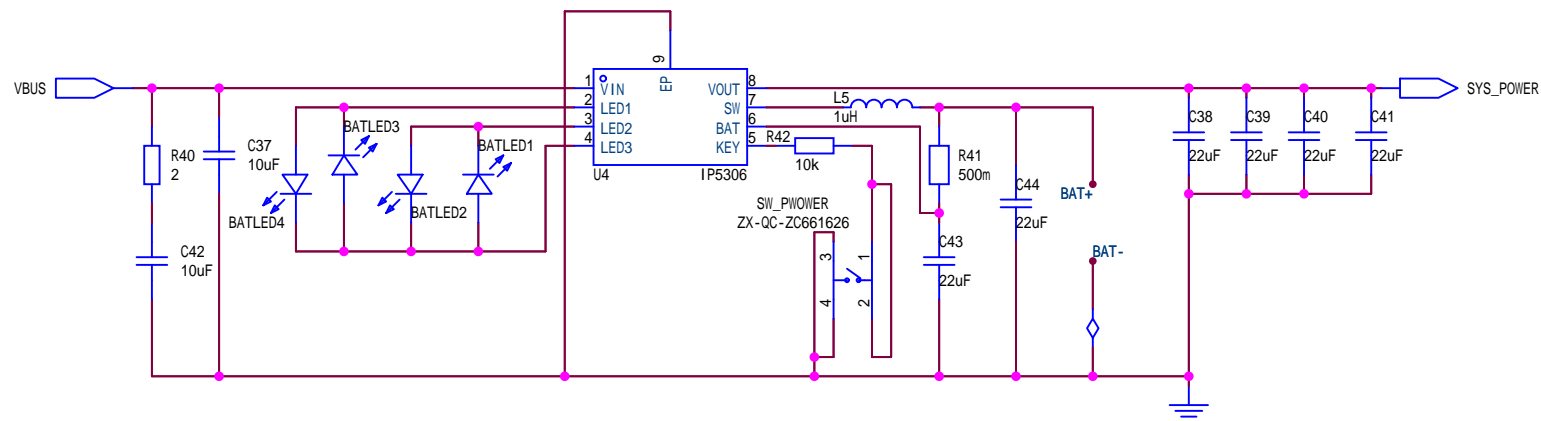
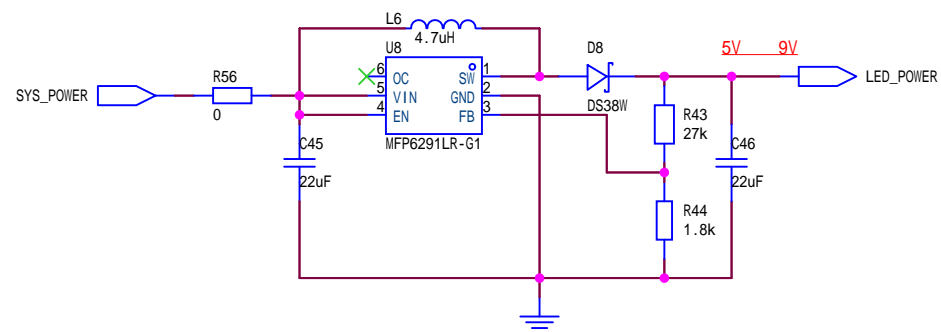
 <h2>Cuculus Band</h2>		Light Box	
Schematic	Main Board	Board	Light Box Main Board
Drawing No.	Y25-PJ03-B01	Create Date	2025-07-25
Designed by	Cuculus Band	Update Date	2025-08-12
Reviewed by	Cuculus Band	Size	Version
Page	1 of 4	A4	1.00.00



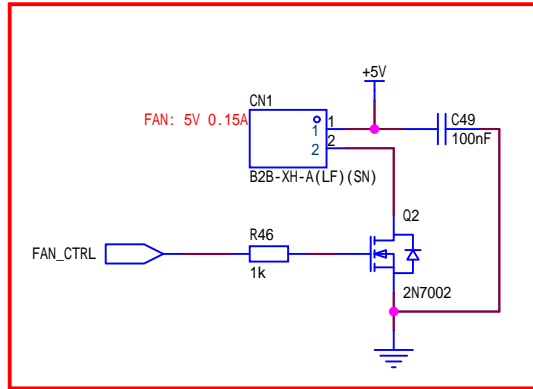
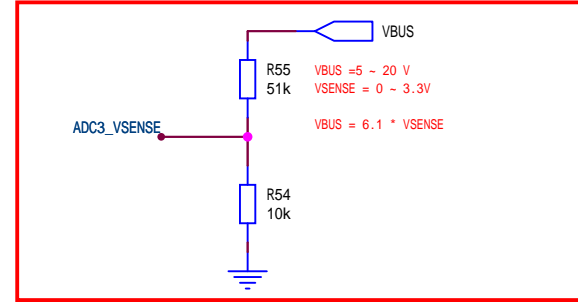
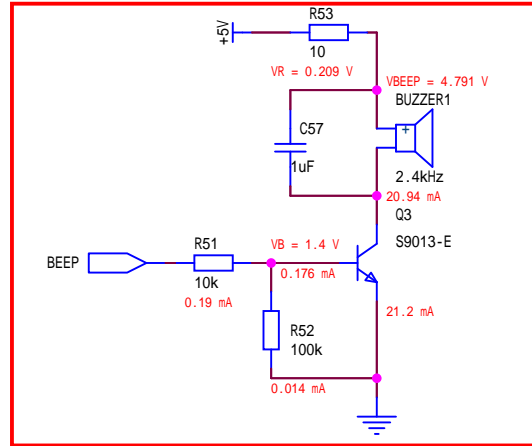
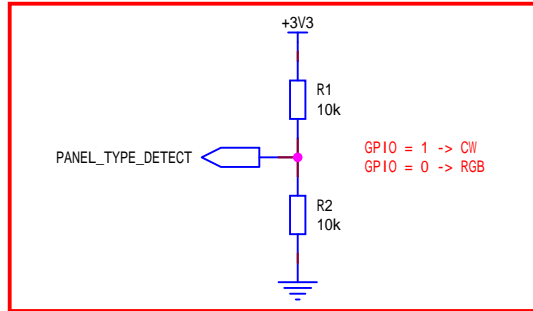
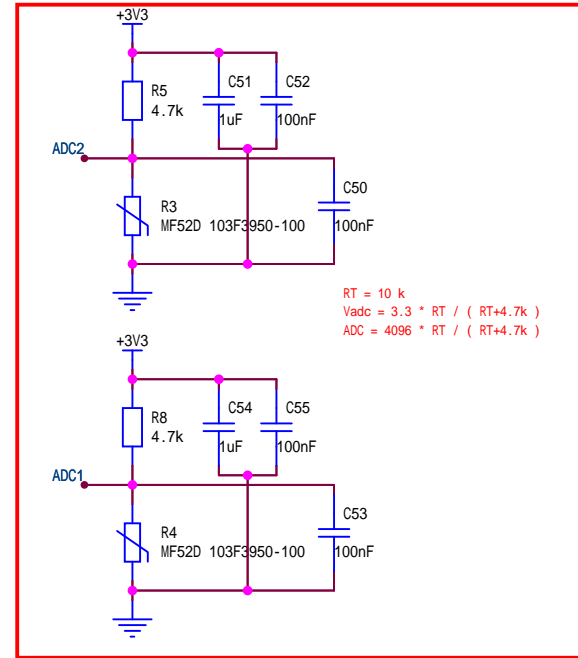
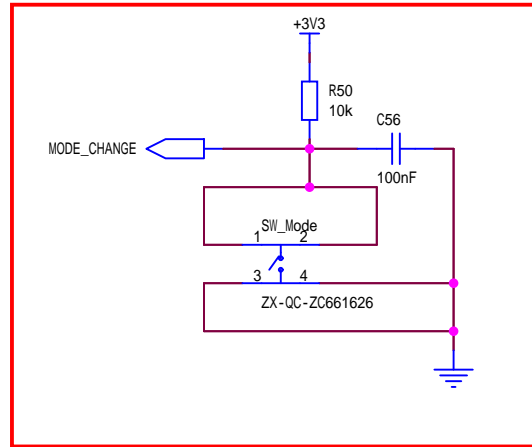
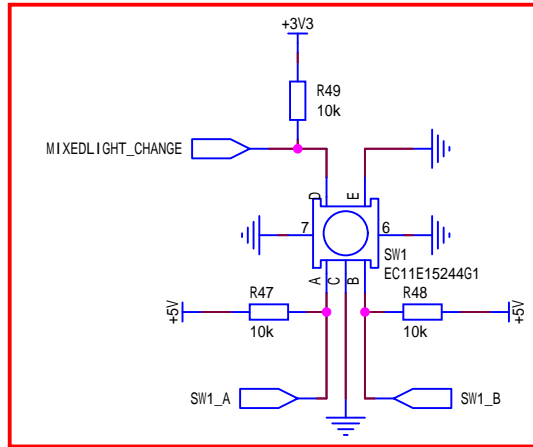
SYS_POWER → +5V



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	2025-08-15
Reviewed by	Cuculus Band	Size	Version
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Cuculus Band

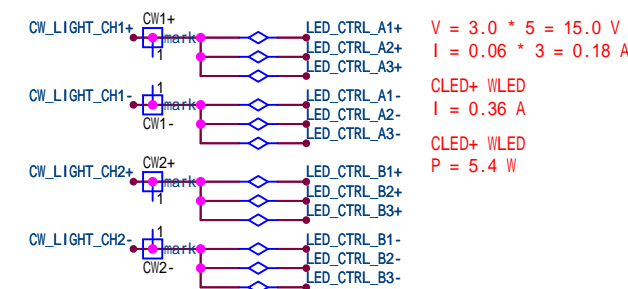
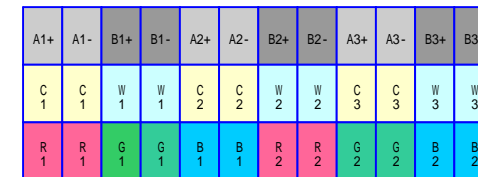
Light Box

Schematic	Main Board	Board	Light Box Main Board
Drawing No.	Y25-PJ03-B01	Create Date	2025-07-25
Designed by	Cuculus Band	Update Date	2025-08-10
Reviewed by	Cuculus Band	Size	Version
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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
L = 10 uH

$$I_{\text{peak}} = (15/9) * 0.189 + (9/15)^2 * (15-9) / (2 * 1.2e6 * 10e-6)$$
$$= 1.667 * 0.189 + 0.6^2 * 6 / 24$$
$$= 0.3151 + 0.09$$
$$= 0.405 \text{ A}$$



1.00.00