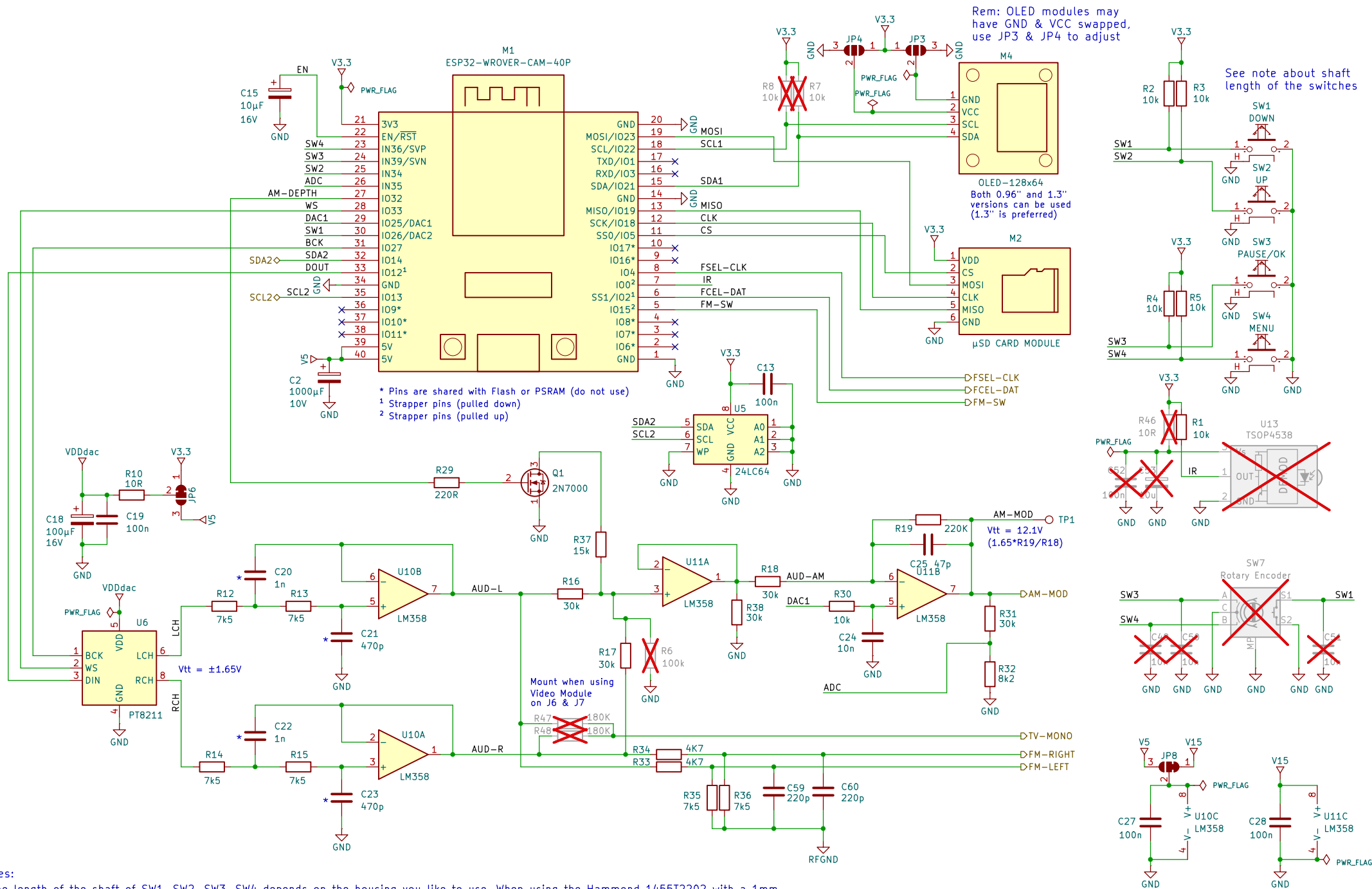


Sheet: PCBA Overview		
File: PLL_AM_OSC_1_7.kicad_sch		
Title: ESP32 Micro Radio Station		
Date: 2024-04-26		Rev: 1.7
KiCad E.D.A. 8.0.3	Size: A4	Id: 1/4



Notes:

- The length of the shaft of SW1, SW2, SW3, SW4 depends on the housing you like to use. When using the Hammond 1455T2202 with a 1mm thick front panel, the recommended length is 8mm. If you combine the front panel with the bezel, the recommended length is 10mm.
- Solder jumpers JP1, JP5, JP6, JP8, and JP9 are preset to the default value by a PCB track. If you want to change the jumper setting, you need to cut the default track with a sharp knife (like a box cutter), and then make the new connection with a drop of solder. The default setting of the each solder jumper is visible in the schematic symbol.
- Capacitors marked with a * are MKT or MKP types with a pin pitch of 5.08mm (0.2")

Sheet: ESP32, GUI, Audio, EEPROM
 File: 1 - ESP32.kicad_sch

Title: ESP32 Micro Radio Station

Date: 2024-04-26

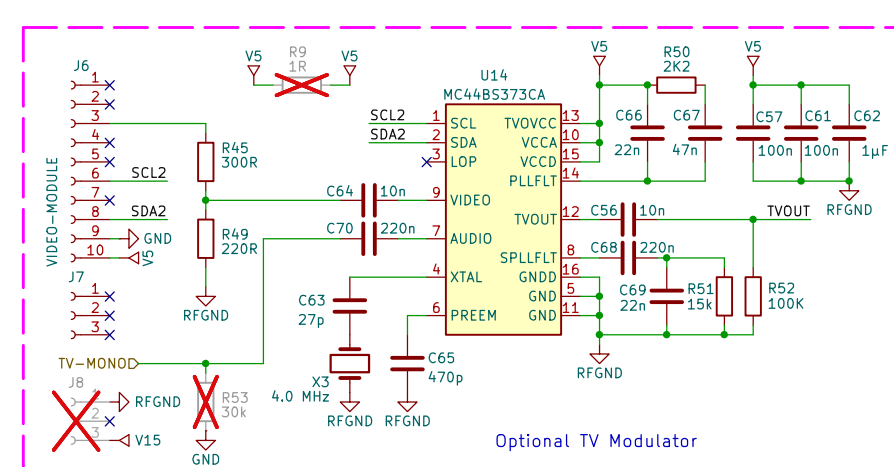
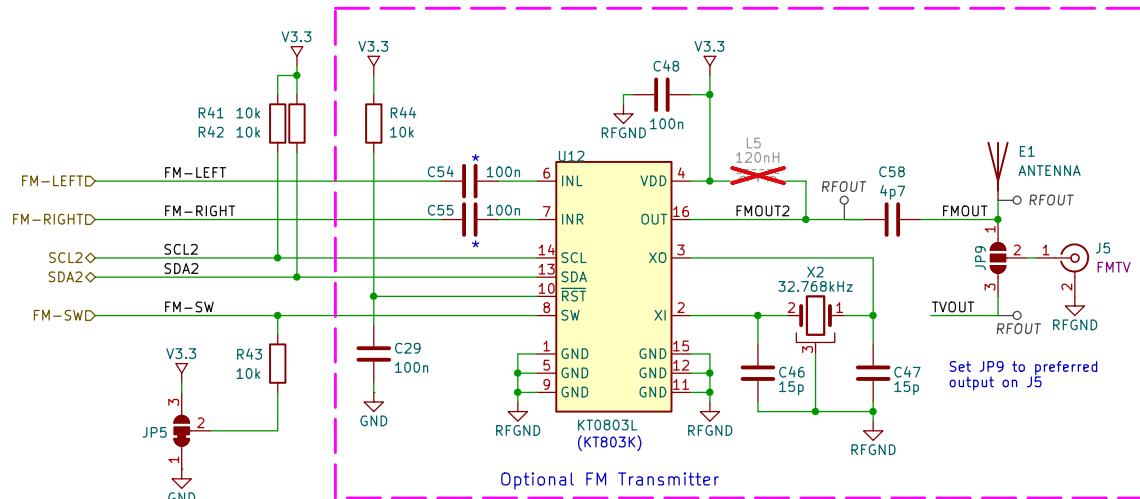
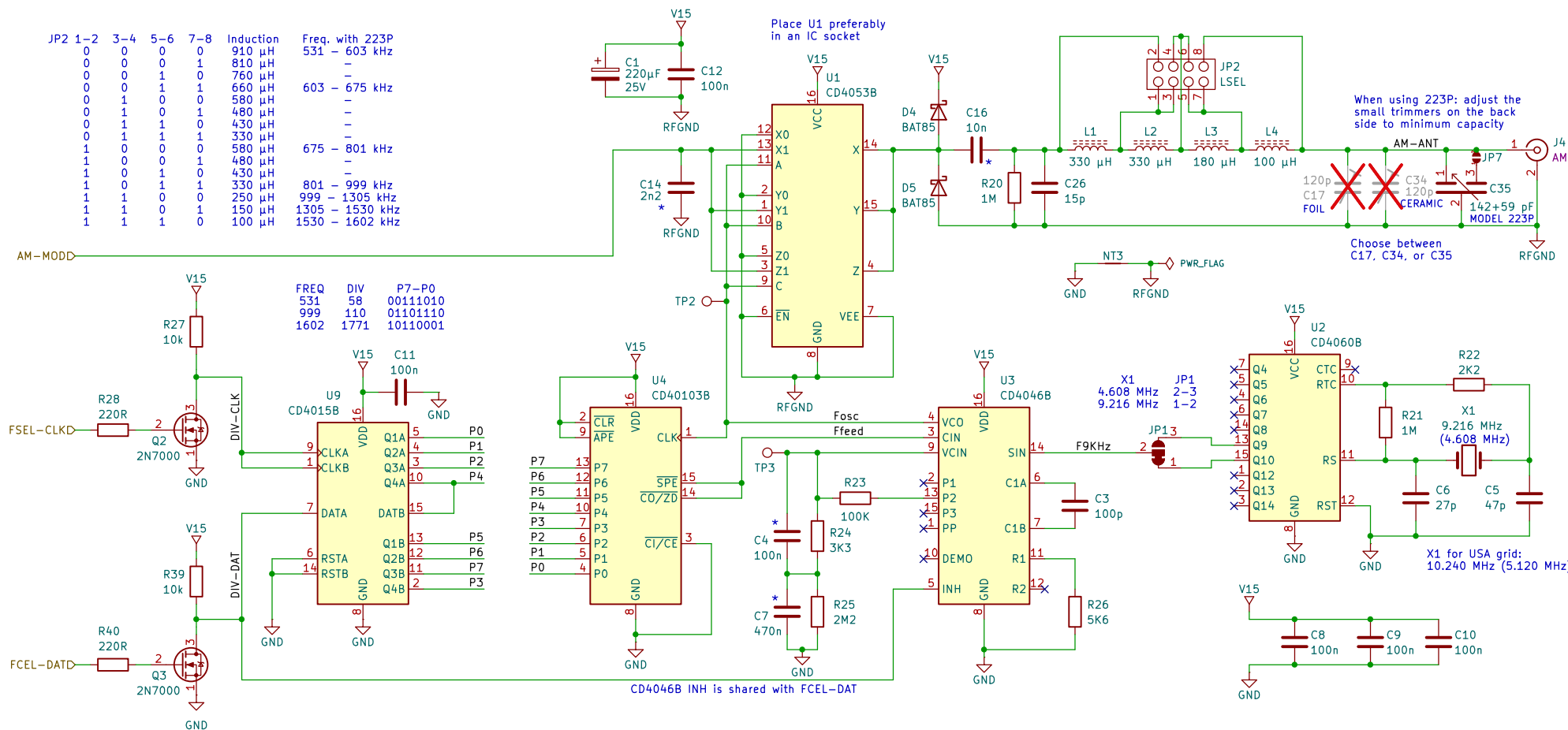
Rev: 1.7

KiCad E.D.A. 8.0.3

Size: A4

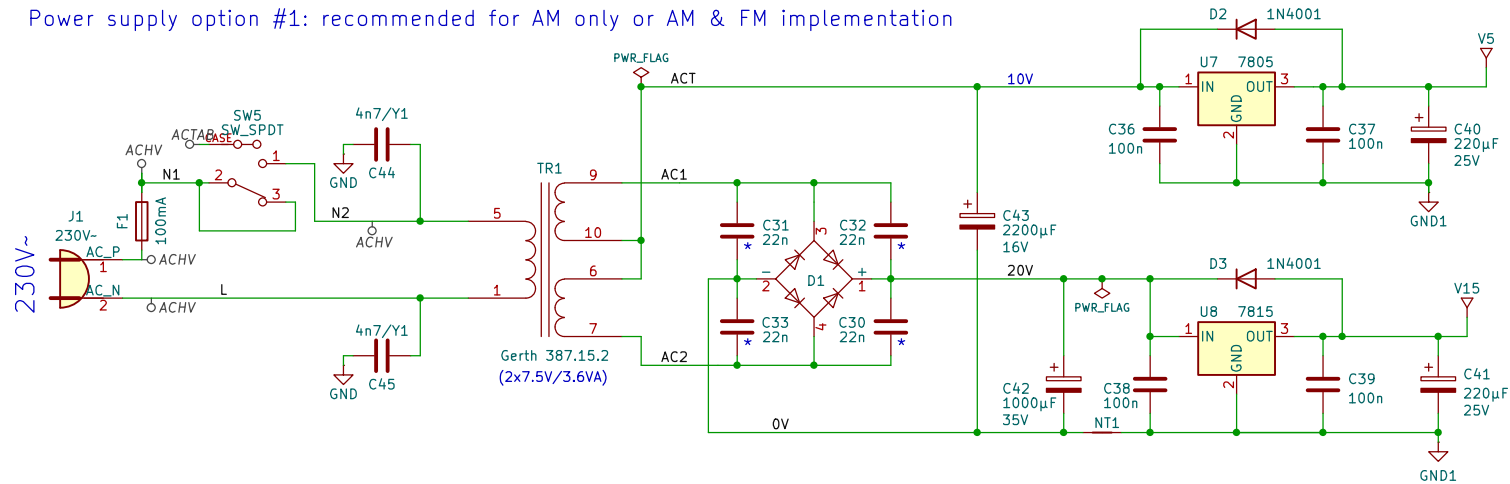
Id: 2/4

JP2	1-2	3-4	5-6	7-8	Induction	Freq. with 223P
0	0	0	0	0	910 μ H	531 - 603 kHz
0	0	0	0	1	810 μ H	-
0	0	0	1	0	760 μ H	-
0	0	0	1	1	660 μ H	603 - 675 kHz
0	1	0	0	0	580 μ H	-
0	1	0	1	0	480 μ H	-
0	1	1	0	0	430 μ H	-
0	1	1	1	0	330 μ H	-
1	0	0	0	0	580 μ H	675 - 801 kHz
1	0	0	1	0	480 μ H	-
1	0	0	1	1	430 μ H	-
1	0	1	1	1	330 μ H	801 - 999 kHz
1	1	0	0	0	250 μ H	999 - 1305 kHz
1	1	0	1	0	150 μ H	1305 - 1530 kHz
1	1	1	0	0	100 μ H	1530 - 1602 kHz

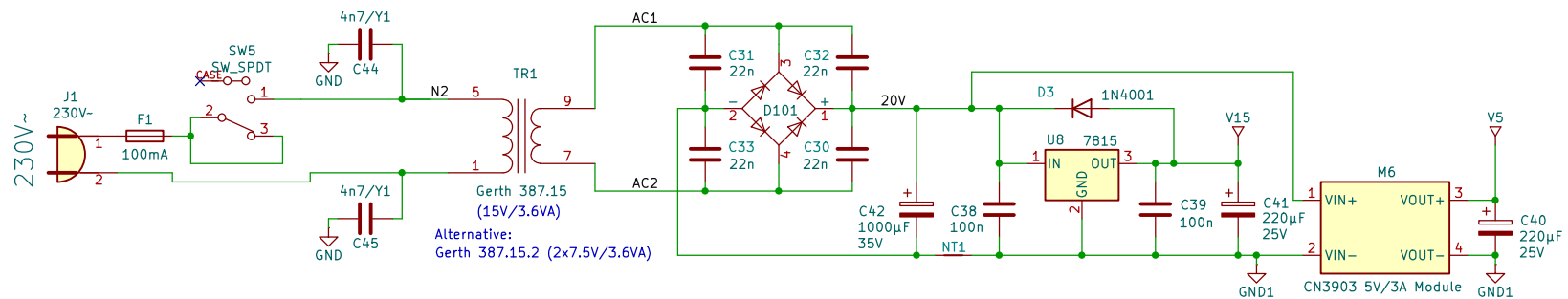


Note: Capacitors marked with a * are MKT or MKP types with a pin pitch of 5.08 mm (0.2")

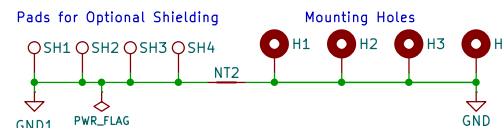
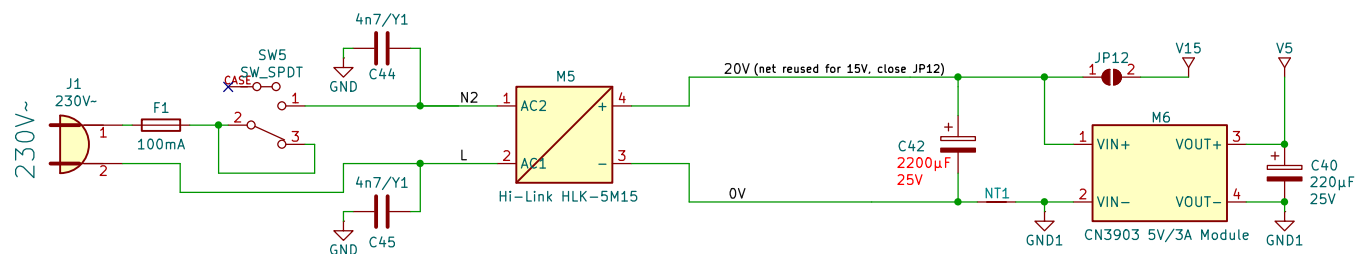
Power supply option #1: recommended for AM only or AM & FM implementation



Power supply option #2: recommended for video expansion



Power supply option #3: using Hi-Link 15V SMPS Module (can be used for all configurations)



Note: Capacitors marked with a * are MKT or MKP types with a pin pitch of 5.08 mm (0.2")

Sheet: Power Supply		
File: 3 - POWER SUPPLY.kicad_sch		
Title: ESP32 Micro Radio Station		
Date: 2024-04-26	Rev: 1.7	
KiCad E.D.A. 8.0.3	Size: A4	Id: 4/4