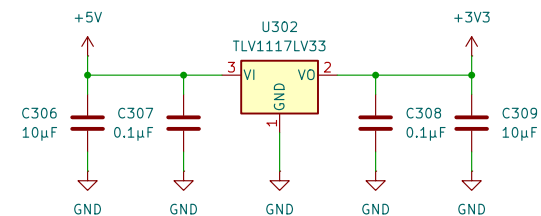
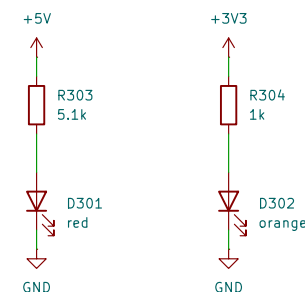


+3V3 Power Supply

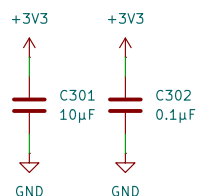
U_{nom} = 3.3 V
I_{max} = 1.0 A
P_{max} = 3.3 W



Can also be replaced with a weaker standard TLV1117, both ICs are pin-compatible



The series resistance must be checked after the LEDs have been determined.



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Author: Nikolai Zoller

Company: ElektroNik Zoller

Sheet: MCU

File: MCU.kicad_sch

Title: Wordclock – Microcontroller Unit & Power Supply

Size: A4

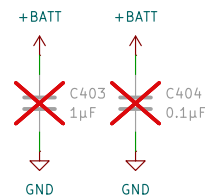
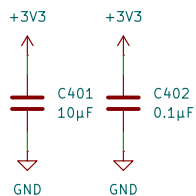
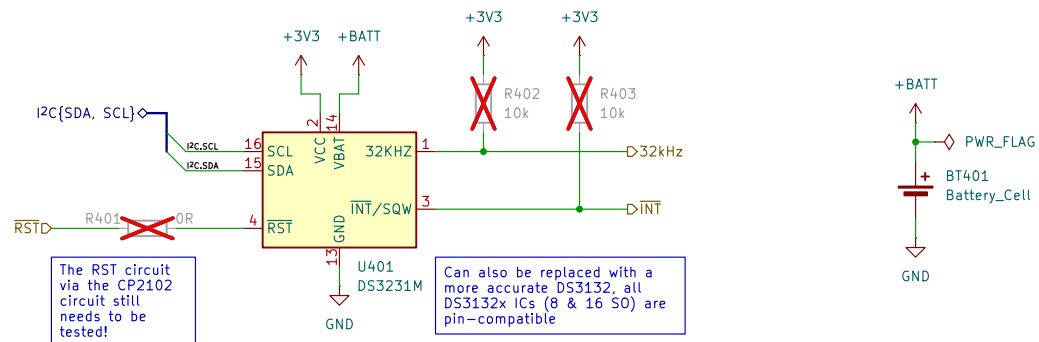
Date: 2024-10-29

Rev: A

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Id: 3/17

Real Time Clock



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Author: Nikolai Zoller
Company: ElektroNik Zoller

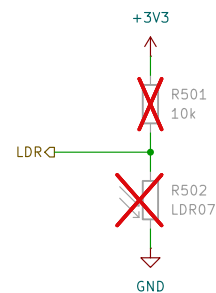
Sheet: RTC
File: RTC.kicad_sch

Title: Wordclock – Real Time Clock

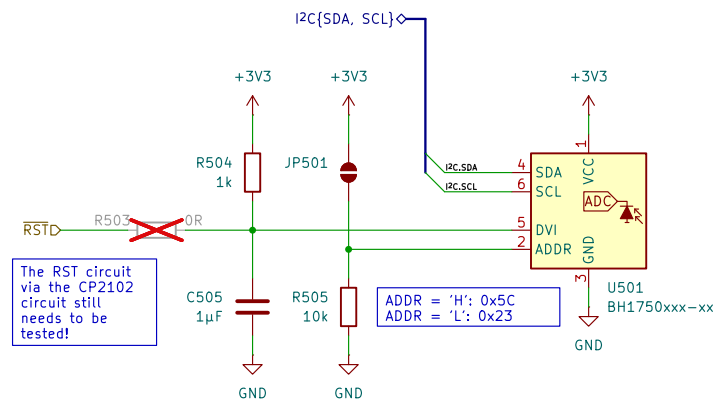
Size: A4
Date: 2024-10-29
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Rev: A
Id: 4/17

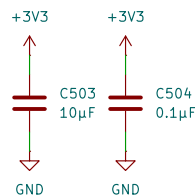
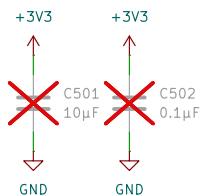
Light Dependent Resistor



Brightness Sensor



Only one brightness sensor can be used, which is why only one should be populated. The LDR has been added for legacy support.



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Author: Nikolai Zoller

Company: ElektroNik Zoller

Sheet: Brightness Sensor

File: BrightnessSensor.kicad_sch

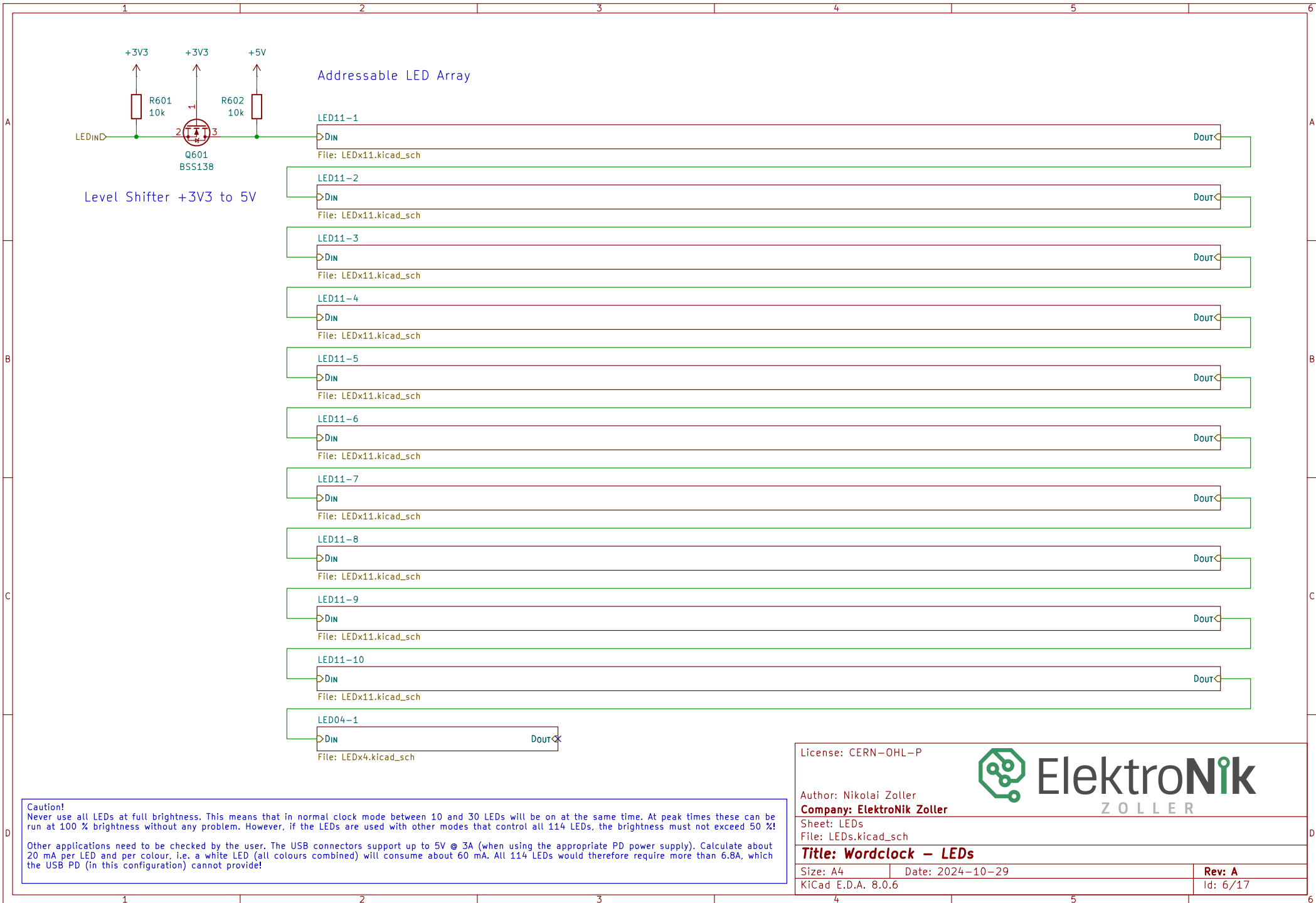
Title: Wordclock – Brightness Sensor

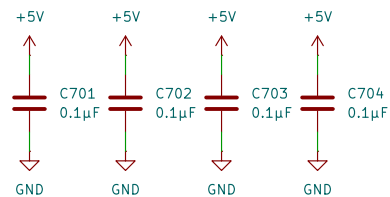
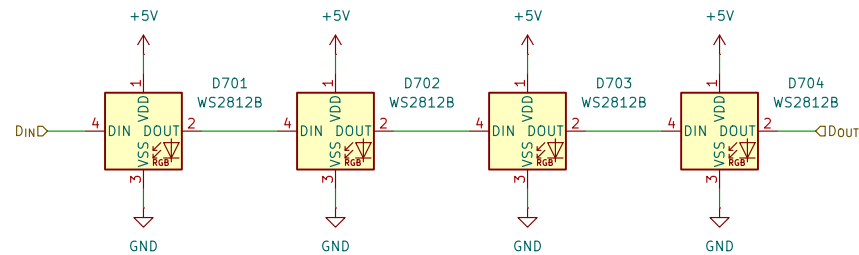
Size: A4 Date: 2024-10-29

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Rev: A

Id: 5/17





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Author: Nikolai Zoller

Company: **ElektroNik Zoller**

Sheet: LED04-1

File: LEDx4.kicad_sch

Title: Wordclock – LED Row with 4 pcs.

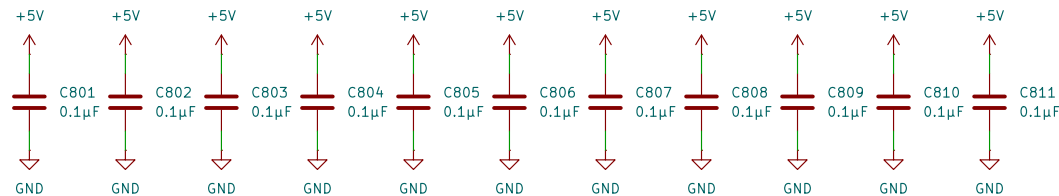
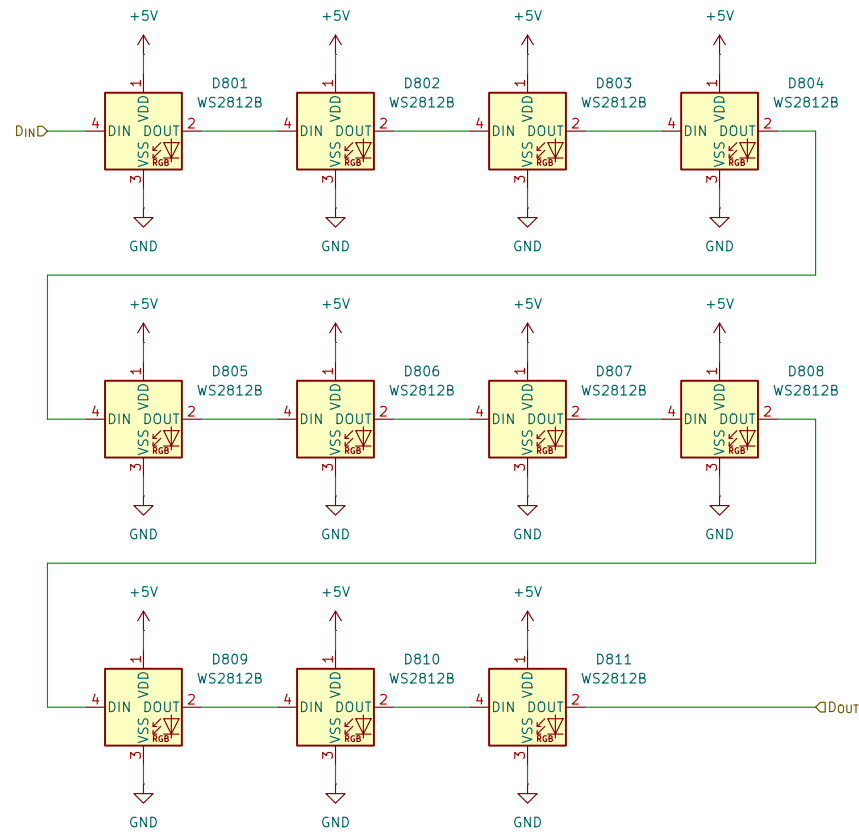
Size: A4

Date: 2024-10-29

Rev: **A**

KiCad E.D.A. 8.0.6

Id: 7/17



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Author: Nikolai Zoller
Company: ElektroNik Zoller

Sheet: LED11-1
File: LEDx11.kicad_sch

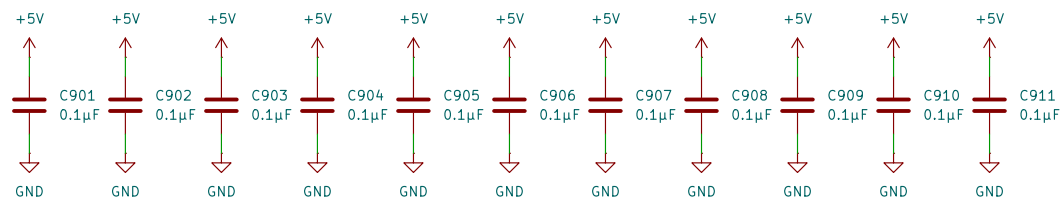
Title: Wordclock – LED Row with 11 pcs.

Size: A4 Date: 2024-10-29

KiCad E.D.A. 8.0.6

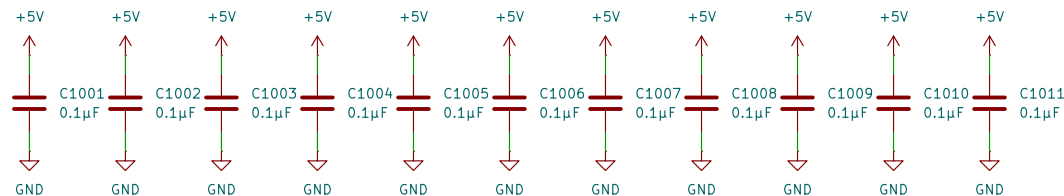
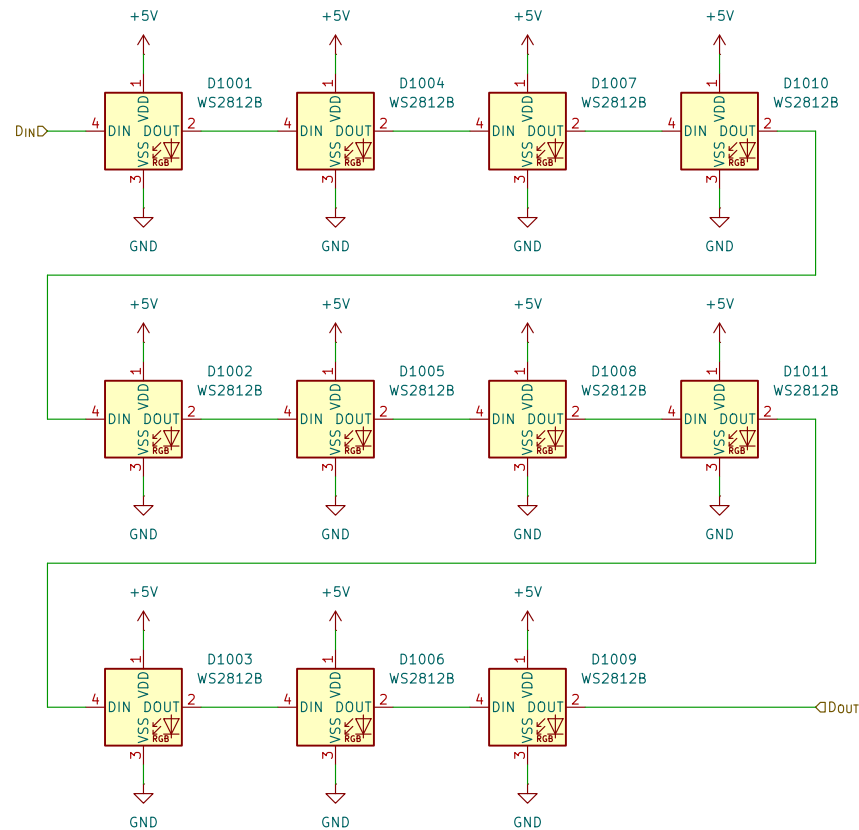
Rev: A

Id: 8/17



Rev: A
Id: 9/17





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Author: Nikolai Zoller

Company: ElektroNik Zoller

Sheet: LED11-3

File: LEDx11.kicad_sch

Title: Wordclock – LED Row with 11 pcs.

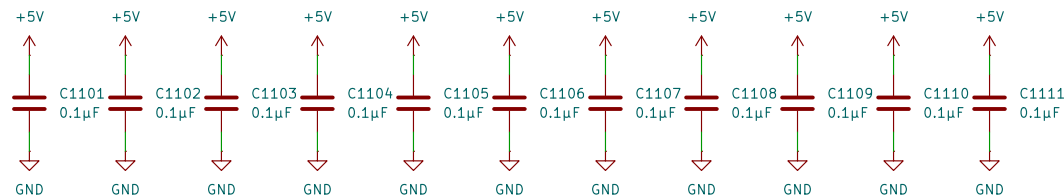
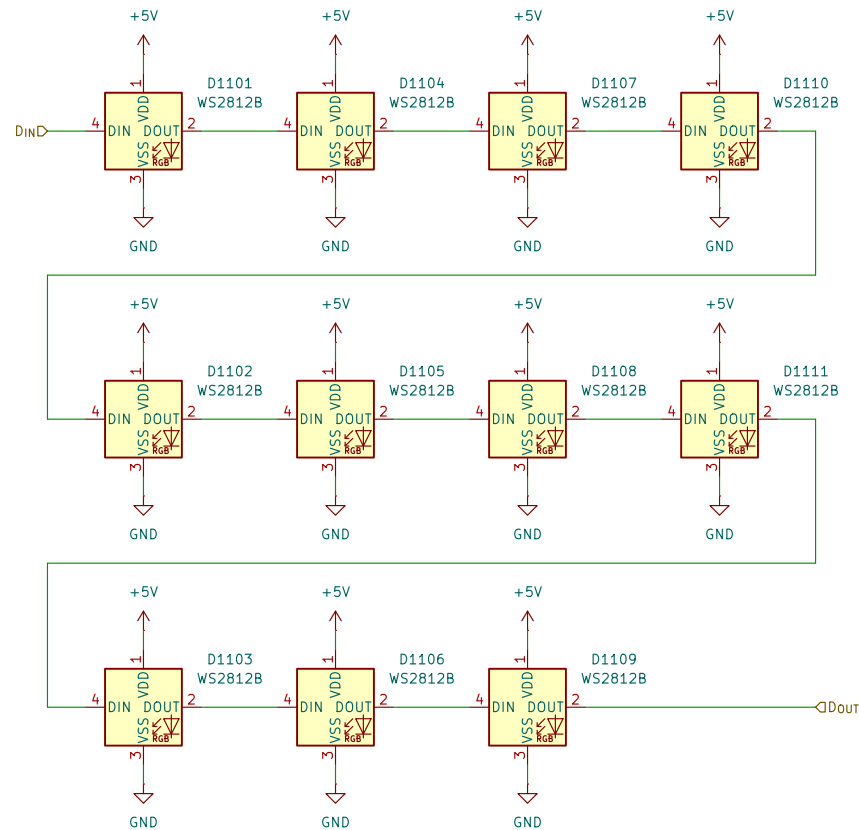
Size: A4

Date: 2024-10-29

Rev: A

KiCad E.D.A. 8.0.6

Id: 10/17



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Author: Nikolai Zoller
Company: ElektroNik Zoller

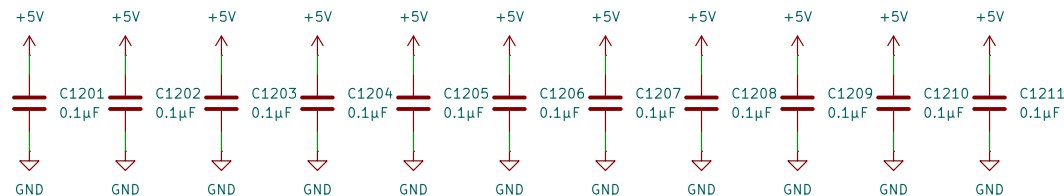
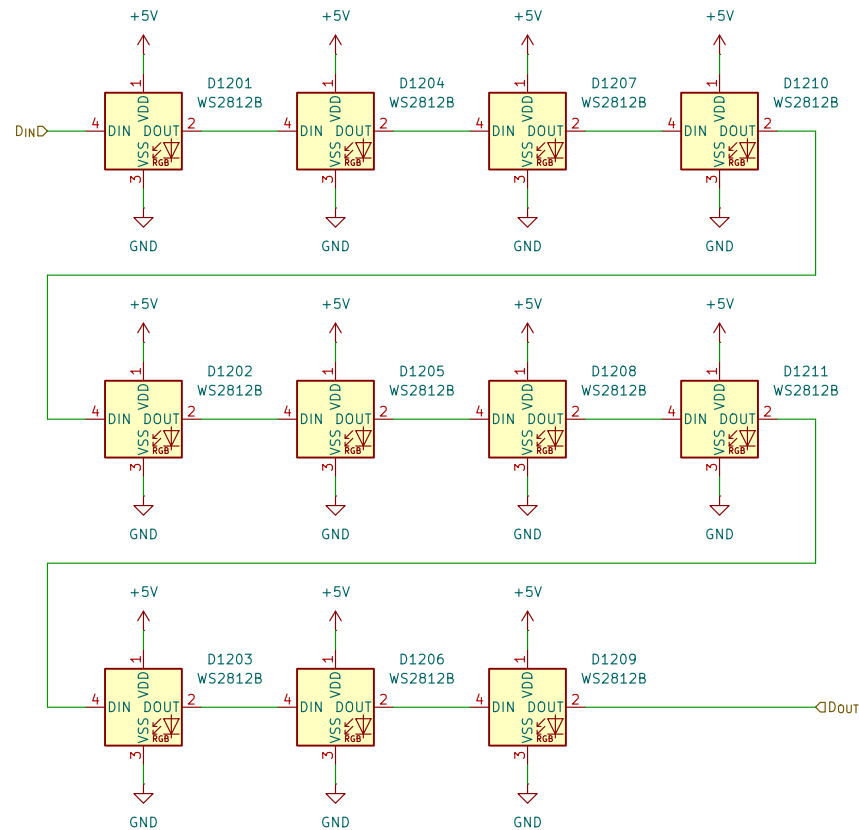
Sheet: LED11-4
File: LEDx11.kicad_sch

Title: Wordclock – LED Row with 11 pcs.

Size: A4
KiCad E.D.A. 8.0.6

Date: 2024-10-29

Rev: A
Id: 11/17



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Author: Nikolai Zoller

Company: ElektroNik Zoller

Sheet: LED11-5

File: LEDx11.kicad_sch

Title: Wordclock – LED Row with 11 pcs.

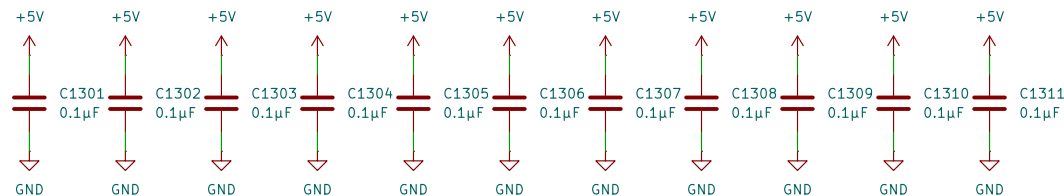
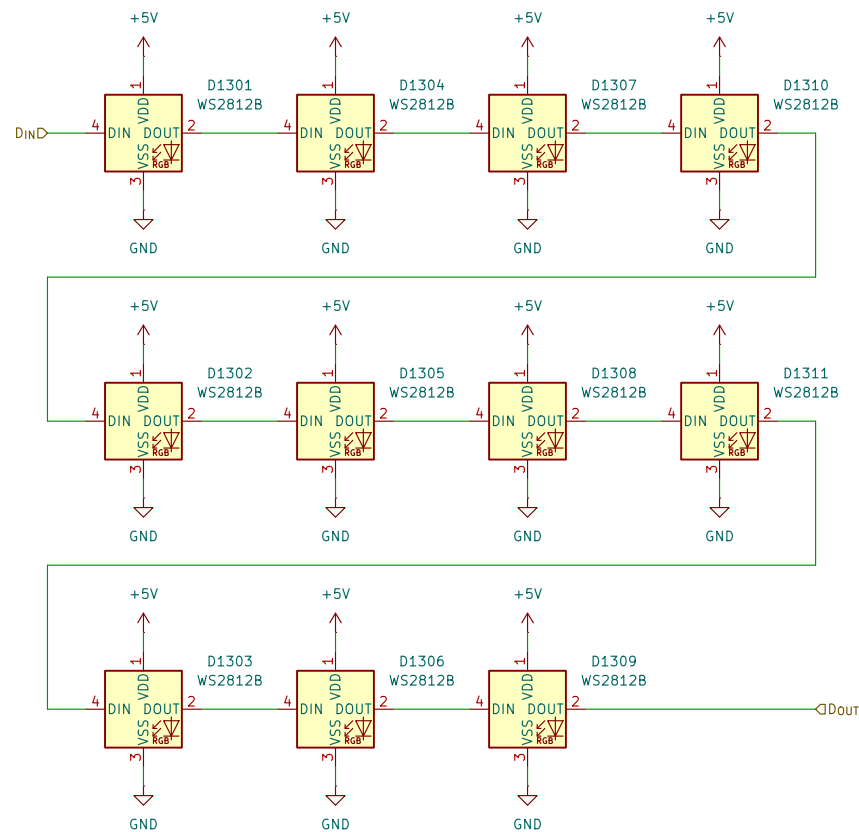
Size: A4

Date: 2024-10-29

Rev: A

KiCad E.D.A. 8.0.6

Id: 12/17



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Author: Nikolai Zoller
Company: ElektroNik Zoller

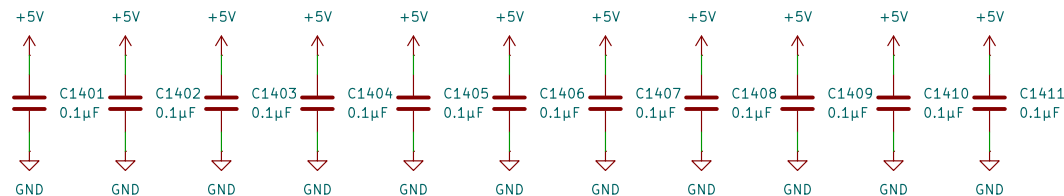
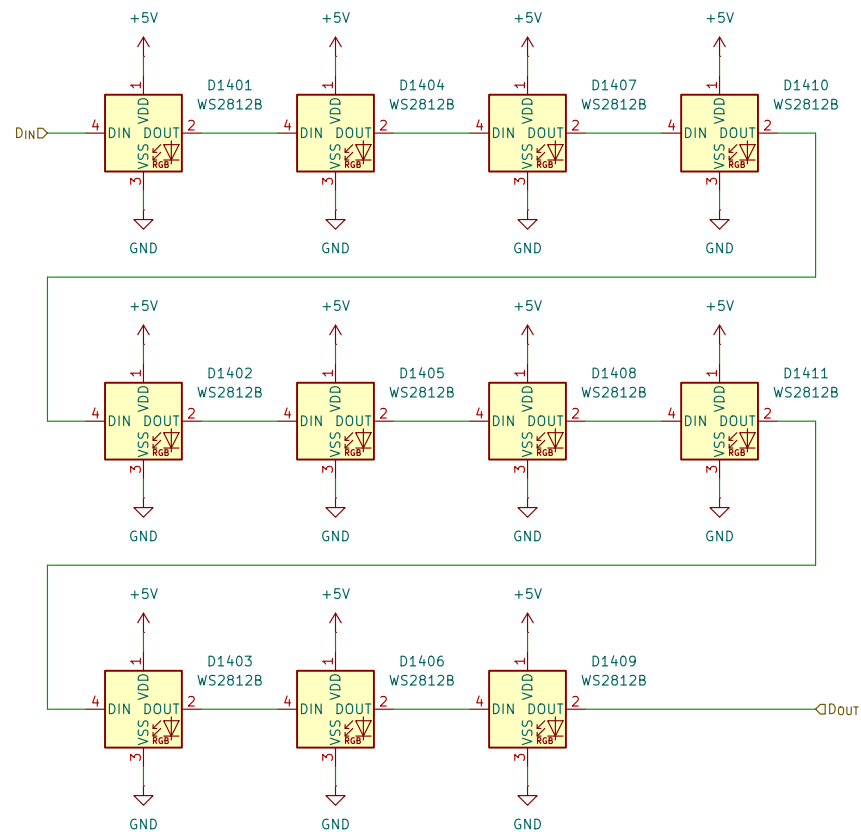
Sheet: LED11-6
File: LEDx11.kicad_sch

Title: Wordclock – LED Row with 11 pcs.

Size: A4
KiCad E.D.A. 8.0.6

Date: 2024-10-29

Rev: A
Id: 13/17



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Author: Nikolai Zoller

Company: ElektroNik Zoller

Sheet: LED11-7

File: LEDx11.kicad_sch

Title: Wordclock – LED Row with 11 pcs.

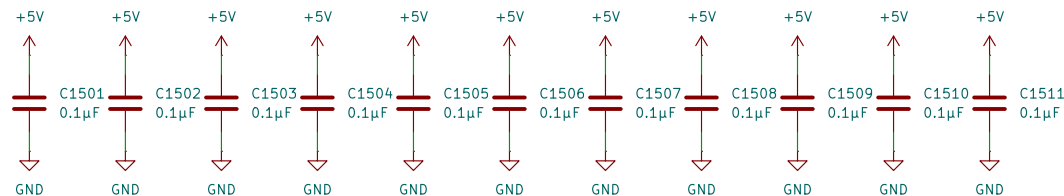
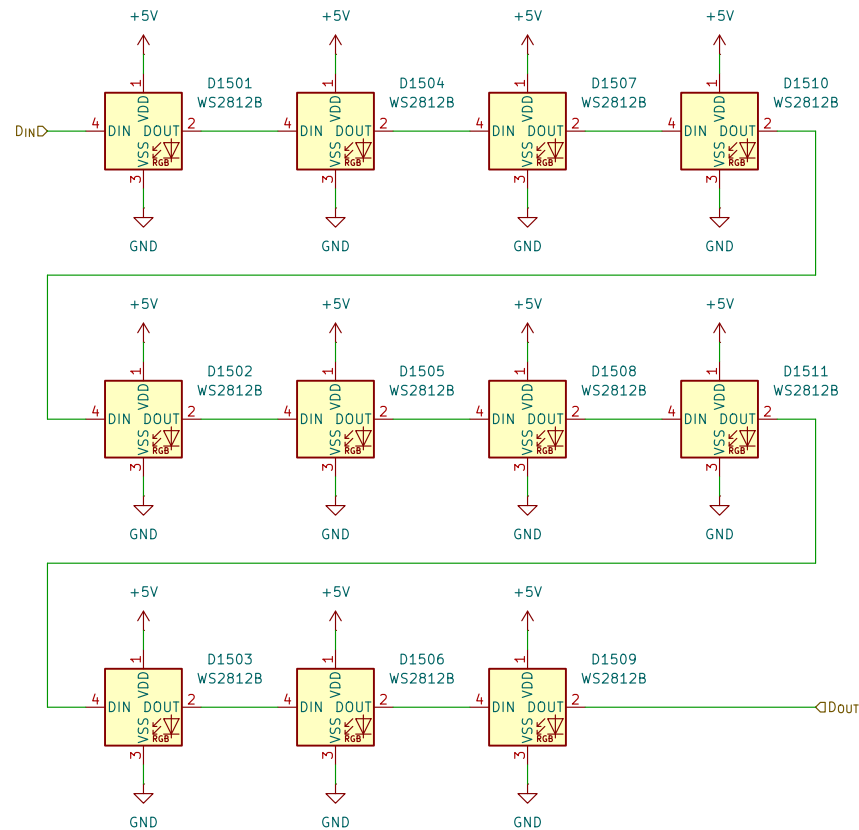
Size: A4

Date: 2024-10-29

Rev: A

KiCad E.D.A. 8.0.6

Id: 14/17



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Author: Nikolai Zoller
Company: ElektroNik Zoller

Sheet: LED11-8
File: LEDx11.kicad_sch

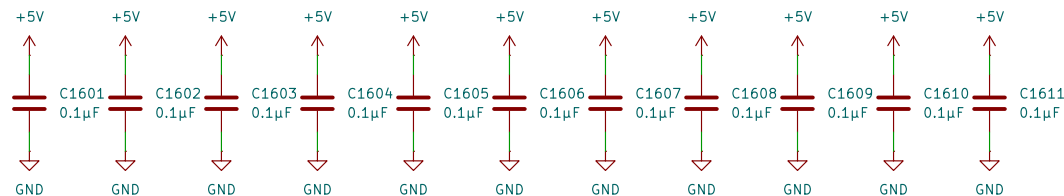
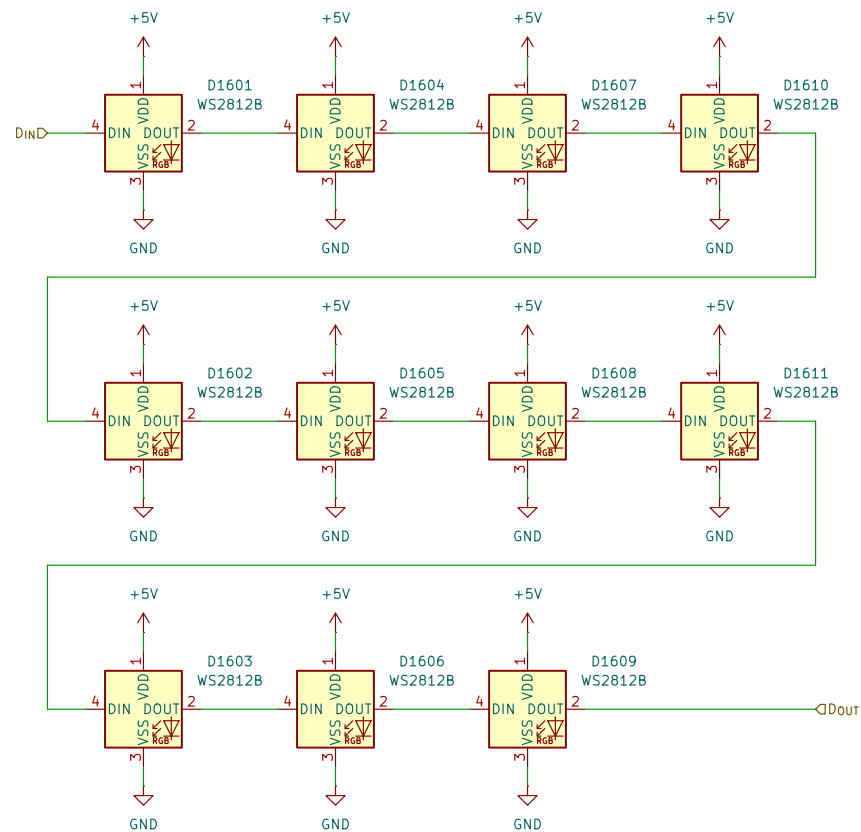
Title: Wordclock – LED Row with 11 pcs.

Size: A4 Date: 2024-10-29

KiCad E.D.A. 8.0.6

Rev: A

Id: 15/17



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Author: Nikolai Zoller

Company: ElektroNik Zoller

Sheet: LED11-9

File: LEDx11.kicad_sch

Title: Wordclock – LED Row with 11 pcs.

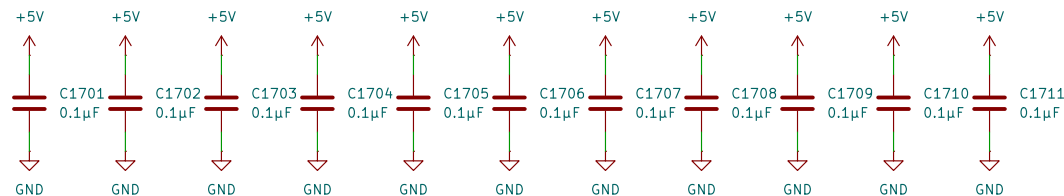
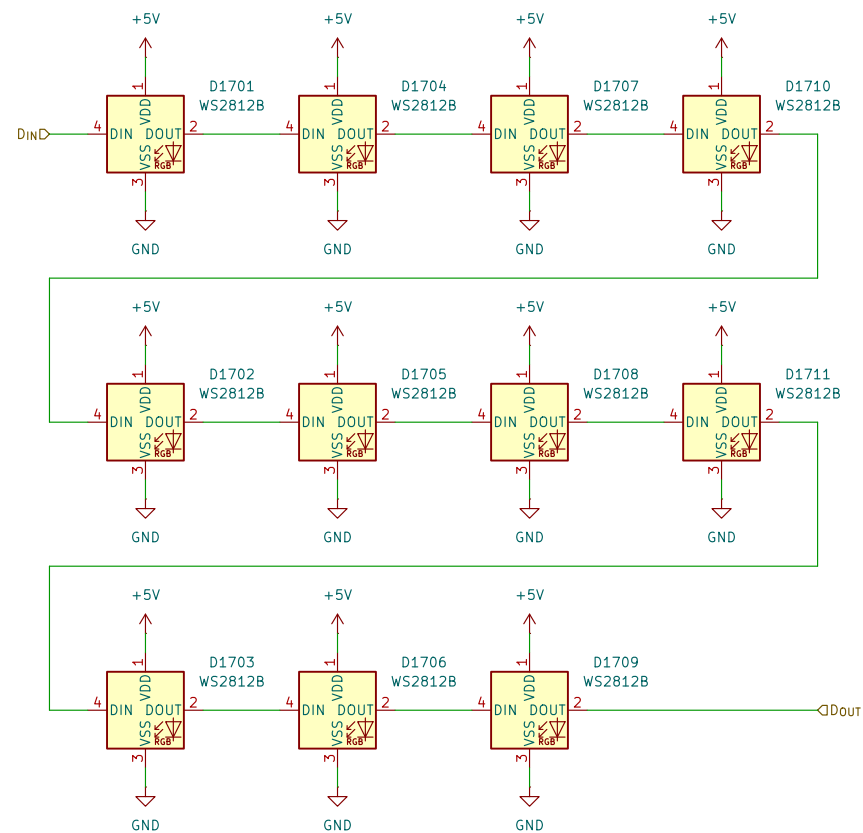
Size: A4


Date: 2024-10-29

Rev: A

KiCad E.D.A. 8.0.6

Id: 16/17



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Author: Nikolai Zoller Company: ElektroNik Zoller			
Sheet: LED11-10 File: LEDx11.kicad_sch			
Title: Wordclock – LED Row with 11 pcs.			
Size: A4	Date: 2024-10-29	Rev: A	
KiCad E.D.A. 8.0.6		Id: 17/17	