

PCB Quote & DFM Readiness Checklist

What to share when available - and where REVO can help before manufacturing.

Your files do not need to be perfect. Send what you have. REVO can help review the design, resolve BOM and sourcing risks, improve manufacturability, and plan the build.

1. Project basics

- ☐ Product application and operating environment
- ☐ Current stage: concept, design review, prototype, redesign, or repeat build
- ☐ Prototype and expected production quantities
- ☐ Target quote date, build date, and delivery schedule
- ☐ Known compliance, traceability, material, or documentation requirements
- ☐ Previous build history and known issues, when applicable

2. PCB fabrication data

- ☐ Gerber or ODB++ fabrication files
- ☐ NC drill files and drill map
- ☐ Fabrication drawing with dimensions, tolerances, finish, and notes
- ☐ Layer stack-up and controlled-impedance requirements
- ☐ Panelization requirements or known breakaway constraints
- ☐ Board revision clearly identified across every file

3. Assembly data

- ☐ Bill of materials with manufacturer and manufacturer part number
- ☐ Reference designators, quantities, and approved substitutions
- ☐ Centroid / XY / pick-and-place file
- ☐ Assembly drawings showing polarity and special placement notes
- ☐ Schematic and PCB layout source files when review support is requested
- ☐ Instructions for customer-supplied, consigned, or programmed components

4. Test and programming

- ☐ Functional test procedure and expected results
- ☐ Programming files, target devices, tools, and firmware revision
- ☐ Test fixtures, cables, mating hardware, or reference units
- ☐ Inspection needs such as first-article, X-ray, or documented results
- ☐ Power-up sequence and safe initial operating limits
- ☐ Serialization, labels, packaging, and final acceptance criteria

Design-for-Manufacturability Review

Use these prompts before release, or ask REVO to help work through them with your team.

Schematic & layout	Confirm power, grounding, connector orientation, programming access, mechanical clearances, fiducials, tooling holes, copper-to-edge spacing, and revision consistency.
BOM optimization	Check manufacturer part numbers, package and footprint matches, sourcing status, minimum order quantities, alternates, lifecycle risk, and parts that require programming or special handling.
Obsolete & constrained parts	Flag end-of-life, not-recommended-for-new-design, allocation, long-lead, and single-source items. Review technically compatible alternatives before approving substitutions.
Assembly DFM	Review component spacing, polarity markings, thermal pad treatment, paste apertures, panel support, bottom-side components, hand operations, rework access, and process-sensitive devices.
Test strategy	Define accessible test points, programming method, power-up checks, functional coverage, fixtures, reference measurements, pass/fail criteria, and results that need to be recorded.
Design revisions	Keep one authoritative revision across fabrication, assembly, BOM, firmware, and drawings. Include a concise change note so reviewers and production personnel know what changed.

Common early warning signs

Unmatched file revisions; missing centroid data; BOM lines without manufacturer part numbers; ambiguous polarity; unapproved alternates; inaccessible programming headers; test requirements defined after layout; or a mechanical model that no longer matches the PCB.

Ready files or an unresolved engineering challenge?

Start a conversation at revotics.com/contact-us or securely submit available project files at revotics.com/support/upload-portal.

This checklist is a planning aid. The exact data and review needed will vary by design, process, quantity, compliance requirements, and intended use.