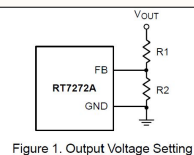
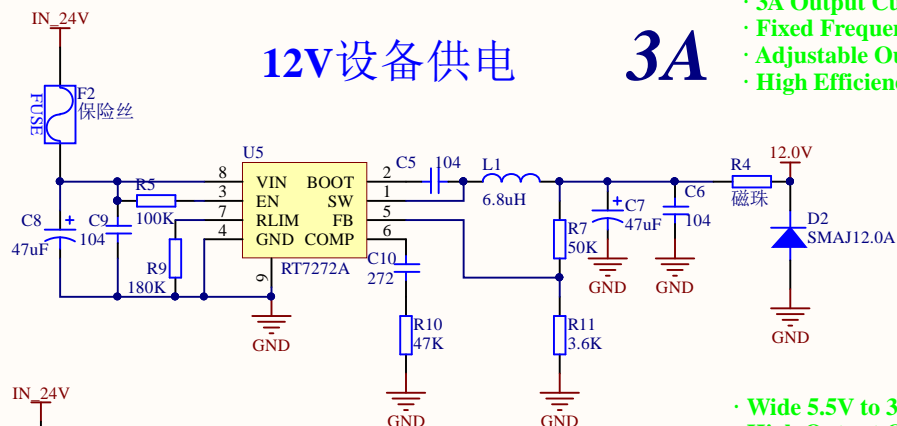


## 12V设备供电

3A

- 4.5V to 36V Input Voltage Range
- 3A Output Current
- Fixed Frequency Operation : 500kHz
- Adjustable Output Voltage from 0.8V to 30V
- High Efficiency Up to 95%



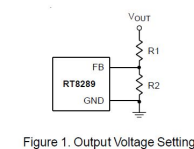
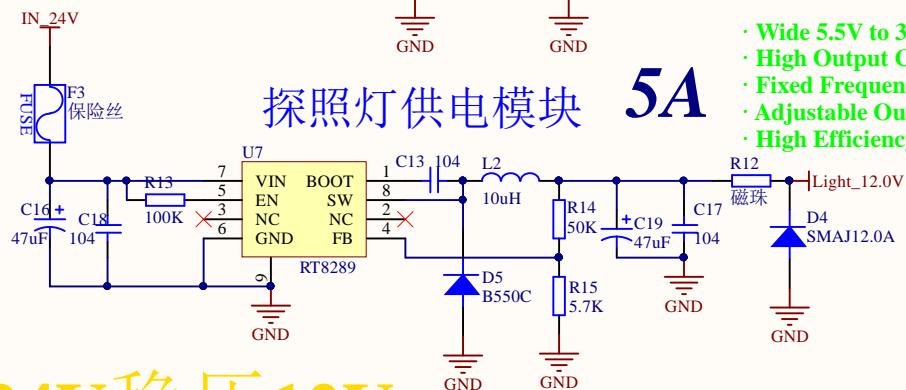
The output voltage is set by an external resistive voltage divider according to the following equation :  

$$V_{OUT} = V_{REF} \left( 1 + \frac{R_1}{R_2} \right)$$
 Where  $V_{REF}$  is the reference voltage (0.8V typ.).

## 探照灯供电模块

5A

- Wide 5.5V to 32V Operating Input Range
- High Output Current up to 5A
- Fixed Frequency Operation : 500kHz
- Adjustable Output Voltage from 1.222V to 26V
- High Efficiency up to 90%



The output voltage is set by an external resistive divider according to the following equation :  

$$V_{OUT} = V_{REF} \left( 1 + \frac{R_1}{R_2} \right)$$
 Where  $V_{REF}$  is the feedback reference voltage (1.222V typ.).

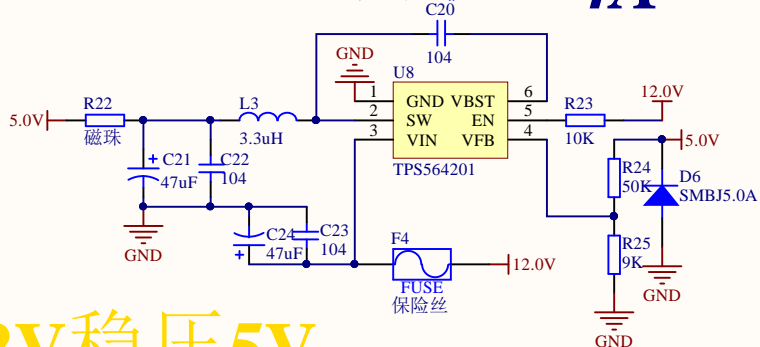
## 24V稳压12V

## 5V设备供电

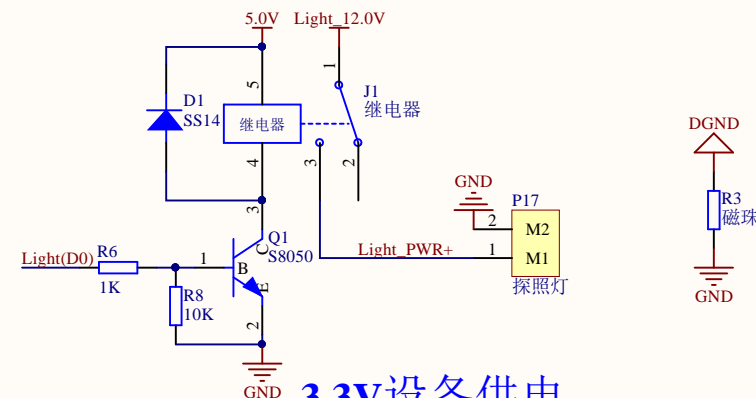
4A

- Input Voltage Range: 4.5 V to 17 V
- 4-A Synchronous Step-down Converter
- Fixed Frequency Operation : 560kHz

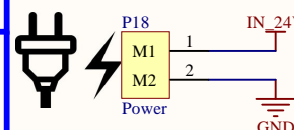
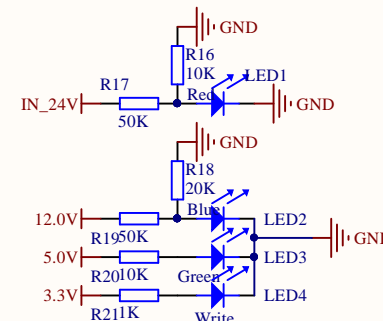
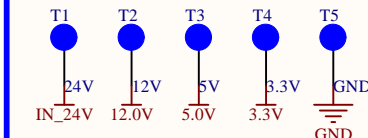
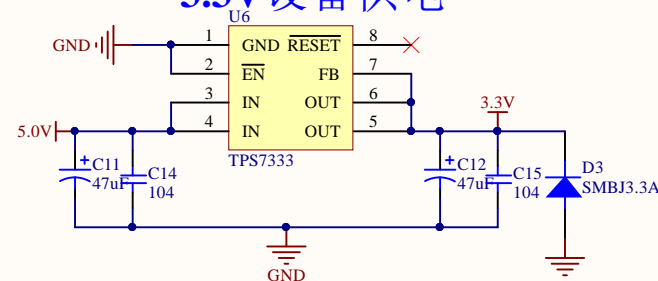
$$V_{OUT} = 0.760 \times \left( 1 + \frac{R_1}{R_2} \right)$$



## 12V稳压5V



## 3.3V设备供电



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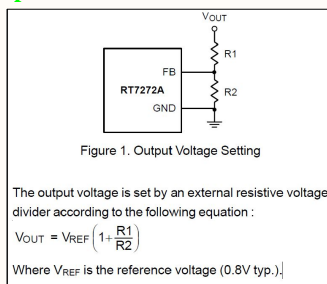
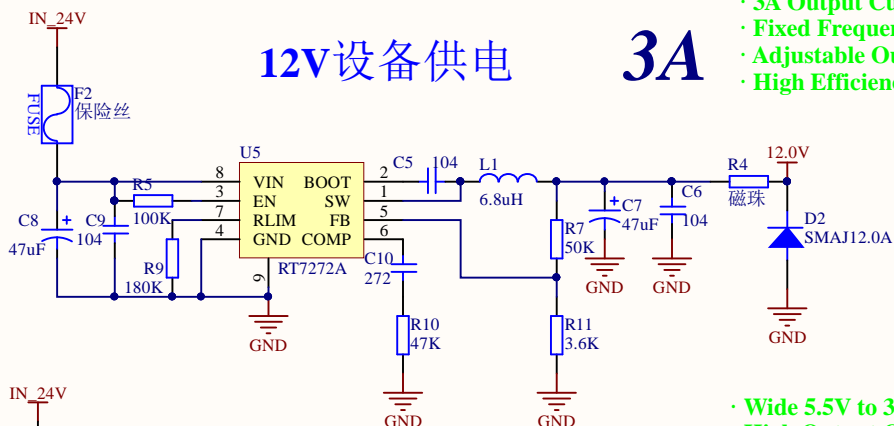
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日 期	*	版 本	*
图 号	*	审 核	*
制 图	*		

- 绿色字体为技术参数
- 橙色字体为功能说明
- 蓝色字体为模块名称

## 12V设备供电

3A

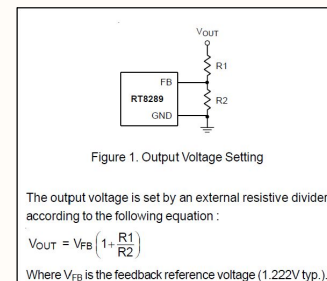
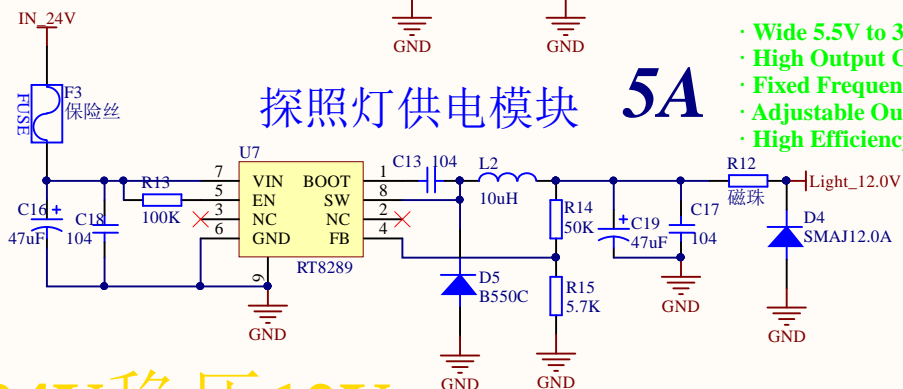
- 4.5V to 36V Input Voltage Range
- 3A Output Current
- Fixed Frequency Operation : 500kHz
- Adjustable Output Voltage from 0.8V to 30V
- High Efficiency Up to 95%



## 探照灯供电模块

5A

- Wide 5.5V to 32V Operating Input Range
- High Output Current up to 5A
- Fixed Frequency Operation : 500kHz
- Adjustable Output Voltage from 1.222V to 26V
- High Efficiency up to 90%



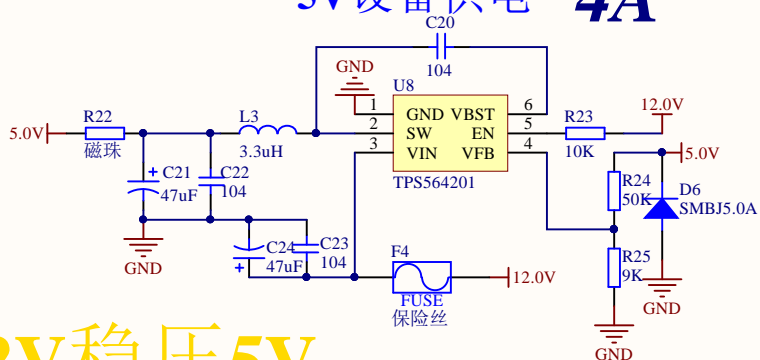
## 24V稳压12V

## 5V设备供电

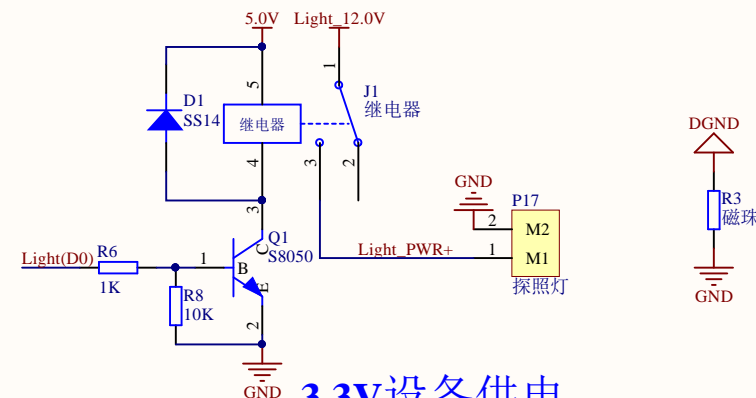
4A

- Input Voltage Range: 4.5 V to 17 V
- 4-A Synchronous Step-down Converter
- Fixed Frequency Operation : 560kHz

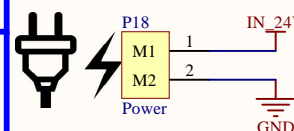
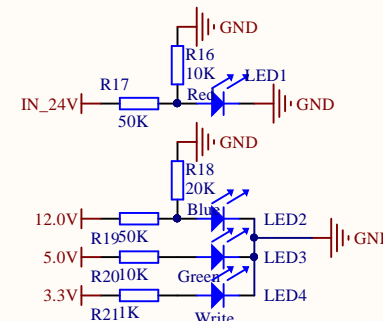
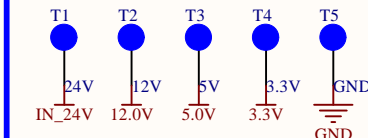
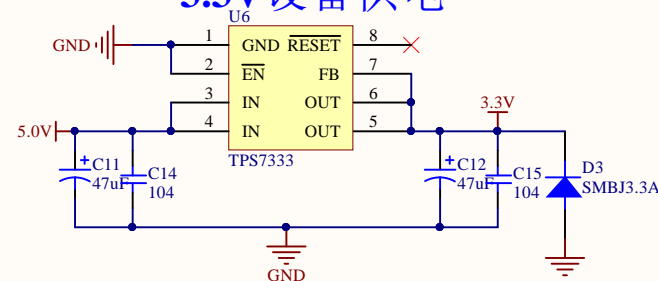
$$V_{OUT} = 0.760 \times \left(1 + \frac{R1}{R2}\right)$$



## 12V稳压5V



## 3.3V设备供电

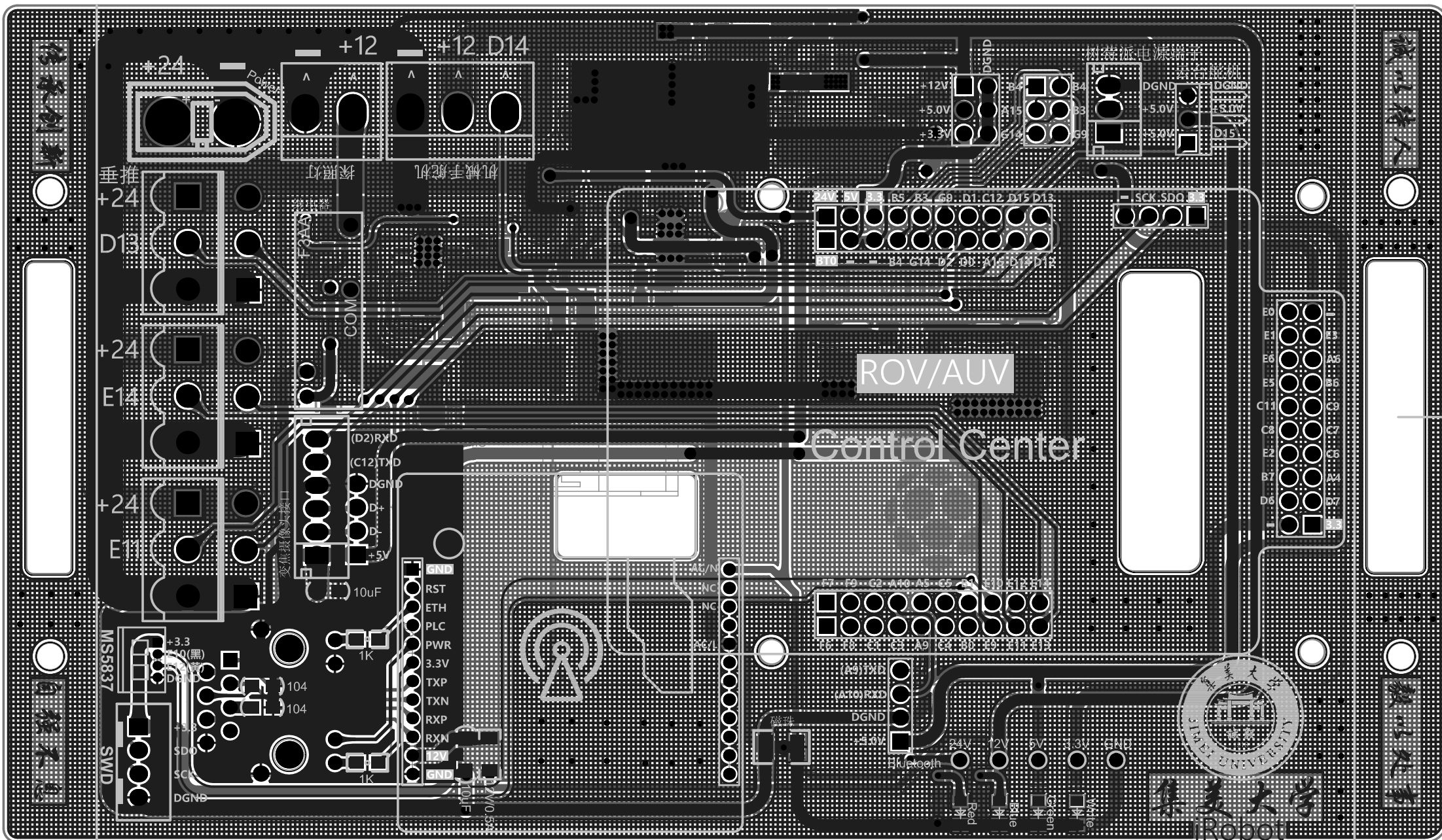


## 集大电协

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日 期	*	版 本	*
图 号	*	审 核	*
制 图	*		

- 绿色字体为技术参数
- 橙色字体为功能说明
- 蓝色字体为模块名称



Comment	Description	Designator	Footprint	LibRef	Quantity
104	无极贴片电容	C5, C5, C6, C6, C9, C9, C13, C13, C14, C14, C15, C15, C17, C17, C18, C18, C20, C20, C22, C22, C23, C23	0805C	Cap1	22
47uF	极性贴片电容	C7, C7, C8, C8, C11, C11, C12, C12, C16, C16, C19, C19, C21, C21, C24, C24	TAJ-B	Pol Cap	16
272	无极贴片电容	C10	0805C	Cap1	2
SS14	二极管	D1	SMA/DO-214AC	Diode	2
SMAJ12.0A	二极管	D2, D2, D4, D4	SMBJ	Diode	4
SMBJ3.3A	二极管	D3	SMBJ	Diode	2
B550C	二极管	D5	SMBJ	Diode	2
SMBJ5.0A	二极管	D6	SMBJ	Diode	2
保险丝	保险丝	F2, F2, F3, F3, F4, F4	1812	Fuse	6
继电器	继电器	J1	继电器(小型)	继电器	2
6.8uH	电感	L1	电感	L	2
10uH	电感	L2	电感	L	2
3.3uH	电感	L3	电感	L	2
Red	发光二极管	LED1	0805LED(GREEN)	LED	2
Blue	发光二极管	LED2	0805LED(RED)	LED	2
Green	发光二极管	LED3	0805LED(RED)	LED	2
Write	发光二极管	LED4	0805LED(RED)	LED	2
探照灯	2PIN	P17	KF128-2P	接线端子-2PIN	2
Power	2PIN	P18	XT60-F	接线端子-2PIN	2
S8050	NPN三极管	Q1	SOT-23	NPN	2
磁珠	电阻	R3, R3, R4, R4, R12, R12, R22, R22	1210R	Res	8
100K	电阻	R5, R5, R13, R13	0805R	Res	4
1K	电阻	R6, R6, R21, R21	0805R	Res	4
50K	电阻	R7, R7, R14, R14, R17, R17, R19, R19, R24, R24	0805R	Res	10
10K	电阻	R8, R8, R16, R16, R20, R20, R23, R23	0805R	Res	8
180K	电阻	R9	0805R	Res	2
47K	电阻	R10	0805R	Res	2
3.6K	电阻	R11	0805R	Res	2
5.7K	电阻	R15	0805R	Res	2
20K	电阻	R18	0805R	Res	2
9K	电阻	R25	0805R	Res	2
24V	测试点	T1	测试点(实心)	测试点	2
12V	测试点	T2	测试点(实心)	测试点	2
5V	测试点	T3	测试点(实心)	测试点	2
3.3V	测试点	T4	测试点(实心)	测试点	2
GND	测试点	T5	测试点(实心)	测试点	2
RT7272A		U5	SOP8-Pad	RT7272A	2
TPS7333	3.3V电源芯片	U6	SOP-8	TPS7333	2
RT8289		U7	SOP8-Pad	RT8289	2
TPS564201		U8	SOT23-6	TPS564201	2