

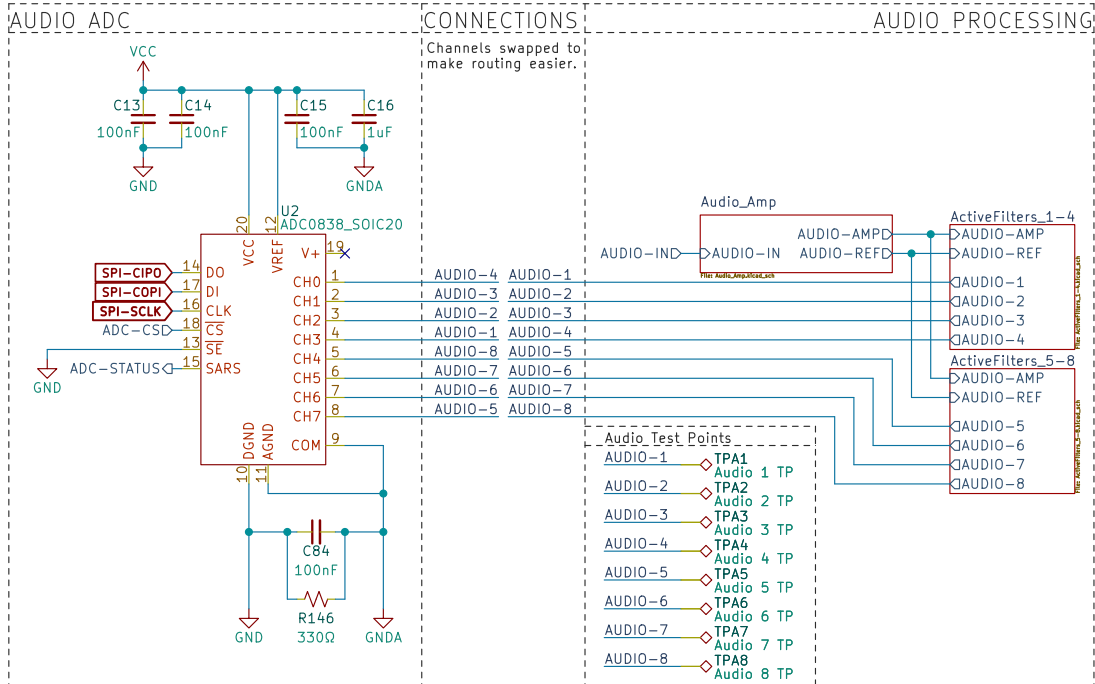
**Daxxn Industries**

Sheet: /Audio Inputs/  
File: Audio-Inputs.kicad\_sch

**Title: LightDrum**

Size: A4 Date:  
KiCad E.D.A. kicad (6.0.9)

**Rev: REV7**  
Id: 2/17



**Daxxn Industries**

Sheet: /ADC Sheet/

File: ADC\_Sheet.kicad\_sch

**Title: LightDrum**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.9)

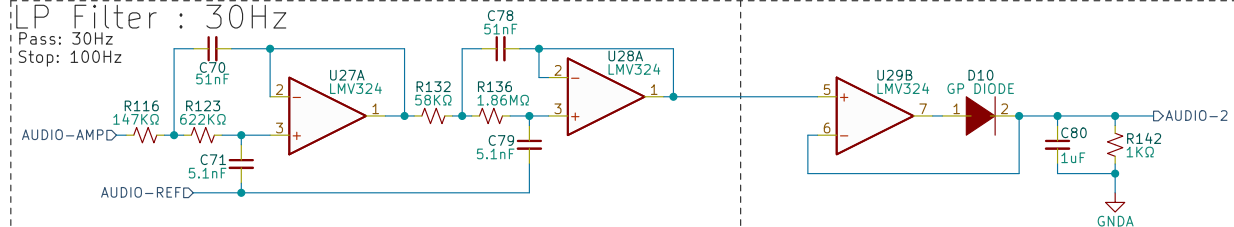
**Rev: REV7**

Id: 3/17

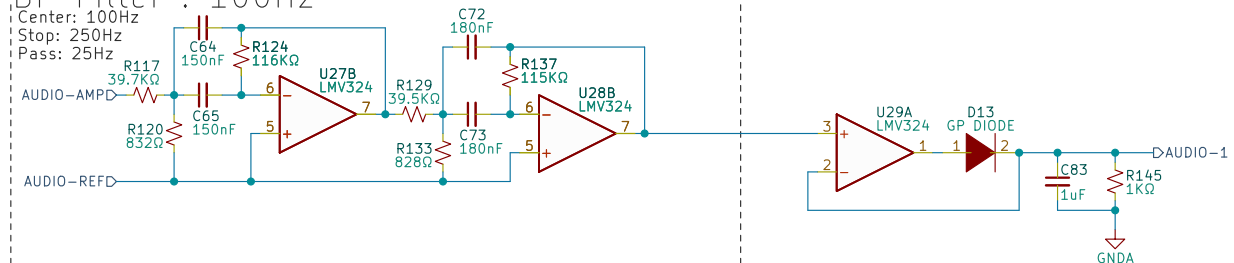




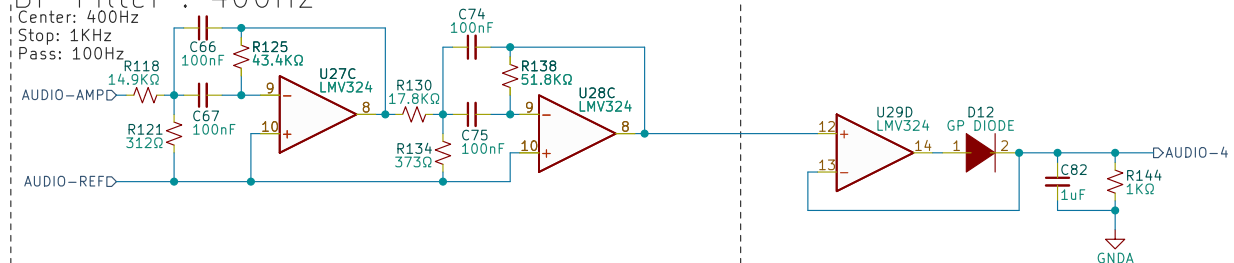
Pass: 30Hz  
Stop: 100Hz



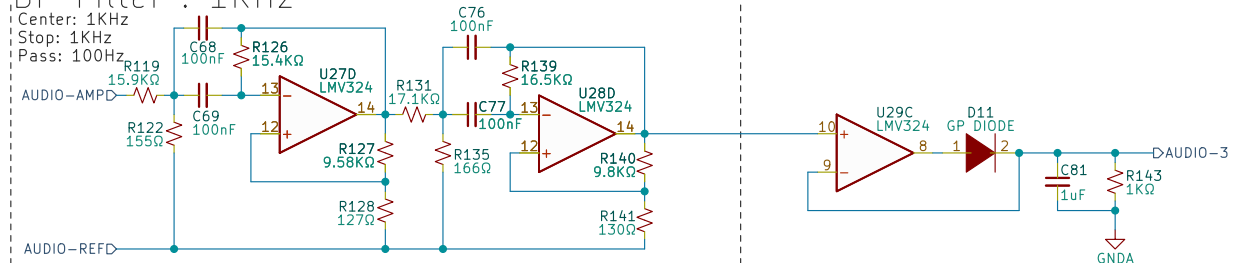
Center: 100Hz  
Stop: 250Hz  
Pass: 25Hz



```
Center: 400Hz
Stop: 1KHz
Pass: 100Hz
```



```
| Center: 1KHz
| Stop: 1KHz
| Pass: 100Hz
```



**Daxxn Industries**

Sheet: /ADC Sheet/ActiveFilters\_1-4/

File: ActiveFilters\_1-4.kicad\_sch

**Title:** *LightDrum*

Size: A4

Date:

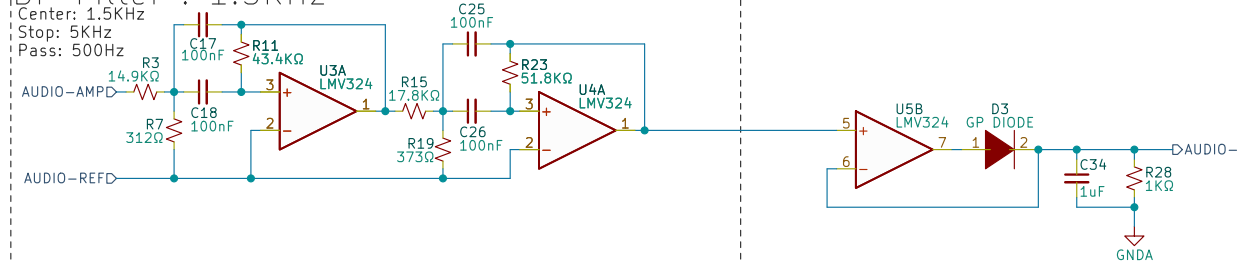
Size: A1	Date:
KiCad E.D.A.	kicad (6.0.9)

Rev: REV7

Id: 5/17

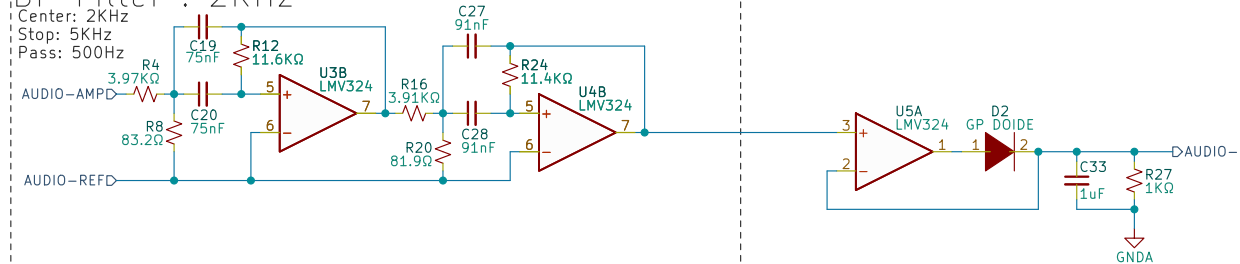
### BP Filter : 1.5KHz

Center: 1.5KHz  
Stop: 5KHz  
Pass: 500Hz



### BP Filter : 2KHz

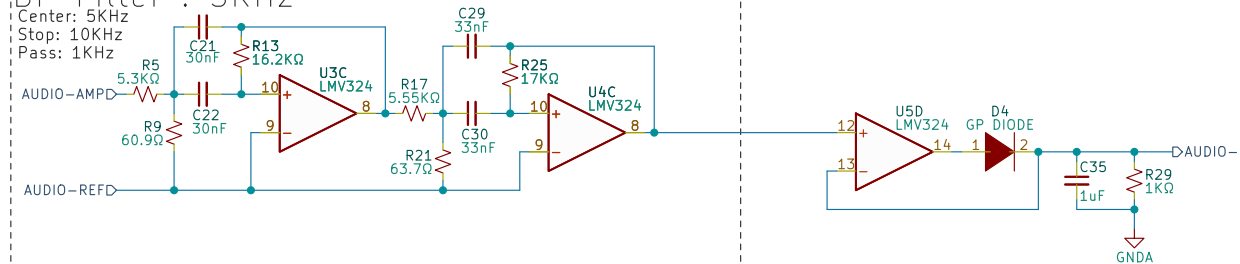
Center: 2KHz  
Stop: 5KHz  
Pass: 500Hz



OOPS. Need to fix.

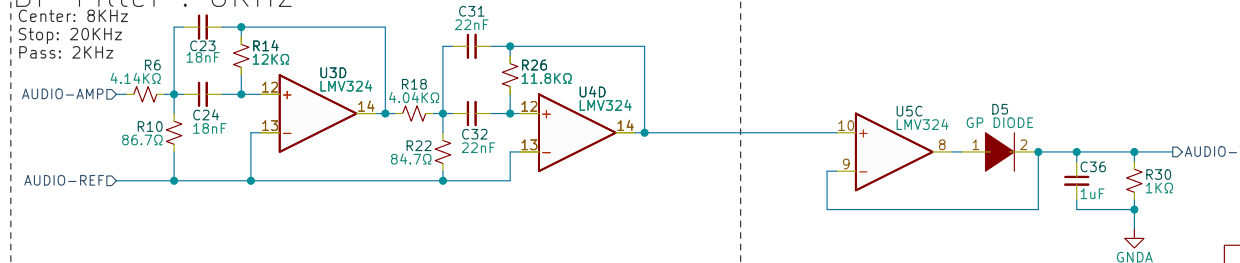
### BP Filter : 5KHz

Center: 5KHz  
Stop: 10KHz  
Pass: 1KHz



### BP Filter : 8KHz

Center: 8KHz  
Stop: 20KHz  
Pass: 2KHz



Daxxn Industries

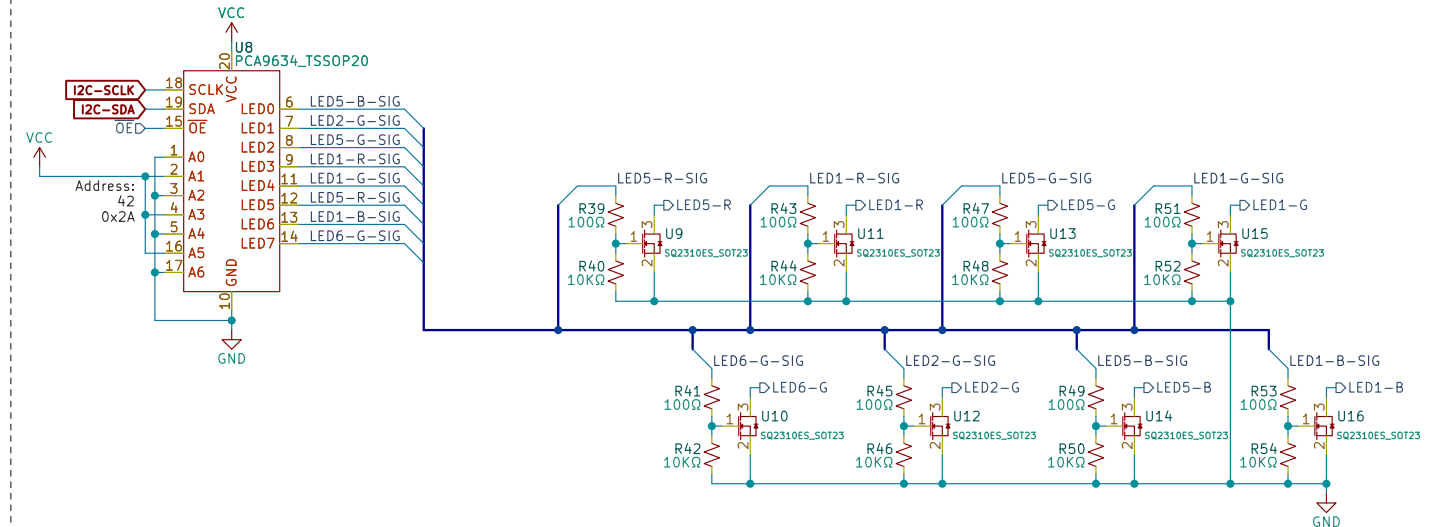
Sheet: /ADC Sheet/ActiveFilters\_5-8/  
File: ActiveFilters\_5-8.kicad\_sch

**Title: LightDrum**

Size: A4  
KiCad E.D.A. kicad (6.0.9)

Date:  
Rev: REV7  
Id: 6/17

# RGB STRIP CONTROLLER A



**Daxxn Industries**

Sheet: /RGB\_Control/RGB Control 1/  
File: RGB\_Control-1.kicad\_sch

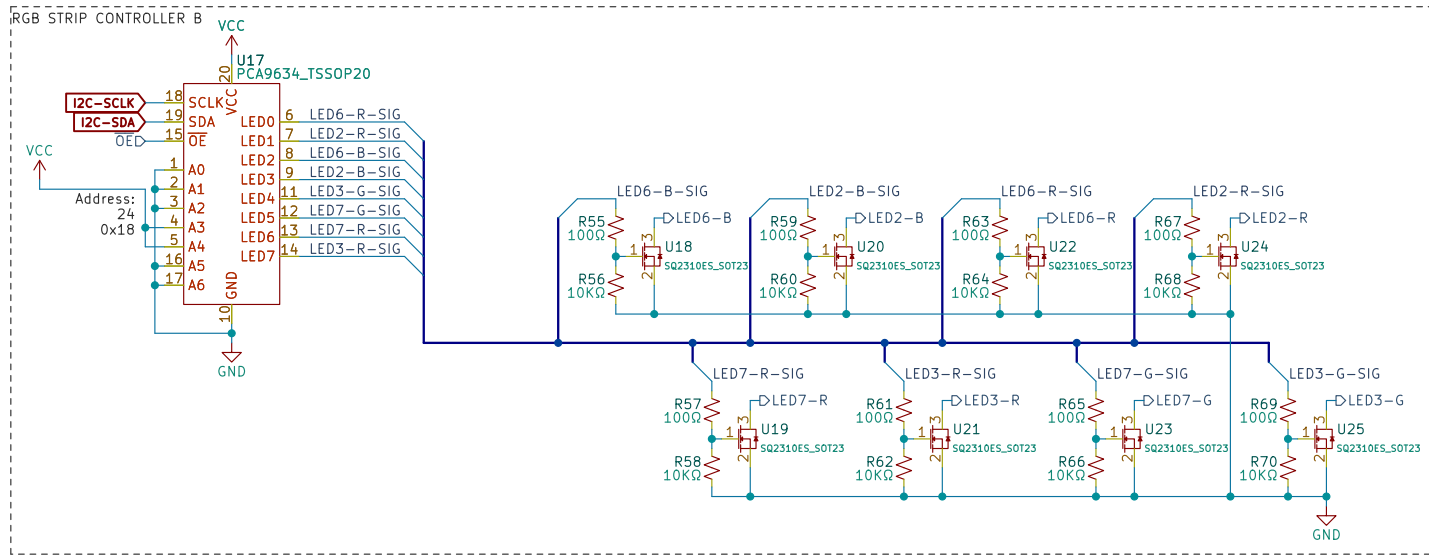
**Title: LightDrum**

Size: A4  
KiCad E.D.A. kicad (6.0.9)

Date:

**Rev: REV7**

Id: 7/17



**Daxxn Industries**

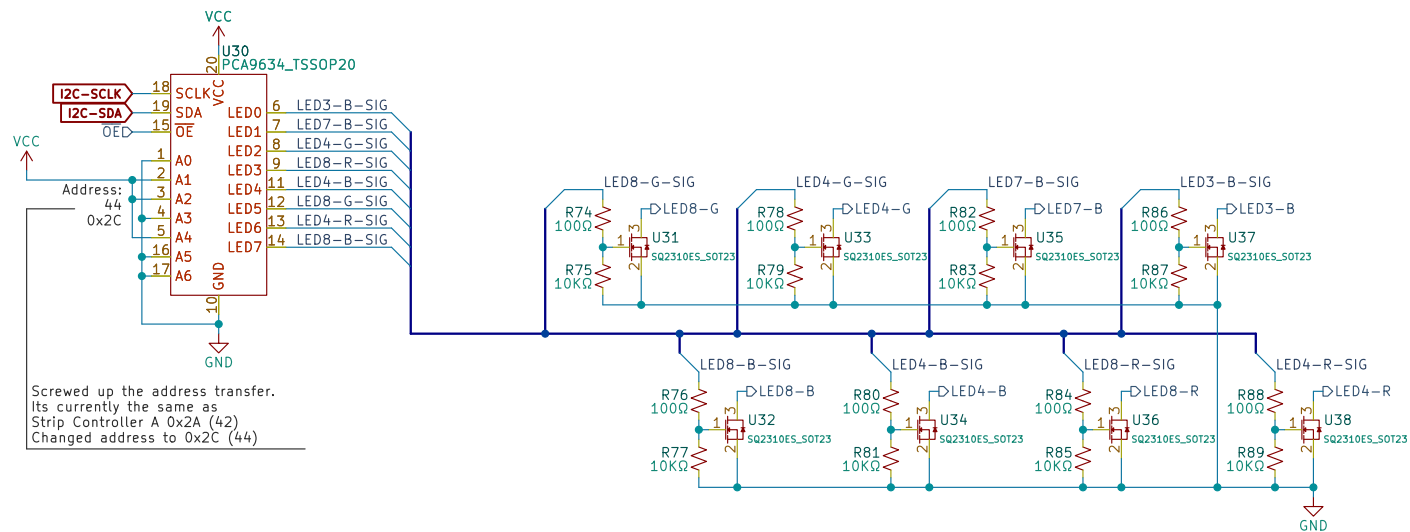
Sheet: /RGB\_Control/RGB Control 2/  
File: RGB\_Control-2.kicad\_sch

**Title: LightDrum**

Size: A4	Date:	Rev: REV7
KiCad E.D.A. kicad (6.0.9)		Id: 8/17



# RGB STRIP CONTROLLER C



Daxxn Industries

Sheet: /RGB\_Control/RGB Control 3/  
File: RGB\_Control-3.kicad\_sch

**Title: LightDrum**

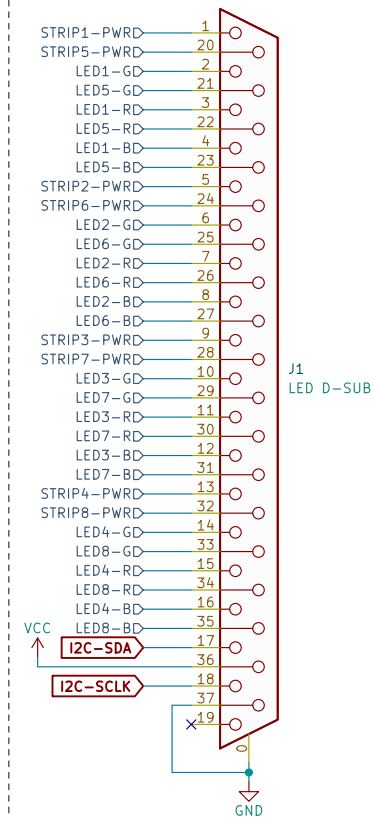
Size: A4  
KiCad E.D.A. kicad (6.0.9)

Date:

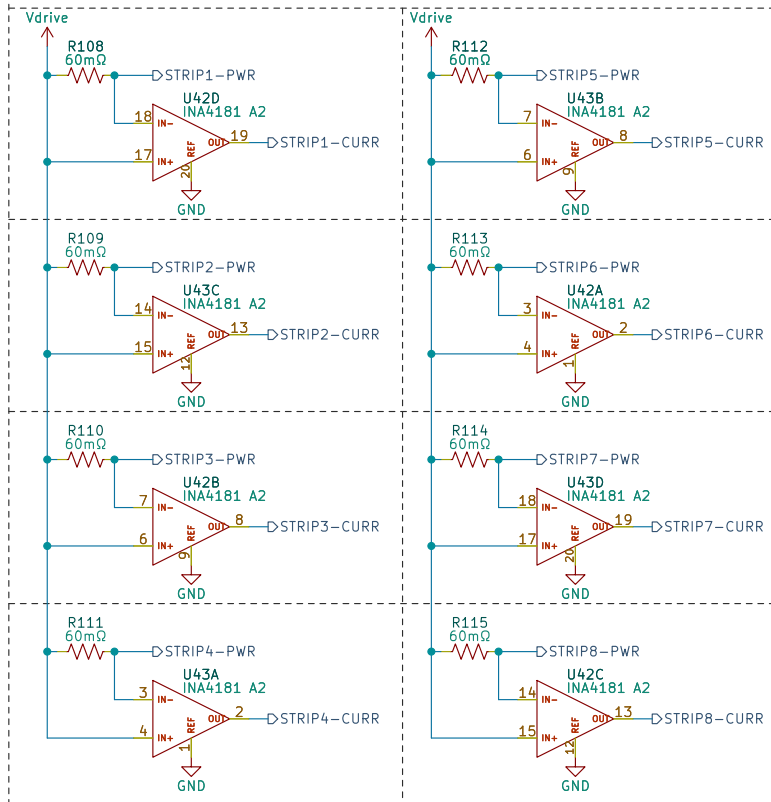
Rev: REV7

Id: 9/17

# RGB STRIP CONNECTOR



# RGB CURRENT MONITORS



**Daxxn Industries**

Sheet: /RGB\_Control/Strip Current Monitors/  
File: Strip\_CM.kicad\_sch

**Title: LightDrum**

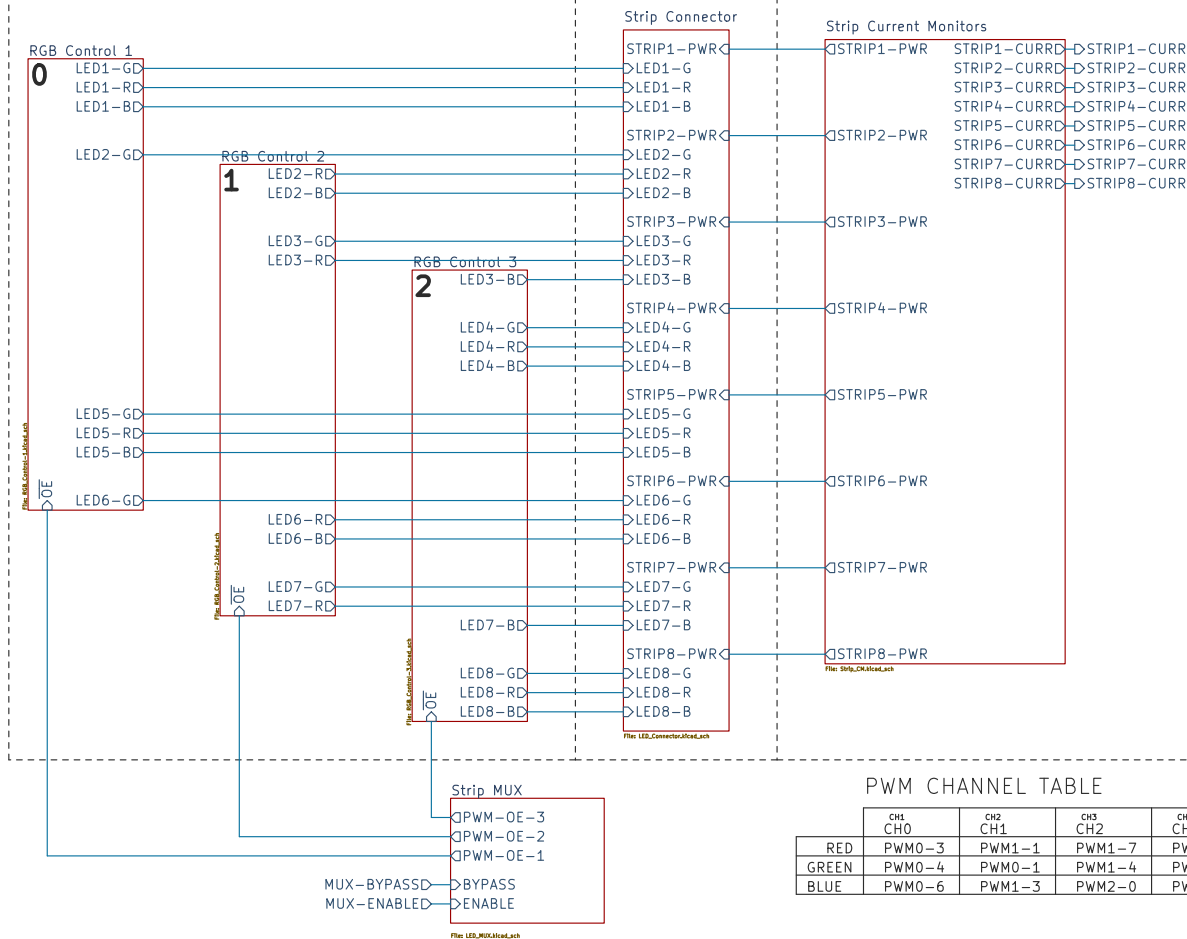
Size: A4 Date:  
KiCad E.D.A. kicad (6.0.9)

**Rev: REV7**  
Id: 11/17

# PCA9634 LED DRIVERS

## CONNECTOR

## CURRENT MONITORS



PWM CHANNEL TABLE

	CH1 CH0	CH2 CH1	CH3 CH2	CH4 CH3	CH5 CH4	CH6 CH5	CH7 CH6	CH8 CH7
RED	PWM0-3	PWM1-1	PWM1-7	PWM2-6	PWM0-5	PWM1-0	PWM1-6	PWM2-3
GREEN	PWM0-4	PWM0-1	PWM1-4	PWM2-2	PWM0-2	PWM0-7	PWM1-5	PWM2-5
BLUE	PWM0-6	PWM1-3	PWM2-0	PWM2-4	PWM0-0	PWM1-2	PWM2-1	PWM2-7

Daxxn Industries

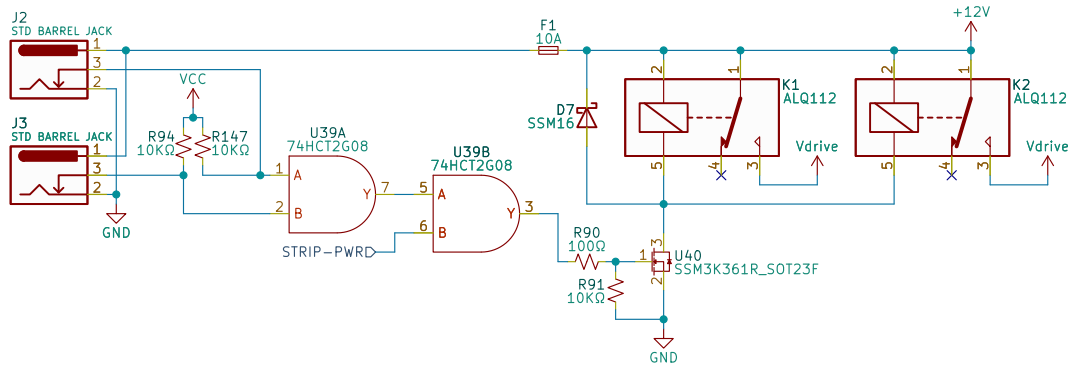
Sheet: /RGB\_Control/  
File: RGB\_Control.kicad\_sch

**Title: LightDrum**

Size: A4  
KiCad E.D.A. kicad (6.0.9)

Date:  
Rev: **REV7**  
Id: 12/17

Due to the large current for the RGB strips, the load needs to be divided up between 2 barrel jacks. If only one is plugged in, it would probably melt. To prevent any melty firey and expensy issues, the RGB strips will not be powered unless both jacks are used AND the controller agrees.

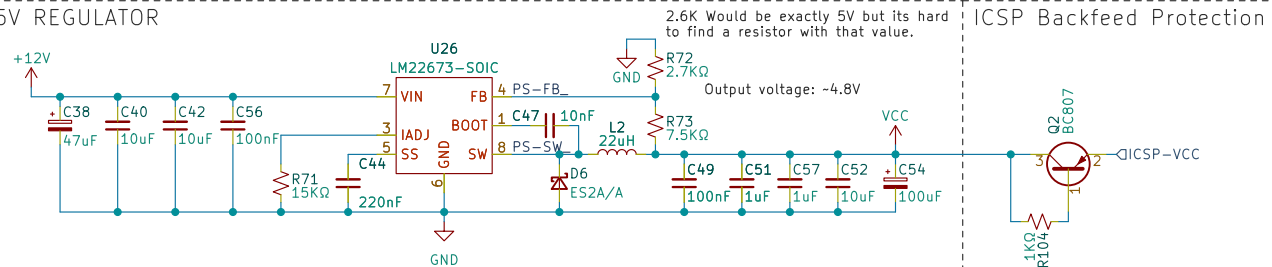


Sheet: /Power/LED\_Power\_Control/  
File: LED\_Power\_Control.kicad\_sch

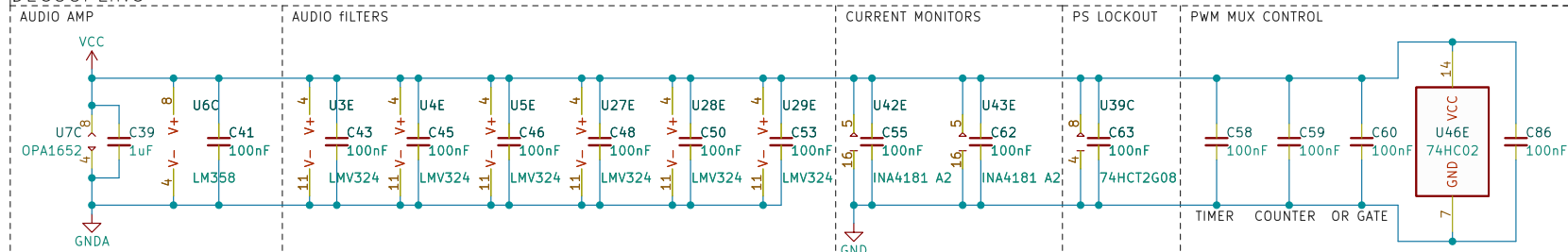
Size: A4	Date:
KiCad E.D.A. kicad (6.0.9)	

Id: 14/17

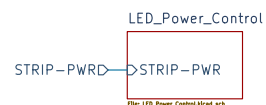
## 5V REGULATOR



## DECOUPLING



## LED STRIP POWER LOCKOUT



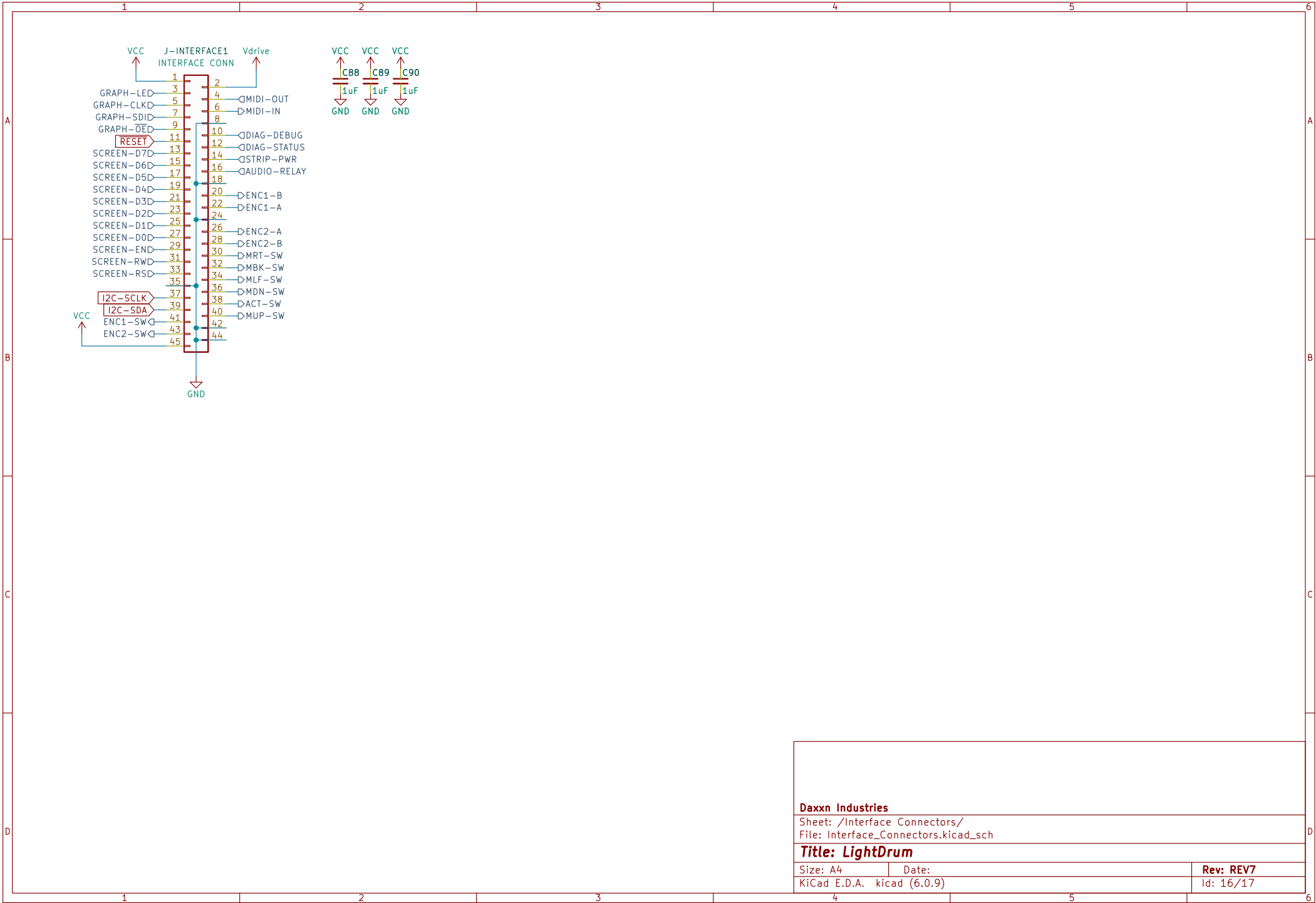
Daxxn Industries

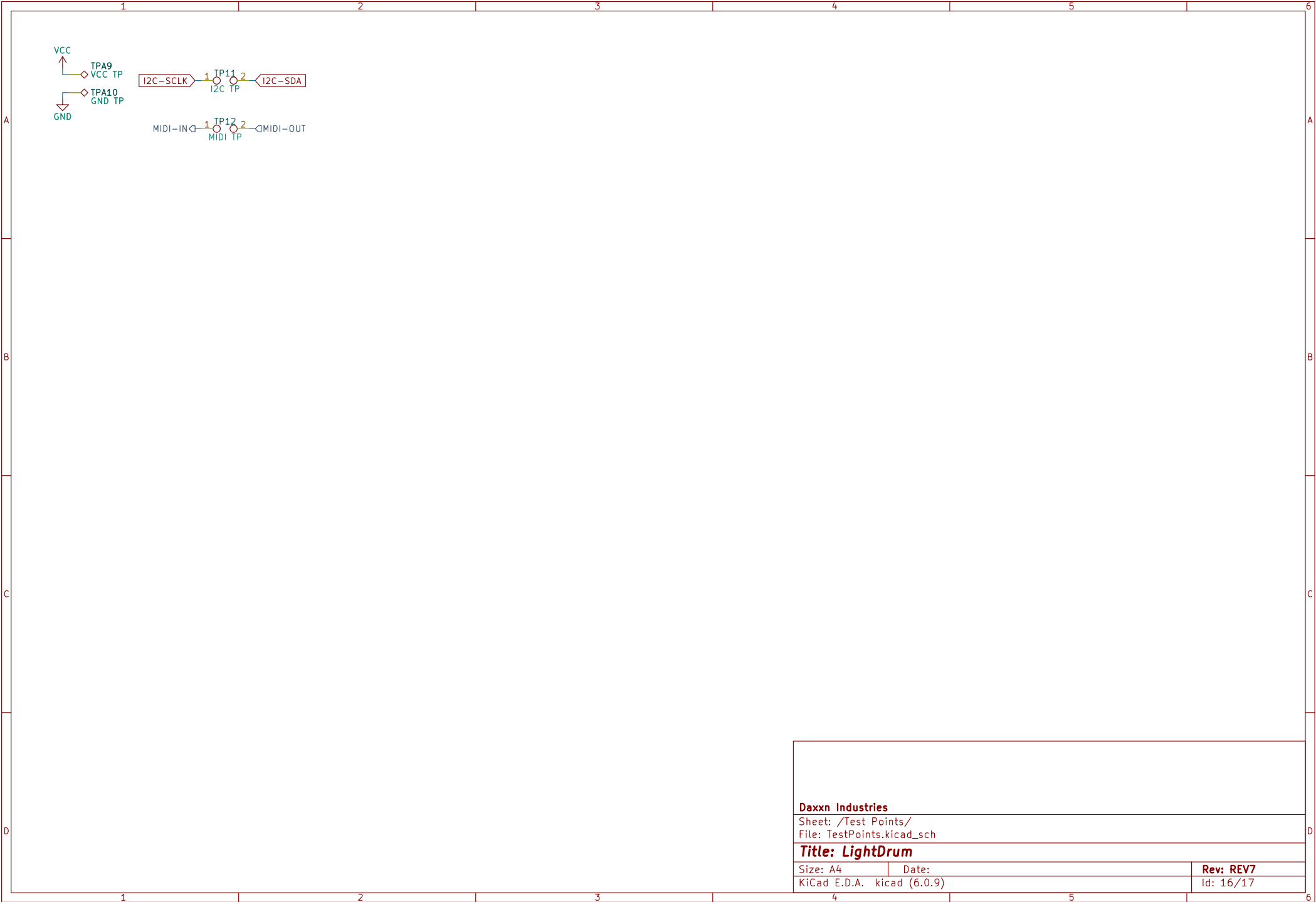
Sheet: /Power/  
File: Power.kicad\_sch

**Title: LightDrum**

Size: A4 Date:  
KiCad E.D.A. kicad (6.0.9)

**Rev: REV7**  
Id: 15/17





**Daxxn Industries**

Sheet: /Test Points/  
File: TestPoints.kicad\_sch

**Title: LightDrum**

Size: A4 Date:  
KiCad E.D.A. kicad (6.0.9)

**Rev: REV7**  
Id: 16/17



