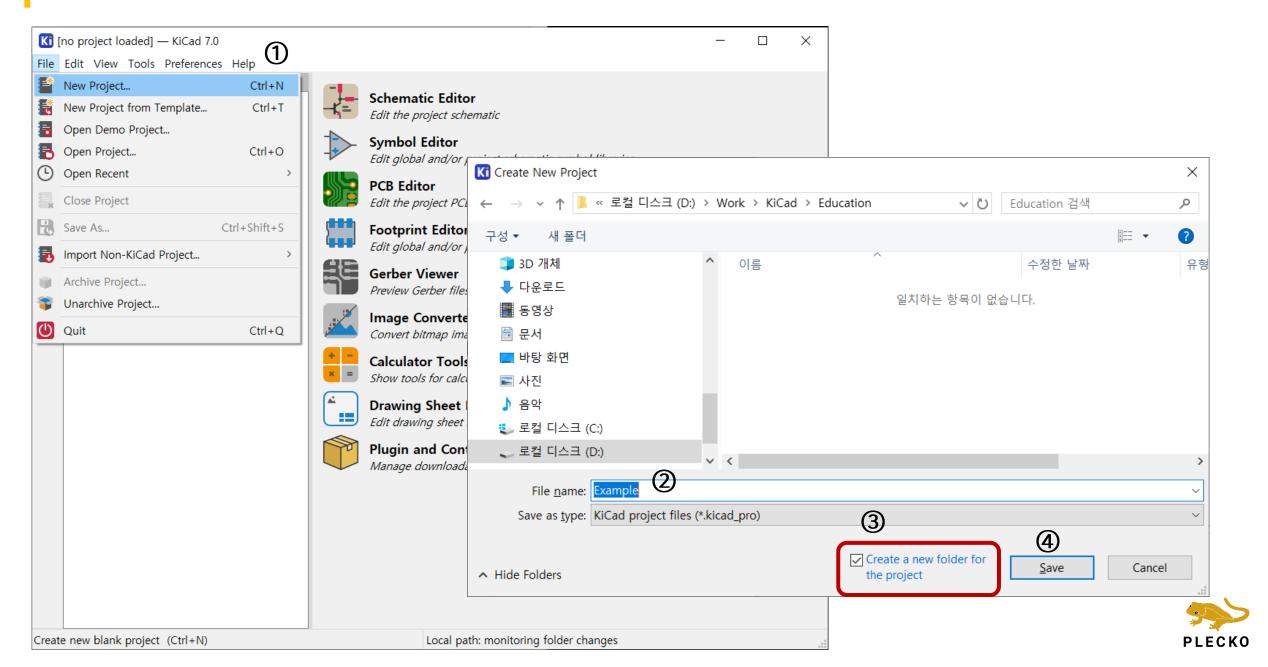


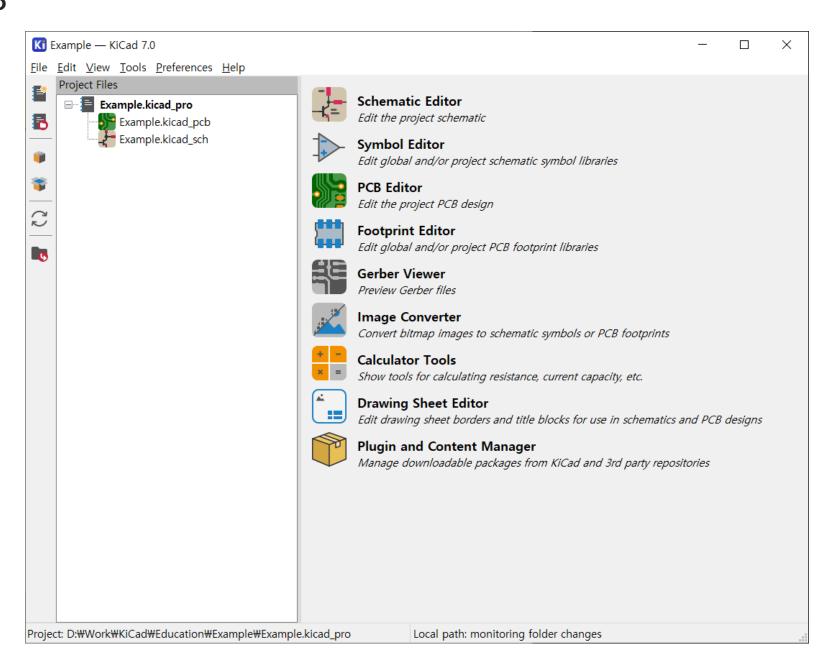
# **KiCad Example**

김병헌 Byeongheon Kim 2025. 1Q benkim@plecko.biz

#### 프로젝트 생성



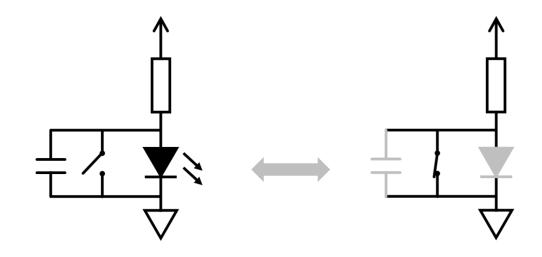
#### 프로젝트 생성

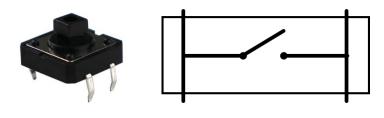




# **Design Circuit**

- ❖ LED ON/OFF Circuit 예제
  - ► LED: 2012 size, Chip LED, 20 mA, on drop 2 V
  - ▶ 저항: 2012 size, 330 Ohm, 1/8 W
  - ▶ 전원: 5 V 외부 전압
    - ✓ 커넥터: 2 pin connector (2.54 mm picth)
  - ▶ 스위치
    - ✓ 택트 스위치
  - ▶ 캐패시터: 2012 size, 1 nF, > 6V

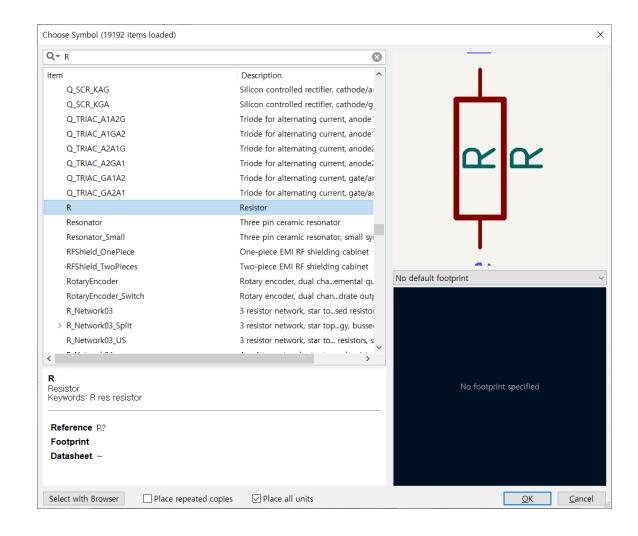


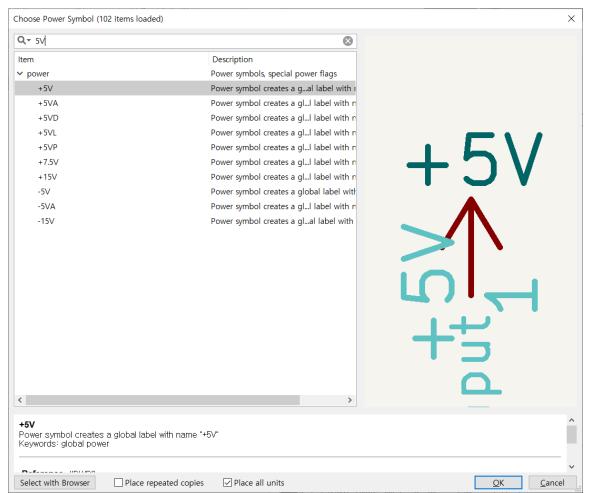




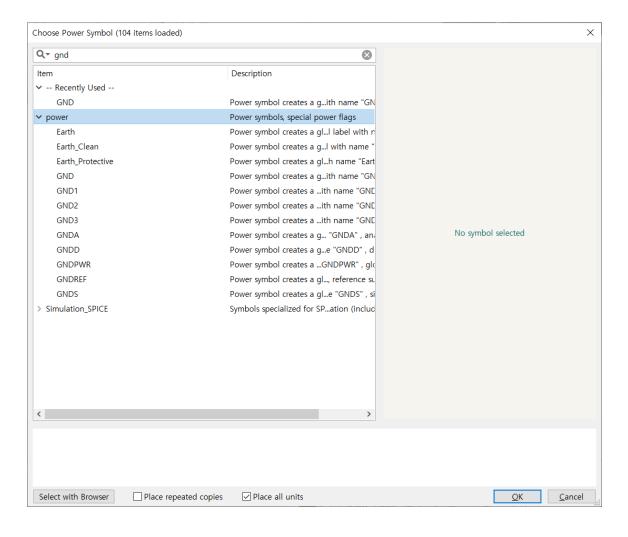
- ❖ LED ON/OFF Circuit 예제
  - ▶ 커넥터와 Power pin 배치,
    - ✓ 커넥터: 2 pin connector (2.54 mm picth)
  - ► Ground 배치
  - ▶ 저항 및 LED, 캐패시터, 스위치 배치
    - ✓ LED: 2012 size, Chip LED, 20 mA, on drop 2 V
    - ✓ 저항: 2012 size, 330 Ohm, 1/8 W
    - ✓ 캐패시터: 2012 size, 1 nF, > 6V
    - ✓ 스위치: SW\_Push 사용

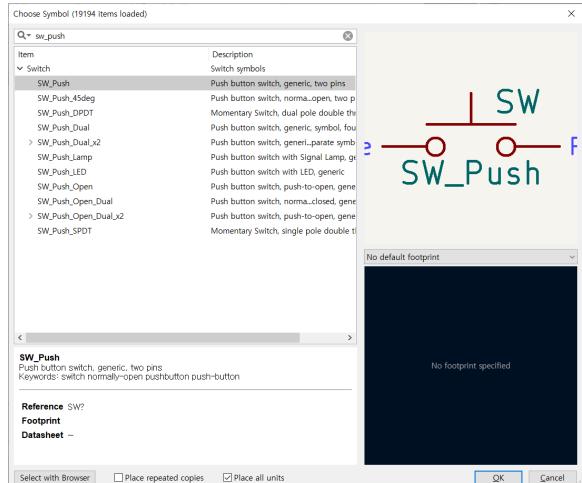




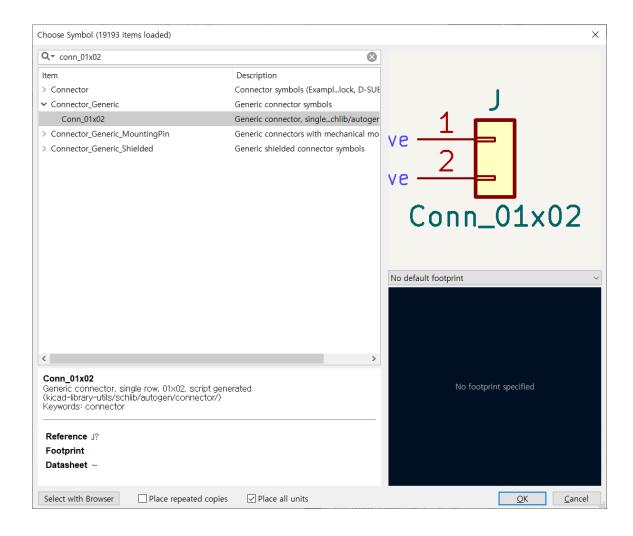


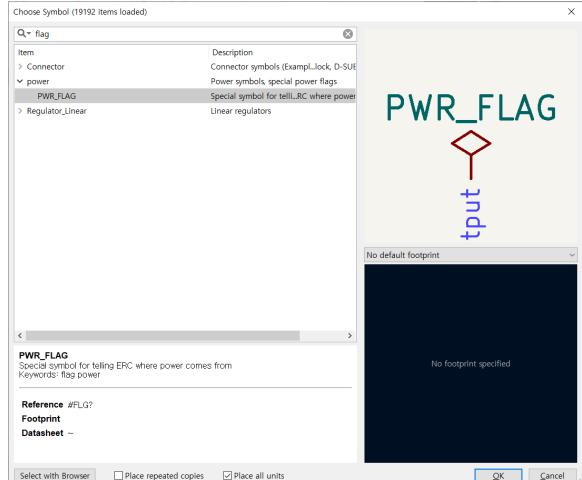




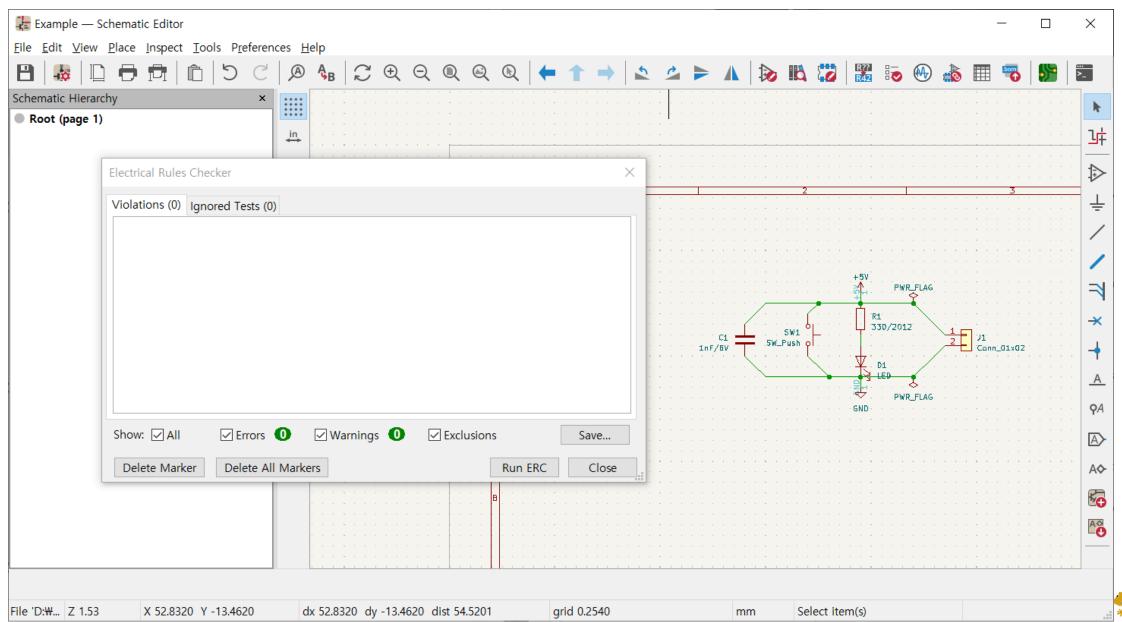


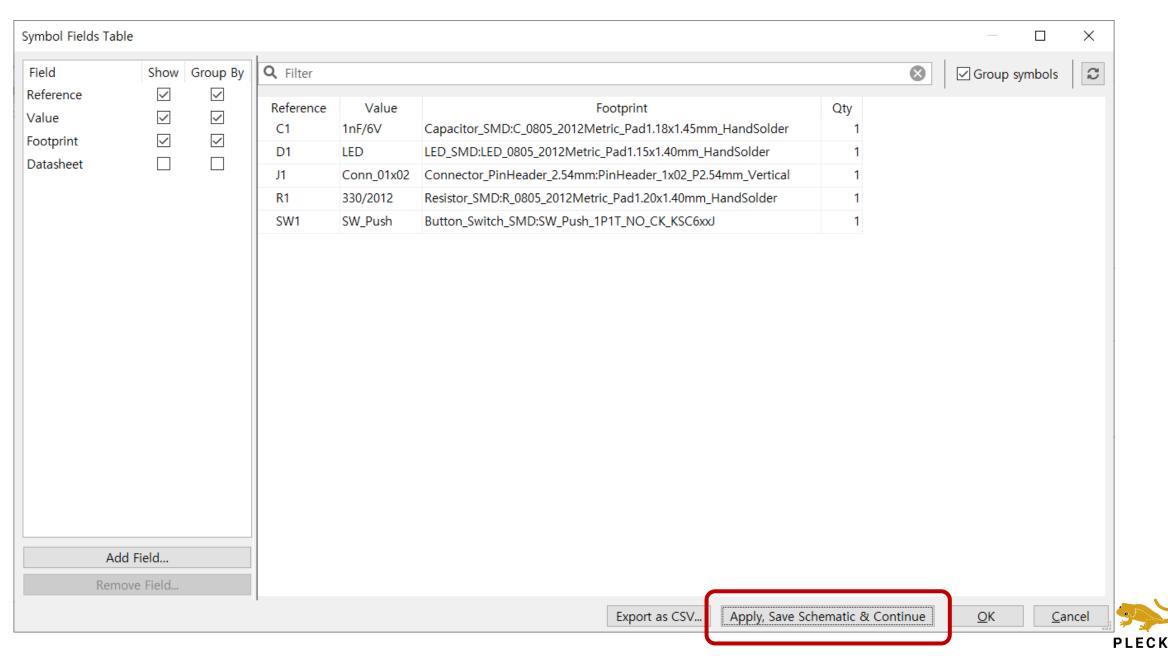


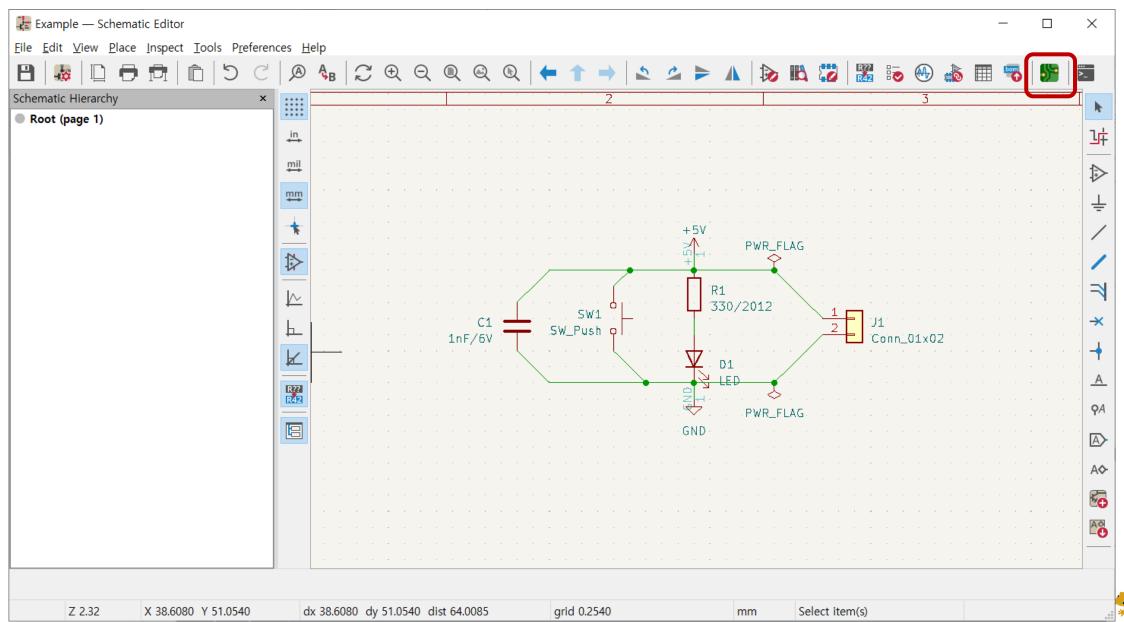


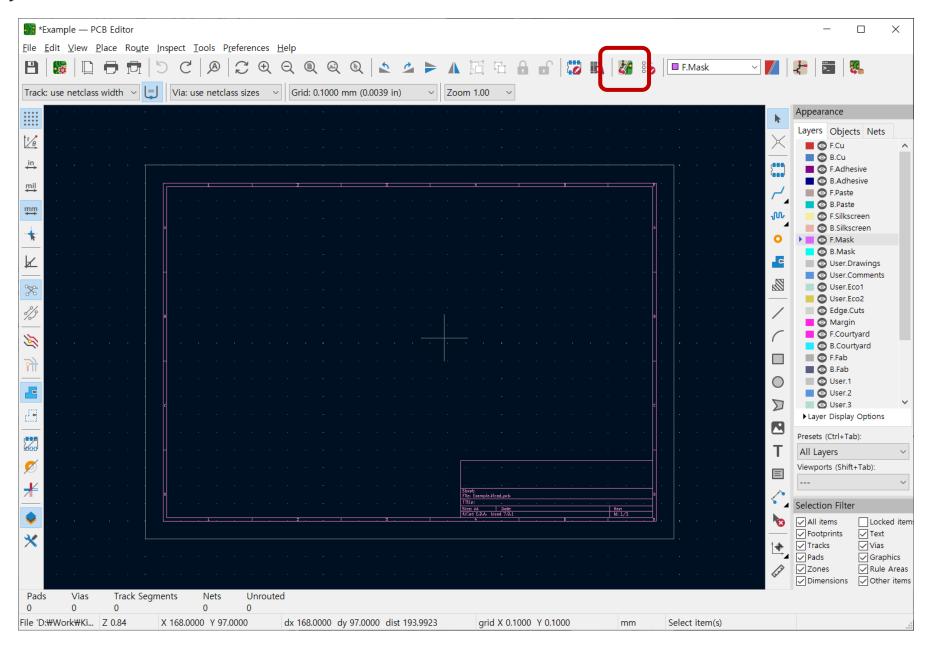






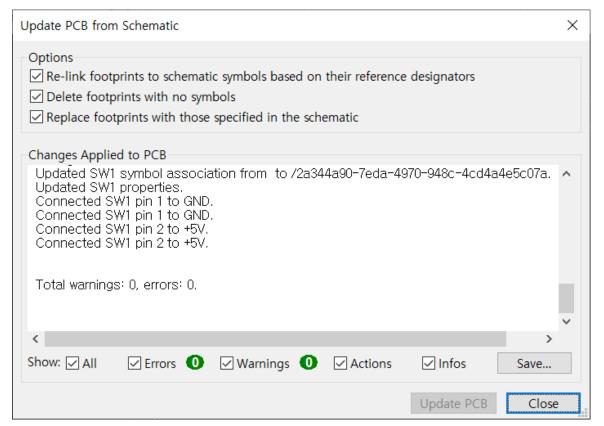




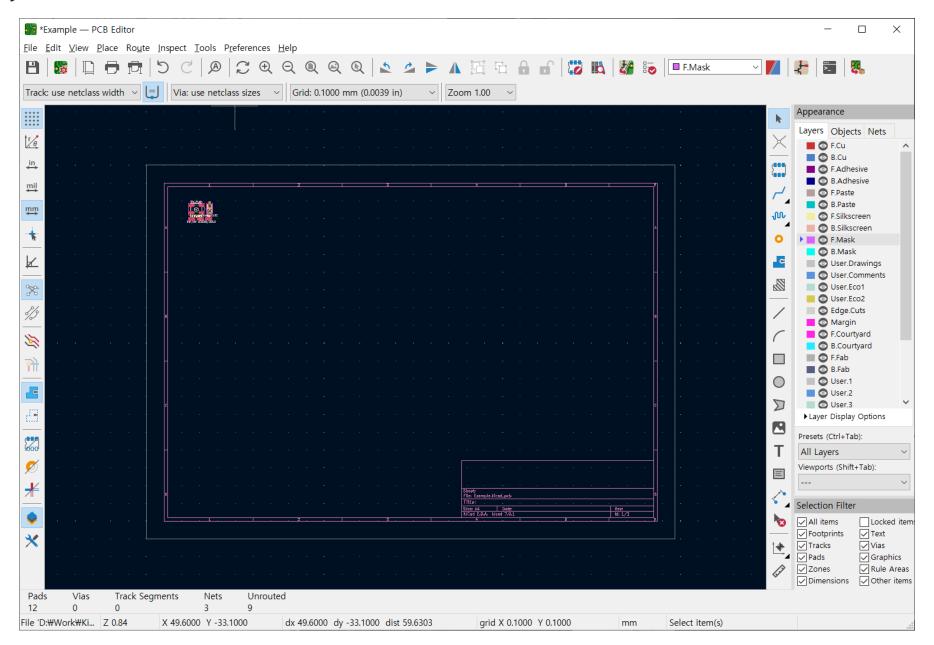






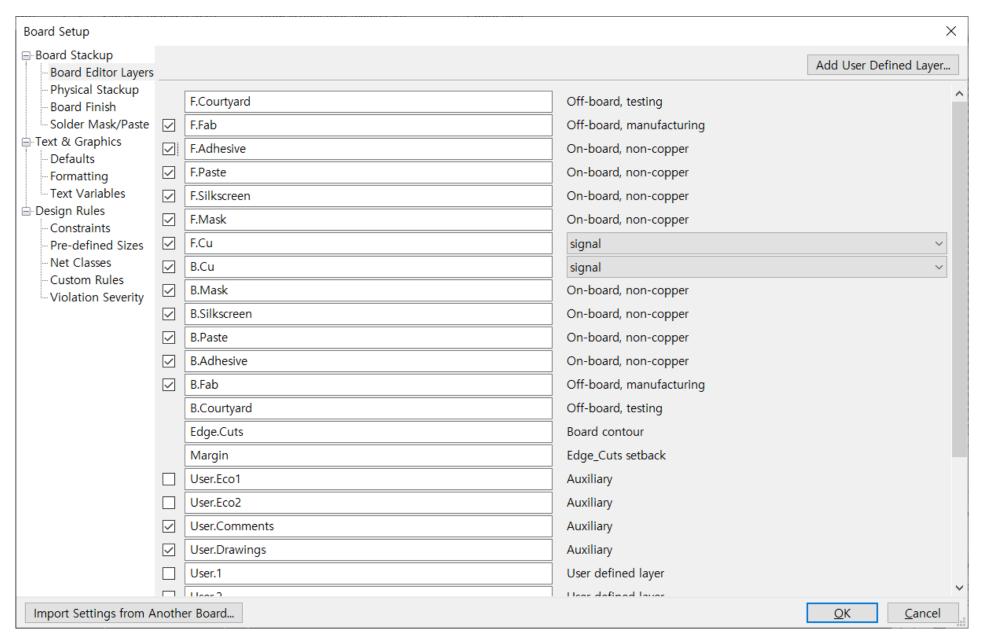






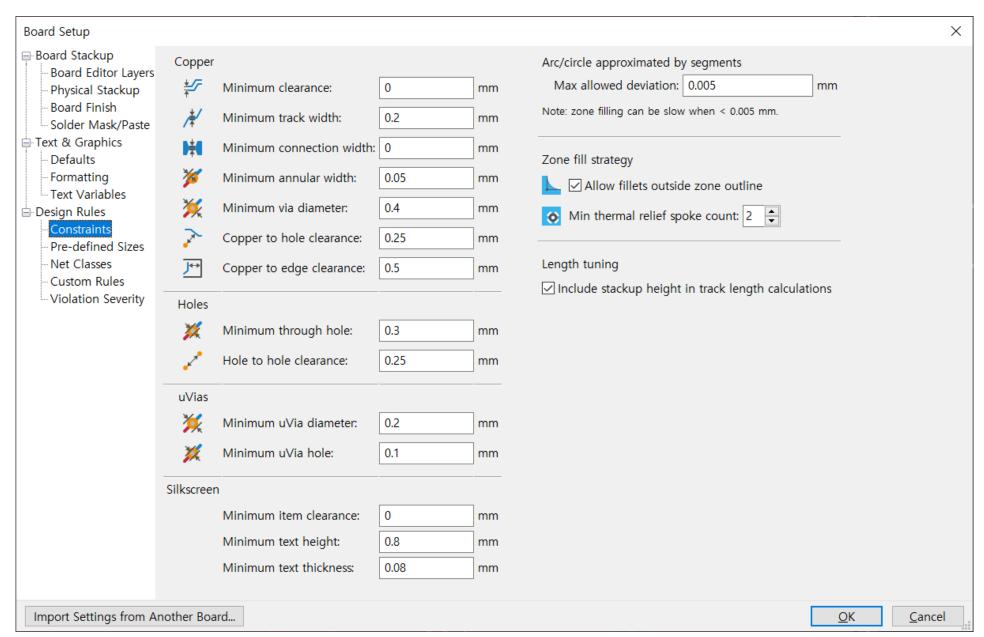


# **Board Layout: Board setup**

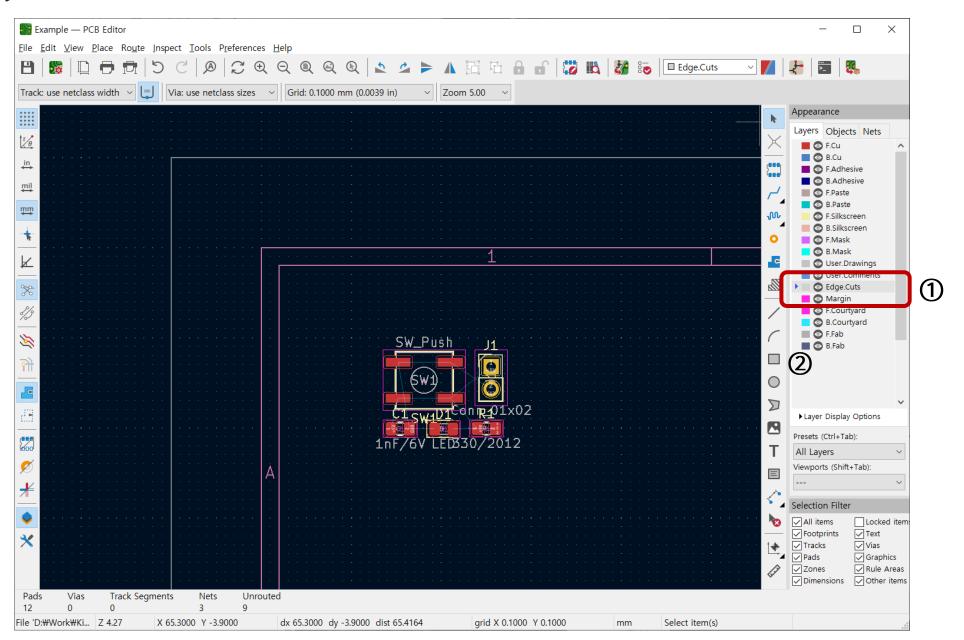




# **Board Layout: Board setup**

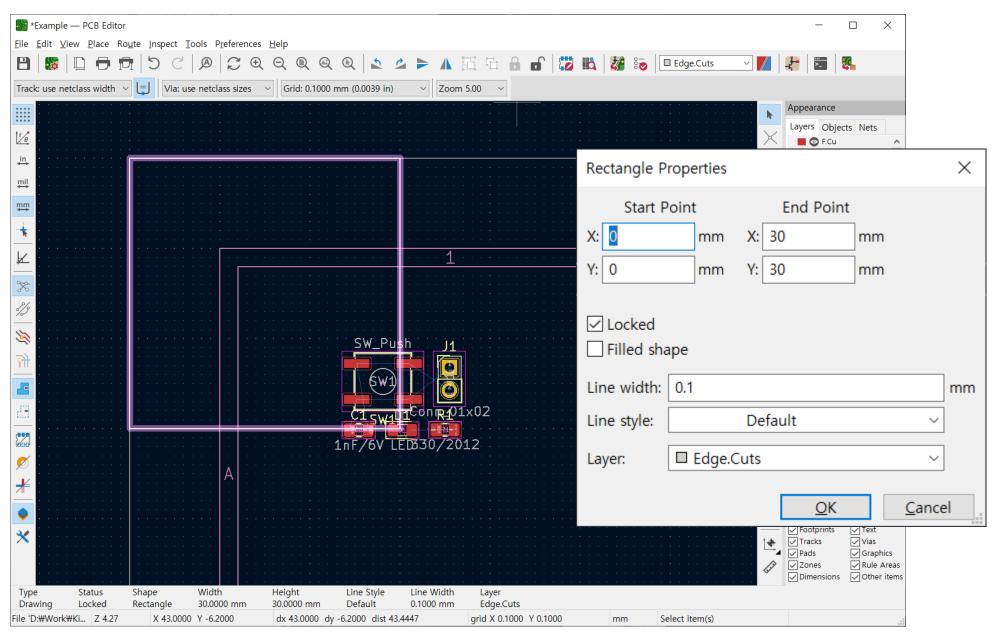






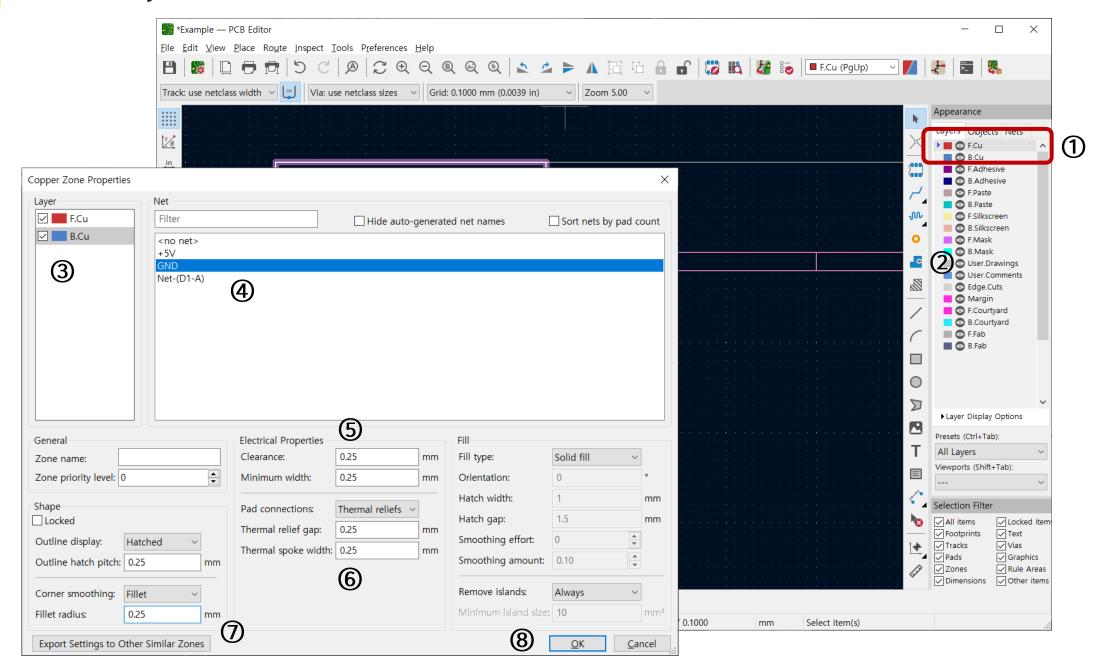


#### Board Layout: 경계선 긋기



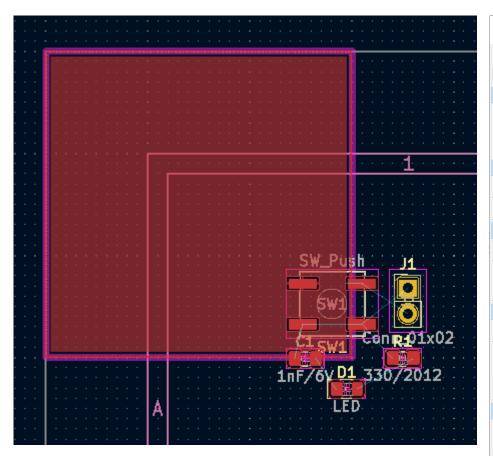


# Board Layout: Pour 그리기



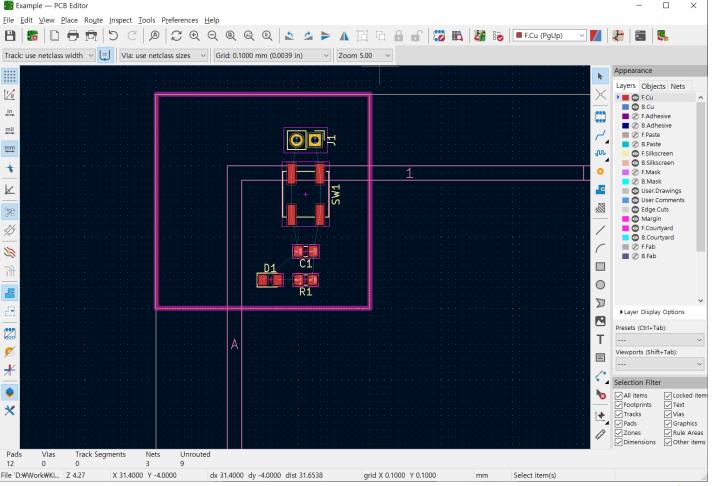


#### 단축키: B



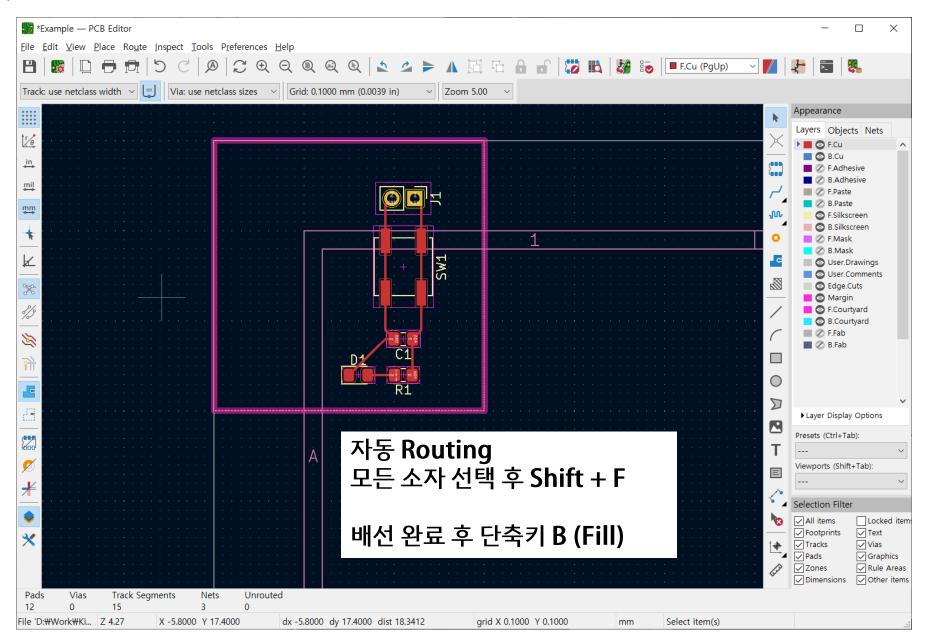
Edgecut 경계선과 똑같은 크기로 그리더라도, board setup에서 지정한 copper to edge clearance가 적용됨.

#### 단축키: Ctrl + B 후에 배치

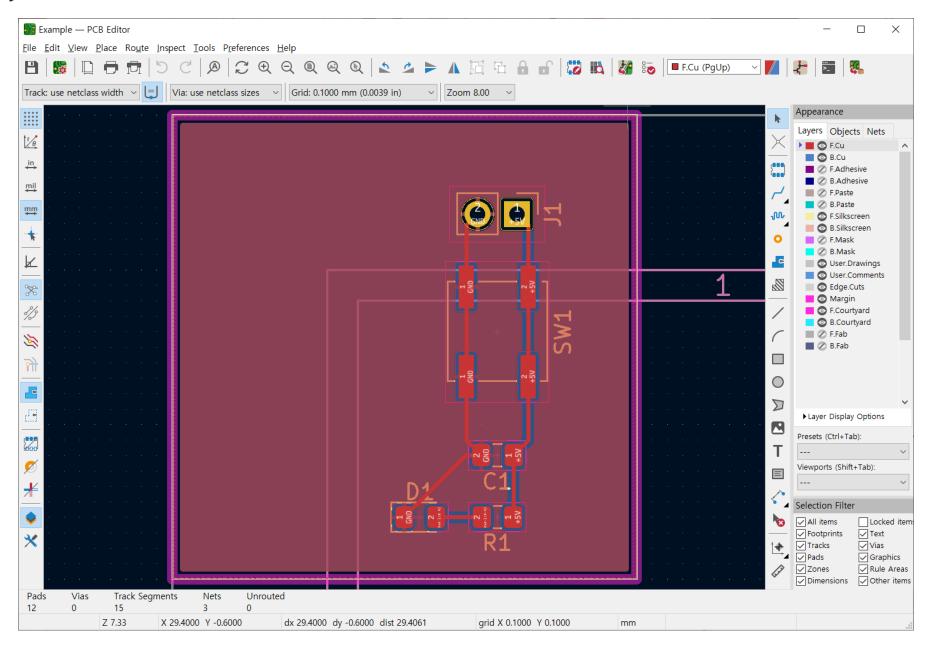




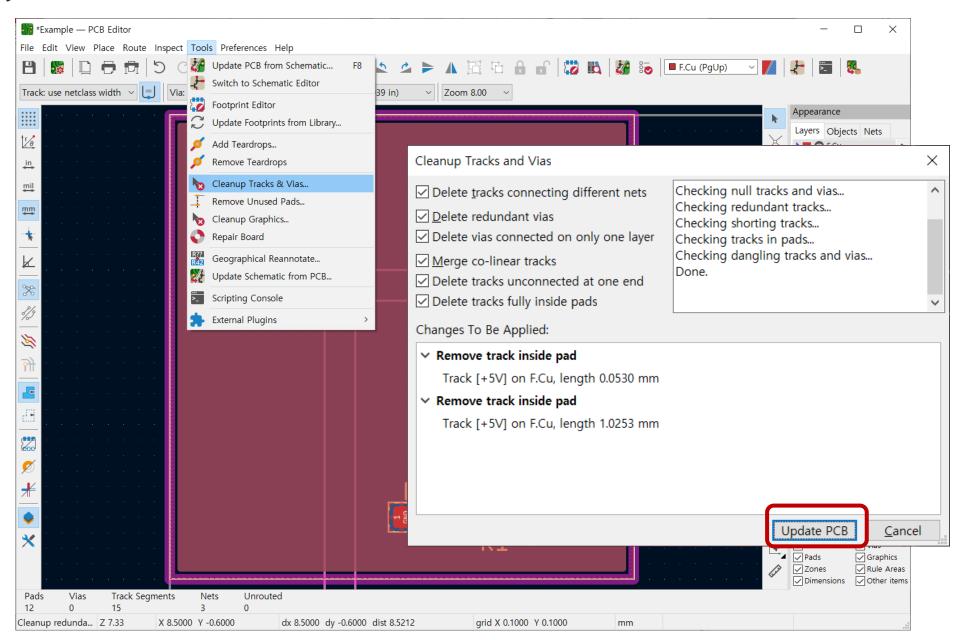
# **Board Layout: Routing**





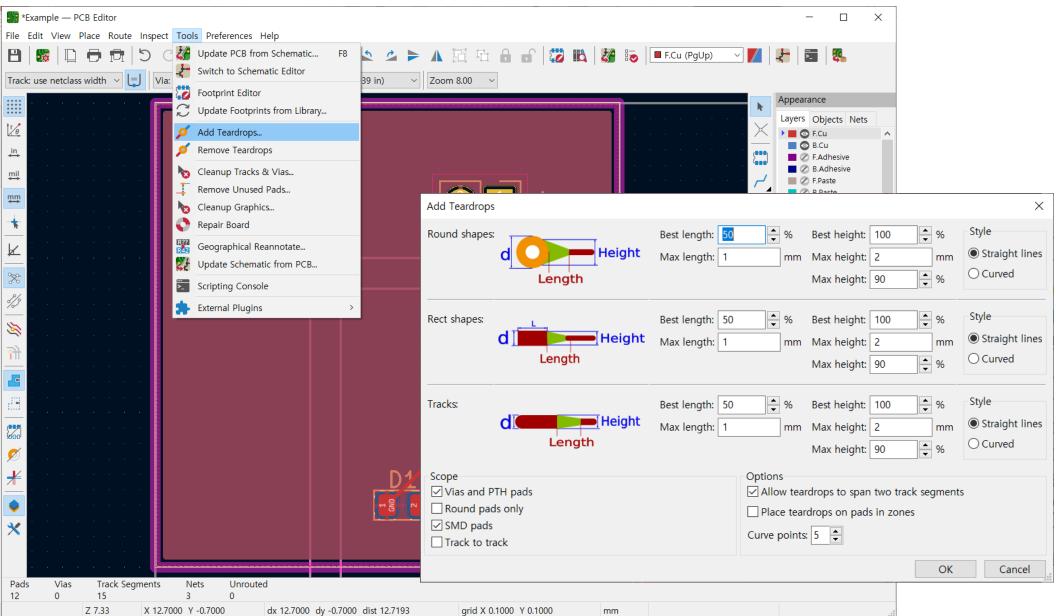




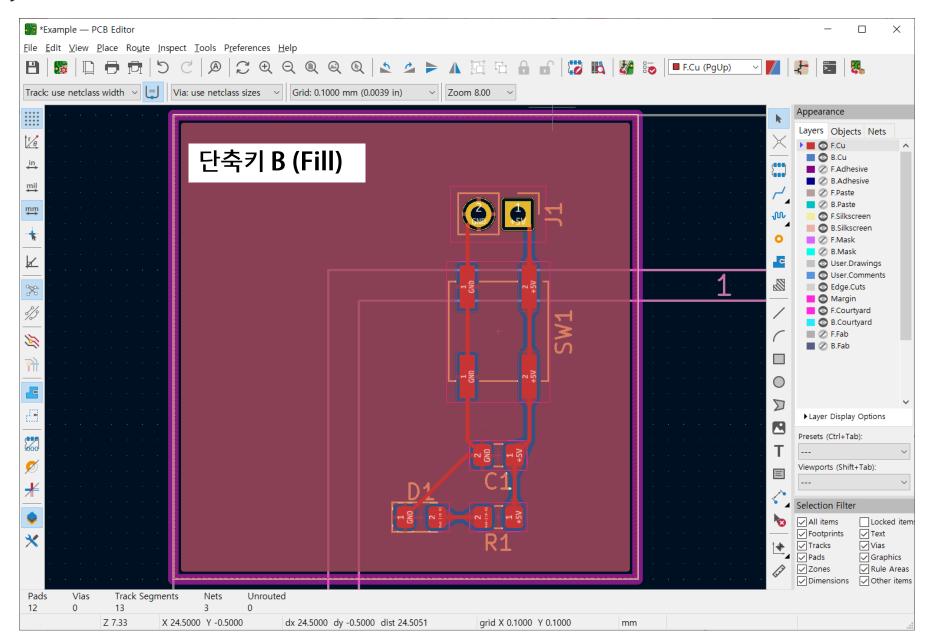




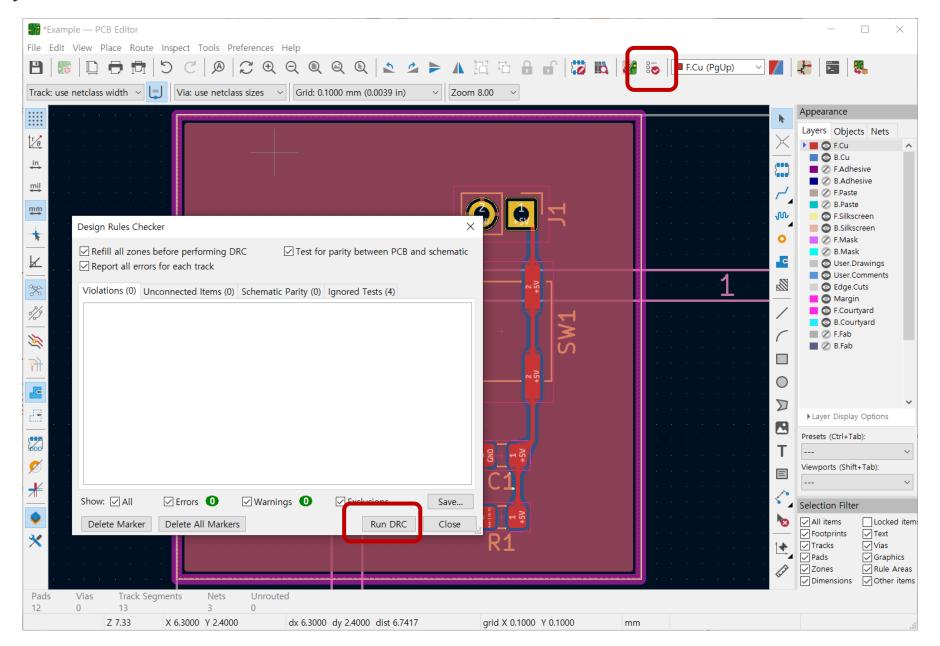
# Board Layout: 선택 사항





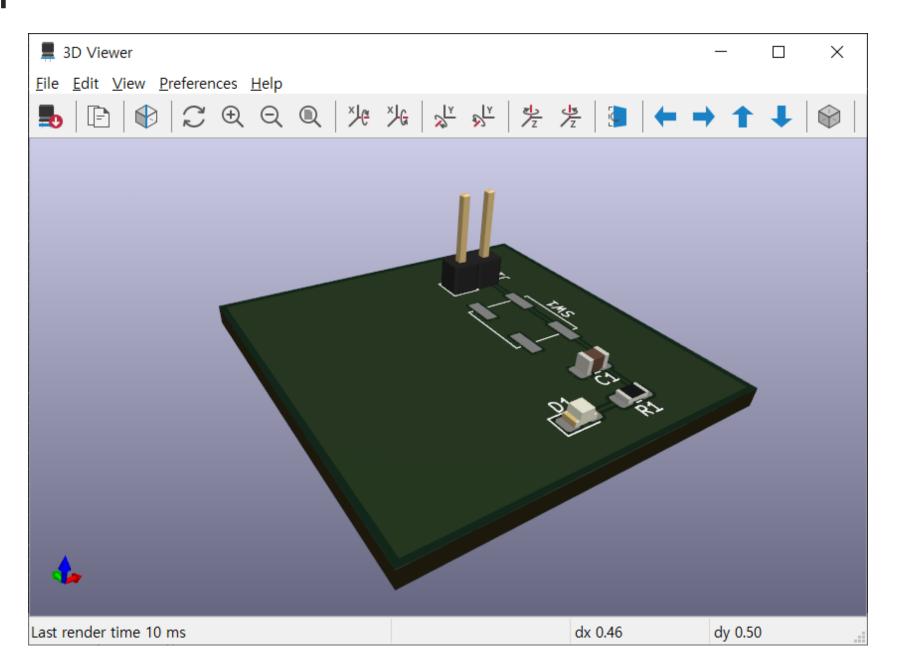






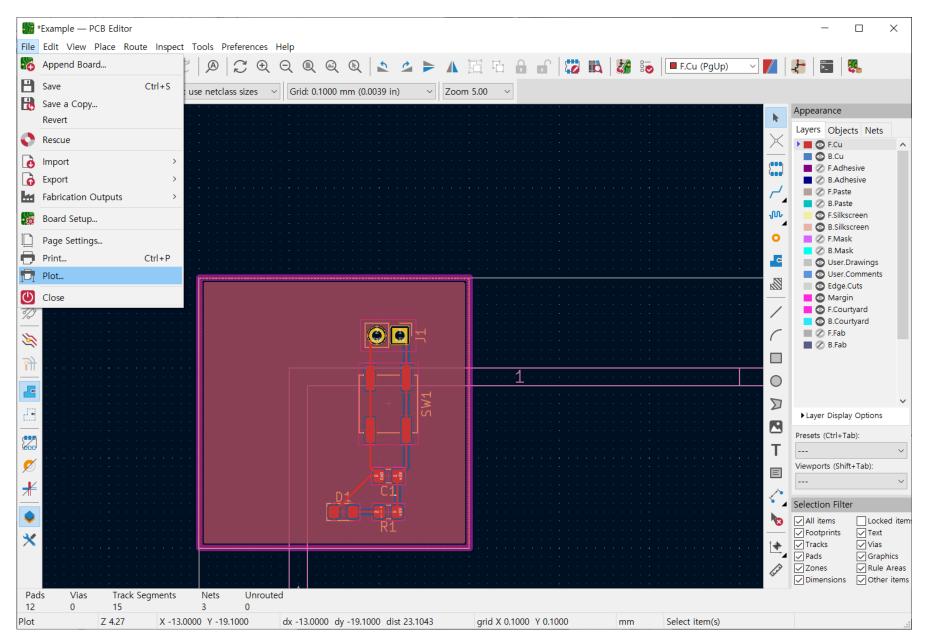


#### 3D Viewer



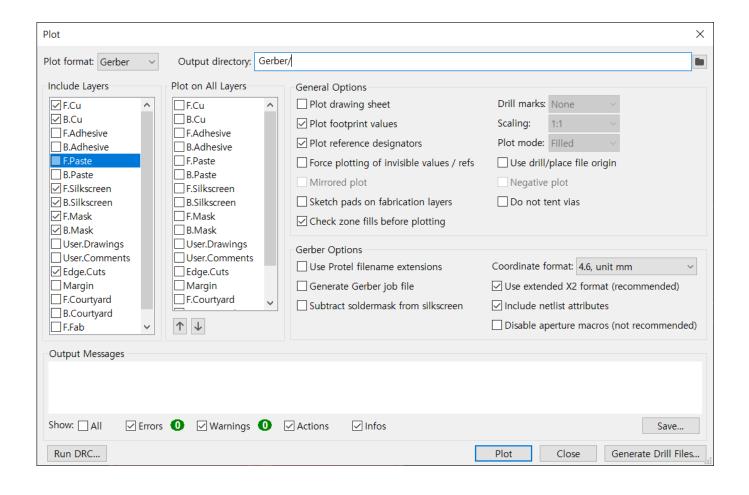


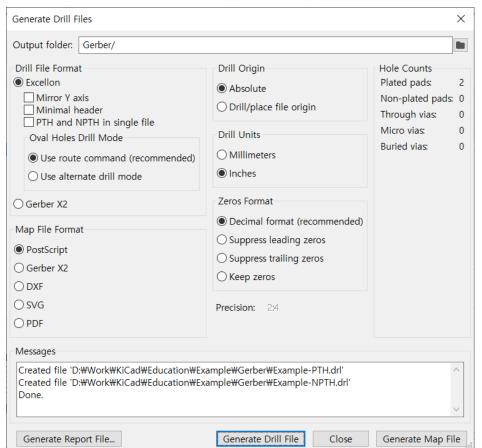
# Post processing





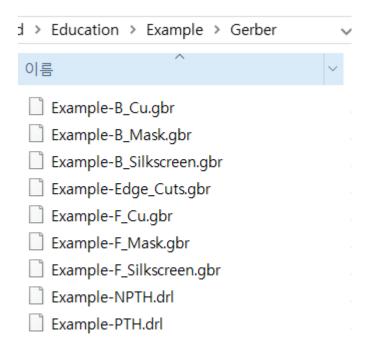
#### Post processing

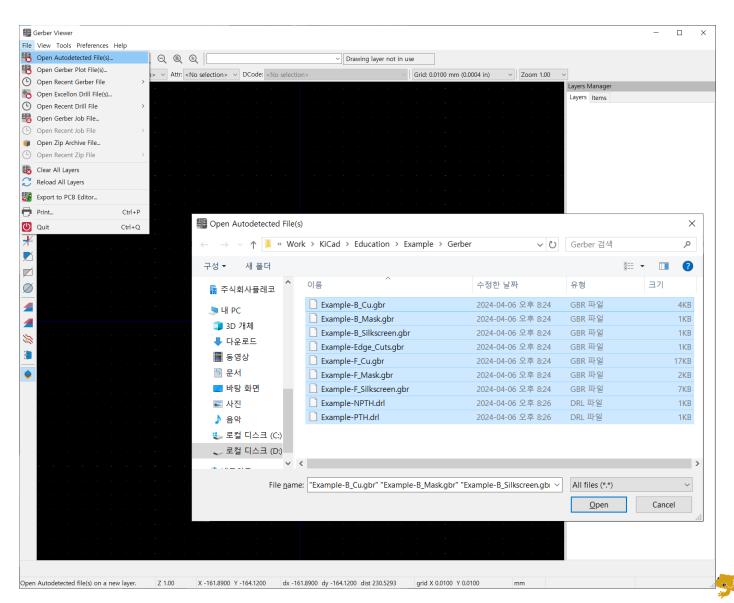




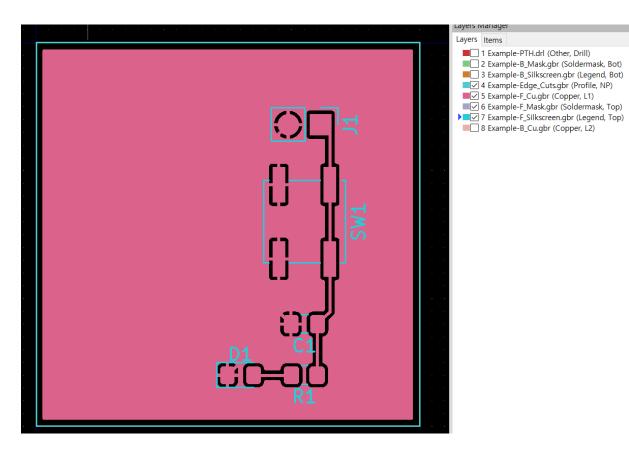


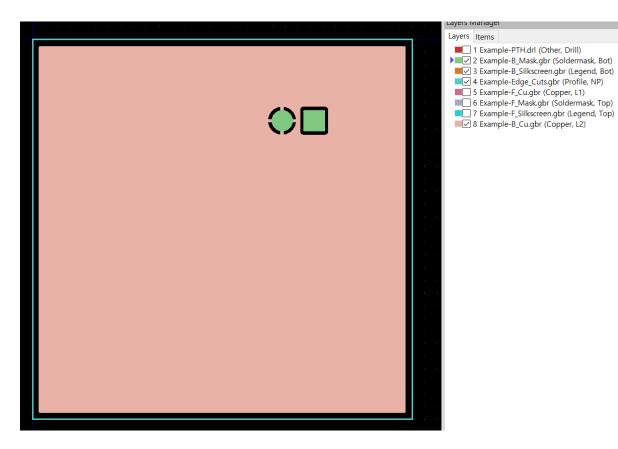
# Post processing





# Post processing: Check result







# Thank you!

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