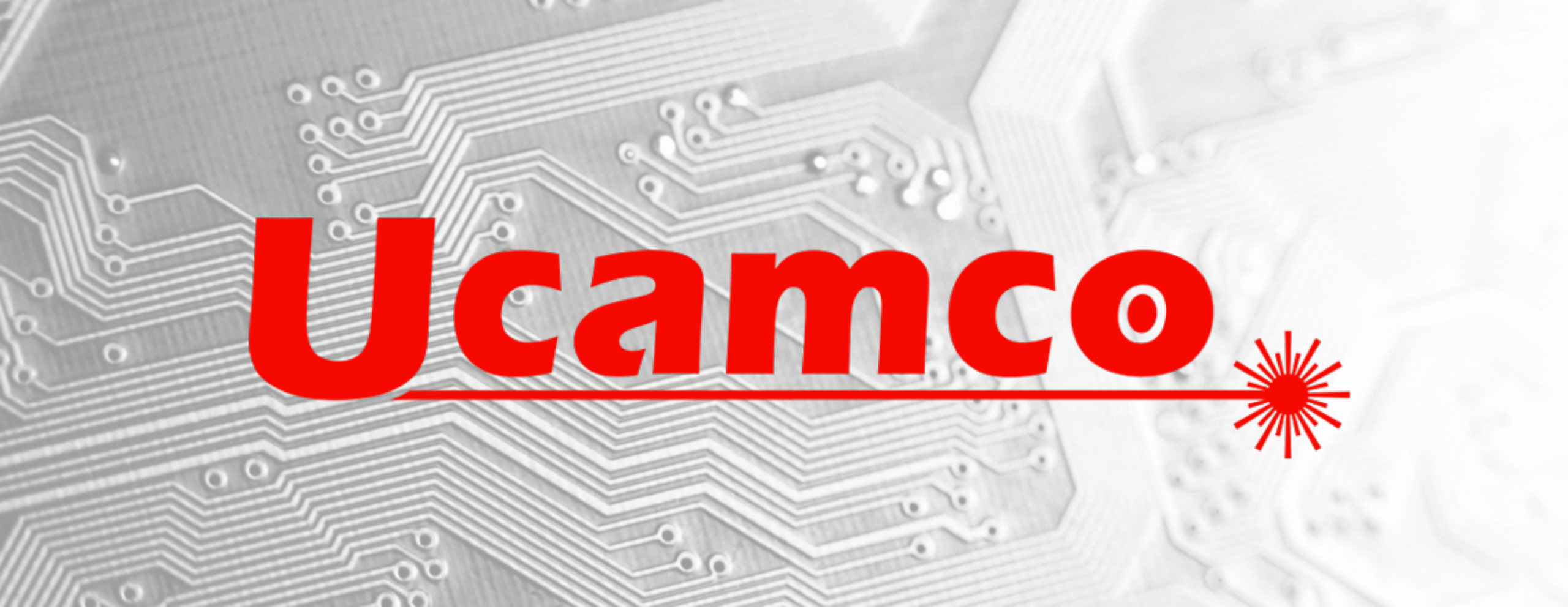


YELO – Mask Adjuster (MAJ)

Webinar August 04, 2020

YELO-Mask Adjuster webinar

Ucamco

- **How does the webinar work?**
  - All attendees are muted
  - Ask questions with the ‘Questions’ button
  - Answers at the end of the webinar
  - A copy can be downloaded after the webinar

- **Who does the work?**
  - Moderator: Karel Langhout
  - Co-Moderator: Sylvia Liemer

YELO-Mask Adjuster webinar

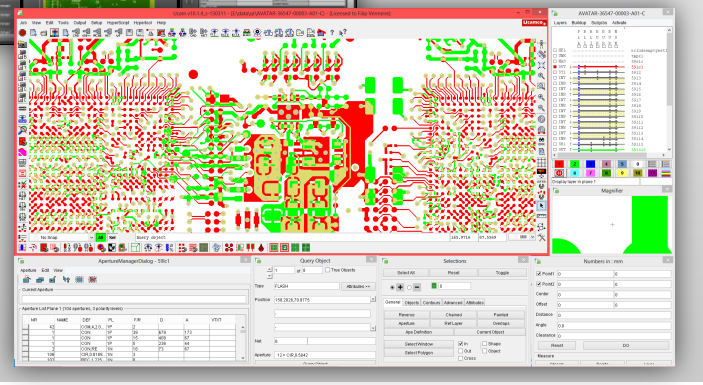
Ucamco

- **Content**
  - Short Ucamco introduction
  - Introduction to YELO Mask Adjuster (MAJ)
  - Live demonstration
  - Questions and answers

YELO-Mask Adjuster webinar

Ucamco

- **Ucamco serves the global PCB industry**
  - **Laser Photoplotters/Ledia DI**
    - Best-in-class performance
    - Long-term reliability
    - Constant evolution
  - **PCB manufacturing software**
    - Integr8tor, UcamX
    - Web-based: iamcam, Communic8tor
  - **PCB bundled front-end software**
  - **Gerber developments: X2, X3, Gerber Job**



YELO-Mask Adjuster webinar

Ucamco

YELO Mask Adjuster

Parameter Set

YELO-MAJ

Data Preparation

Drill Tool Manager | Markup Assistant

Adjust Mask

Ring 0.075 ☐ Ignore rings bigger than set value

Copper overhang 0.05

Solder web 0.1 Mask to Mask 0.075

Adjust

Via Handling

☐ Ignore mask rings larger than set value

	Reference	Ring +/-
☑ Via with dedicated copper pad free or partially free of mask	○ Pad ◉ Hole	0.03
☑ Via with dedicated copper covered by mask	○ Pad ◉ Hole	0.05
☑ Via without dedicated copper pad free or partially free of mask	◉ Hole	0.075
☑ Via without dedicated copper covered by mask	◉ Hole	0.1

Apply

Adjust Mask for Embedded Pads

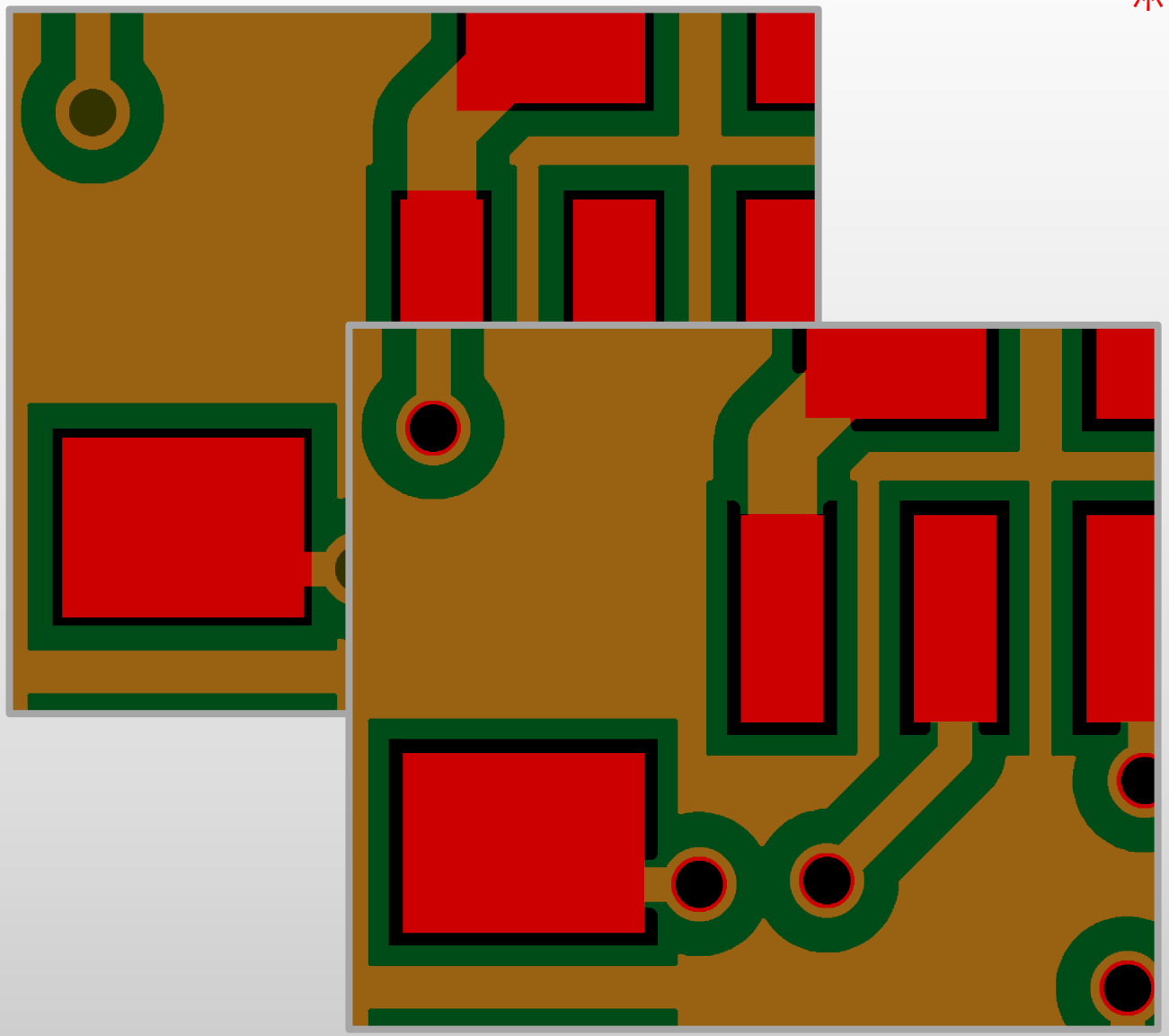
Soldermask ring for in copper pads	0
Soldermask ring reduction if no pad in copper	0
Soldermask ring overlap on tracks	0.025
Clearance soldermask to tracks (transition)	0.05

Adjust

☐ Remodel soldermask (eliminate negatives)

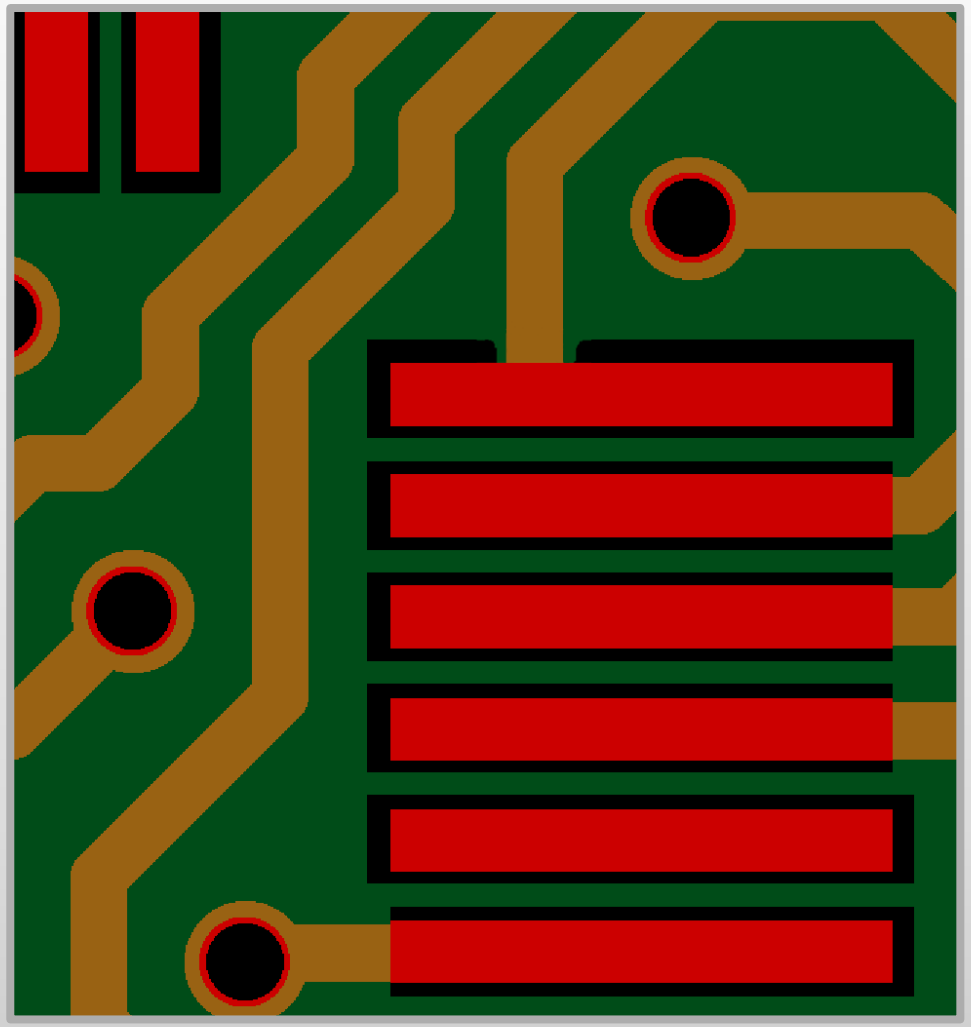
☑ Backup Original Layers

Apply and Adjust | Cancel



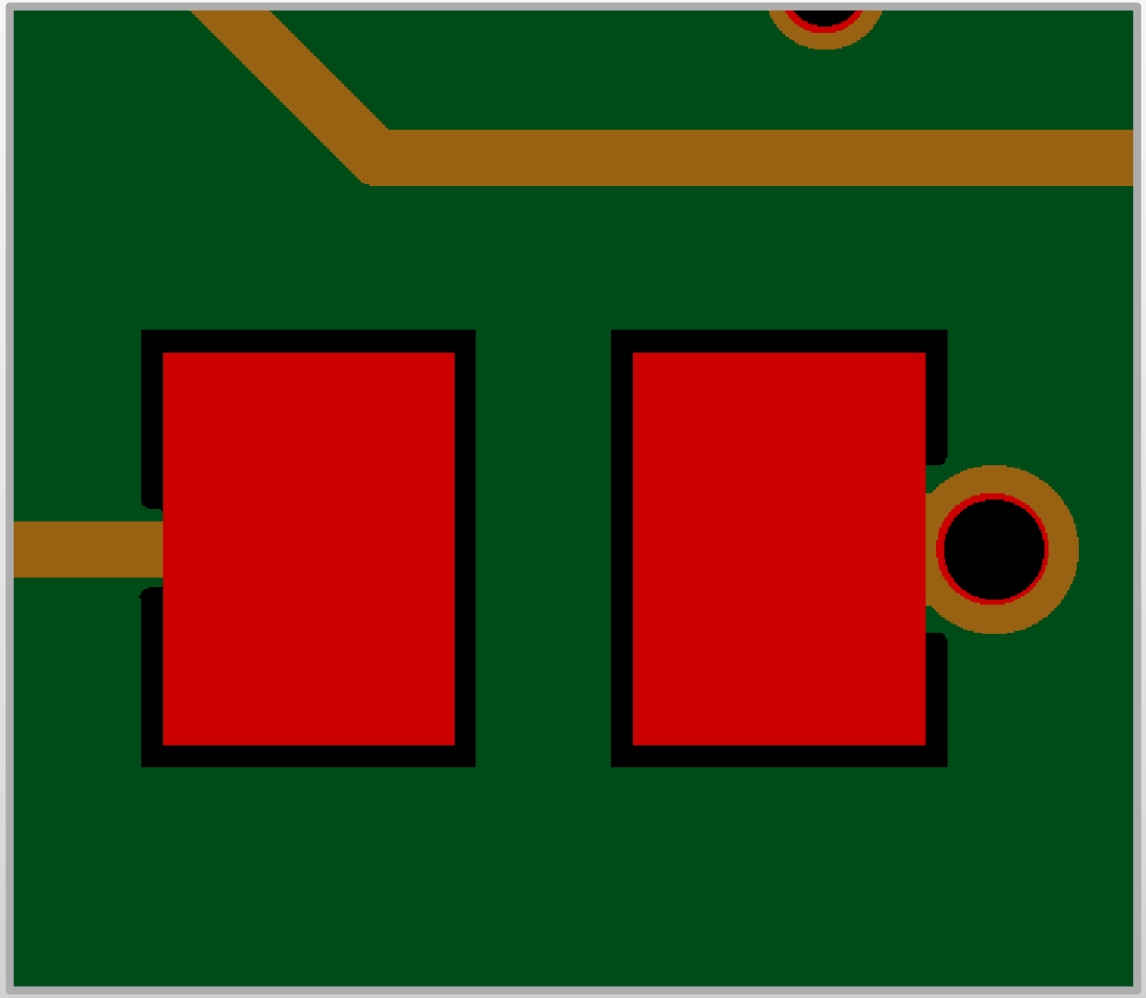
Why adjust a mask?

- Avert mask printed on solder pads
- Prevent solder starvation
- Avoid shorts to foreign copper
- Alleviate the solder mask process
- Reduce manual interventions for assembly procedure
- Meet your customers requirements



Features

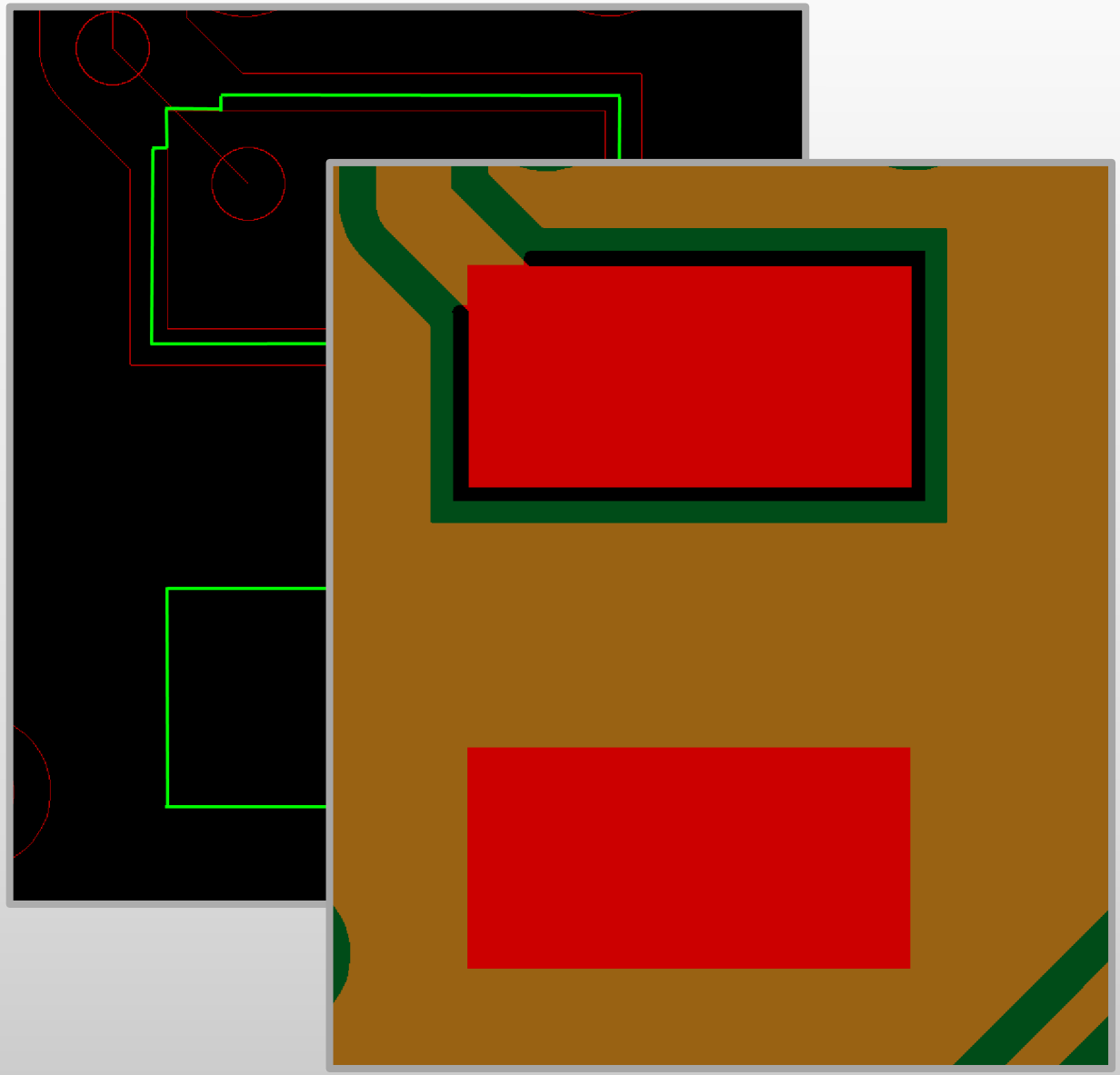
- General adjustments:
  - soldermask ring
  - overhang
  - mask to mask
  - solder web
- Via handling to adjust existing or create new solder mask openings



Features

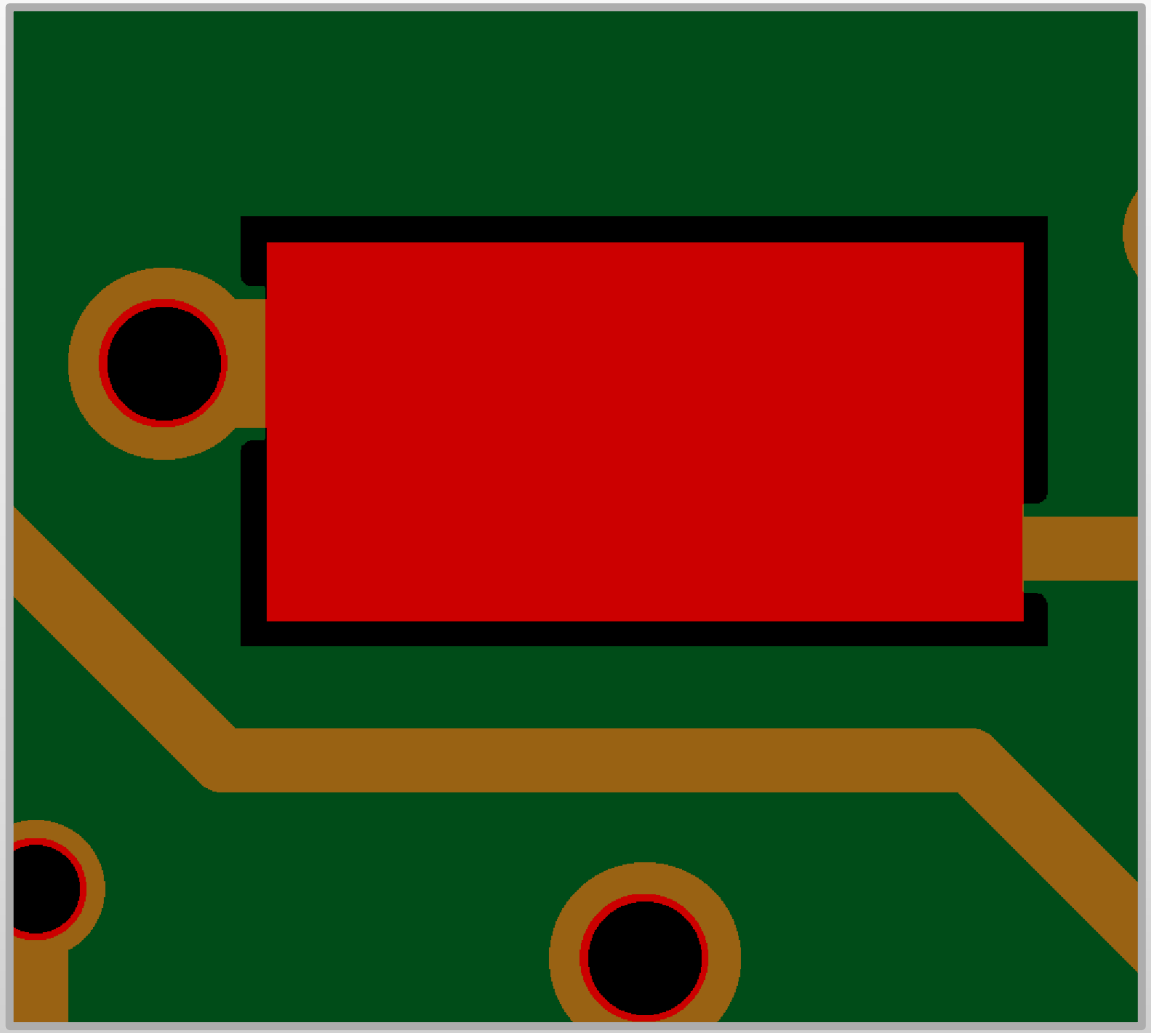
- Equalization of copper surface areas in case some of the solder pads are embedded in copper

- Limit solder paste flow on tracks

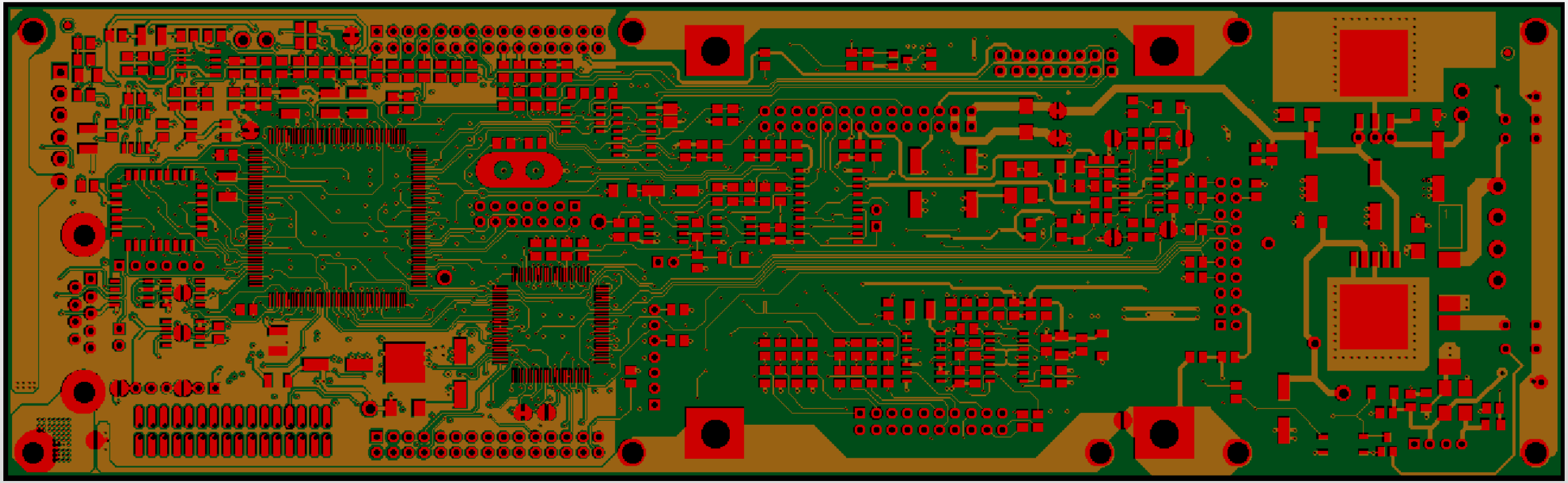


Features

- Comfortable and easy-to-use GUI
- Parameter sets for save and reuse
- Backup layer added for every adjustment step for fast comparison



Live demo



Benefits

- Most comprehensive mask adjuster
- Unrivaled adjustment scope
- Fully automated
- Improvement of mask for the assembly process
- Prevent solder starvation
- Block shorts
- Meet your customers requirements

Thank you!

Interested? Request a trial version at webinars@ucamco.com

Unanswered questions will be answered by email after the webinar

We are looking forward to your feedback.

We will inform you about new webinars

Thank you for attending this webinar.

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