

Third party analysis

We can perform basic visual control of printed circuit boards, and thorough quality tests including microsections and report, all based on customer specific requirements.

Dalectro has many years experience of pcb quality control and are familiar with weak points:

- Missregistration
- Copper thickness in holes
- Laminate defects
- Soldermask defects
- Voids and metal residues
- Contamination, residues, hair
- Material thickness
- Bow & twist
- Final finish



Dalectro can offer quality assurance of a new supplier or critical delivery as a third part. If you supply us with a pcb, we will deliver a report based on your specification and IPC-standards for pcb (IPC-A-600 and IPC-6010-series and so on).

Third party testing and fault finding

Deviations and defects are unfortunately common at printed circuit boards and assemblies. In some cases it might be necessary to find the actual root cause in order to assure preventive actions.

Dalectro has extensive experience of fault finding and assessment of microsections. We can perform several tests and analysis, all of it compiled as pictures and text in a neutral and substantial report with background, analysis and conclusions.

Our quality assurance

Our test methods are based on IPC-TM-650 and evaluation according to IPC-6012 and IPC-A-600 and in some cases also IPC-A-610 and customer specific requirements. Equipment, test methods and procedures can be documented, if required. Sample preparation are made according to well established, systematic and documented metallographic



As an independent third party laboratory we can offer:

- Quality assessment and first sample evaluation
- Third party analysis of printed circuit board defects
- Solderability test according to IPC-J-STD-003 test C (wave soldering) and test E (reflow) on demand
- Sample preparation and microsection analysis
- Visual inspection according to IPC-A-600
- Fault finding and root cause determination
- Metallurgic microscopy of microsection samples
- Measurement of coatings, metalls and dielectrics
- Analysis of solder rise and voids IPC-A-610
- Microsection analysis of pcba and components
- Extensive reports with reference to IPC
- Assessment of delamination and outgassing
- Assessment of bow and twist
- All other types of defects according to IPC-A-600
- Measurement of thin coatings (Au, Ni, Ag) with XRF

Microsectioning (cross sections) are destructive tests and can be performed on both assemblied boards as well as bare printed circuit boards.

For further information, please contact Esbjorn Johansson at Dalectro Call +46 70 795 88 72 or email: esbjorn@dalectro.se