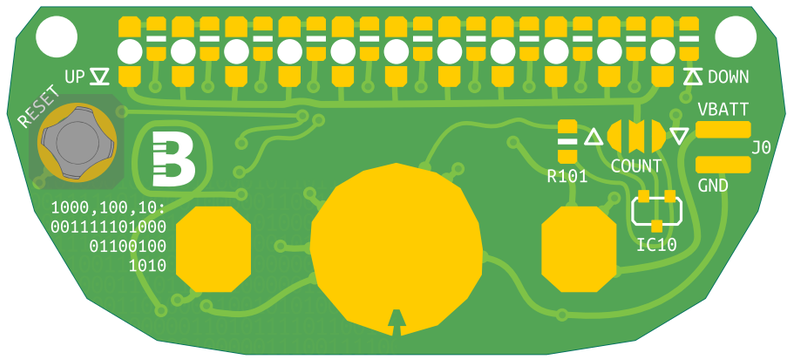
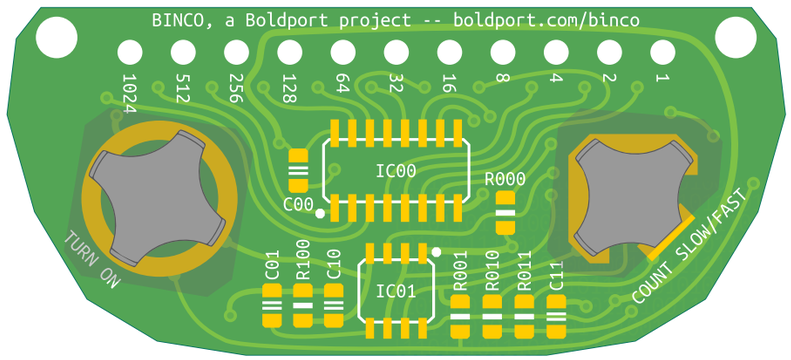


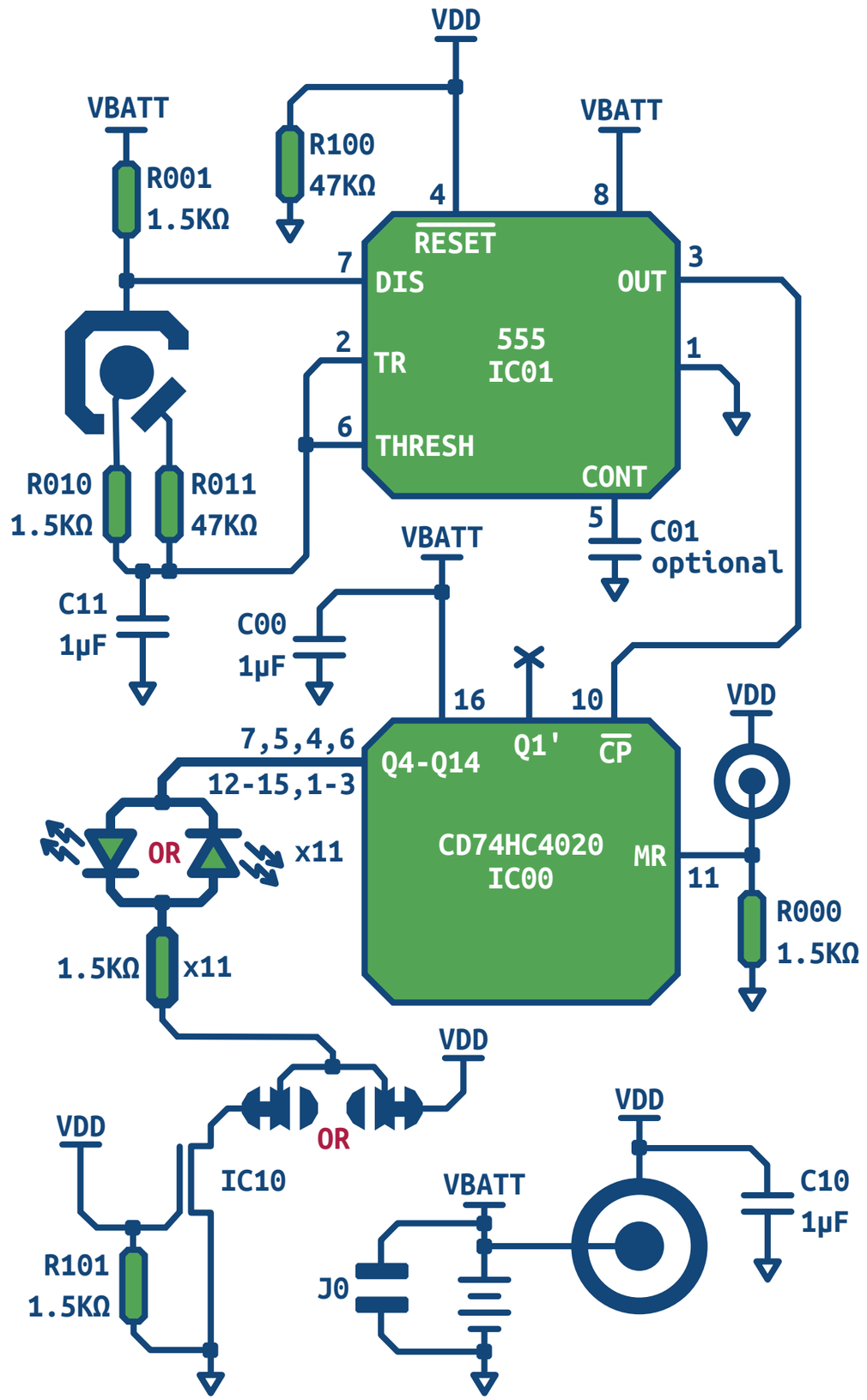


Domes kindly donated
by Snaptron
snaptron.com

boldport.com/BINCO

BINCO

A binary up or
down counter
soldering project



A Boldport design
with support from Snaptron

Choose whether you'd like BINCO to count up or count down.

This choice affects how the LEDs are oriented, and which side of the solder blob jumper to short

CONFIGURE TO COUNT UP

OR

CONFIGURE TO COUNT DOWN

Assemble:

C01: DNP (do not populate) rest are 1µF

R011, R100: 47KΩ, rest are 1.5KΩ

For IC01, the bar corresponds to pin #1.

Apply a little bit of solder to the central battery holder pad. J0 is optional and can be used for external power supply when the battery is removed.

If set to counting down, R101 and IC10 are optional.

For the buttons:
From the tape sheet cut a piece that's about 3mm oversized from the size of the button. First lay the tape on top of the button, only then align it to the pads and press firmly to stick the tape to the board.

For the SLOW/FAST button, cut a corner off to correspond to the shorter leg. That leg needs to align with the bar of the pad.

Pressing this button turns BINCO on. Keep pressing it while counting.

A light touch counts slow, a full press counts fast.

Pressing this button while the power button is pressed resets the counter

Operate:

Press down and keep holding the power button. A shallow press on the count button counts slow and a full press counts faster.

It's important to release the count button before releasing the power button. Also, do not press the count button when power button isn't pressed. (Can you figure out what happnes when you do; can you figure out why?)