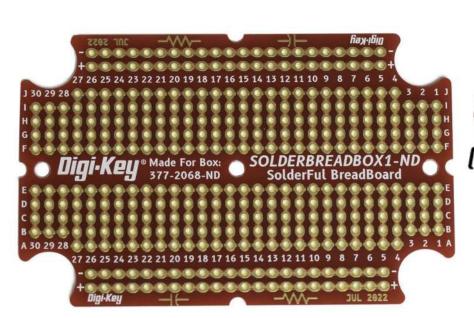


SOLDERBREADBOX1-ND

A Variant of the Original SOLDERBREAD#02-ND Made Specifically for the Box 377-2068-ND from Bud Industries





[BOX SOLD SEPERATLY]



Back Side Shown [Numbers are Reversed to Match the Front]

ENIG (Nickel Plated Gold) Plated Through Hole (PTH) Plating

0.1" (2.54mm) Pitch

0.04" [1.00mm] Solder Hole Diameter Mounting Hole Diameter 0.12" [3.00mm]

> 3.13"L x 1.97"W [79.6mm x 49.9mm] Size / Dimension

Board Thickness 0.063" [1.60mm] FR4 Epoxy Glass Material

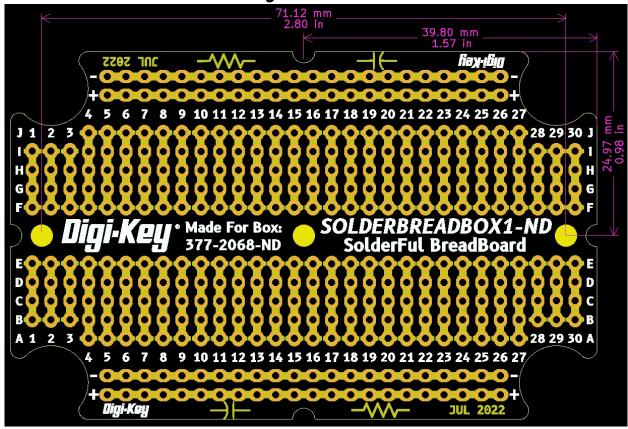
Page 2 Board and Mounting Hole Dimensions

Page 3 Dimensions of SMT & Regular Pad Gaps and LED Example

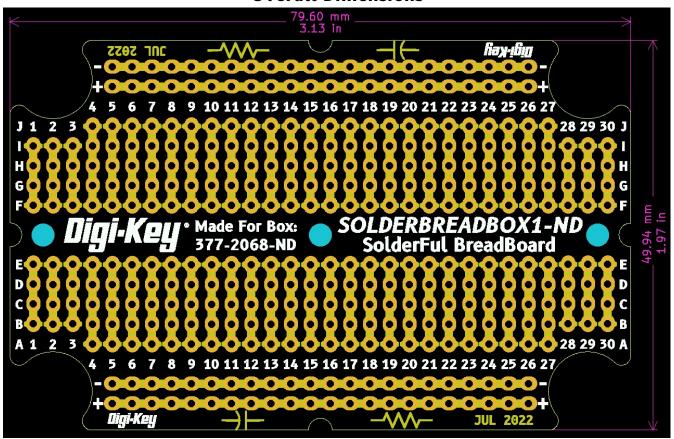
Page 4 The Cast of Parts Used

Page 5 How to Solder Two Terminal SMT Parts

Center Mounting Holes are 3mm Diameter

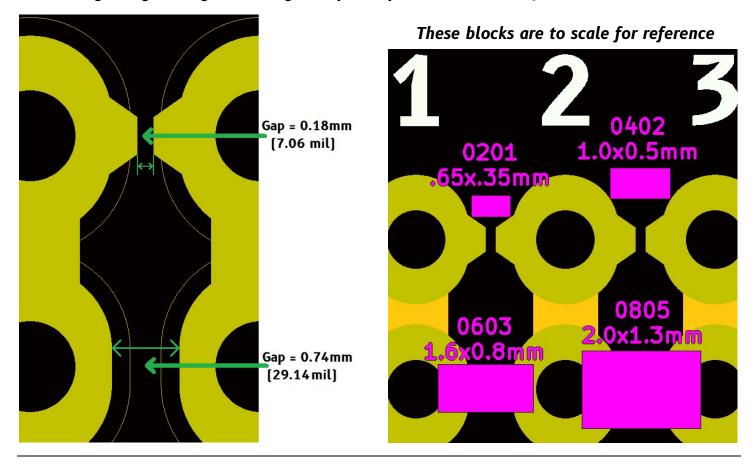


Overall Dimensions



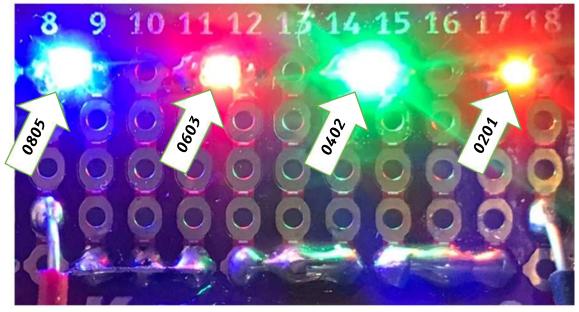
Surface Mount (SMT) size 0201 and larger.

Bridge neighboring nets using the special pads at each end of the numbered nets.



These LEDs were hand soldered as a test.

• Hand Soldering 0201 parts should be avoided, but it can be done.



The LEDs were powered in series at 10mA

Parts used:



0805 [2012 Metric]

732-4982-1-ND

Blue - 3.2V (Typ) - 2.00mm x 1.25mm

0603 [1608 Metric]

3147-B1911USD-20D000114U1930CT-ND

Red $- 2V (Typ) - 1.60mm \times 0.80mm$





0402 [1005 Metric]

732-11990-1-ND

Green – 3.2V (Typ) – 1.00mm x 0.50mm – Very bright, even at 1 mA

0201 [0603 Metric]

754-2027-1-ND

Orange – 2V (Typ) – 10mA – 0.65mm x 0.35mm

A Bonus LED

- Lit in series at 5mA



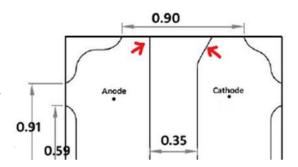


1214-MP-1616-2103-PGCT-ND

A 6V (Typ) 'Green' (Created by down-converting blue via phosphor like white LEDs are made)

At 148lm/W, this little 1.60mm² package puts out **a lot** of green-white light, so even with a few milliamps; it can be a unique indicator.

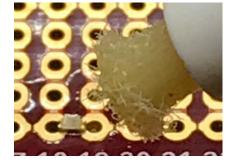
Be warned- their polarity markings are not obvious



How to Solder Two Terminal SMT Parts:

1. Place your part on pads [0603 used here]

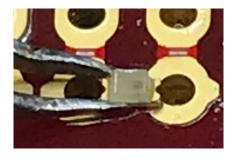




2. Add flux to one side of part and pad

3. Add solder to your iron





4. Hold the part with tweezers

5. Touch iron to 'fluxed' pad







6. Turn board around and repeat.

7. Clean flux off



0201 shown for scale next to the Registered Trademark symbol on the board.