

Star Control

Star Notes:
- IC has max 120ma per channel

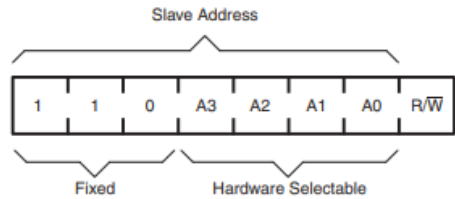
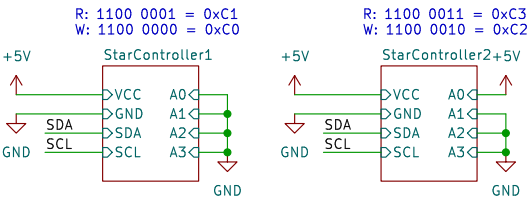
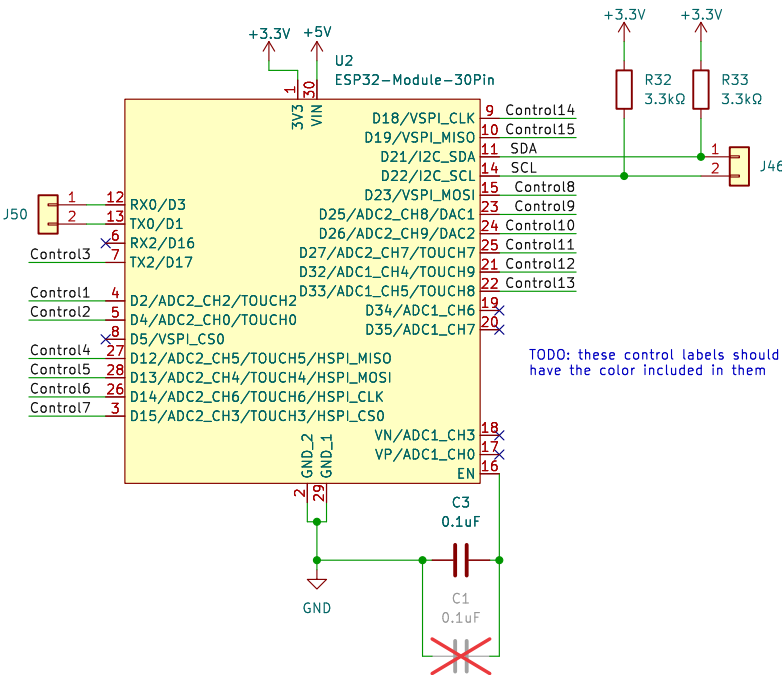


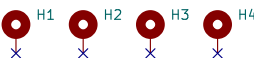
Figure 8. Slave Address



Microprocessor



Mounting Holes

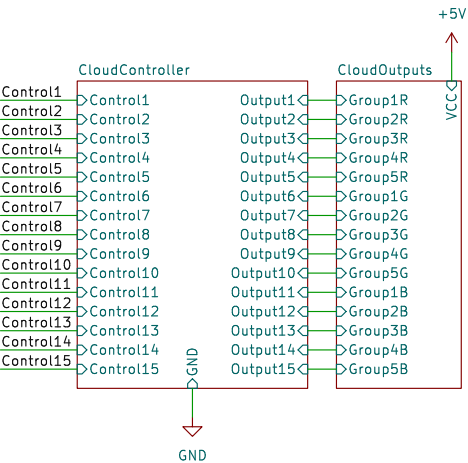


Cloud Control

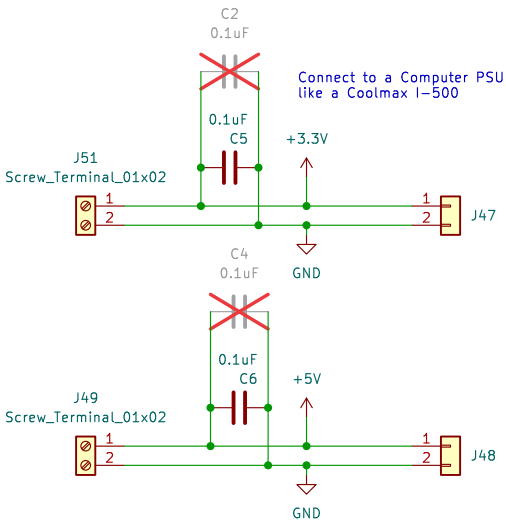
Cloud Notes:
- 30 LEDs / 100cm
- 20mA per 1 LED
- 60mA / 10cm
- Clouds have 90cm -> 540mA / 0.54A per channel

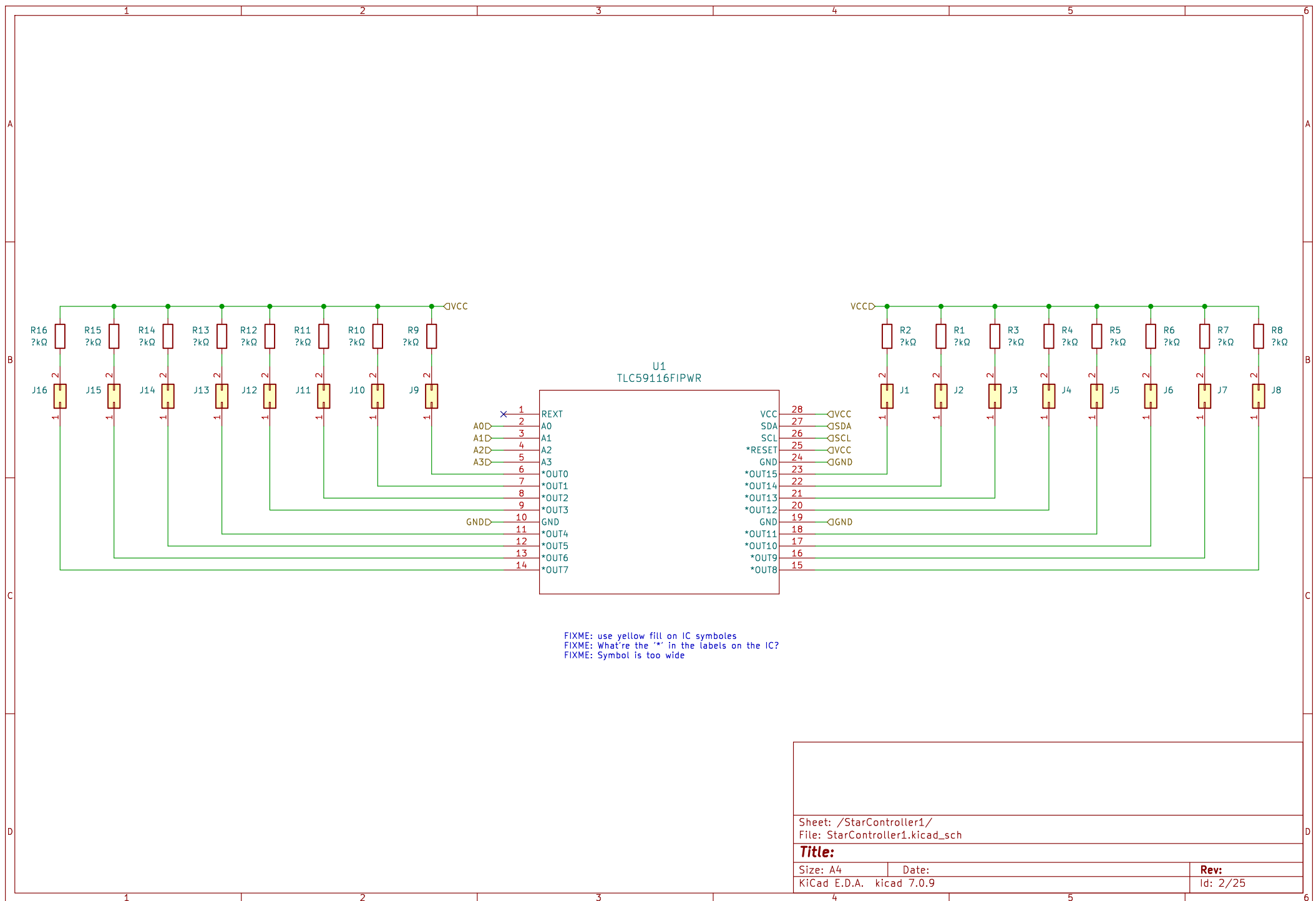
Cloud Setup:
- 15 clouds
- Group clouds in groups of 3
- 5 cloud groups * 3 channels per group
- 15 channels
- Each channel should handle up to 2A

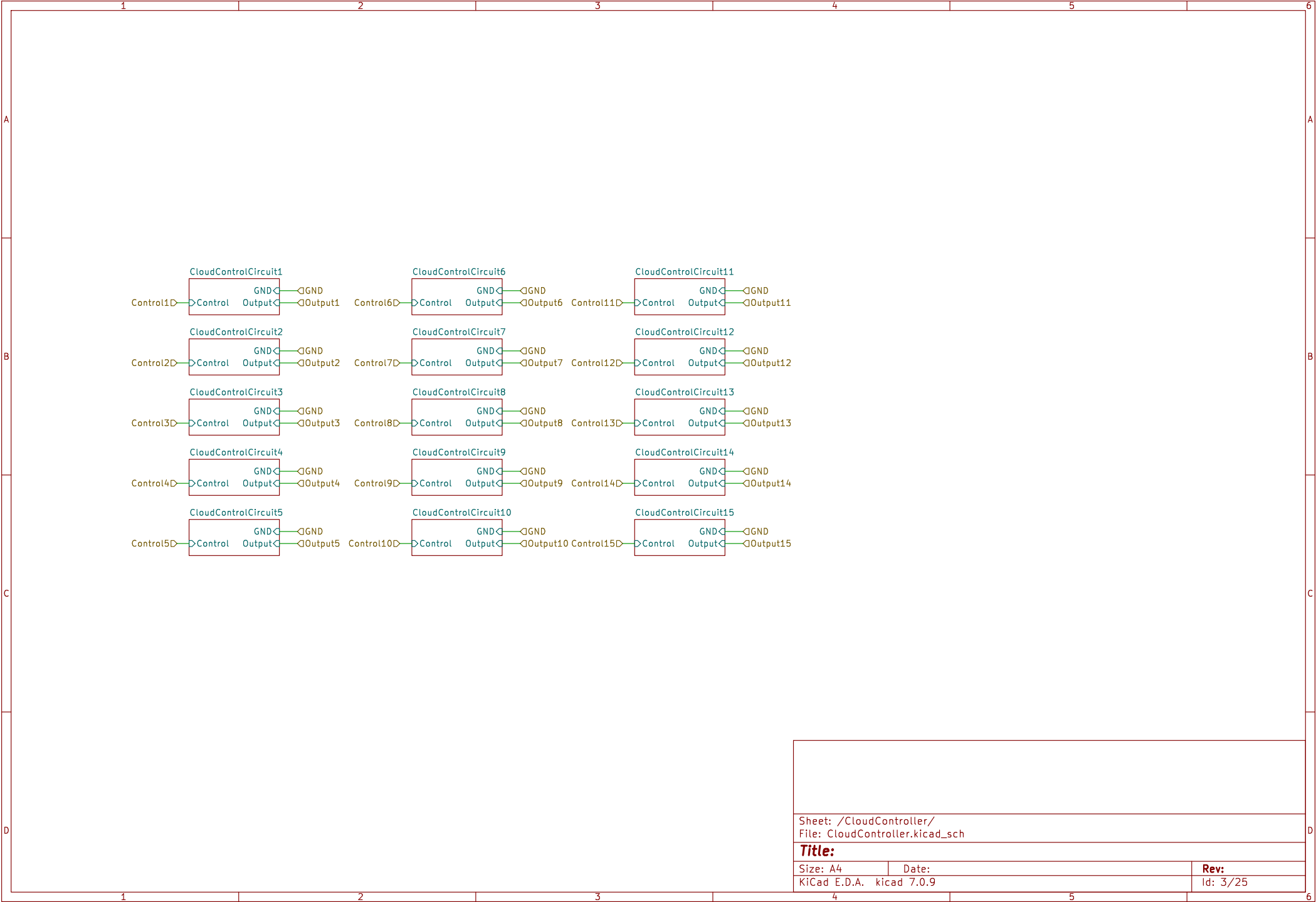
TLDR: 15x 2A PWM channels

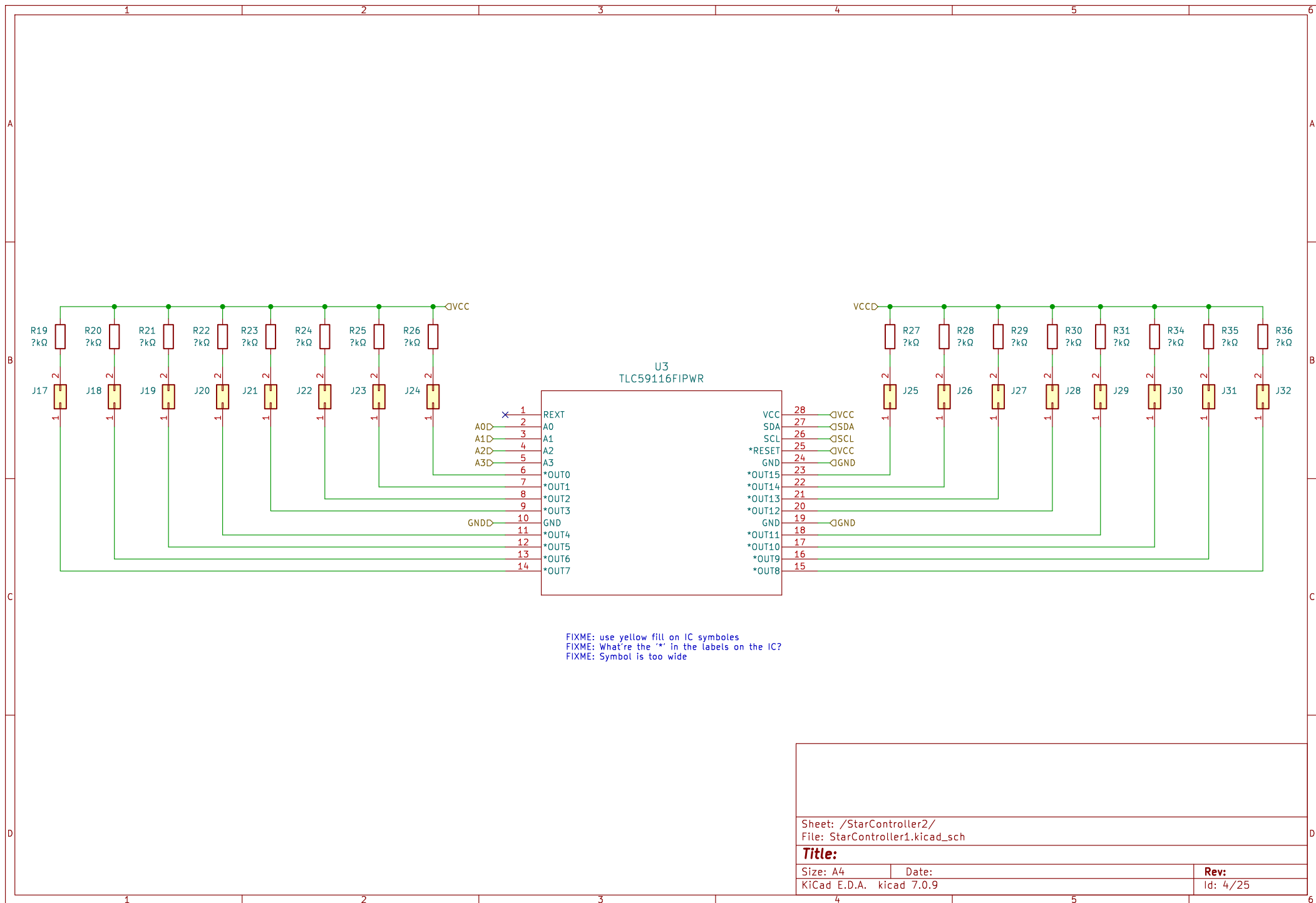


Power

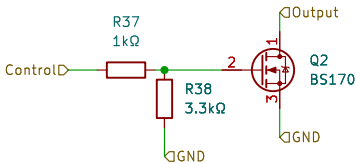








Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

Sheet: /CloudController/CloudControlCircuit1/
File: CloudControlCircuit1.kicad_sch

Title:

Size: A4

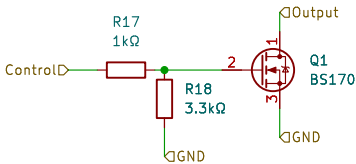
Date:

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Rev:

Id: 5/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

Sheet: /CloudController/CloudControlCircuit2/
File: CloudControlCircuit1.kicad_sch

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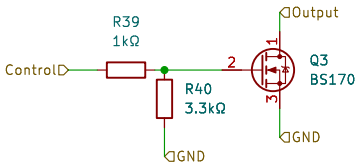
Date:

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Rev:

Id: 6/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

Sheet: /CloudController/CloudControlCircuit3/
File: CloudControlCircuit1.kicad_sch

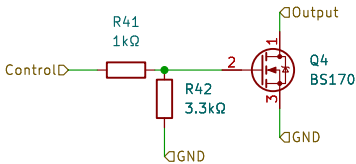
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Size: A4
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Date:

Rev:
Id: 7/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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Size: A4

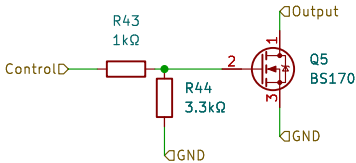
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Rev:

Id: 8/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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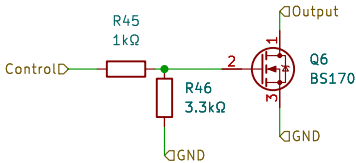
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Rev:

Id: 9/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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Size: A4

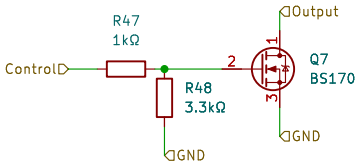
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Rev:

Id: 10/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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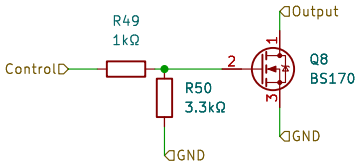
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KiCad E.D.A. kicad 7.0.9

Rev:

Id: 11/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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Size: A4

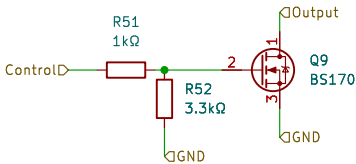
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KiCad E.D.A. kicad 7.0.9

Rev:

Id: 12/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

Sheet: /CloudController/CloudControlCircuit9/
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Size: A4

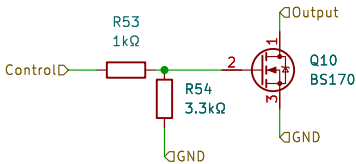
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Rev:

Id: 13/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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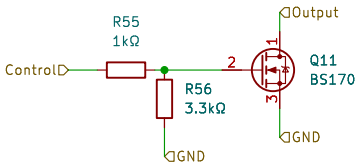
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Rev:

Id: 14/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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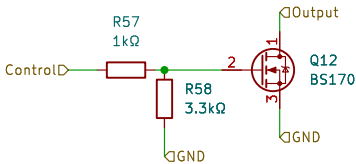
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KiCad E.D.A. kicad 7.0.9

Rev:

Id: 15/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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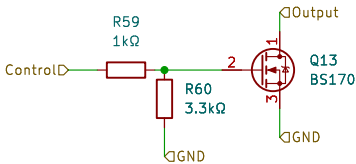
Title:

Size: A4
KiCad E.D.A. kicad 7.0.9

Date:

Rev:
Id: 16/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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Size: A4

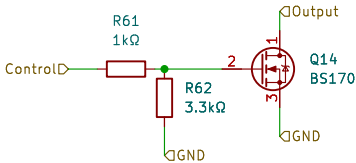
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KiCad E.D.A. kicad 7.0.9

Rev:

Id: 17/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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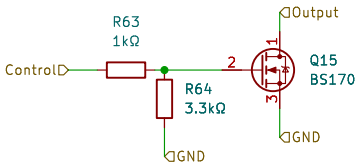
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Rev:

Id: 18/25

Note: The top inline resistor is largely unnecessary,
and it can be shorted/0 ohm.



FIXME: Common ground should be used; don't use hierarchical pin
for GND

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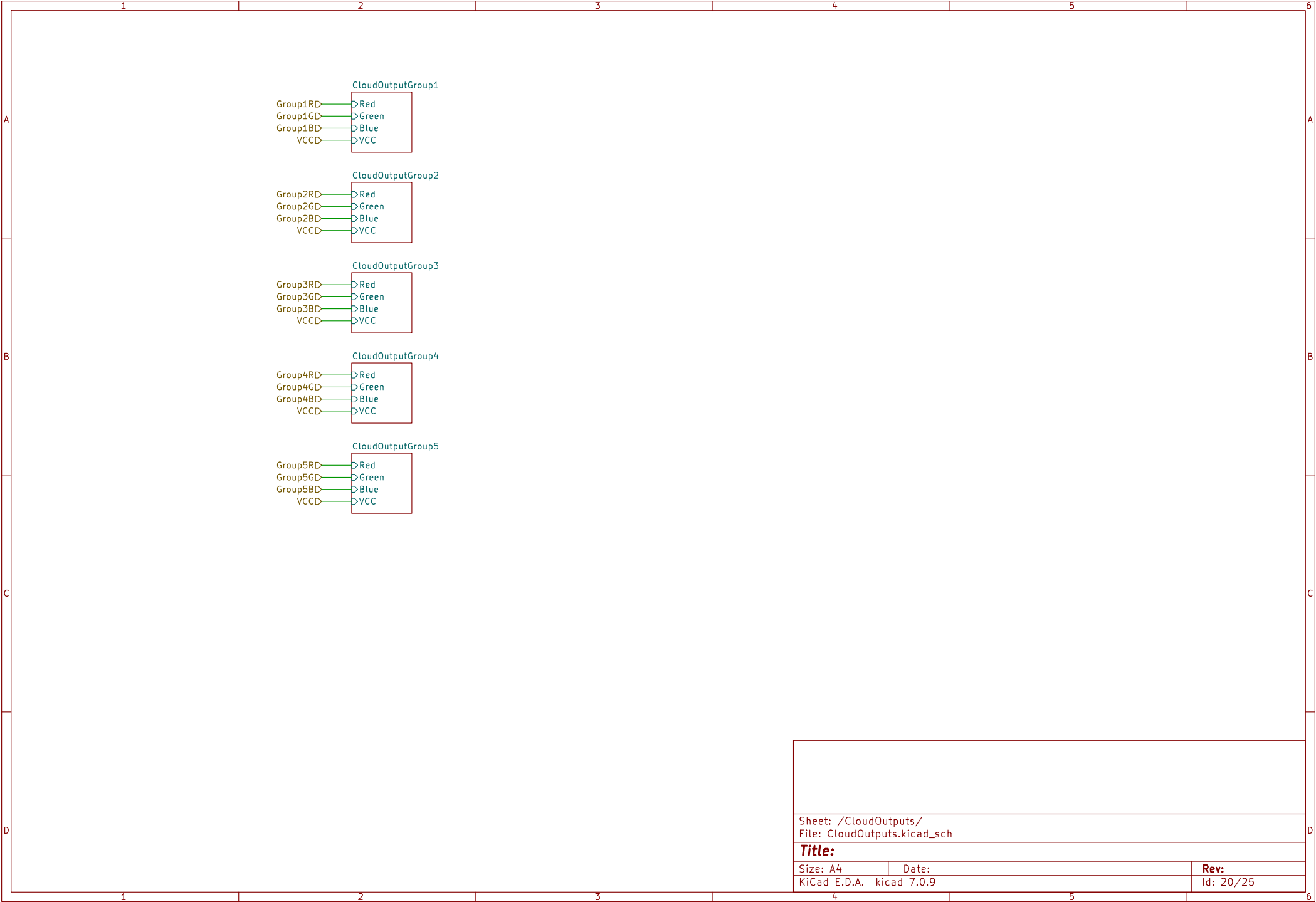
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Rev:

Id: 19/25



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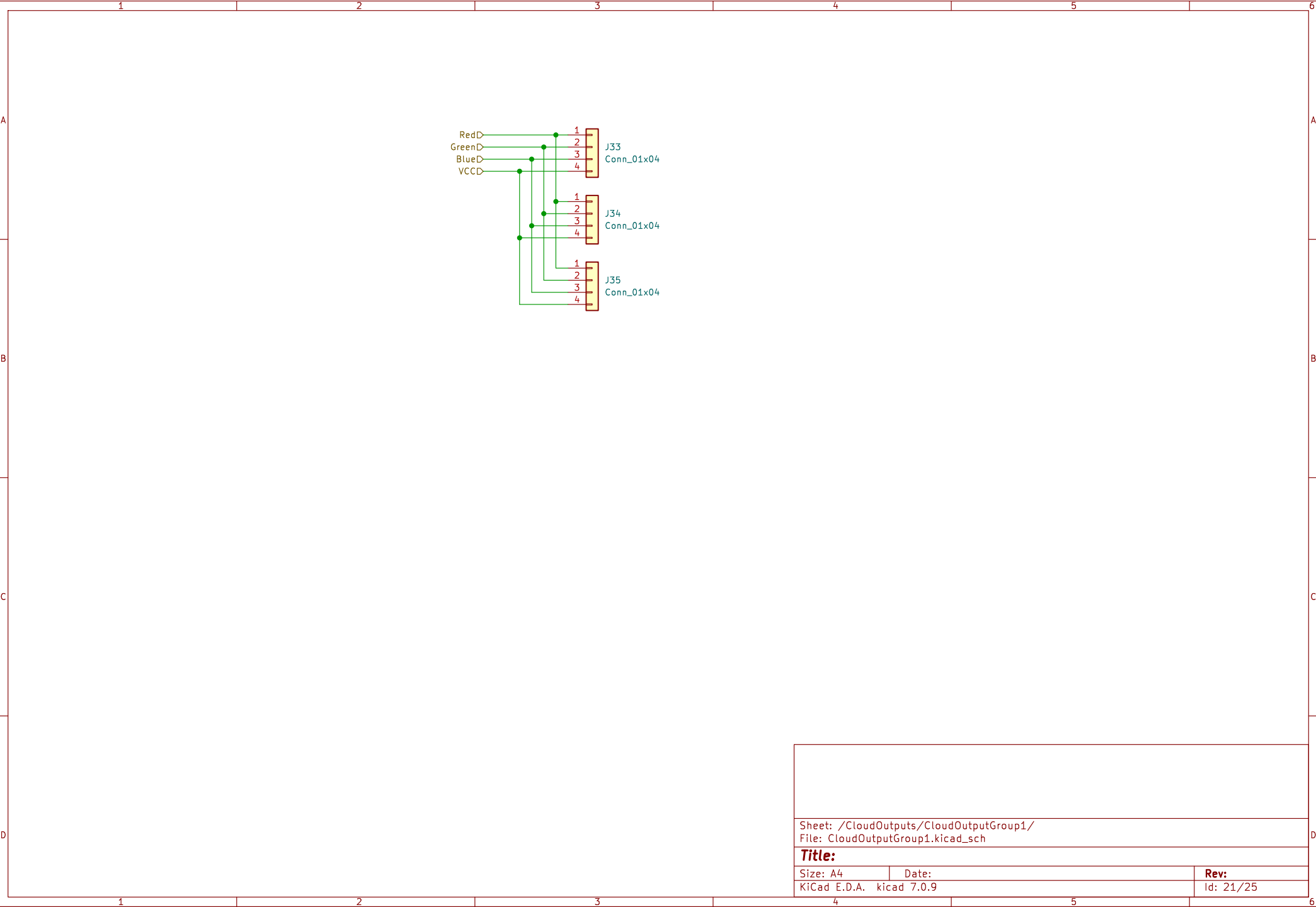
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KiCad E.D.A. kicad 7.0.9

Rev:

Id: 20/25



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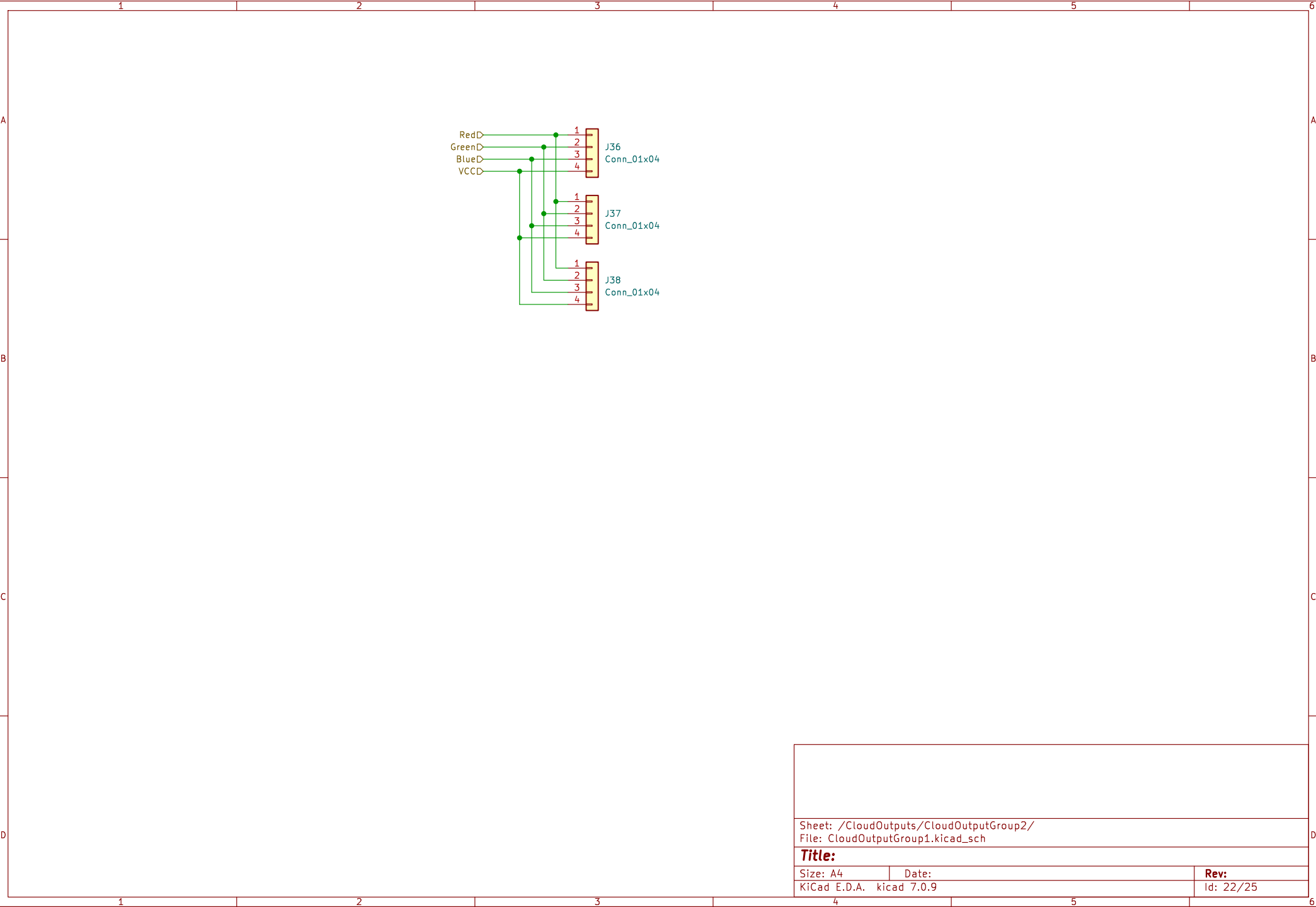
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Rev:

Id: 21/25



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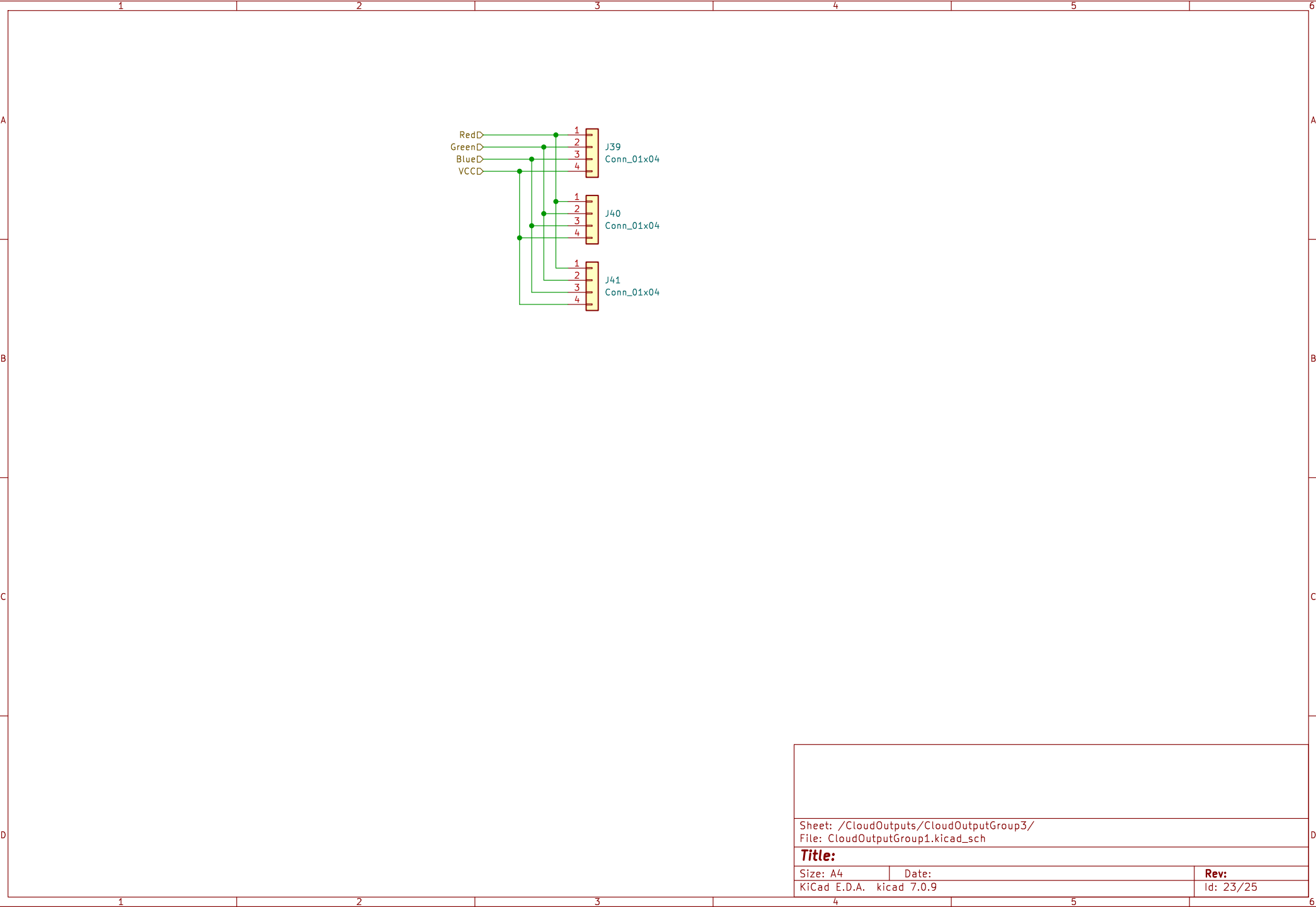
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KiCad E.D.A. kicad 7.0.9

Rev:

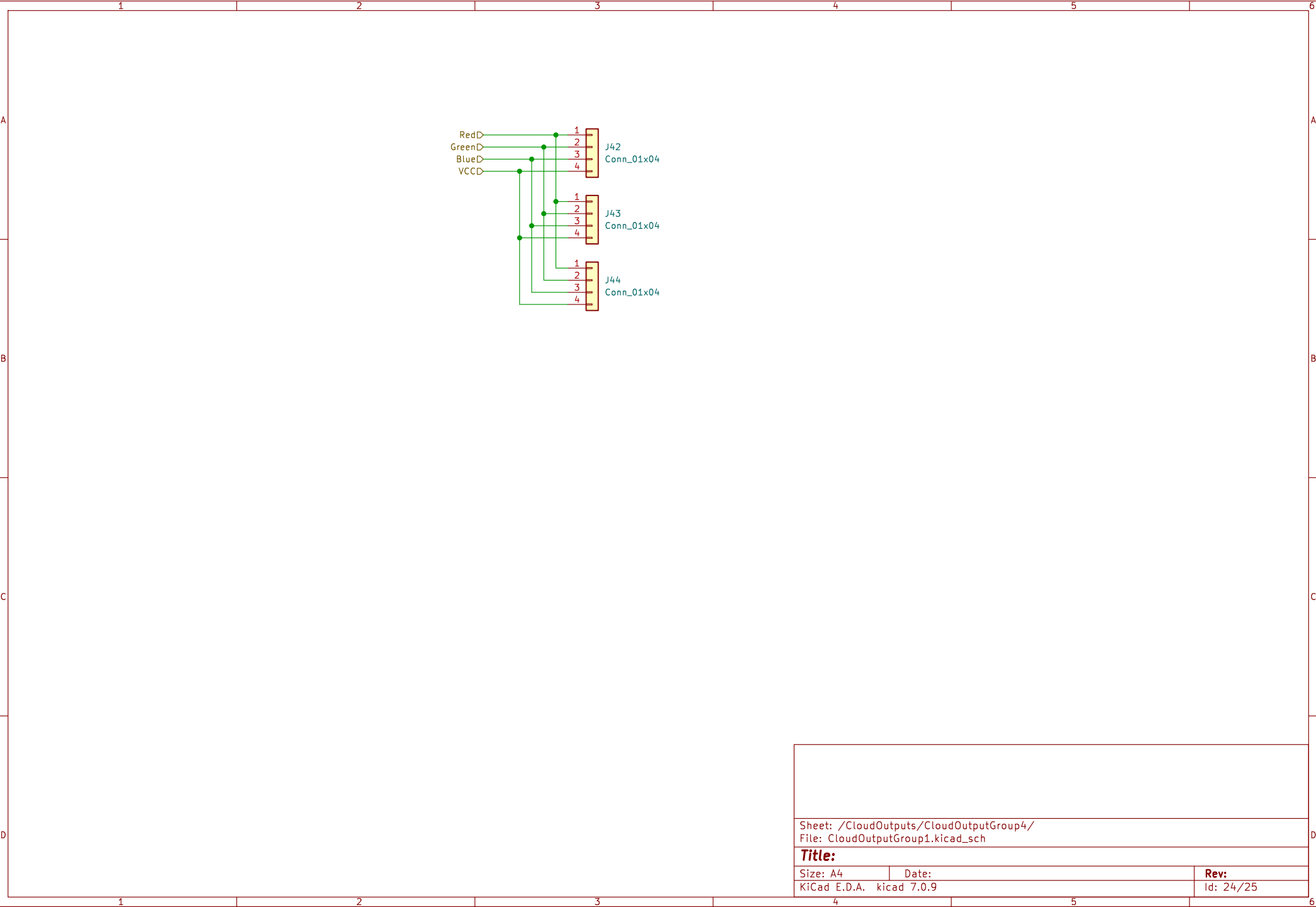
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KiCad E.D.A. kicad 7.0.9		Id: 23/25



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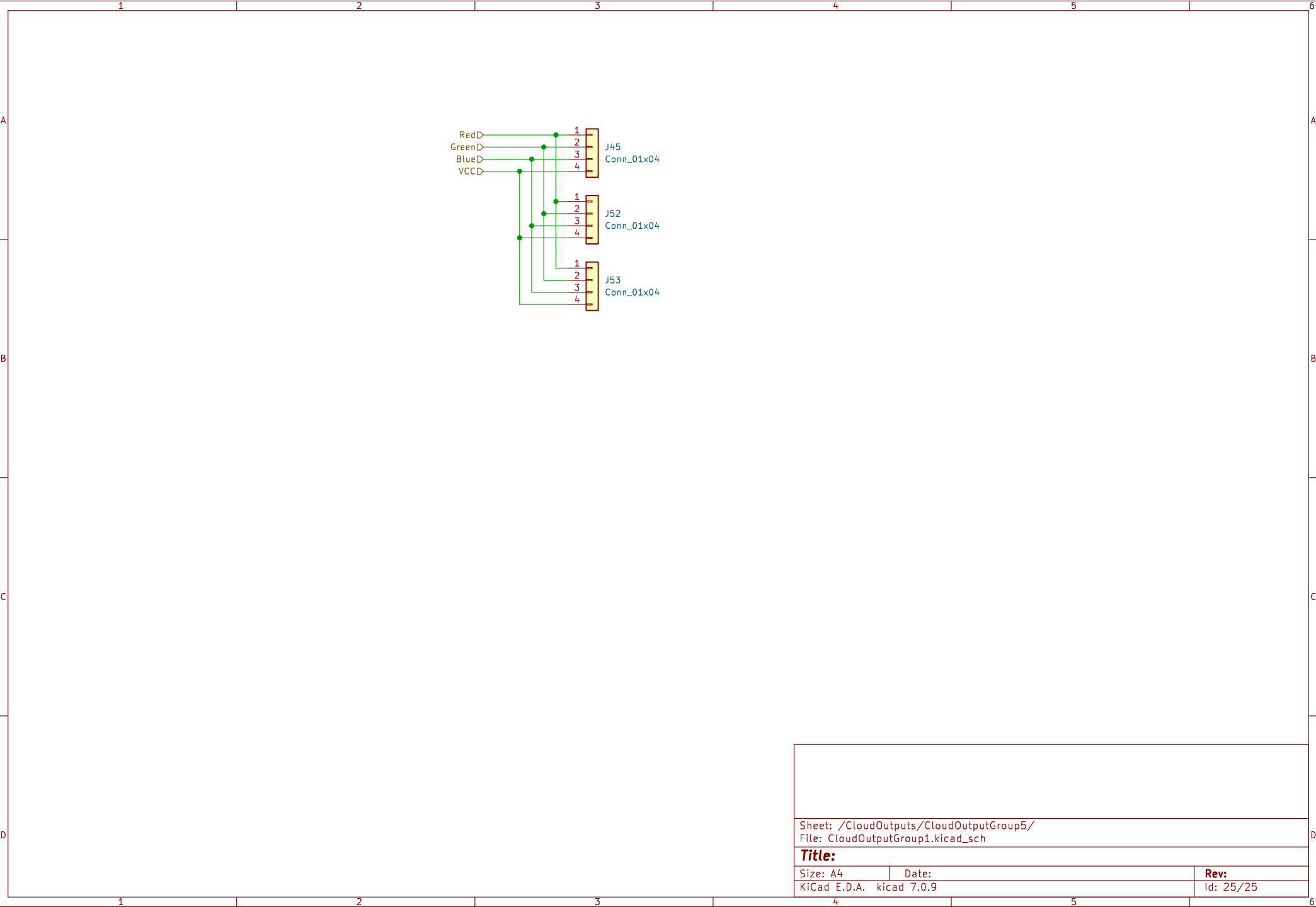
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Date:

KiCad E.D.A. kicad 7.0.9

Rev:

Id: 24/25



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Title:

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KiCad E.D.A. kicad 7.0.9		Id: 25/25