



PCB cross-section analysis

See inside the PCB and document the facts.

When a PCB fails, shows unexpected behaviour or does not meet customer requirements, the root cause is often hidden beneath the surface.

Visual inspection is limited to the surface, while supplier documentation alone cannot provide independent physical verification of the PCB's internal construction.

PCB cross-section analysis provides direct physical evidence of the board's internal construction.

See what is really inside the PCB

The cross-section analysis can document:

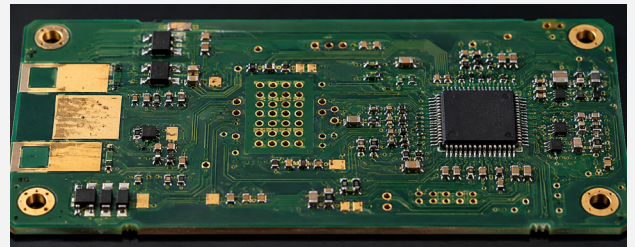
- Via and plated-through-hole quality
- Copper plating thickness
- Inner-layer connections
- Layer registration
- PCB stack-up construction
- Dielectric spacing
- Solder mask build-up
- Laminate quality and visible defects.

The analysis can also support the identification and documentation of manufacturing defects and anomalies, including cracks, voids, separation and plating irregularities.

The result is a technical report containing:

- Microscope images
- Dimensional measurements
- Technical observations
- Evaluation against agreed acceptance criteria.

PCB cross-section analysis



Reduce uncertainty before it becomes a cost

Cross-section analysis supports critical decisions when:

- Qualifying new PCB suppliers
- Releasing products to production
- Investigating field failures
- Resolving customer complaints
- Assessing process capability
- Verifying compliance with specifications.

Without objective documentation, quality issues can lead to delayed releases, repeated failures, supplier disputes and unnecessary corrective actions.

Evaluation against recognised standards and requirements

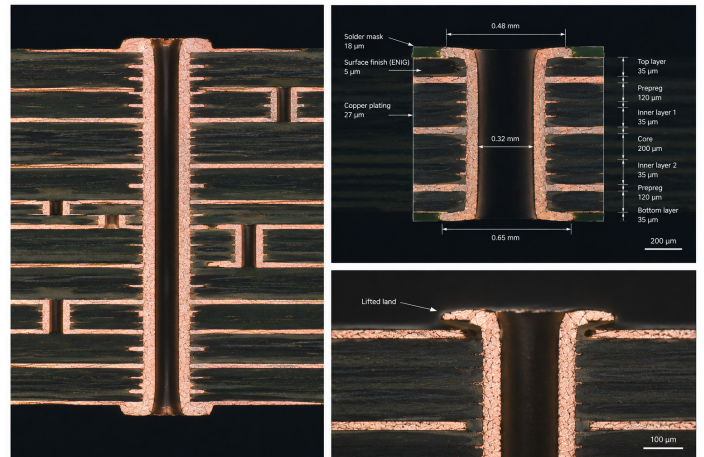
Analysis and evaluation can be performed against applicable requirements and test methods from:

- IPC-A-600
- IPC-6012
- IPC-TM-650
- PERFAG requirements
- Customer-specific PCB specifications.

Supporting reliable electronics in industries and applications

PCB cross-section analysis is used across industries and applications including:

- Aerospace and defence
- Automotive electronics
- Medical devices
- Industrial electronics
- Maritime and offshore systems
- Power electronics.



Contact

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