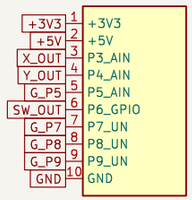
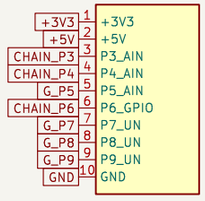
CONNECTORS

J1



A IN

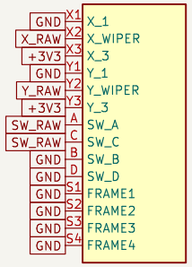
J2



A CHAIN

SENSORS AND TRANSDUCERS

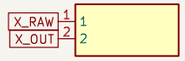
RV1



RKJXV1224005 10K

PASSIVES AND INDICATORS

R1



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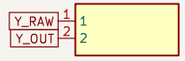
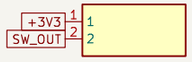
R2



1k 1%

R3



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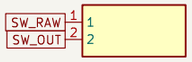
R4



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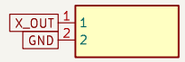
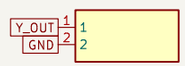
C1



10nF 50V X7R

C2



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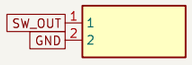
C3



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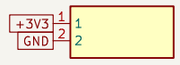
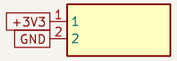
C4



100nF 50V X7R

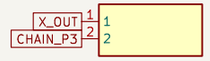
C5



10uF 16V X5R

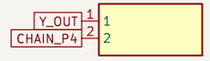
SOLDER LINKS

JP3



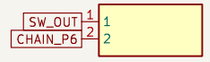
CHAIN P3 OPEN

JP4



CHAIN P4 OPEN

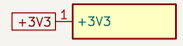
JP6



CHAIN P6 OPEN

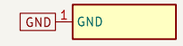
TEST PADS

TP1



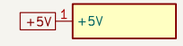
+3V3

TP2



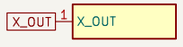
GND

TP3



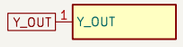
+5V

TP4



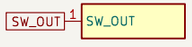
X_OUT

TP5



Y_OUT

TP6



SW_OUT

X = pin 3, Y = pin 4, switch = pin 6 (active low). Chain links JP3, JP4, JP6 ship open.

Open hardware
License: CERN-OHL-S-2.0

Smoothieware extension boards

Sheet: /
File: joystick-breakout.kicad_sch

Title: Thumb Joystick Breakout

Size: User	Date: 2026-11-26	**Rev: v01**
KiCad E.D.A. 9.0.8		Id: 1/1