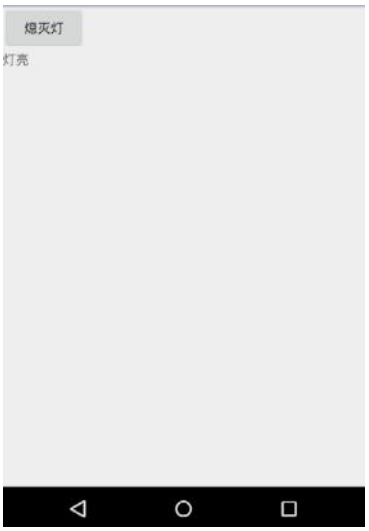
4 TextView





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LED

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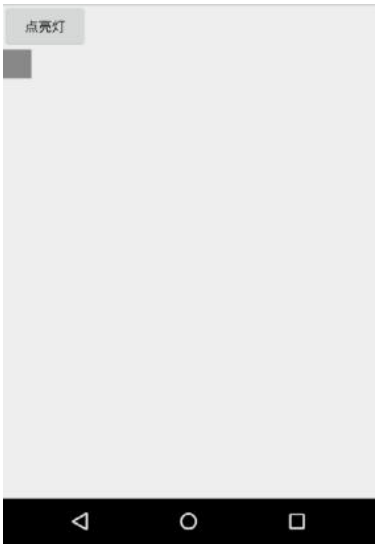
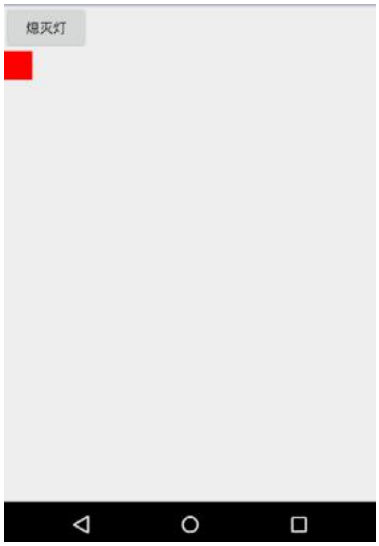
4 ImageView 30dp*30dp





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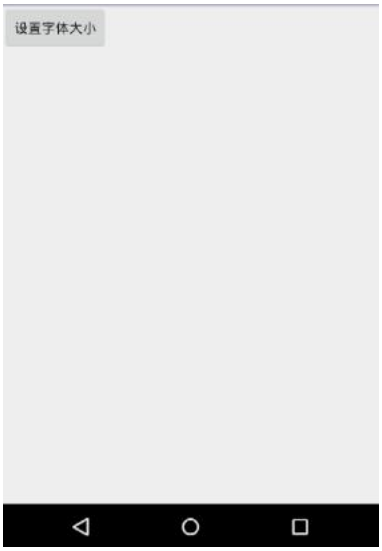

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