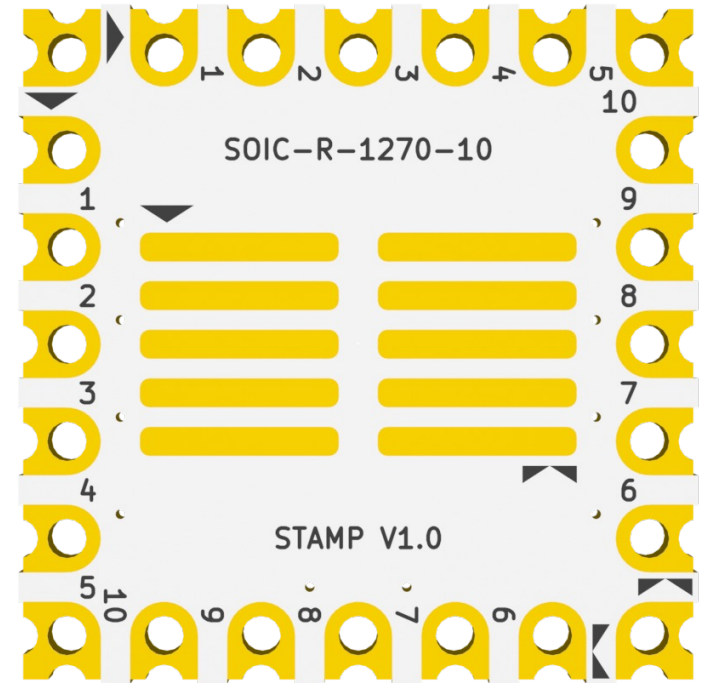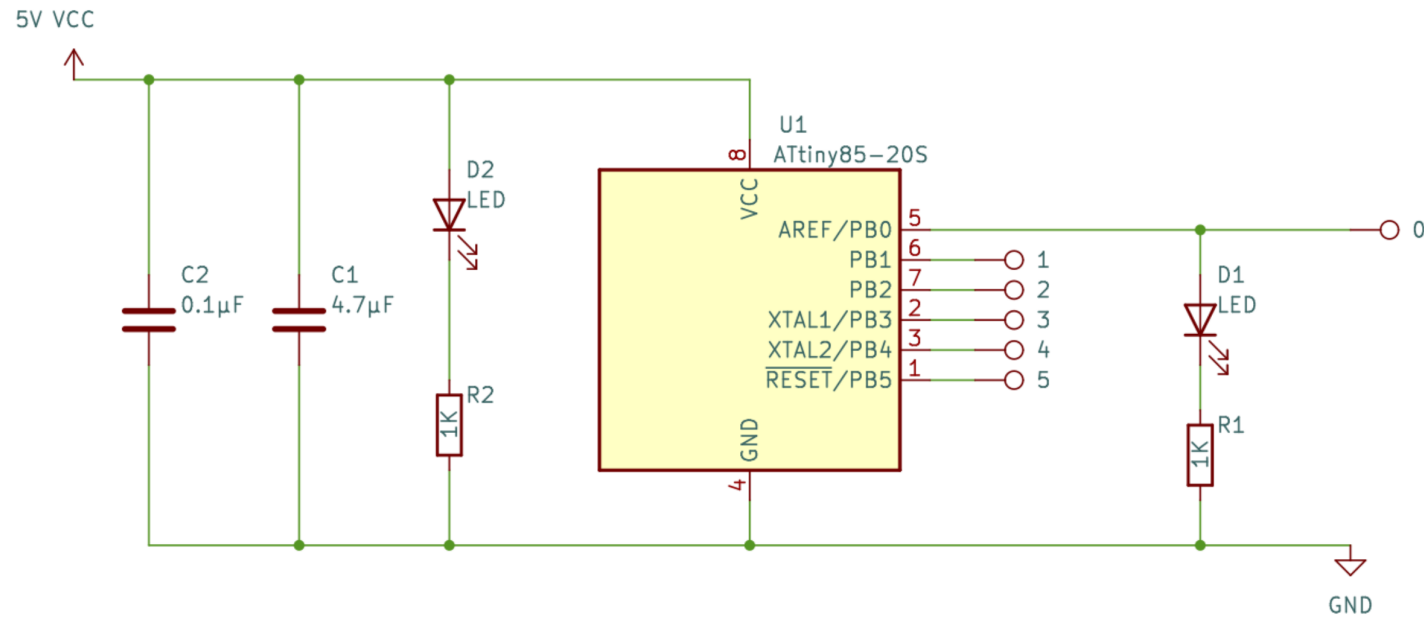# ATtiny85 Breakout Board Using Stamp
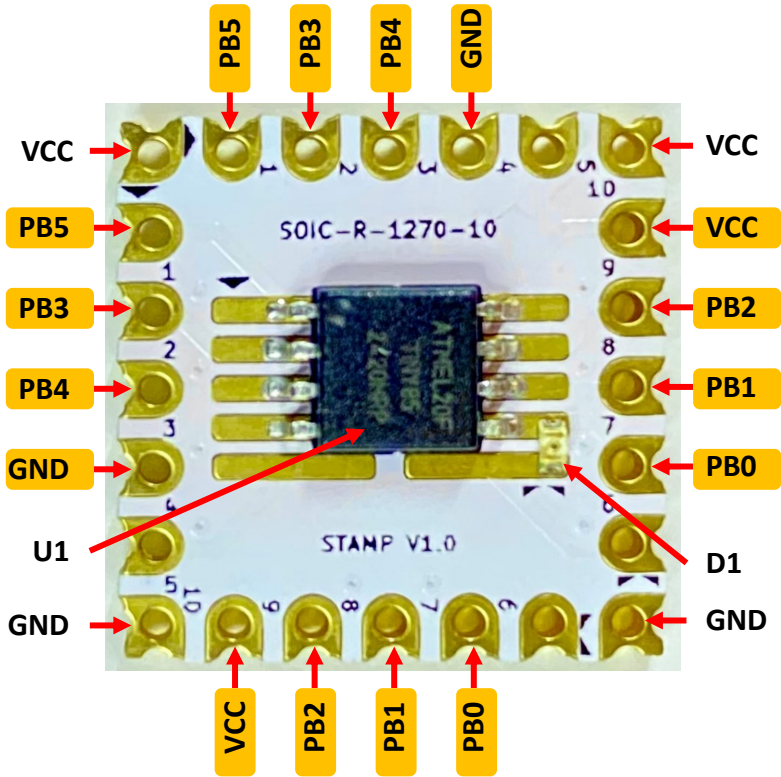
Version 1.0

ATtiny85

This circuit is built on a **SOIC-10 Stamp (SOIC-R-1270-10)** to match the ATtiny85's SOIC-8 package. The front-side layout of the Stamp is also optimised to accommodate 0603 components.
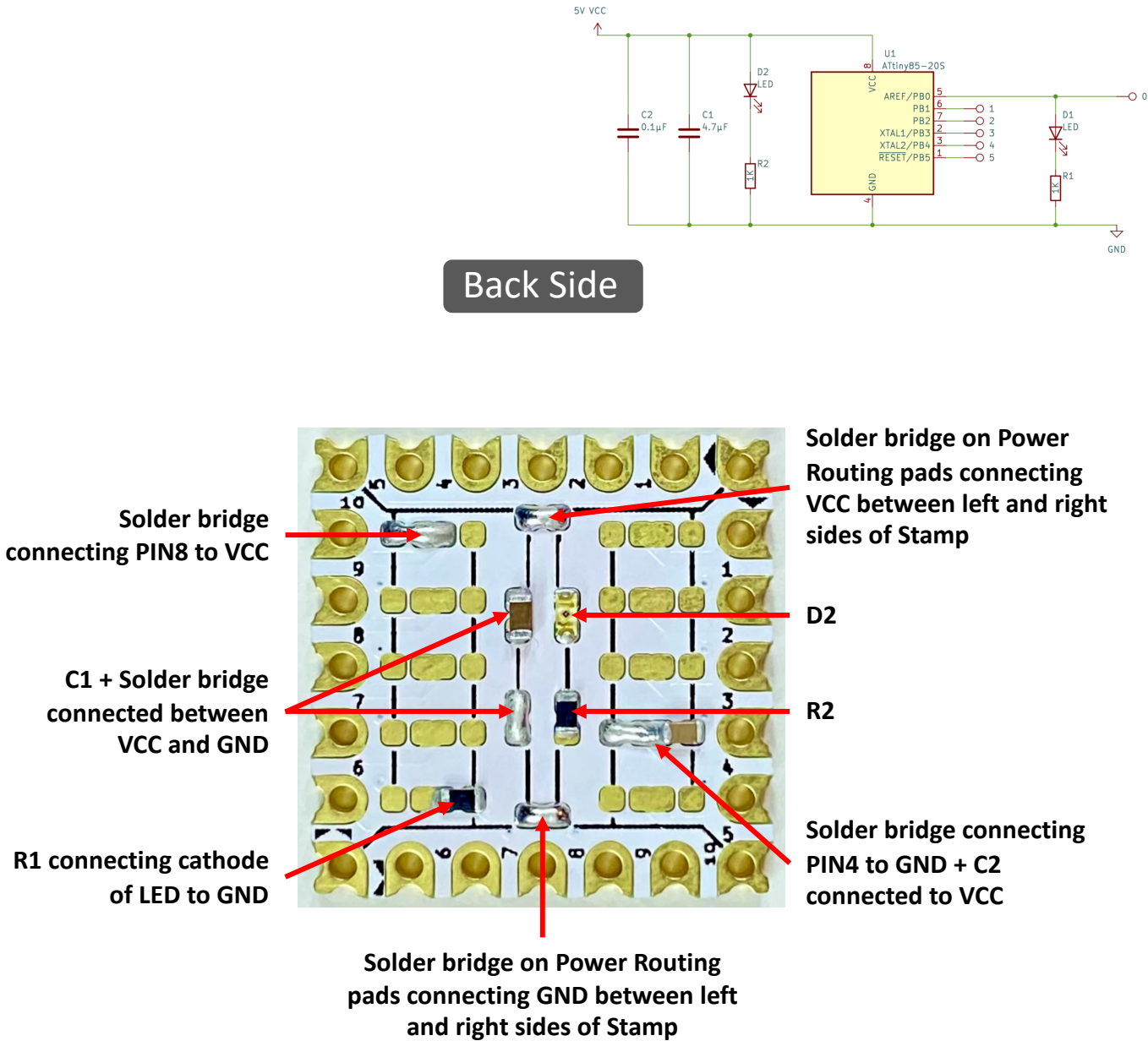
On the front side, the ATtiny85 is paired with a GPIO indicator LED (0603 package). Supporting components including resistors, capacitors, and a power indicator LED are placed on the back side (see next slide).

ATtiny85

Front Side

Pin labels (top, left to right): PB5, PB3, PB4, GND

Left side (top to bottom): VCC, PB5, PB3, PB4, GND, GND

Right side (top to bottom): VCC, VCC, PB2, PB1, PB0, GND

Bottom (left to right): VCC, PB2, PB1, PB0

Board markings: SOIC-R-1270-10, STAMP V1.0

Labels: U1, D1

Back Side

Solder bridge connecting PIN8 to VCC

Solder bridge on Power Routing pads connecting VCC between left and right sides of Stamp

C1 + Solder bridge connected between VCC and GND

D2

R2

R1 connecting cathode of LED to GND

Solder bridge connecting PIN4 to GND + C2 connected to VCC

Solder bridge on Power Routing pads connecting GND between left and right sides of Stamp

Schematic labels: 5V VCC, C2 0.1µF, C1 4.7µF, D2 LED, R2, U1 ATtiny85-20S, VCC, AREF/PB0, PB1, PB2, XTAL1/PB3, XTAL2/PB4, RESET/PB5, GND, D1 LED, R1, GND

ATtiny85