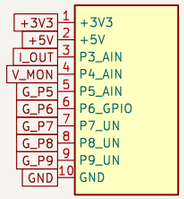
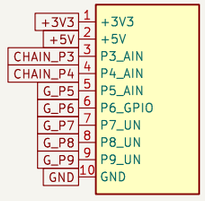
CONNECTORS

J1



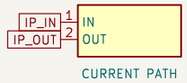
A IN

J2



A CHAIN

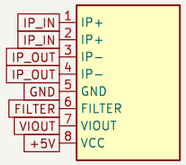
J3



CURRENT PATH

SENSORS AND TRANSDUCERS

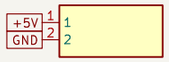
U1



ACS712ELCTR-20A-T

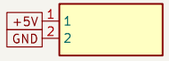
PASSIVES AND INDICATORS

C1



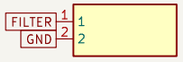
100nF 50V X7R

C2



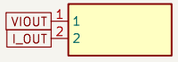
1uF 16V X7R

C3



10nF 50V X7R

R1



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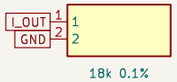
R2



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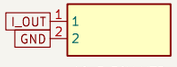
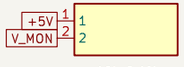
C4



10nF 50V X7R

R3



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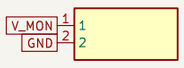
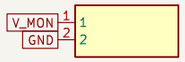
R4



18k 0.1%

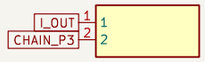
C5



100nF 50V X7R

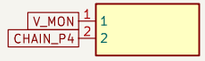
SOLDER LINKS

JP3



CHAIN P3 OPEN

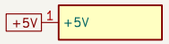
JP4



CHAIN P4 OPEN

TEST PADS

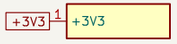
TP1



TP2



TP3



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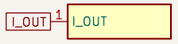
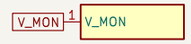


TP5



V_MON

30 V DC maximum, 15 A continuous design target, never mains. Links JP3 and JP4 ship open.

Open hardware
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Smoothieware extension boards

Sheet: /
File: acs712-current-sensor.kicad_sch

Title: ACS712 Current Sensor

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