ENCLOSURES WITH ALUMINUM COVERS
Heavy-duty 3/32" molded plastic boxes with brushed aluminum covers. Built in stand-offs for PC or perf boards. Includes screws. Solderable perf boards PC-1, 2, 3, 4 listed below fit these cases.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>CAT#</th>
<th>9 10+</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7&quot; x 1.7&quot; x 1.2&quot; H</td>
<td>TB-1</td>
<td>1.90</td>
</tr>
<tr>
<td>3.3&quot; x 2.1&quot; x 1.4&quot; H</td>
<td>TB-2</td>
<td>2.50</td>
</tr>
<tr>
<td>4,2&quot; x 2.7&quot; x 1.6&quot; H</td>
<td>TB-3</td>
<td>2.95</td>
</tr>
<tr>
<td>5.3&quot; x 3.3&quot; x 1.6&quot; H</td>
<td>TB-4</td>
<td>3.75</td>
</tr>
</tbody>
</table>

SOLDERABLE BREADBOARDS
Perf board with mounting holes designed to fit our project enclosures TB-1,2,3 and 4. Boards have holes on 0.1" matrix to fit most standard components. Copper solder rings on one side.

1 1/2" x 1 3/4". Fits TB-1 enclosure
CAT# PC-1 | 75¢ each
1 7/8" x 2 1/4". Fits TB-2 enclosure
CAT# PC-2 | $1.00 each
2 1/2" x 3 1/8". Fits TB-3 enclosure
CAT# PC-3 | $1.50 each
3" x 4 1/4". Fits TB-4 enclosure.
CAT# PC-4 | $2.00 each

60 x 80mm, 594 point multilayer epoxy board. Single hole pads. Holes on 0.1" centers. Double-sided with pre-tinned through-holes. Rows and columns are labeled alphabetically.

CAT# SB-25 | $3.00 each

Same pattern and spacing as our solderless breadboard, CAT# PB-400. Transfer your parts and wires, keeping the same layout to get a long-lasting prototype with reliable solder connections. High-quality FR4 glass epoxy PC board. Copper on one side. CAT# SB-300 has the same pattern as SB-400 w/o the bus strips on each side.

300 point | CAT# SB-300 | $4.00 each
400 point | CAT# SB-400 | $5.00 each
800 point | CAT# SB-800 | $6.50 each

SOLDERABLE PERF BOARD WITH SOLDER PADS AND BUSS STRIPS
Multilayer epoxy boards. Holes on 0.1" centers for SIP and DIP components.

SINGLE HOLE PADS
double sided w/ plated through-holes

<table>
<thead>
<tr>
<th>Size</th>
<th>CAT#</th>
<th>50 x 80mm</th>
<th>80 x 100mm</th>
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</thead>
<tbody>
<tr>
<td>50 x 80mm</td>
<td>CAT# SB-24</td>
<td>$4.00 each</td>
<td></td>
</tr>
<tr>
<td>80 x 100mm</td>
<td>CAT# SB-48</td>
<td>$6.00 each</td>
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</table>

TWO HOLE PADS
copper pads one side

<table>
<thead>
<tr>
<th>Size</th>
<th>CAT#</th>
<th>50 x 80mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 x 80mm</td>
<td>CAT# SB-2H1</td>
<td>$3.25 each</td>
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</tbody>
</table>

SOLIDER LINE PATTERN
copper pads one side

<table>
<thead>
<tr>
<th>Size</th>
<th>CAT#</th>
<th>50 x 80mm</th>
<th>100 x 80mm</th>
<th>160 x 100mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 x 80mm</td>
<td>CAT# SB-ST1</td>
<td>$3.15 each</td>
<td>$4.00 each</td>
<td>$6.95 each</td>
</tr>
</tbody>
</table>

SNAPPABLE BREADBOARD
Solderable, double-sided breadboard that can be used as a single proto board or snapped into four smaller boards for tiny projects. 2-hole strips and 4-hole strip areas. Four power rails. Centerline pads. High-quality FR4 glass epoxy PCB. Lead-free. Anti-tarnish coating. 0.042" holes drilled on 0.1" centers.

Size: 2.5" x 3.8" (63.5 x 96.5mm).

CAT# SBB-4 | $5.50 each

SMT PADS
Grid of SMT pads on 0.05" centers allows SMT components of various sizes & pitches to be mounted. Larger components can span pads. Solid copper ground plane on bottom of board. Every 4th SMT pad has an unplated hole for easy connection to the ground plane.

50 x 80mm | CAT# SB-5050 | $4.00 each
100 x 160mm | CAT# SB-3T | $12.50 each

SOLDERLESS BREADBOARDS
Design and change circuits quickly and cleanly. Bread-boards accommodate all sizes of dips and discrete components with lead diameters up to 0.032". Interconnect with solid hook-up wire (#22 AWG recommended). Wires & components can be used & re-used many times without damage to board or components.

170 Contacts.
1.80" x 1.40" x 0.375" high.

CAT# PB-170 | $2.50 each
10 for $2.00 each

400 contacts. 300 contacts on main board & 50 contacts on each of two power distribution strips. Distribution strips are removable. White.

CAT# PB-400 | $4.00 ea. • 10 / $3.75 ea.

Same specs as PB-400 above, but made of clear plastic.

CAT# PB-400C | $3.65 each
10 for $3.40 each

470 contacts plus two 70 contact buss strips, for a total of 610 contacts.
3 binding posts mounted on aluminum back plate, 5.92" x 3.75" x 0.43" high.

CAT# PB-610 | $12.50 each
840 contacts.

Dual row of buss terminals on each side of terminal strip. Double-sided adhesive tape backing. Holes for screw mounting. 2.2" x 6.5" x 0.38" high.

CAT# PB-840 | $7.65 each

1680 contacts.
2 terminal strips.
4 buss strips, 3 binding posts mounted on an aluminum back plate,
5 1/8" x 6 7/8" x 3/8" high.

CAT# PB-1680 | $15.95 each
3260 contacts.  4 terminal strips,  7 buss strips, 8 binding posts mounted on an aluminum back plate 7 7/8" x 8 3/4" x 3/8" high.  
**CAT# BH-3260**  
$32.00 each

**ARDUINO UNO PROJECT HOLDER W/ BREADBOARD**  
Keeps your Arduino Uno next to your breadboard so jumper wires stay in place when making changes. Includes 400 point breadboard with buss strips. Four threaded standoffs and screws securely mount Uno to plate. 160 x 106mm overall.  
**CAT# PBH-1**  
$9.50 each

**BREADBOARD POWER SUPPLY**  
YwRobot,  **Reduced Price** MB-V2 is a multi-purpose module that plugs into our solderless breadboards and provides 5V and/or 3V to the rails as well as other useful functions. Works with our breadboard, **CAT# PB-400** (sold separately). 32 x 54 x 25mm (1.26" x 2.08" x 0.86").  
**CAT# MB-PS**  
$6.75 each

**TERMINALS**  
**Test Leads**  
Set of red and black test leads with pin plugs. 18" long cables.  
**CAT# TL-112**  
$1.95 each

**BATTERY BOXES FOR BREADBOARDING**  
Completely enclosed with slide-off cover. Integrated On-Off switch, 6" leads with machined male pins for use with solderless breadboards.  
Holds three AAA batteries for 4.5Vdc power. 2.49" x 1.45" x 0.62".  
**CAT# BH-33A**  
$3.65 each

Holds three AA batteries for 4.5Vdc power. 2.69" x 1.90" x 0.72".  
**CAT# BH-AA3**  
$4.50 each

**TWEEZER TEST LEADS**  
A must for testing small, in-circuit components. Shrouded banana plugs fit most test meters. Tweezer marked with + and - symbols. 5.9" long tweezer probe. Overall length of leads, 24".  
**CAT# TL-126**  
$6.95 each

**JUMPER WIRE SETS**  
Pre-formed jumper wires for use with solderless breadboards. 14 color-coded lengths. AWG 22 solid wire. Unbreakable clear plastic storage case.  
**CAT# JW-350**  
$12.95 each

**ECONOMY TEST LEADS**  
Red and black lead set with banana plug on one end & pin probe on other end. 3 ft long.  
**CAT# TL-100**  
$2.80 per set  
10 for $2.55 per set

**TEST LEADS WITH PIN PLUGS**  
Set of red and black test leads with pin plugs. 22" long cables.  
**CAT# TL-112**  
$1.95 each

**TEST LEAD: BNC TO ALLIGATOR CLIPS**  
7" Mueller test cable. BNC male plug to red and black alligator clips.  
**CAT# TL-105**  
$6.95 each

**MINI-HOOK JUMPERS & PROBES**  
Mini-hooks are great for connection to parts in high-density areas. They give a firm, insulated connection  
**SET OF TWO 1 1/2" MINI HOOK JUMPERS**  
Two 18" long mini-hook patch cords. One black, one red, with 1.5" long mini-hooks on each end.  
**CAT# MTC-2**  
$3.25 each

**2" MINI-HOOK JUMPERS**  
Five 18" long mini-hook patch cords. Black, red, white, green and yellow.  
**CAT# MTC-5**  
set of 5 for $7.95