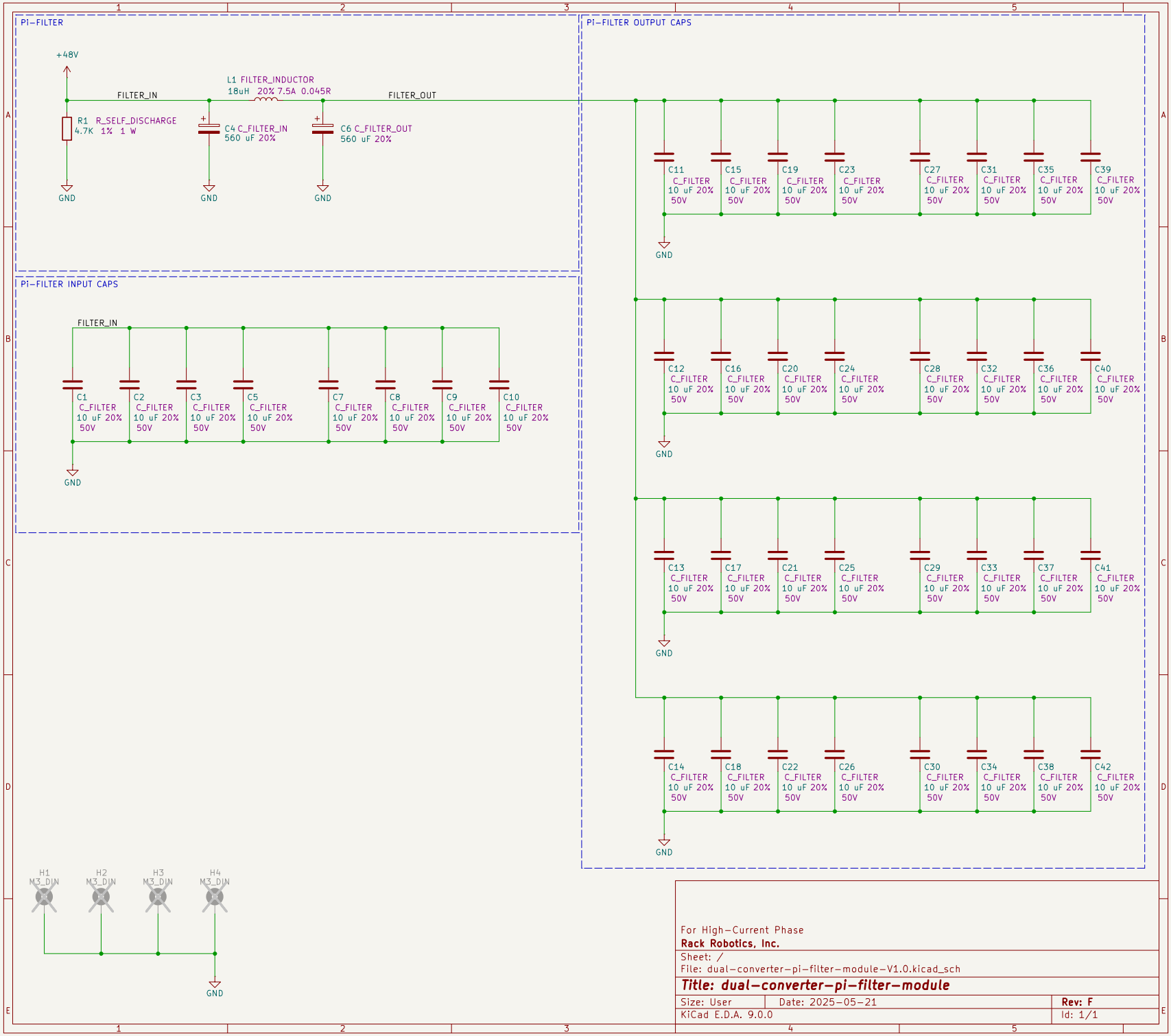
Pi-FILTER
+48V
FILTER_IN
L1 FILTER_INDUCTOR
18uH 20% 7.5A 0.045R
FILTER_OUT
R1 R_SELF_DISCHARGE
4.7K 1% 1 W
C4 C_FILTER_IN
560 uF 20%
C6 C_FILTER_OUT
560 uF 20%
GND
Pi-FILTER INPUT CAPS
FILTER_IN
C1 C_FILTER 10 uF 20% 50V
C2 C_FILTER 10 uF 20% 50V
C3 C_FILTER 10 uF 20% 50V
C5 C_FILTER 10 uF 20% 50V
C7 C_FILTER 10 uF 20% 50V
C8 C_FILTER 10 uF 20% 50V
C9 C_FILTER 10 uF 20% 50V
C10 C_FILTER 10 uF 20% 50V
Pi-FILTER OUTPUT CAPS
C11 C_FILTER 10 uF 20% 50V
C15 C_FILTER 10 uF 20% 50V
C19 C_FILTER 10 uF 20% 50V
C23 C_FILTER 10 uF 20% 50V
C27 C_FILTER 10 uF 20% 50V
C31 C_FILTER 10 uF 20% 50V
C35 C_FILTER 10 uF 20% 50V
C39 C_FILTER 10 uF 20% 50V
C12 C_FILTER 10 uF 20% 50V
C16 C_FILTER 10 uF 20% 50V
C20 C_FILTER 10 uF 20% 50V
C24 C_FILTER 10 uF 20% 50V
C28 C_FILTER 10 uF 20% 50V
C32 C_FILTER 10 uF 20% 50V
C36 C_FILTER 10 uF 20% 50V
C40 C_FILTER 10 uF 20% 50V
C13 C_FILTER 10 uF 20% 50V
C17 C_FILTER 10 uF 20% 50V
C21 C_FILTER 10 uF 20% 50V
C25 C_FILTER 10 uF 20% 50V
C29 C_FILTER 10 uF 20% 50V
C33 C_FILTER 10 uF 20% 50V
C37 C_FILTER 10 uF 20% 50V
C41 C_FILTER 10 uF 20% 50V
C14 C_FILTER 10 uF 20% 50V
C18 C_FILTER 10 uF 20% 50V
C22 C_FILTER 10 uF 20% 50V
C26 C_FILTER 10 uF 20% 50V
C30 C_FILTER 10 uF 20% 50V
C34 C_FILTER 10 uF 20% 50V
C38 C_FILTER 10 uF 20% 50V
C42 C_FILTER 10 uF 20% 50V
H1 M3_DIN
H2 M3_DIN
H3 M3_DIN
H4 M3_DIN
For High-Current Phase
Rack Robotics, Inc.
Sheet: /
File: dual-converter-pi-filter-module-V1.0.kicad_sch
Title: dual-converter-pi-filter-module
Size: User
Date: 2025-05-21
Rev: F
KiCad E.D.A. 9.0.0
Id: 1/1