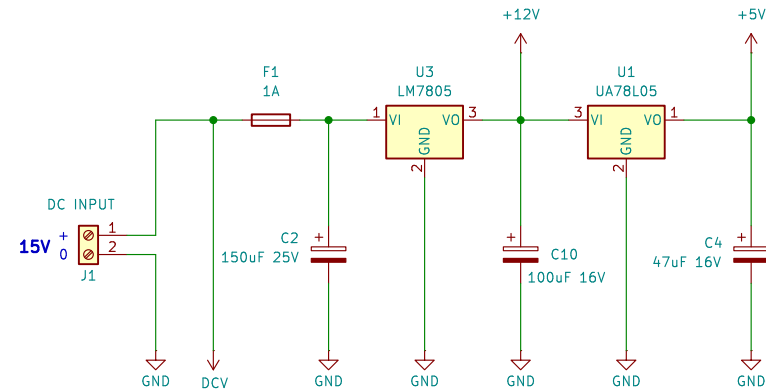
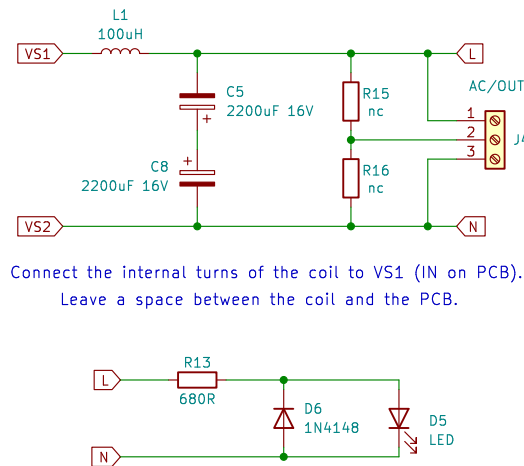


INPUT



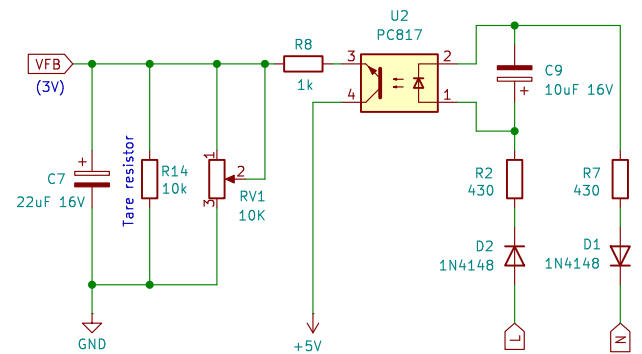
DC module input absolute voltage: 14V–24V

OUTPUT



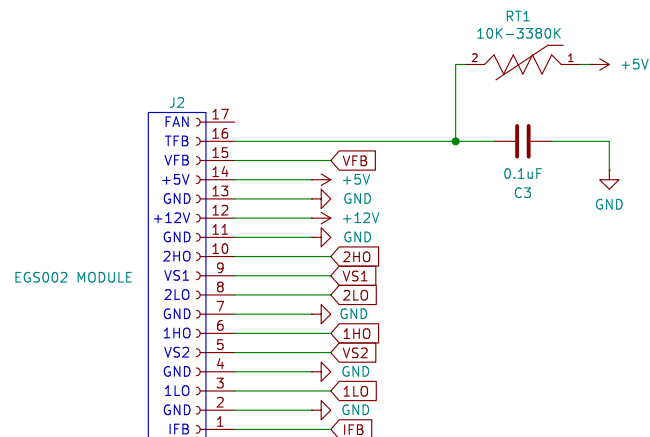
VOLTAGE AC FEEDBACK

Range: 4V – 8V

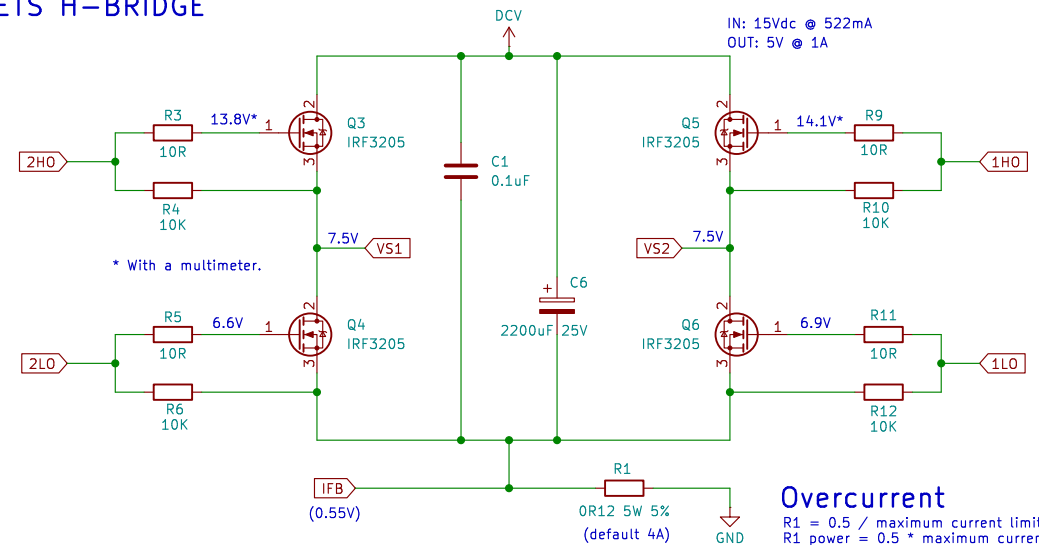


EGS002 MODULE

Headers receptacle for ESG002 module: 1x17 Harwin M20–7821746 (855–M20–7821746)



MOSFETS H-BRIDGE



FILTER COMPONENTS

C5 and C8: two polarized polymer capacitors connected in series, plus to plus.
2200uF = Mouser 647–RNL1C222MDS1PH – 470uF = Mouser 80–A758MU477M1CAAE10

Coils: Mundorf F2625, L2510 and L3020 body fits on the PCB.

Basic tube heating config (<1.5A): L1 = Mundorf BL71 0.1mH 0R23 – C8/C5: 2200uF (962uF) – f: 510Hz

For 5U4G (3A): L1 = Mundorf BL100 0.1mH 0R14 – C8/C5: 2200uF (962uF) – f: 510Hz

Direct heated triodes config (up to 1.5A)

For 300B (1.1A): L1 = Mundorf (B)H71 3.3mH 0R50 – C8/C5: 470uF (260uF) – f: 170Hz

For 300B (1.1A): L1 = Mundorf (B)H71 1.2mH 0R25 – C8/C5: 1500uF (720uF) – f: 170Hz

No load consumption: 45mA
SNR: 64dB with 3.3mH coil.
Distortion: <1%

By stef

Sheet: /

File: LVPS–DC–AC–Inverter–EGS.kicad_sch

Title: LVPS DC–AC 4V–8V 50Hz Inverter

Size: A4

Date: 2025–03–03

KiCad E.D.A. 8.0.8

Rev: 1.0.3b4

Id: 1/1