PCB Order Guideline

About Our PCB Printing Service:

- We accept **single and double layer** PCB.
- There's a size limit but no limitation on the number of Components, Pads and Vias.
- We Print PCB on **Glass Fiber** board.
- We don't put **copper plating inside Vias** of double layer PCBs. The customer is supposed to solder wires in the Vias to make them conductive.

PCB Section Contact:

Phone: 01708 166 104 (available from 9 am to 6 pm, excluding holidays)
E-mail: pcb@techshopbd.com

PCB Design Characteristics and Limits:

Before sending a design file to us, please make sure that it follows the following characteristics. Otherwise we might not be able to make the PCB or make it incorrectly.

Maximum Size: 10.5 Inch/ 266 mm (length) and 7.5 Inch/ 190 mm (width)
Minimum Size: 1 Inch/ 25.4 mm (length) and 1 Inch/ 25.4 mm (width)
Shape: Only rectangular shape is accepted
Clearance: 30 th/ 0.76 mm minimum for pad-pad, pad-trace, trace-board edge, pad-board edge. And 20 th / 0.5 mm minimum for trace-trace
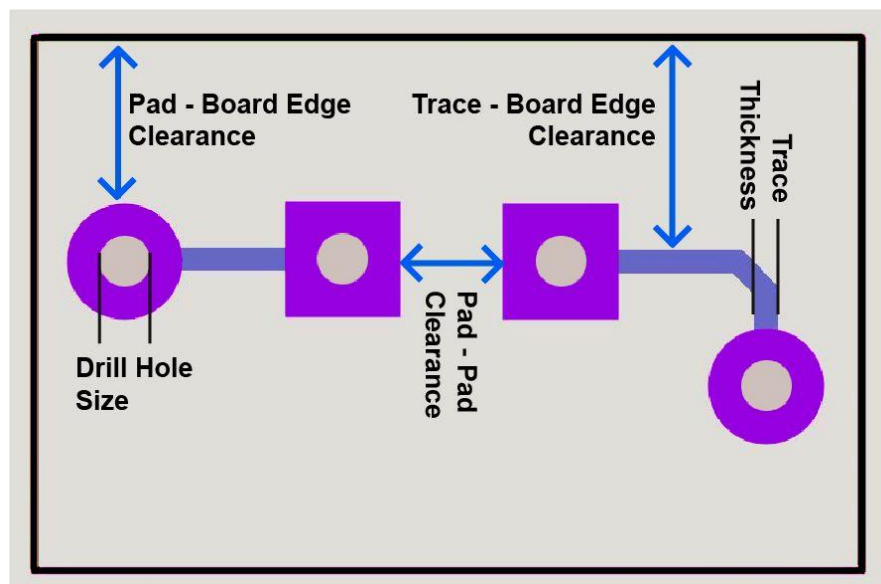**Trace Thickness:** 30 th/ 0.76 mm minimum
Pad size: 70 th/ 1.77 mm minimum (via, hole for through-hole components)
Drill Hole size: 30 th/ 0.76 mm minimum, 120 th/ 3.04 mm maximum (via, hole for through-hole components)
Drill Mark: must be same as drill hole
Others:
- Design must have a board edge

- No limit on the number of pads, vias and components

How to Place PCB Order?

Step 1: Log in to your Techshopbd account. Create one if you don't have one. You cannot order PCB without a Techshopbd account.

Step 2: Select PCB layer (single layer or double layer) depending on your design.

Step 3: Choose if you want green masking (Your design must have "Resist" layer if you want masking).

Step 4: Enter PCB length and width (you can get these dimensions from your design software).

Step 5: Choose number of PCBs.

Cost of your order will be calculated and shown to you now.

Step 6: Upload your PCB design file. We accept file in .zip (with multiple PDF files inside for), .pdsprj (proteus file) and .brd (Eagle file).

Step 7: Click on the "Add to Cart" button.

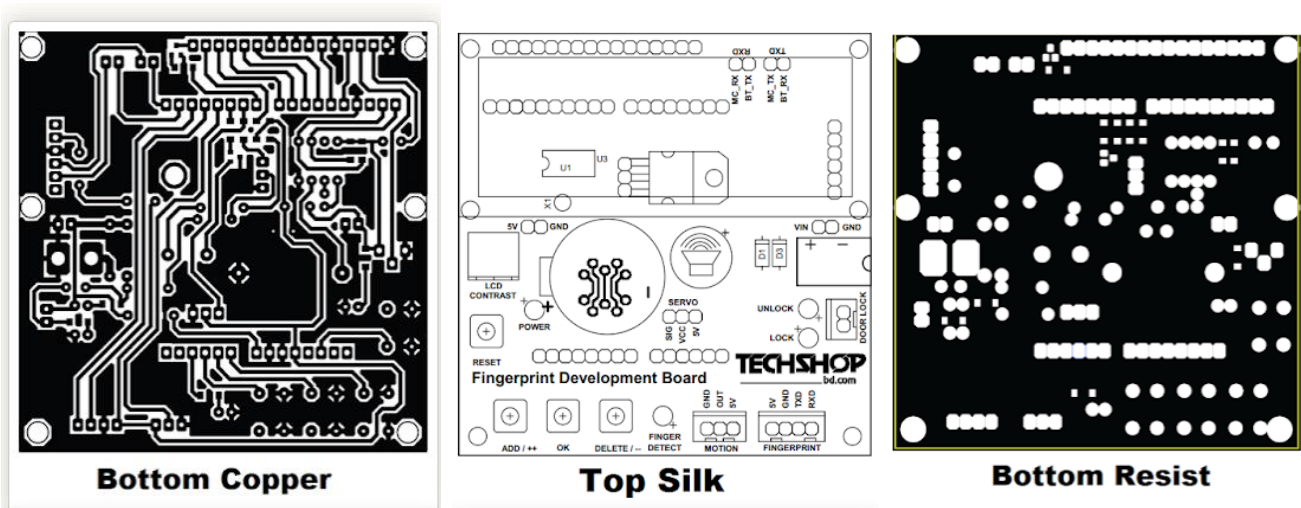**You can order multiple PCBs in one order. To do that, follow the previous steps for each PCB.**

Design File

- If you've used Proteus or Eagle to design PCB, you can send us your original design file without any conversion (.pdsprj/ .brd).

- If you've used any other software or simply don't want to share your original design file with us, you can convert them to PDF. While converting, make sure that the scaling ratio is 100%.

- **We don't accept Gerber files.**

- In case you choose to send PDFs, you've to create multiple PDF files and send us a .zip file containing them. The PDF files must be on black and white.

- In case of PDF files, If you don't have any Silk layer in your design, you must put some text in your copper layer for us to understand the orientation.

- As PDFs, the following files has to be provided. **Any file of the bottom layer must be flipped horizontally (mirror).**

PCB Files	Single Layer	Single Layer with Masking	Double Layer	Double Layer with Masking
Top Silk	Optional	Optional	Optional	Optional
Top Copper			√	√
Top Resist				√
Bottom Silk			Optional	Optional
Bottom Copper	√	√	√	√
Bottom Resist		√		√

Here's an example. Your files should look like the following.

Bottom Copper

Top Silk

Bottom Resist

Modifying Design File:

When you send us a design file while ordering PCB, it gets stored on our website. You can change the design file (from My Account >My PCB Orders) as many times as you want **before** we call you for verification and start the printing process. You won't be able to change/ modify the design file once your order status turns into "printing" or "shipped".

Privacy and Security of Design File:

We **DO NOT share** your design file(s) with any 3rd party entity. As our website is secured with SSL technology, there's no way your files can be accessed by anyone except us. You can be assured of the security of your design file(s).

Additional Notes:

- We only print PCBs based on your design. We **don't make PCB designs** ourselves for customers.
- If you made any error in your design, we won't edit the design to correct the error.

- There's **no urgent delivery** service. It'll take a number of working days for us to print the PCB(s) after receiving order from you.
- **The total number of days to print** your PCB(s) will vary based on the size, quantity and layer. We'll inform you about the duration when we call you for verification of your order.