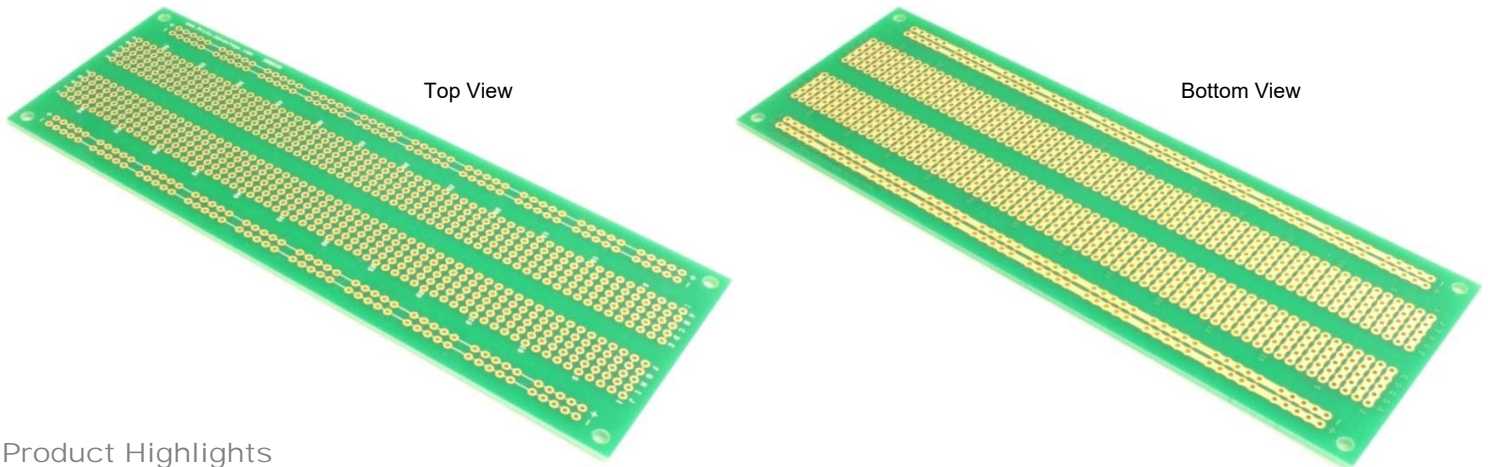


## 830 pts solder-in breadboard (Exact Solderless Match)



### Product Highlights

#### Immersion Gold Finish

All holes are gold plated and are on a 0.1" grid. Column E-F hole-center to hole-center spacing is 0.3" (7.62mm).

1/16" (1.6mm) thick FR-4 UL94V-0

Accepts a variety of wire sizes (20-32 AWG)

4 mounting holes

### Usage

This board exactly copies the routing of an 830 pts full size solderless breadboard.

Allows direct transfer of circuits prototyped in a solderless breadboard to a solder-in breadboard to facilitate functional in-system testing or field testing.

### Specifications

#### Wiring Pattern:

2 Distribution Strips

1 Terminal Strip

200 Distribution Holes

630 Terminal Holes

#### Dimensions:

6.6" x 2.3" x 0.0625" (167.64mm x 58.42mm x 1.6mm)

#### PCB construction:

FR-4 UL94V-0

#### PCB operating temperature range:

-40°C to +130°C (-40°F to +266°F)

#### PCB reflow maximum temperature:

+260°C (500°F)

#### PCB trace width:

0.059" (1.5mm)

#### PCB trace thickness:

1 oz copper / ft<sup>2</sup> (1.4 mils) (0.03556 mm)

#### PCB trace current capacity\*:

10A continuous @ 40°C rise, 13A continuous @ 80°C rise\*

#### Hole size:

1.0mm (40 mils) diameter

#### Recommended pin size:

25 mil square wire wrap posts or smaller

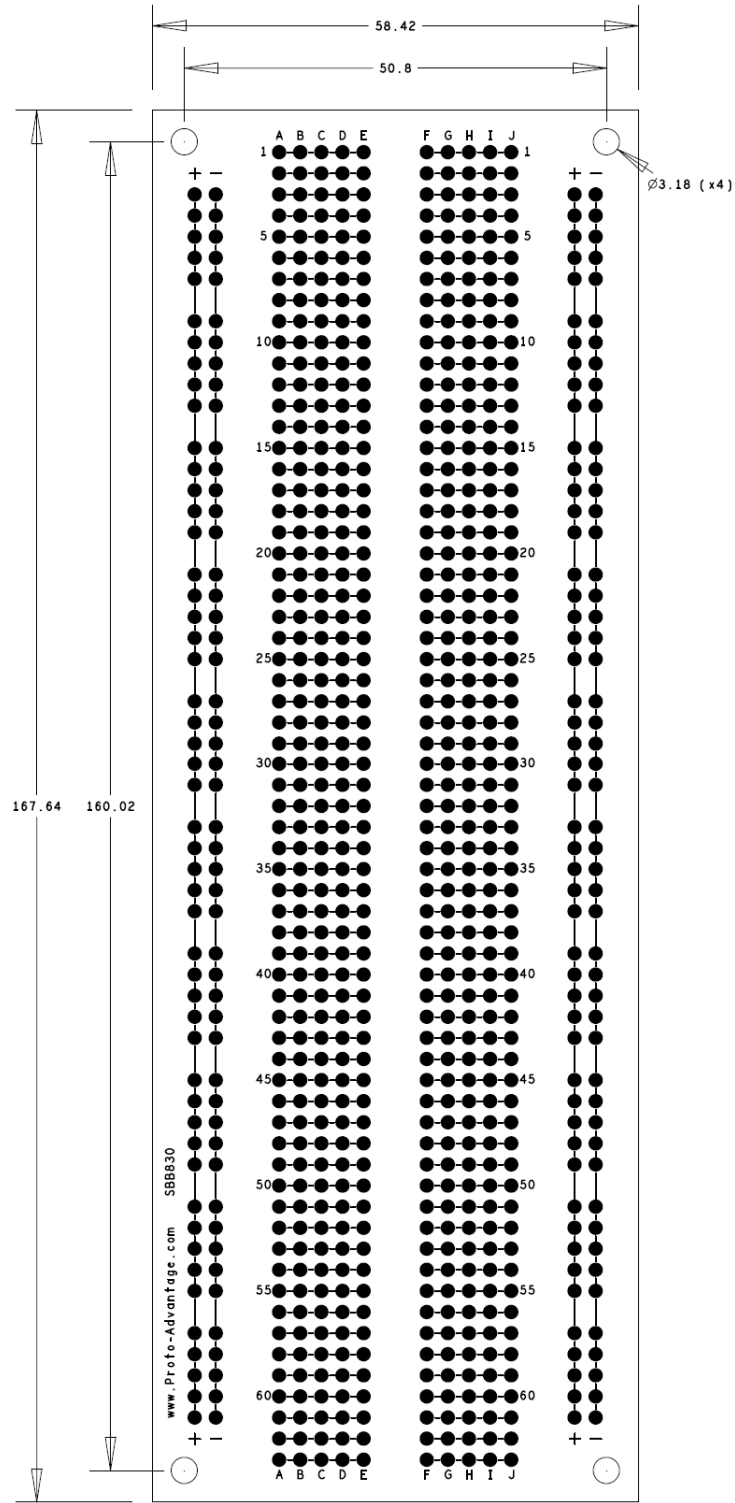
#### Diameter of 4 corner mounting holes:

3.2mm (125 mils)

\* Derived from IPC-2221 current capacity graphs at 25°C ambient temperature. Actual current capacity will vary based on air flow, component density, and other factors.

# Top View of SBB830

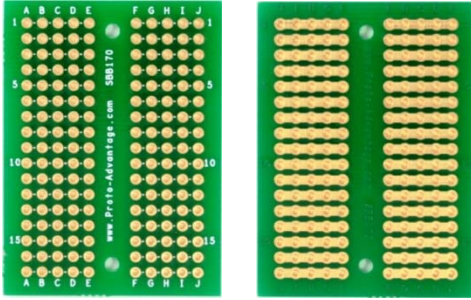
Topside silkscreen lines between holes show where bottom traces electrically connect holes.



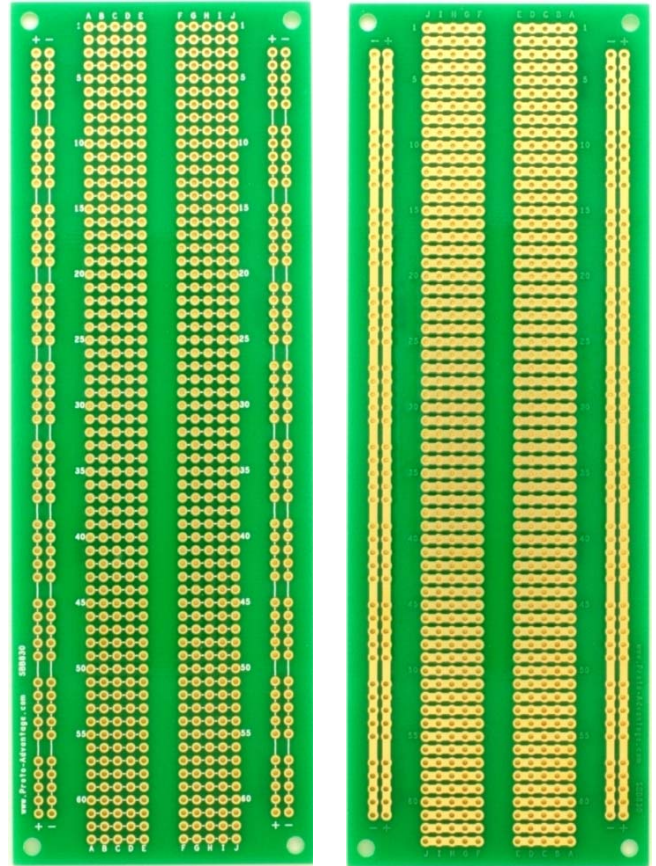
(Representative drawing only - not to scale)

# Complete Line of Proto Advantage Exact Solderless Match Solder-in Breadboards:

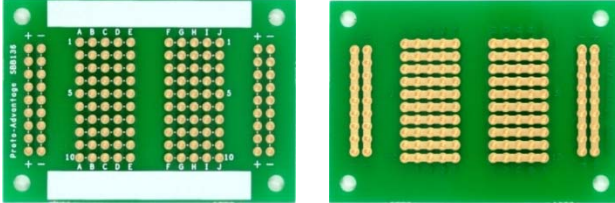
Tiny breadboard match (P/N: **SBB170**)



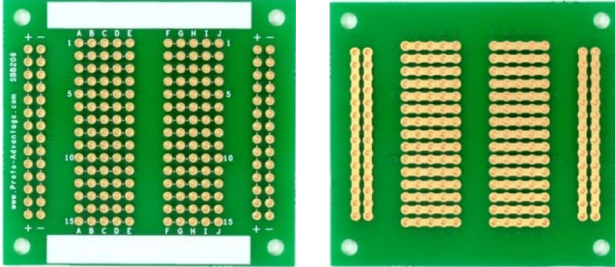
Full size breadboard match (P/N: **SBB830**)



1/6 size breadboard match (P/N: **SBB136**)



1/4 size breadboard match (P/N: **SBB206**)



1/2 size breadboard match (P/N: **SBB400**)

