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PCB Quote Self-Check List

24 items that decide your PCB price and lead time. Run through this list before requesting a quote - so your first price is your final price.

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1 · BOARD CONSTRUCTION

- [ ] **Layer count**
  Each added layer raises lamination and drill cost
- [ ] **Finished board thickness**
  0.6 / 0.8 / 1.0 / 1.6 / 2.0 mm are standard-cost
- [ ] **Board size & panel utilization**
  Odd sizes waste panel space - priced per panel
- [ ] **Copper weight (outer / inner)**
  1 oz standard; 2-6 oz adds plating steps
- [ ] **Board outline complexity**
  Slots, cutouts, rounded or irregular edges

2 · MATERIALS

- [ ] **Laminate grade**
  FR-4 standard Tg vs high-Tg (Tg 170+) premium
- [ ] **Special material?**
  Rogers / ceramic / metal core - price differs greatly
- [ ] **Halogen-free requirement**
  Not free - confirm it is genuinely required

3 · FINISH & MASK

- [ ] **Surface finish**
  HASL < ENIG < immersion silver/gold: match to need
- [ ] **Solder mask color**
  Green cheapest; matte black / blue add cost
- [ ] **Legend (silkscreen)**
  White standard; other colors or both sides extra

4 · VIAS & PATTERN

- [ ] **Minimum trace / space**
  6/6 mil standard; 4/4 mil and below = HDI pricing
- [ ] **Via types**
  Through via standard; blind/buried = added cycles
- [ ] **Minimum hole size**
  0.3 mm standard; < 0.2 mm needs laser drill
- [ ] **Impedance control required?**
  Specify target values on fab drawing

5 · FILES YOU PROVIDE

- [ ] **Gerber / ODB++ package complete**
  Layers, drill, outline, netlist all present
- [ ] **Fabrication drawing included**
  Stackup, finish, tolerances, IPC class on it
- [ ] **Drill files in correct units**
  Metric vs imperial mismatch = delays
- [ ] **IPC class specified**
  Class 2 standard; Class 3 adds inspection cost

6 · QUANTITY & SCHEDULE

- [ ] **Prototype / production split**
  Price per unit drops sharply at quantity
- [ ] **Quantity breaks quoted**
  Ask for 10 / 50 / 100 tiers, not one number
- [ ] **Lead time tier**
  Standard < quick-turn premium < expedited
- [ ] **Panelization needed?**
  V-score / tab-routing affects unit cost

7 · QUALITY & COMPLIANCE

- [ ] **Electrical test required**
  Flying probe vs fixture test cost differs
- [ ] **AOI / X-ray inspection**
  Standard on outer layers; confirm inner AOI
- [ ] **Certificates needed**
  UL, RoHS, CoC, impedance test report

Ready for a quote?

Send your Gerber files, fabrication drawing and quantity to sales@pcbelec.com. A review of your manufacturing files is the fastest way to an accurate, final price - usually within 24 hours.

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