



PCB proto – the PCB prototype service from MakeMyPCB

“PCB proto” – the idea!

MakeMyPCB offers its customers a simple, no fuss, fast prototyping service. Your data is analyzed and once we have checked that your data complies with our technical spec, the board goes in production.

We ignore typical remarks and options used for series production (peelable mask, via-filling, specific finishes, soldermask colors, etc...) as these options are not crucial for making a functional prototype. This way we can achieve fast deliveries at attractive prices.

What do you get?

- 2 boards in 5 days - 2 or 4 layers
- fully-finished with 2 solder-masks and 1 silk-screen
- lead-free finish (our choice of immersion silver, electroless nickel immersion gold or lead-free hot-air levelling)
- FR-4 - RoHS compliant material optimised for lead-free soldering with standard build-up
- special **“PCB proto”** prices
 - For example: 2x 2-layer boards (4 x 3 inches) = \$45.30 each
 - 2x 4-layer boards (4 x 3 inches) = \$91.80 each
- No tooling charges
- No minimum order charge
- 100% manufacturability check prior to production
- Bonus board
 - To make 2 boards we launch 3. If the third board is good we ship it to you free of charge

How to get prices and place orders?

Log in and go to [Place order](#). Enter number of layers and dimensions and that's it - nothing more. You see the price at once. Attach files and the order is placed.

New user?

Not yet signed up to **MakeMyPCB** and our other low-cost online services? Just go to [Sign up](#) and fill in the short form.

How do we keep “PCB proto” prices down?

MakeMyPCB are specialist manufacturers of prototype and small batch PCBs. We are experts in order-pooling. Placing different orders on a standard production pooling panel minimizes set-up and production costs so you get good prices and no tooling charges. For **“PCB proto”** we use newly-developed automated design analysis algorithms. These allow us to cut board verification costs and still do 100% check on your data before manufacture to make sure that you get the boards you want.

Number of layers	2, 4
Maximum PCB dimension	16.73"x16.73"
Minimum PCB dimension	0.79"x0.79"
Base material	FR-4, Td>=325°C, T260>=60', T288>=5', CTEz=<3.7%, Tg>=135°C
Base material thickness	0.062"
Base copper foil – outer layers	½oz
Base copper foil – inner layers	1oz
Surface finish	Lead-free finish at our discretion for best price
Soldermask type/color	Liquid Photo Imageable - Green
Extra options	None
Legend color	White (one side only)
Min. track width/spacing	6mil
Min. finished hole size	0.010"
Minimum outer layer pad diameter = finished hole size + listed value	Hole ≤ 18mil: 14mil Hole ≥ 20mil: 16mil
Minimum inner layer pad diameter = finished hole size + listed value	Hole ≤ 18mil: 18mil Hole ≥ 20mil: 20mil
Minimum copper to board-edge clearance – outer layers	10mil (routed)
Minimum copper to board-edge – inner layers	16mil (routed)
Slots and cut-outs	Internal milling with a 0.079" tool
Delivery panels	Break-routed with 0.079" cutter
Multilayer-build	Standard
Electrical test	Standard for 4L
UL marking	Available
Stencil material	5mil stainless steel
Maximum stencil size	17.52" x 17.52"