Reach PCB .

DFM file checklist — what to send for a same-week quote and a first build without surprises

1 · Gerber & drill data

☐	**All copper layers**	RS-274X preferred. Name files clearly: GBL, GBL2, GTL… or anything consistent — we will map them and confirm in writing.
☐	**Solder mask (top / bottom)**	Colour if other than green, and whether areas must stay mask-free.
☐	**Silkscreen (top / bottom)**	Marking colour; whether polarity and part marks may be merged.
☐	**Drill files**	Excellon. Plated vs non-plated separated or clearly named; slot drills noted.
☐	**Board outline**	Closed contour on its own layer; routed slots and cut-outs included.

2 · Stack-up & materials

☐	**Layer count & board thickness**	Finished thickness after plating and mask, not core thickness.
☐	**Copper weight**	Inner / outer, finished oz. Heavy copper noted separately.
☐	**Material spec**	Brand and grade if fixed (e.g. Shengyi S1000-2); otherwise we match by Tg and performance.
☐	**Impedance control**	Target ohms, single-ended / differential, and which layers — we verify with a coupon and attach the report.
☐	**Surface finish**	ENIG, HASL, immersion silver / tin, hard gold, ENEPIG. If unsure, tell us the assembly process and we will advise.

3 · Processes that need a heads-up

☐	**Blind / buried vias, HDI**	Stage count, via fill requirements (resin, copper-capped).
☐	**Gold fingers, edge plating, castellations**	Include a drawing or marked Gerber; note plating thickness.
☐	**Scoring / routing, array (panel)**	Break-away rails, fiducials, 2.5 % X-out allowance.
☐	**IPC class**	Class 2 is standard. Class 3 needs a documented build review before tooling.

4 · Commercial

☐	**Quantity & panel usage**	Prototype qty and expected production qty — pricing changes with panelisation.

☐	**Deadline**	Your real target date. Standard lanes: 2–6 layers 5–8 working days; 8–10 layers ~15; HDI / RF / rigid-flex 18–25. Expedited slots available — 2-layer from 24 h.
☐	**Shipping preference**	DHL or FedEx account, or we quote freight. Add 3–5 days for express transit.

> **Send it all to sales@reachpcb.com** — you will receive a firm quote with a free DFM report within one business day. Files are treated as confidential and used only to quote and build your order.

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