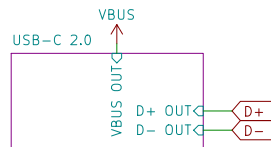
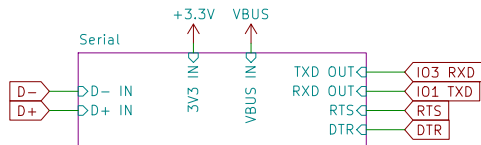


## USB-C (2.0)



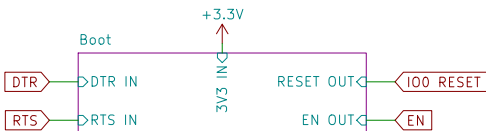
File: usb.kicad\_sch

## SERIAL



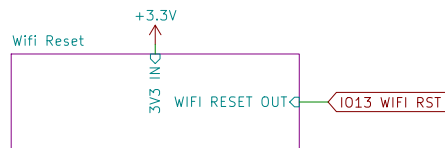
File: serial.kicad\_sch

## EN / BOOT



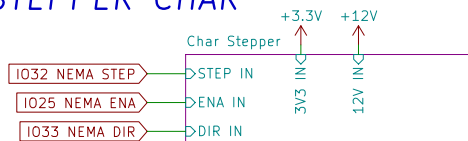
File: boot.kicad\_sch

## WIFI RESET



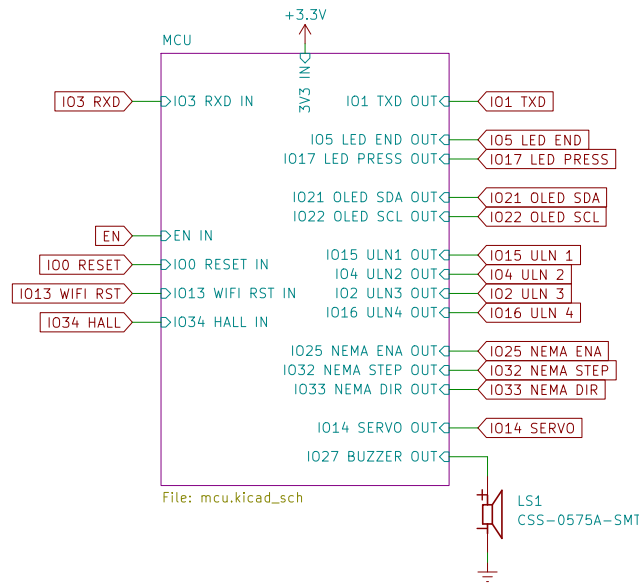
File: wifireset.kicad\_sch

## STEPPER CHAR



File: charstepper.kicad\_sch

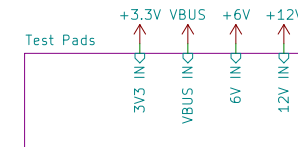
## ESP32



File: mcu.kicad\_sch

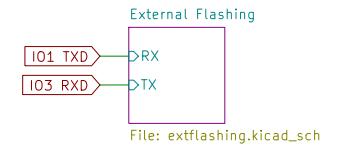


## TEST PADS



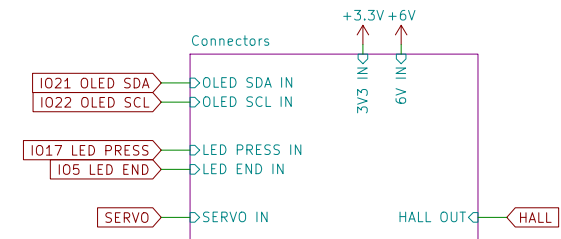
File: testpads.kicad\_sch

## EXT FLASHING



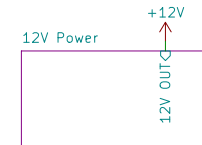
File: extflashing.kicad\_sch

## CONNECTORS

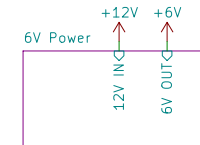


File: connectors.kicad\_sch

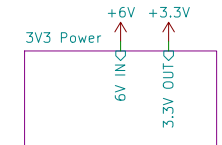
## POWER



File: power12v.kicad\_sch

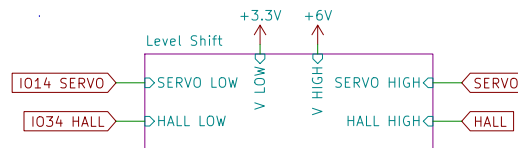


File: power6v.kicad\_sch



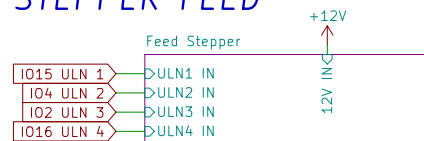
File: power3v3.kicad\_sch

## LEVEL SHIFT



File: levelshift.kicad\_sch

## STEPPER FEED



File: feedstepper.kicad\_sch

Andrei Speridiao

Sheet: /

File: e-tkt.kicad\_sch

Title: E-TKT

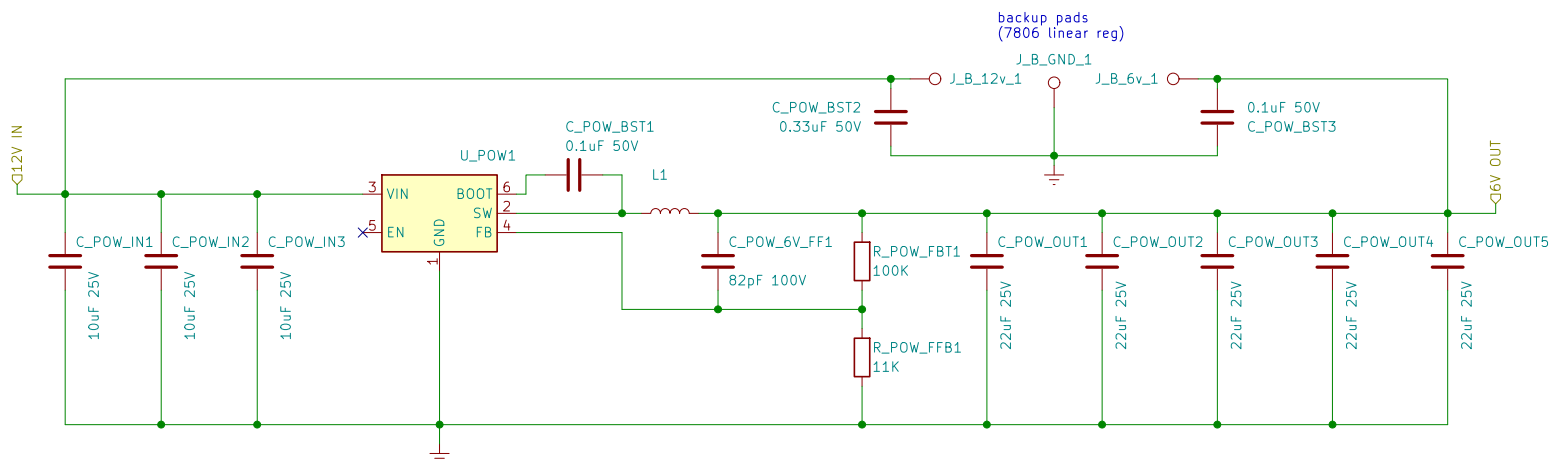
Size: A4 Date: 2022-07-21

KiCad E.D.A. kicad (6.0.6)

Rev: 3

Id: 1/15

# 6V POWER BUCK CONVERTER



Andrei Speridiao

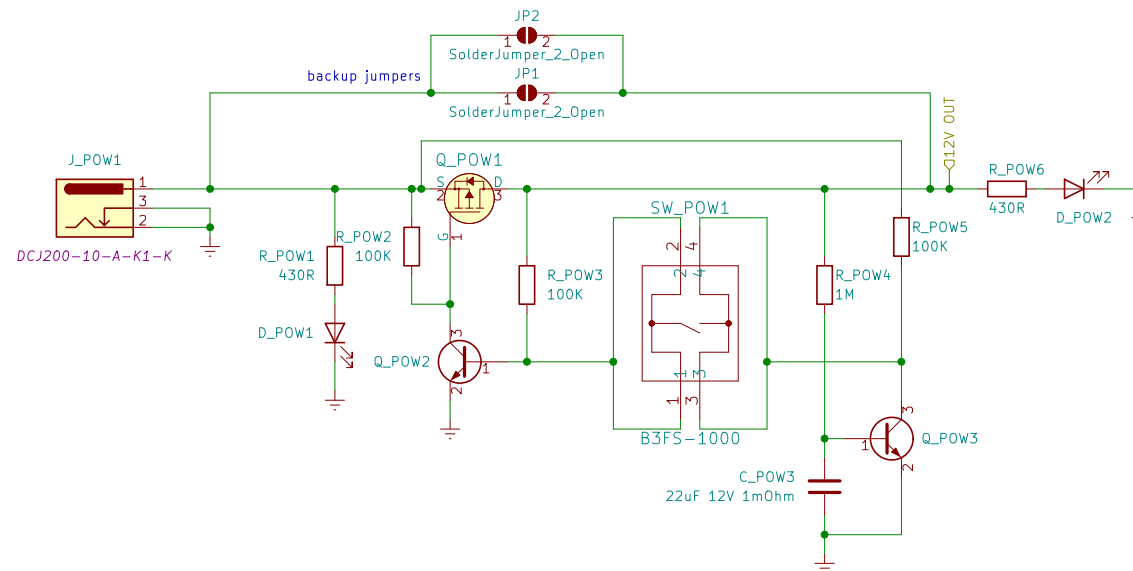
Sheet: /6V Power/  
File: power6v.kicad\_sch

**Title: E-TKT**

Size: A4 Date: 2022-07-21  
KiCad E.D.A. kicad (6.0.6)

**Rev: 3**  
Id: 2/15

# 12V POWER + LATCH SWITCH



Andrei Speridiao

Sheet: /12V Power/  
File: power12v.kicad\_sch

**Title: E-TKT**

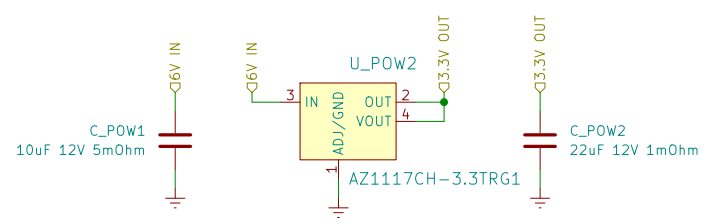
Size: A4 Date: 2022-07-21

KiCad E.D.A. kicad (6.0.6)

**Rev: 3**

Id: 3/15

# 3.3V POWER LINEAR REGULATOR



Andrei Speridiao		
Sheet: /3V3 Power/		
File: power3v3.kicad_sch		
Title: E-TKT		
Size: A4	Date: 2022-07-21	Rev: 3
KiCad E.D.A. kicad (6.0.6)		Id: 4/15

[illegible]

Sheet: /USB-C 2.0/  
File: usb.kicad\_sch

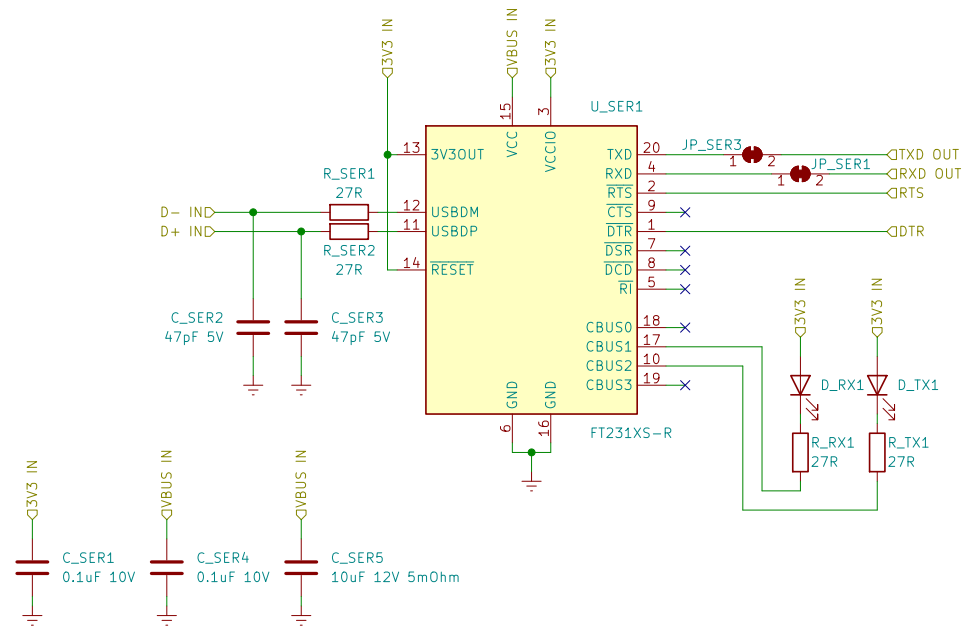
Size: A4

Date: 2022-07-21

Rev: 3

Id: 5/15

# SERIAL



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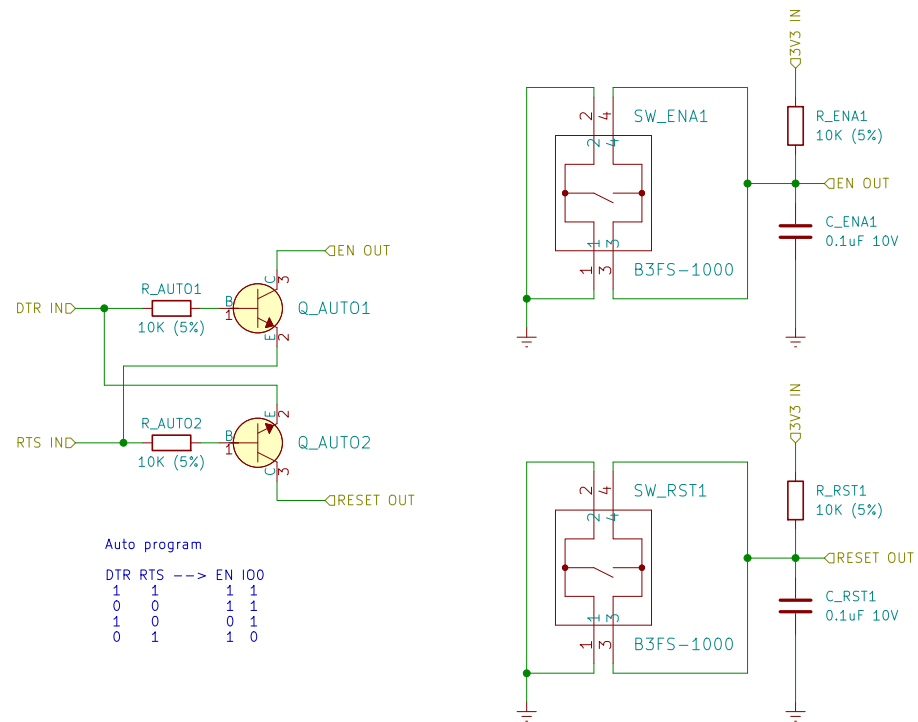
Sheet: /Serial/  
File: serial.kicad\_sch

**Title: E-TKT**

Size: A4 Date: 2022-07-21  
KiCad E.D.A. kicad (6.0.6)

**Rev: 3**  
Id: 6/15

# EN / BOOT



**Andrei Speridiao**

Sheet: /Boot/  
File: boot.kicad\_sch

**Title: E-TKT**

Size: A4 Date: 2022-07-21  
KiCad E.D.A. kicad (6.0.6)

**Rev: 3**  
Id: 7/15

ESP32-WROOM-32

U\_MCU1

EN IND 3 EN

SENSOR\_VP 4

SENSOR\_VN 5

SDO/SD0 21

SDI/SD1 22

SHD/SD2 17

SWP/SD3 18

SCK/CLK 20

SCS/CMD 19

VDD 2

GND 1

I00 25

I01 35

I02 24

I03 34

I04 26

I05 29

I06 14

I07 16

I08 13

I09 23

I10 27

I11 28

I12 30

I13 31

I14 33

I15 36

I16 37

I17 10

I18 11

I19 12

I20 8

I21 9

I22 6

I23 7

I24 25

I25 35

I26 24

I27 34

I28 26

I29 29

I30 14

I31 16

I32 13

I33 23

I34 27

I35 28

I00 RESET IN

I01 TXD OUT

I02 ULN3 OUT

I03 RXD IN

I04 ULN2 OUT

I05 LED END OUT

I06 WIFI RST IN

I07 SERVO OUT

I08 ULN1 OUT

I09 ULN4 OUT

I10 LED PRESS OUT

I11

I12

I13

I14

I15

I16

I17

I18

I19

I20 OLED SDA OUT

I21 OLED SCL OUT

I22

I23

I24

I25 NEMA ENA OUT

I26

I27 BUZZER OUT

I28

I29 NEMA STEP OUT

I30 NEMA DIR OUT

I31

I32 HALL IN

I33

I34

I35

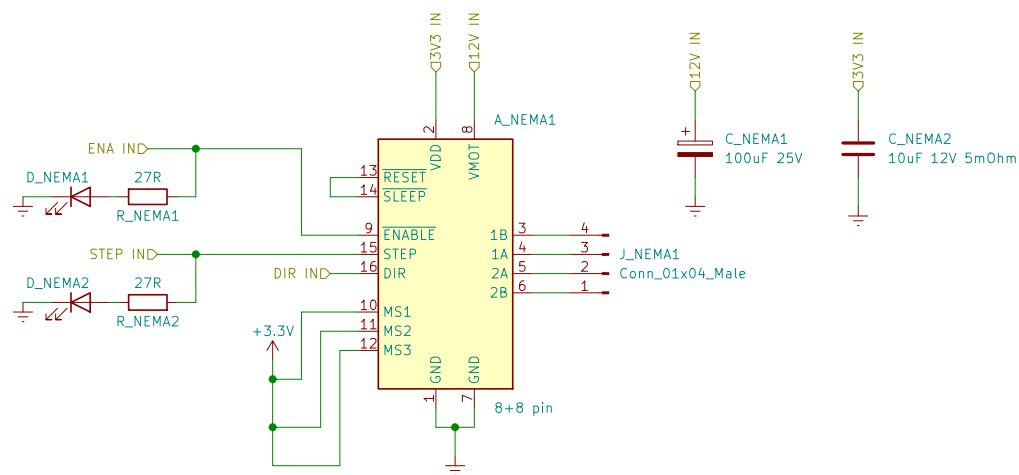
C\_MCU2 22uF 12V 1mOhm

C\_MCU1 0.1uF 10V

Id: 8/15



# STEPPER CHAR



Andrei Speridiao

Sheet: /Char Stepper/  
File: charstepper.kicad\_sch

**Title: E-TKT**

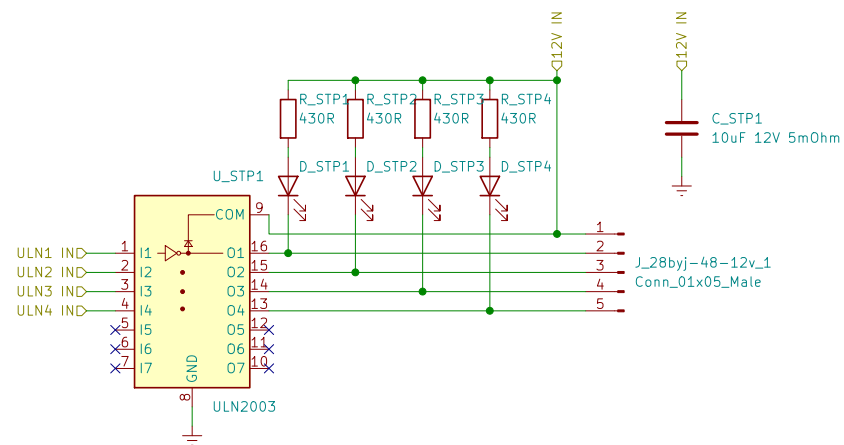
Size: A4 Date: 2022-07-21

KiCad E.D.A. kicad (6.0.6)

**Rev: 3**

Id: 9/15

# STEPPER FEED



Andrei Speridiao

Sheet: /Feed Stepper/  
File: feedstepper.kicad\_sch

Title: E-TKT

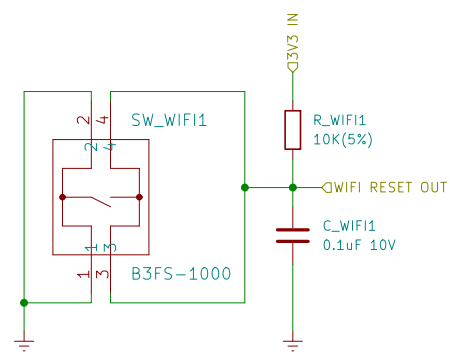
Size: A4 Date: 2022-07-21

KiCad E.D.A. kicad (6.0.6)

Rev: 3

Id: 10/15

# WIFI RESET



Andrei Speridiao

Sheet: /Wifi Reset/  
File: wifireset.kicad\_sch

**Title: E-TKT**

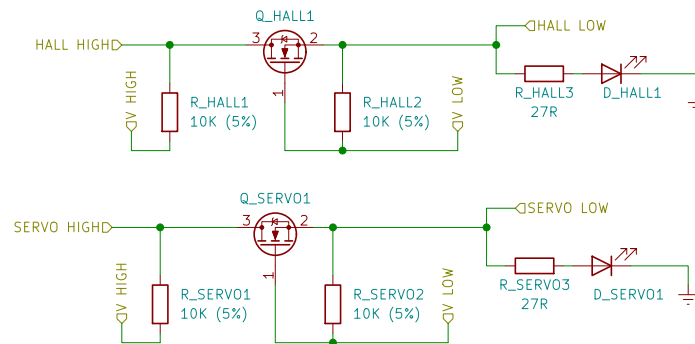
Size: A4 Date: 2022-07-21

KiCad E.D.A. kicad (6.0.6)

**Rev: 3**

Id: 11/15

# LEVEL SHIFT



Andrei Speridiao

Sheet: /Level Shift/  
File: levelshift.kicad\_sch

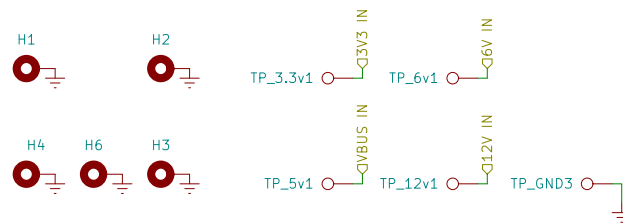
**Title: E-TKT**

Size: A4 Date: 2022-07-21

KiCad E.D.A. kicad (6.0.6)

**Rev: 3**  
Id: 12/15

# PADS / TESTING



**Andrei Speridiao**

Sheet: /Test Pads/

File: testpads.kicad\_sch

**Title: E-TKT**

Size: A4

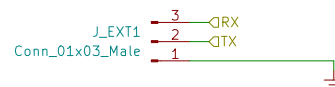
Date: 2022-07-21

**Rev: 3**

KiCad E.D.A. kicad (6.0.6)

Id: 13/15

# EXTERNAL FLASHING



**Andrei Speridiao**

Sheet: /External Flashing/  
File: extflashing.kicad\_sch

**Title: E-TKT**

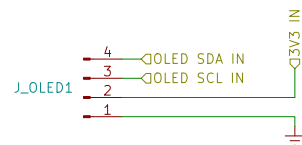
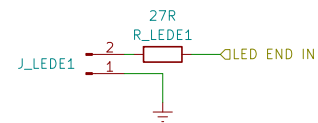
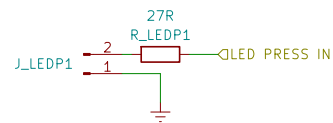
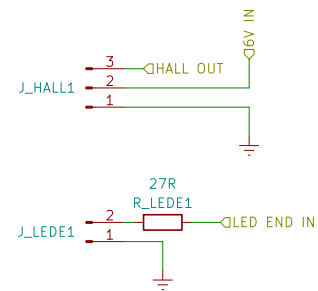
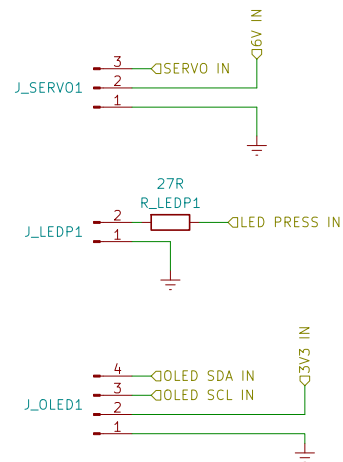
Size: A4 Date: 2022-07-21

KiCad E.D.A. kicad (6.0.6)

**Rev: 3**

Id: 14/15

# CONNECTORS



**Andrei Speridiao**

Sheet: /Connectors/

File: connectors.kicad\_sch

**Title: E-TKT**

Size: A4

Date: 2022-07-21

**Rev: 3**

KiCad E.D.A. kicad (6.0.6)

Id: 15/15