

# Self-Service PCB Lab

To be allowed to access the "Self-Service PCB Lab" you need to follow a training course given by the ACI staff.

- Duration: around 2 hours
- Participants: between 1 -4
- Location: ELE 040

If you have any question or to register to the training please send an email to: [pcb@epfl.ch](mailto:pcb@epfl.ch)

## What you can do

### Price of material:

- Private usage: 1.50 CHF per dm<sup>2</sup>
- EPFL project: free

### Material:

- FR4 only

### Material thickness:

- 0.1, 0.5, 0.8, 1.6, 2.4

### Copper thickness:

- For 0.5: 12 µm and 17 µm
- For 0.1, 0.8, 1.6: 12 µm and 35 µm
- For 1.6: 135 µm
- For 2.4: 17 µm and 35 µm

### Plate dimensions:

- Minimum 100 x 150 mm
- Maximum 230 x 280 mm

### Drills available:

- 0.6, 0.8, 0.9, 1.0, 1.1, 1.25, 2.0, 2.5 mm

### **Tracks and space between tracks width:**

- 150  $\mu\text{m}$  minimum for a copper thickness between 12 and 35  $\mu\text{m}$
- 400  $\mu\text{m}$  for a copper thickness of 105  $\mu\text{m}$

### **The pad diameter must be 0.6 mm bigger than the hole**

### **Maximum thickness that can be cut with the cutter: 2 mm**

### **Copper finish only**

#### **Films**

- Digital printing can be done at repro (BP 0 243 - Tél. 34294)
- You need to provide:
  - PDF file
  - Maximum resolution is 2400 dpi but ideal is 1200 dpi
- Ask for a print using Black only and mention it is for PCB.
- Price is 1.05 CHF per A4 film

### **What you can't do**

**Metallization (this means that you will have to solder a wire to connect both sides of the PCB)**

**Any other finishes than copper**

**Silk-screen**

**Solder Mask**

**Complex shape ( $\neq$  rectangle)**