

50ohm.de Dummy Load



Quantity	Description
2	50Ohm PCB
1	Koax socket
1	Diode 1N4004
1	Capacitor 10nF
20	1kOhm Resistor

Difficulty: ●●●○○ Build-Time: 40 – 60 Minutes

Manual v1.0 CC BY-SA 4.0 Binary Kitchen e.V.

Board v1.0 CC BY-NC-SA 4.0 DL1FLO and blinkyparts GmbH

Safety Information

- ATTENTION: Not suitable for children under 3 years, choking hazard due to small parts that may be swallowed.
- We recommend: Supervision of the assembly and soldering process by an adult.
- Keep these operating instructions in a safe place for later use! It contains important information.
- If the battery is empty, replace it only with a new battery with the same values.
- When soldering, the soldering iron, the solder and also the components being soldered become very hot.
- Always wear safety glasses when soldering and assembling the kit.
- Always use a fire proof soldering pad when soldering! This prevents the components from slipping away.
- To keep the soldering iron safe during assembly, always use a suitable soldering stand.
- The kit is designed for battery operation only.
- CAUTION: Never connect the kit to 230 V mains voltage! There is an absolute danger to life!
- Please take the device to appropriately certified disposal companies at the end of its service life. This is good for the environment and ensures correct disposal.
- Subject to changes and errors.

Disposal

This appliance is labelled in accordance with the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). The directive provides the legal framework for the take-back and recycling of waste equipment throughout the EU.

- **packaging:** The packaging is made of environmentally friendly materials and is therefore recyclable. Dispose of packaging materials that are no longer needed accordingly.
- **waste equipment:** Old appliances often still contain valuable materials. Therefore, hand in your old appliance to your retailer or a recycling centre for reuse. Please ask your retailer or your local authority for the current disposal routes.

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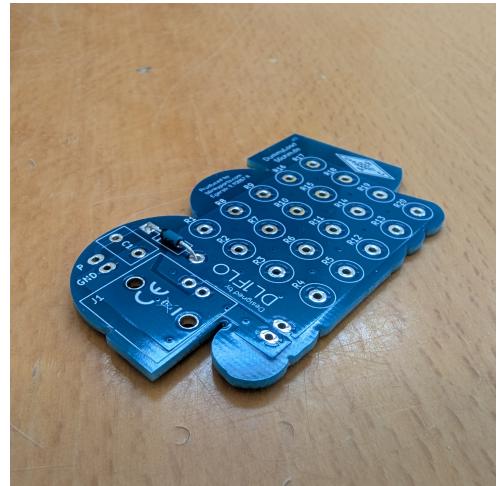
Step 1

- a) Check, whether all parts are present.



Step 2

- a) First solder the diode to the intended position on the circuit board
- b) pay attention to the correct orientation
- c) the black line on the diode must point in the same direction as the marking on the circuit board.



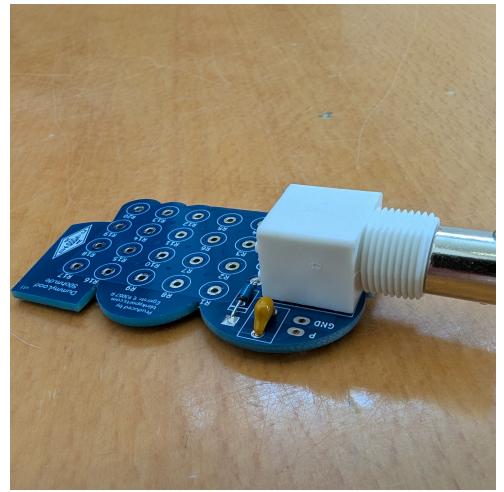
Step 3

- a) Next, we solder the capacitor to the circuit board.



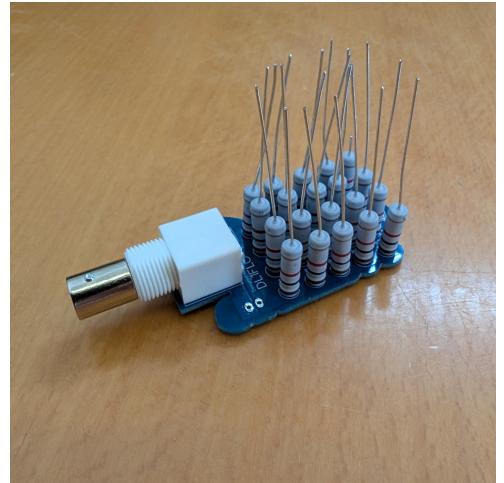
Step 4

- a) When soldering the BNC socket, make sure that it is fully seated and not crooked.



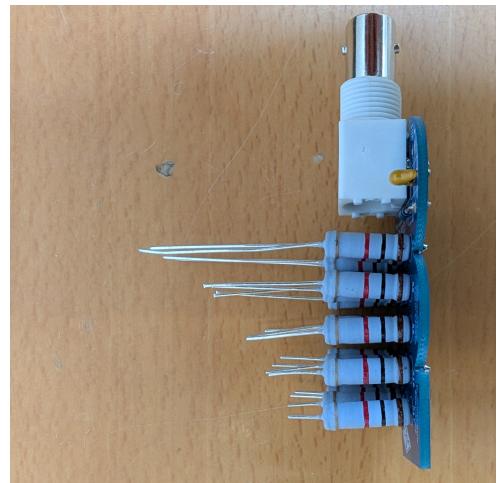
Step 5

- a) Now place all the resistors on the board
- b) Tip: Solder row by row
- c) Tip: First attach the resistors with a little solder and then align them
- d) The resistors have the following color code:
Brown, Black, Red, Gold



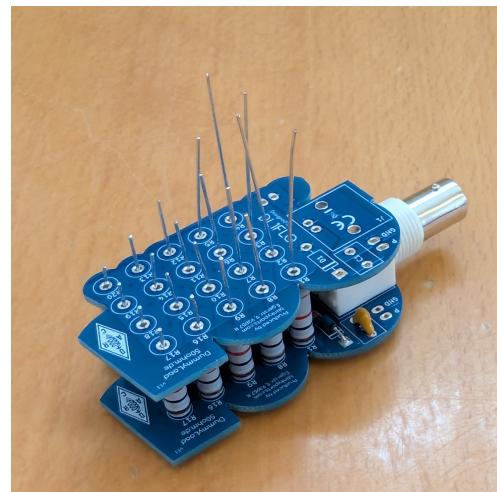
Step 6

- a) Now cut the wires of the resistors in stages. This will help you in the next step.



Step 7

- a) Now plug the second circuit board onto the wires of the resistors
- b) Make sure that all the wires really do protrude through the circuit board.



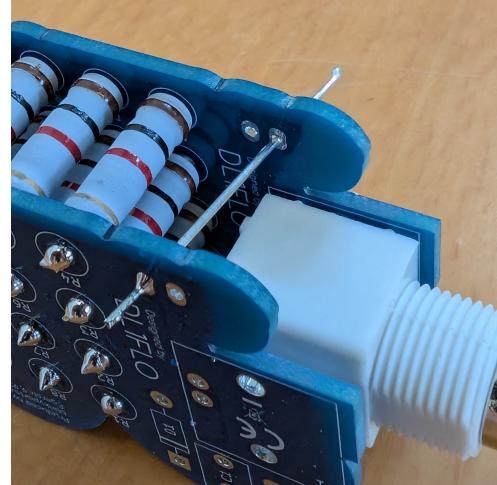
Step 8

- a) Now you can solder all the resistors
- b) Cut off the protruding wire ends as short as possible.



Step 9

- a) Finally, there is a contact between the two circuit boards
- b) You can use a section of wire from a resistor for this
- c) On the circuit board with the BNC socket, the wire goes into the hole between the d and e (50 Ohm logo), on the circuit board without the BNC socket, the wire goes into the hole in the circle of the letter d.



Step 10

- a) Your 50-ohm dummy load is now ready.
- b) For the final check, check the circuit board for solder bridges (primarily diode, capacitor, contact bridge and BNC socket). Measure the resistance at the BNC socket with a multimeter
- c) this should be around 50Ω
- d) now you can put the dummy load into operation.

