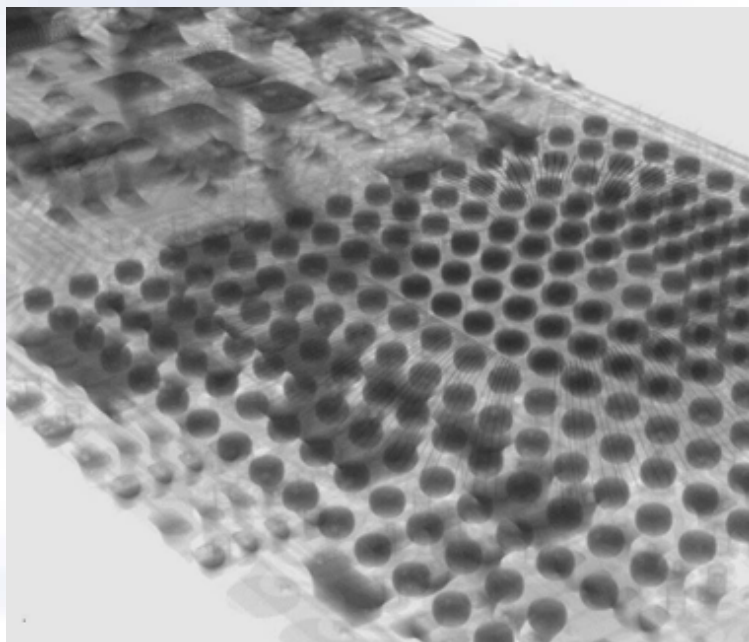
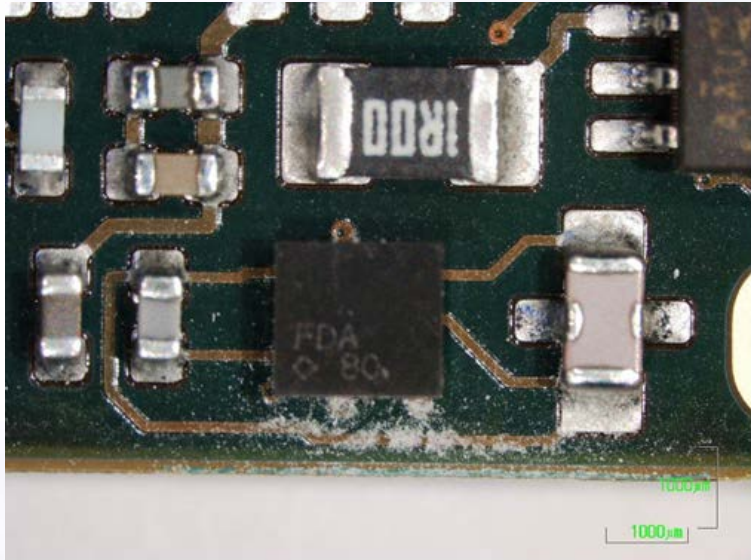


IPC PCB and PCBA inspection Service

IPC PCB and PCBA inspection is used to assess the quality of bare and assembled Printed Circuit Boards (PCB's). Main focus is the manufacturing quality of the PCB and assembling quality of the PCBA.



IPC-A-600/610 PCB/PCBA INSPECTION

- IPC-A-610, Acceptability of Electronic Assemblies is the most widely used standard published by the IPC
- IPC-A-600 – Acceptability of Printed Boards is an inspection criterion, setting the level of acceptance criteria for each class of product
- It has an international reputation as the source for end product acceptance criteria for consumer and high reliability printed wiring assemblies

INSPECTION CLASSIFICATION

- Class 1 – General Electronic Products
 - Includes products suitable for applications where the major requirement is function of the completed assembly
- Class 2 – Dedicated Service Electronic Products
 - Includes products where continued performance and extended life is required
- Class 3 – High Performance/Harsh Environment Electronic Products
 - Includes products where continued performance or performance-on-demand is critical (life support or other critical systems)

ANALYSIS TECHNIQUES

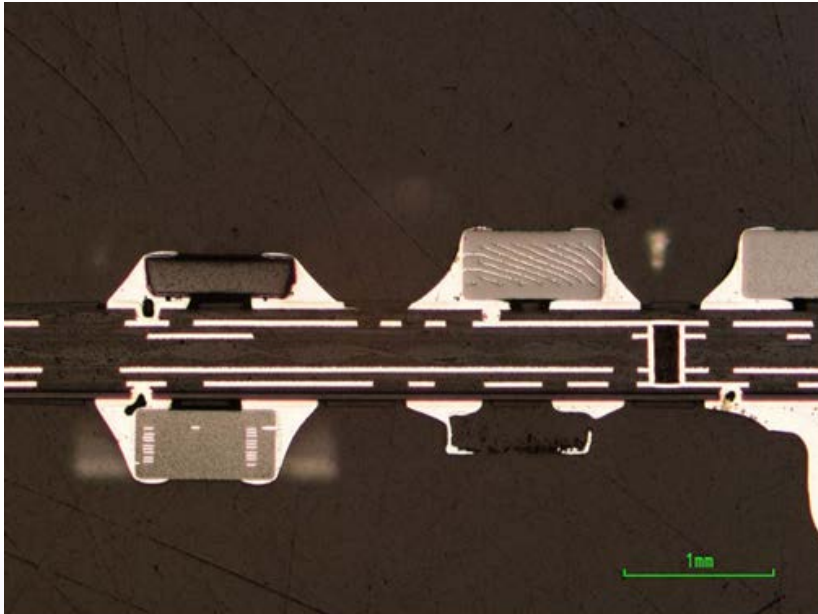
Non destructive

- Optical inspection
- X-ray inspection
- Delamination of packages

Destructive

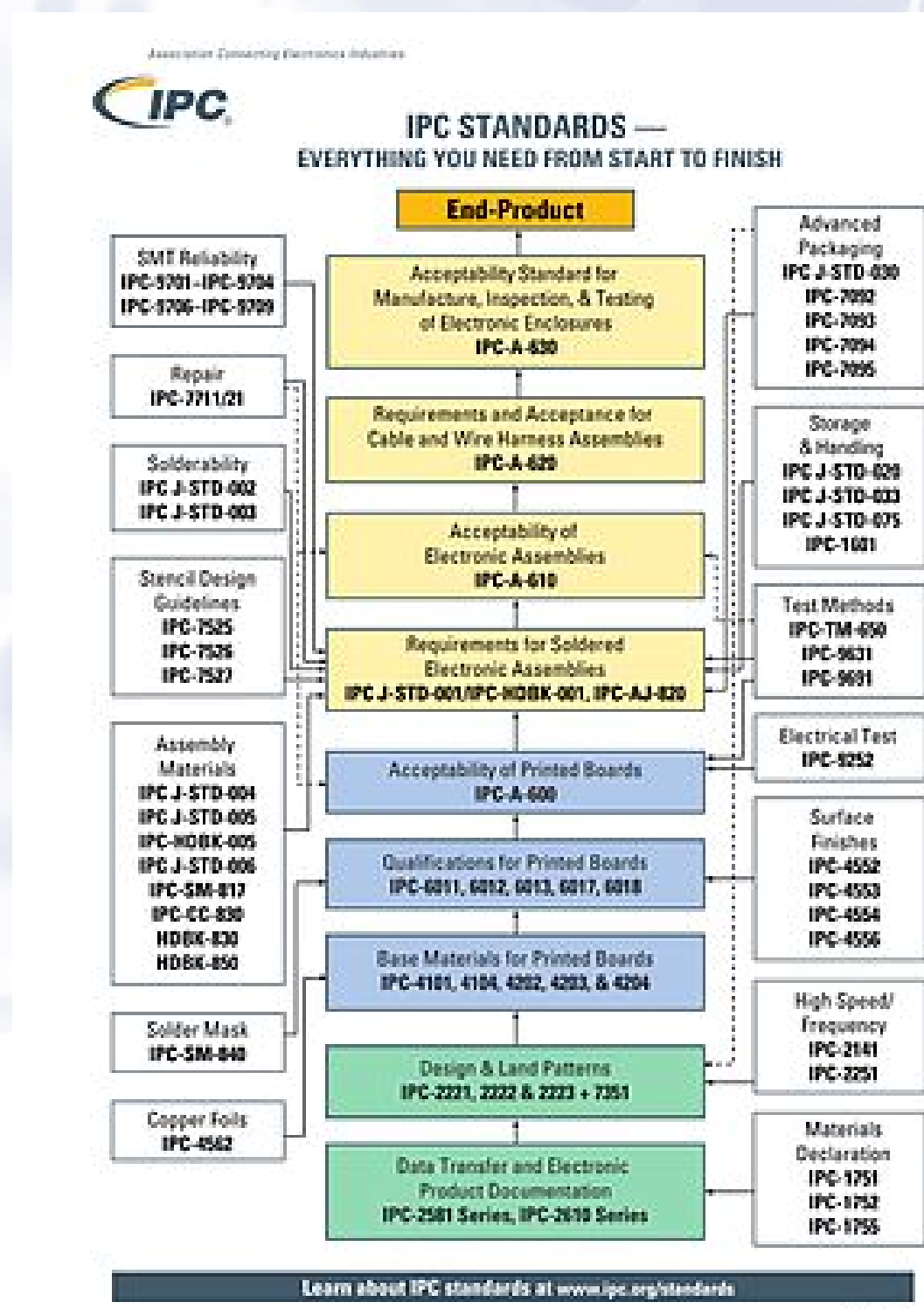
- Cross-sectioning
- Optical and SEM inspection
- SEM-EDX analysis

IPC PCB and PCBA inspection Service



SUMMARY

- Quality assessment of PCB design, manufacturing and assembly
- Analysis of the following:
 - Design
 - Construction
 - Materials
 - Solder voids
 - Cracks in metallisation
 - Solder wetting
 - Via filling
 - Contamination
 - Delamination
 - Second source



For inquiries please contact : info@maser.nl or call +31 53 480 26 80