



FABRICATION DATA PACKAGE

PCB Technical Data and DFM Guide

Companion guide for submitting complete rigid-PCB fabrication data without duplicating the manufacturing capability overview.

Purpose Prepare consistent fabrication, drill, netlist and drawing data	Scope Rigid single-sided, double-sided and multilayer PCB
Review Material, stack-up, geometry, panelization and testing	Control One revision-controlled release package

This guide replaces a retired bilingual duplicate capability sheet. Manufacturing limits remain in the approved project review.

1. Required Data Files

Data group	Required content
Copper layers	Controlled artwork with clear layer order and polarity
Mask and legend	Openings, colors, markings and component orientation
Drill / rout	Tools, plated status, slots, outline and controlled-depth features
Netlist	Reference connectivity source for electrical test
Fabrication drawing	Stack-up, dimensions, tolerances, notes and finishes
Readme	File list, units, revision and special instructions

2. Stack-Up Definition

Stack item	Definition required
Materials	Laminate family, core/prepreg construction and restrictions
Copper	Starting and finished copper requirement by layer
Thickness	Finished board thickness and applicable tolerance
Impedance	Controlled structures, targets, reference planes and test evidence
Finish	Surface finish and assembly or contact application



DFM AND RELEASE

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3. DFM Review Topics

Topic	Review focus
Trace and space	Copper, layer type, density and manufacturing class
Pads and holes	Finished-hole size, annular ring, plating and tolerance
Mask	Openings, dams, registration and assembly clearances
Outline	Routing, scoring, breakaway features and edge relationships
Panelization	Array, rails, tooling, fiducials and assembly constraints
Testing	Netlist, coupons, inspection and project-specific requirements

4. Pre-Release Check

- All files use one unit system, origin and revision.
- The drawing and electronic data describe the same stack-up and outline.
- Hole tables distinguish drilled tools from finished dimensions.
- Special requirements are measurable and have an acceptance method.
- Obsolete or duplicate file sets are removed from the release package.

Release only the reviewed data package identified on the purchase order.