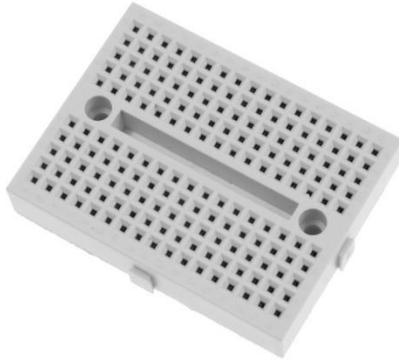
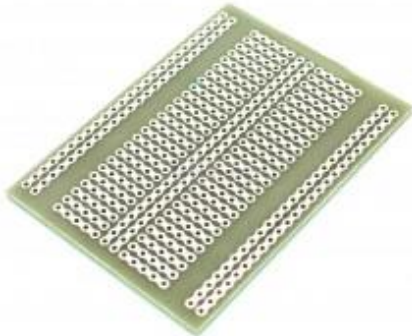


## Breadboards, Stripboards, Perfboards, and Protoboards

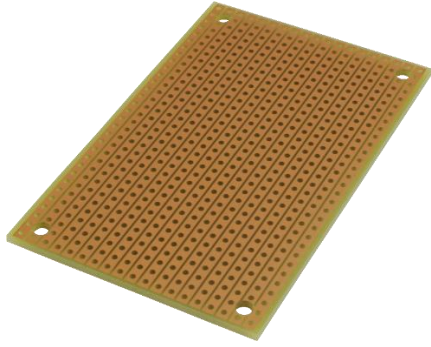
- Breadboards
  - Does not require soldering, reusable, perfect for temporary circuits
  - Less reliable connections, subject to jostle and physical degradation
  - Two nodes running down columns in series, rest in series rows



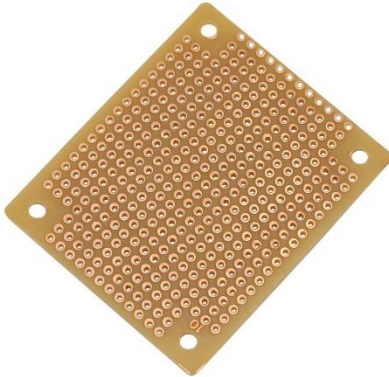
- Protoboards
  - Same circuit configuration as breadboard but requires soldering
  - Has lots of individual nodes, more wiring potential
  - Does not require soldering together to form series joints, board does that through internal connection



- Stripboards
  - Made for permanent soldered connections
  - Easy to cut and manipulate size
  - Most versatile, many variations
  - Circuit configuration varies with type of stripboard



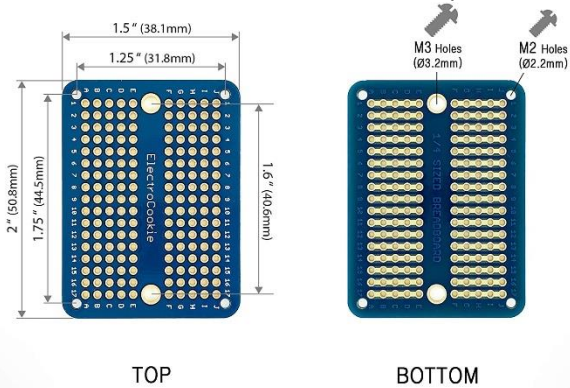
- Perfboards
  - Not ideal for surface mount devices
  - Circuit layout must be configured completely
  - Most manipulatable circuit



For our project, we need manipulatable size but we would like a standard PCB circuit layout for easy conversion from breadboard prototype to our final ingrained size. For this we will likely want a mini protoboard

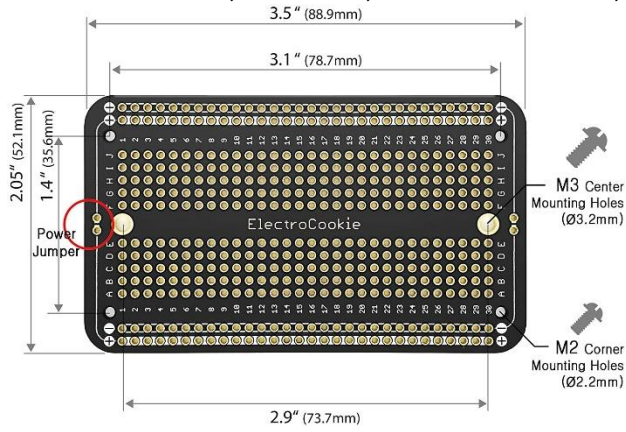
Best Options on Amazon:

1. 170 Nodes, series rows, \$10, 6 pack



[https://www.amazon.com/ElectroCookie-Solderable-Breadboard-Electronics-Gold-Plated/dp/B081MSKJX/ref=sr\\_1\\_3?dchild=1&keywords=mini+protoboard&qid=1605223000&sr=8-3](https://www.amazon.com/ElectroCookie-Solderable-Breadboard-Electronics-Gold-Plated/dp/B081MSKJX/ref=sr_1_3?dchild=1&keywords=mini+protoboard&qid=1605223000&sr=8-3)

2. 420 Nodes, series row, V and GRD columns, \$10, 5 pack+mini



[https://www.amazon.com/ElectroCookie-Solderable-Breadboard-Electronics-Gold-Plated/dp/B07ZYNWJ1S/ref=sr\\_1\\_10?dchild=1&keywords=mini+protoboard&qid=1605223000&sr=8-10](https://www.amazon.com/ElectroCookie-Solderable-Breadboard-Electronics-Gold-Plated/dp/B07ZYNWJ1S/ref=sr_1_10?dchild=1&keywords=mini+protoboard&qid=1605223000&sr=8-10)