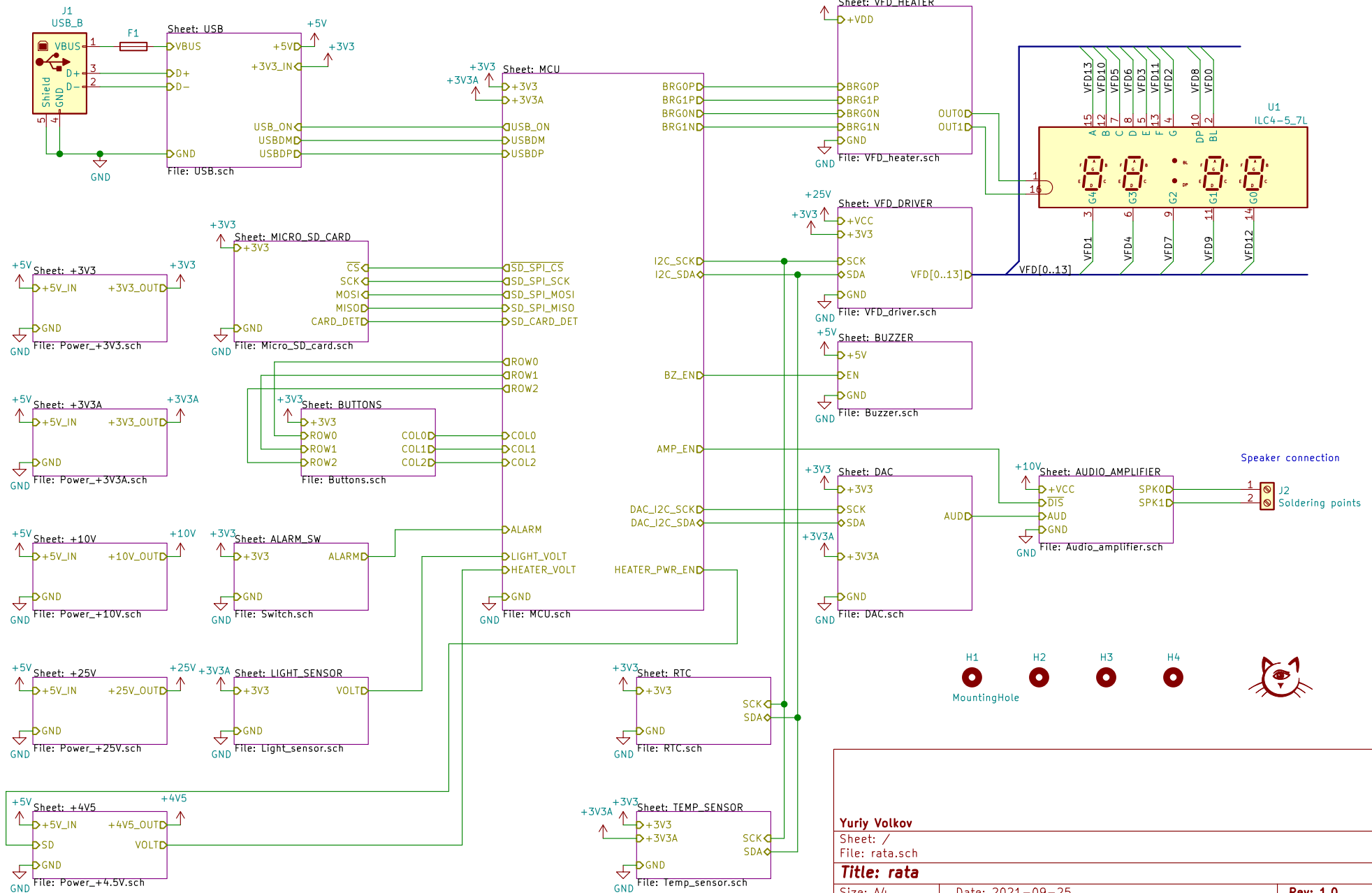


Clock



Yuriy Volkov

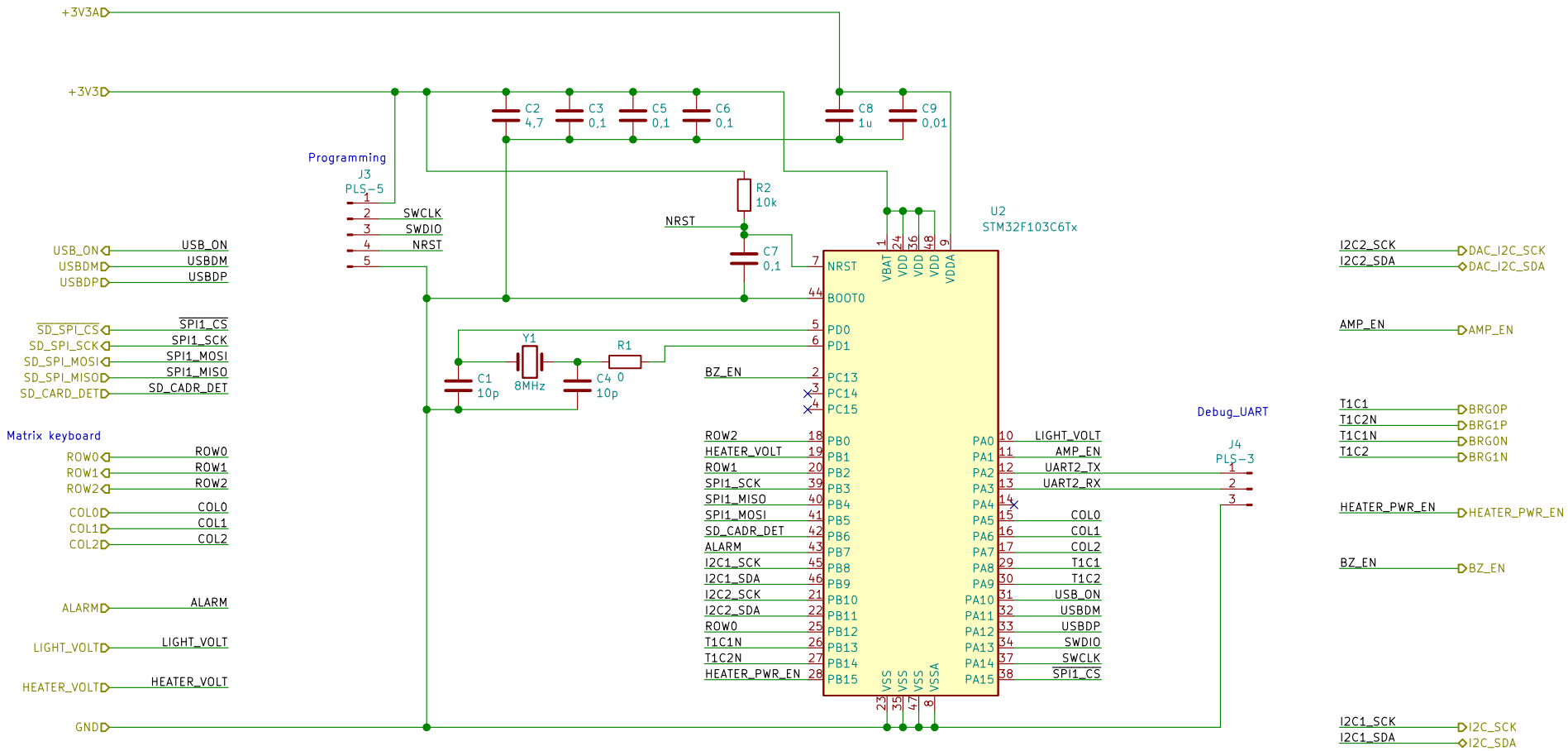
Sheet: /
File: rata.sch

Title: rata

Size: A4 Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 1/23

MCU



Yuriy Volkov

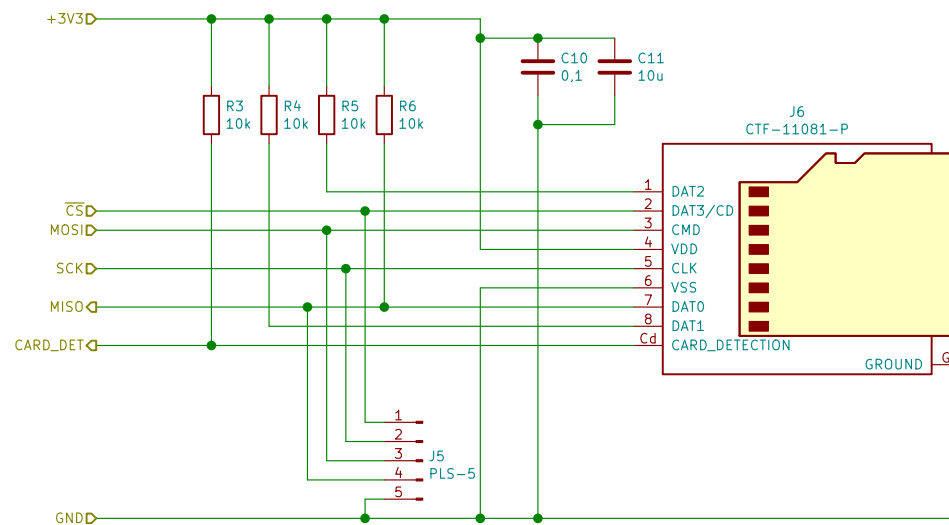
Sheet: /MCU/
File: MCU.sch

Title: rata

Size: A4 Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 2/23

Micro-SD card connector



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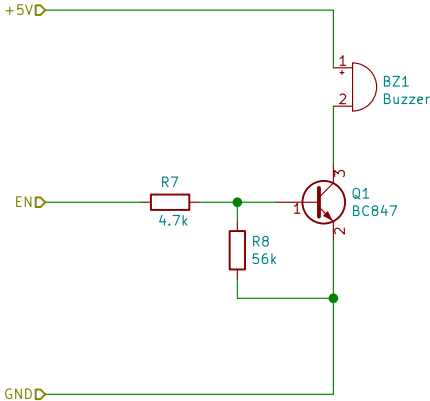
Sheet: /MICRO_SD_CARD/
File: Micro_SD_card.sch

Title: rata

Size: A4 Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 3/23

Buzzer



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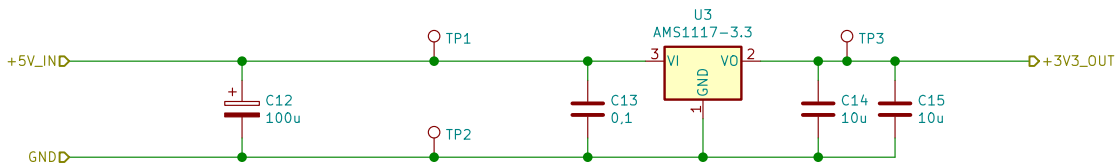
Sheet: /BUZZER/
File: Buzzer.sch

Title: rata

Size: A4 Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 4/23

Power source +3V3



Yuriy Volkov

Sheet: /+3V3/
File: Power_+3V3.sch

Title: rata

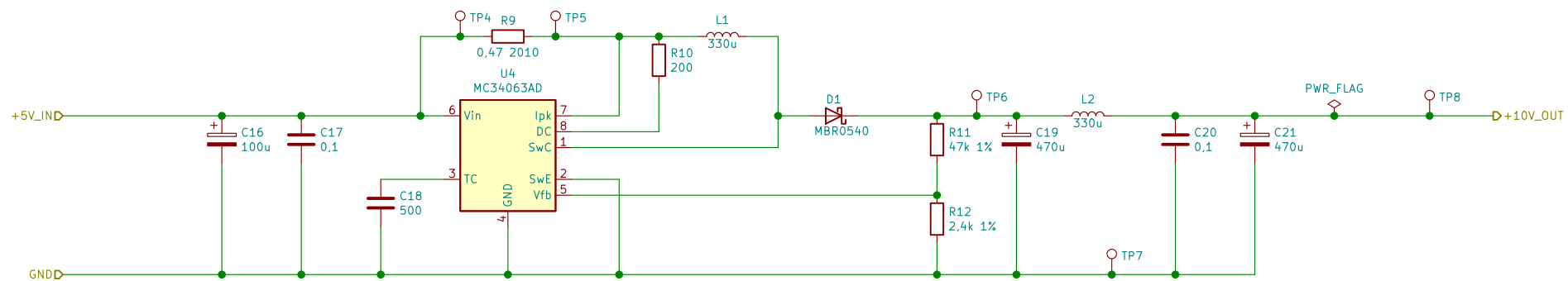
Size: A4
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Date: 2021-09-25

Rev: 1.0

Id: 5/23

Boost converter +10V



Yuriy Volkov

Sheet: /+10V/

File: Power_+10V.sch

Title: rata

Size: A4

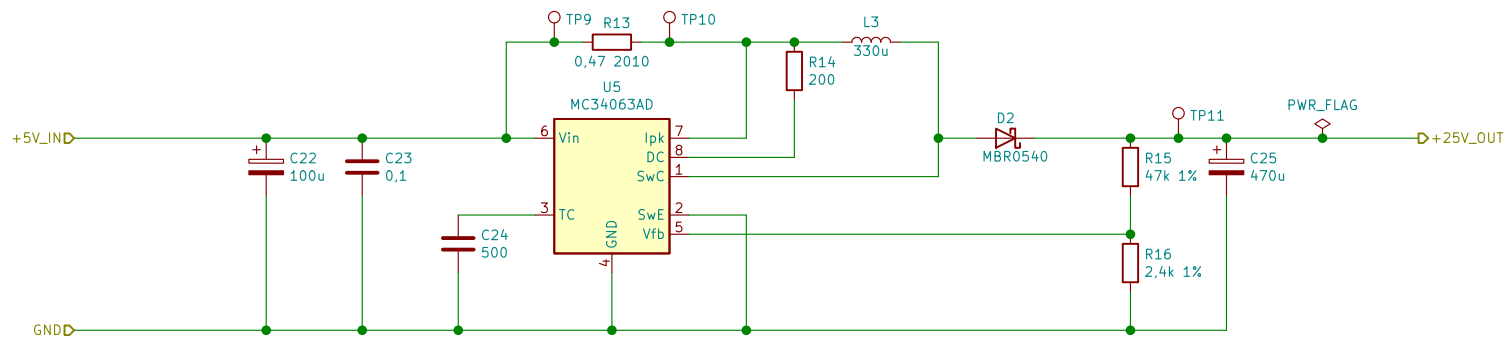
Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 6/23

Boost converter +25V



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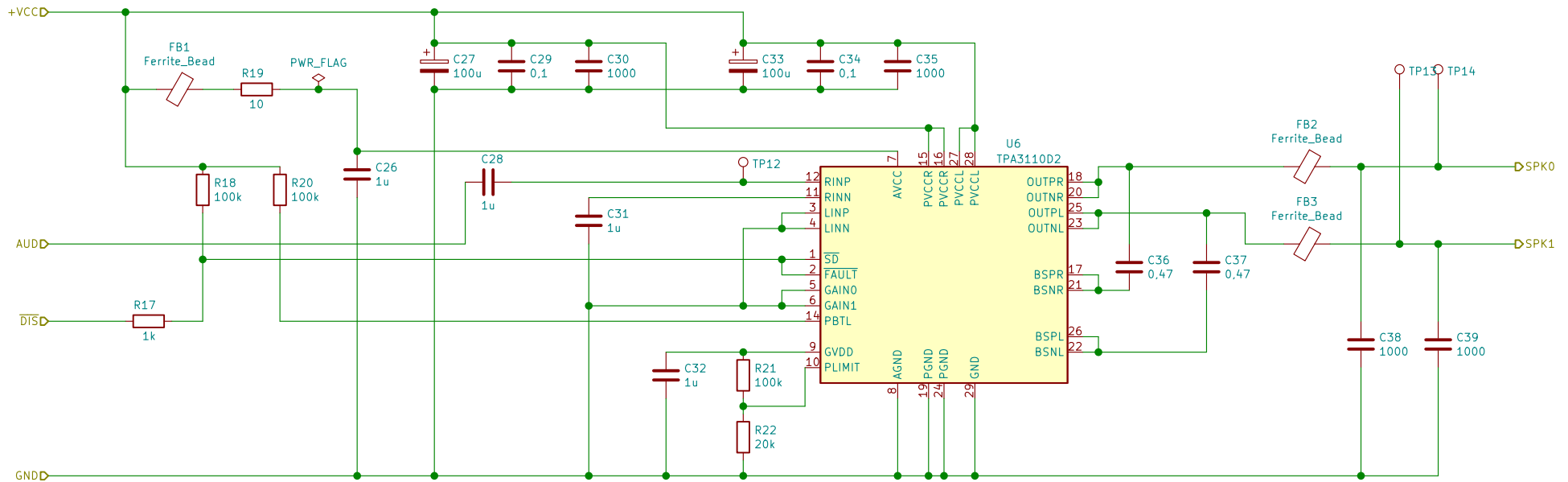
Sheet: /+25V/
File: Power_+25V.sch

Title: rata

Size: A4
Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 7/23

D class audio amplifier



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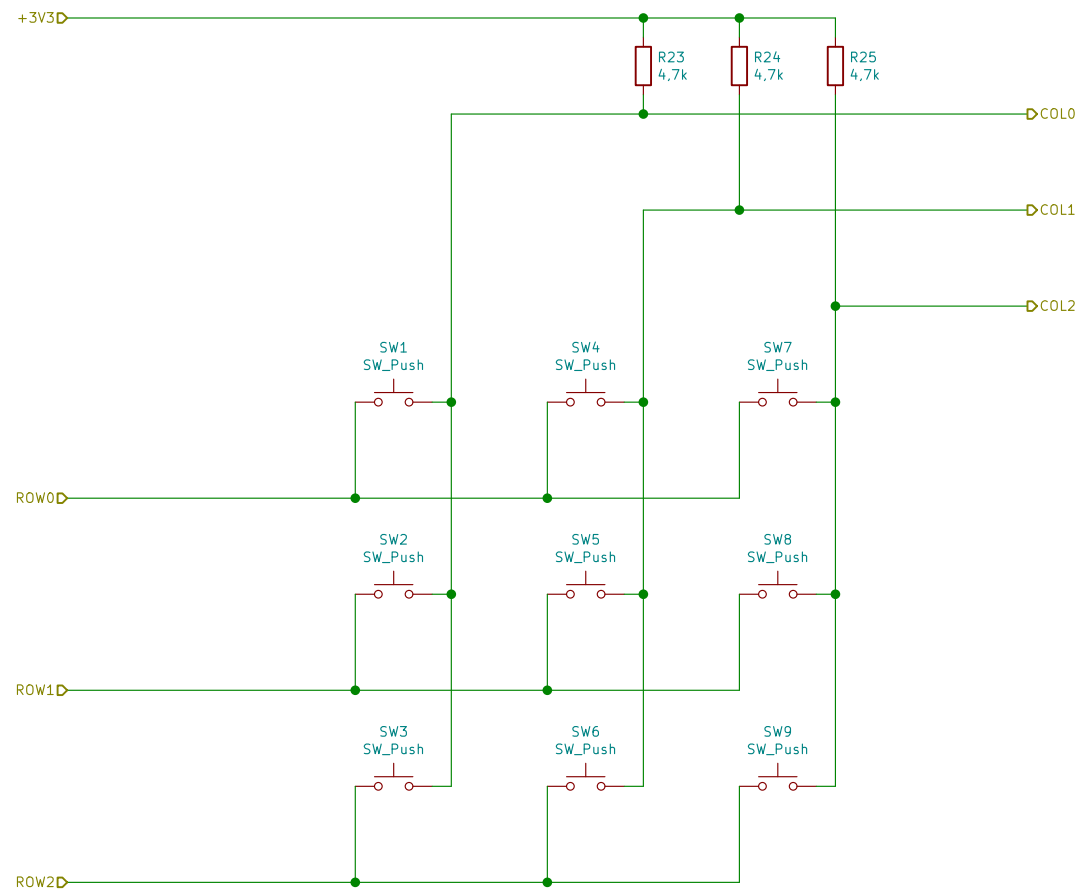
Sheet: /AUDIO_AMPLIFIER/
File: Audio_amplifier.sch

Title: rata

Size: A4 Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 8/23

Button matrix



Yuriy Volkov

Sheet: /BUTTONS/

File: Buttons.sch

Title: rata

Size: A4

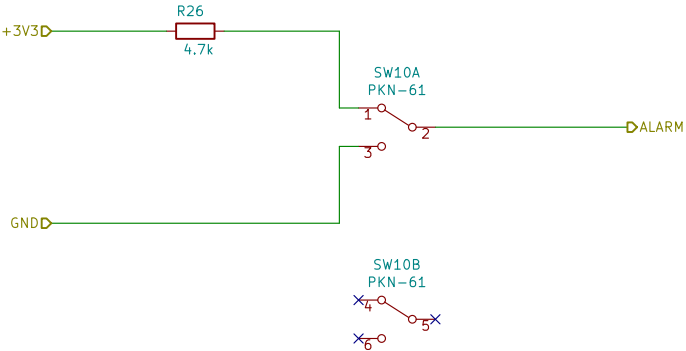
Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 9/23

Alarm switch



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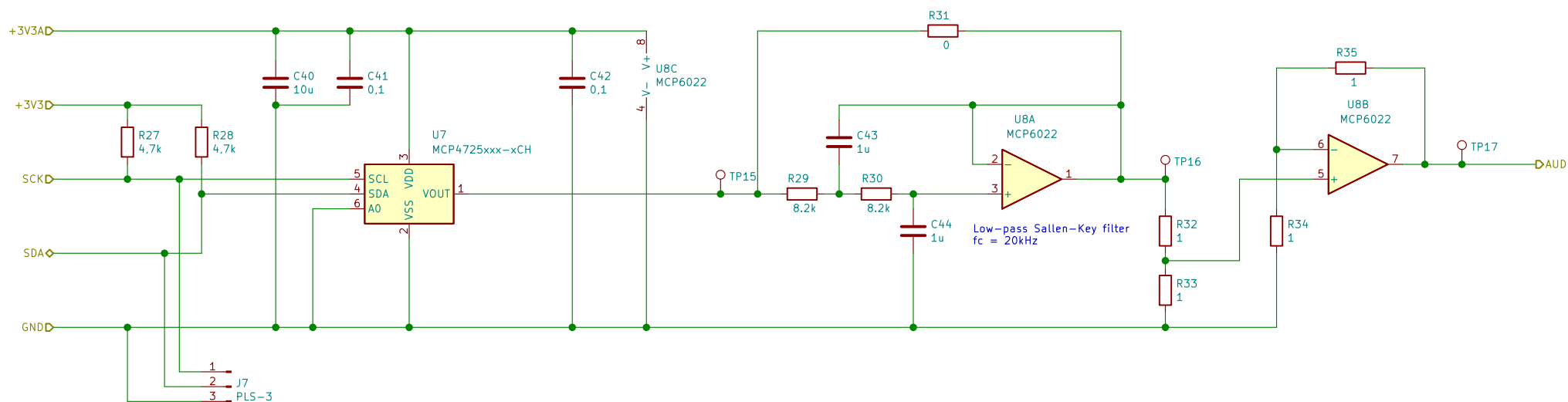
Sheet: /ALARM_SW/
File: Switch.sch

Title: rata

Size: A4 Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 10/23

DAC with filter and preamplifier



Yuriy Volkov

Sheet: /DAC/

File: DAC.sch

Title: rata

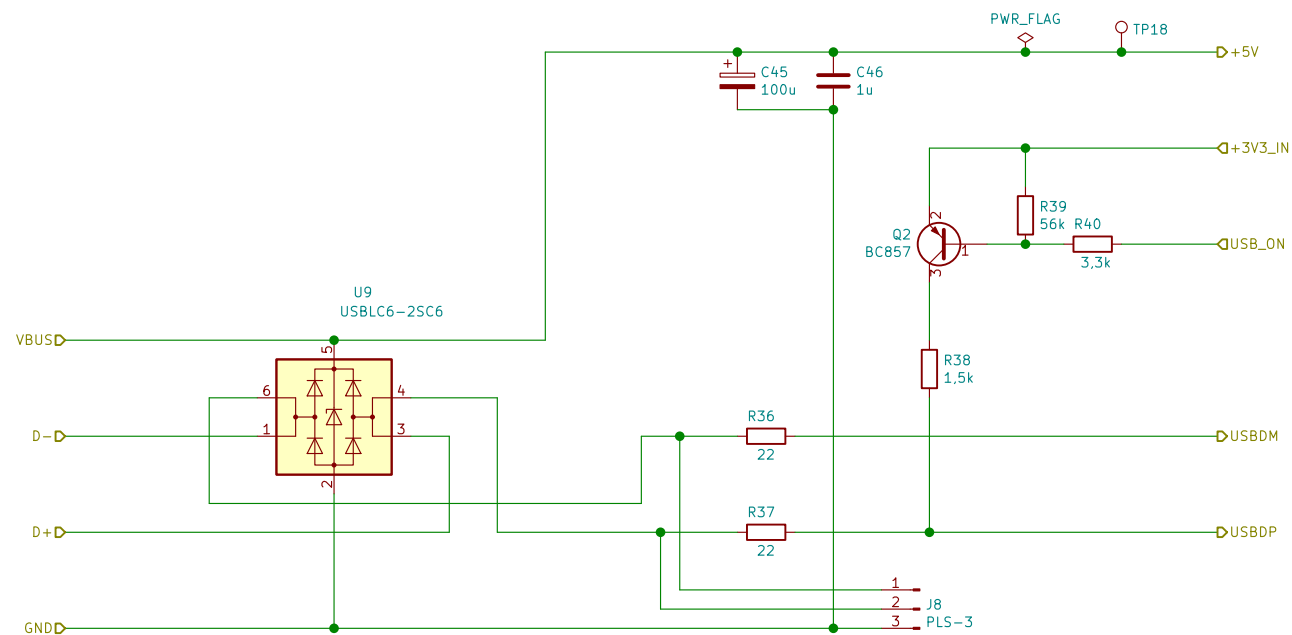
Size: A4 Date: 2021-09-25

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0

Id: 11/23

USB in/out circuit



Yuriy Volkov

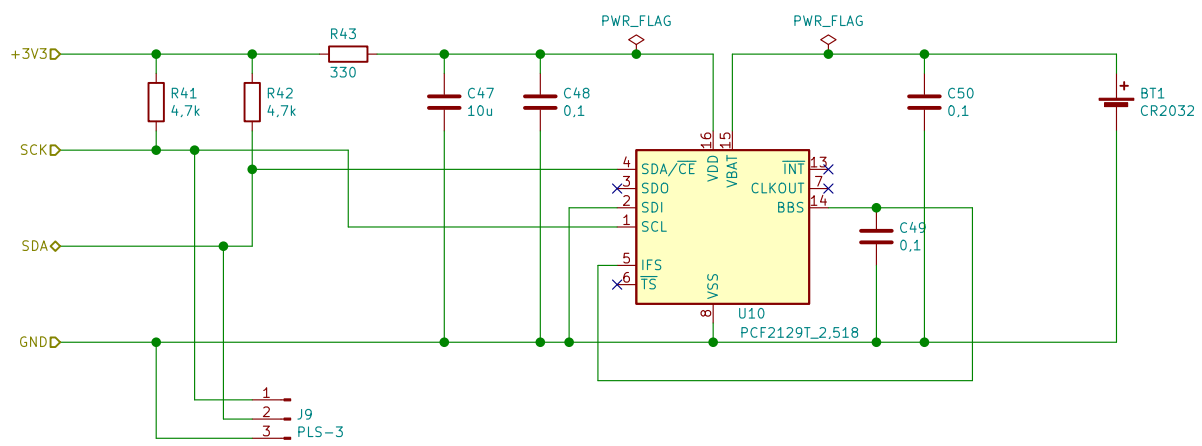
Sheet: /USB/
File: USB.sch

Title: rata

Size: A4 Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0
Id: 12/23

Battery powered RTC



Yuriy Volkov

Sheet: /RTC/
File: RTC.sch

Title: rata

Size: A4
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Date: 2021-09-25

Rev: 1.0

Id: 13/23

[illegible]

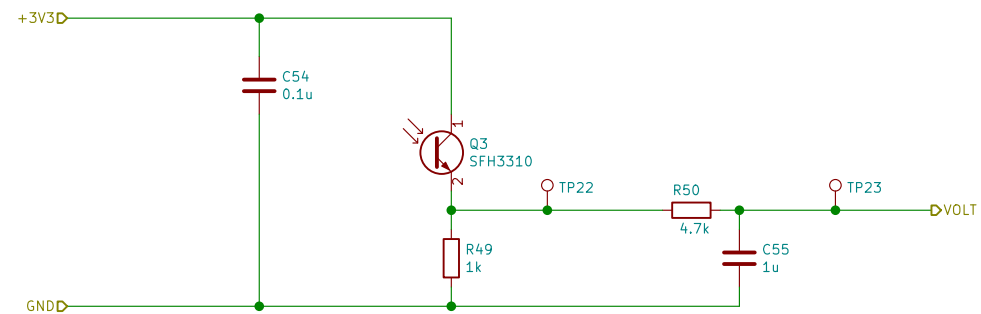
Sheet: /+4V5/
File: Power_+4.5V.sch

Size: A4	Date: 2021-09-25
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1	

Rev: 1.0

Id: 14/23

Light level sensor



Yuriy Volkov

Sheet: /LIGHT_SENSOR/

File: Light_sensor.sch

Title: rata

Size: A4

Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 15/23

[illegible]

Sheet: /TEMP_SENSOR/
File: Temp_sensor.sch

Size: A4

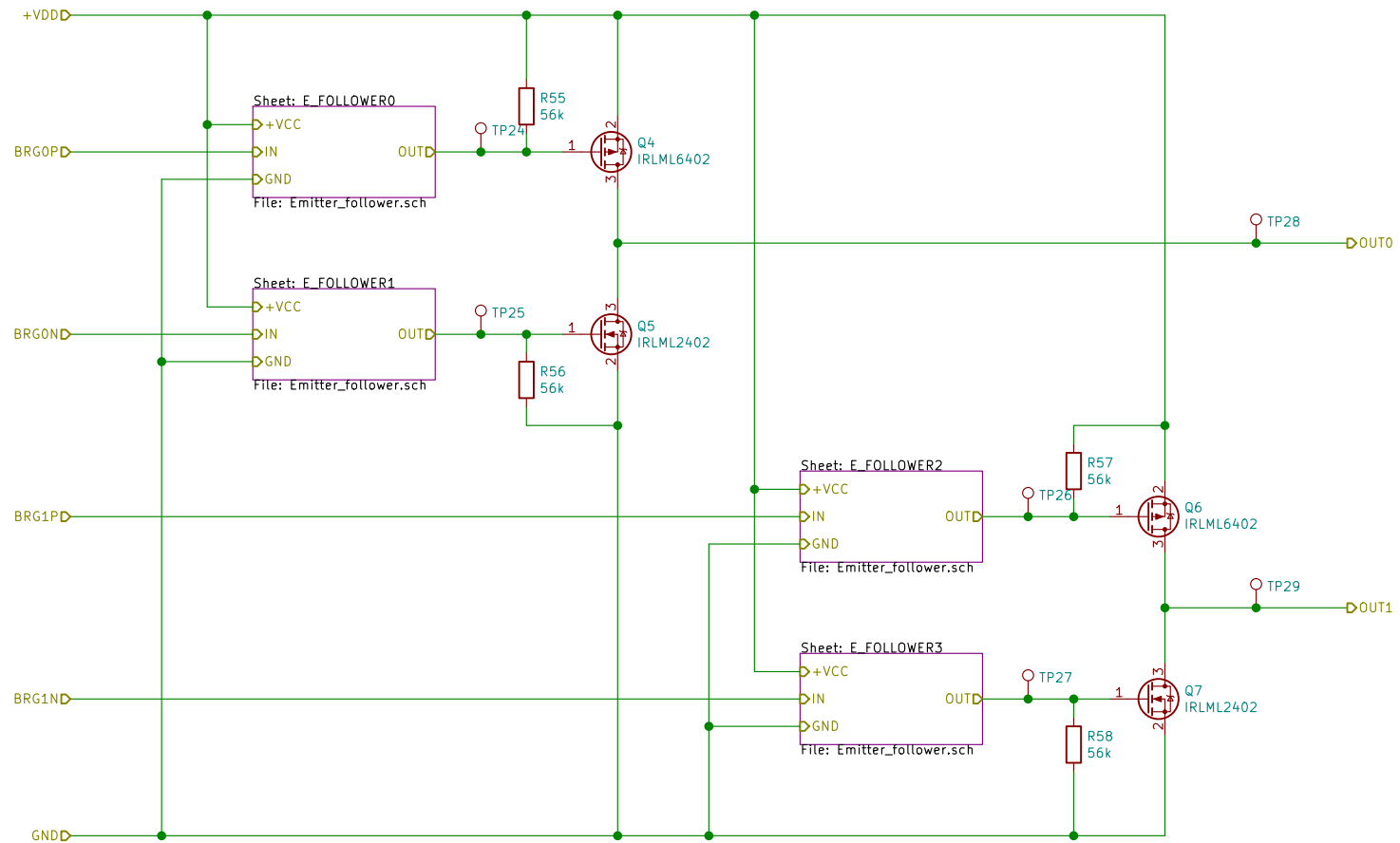
Size: A4	Date: 2021-09-25
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Rev: 1.0

Id: 16/23

Heater power H-bridge



Yuriy Volkov

Sheet: /VFD_HEATER/
File: VFD_heater.sch

Title: rata

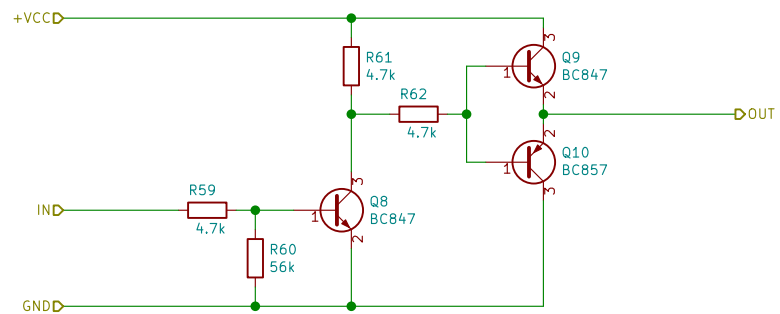
Size: A4
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Date: 2021-09-25

Rev: 1.0

Id: 17/23

Double emitter follower



Yuriy Volkov

Sheet: /VFD_HEATER/E_FOLLOWER0/

File: Emitter_follower.sch

Title: rata

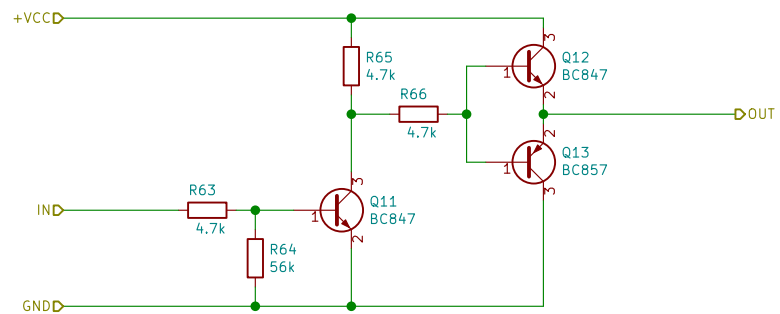
Size: A4 Date: 2021-09-25

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.0

Id: 18/23

Double emitter follower



Yuriy Volkov

Sheet: /VFD_HEATER/E_FOLLOWER1/

File: Emitter_follower.sch

Title: rata

Size: A4

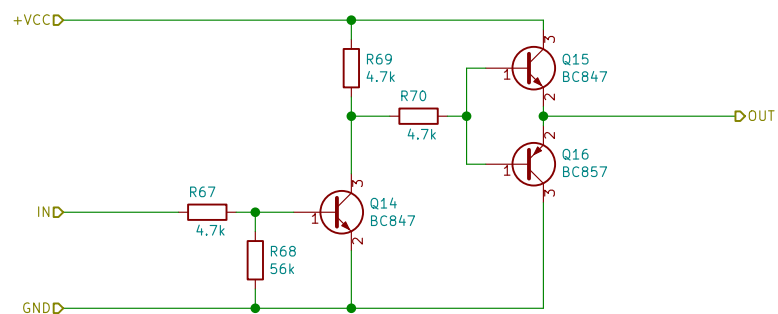
Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 19/23

Double emitter follower



Yuriy Volkov

Sheet: /VFD_HEATER/E_FOLLOWER2/

File: Emitter_follower.sch

Title: rata

Size: A4

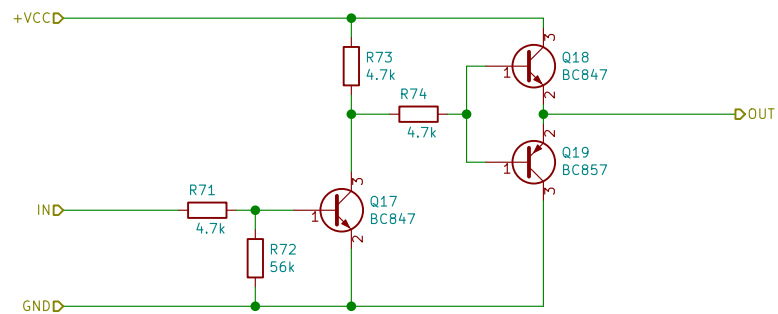
Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 20/23

Double emitter follower



Yuriy Volkov

Sheet: /VFD_HEATER/E_FOLLOWER3/

File: Emitter_follower.sch

Title: rata

Size: A4

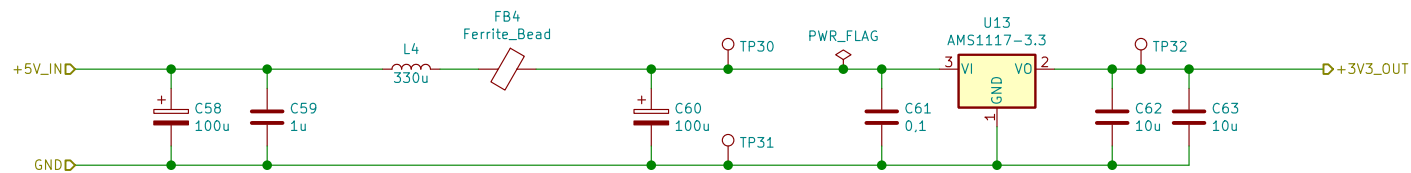
Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 21/23

Power source +3V3 analog



Yuriy Volkov

Sheet: /+3V3A/

File: Power_+3V3A.sch

Title: rata

Size: A4

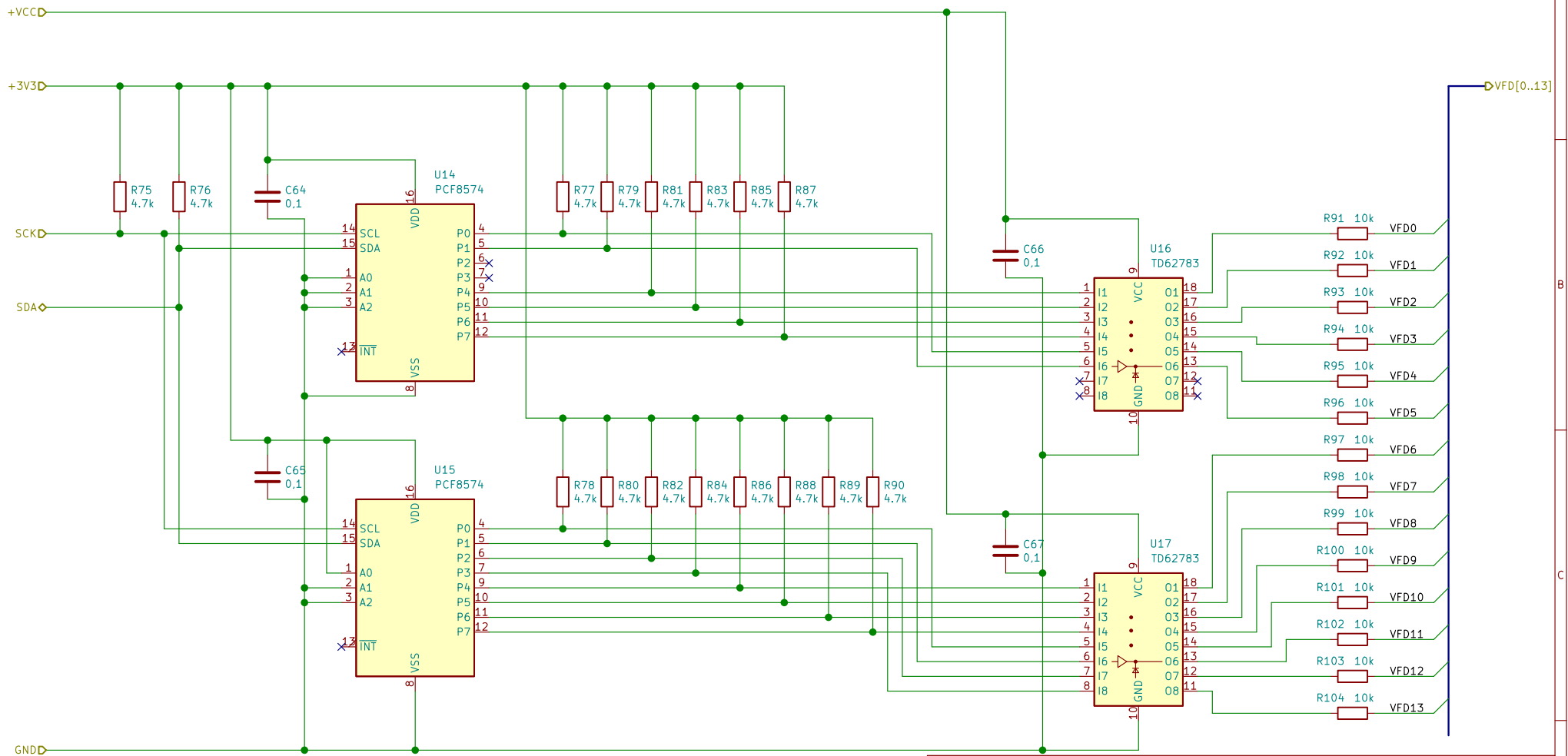
Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 22/23

VFD (vacuum fluorescent display) control circuit



Yuriy Volkov

Sheet: /VFD_DRIVER/

File: VFD_driver.sch

Title: rata

Size: A4

Date: 2021-09-25

Rev: 1.0

KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Id: 23/23