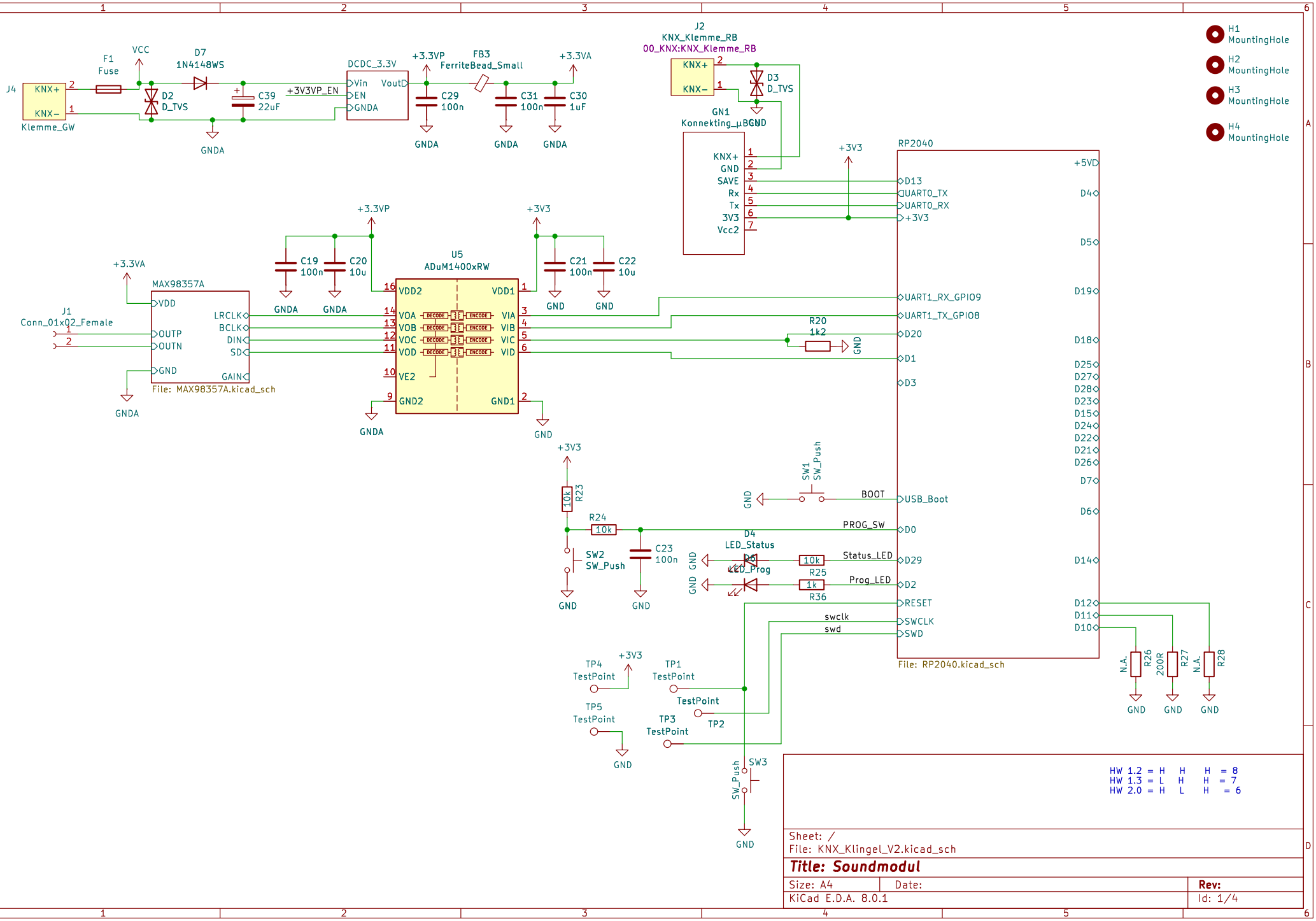
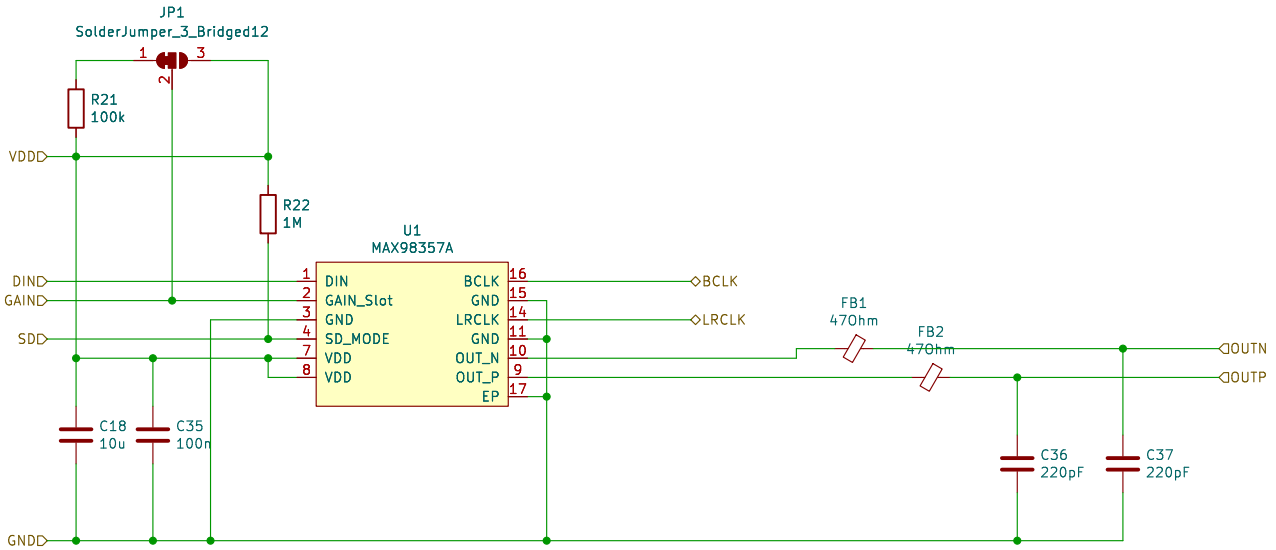

J4
KNX+
KNX−
Klemme_GW
F1
Fuse
VCC
D7
1N4148WS
D2
D_TVS
C39
22uF
GNDA
+3V3VP_EN
DCDC_3.3V
Vin
EN
GNDA
VoutD
+3.3VP
C29
100n
FB3
FerriteBead_Small
C31
100n
C30
1uF
+3.3VA
J2
KNX_Klemme_RB
00_KNX:KNX_Klemme_RB
D3
D_TVS
GN1
Konnekting_µBGND
KNX+
GND
SAVE
Rx
Tx
3V3
Vcc2
+3V3
RP2040
+5VD
D13
UART0_TX
UART0_RX
+3V3
D4
D5
D19
UART1_RX_GPIO9
UART1_TX_GPIO8
D18
D20
D1
D3
D25
D27
D28
D23
D15
D24
D22
D21
D26
D7
D6
D14
D12
D11
D10
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole
+3.3VP
C19
100n
C20
10u
U5
ADuM1400xRW
VDD2
VDD1
VOA
VOB
VOC
VOD
VE2
GND2
VIA
VIB
VIC
VID
GND1
C21
100n
C22
10u
+3.3VA
MAX98357A
VDD
OUTP
OUTN
GND
LRCLK
BCLK
DIN
SD
GAIN
File: MAX98357A.kicad_sch
J1
Conn_01x02_Female
R20
1k2
+3V3
R23
10k
R24
10k
SW2
SW_Push
C23
100n
SW1
SW_Push
BOOT
USB_Boot
PROG_SW
D0
D4
LED_Status
LED_Prog
10k
R25
1k
R36
Status_LED
Prog_LED
D29
D2
RESET
SWCLK
SWD
swclk
swd
TP4
TestPoint
TP5
TestPoint
TP1
TestPoint
TP2
TestPoint
TP3
TestPoint
SW3
SW_Push
N.A.
R26
200R
R27
N.A.
R28
File: RP2040.kicad_sch
HW 1.2 = H H H = 8
HW 1.3 = L H H = 7
HW 2.0 = H L H = 6
Sheet: /
File: KNX_Klingel_V2.kicad_sch
Title: Soundmodul
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.1
Id: 1/4



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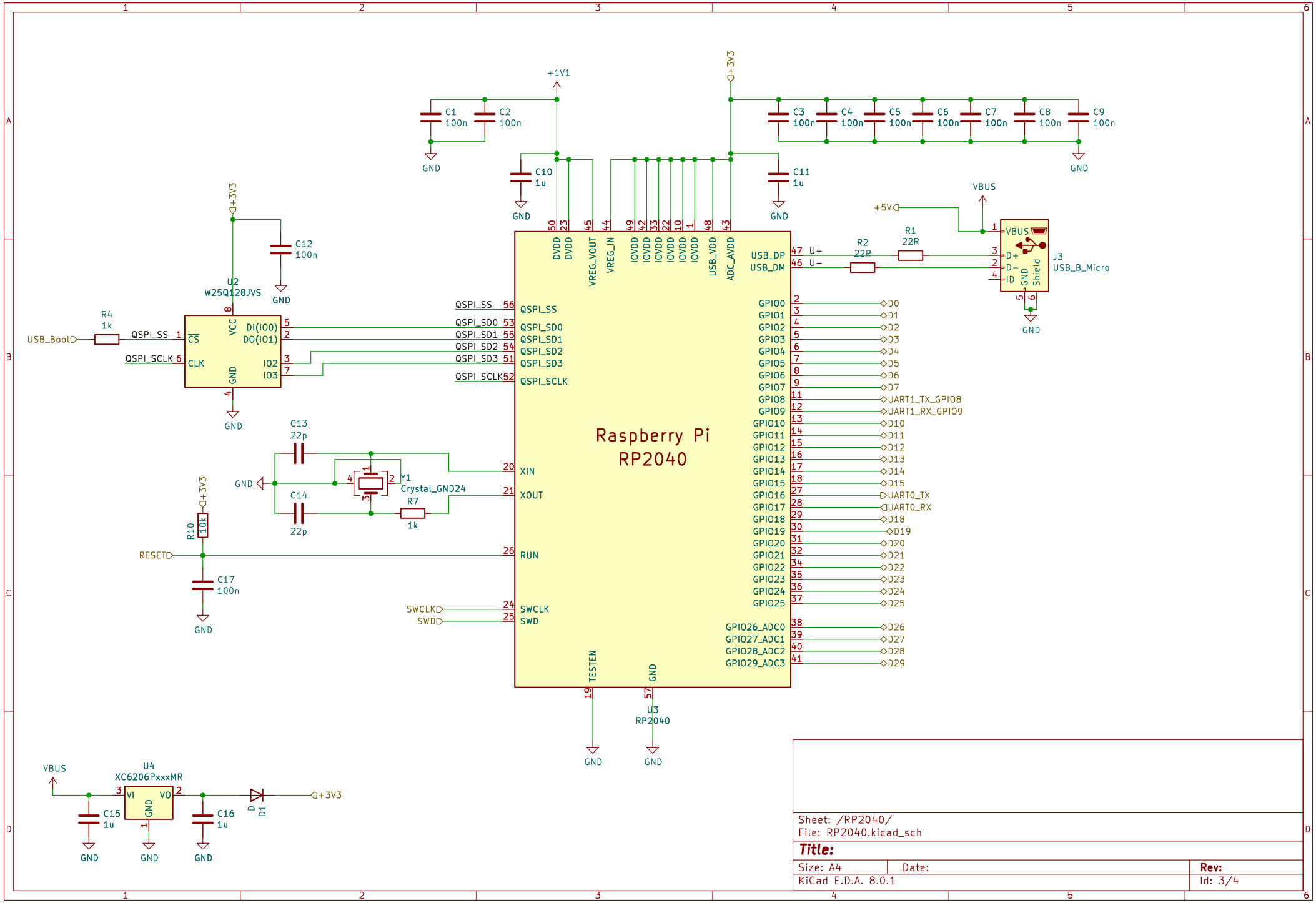
KiCad E.D.A. 8.0.1		Id: 2/4


Raspberry Pi
RP2040
U3
RP2040
U2
W25Q128JVS
U4
XC6206PxxxMR
J3
USB_B_Micro
Y1
Crystal_GND24
D1
+1V1
+3V3
+5V
VBUS
GND
C1 100n
C2 100n
C3 100n
C4 100n
C5 100n
C6 100n
C7 100n
C8 100n
C9 100n
C10 1u
C11 1u
C12 100n
C13 22p
C14 22p
C15 1u
C16 1u
C17 100n
R1 22R
R2 22R
R4 1k
R7 1k
R10 10k
USB_Boot
RESET
SWCLK
SWD
QSPI_SS
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
QSPI_SCLK
XIN
XOUT
RUN
TESTEN
USB_DP
USB_DM
U+
U−
D+
D−
ID
Shield
UART1_TX_GPIO8
UART1_RX_GPIO9
UART0_TX
UART0_RX
Sheet: /RP2040/
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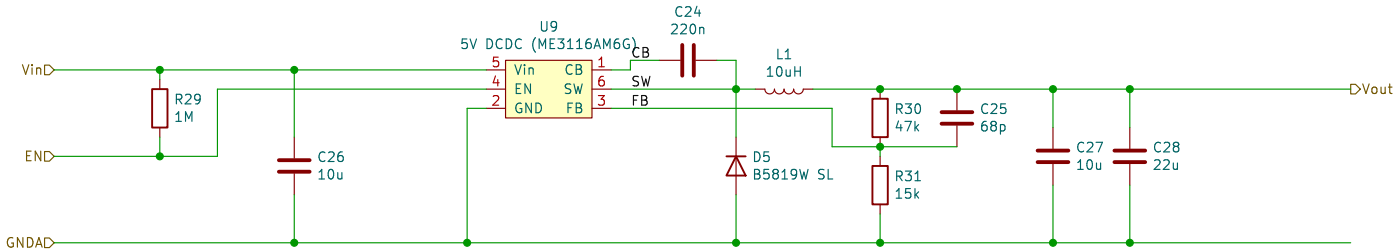
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.1
Id: 3/4



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Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.1		Id: 4/4