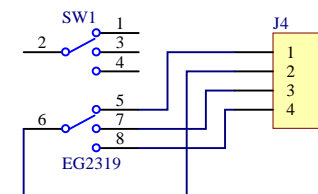
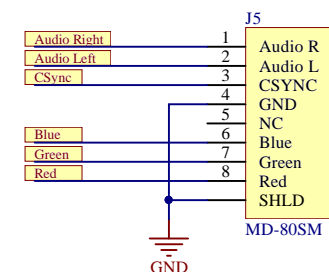


Switch Breakout

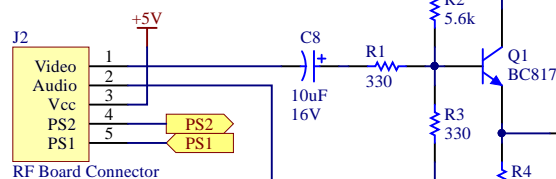


▲ Use this switch as the palette select for NES with RGB mod.

XRGB Mini DIN Connector



Motherboard Connector



▲ Resistor jumpers RJV and RJA allow you to use either the composite video and audio from the NES motherboard, or from an external source.

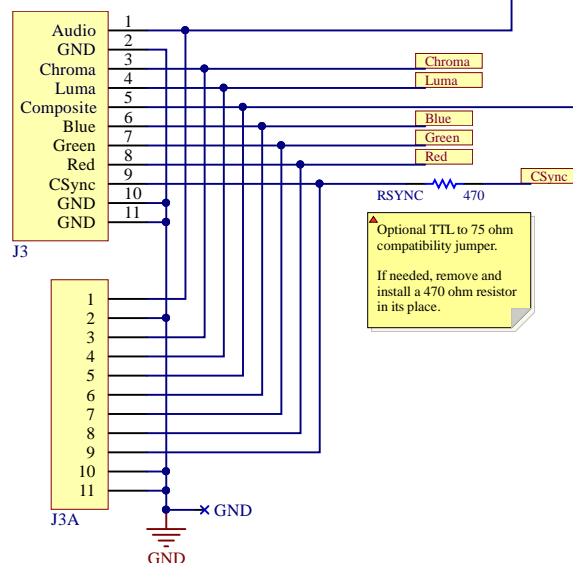
WARNING

THERE IS NO GROUND ON THE MOTHERBOARD CONNECTOR.

YOU MUST INSTALL A WIRE FROM ONE OF THE GROUNDS ON THIS BOARD TO THE GROUND PLANE ON THE MOTHERBOARD.

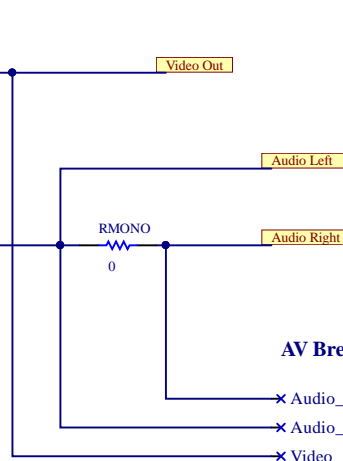
The original RF board used the metal box as a ground.

External Inputs



▲ Optional TTL to 75 ohm compatibility jumper. If needed, remove and install a 470 ohm resistor in its place.

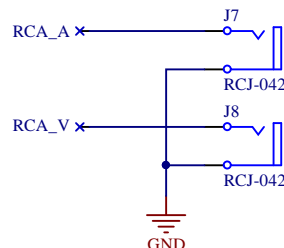
AV Breakout



▲ Some people like to perform "stereo" mods to their NES. If you wish to do so, leave RJA_INT and RJA_EXT unpopulated. Remove RMONO, and supply your own stereo audio wires into the breakout area below.

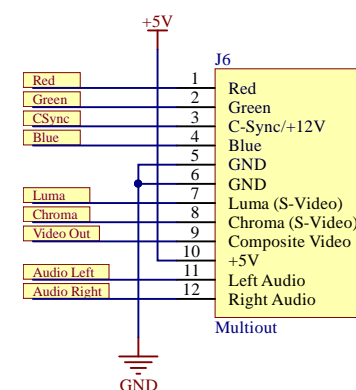
▲ Unless you are using RCA jacks, don't worry about this section.

RCA Jack Breakout



▲ Install jumpers between the AV breakout section and the RCA jack breakout section to use the RCA jacks. This will let you route audio or video anywhere you want.

RetroFixes Multiout Connector



Title **NES Power Entry Module (Version A)**

Size: Letter

Drawn By: M. Spinks

Revision: 2-5-0

Date: 12/3/2020

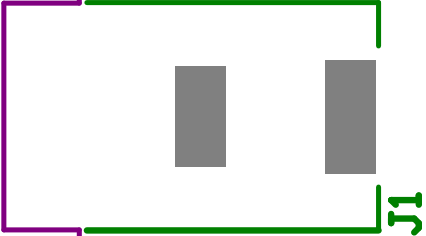
Time: 10:36:41 PM

Sheet 1 of 1

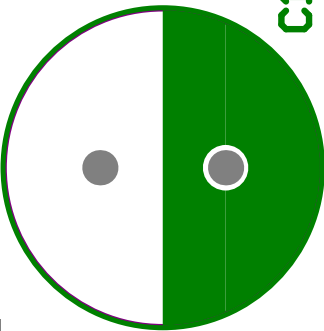
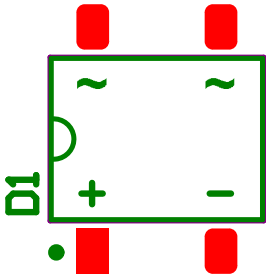
File: Power Board Schematic Ver A.SchDoc



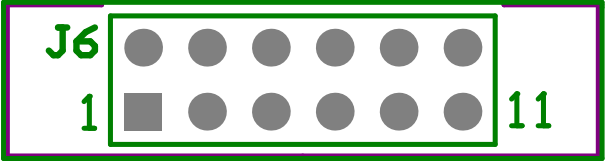
Spinks NES PEM (Ver.A)
rev 2-5-0
12/3/2020



9VAC

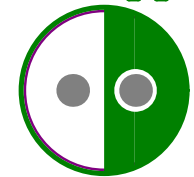


GND



J6

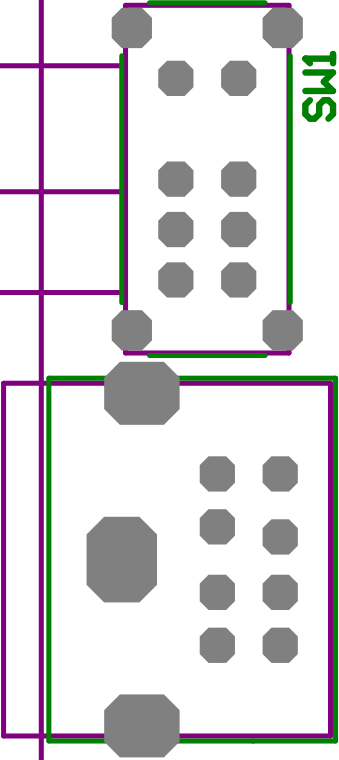
1



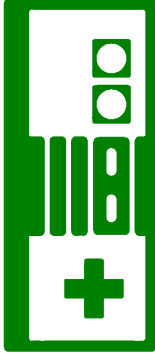
C3



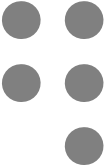
C2



J5

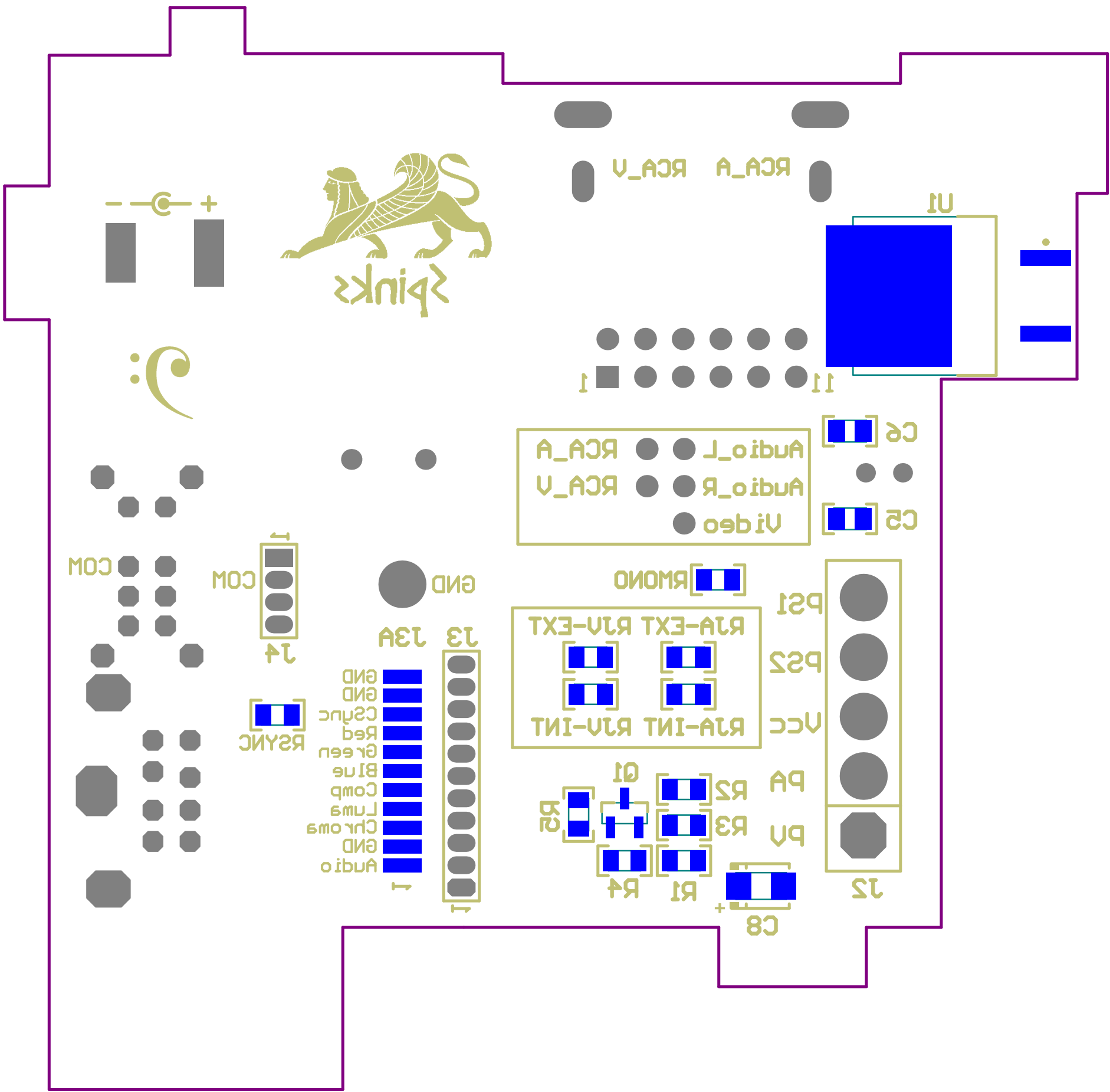


+



J8

J7



Spinks NES PEM (Ver.A)
rev 2-5-0
12/3/2020

9VAC

J1

D1

C1

J8

J7

C4

J6

1

11

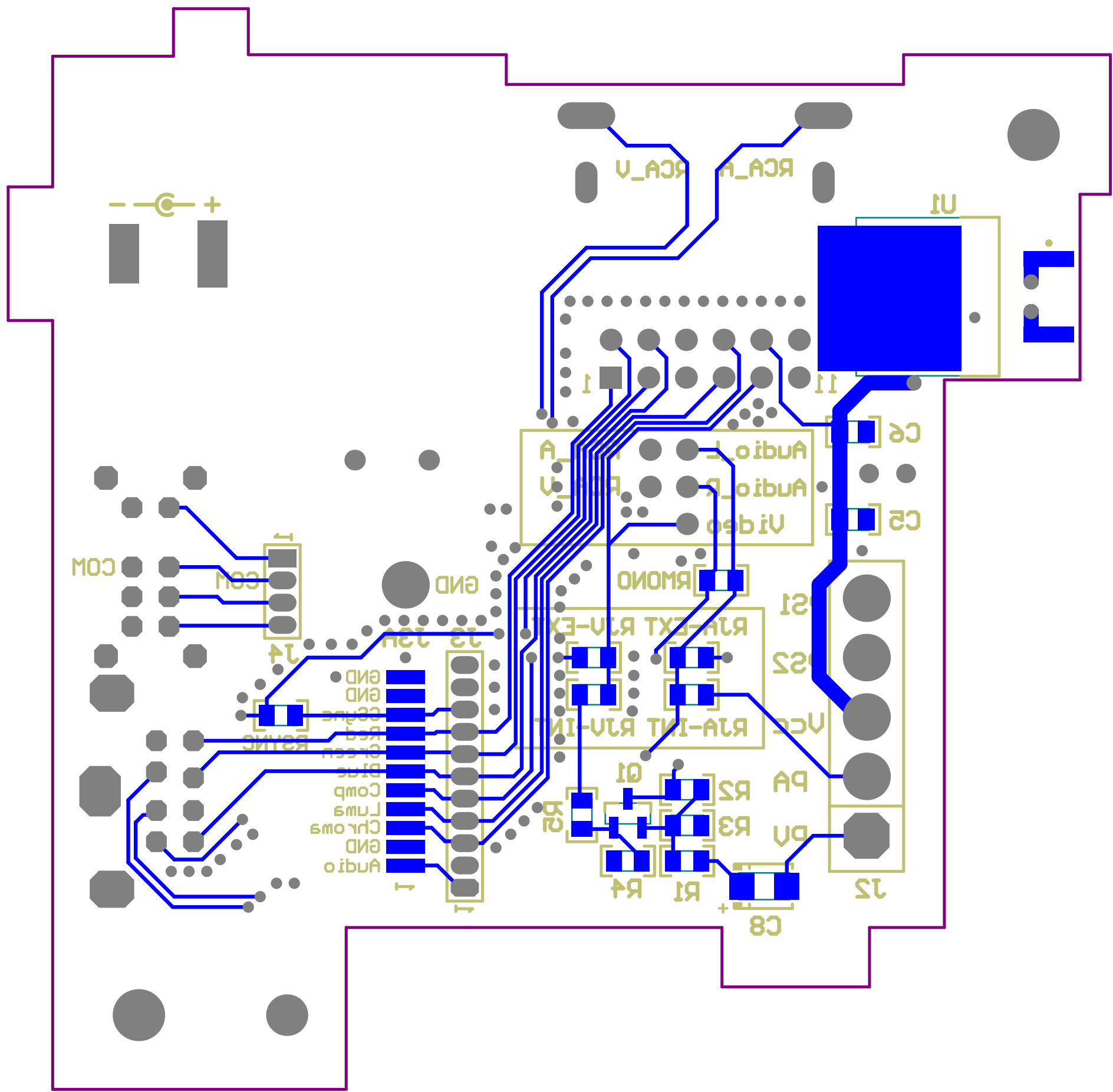
C3

SW1

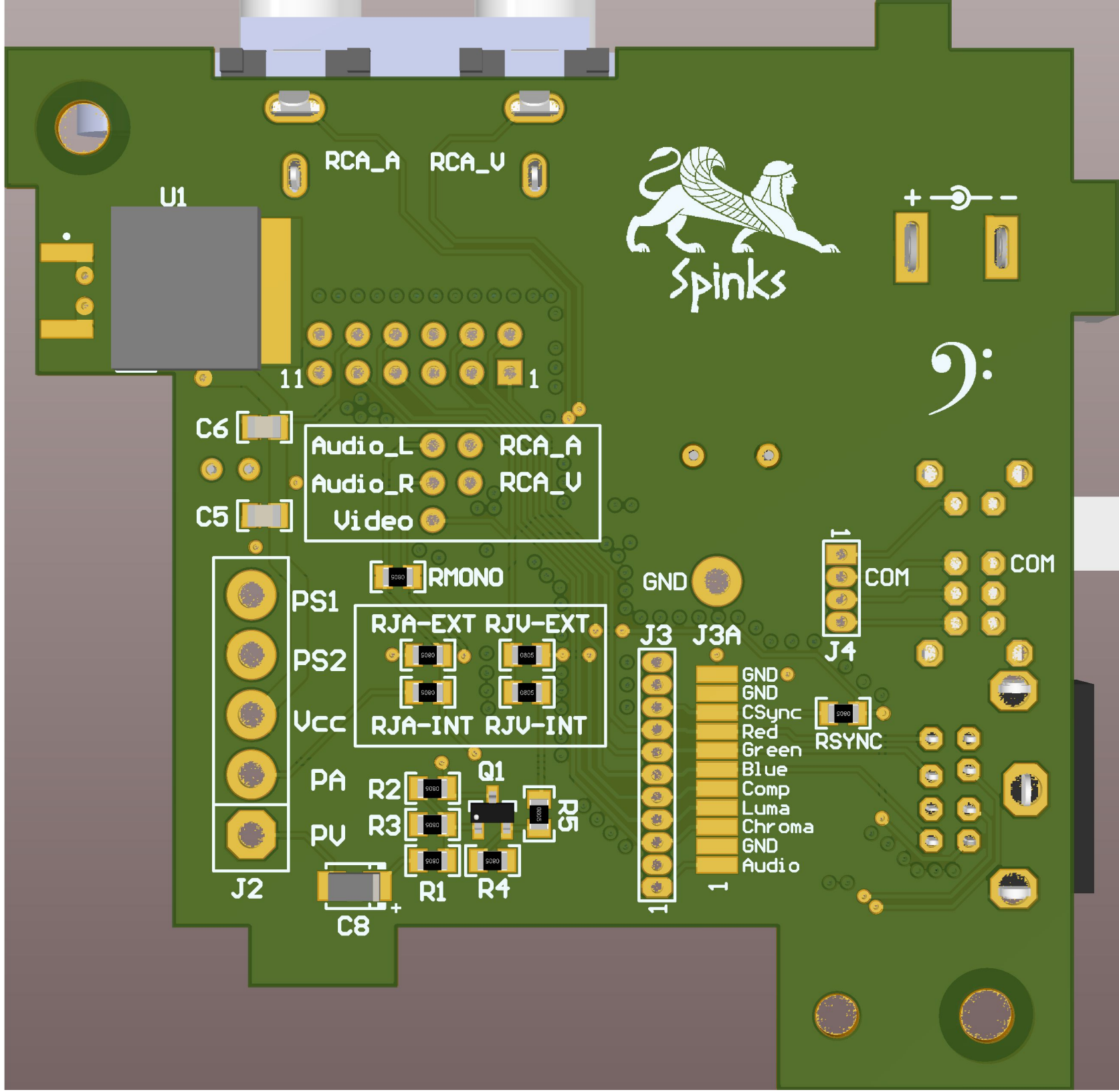
GND

C2

J5



A 3D perspective rendering of the Spinks NES PEM Controller PCB assembly. The green PCB is populated with various components: a large silver AC power jack (J1) labeled '9VAC' on the left; a white rectangular switch (SW1) below it; a large black circular potentiometer (C1) in the center; a smaller black potentiometer (C3) on the right; a 16-pin DIN connector (J6) in the upper right; and a 26-pin DIN connector (J5) on the bottom left. Several electrolytic capacitors (C2, C4, C7) are visible, along with a diode (D1). The assembly is mounted on a light blue plastic housing with two large circular cutouts. Text in the top left corner reads: 'Spinks NES PEM (V', 'rev 2-5-0', and '12/3/2020'.



Spinks NES PEM (Ver.A)
rev 2-5-0
12/3/2020

