Promask and Prolegend With CircuitPro

Requirements

Circuit Pro 1.5 revision 164 or higher
1-2 pieces of transparency paper
Laser printer with manual load tray
1 set of calipers (millimeter)
Promask or Prolegend kit
UV light table
Convection oven (80C-160C)

Process Steps

1. Calibrate printer
   Note: This only needs to be completed the first time. However, if you upgrade computers, upgrade Circuit Pro, or change printers, you will have to repeat this step.
   a. Go to the file menu and select “print”.
   b. Go to the settings tab
   c. Click on the 1:1 ratio button.
   d. Press the apply button.
Go to the printer calibration tab.

Press the “print calibration rectangle”.

*Note: This will print on a standard piece of printer paper.*

- Adjust print parameters
  - With a set of calipers, measure the length and width of the rectangle.
  - Enter the measurements into the printed size column.
  - The correction factor will adjust itself.

Place a check in the “use calibration” check box.

- Press the print calibration rectangle button again.
- Re-measure the rectangle as you did previously. Adjust print parameters as necessary.
2. Import Soldermask and Silkscreen layers.
   a. Press the Import icon.
   b. Find and select the soldermask and/or silkscreen layers.
   c. Press open.
   d. Change the layer/template column to match your layer’s name to Circuit Pro layer name.
   e. Press ok.
   f. Single click on the soldermask top layer in the layer list on the left.
   g. Left click on the desired layer in the layers list.

Note: All objects on the selected layer will become highlighted.
h. Press the move icon.

i. Click and drag the top layer to the side, either vertically or horizontally.

3. Print Solder mask or Silkscreen on transparency sheet.
   a. Go to the file menu and select print.
b. Go to the page set up tab
c. Change the paper source from automatic to tray 1.
d. Press apply

e. Manually load the transparency into tray 1 on the printer.
f. Go to the settings tab.
g. Verify that the ratio is 1:1.
h. If printing for a silkscreen, check the inverse check box and press apply.

i. Press the print button.

5. See Promask/ProLegend manual or quick start guide on the bottom side of the Promask/Prolegend kit for steps to apply solder mask or silkscreen to your board.