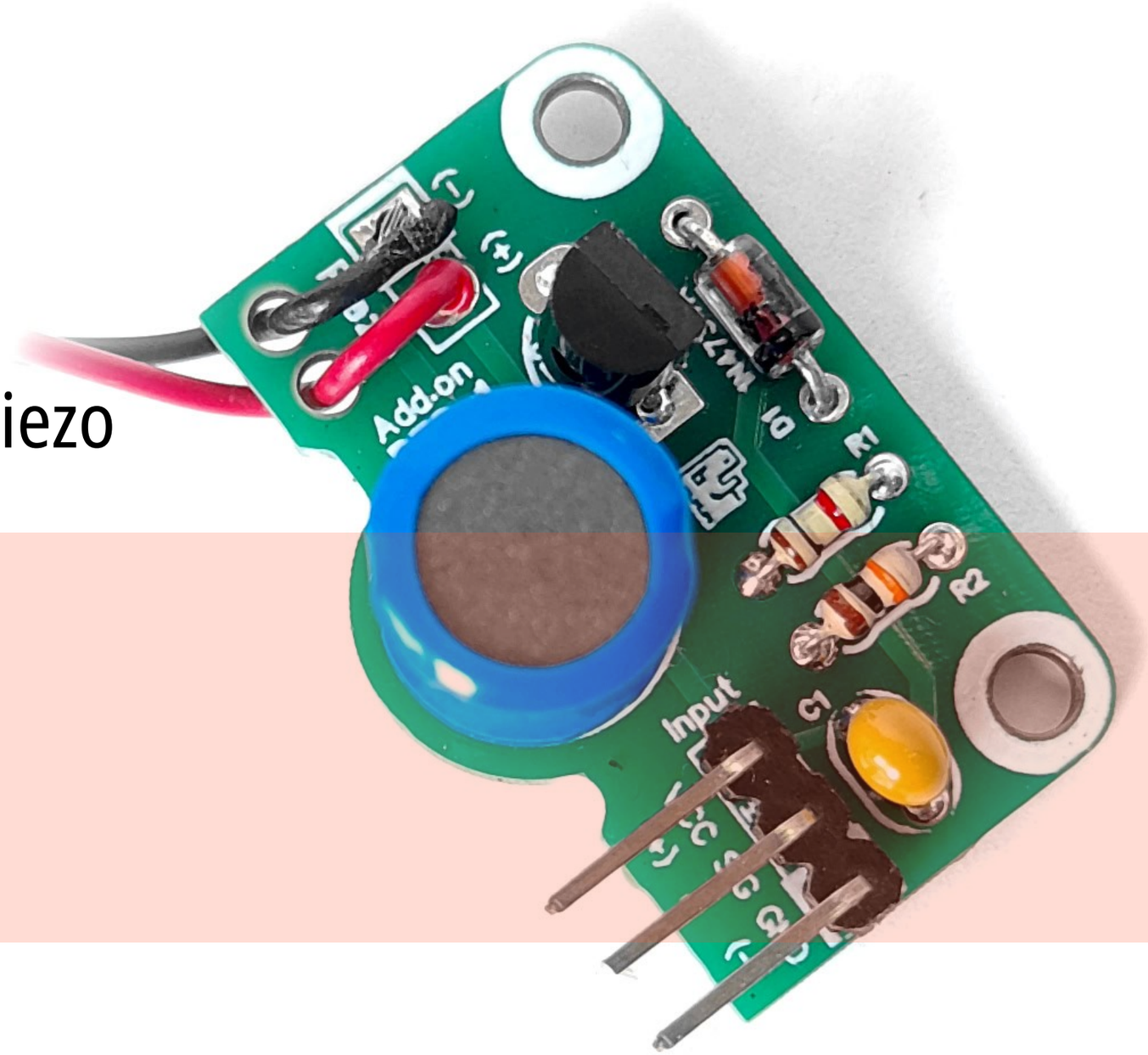
Step-by-step guide
how to assemble your

**Tinusaur Add-on**

**PZDx1** a.k.a. Loud Piezo




# Tinusaur Add-on PZDx1

**Gen:4 mk-II**

9 December 2025

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# IMPORTANT NOTICE

As of December 9, 2025

This **User Guide** is still a work in progress.

All images are current and correct.

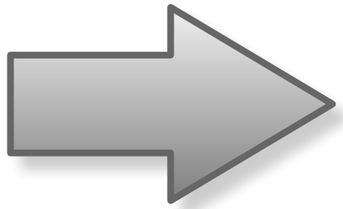
Some texts are partially or completely missing.

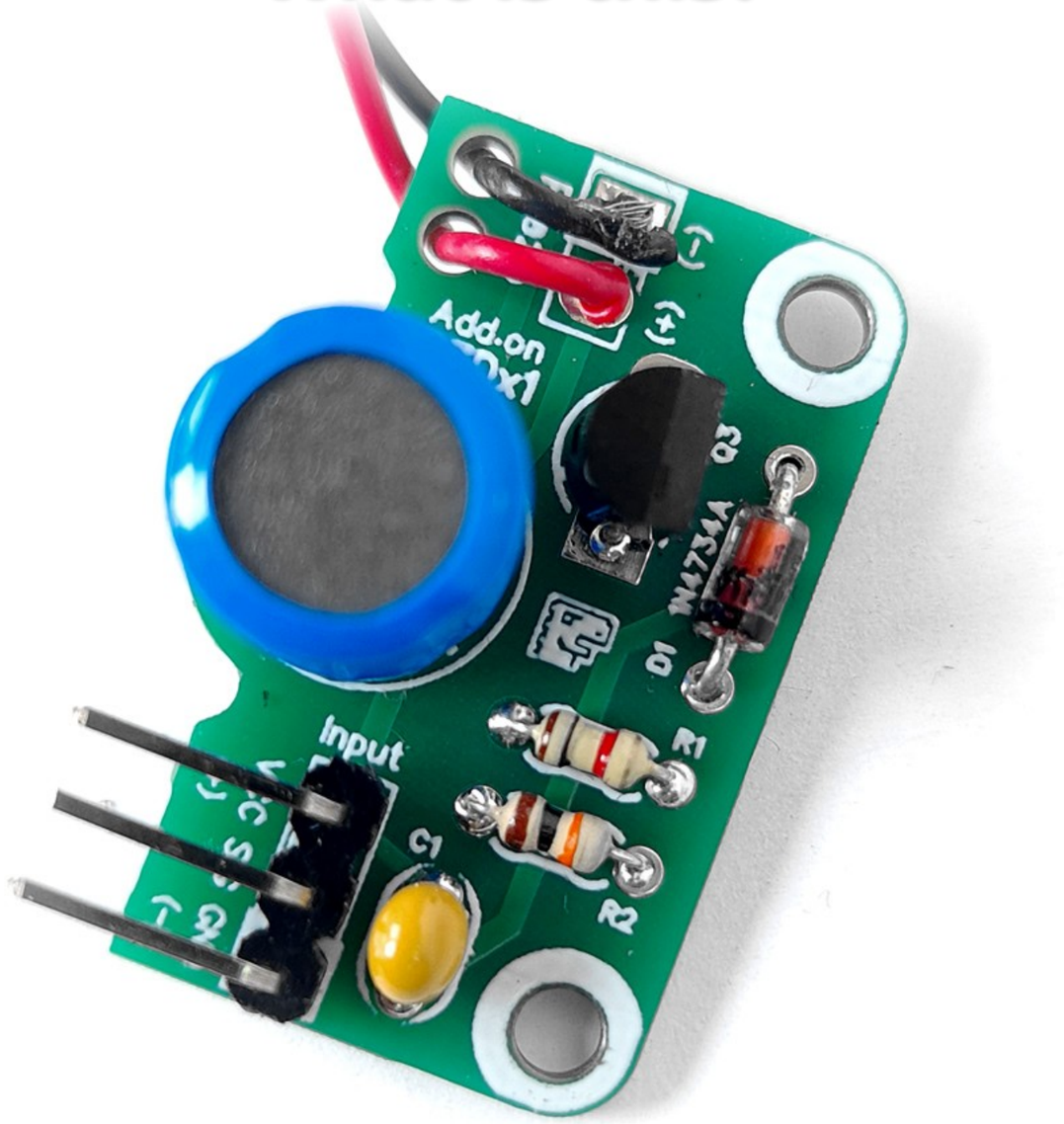
# Tinusaur Add-on PZDx1
# What is this?

This is the **Tinusaur Add-on PZDx1**

- This is an **add-on** board that we connect to other Tinusaur boards such as Tinusaur Shields.

This is what the assembled board should look like



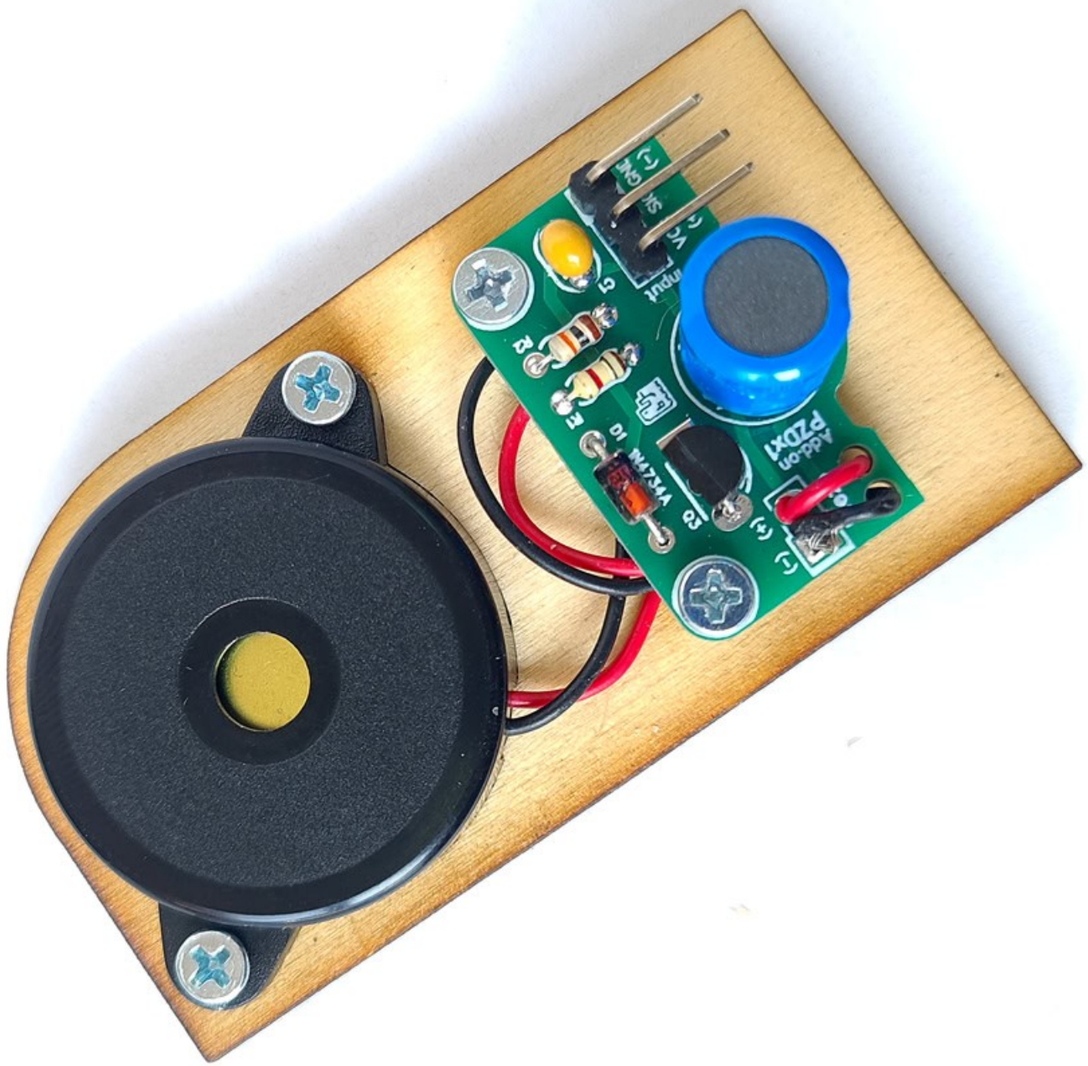


# Tinusaur Add-on PZDx1
## What is this?

- We connect the **input** of this add-on board to source of audio signal.
- We connect its output to a piezo buzzer.

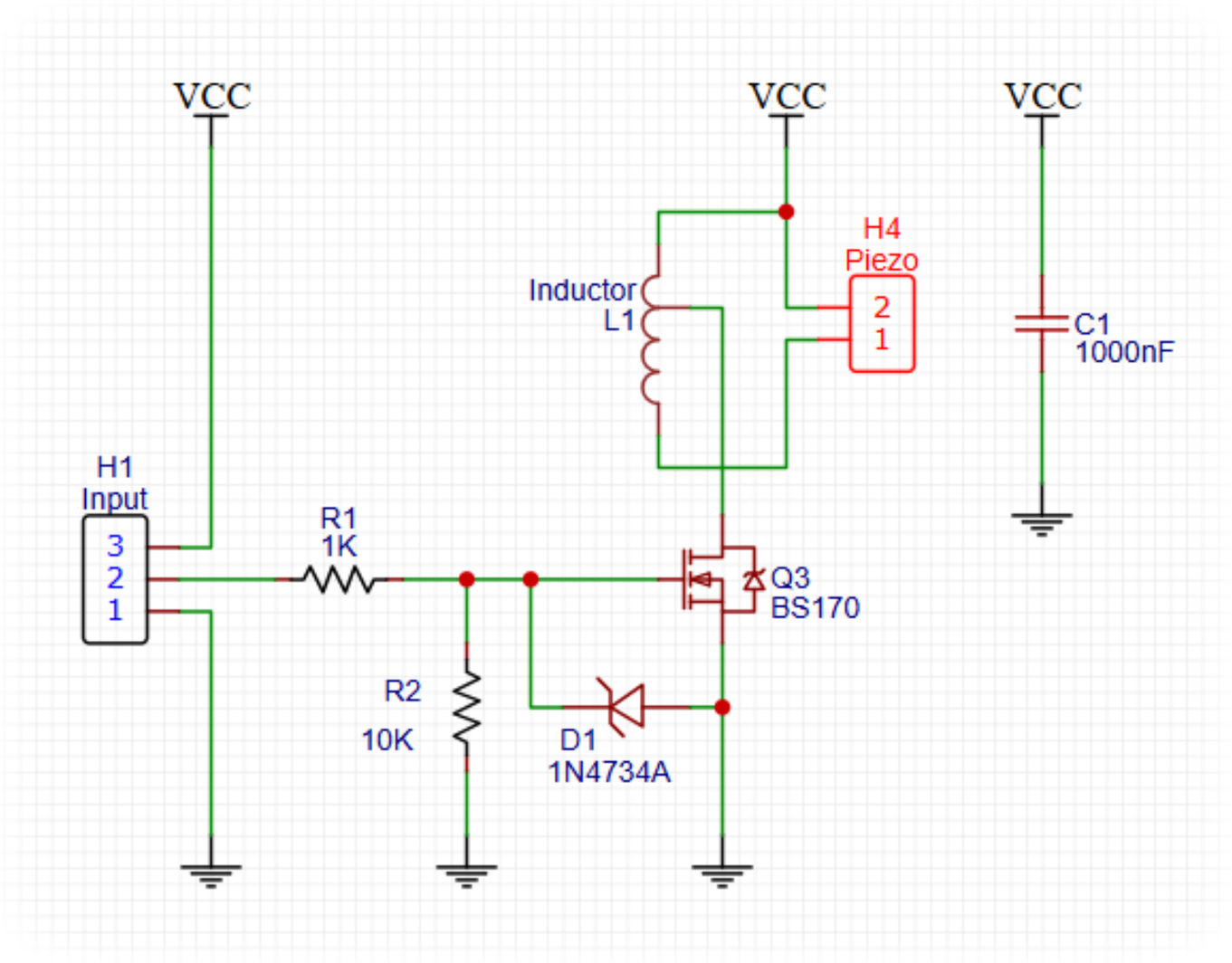
  In a way, this board works as **audio amplifier**.

**NOTE**: The piezo buzzer is not part of this package.



# Schematics

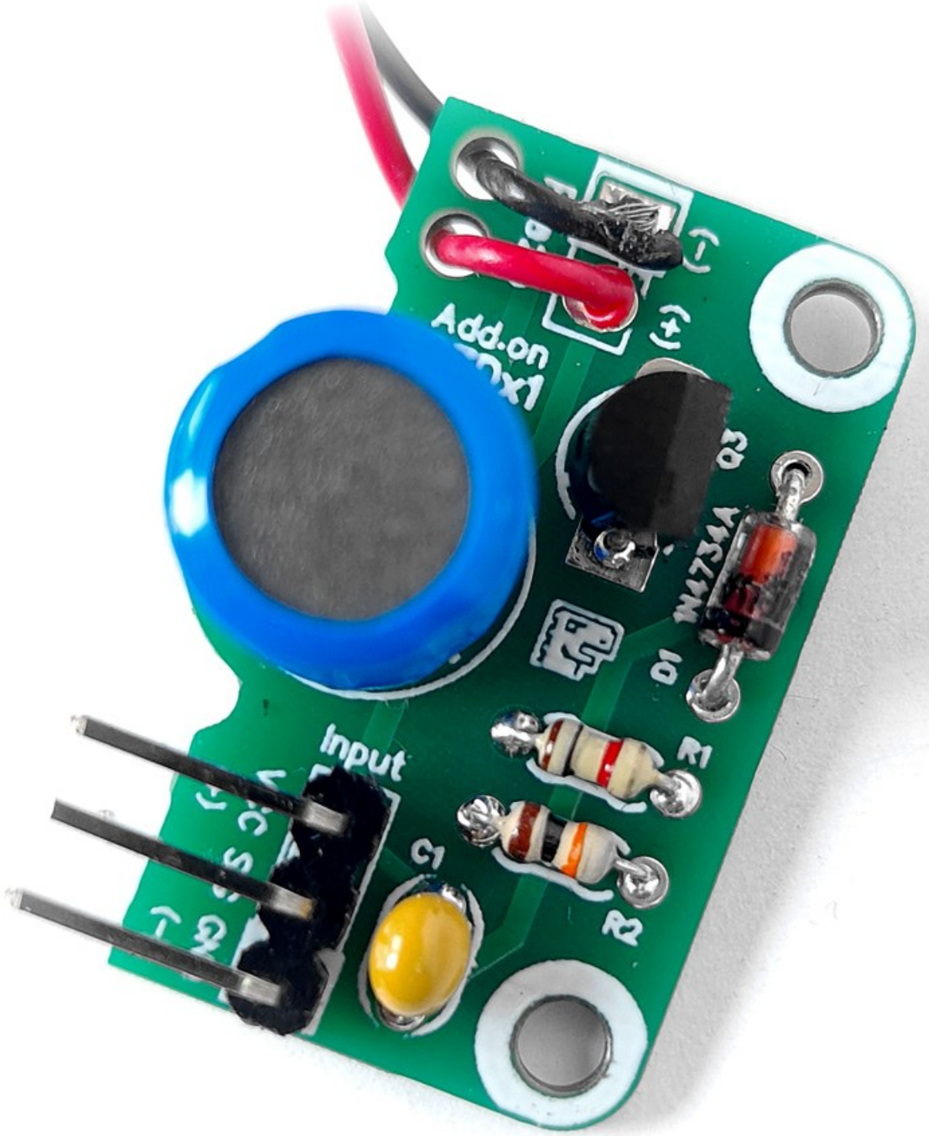
This is the schematic of the board. It is not necessary to completely understand the schematic to assemble the board. The schematic is provided as a reference.



# Parts

**Parts List**:

- PCB for Add-on PZDx1
- Resistor, 1K, 0.125w, 5%
- Resistor, 10K, 0.125w, 5%
- Transistor MOSFET BS170
- Diode Zener 1N4734A
- Capacitor, 1000 nF, ceramic
- Transformer (Inductor) 76mH x 1.7mH
- Header, 1x3 pins, male, angle



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# Resistor – 1 K

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# Resistor – 10 K

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# Capacitor – 1 nF

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# Transformer
# 76mH x 1.7mH

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# Diode
# Zener 1N4734A

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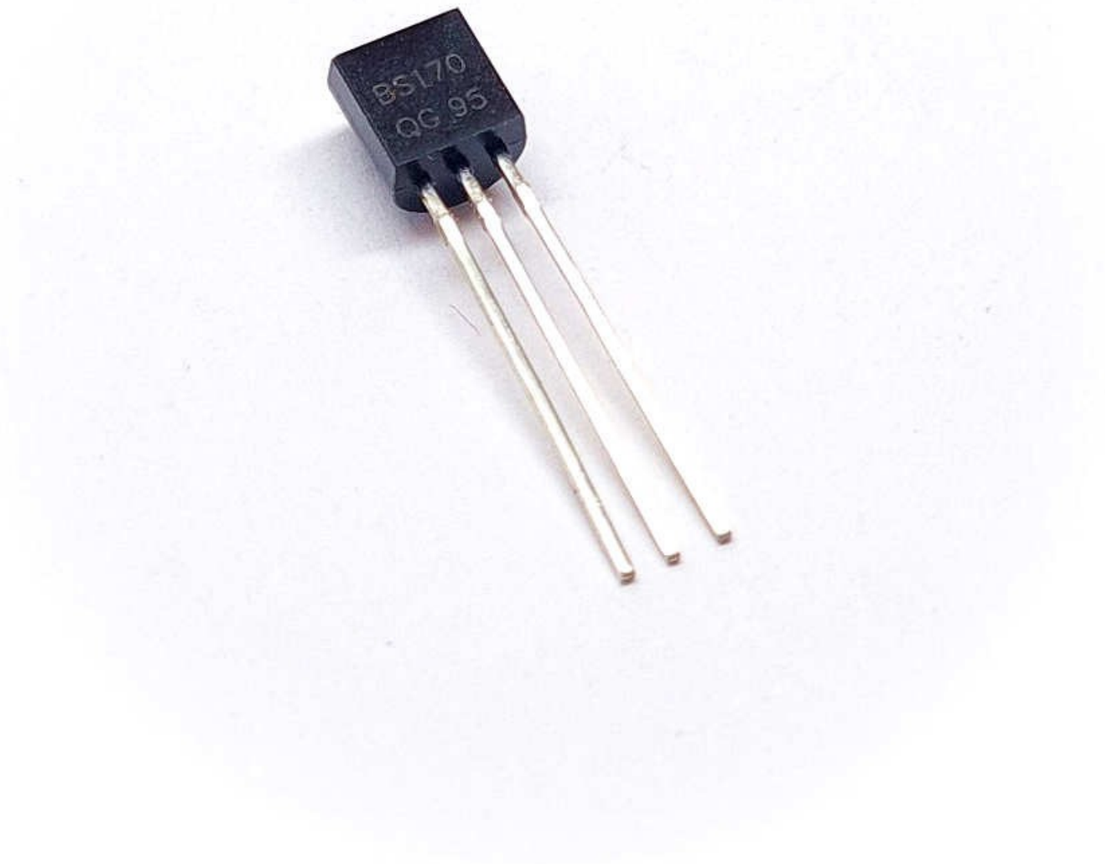
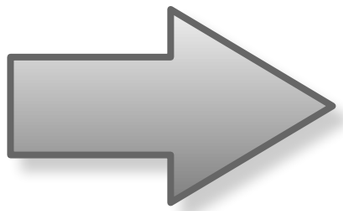
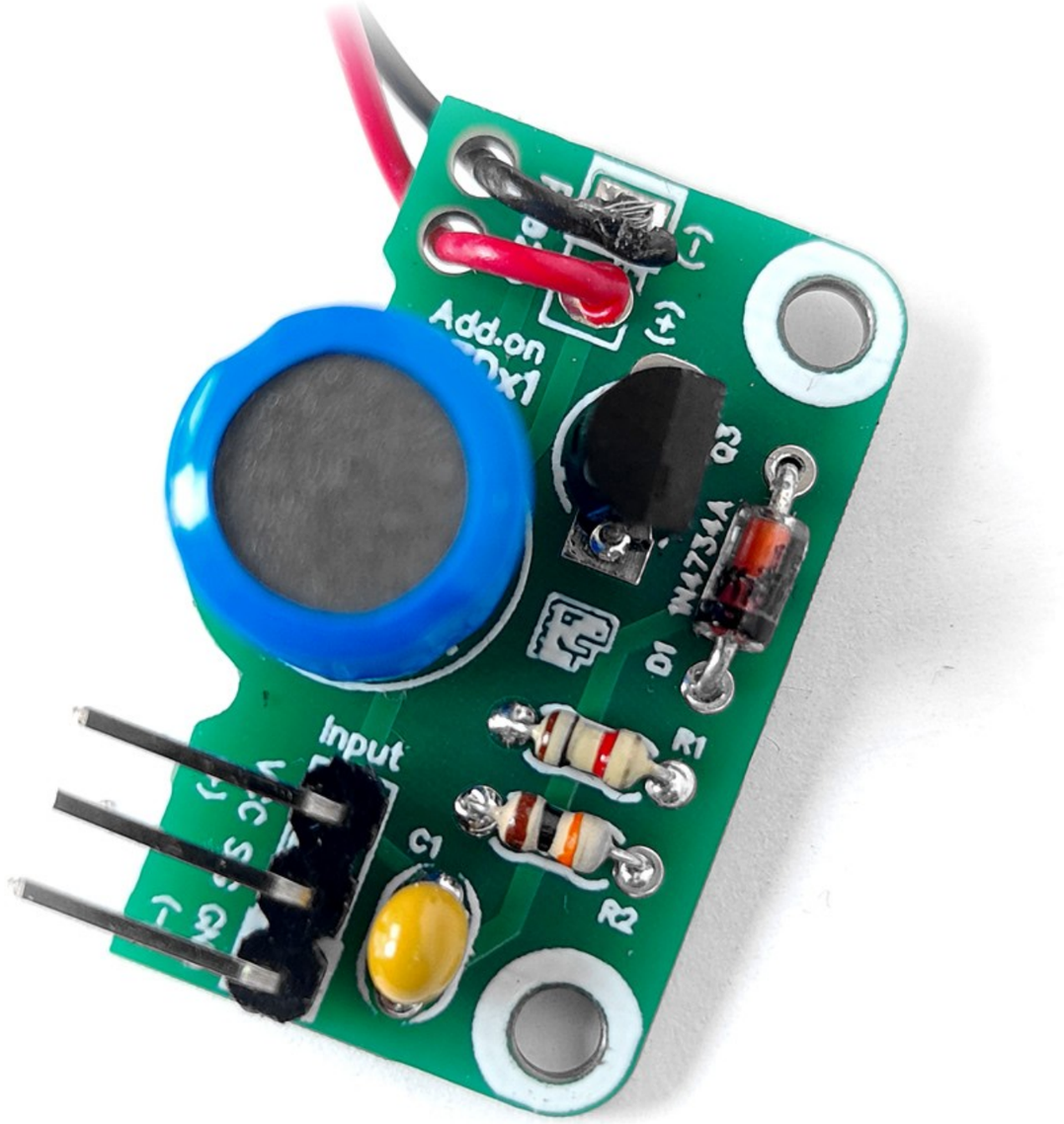
# Transistor
# MOSFET BS170



# Tinusaur Add-on PZDx1

This is what the assembled **Add-on PZDx1** board should look like

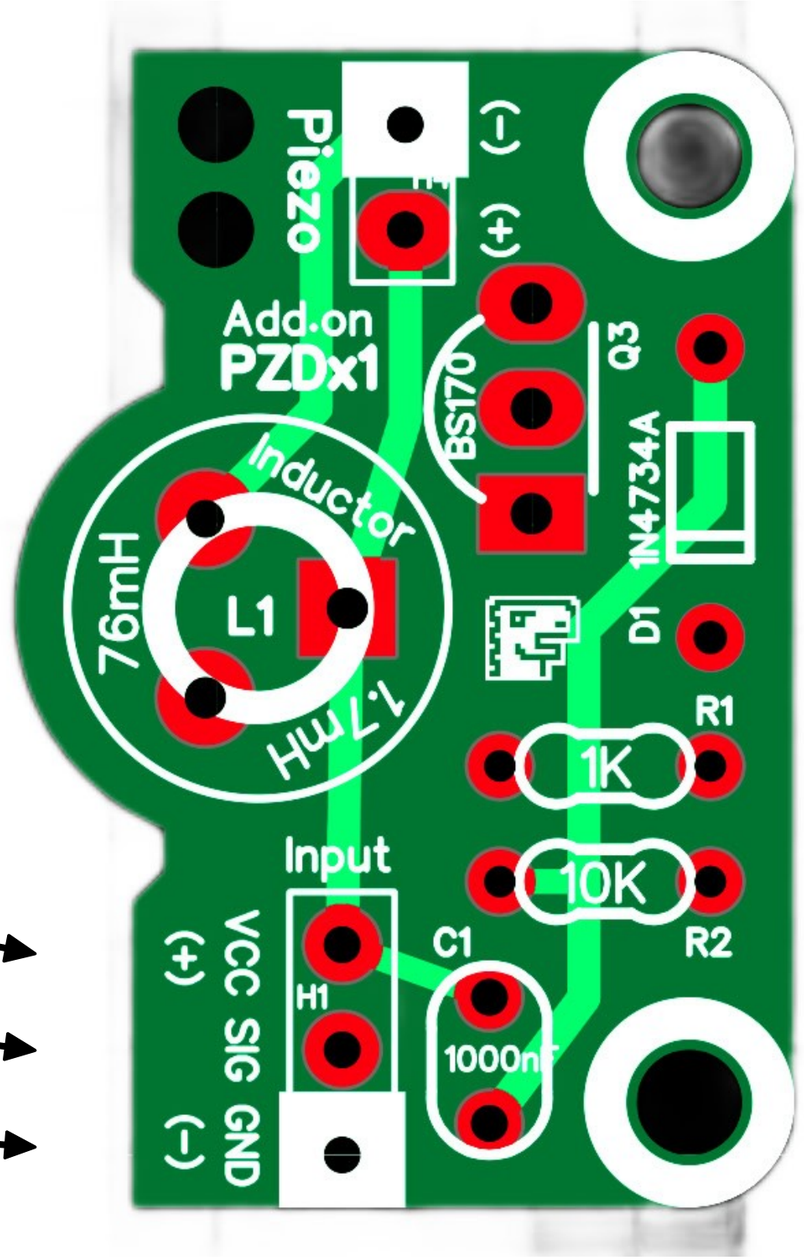




# Tinusaur Add-on PZDx1

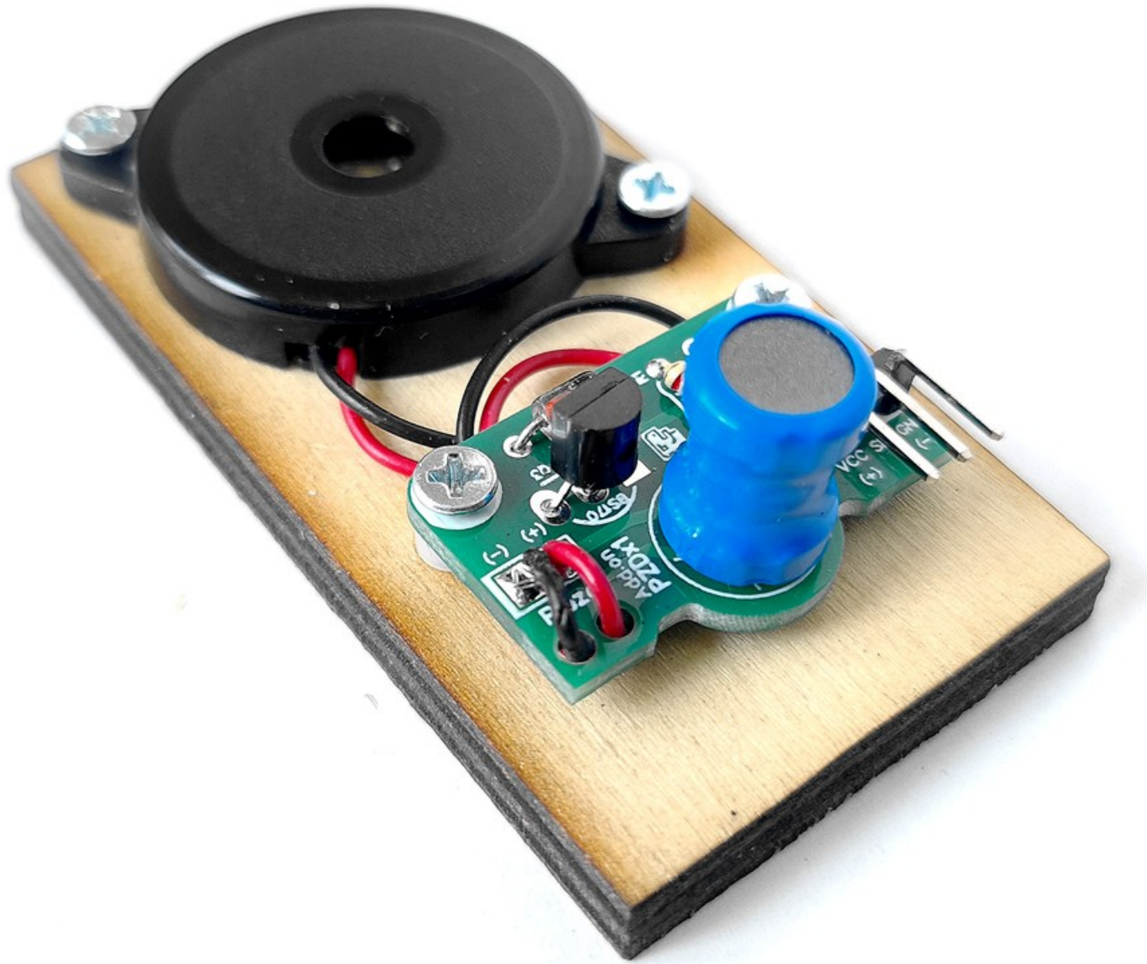
Input connections

- VCC - Power (+)
- SIG - Signal
- GND - Power (-)



# Tinusaur Add-on PZDx1

In most cases, we connect the output of the **Tinusaur Add-on PZDx1** to a **piezo buzzer**.



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Your opinion matters to us

Give us your feedback at:
https://tinusaur.com/guides/feedback/

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