

# **TAIYO YUDEN Component Library for Keysight PathWave RF Synthesis**

- Installation manual -

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# System requirements

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**This library is available under the following environment.**

**OS : All operating systems that PathWave RF Synthesis supports**

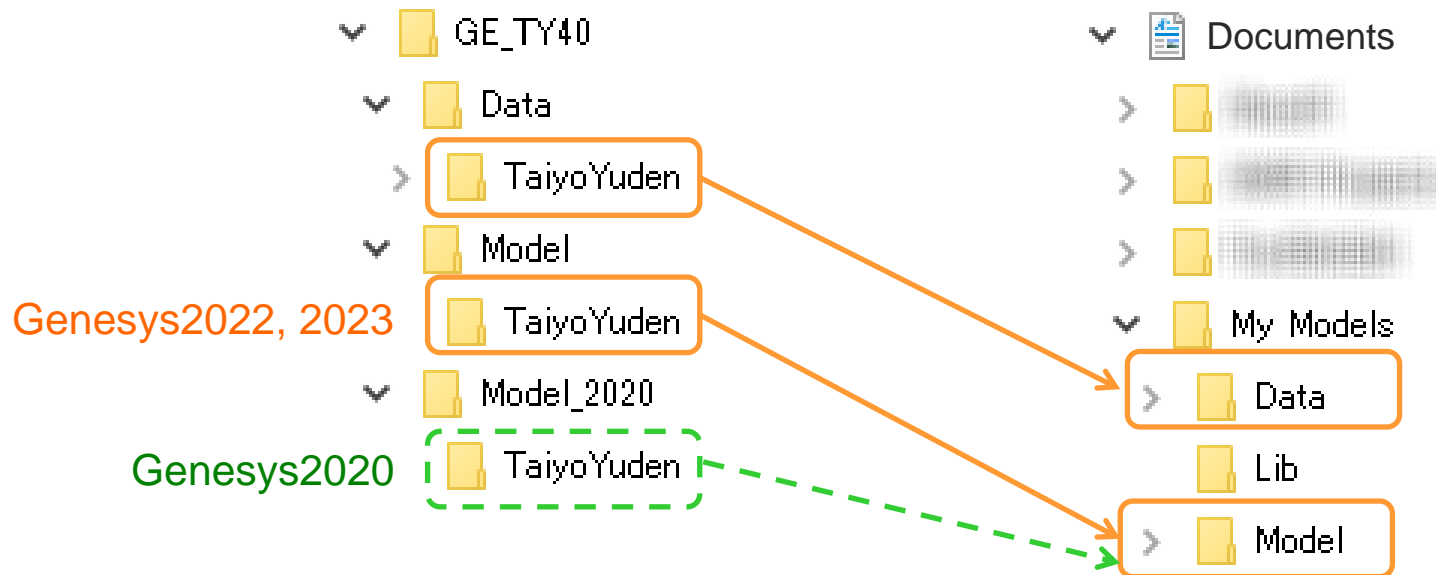
**PathWave RF Synthesis : Above 2020**

# How to install Component Library

**Step 1.** Unzip “GE\_TY\*\* .zip”.

**Step 2.** Copy each TaiyoYuden folder in Data and Model(\*) folder in the library to Data and Model folder in <My Documents>¥My Models folder.

\* In case of PathWave RF synthesis 2020 (referred to as Genesys), copy TaiyoYuden folder in Model\_2020 folder instead of Model folder.

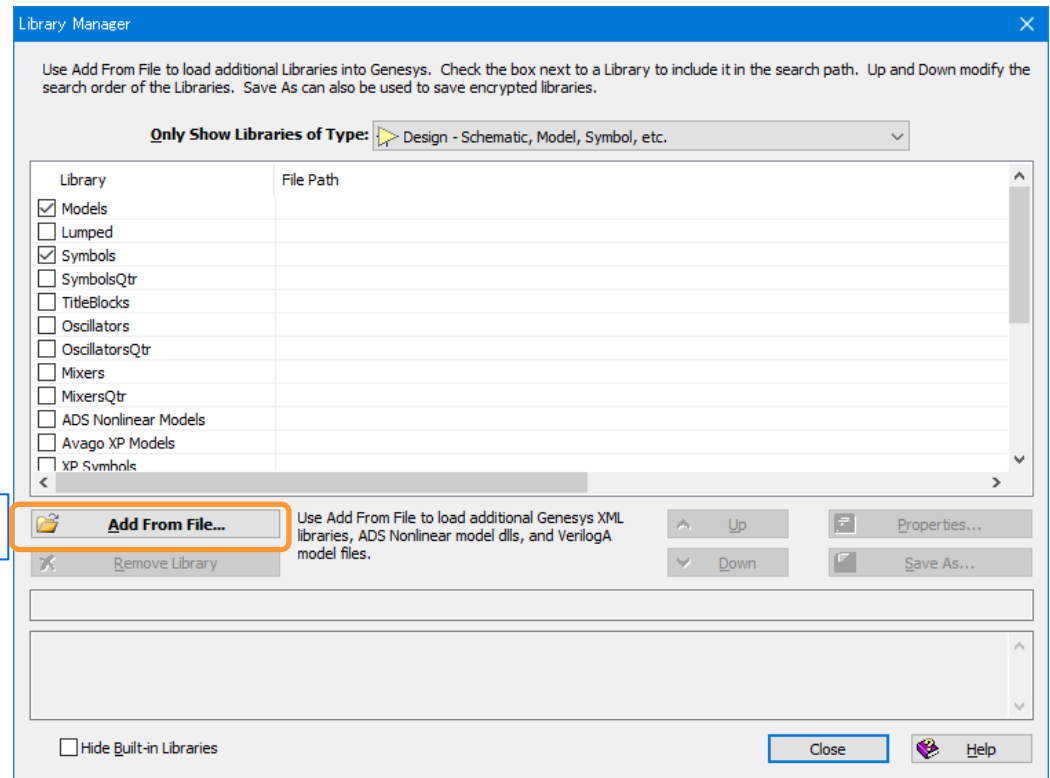
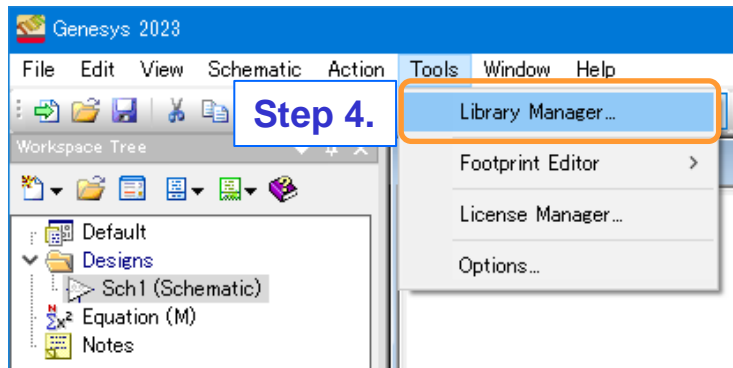


# How to install Component Library

**Step 3. Launch Genesys.**

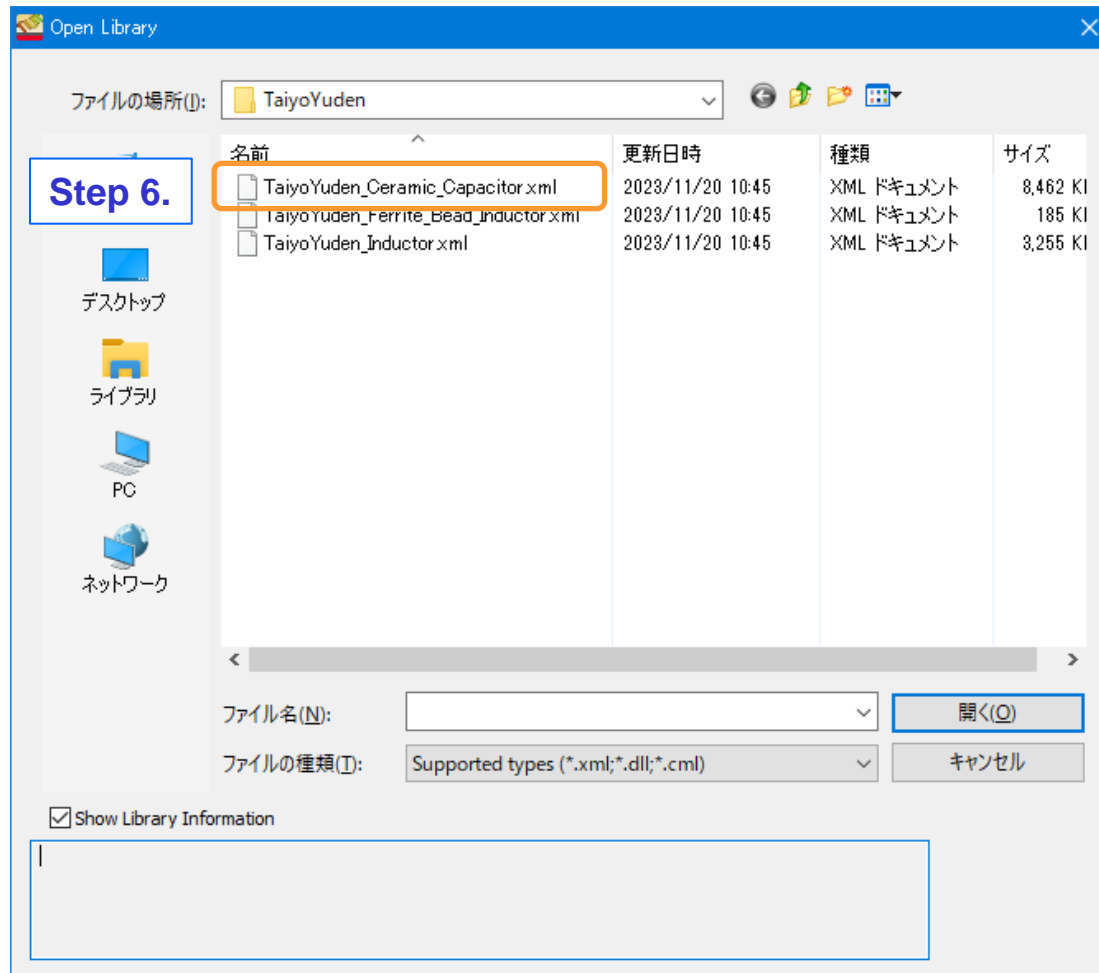
**Step 4. Select Tools > Library Manager in toolbar to open Library Manager window.**

**Step 5. Click “Add From File...” button.**



# How to install Component Library

**Step 6.** Open “TaiyoYuden\_Ceramic\_Capacitor.xml” in <My Documents>¥My Model¥TaiyoYuden folder created in Step 2.

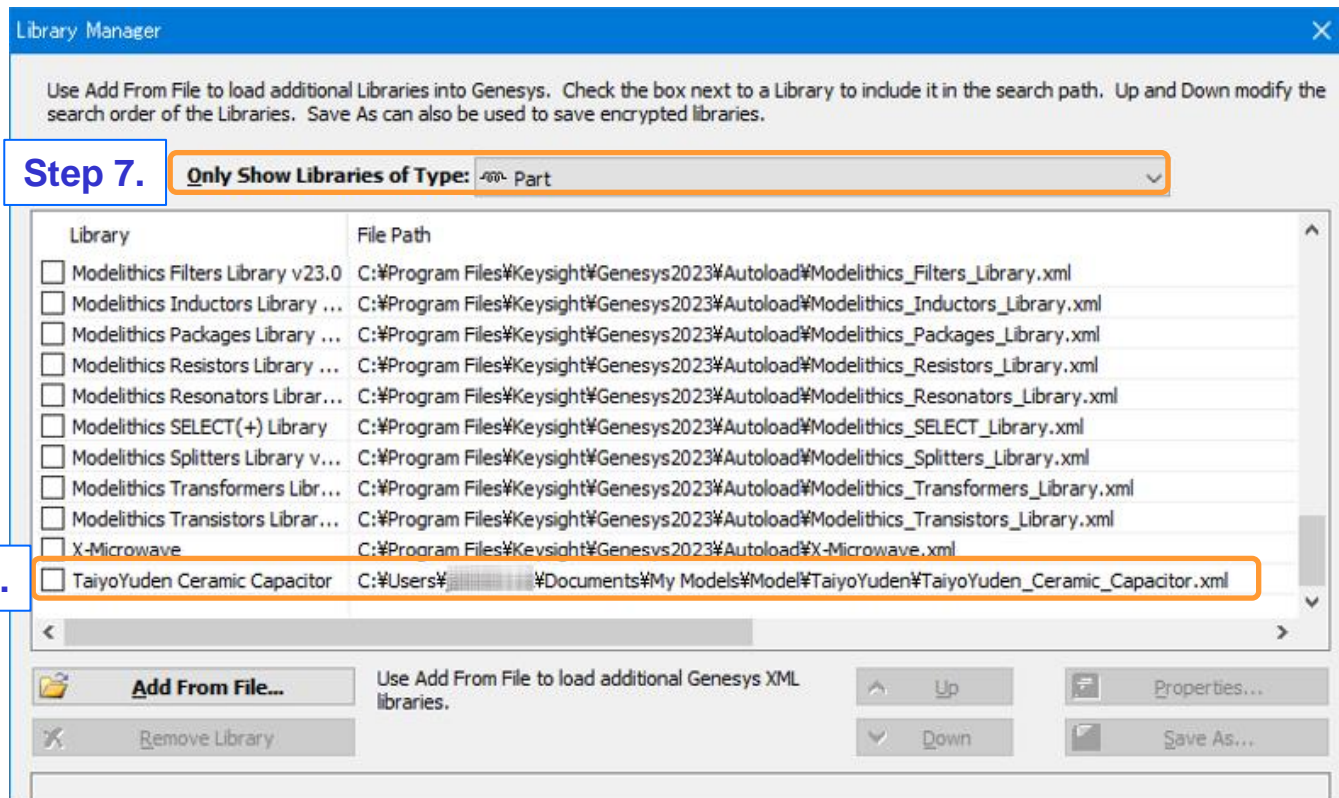


# How to install Component Library

**Step 7.** Select “Part” from “Only Show Libraries of Type” on Library Manager window.

**Step 8.** Confirm that ”TaiyoYuden\_Ceramic\_Capacitor” is appeared in the list.

**Step 9.** Repeat Step 5 to Step 8 for “TaiyoYuden\_Inductor”, “TaiyoYuden\_Ferrite\_Bead\_Inductor” to complete the installation.



# How to use Component Library

**Step 1.** Select View > PartSelector in toolbar to open PartSelector window.

**Step 2.** Select TaiyoYuden\_\*\*

(\*\* = Ceramic\_Capacitor, Inductor, Ferrite\_Bead\_Inductor)  
from Current Library menu on Part Selector A window.

**Step 3.** Select the part from the list and drop it onto your schematic.

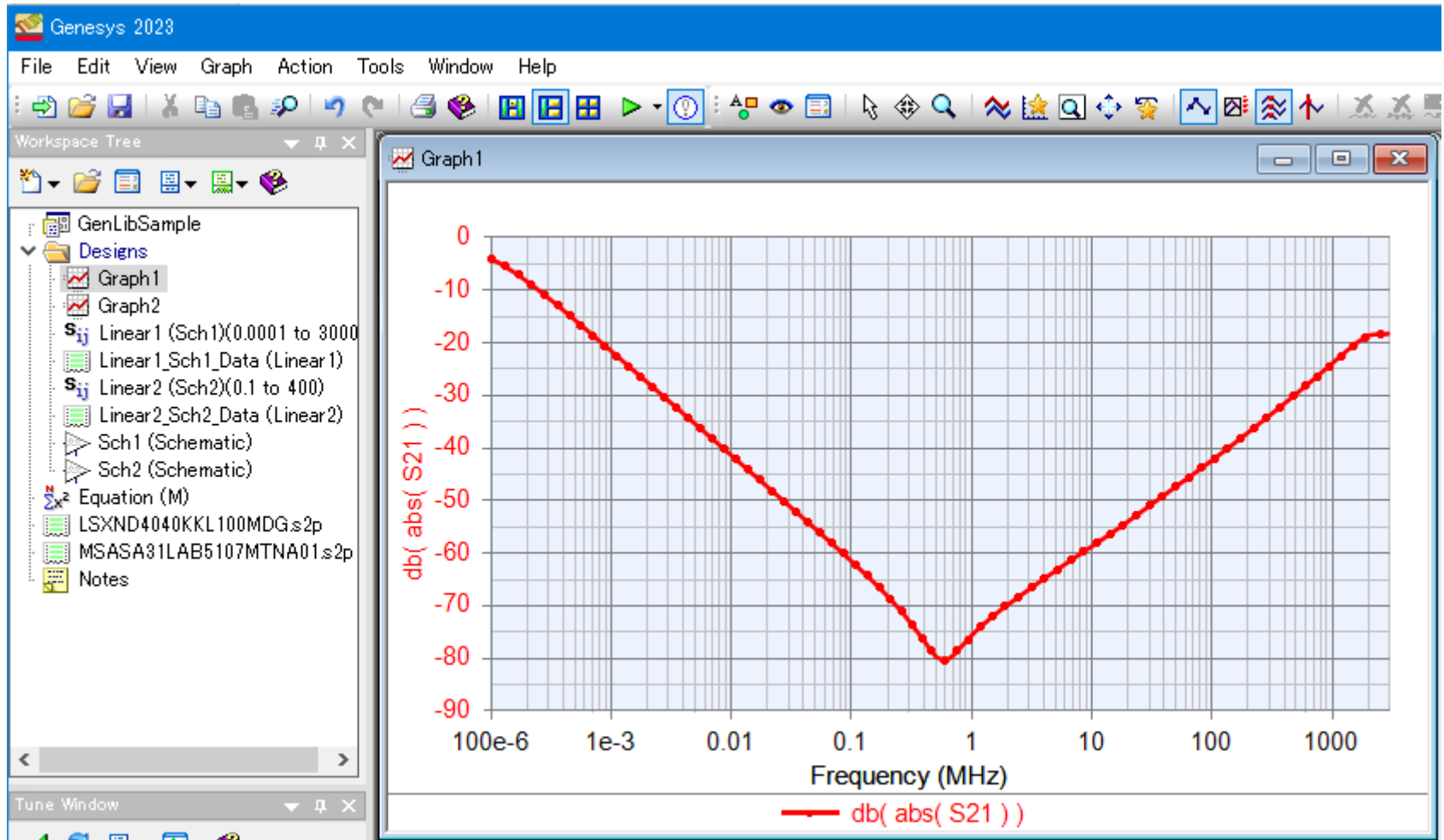
The screenshot shows the Genesys 2023 interface. The 'View' menu is open, and 'Part Selector' is highlighted. The 'Part Selector A' window is open, showing the 'Current Library' set to 'TaiyoYuden Ceramic Capacitor'. The list of parts includes 'MSASA31LAB5107MTNA01', which is selected. The schematic diagram shows a capacitor component labeled 'C1' connected between 'Port\_1' and 'Port\_2'. The ports are labeled with 'ZO=50 Ω' and 'PORT=1' and 'PORT=2' respectively. The capacitor is labeled 'Part=MSASA31LAB5107MTNA01'.

Variable	Value
Percentage	5k
None	



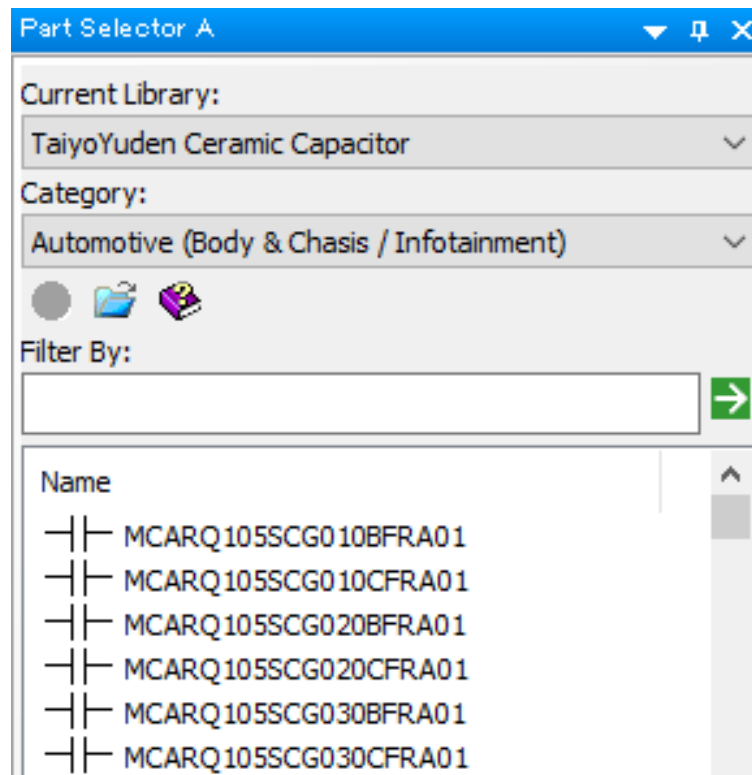
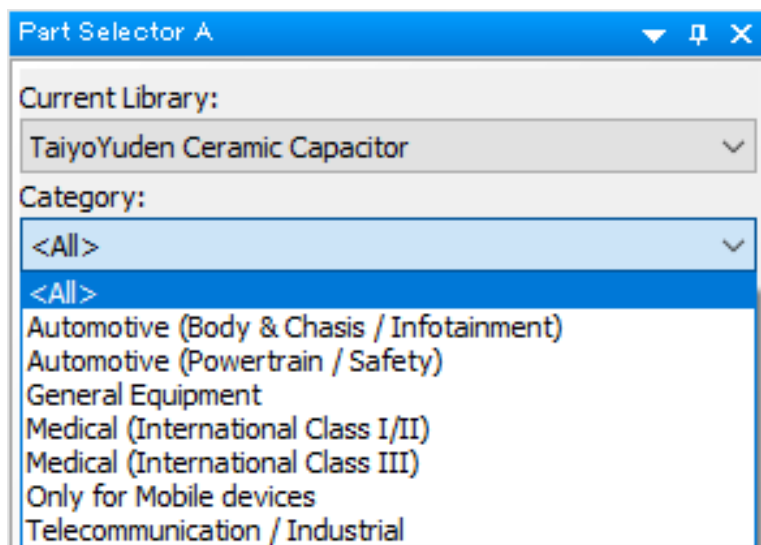
# How to use Component Library

## Step 4. Perform the simulation.



# How to narrow down components in Library

You can narrow down components by selecting Taiyo Yuden product series from “Category” menu on Part Selector A window.

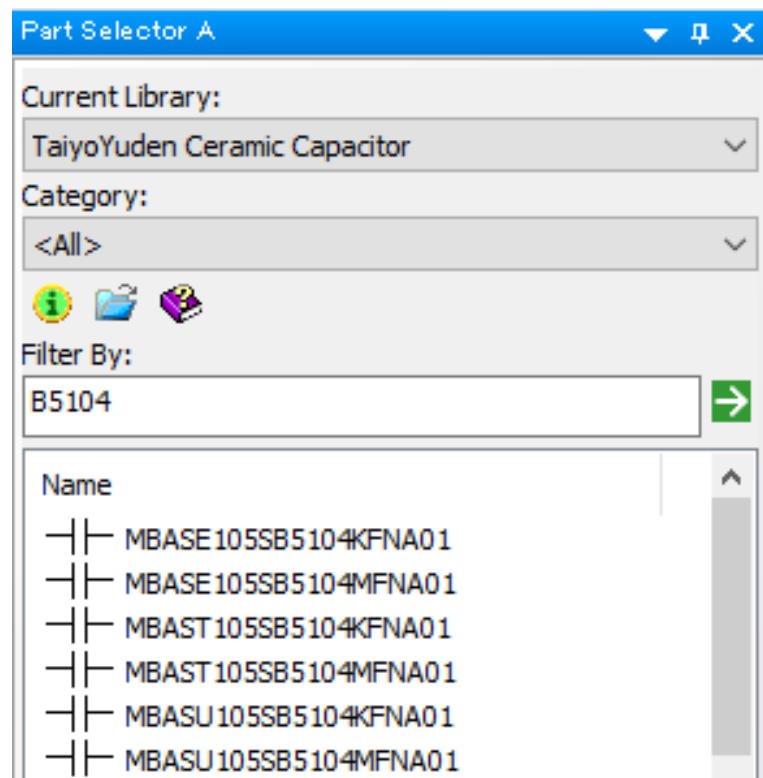


# How to narrow down components in Library

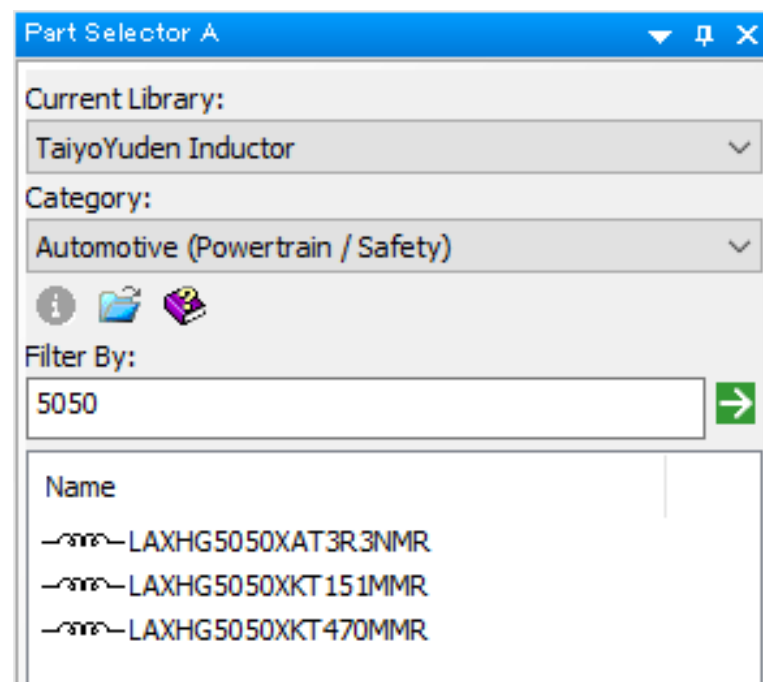
You can perform partial match retrieval of Taiyo Yuden part number from “Filter By” input box on Part Selector A window.

You can use “Filter By” and “Category” functions together at the same time.

An example retrieving capacitors having X5R temperature characteristics and 0.1uF capacitance by specifying some symbols of capacitor part number



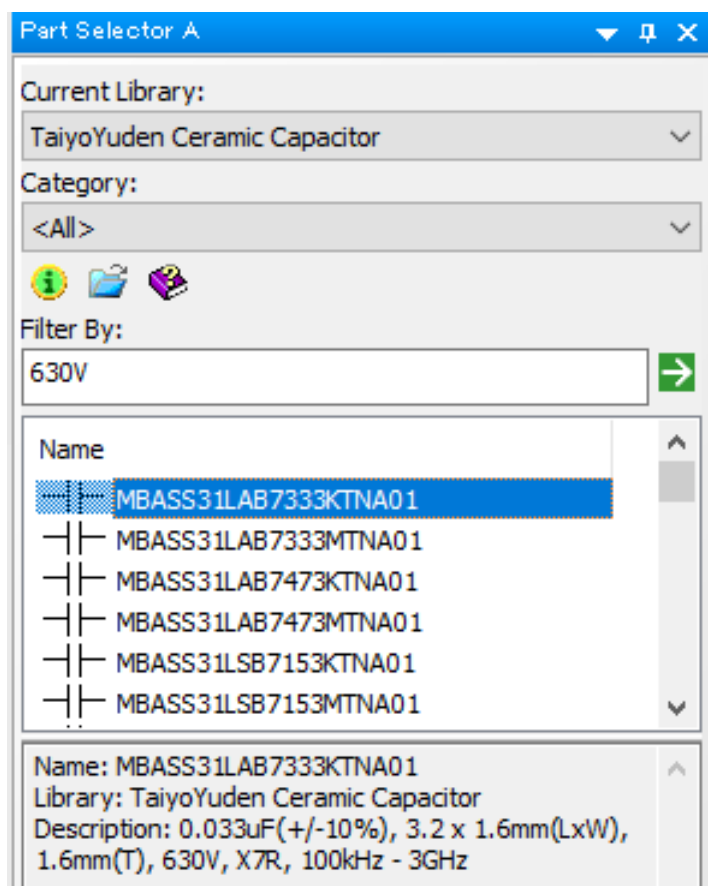
An example retrieving inductors of 5mm square size in Automotive (Powertrain / Safety) series by specifying some symbols of inductor part number



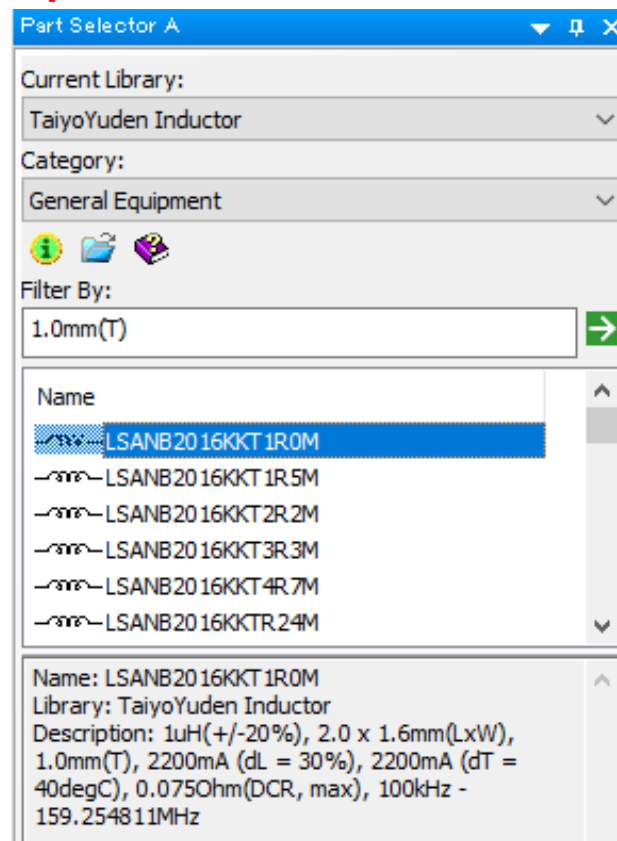
# How to narrow down components in Library

You can narrow down components by putting the information of part descriptions to “Filter By” input box on Part Selector A window.

An example retrieving capacitors of 630V rated voltage by specifying “630V” written in part descriptions

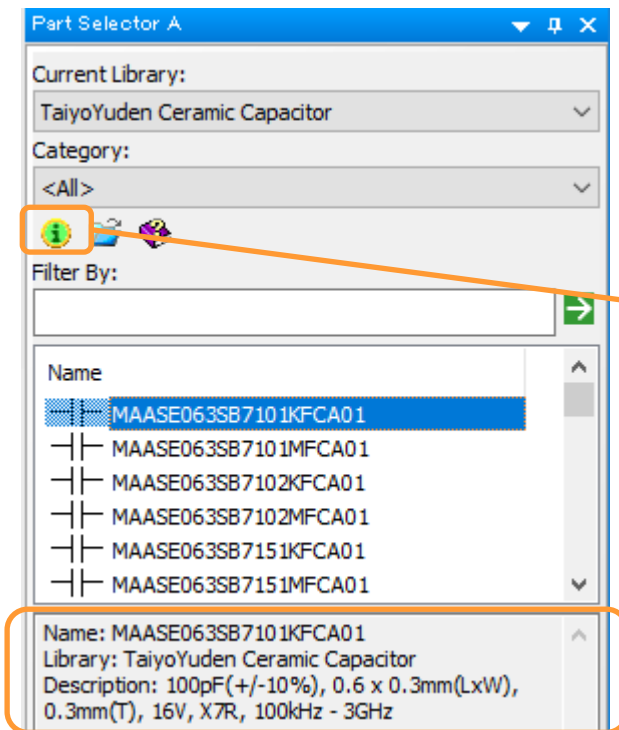


An example retrieving inductors of 1mm thickness in General Equipment series by specifying “1.0mm(T)” written in part descriptions



# How to view component descriptions

You can find component information of the selected part at the bottom of Part Selector A window. You can access further more component information by clicking information icon to guide you to our component search website TY-COMPAS on your browser under the internet environment.



The screenshot shows the TY-COMPAS website for the component MAASE063SB7101KFCA01. The page includes the following information:

**MAASE063SB7101KFCA01**  
(Previous Part Number : EMR063B7101KP-F)

CERAMIC CAPACITORS [Multilayer Ceramic Capacitors (High dielectric type) for Automotive Powertrain and Safety (Cu external electrode products)]

Specifications	
Status	Mass Production (Preferred)
Capacitance	100 pF ± 10 %
Case Size (EIA/JIS)	0201/0603
Rated Voltage	16 V
tanδ (max)	3.5 %
Temperature Characteristic (EIA)	X7R
Operating Temp. Range (EIA)	-55 to +125 °C
Insulation Resistance (min)	10 GΩ
Dimension L	0.6 ±0.03 mm
Dimension W	0.3 ±0.03 mm
Dimension T	0.3 ±0.03 mm
Dimension e	0.15 ±0.05 mm
RoHS Compliance (10 subst.)	Yes
REACH Compliance (235 subst.)	Yes
IEC62474 (Ver. D26.00) Compliance	Yes
Halogen Free	Yes
Soldering	Reflow
Standard Quantity	Taping Paper 15000pcs

**Appearance**

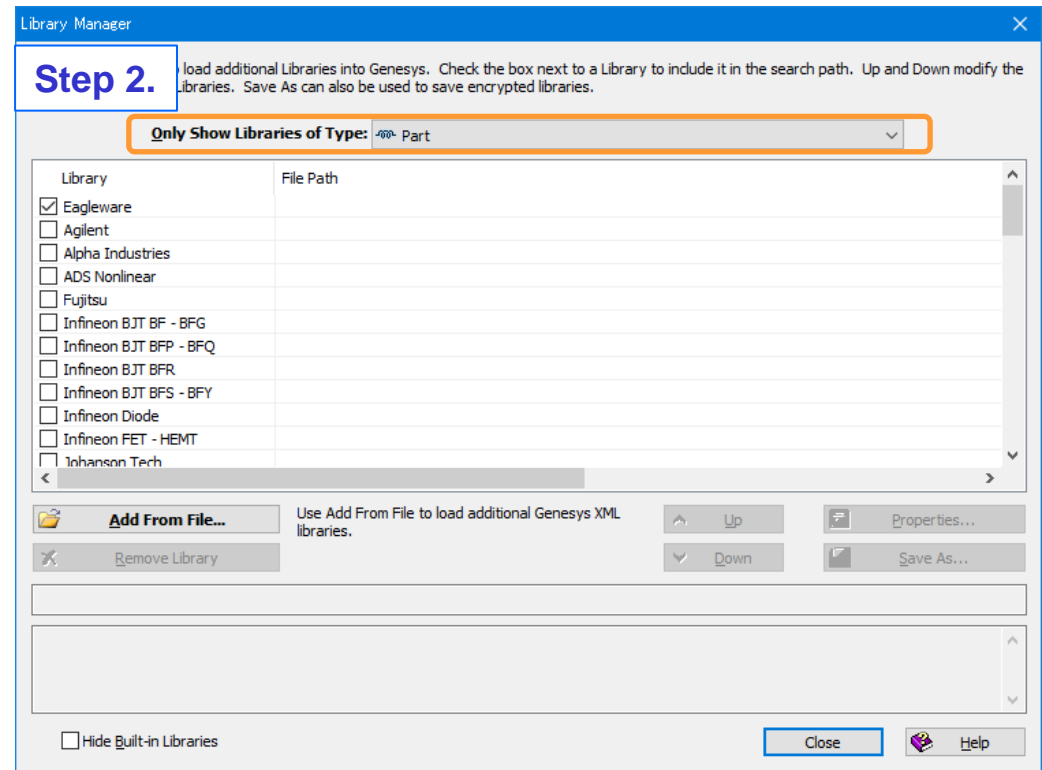
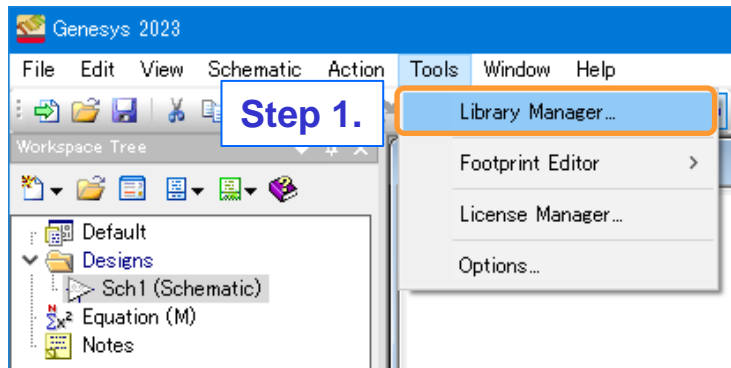
**Features**

- AEC-Q200 qualified
- Cu external electrode + plating structure contributes to the excellent soldering heat resistance
- A High reliability application part

Note: The products are tested based on the test conditions and methods defined in AEC-Q200.

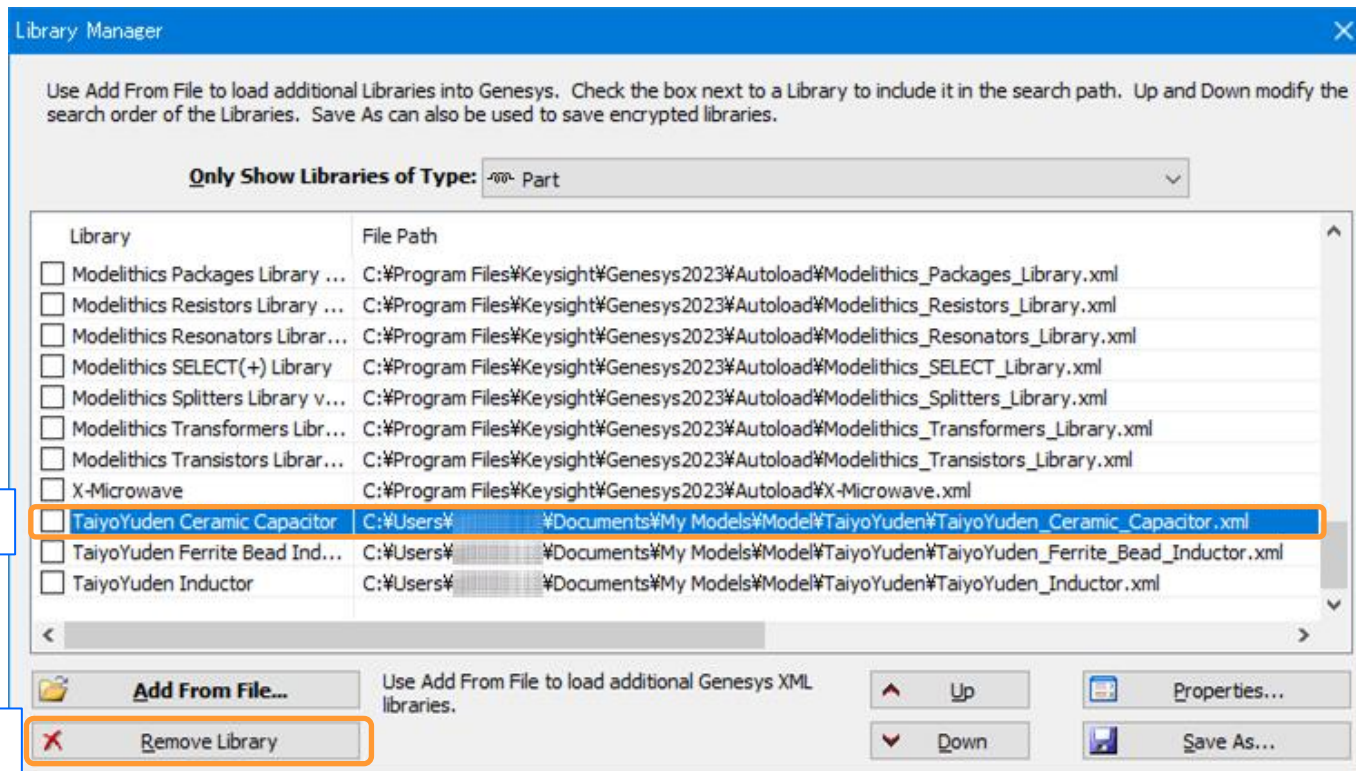
# How to uninstall Component Library

- Step 1.** Select Tools > Library Manager from toolbar to open Library Manager window.
- Step 2.** Select “Part” from “Only Show Libraries of Type” on Library Manager window.



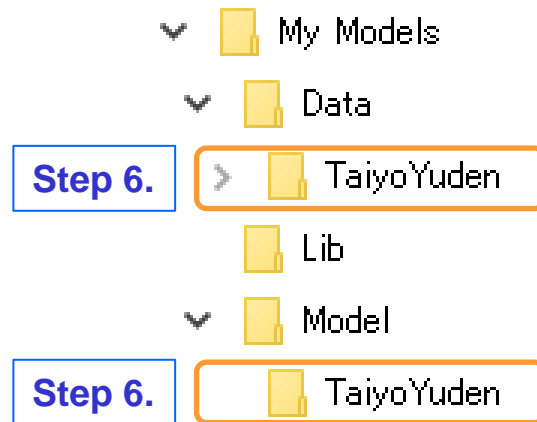
# How to uninstall Component Library

- Step 3.** Select “TaiyoYuden\_Capacitors” from component library list on Library Manager window.
- Step 4.** Click “Remove Library” button.
- Step 5.** Repeat Step 3 and 4 for “Taiyo Yuden\_Inductor”, “Taiyo\_Yuden\_Ferrite\_Bead\_Inductor”.



# How to uninstall Component Library

**Step 6.** Delete each TaiyoYuden folder in Data and Model folder located in <My Documents>¥My Models folder to complete the uninstallation.





**TAIYO YUDEN**