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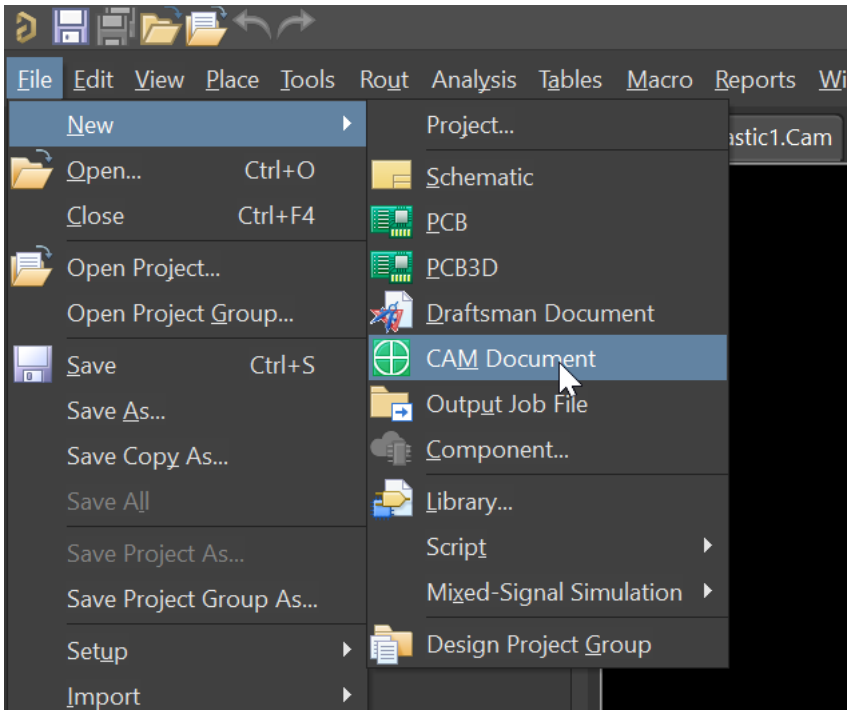
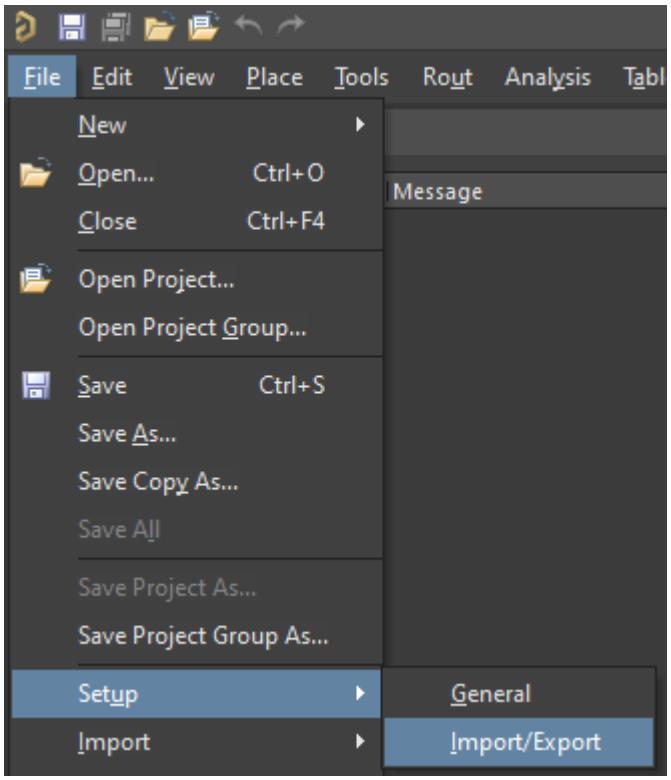
1. Process of importing Gerbers and Drill to Altium Designer

1.1 Importing Gerbers and Drill

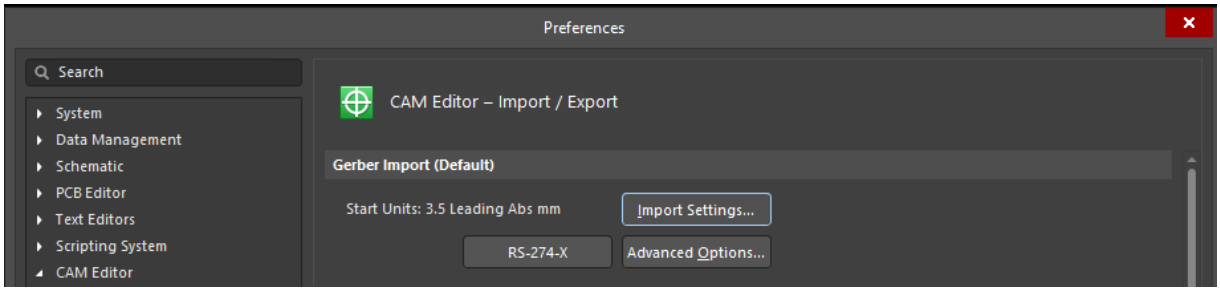
1.1.1. Create new CAM Document in Altium Designer



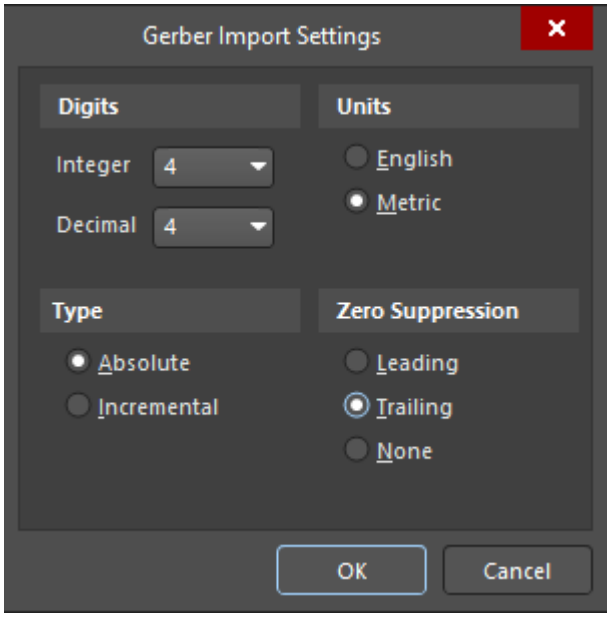
1.1.2. Set up your import rules



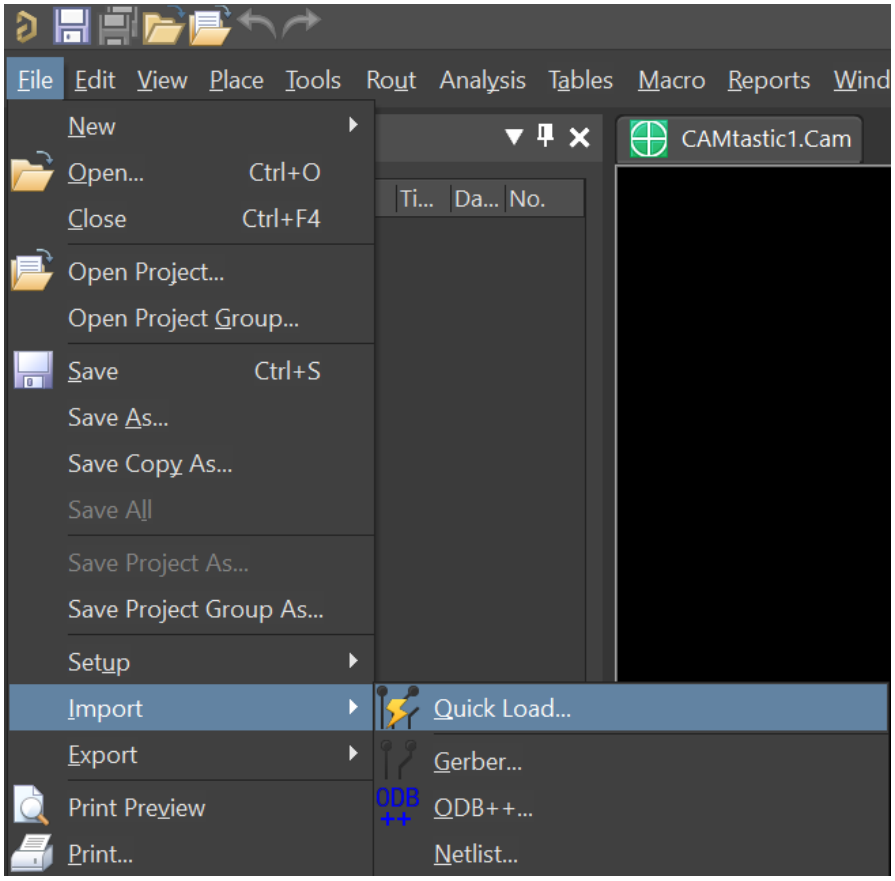
1.1.3. Select Import Setting in the Gerber Import (Default) section



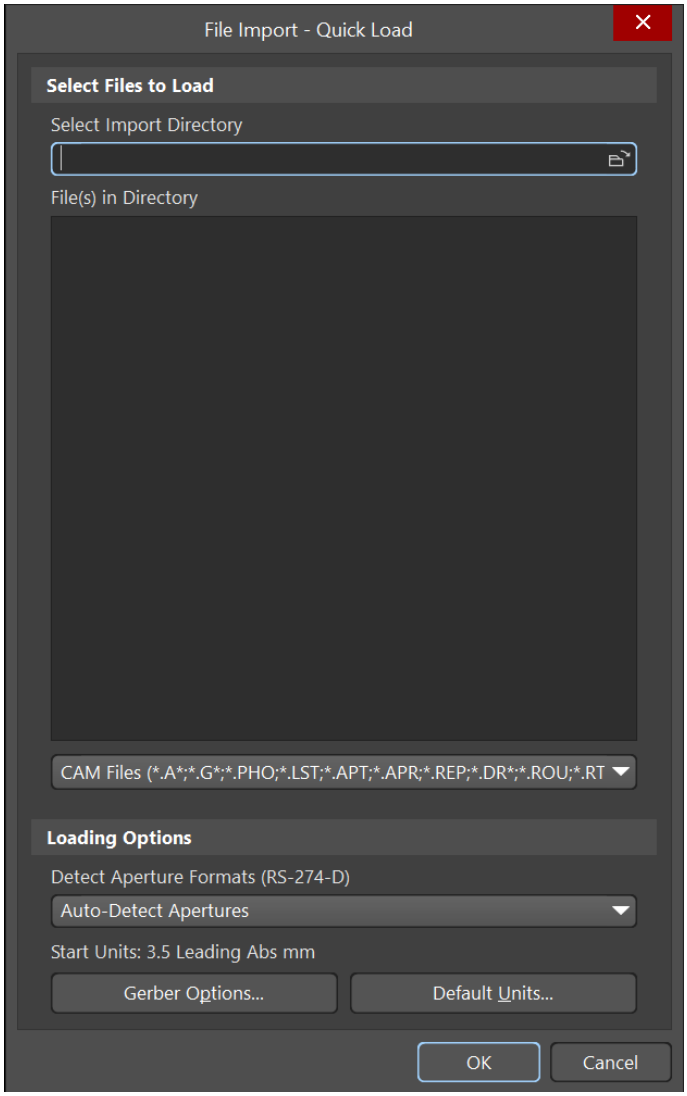
1.1.4. Set the exact same values then press OK



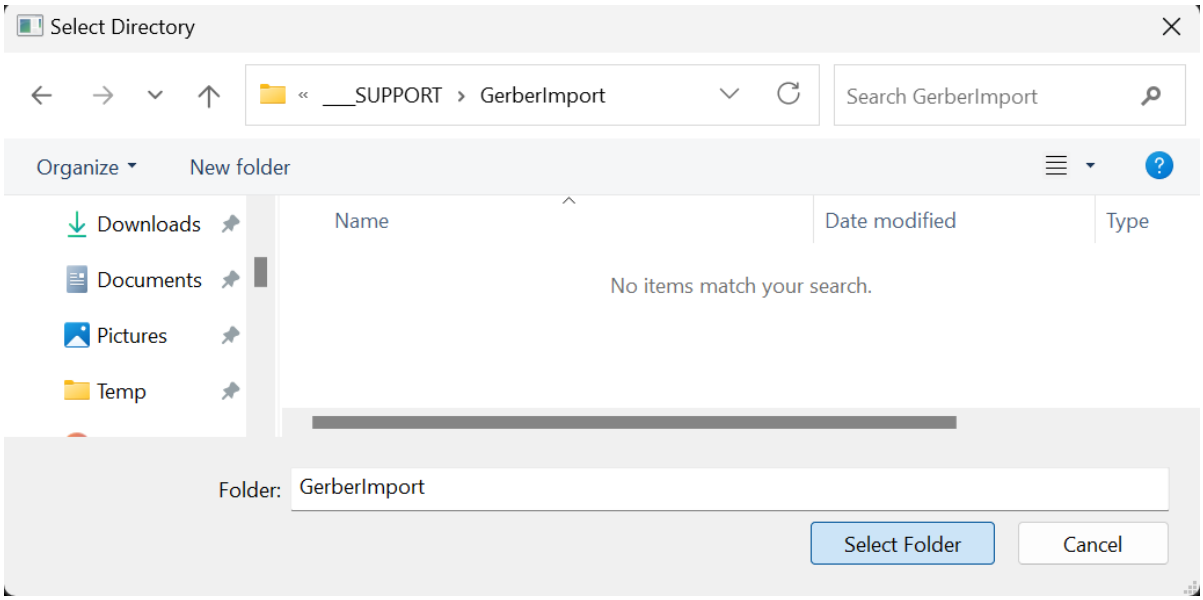
1.1.5. Import Gerber and Drill Files with Quick Load (hot keys are F I Q)



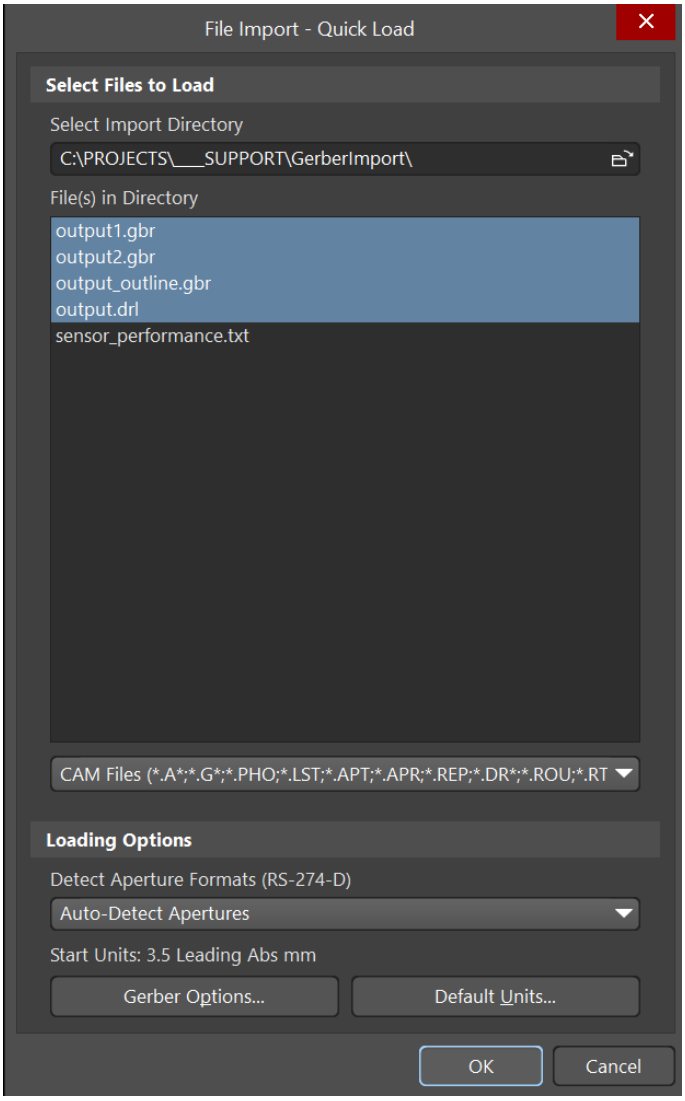
1.1.6. Select Import Directory by clicking the folder icon at the right side of the path field



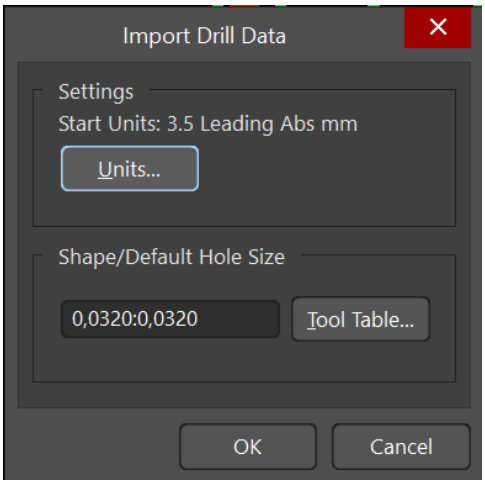
1.1.7. Find the path and Select Folder



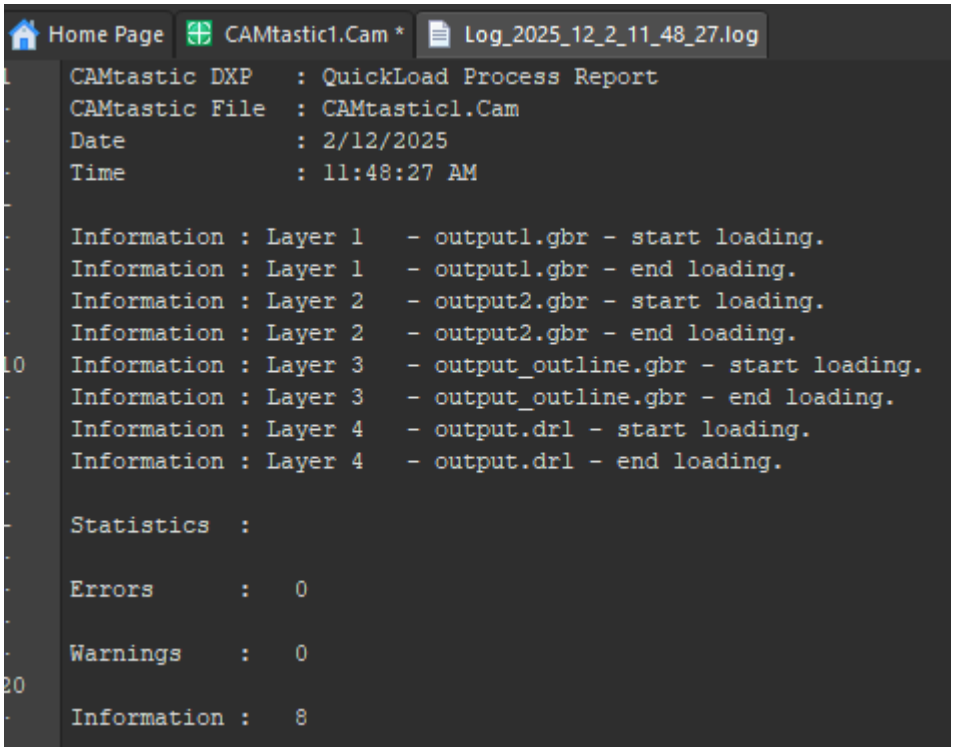
1.1.8. Select Gerbers and Drill then press OK



1.1.9. Press OK, the units are already set

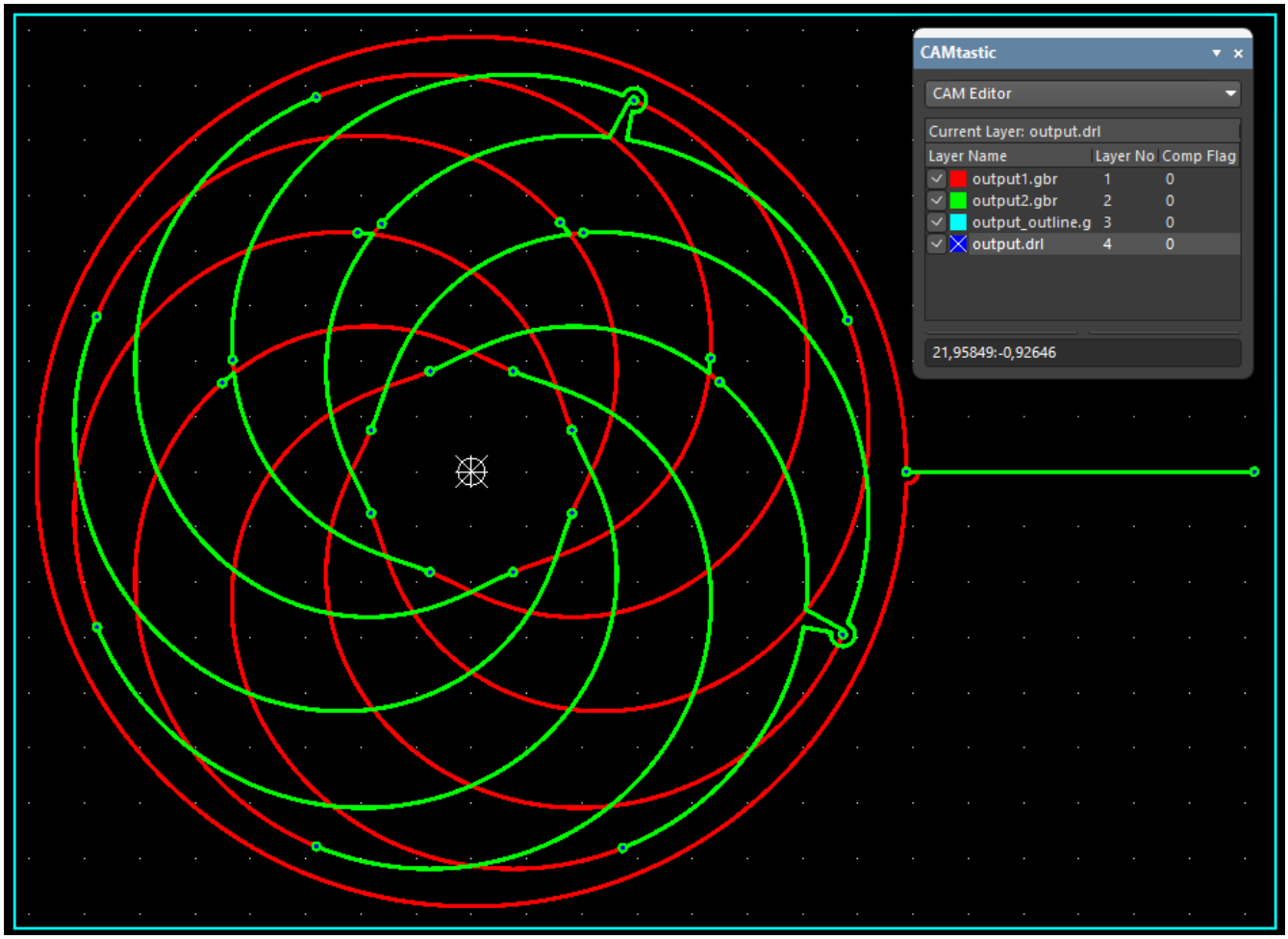


1.1.10. Warnings and Errors should be 0, then close this log file



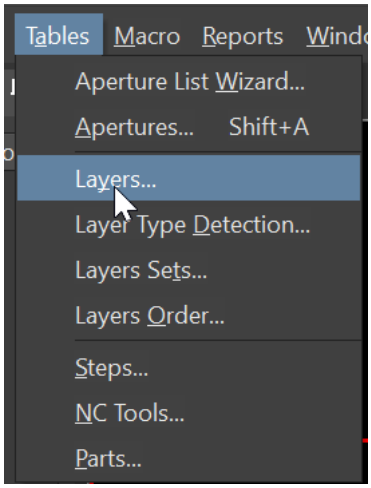
```
Home Page   CAMtastic1.Cam *   Log_2025_12_2_11_48_27.log

CAMtastic DXP    : QuickLoad Process Report
CAMtastic File   : CAMtastic1.Cam
Date             : 2/12/2025
Time             : 11:48:27 AM

Information : Layer 1   - output1.gbr - start loading.
Information : Layer 1   - output1.gbr - end loading.
Information : Layer 2   - output2.gbr - start loading.
Information : Layer 2   - output2.gbr - end loading.
Information : Layer 3   - output_outline.gbr - start loading.
Information : Layer 3   - output_outline.gbr - end loading.
Information : Layer 4   - output.drl - start loading.
Information : Layer 4   - output.drl - end loading.

Statistics  :

Errors      :   0

Warnings    :   0

Information :   8
```

1.1.11. Gerber Files and Drill(s) are successfully imported

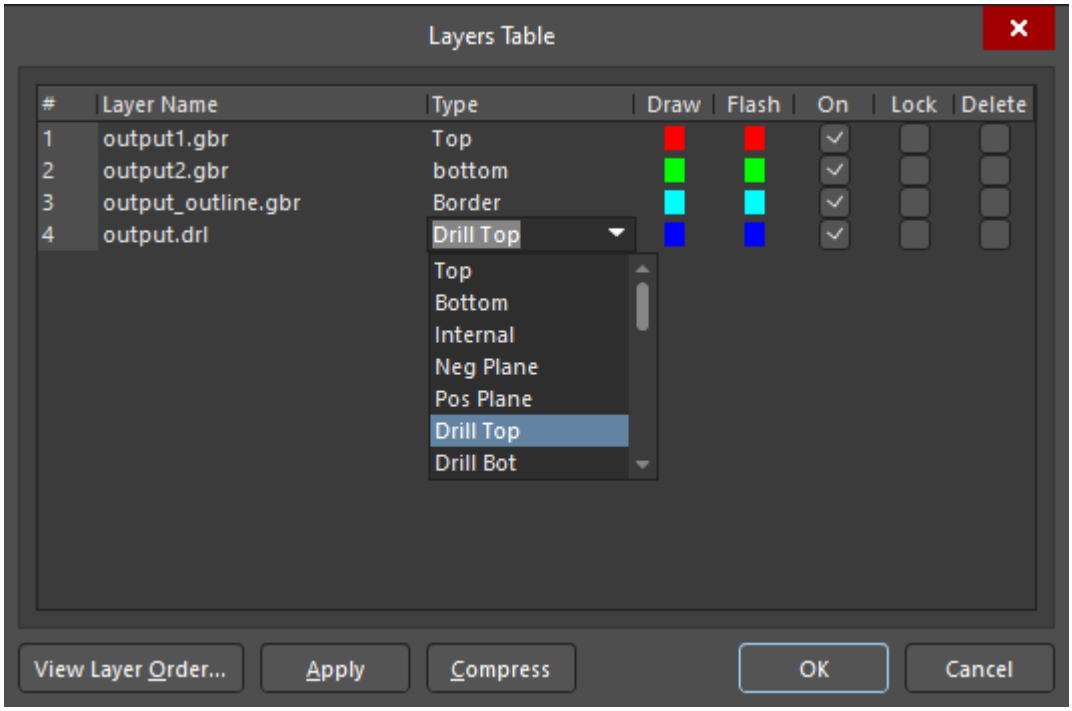


2. Adjusting the CAM File

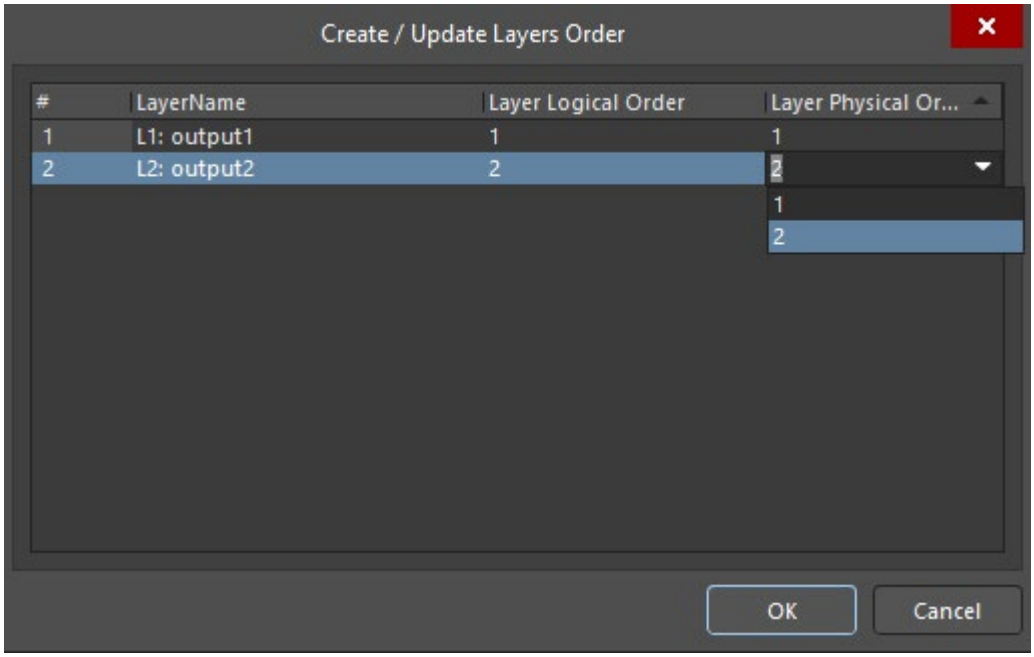
2.1 Setting the Layers



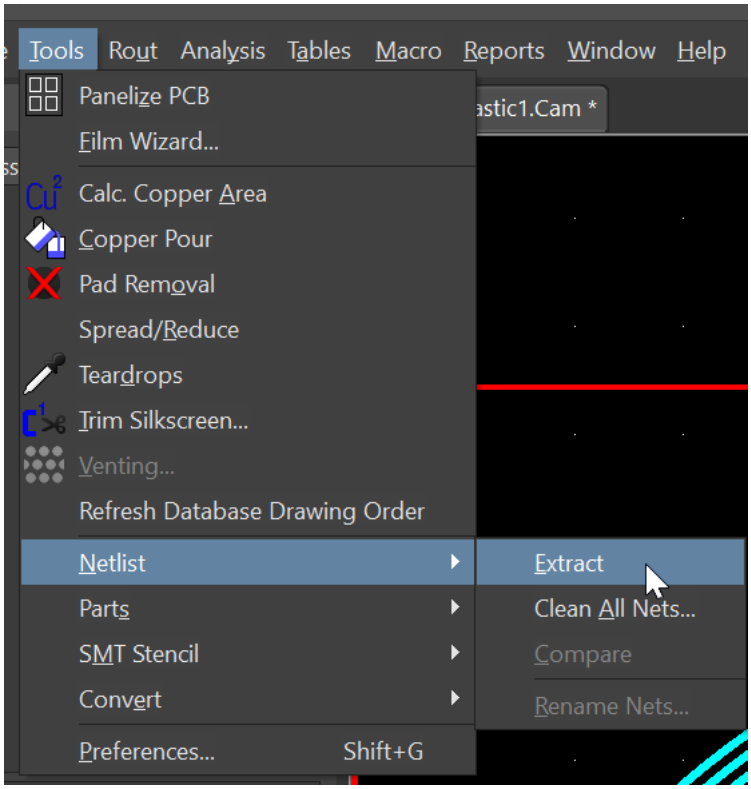
2.1.1. Set the correct layers then press OK



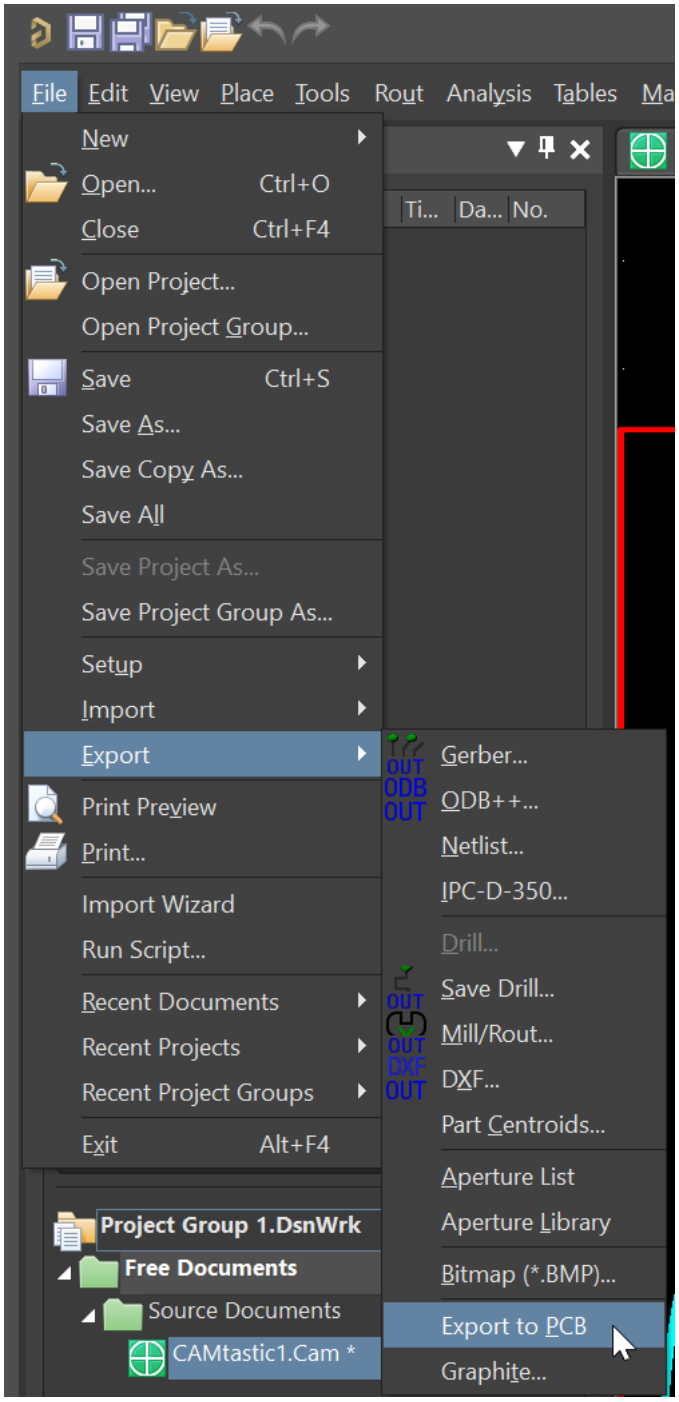
2.1.2. Set the physical layer order



2.2 Extract the Netlist



2.3 Export to PCB

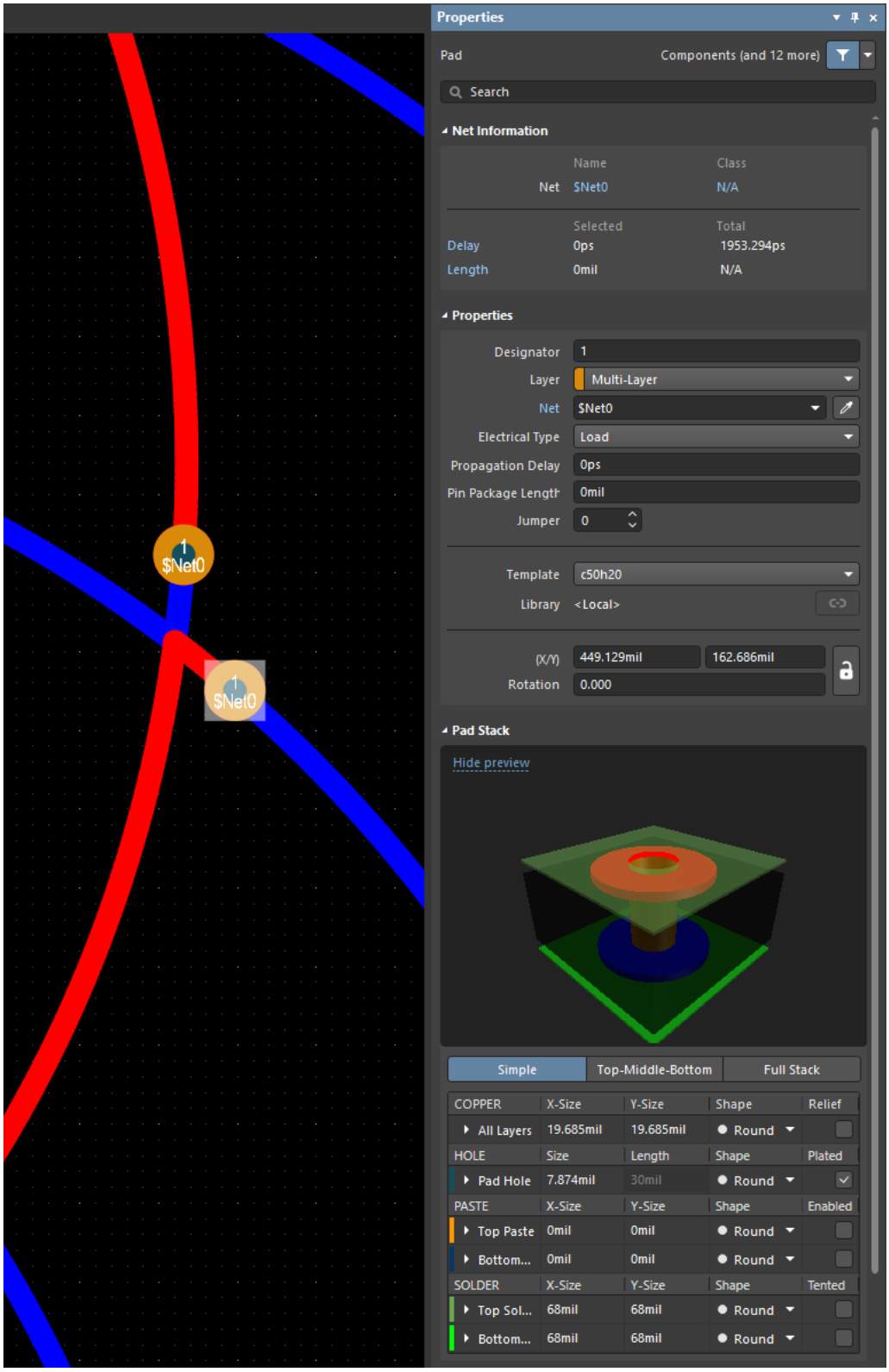


3. Adjusting the PCB

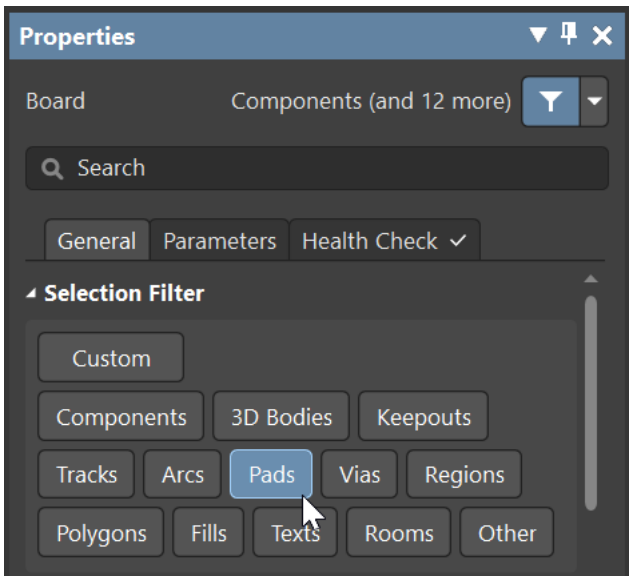
3.1 Converting Pads to Vias

3.1.1. Pad properties

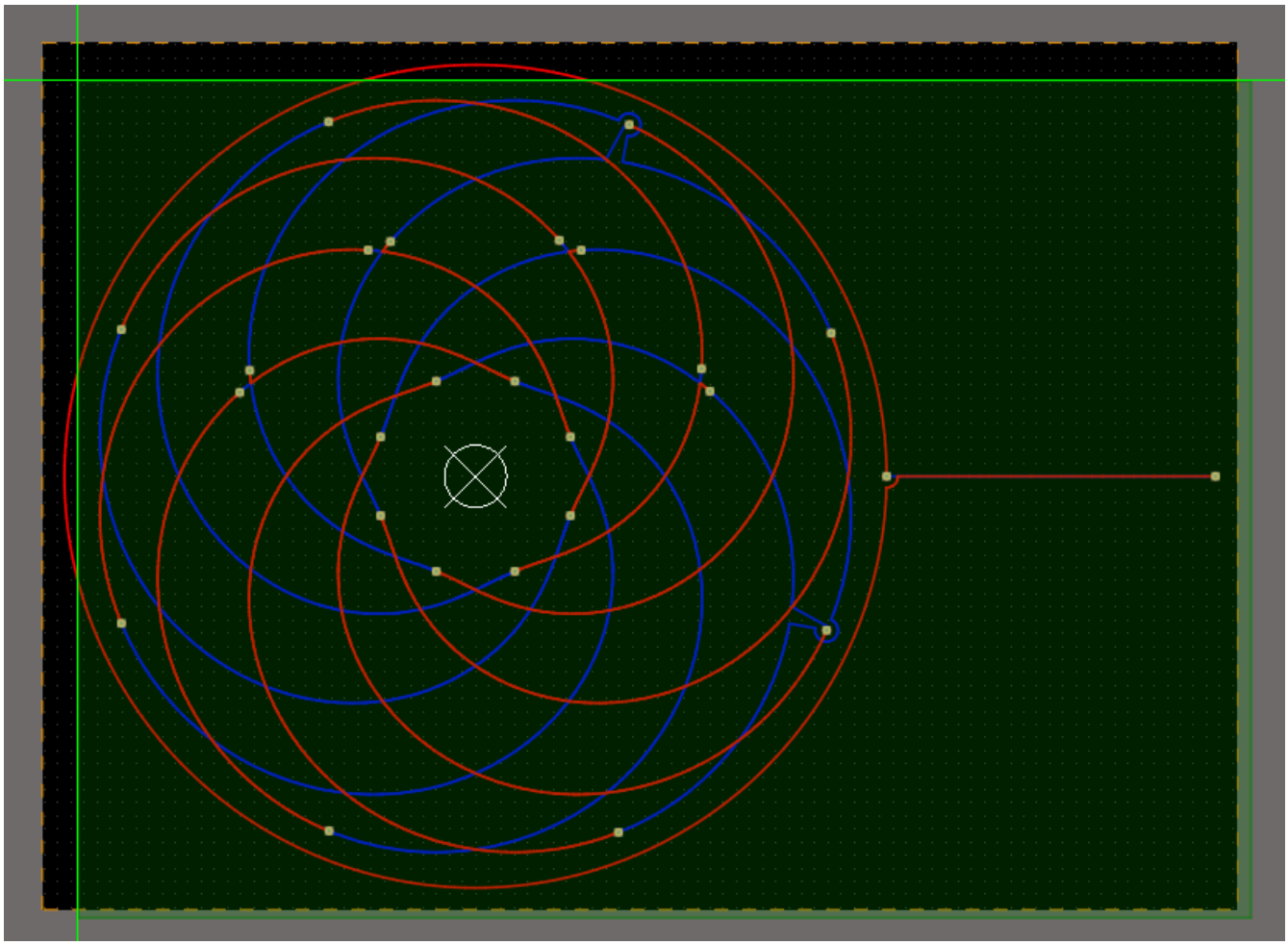
By default, via pads and via drills are imported combined as one “multilayer pad” with a plated drill hole. This can remain unchanged but, in this case, make sure that your design rules handle these “pads” correctly. We recommend converting them to “via” class.



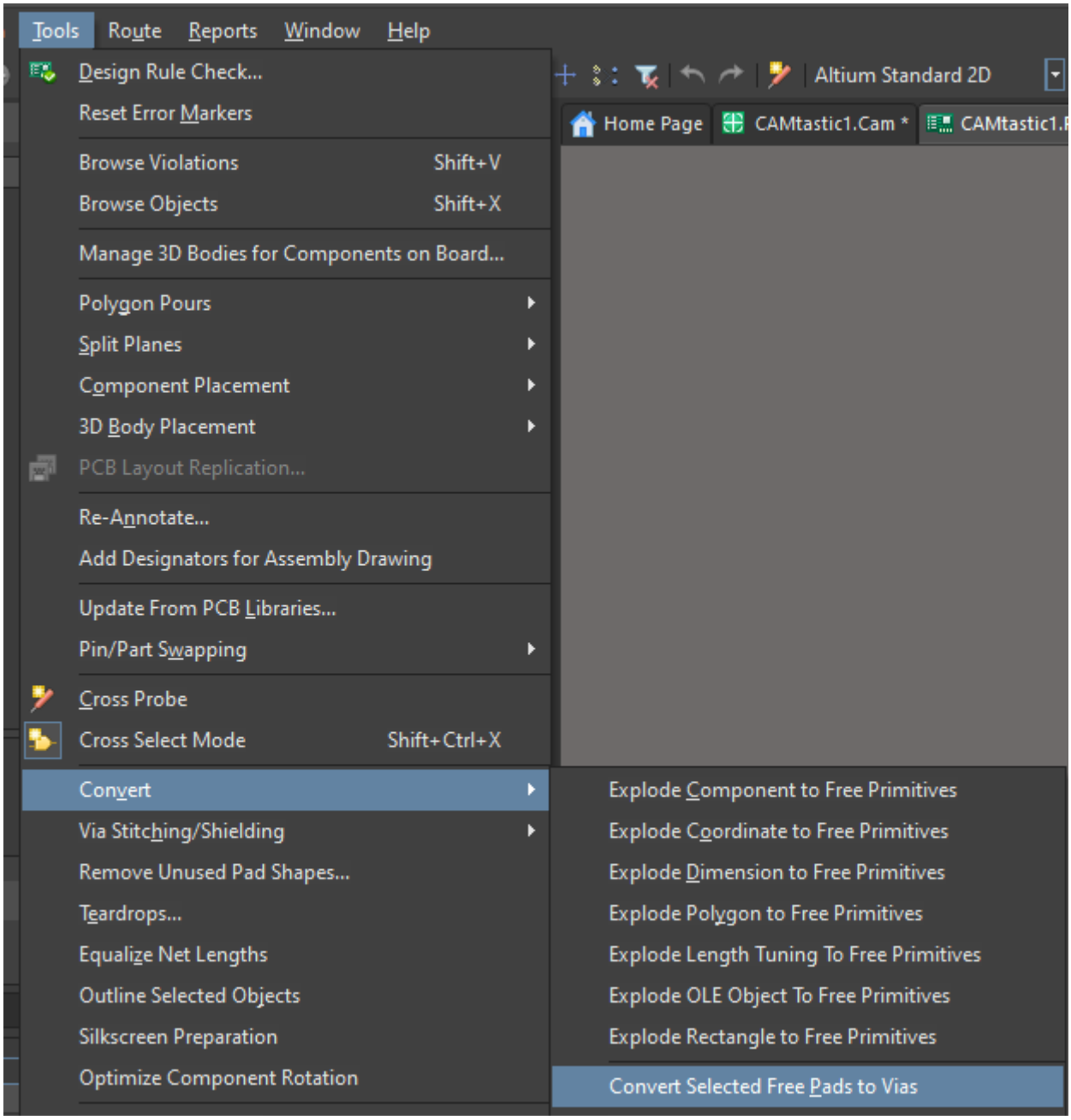
3.1.2. In Properties menu only select the Pad as selection filter



3.1.3. Select the entire imported sensor to mark all pads

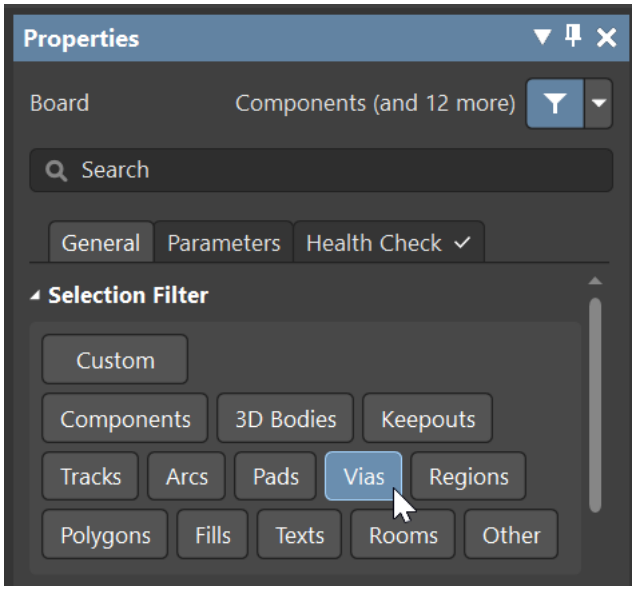


3.1.4. Convert selected free pads to vias (hot keys are T V P)

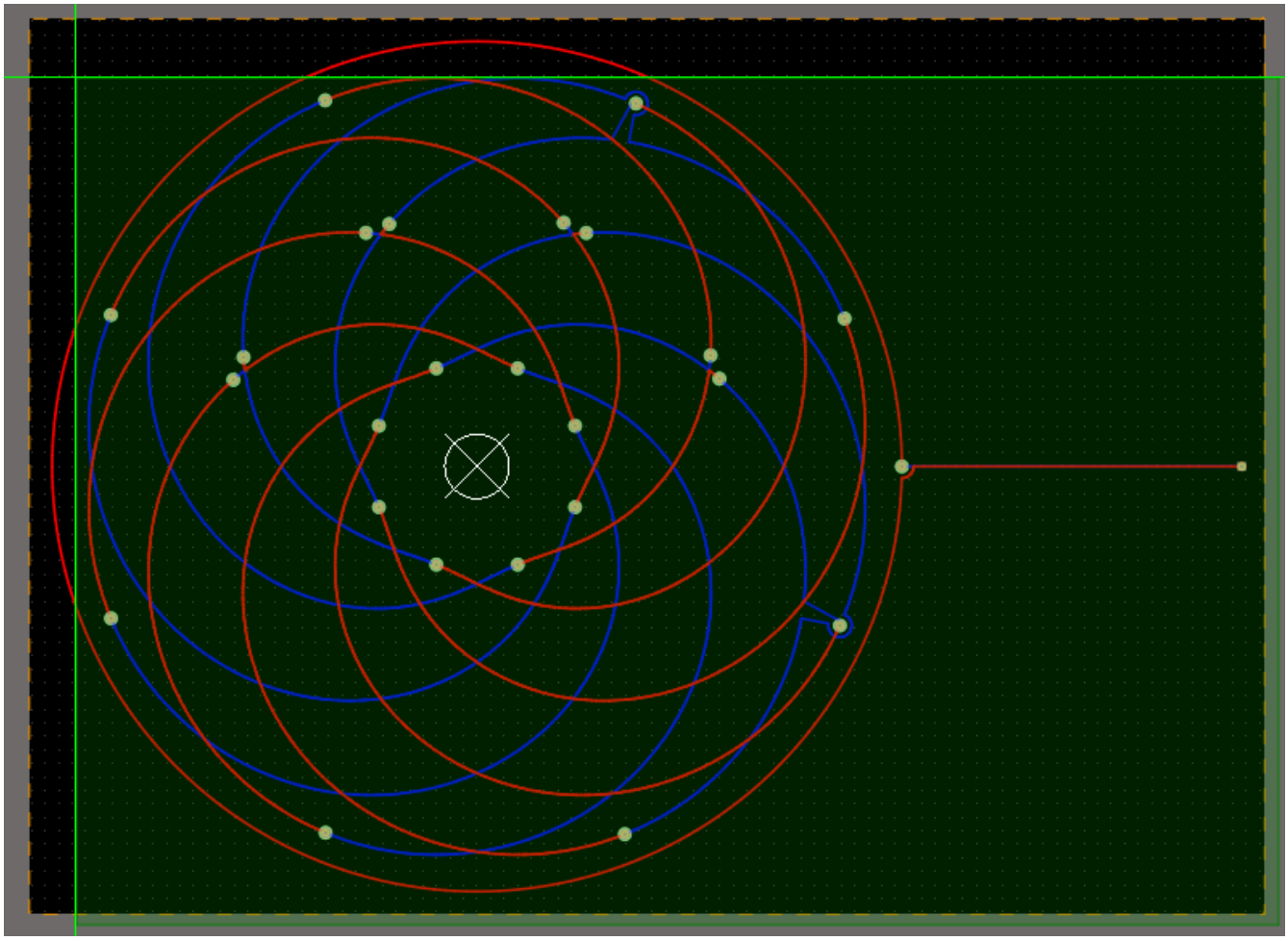


3.2 Adjusting vias

3.2.1. Select Vias in the Selection Filter under Properties

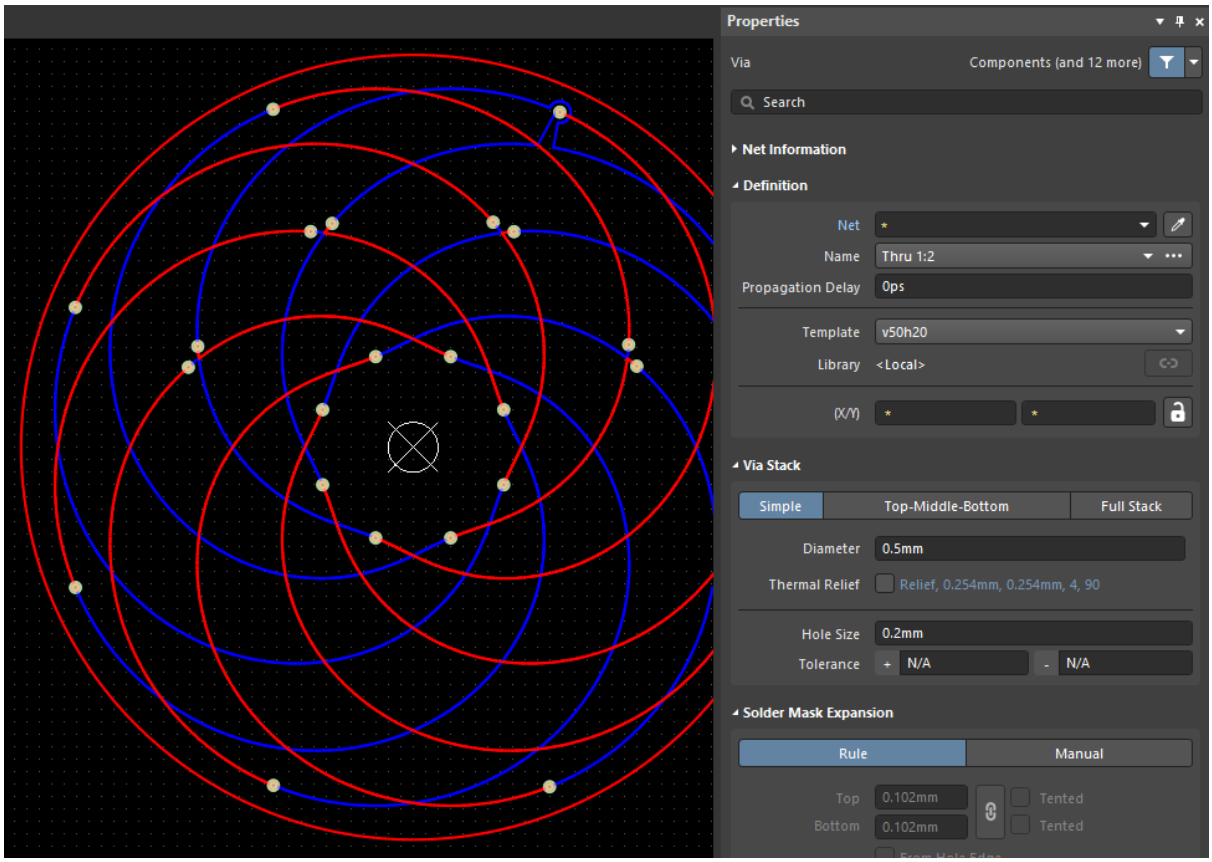


3.2.2. Select all the vias



3.2.3. Adjust Via parameters under Properties:

Via diameter and drill size should be correct, just as the simulated values. Feel free to adjust it to your needs: tenting, different sizes (then DRC must be applied to eliminate distance related issues)



3.3 Adjust the rest

Net Names, adjust the output headers, copy coils to a chip layout template, connect the sensing element to the IPS chip, finalize the layout, properly run a DRC (design rules check), etc.

3.4 Don´t forget to Save the PCB! 😊

4. Revision History

Revision	Date	Description
1.0	Jul. 22, 24	Initial release.
1.1	Dec. 2, 25	Update with Quick Load function
1.2	Dec. 2, 25	Update in Quick Load explanation due to bugfix in the IPSCO Gerber tool

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