

External Power Source
No LiPo Charge Support: 3.2V – 13V
LiPo Charge Support: 7.5V – 13V

Power Source Configurations

1. External 5–12.5V
2. Internal Lilion Battery (3.2–4.2V)

If a linear regulator is installed, its minimum output voltage needs to be the greater of the Optional Aux. Control output minimum, and +5V.

Optional Linear Regulator

U203
TO-220 ADJ Reg.

$$V_{reg} = 1.25(1 + R2/R1)$$

High-Efficiency Boost Regulator

$$V_{boost} = 1.245 \times (1 + R3/R4)$$

R3 and R4 must be chosen such that 5V ≤ Vboost ≤ 10.5V

Processor and Clock Linear Regulators

U201
LP2985-3.3

U202
LP2985-3.3

OPTIONAL AUX CONTROL

U204
TPS22810DBVT

LiPo Charging Linear Regulator

U205
uA7805

Sheet: /Power Supply/
File: PowerSupply.kicad_sch

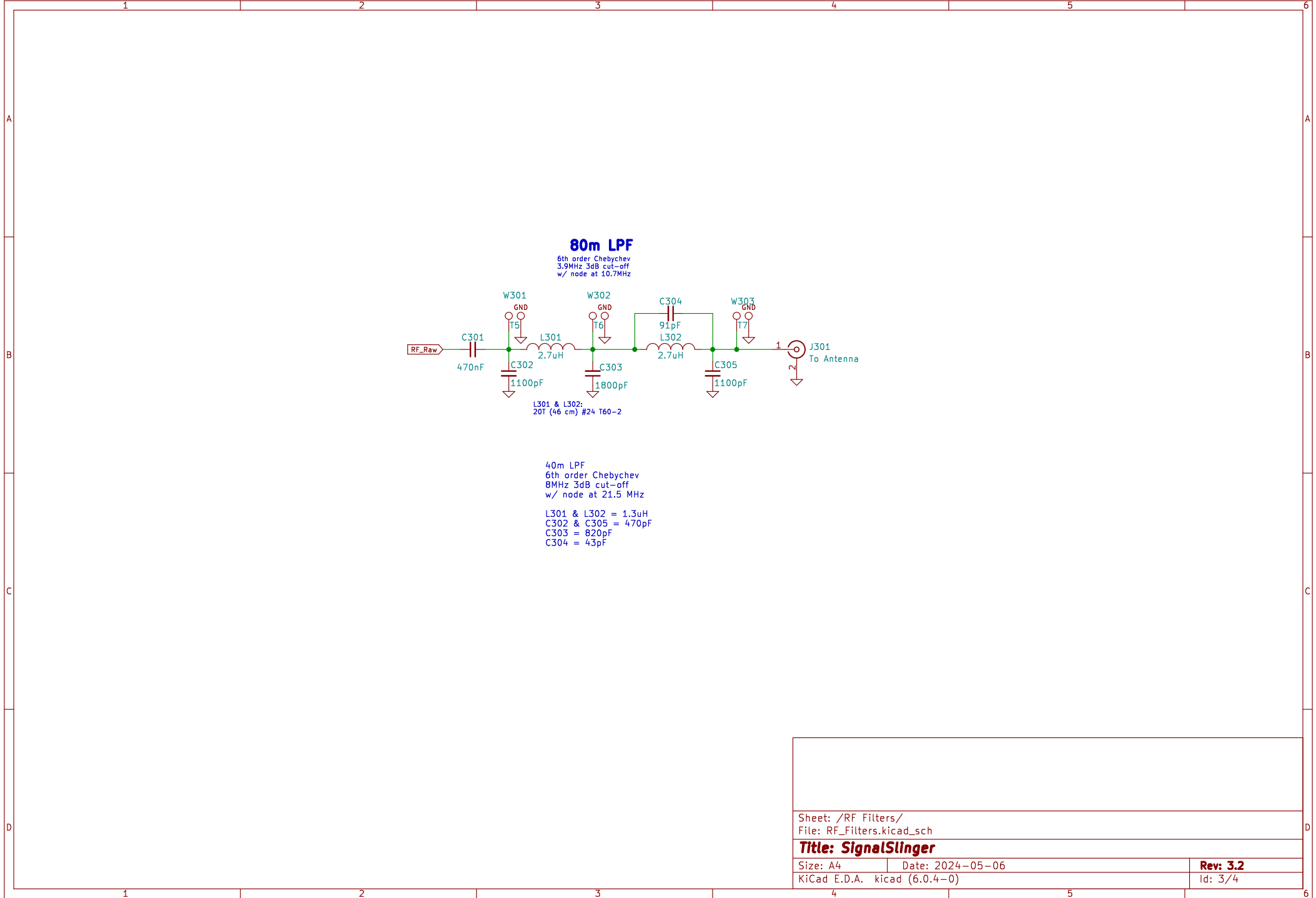
Title: SignalSlinger

Size: A4 Date: 2024-05-06

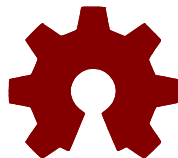
KiCad E.D.A. kicad (6.0.4-0)

Rev: 3.2

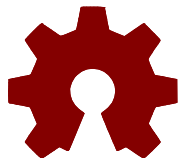
Id: 2/4



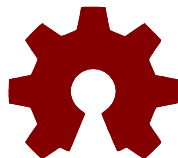
Core Product



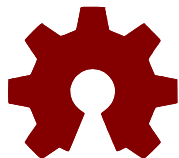
Chassis Box



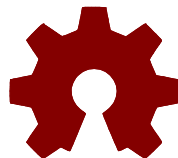
PCB Screws



LED Light Pipes



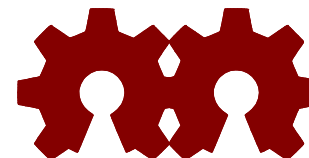
Magnet Wire for RF Inductors



PCB_AND_ASSEMBLY

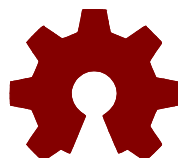


T0-220 Mounting Hardware

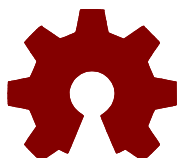


Shorting Jumper Shorting Jumper

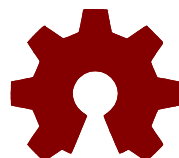
FTDI Support



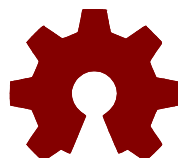
FTDI Cable



9POS Backshell



9-Pin D Male

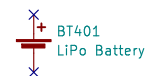


6-pin Angled Header

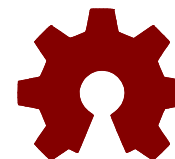


FTDI Adapter PCB

Internal Battery Support



BT401
LiPo Battery



LiPo Charger Module

Sheet: /Misc/
File: Misc.kicad_sch

Title: SignalSlinger

Size: A4 Date: 2024-05-06

KiCad E.D.A. kicad (6.0.4-0)

Rev: 3.2

Id: 4/4