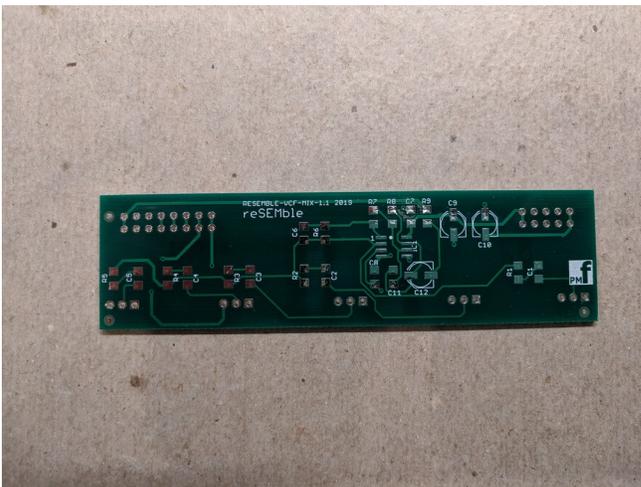


reSEMble-VCFMix v1.1 – Assembly Guide

Thank you for purchasing this module! This is an easy build but with some surface mount parts including precision integrated circuits. Some of the pads are quite small and you will need a chisel tip or screwdriver tip soldering iron, fine solder and the skill to solder these tiny joints. If you have not soldered SMD before, we recommend watching some of the many YouTube guides. Our favorite: EEVBlog.



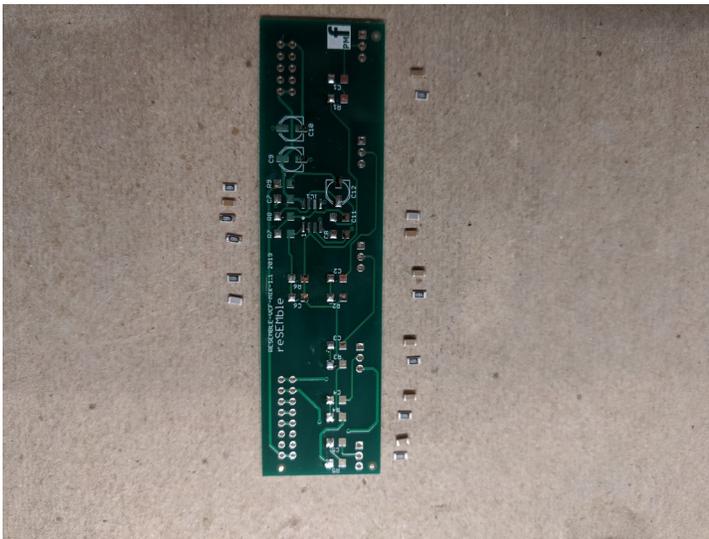
Follow the parts lists, these instructions and the PCB silkscreen text to build the module.

There are components installed on BOTH sides of the boards. Please ensure that you place the components on the correct side.

You should follow the order of assembly as described below.

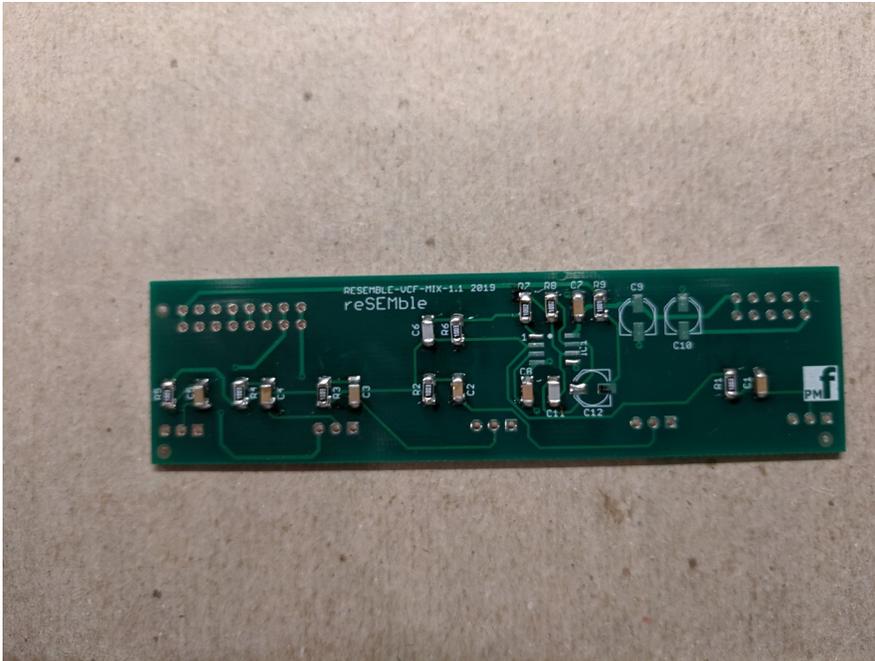
1. Board preparation

Apply flux to ALL the SMD pads. Tin one pad of each SMD footprint with a SMALL amount of solder. For the ICs, apply a tiny amount of solder to two opposite corner pins. You do not need to do this for the through hole pads.



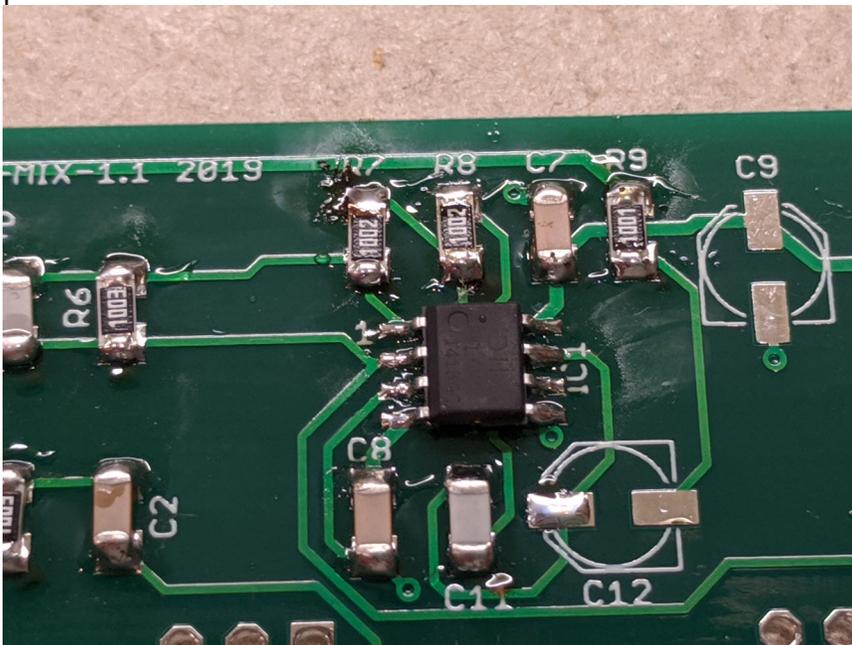
2. 1206 Size Resistors and ceramic capacitors

Install the 1206 resistors and 1206 capacitors on the TOP of the board by positioning on the footprint and heating the cap and tinned pad until the part is attached. When all 1206 parts have been attached. Solder the opposite pad of each part. Finally, reheat and add solder if necessary to finalize the first pad of each part.



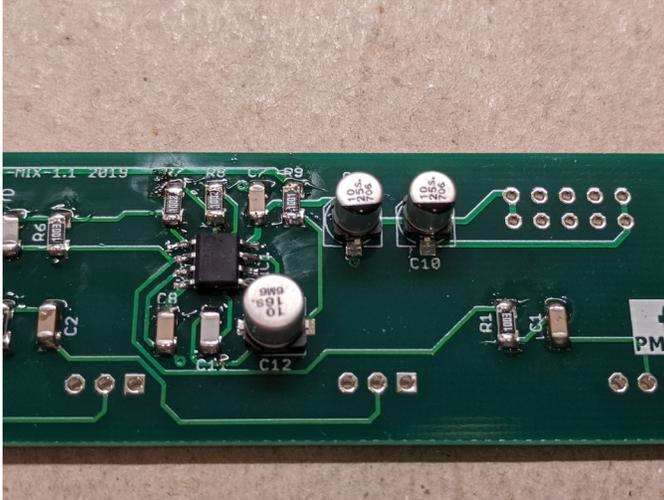
3. SMD IC

Install the IC with the correct orientation. Align the dot or other marker with the corresponding mark on the board. If you solder the ICs the wrong way round, they will explode and render the board useless. Position on the footprint and heat the pin and tinned pad in one corner until the part is attached. Position and heat the pin and tinned pad in the opposite corner until the part is attached and aligned with all pins and pads. Solder the remaining pins and pads. Finally reheat and add solder if necessary to finalize the corner pads of each part. Check for and remove any bridges between pins.



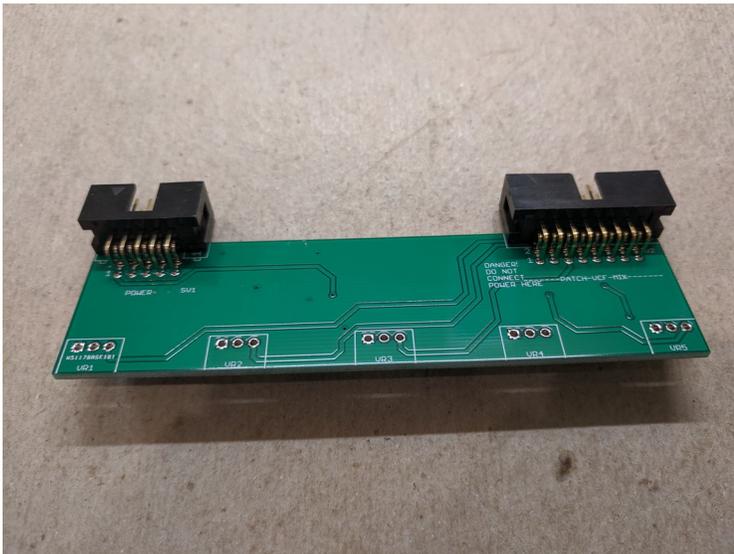
4. Electrolytic capacitors

Install these on the TOP. Make sure you orient these capacitors correctly. The lead marked with a + needs to be placed on the pad that has the “+” marking near it. Leads marked with “-” go on the pad WITHOUT the “+”. C12 is an unpolarized electrolytic capacitor so it does not have any +/- markings.



5. Power socket and patch socket

Install the 10 pin power socket and the 16 pin patch socket on the BOTTOM of the board. The sockets should face OUT from the back of the board. Solder.



6. Potentiometers

If the pots have positioning lugs on the front, cut these off with a sharp pair of flush cutting pliers. The front of the pot (where the shaft protrudes) needs to be flat.

Install 5 pots (100K) on the **BOTTOM** of the board.

Carefully align the pots so they are flush with the edge of the board and perfectly upright and tight to the board surface. Solder one pin. Please ensure they are on the **CORRECT SIDE OF THE BOARD**. See Photo.

