

# CIRCUITGUARD AI — PCB DEFECT ANALYSIS REPORT

Report ID: RPT-80733568

Generated On: 2025-11-12 14:32:21

## Defect Summary

Total Defects: 6

Average Confidence: 79.62%

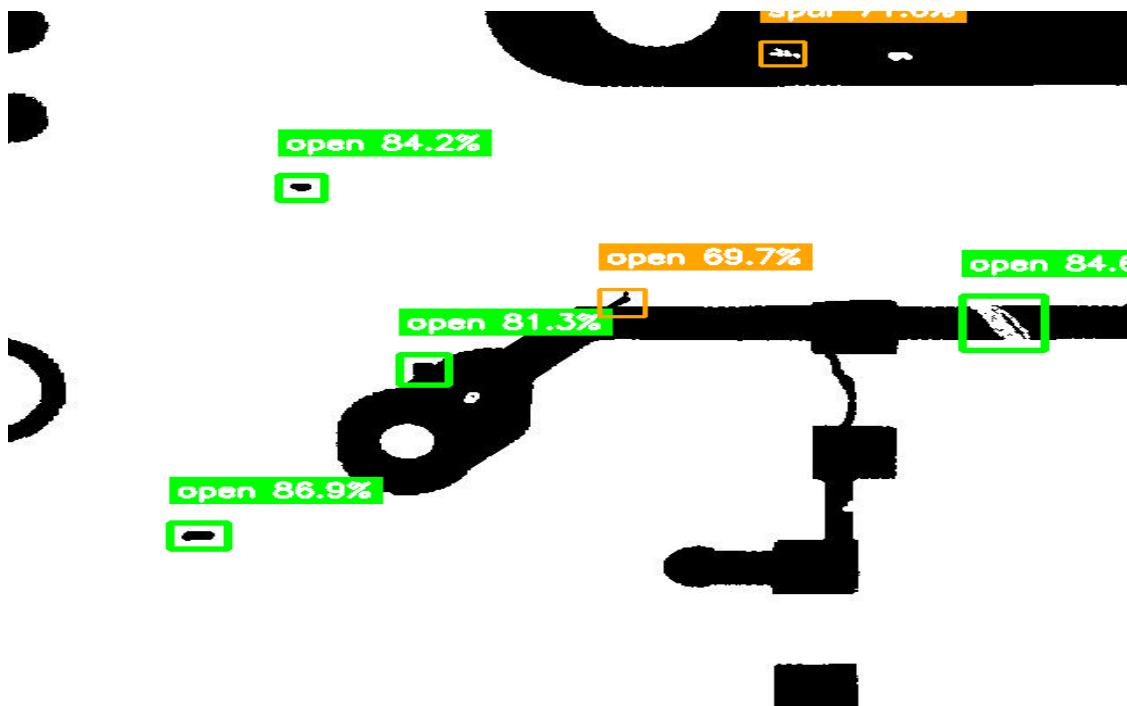
High: 4 | Medium: 2 | Low: 0

## Possible Causes & Remedies

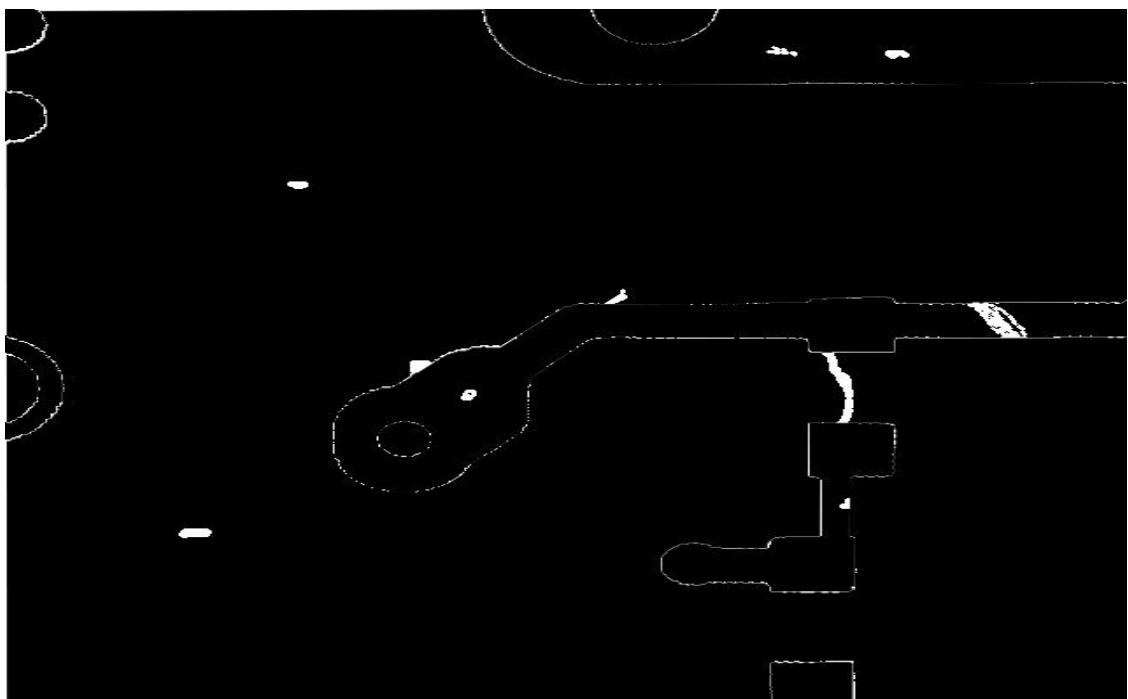
- Solder Bridge — Verify copper trace spacing and solder mask.
- Mousebite — Check drilling alignment and routing process.
- Open Circuit — Ensure complete etching and copper continuity.
- Spur — Clean unwanted copper residues.
- Pinhole — Inspect plating process and solder cleanliness.
- Spurious Copper — Use cleanroom inspection and re-etch.

## Visual Analysis

### Annotated PCB



## Difference Map



**Binary Mask**

