B站视频教程: https://www.bilibili.com/video/BV1KK411s7sj?t=307.8
快捷键: https://blog.csdn.net/lgcpcb/article/details/93139476

> 扫描仪 推荐
>
> 
>

> 软件:
> QuickPcb2005
> PS
> AD

1. 扫描图片

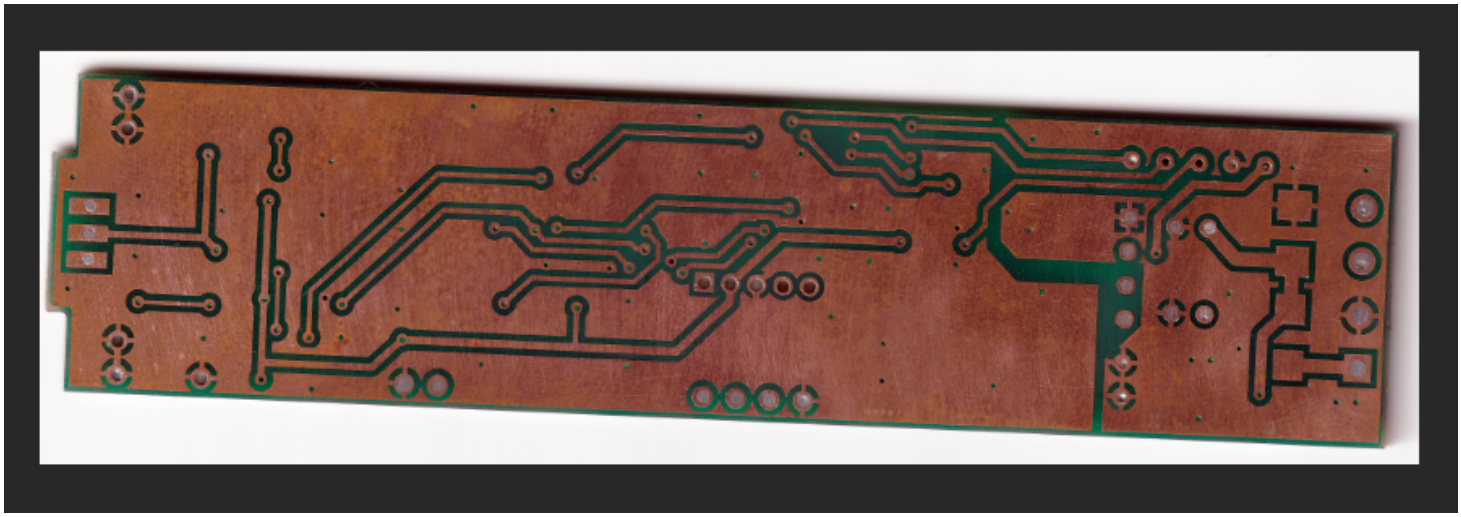
通过扫描仪获取到图片

demo00_raw_b_104mm_23mm.jpg

demo00_raw_t_104mm_23mm.jpg

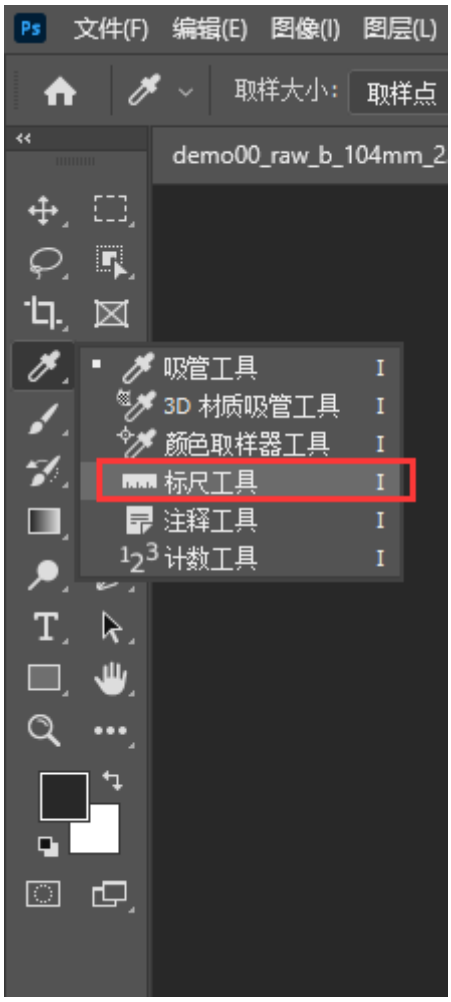
2. 修图

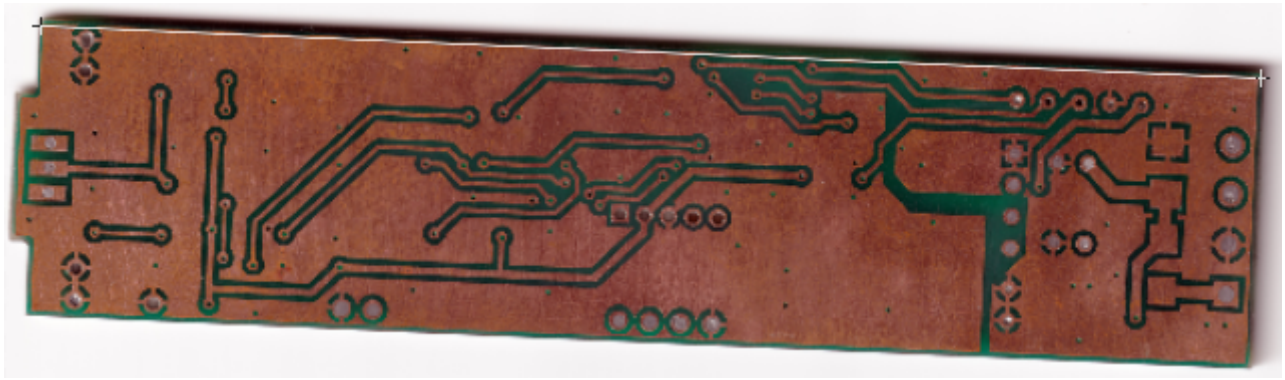
导入图片

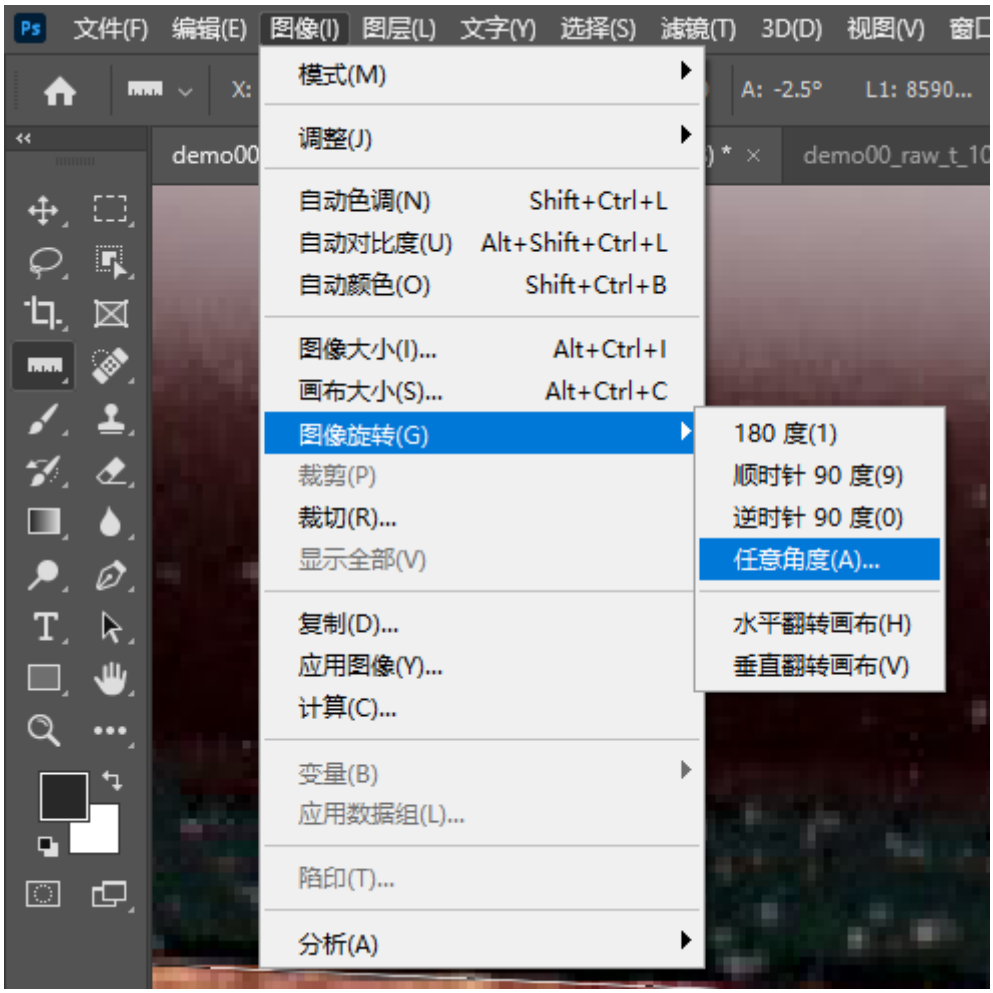


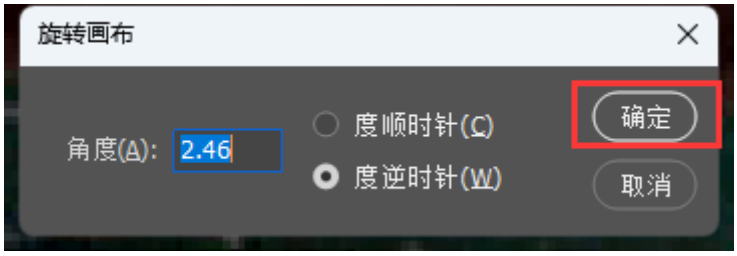
2.1 图片修直

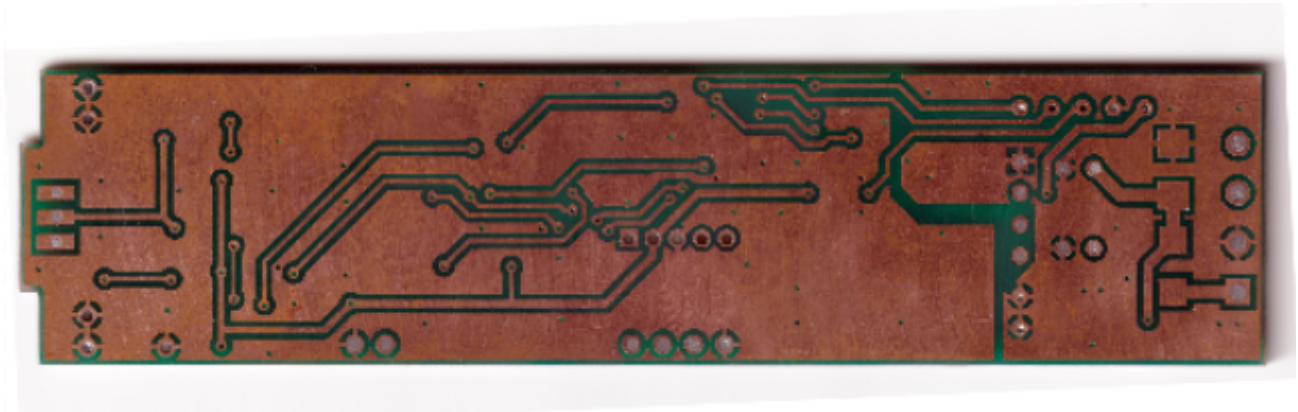
> PS快捷键
> 放大缩小: alt+滚轮
> 调整图片大小: ctrl+T


文件(F)
编辑(E)
图像(I)
图层(L)
取样大小:
取样点
demo00_raw_b_104mm_2
吸管工具 I
3D 材质吸管工具 I
颜色取样器工具 I
标尺工具 I
注释工具 I
计数工具 I

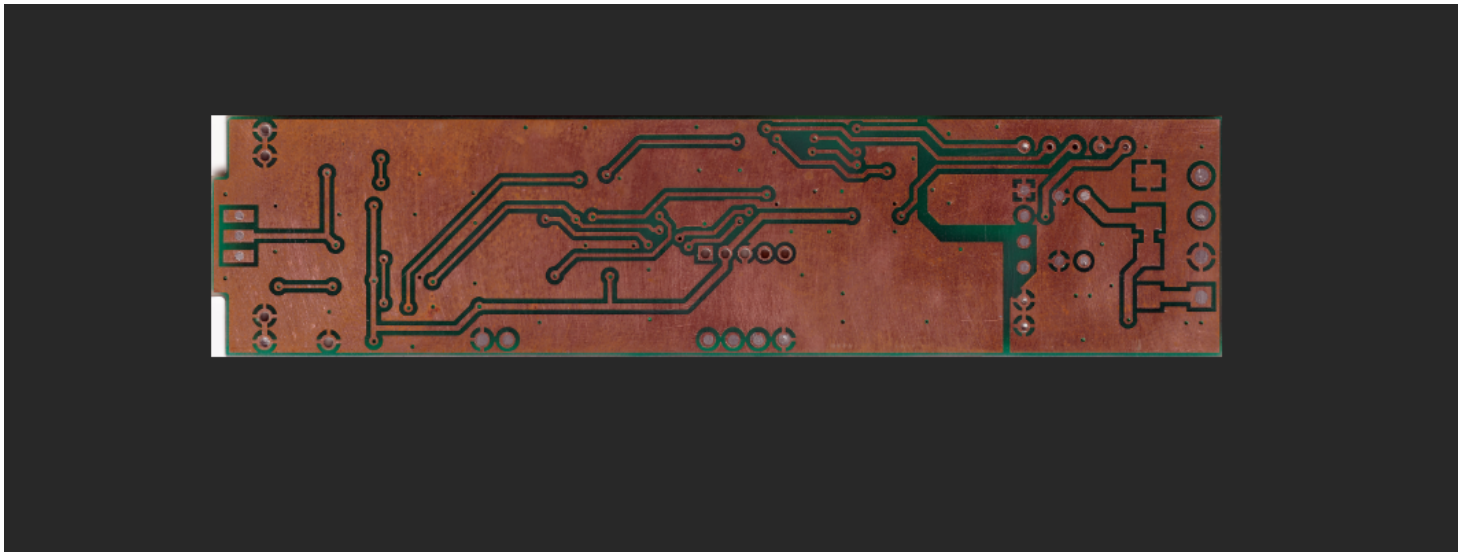



文件(F)
编辑(E)
图像(I)
图层(L)
文字(Y)
选择(S)
滤镜(T)
3D(D)
视图(V)
模式(M)
调整(J)
自动色调(N) Shift+Ctrl+L
自动对比度(U) Alt+Shift+Ctrl+L
自动颜色(O) Shift+Ctrl+B
图像大小(I)... Alt+Ctrl+I
画布大小(S)... Alt+Ctrl+C
图像旋转(G)
裁剪(P)
裁切(R)...
显示全部(V)
复制(D)...
应用图像(Y)...
计算(C)...
变量(B)
应用数据组(L)...
陷印(T)...
分析(A)
180 度(1)
顺时针 90 度(9)
逆时针 90 度(0)
任意角度(A)...
水平翻转画布(H)
垂直翻转画布(V)


旋转画布
角度(A): 2.46
度顺时针(C)
度逆时针(W)
确定
取消

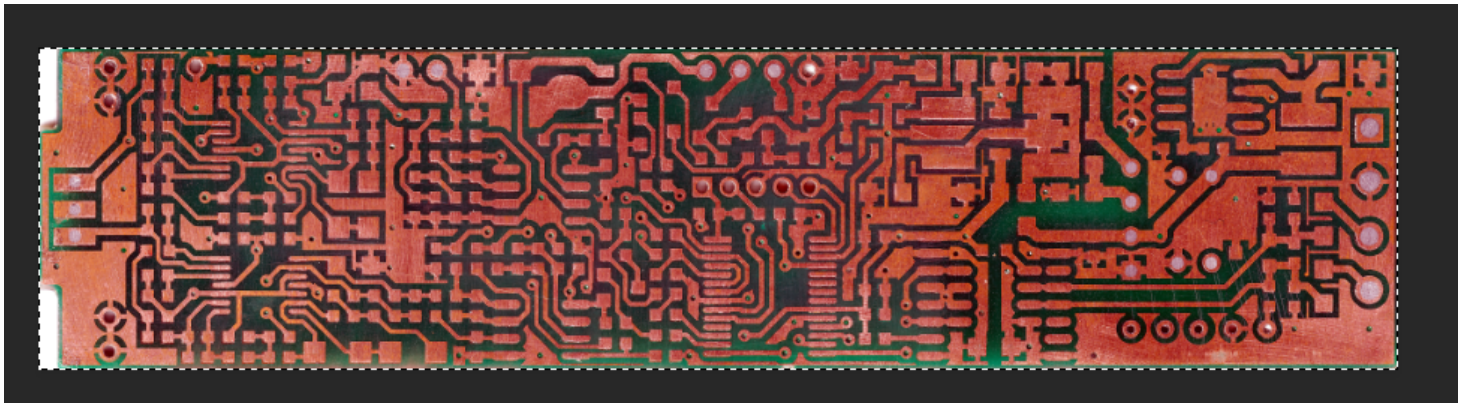


2.2 裁剪掉多余部分



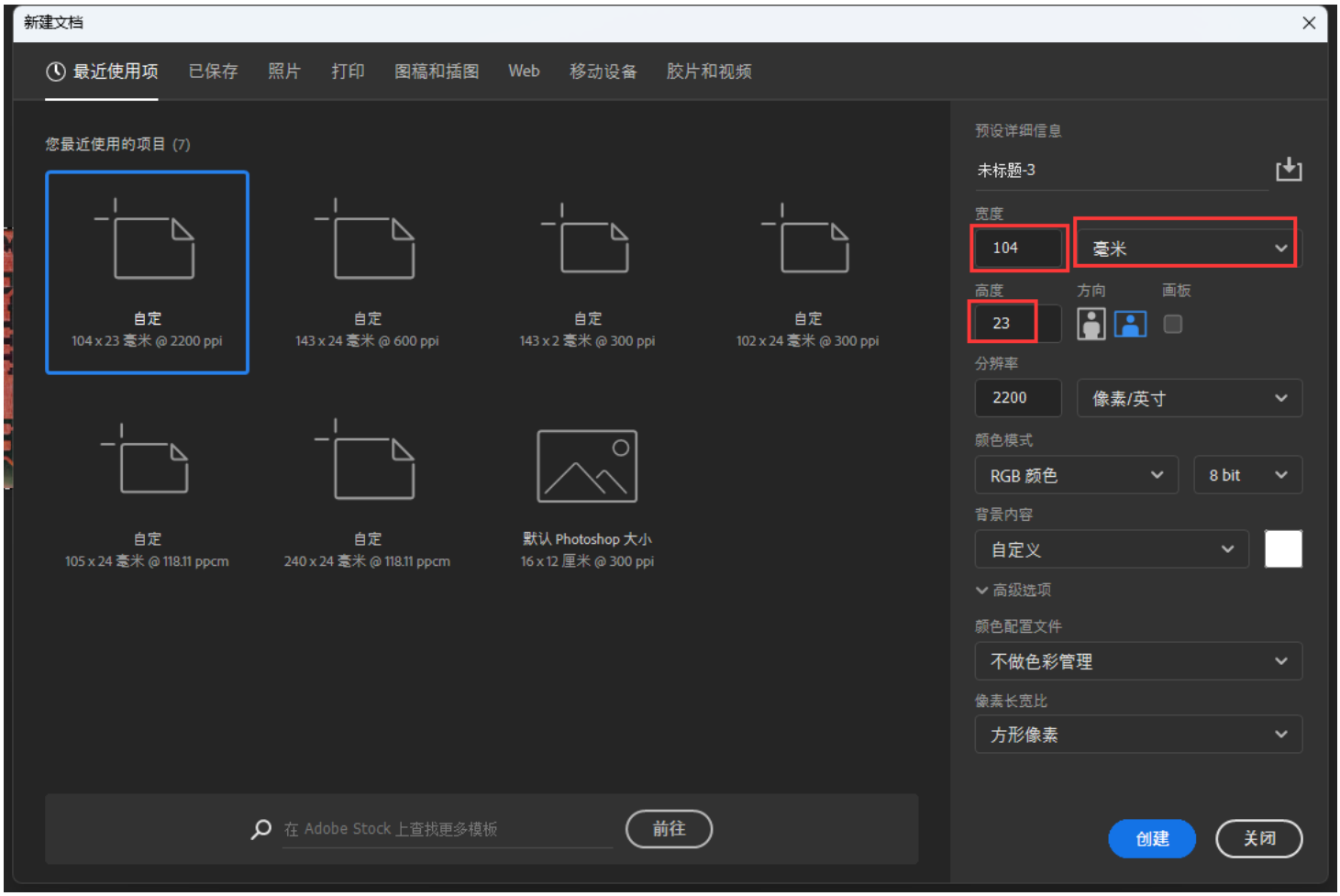
2.2.1 重复处理另外一面

图片修直-> 裁剪掉多余部分

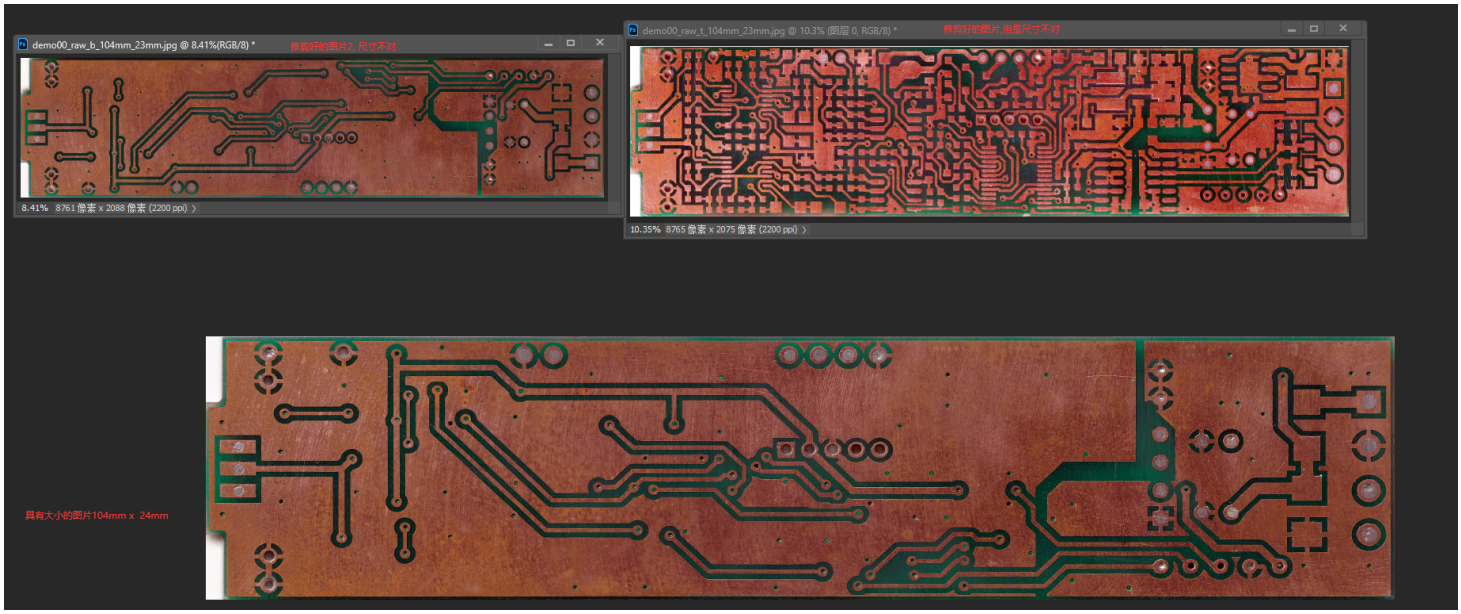


2.3 新建尺寸图

用卡尺测量出PCB的长宽, 上图中的PCB的长为104mm, 宽为23mm



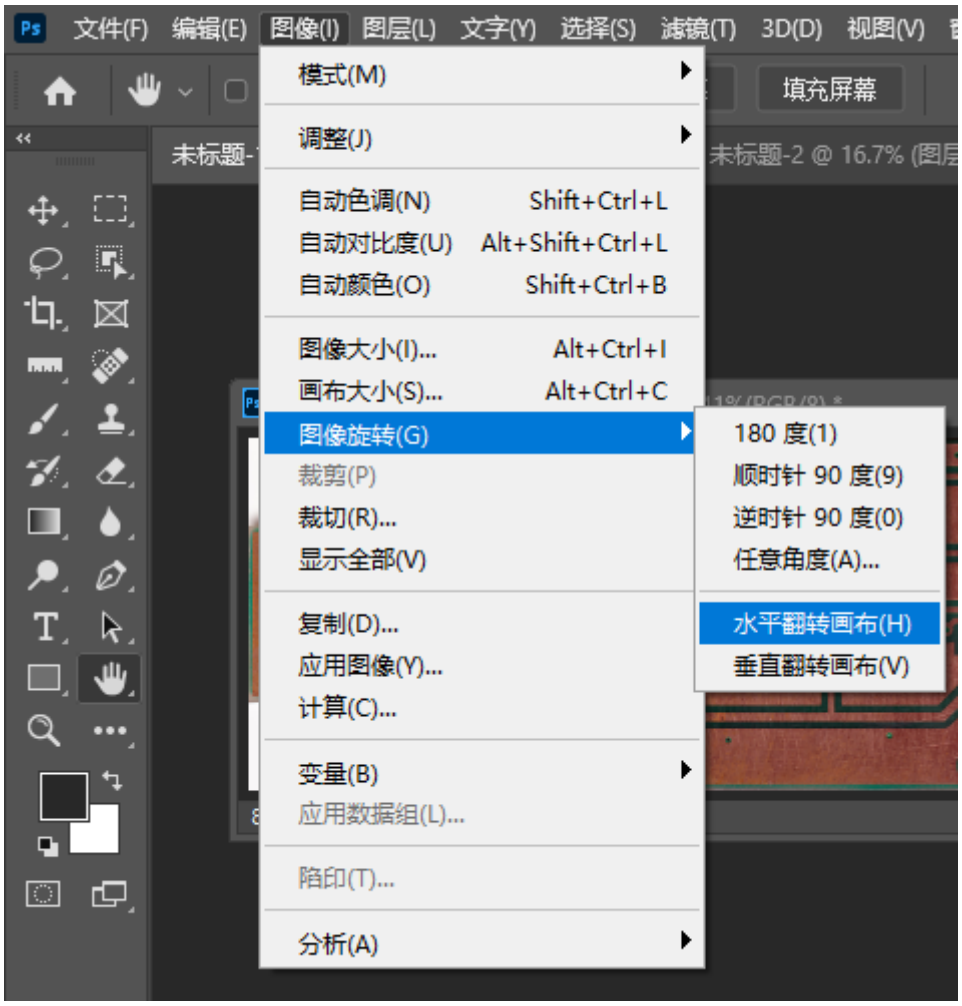
将修剪好的两个图片复制到具有大小信息的新建文档中, 拖拉调整对其



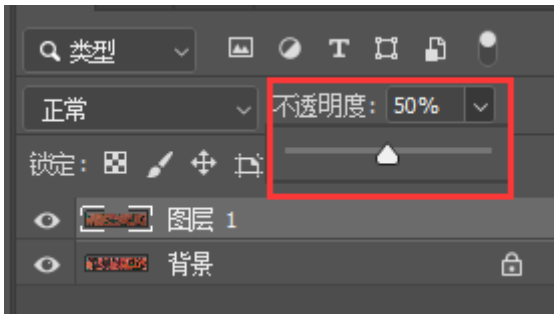
重复操作将两层都都处理好(使得都具有大小信息), 分别对应两个不同的涂层.

2.4 图层对齐

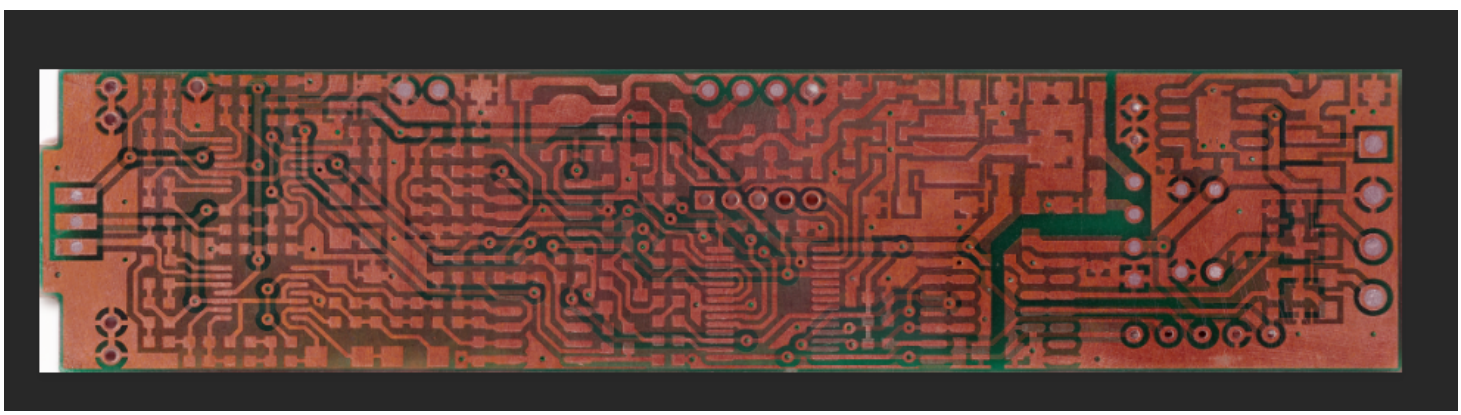
对齐的时候会发现有一面是镜像的, 需要进行翻转.(根据实际情况进行翻转(垂直/水平))



对齐操作之前, 先进行不透明度调整, 调整为50%左右, 可以看到上下层, 利用过孔或者焊盘进行对齐.



拖动涂层调整对齐后分别对图层进行保存.

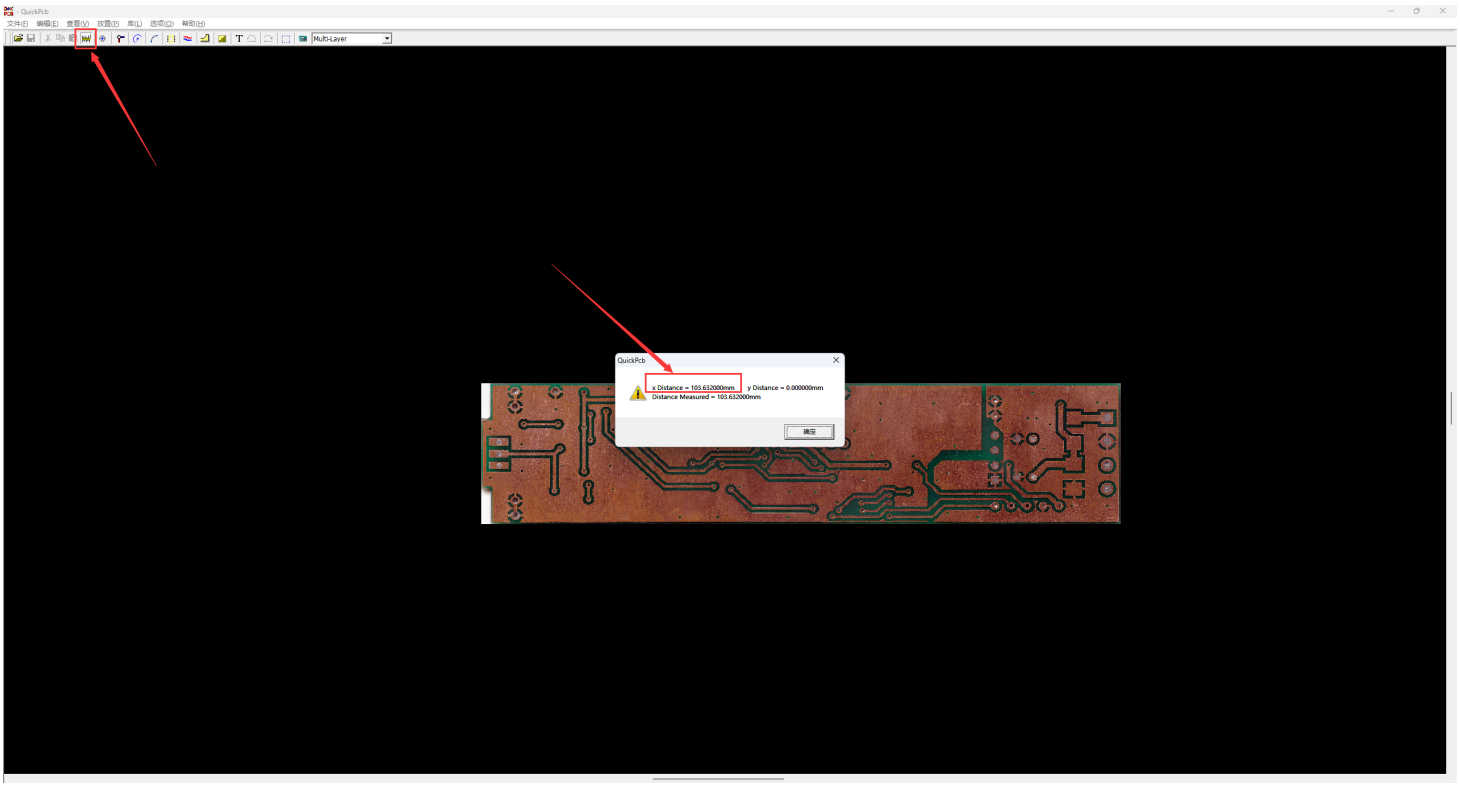


保存格式为 .bmp 格式, 方便导入到quickPCB中

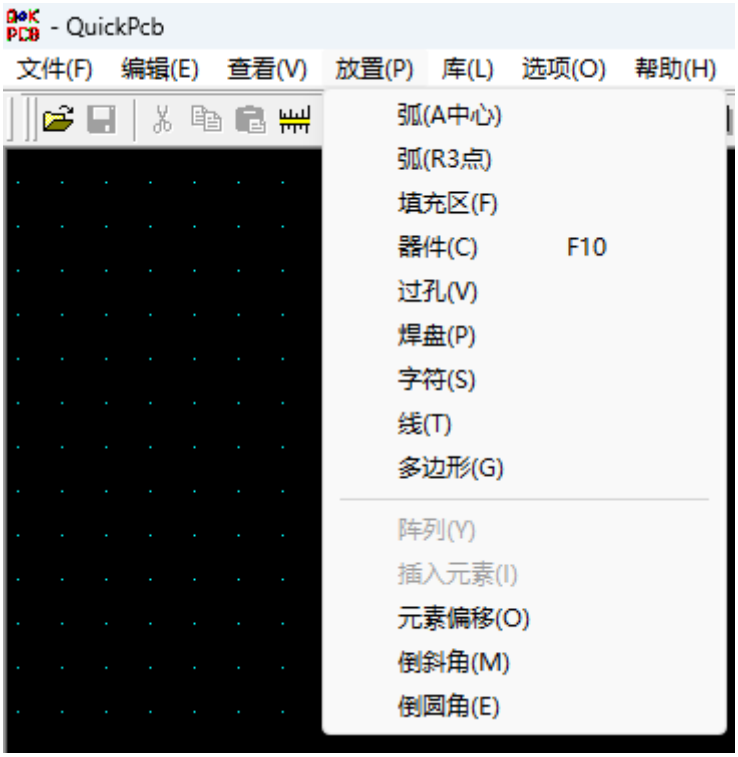
3. 导入QuickPCB

打开底图

测量尺寸查看是否正确.



根据PCB进行放置相应器件



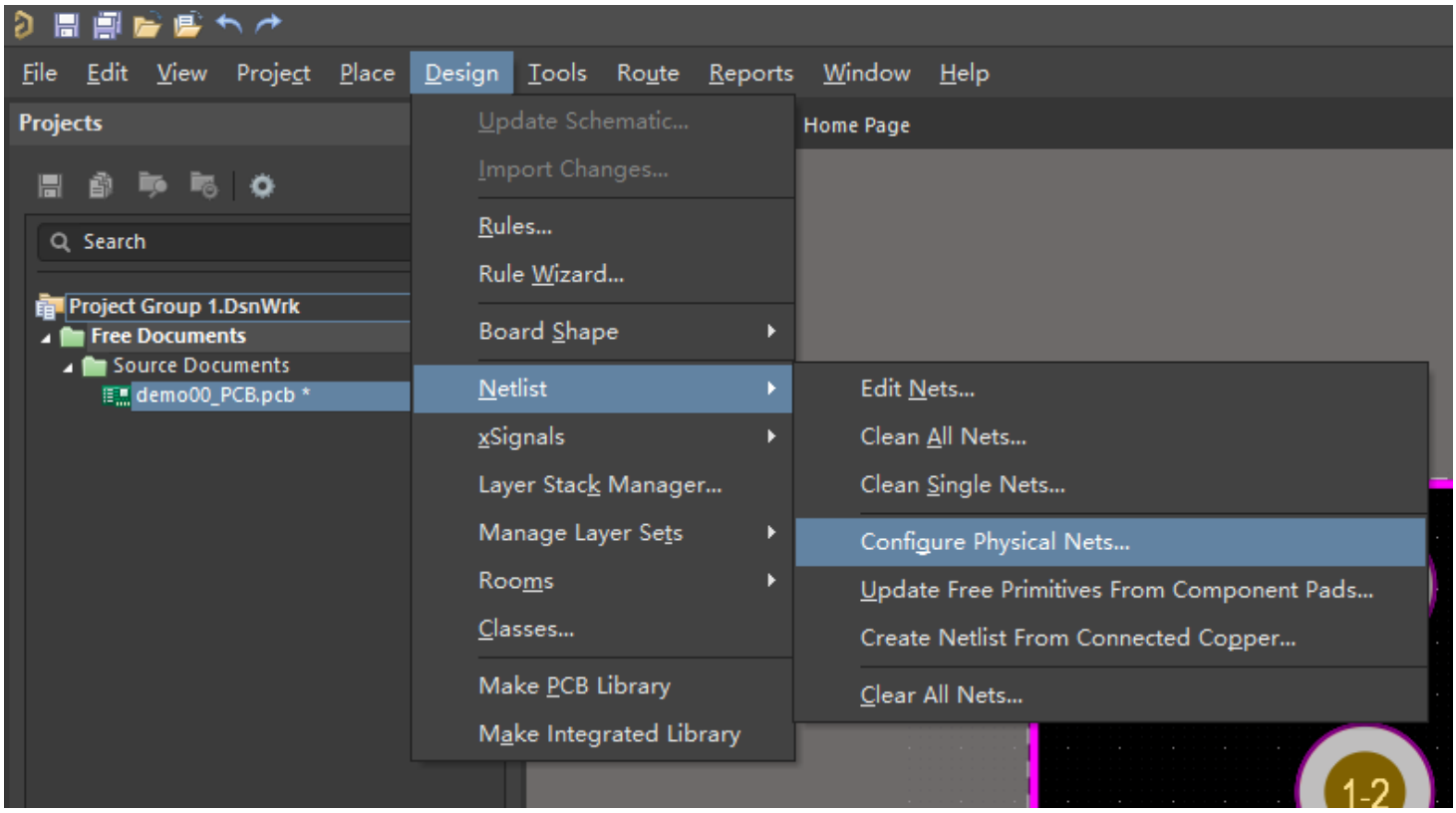
4. 连线

放置完元件后, 将元件进行连接. 顶层和底层走线. , 走线完成后画板框.

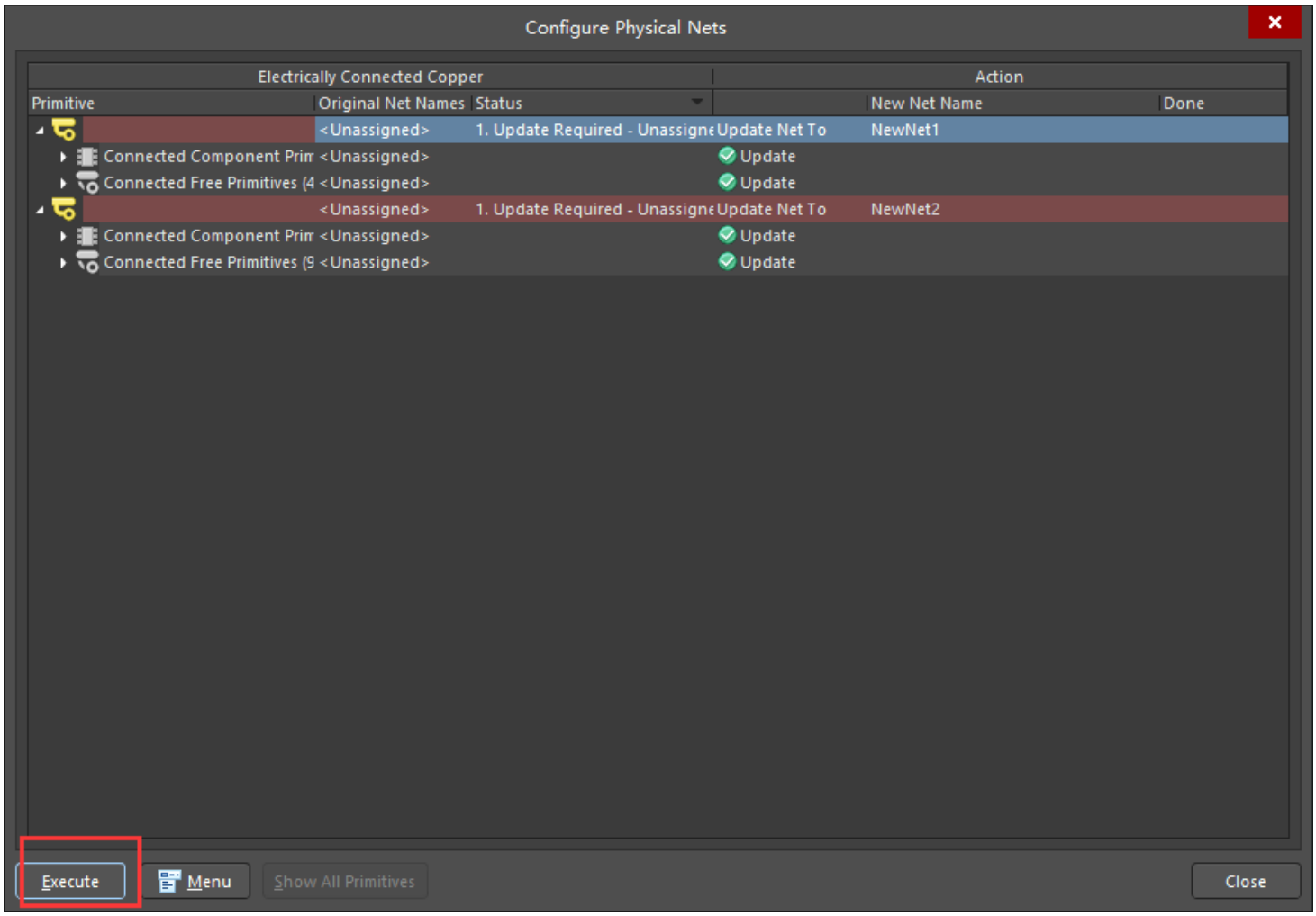
5. 导出PCB

走线完成后将数据导出为pcb文件

6. 导入AD


File Edit View Project Place Design Tools Route Reports Window Help
Projects
Search
Project Group 1.DsnWrk
Free Documents
Source Documents
demo00_PCB.pcb *
Home Page
Update Schematic...
Import Changes...
Rules...
Rule Wizard...
Board Shape
Netlist
xSignals
Layer Stack Manager...
Manage Layer Sets
Rooms
Classes...
Make PCB Library
Make Integrated Library
Edit Nets...
Clean All Nets...
Clean Single Nets...
Configure Physical Nets...
Update Free Primitives From Component Pads...
Create Netlist From Connected Copper...
Clear All Nets...
1-2

配置网络



保存文件: 另存为-> `.pcbDoc`