
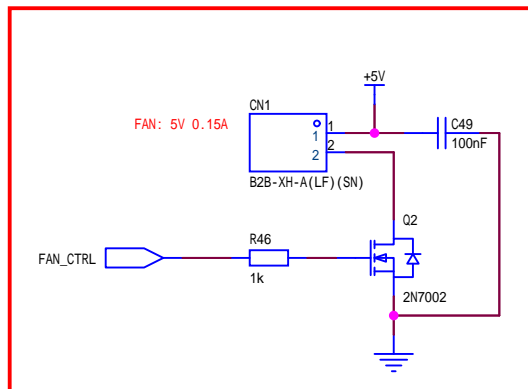
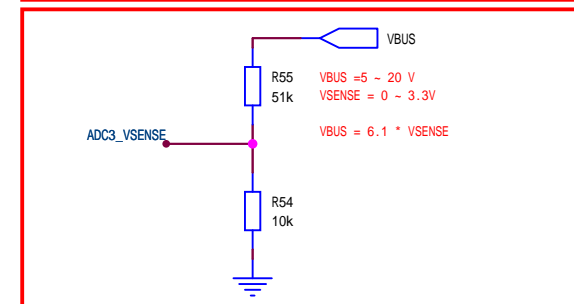
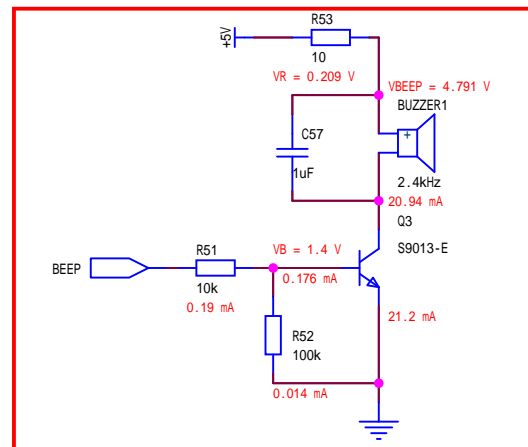
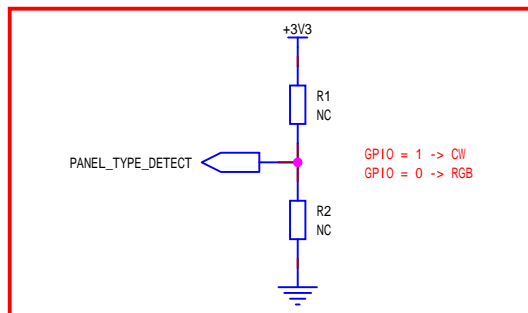
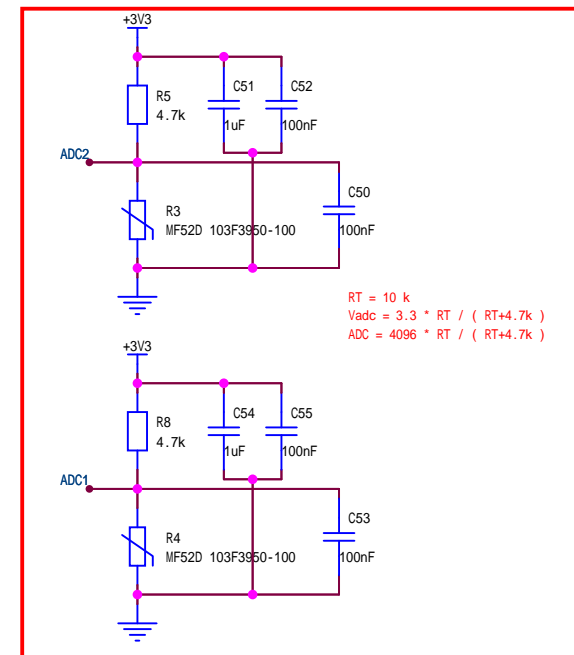
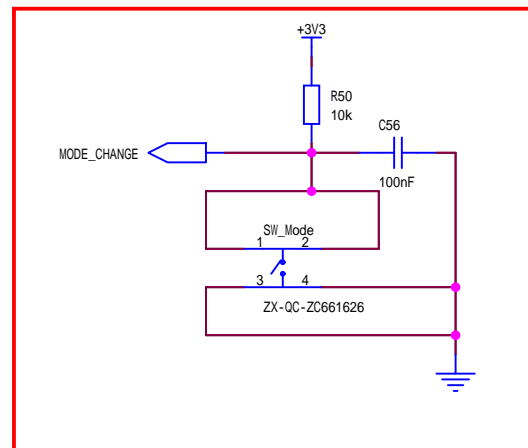
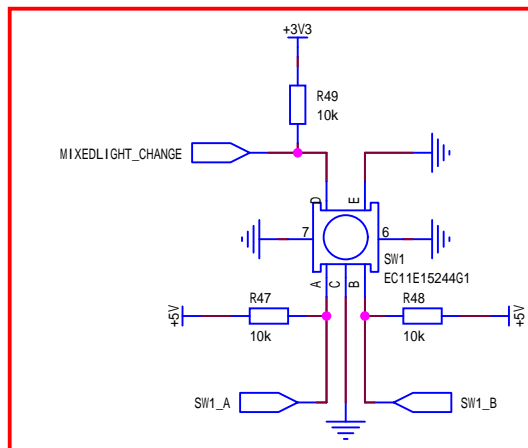


- | | | |
|------------|-------------------|------------------------------|
| ENCODER1_A | SW1_A | ENCODER1_A&B |
| GPIO1 | MIXEDLIGHT_CHANGE | - Adjust output |
| ENCODER1_B | SW1_B | GPIO1 |
| | | - Change adjustment target: |
| | | Brightness/Color temperature |
-
- | | | |
|-------|-------------|-----------------------|
| GPIO4 | MODE_CHANGE | GPIO4 |
| GPIO5 | BEEP | - Change working mode |
| GPIO6 | | GPIO5 |
| | | - BEEP |
-
- | | | |
|-------|----------|----------------------|
| GPIO7 | FAN_CTRL | GPIO7 |
| | | - Control fan status |
-
- | | | |
|-------|-------------------|-------------------------------|
| GPIO8 | PANEL_TYPE_DETECT | GPIO8 |
| | | - Detec panel type: CW or RGB |

 <h2>Cuculus Band</h2>		Light Box	
Schematic	Main Board	Board	Light Box Main Board
Drawing No.	Y25-PJ03-B01	Create Date	2025-07-25
Designed by	Cuculus Band	Update Date	2025-09-27
Reviewed by	Cuculus Band	Size	Version
Page	1 of 4	A4	1.00.00



Cuculus Band

Light Box

Schematic	Main Board	Board	Light Box Main Board
Drawing No.	Y25-PJ03-B01	Create Date	2025-07-25
Designed by	Cuculus Band	Update Date	2025-09-27
Reviewed by	Cuculus Band	Size	Version
Page	3 of 4	A4	1.00.00

5V Input K = 35%	$L = (5/15)^2 * (15-5) / (1.2e6 * 0.189 * 35\%)$ $= 0.111 * 10 / 79380$ $= 13.983 \mu H$
5V Input K = 50%	$L = (5/15)^2 * (15-5) / (1.2e6 * 0.189 * 50\%)$ $= 0.111 * 10 / 113400$ $= 9.788 \mu H$

```
9V Input      Ipeak = ( 15/9 ) * 0.189 + ( 9/15 )^2 * ( 15-9 ) / ( 2 * 1.2e6 * 10e-6 )
L = 10 uH      = 1.667 * 0.189 + 0.6^2 * 6 / 24
               = 0.3151 + 0.09
               = 0.405 A
```

