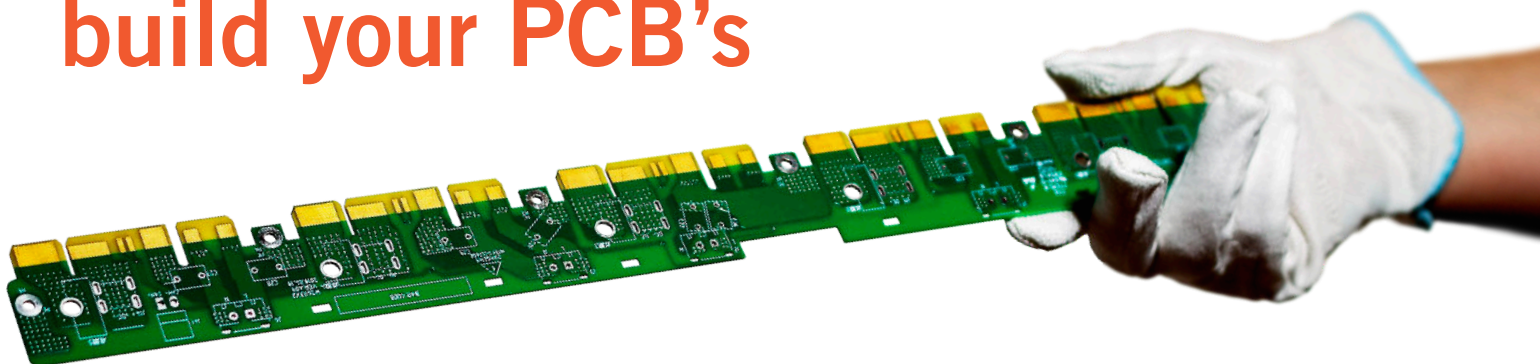


What we need to quote and build your PCB's



- › **Fab Notes** to identify (at least) the board attributes: layer count, finished thickness, base and/or finished copper thickness/weight for each copper layer, material type, board finish after copper plating (HASL, ENIG, etc.), soldermask color, and silkscreen color. This minimum amount of information will allow an accurate quote to be generated. Additional information is also common but not required such as the IPC spec and Class required, the customer manufacturing specification, requirements that are tighter or looser than IPC standards, special manufacturing requirements such as countersinks, gold fingers, edge-plating, via fill, etc. Sample notes can be provided on request.
- › **Drill drawing** that shows the list of finished hole sizes, plated or not, finished tolerances, and a symbol found on the corresponding symbol map.
- › **Dimensional drawing** that shows the overall size, any perimeter cuts or notches and any hole to edge dimension required on the finished board.
- › **Array drawing** for assembly. In the event we do not receive an array drawing, NCAB Group can generate one for the Contract Manufacturing customer. If you have an existing part that you might move to NCAB or are having NCAB quote, be sure to provide the existing array information (drawing, tooled files, etc.). Even a description is more helpful than nothing. For example: 3 up with 4 rails of .400, no space between for scoring.
- › **Gerber Files** for all inner and outer copper layers, soldermask layers, silkscreen layers, solderpaste layers, special layers (selective gold, peelable mask, via plug or fill, etc).
- › **File format** should be R274X Gerber Extended (apertures are embedded within the gerber data for each layer) but we can also accept ODB++ format. We prefer one or the other, not both.
- › **Drill file(s)** are usually supplied in N/C drill format but we can accept in gerber format if the apertures represent the different finished hole sizes required.
- › **Rout outline** files are not required but at least one gerber layer should have an outline on it that matches the dimensional drawing supplied.

Send all RFQs to your local NCAB account management team.

Don't forget to include the quantity and lead-times needed.

Standard lead-time is assumed if not specified.