

TDK Component Library for SIMetrix™/SIMPLIS®

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Marketing Strategy Group
Products & Application Collaboration
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Caution

▶ Applicable condition

The parameters in this library are obtained under the condition of 25°C, no DC bias (excepting the DC bias model and the DC superimposition model), and small signal operation. Proper result might not be obtained if your condition is different from the above one.

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About this document

This document is described assuming the following environment.

OS : Windows 11

SIMetrix/SIMPLIS version : 9.2h (x64)

On different OS or SIMetrix/SIMPLIS versions, screen display and/or operation procedure may not correspond to the contents of this document.

Please acknowledge it beforehand.

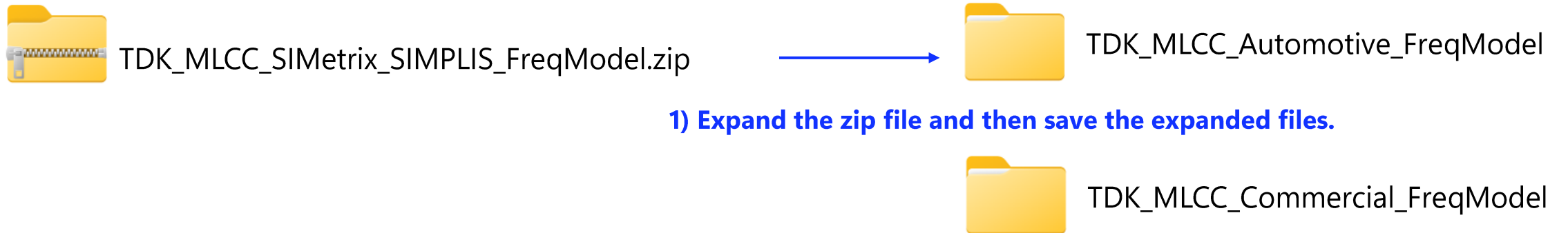
*SIMetrix is a trademark of SIMetrix Technologies, Ltd.
SIMPLIS is a US registered trademark of SIMPLIS Technologies, Inc

Preparation of the library files

1) Expand the library file in zip format and save it in any directory.

After importing the library, do not move or rename the expanded folder.

The model may not be loaded correctly. The zip file may be deleted after it has been expanded.

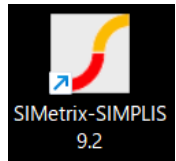


Importing the library

The procedure is explained below using TDK_MLCC_Automotive_FreqModel as an example.

The same procedure applies when using other models.

- 1) Start SIMetrix/SIMPLIS.
- 2) Drag and drop the expanded library folder into the "Command Shell" window.

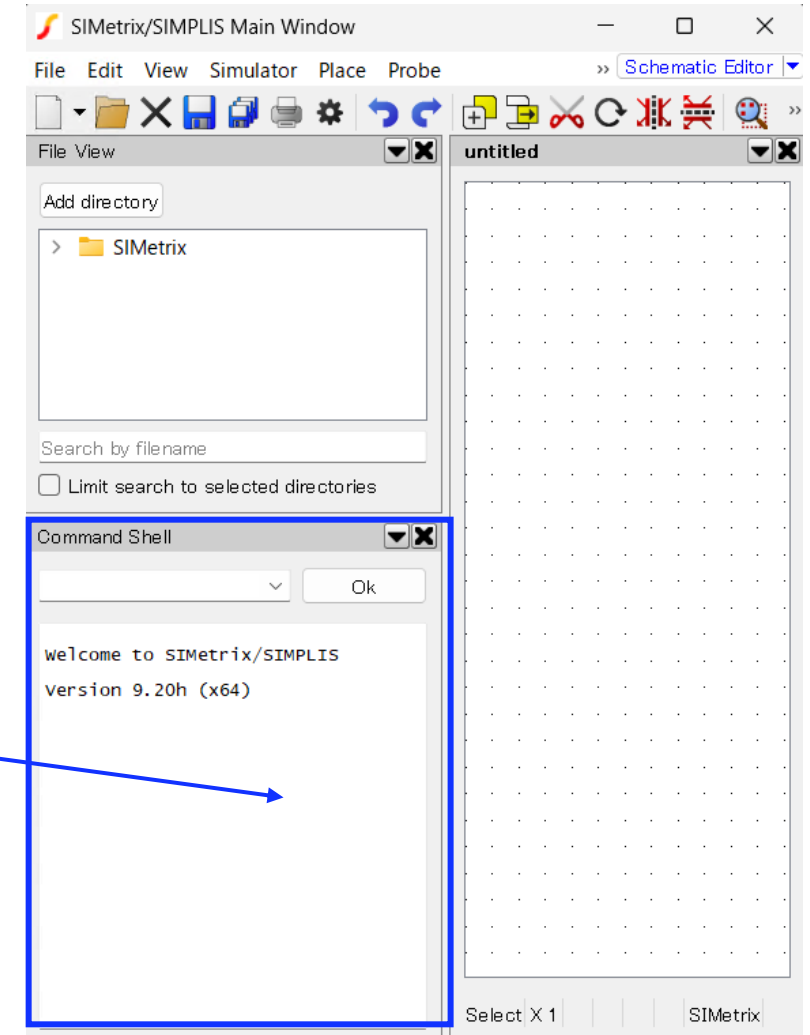


1) Start SIMetrix/SIMPLIS



TDK_MLCC_Automotive_FreqModel

2) Drag and drop the library folder



Importing the library (Continued)

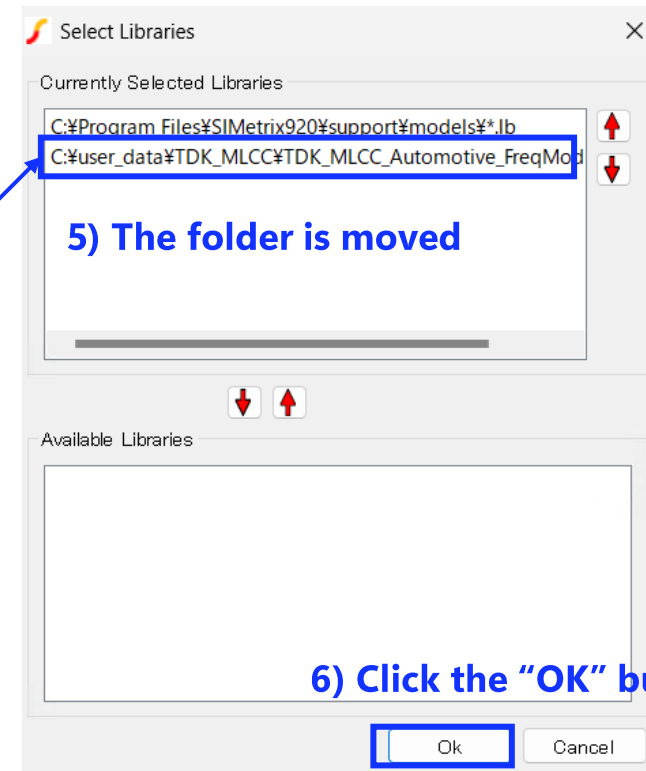
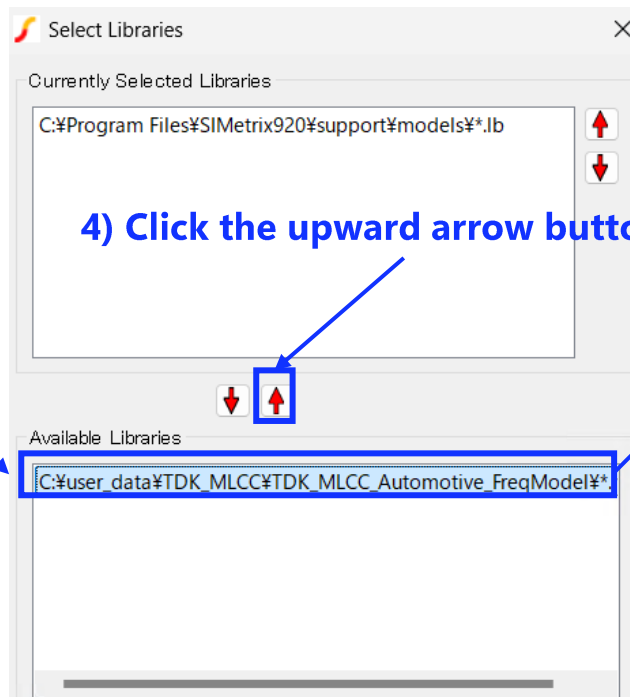
- 3) The "Select Libraries" window opens. Select the folder you just dragged and dropped from within "Available Libraries".
- 4)  Click the upward arrow button.
- 5) The folder will be moved to "Currently Selected Libraries".
- 6) Click the "OK" button. The model library is imported.

3) Select the folder

4) Click the upward arrow button

5) The folder is moved

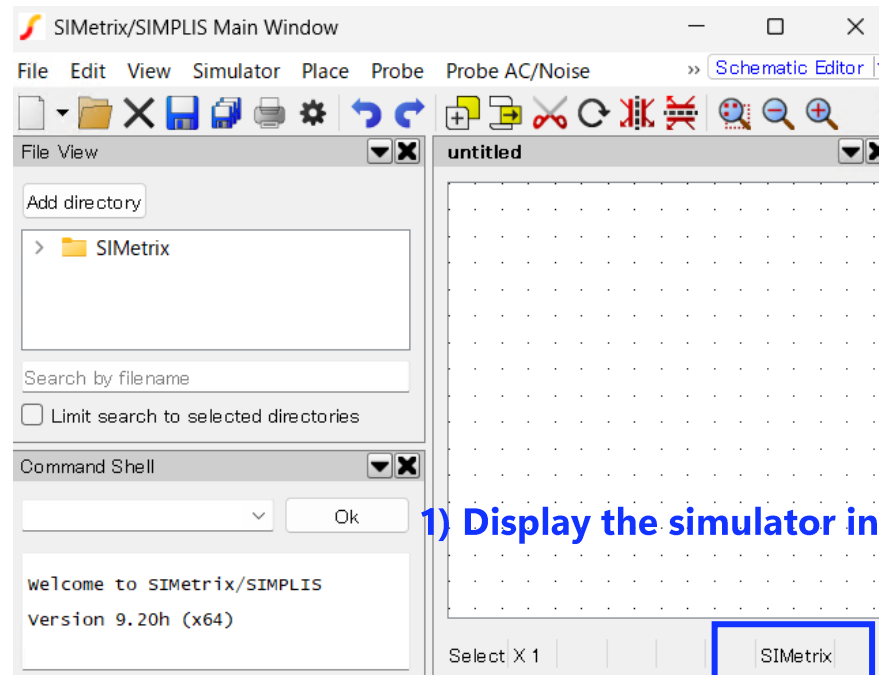
6) Click the "OK" button.



Selecting the simulator

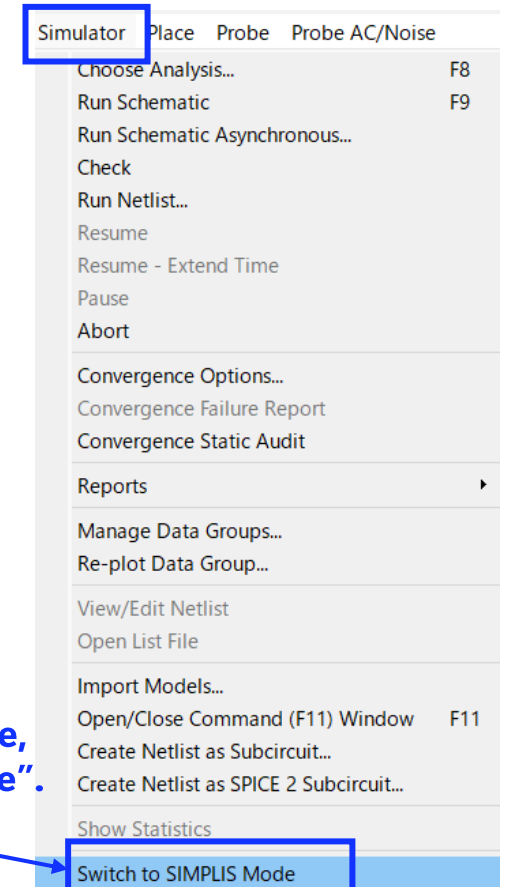
Select the simulator mode to use.

- 1) The active simulator mode is displayed at the bottom of the "SIMetrix/SIMPLIS Main Window".
- 2) To change the simulator mode, select either "Simulator" > "Switch to SIMPLIS Mode" or "Simulator" > "Switch to SIMetrix Mode".



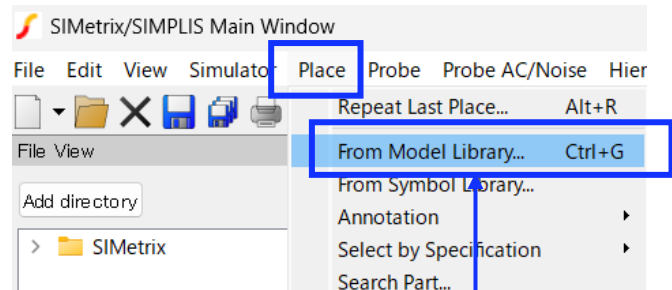
1) Display the simulator in use

2) To change the simulator mode, click "Switch to SIMPLIS Mode".

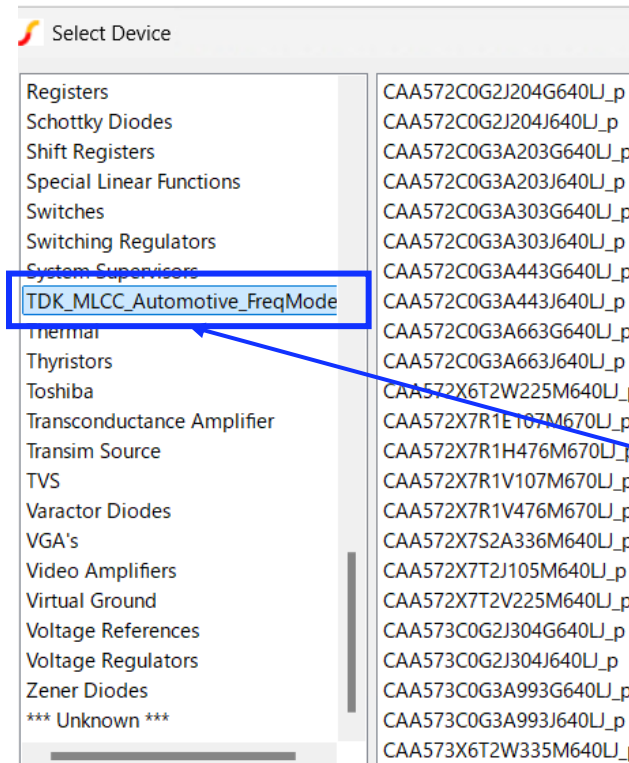


Model placement

- 1) Select "Place" > "From Model Library..."
- 2) The "Select Device" window opens. Select "TDK_MLCC_Automotive_FreqModel".



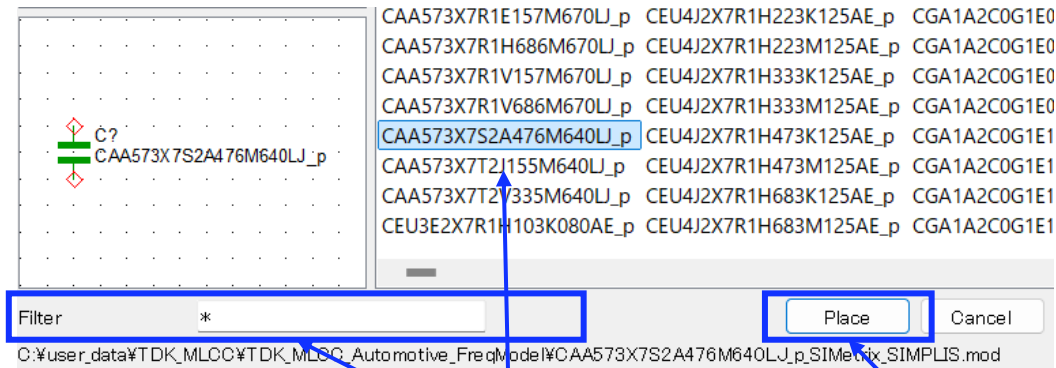
1) Select "From Model Library..."



2) Select the library

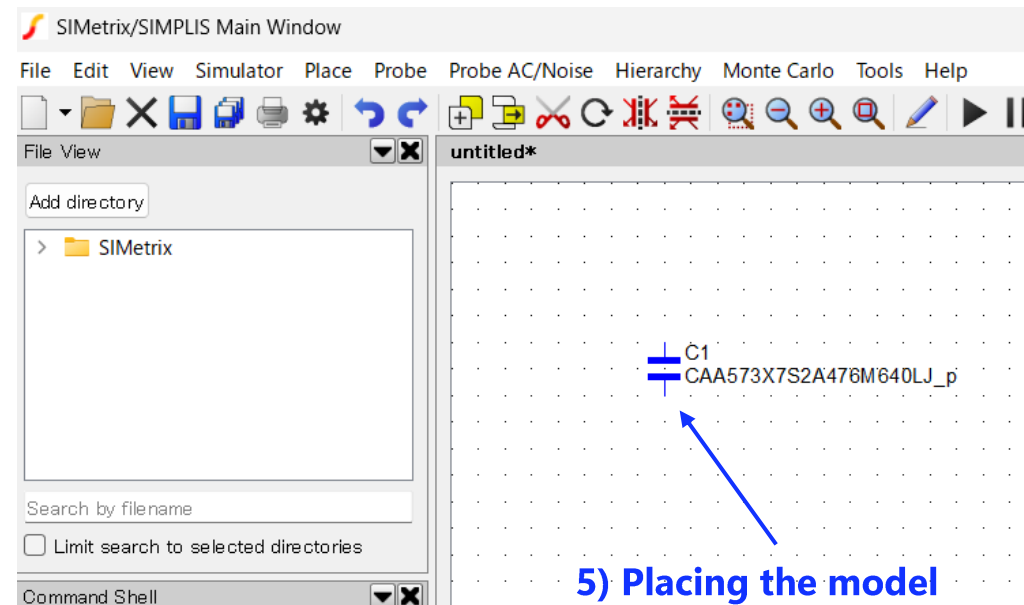
Model placement (Continued)

- 3) Select the model . You can search for part numbers using the filter.
- 4) Click the "Place" button.
- 5) Click the desired location on the schematic to place the model.



3) Select the model
You can search for a part
number using the Filter field

4) Click the "Place"
button



5) Placing the model

