TAIYO YUDEN

TAIYO YUDEN Component Library for Microwave Office

- Installation manual -

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System requirement

This library is available under the following environment.

OS : All operating systems that Microwave Office supports

Microwave Office : Above 11.0

How to install Component Library

- Step 1. Unzip "AW_TY**.zip".
- **Step 2.** Launch AWR Design Environment.
- Step 3. Select Help > Show Files/Directories.
 -> Directory dialogbox will soon appear.



How to install Component Library

Step 4. Select Appdatauser on Directory dialogbox and click Open button.
 -> <Appuser> folder will open.

Directories				×
The following files and dir	rectories are	used by this application.		Open
Name	Directory	Туре	-	Copy All
🚞 Analog	C:¥Pro	Directory		
🚞 Appdata	C:¥Us	Directory		Email
C Appdatacommon	C:¥Pro	Directory	=	
Calification Appdatauser	C:¥Us	Directory	_	
C Application	C:¥Pro	Directory		
Cells	C:¥Pro	Directory		
Current project	C:¥Us	Directory		
🚞 Data	C:¥Pro	Directory		
🚞 DesignKits	C:¥Pro	Directory		
Em_models	C:¥Pro	Directory		
🚞 EmModelsUser	C:¥Us	Directory		
🚞 Examples	C:¥Pro	Directory		
Libraries	C:¥Pro	Directory		
🚞 Library Cache	C:¥Pro	Directory		
Logs	C:¥Us	Directory	-	
			_	
				Close

How to install Component Library

Step 5. Copy the unzipped files at step1 to <Appuser> folder.



The installation is finished here.

Restart AWR Design Environment to use TAIYO YUDEN Library.

How to use Component Library

- Step 1. Select "Elements" tab.
- Step 2. Open "Taiyo Yuden" from Libraries tree and select the component category.
- **Step 3.** Select the model from Models pane and drag it onto the schematic.



How to use Component Library

Step 4. Perform the simulation.



About component layout

You can see the component layout of this library on the layout window. The component layout is consisted of component outline or the external square border around the component, and the recommended land pattern of the component.

Please refer to the Microwave Office manual for layout descriptions.



About component detailed information

When you select the model of this library in Models pane at Elements tab, you can open our product search site "TY-COMPAS" and directly find the detailed information of the selected item from right-click menu "Element Help".

🏧 Untitled Project - AWR Design Environment (22.1)					TAIYO YUDEN	
∃ <u>F</u> ile <u>E</u> dit <u>V</u> iew <u>D</u> raw	S <u>c</u> hematic <u>P</u> roject <u>S</u> ir	nulate <u>O</u> ptions <u>T</u> ools	(Taiyo Yuden COMPonent Assist System)		Select Region OVersion info. OPRECAUTIONS AND DISCLAIMERS	
- D 🖻 🔚 % 🖻 🔁 X v 🗠 🎜 I 🕲 Q 🔂 🎁 🚔 📩 🐓		MSASU105SB5104KFNA01			🗟 <mark>S</mark> 🖏	
🐄 Elements 🛛 🕂 🗙		(Previous Part Number : UMI	K105BJ104KV-F)			
🚊 – 🔏 Libraries 🔥 🔥						
🗄 🗡 * AWR web site		CERAMIC CAPACITORS [Multilayer Ceramic Capacitors (High dielectric type) for General Electronic Equipment]				
🗄 🔏 CMC Models		Specifications		Appearance	To Higher Specification	
🗄 🗸 Murata						
X SiMKit 4.7		Status	Mass Production (Preferred)		Smaller	
🖕 🔏 TaivoYuden			Capacitance	0.1 UF ± 10 %		
É. L. Ceramic Canacitor		Case Size (EIA/JIS) Rated Voltage	0402/1005			
U Automatics (Party Chasis and Infetainment)		tanō (max)	10 %		- 30 COM 180 CO -	
Here Automotive (Bouy Chasis and Iniotainment)		Temperature Characteristic (FIA)	X5R		Hi-Temp.	
H. H. Automotive (Powertrain_and_Safety)		Operating Temp. Range (EIA)	-55 to +85 °C		- 82	
ia⊣⊢ General_Equipment		High Temperature Loading (% Rated Voltage)	150 %			
			Insulation Resistance (min)	500 MΩ·μF		16.0-0
			Dimension L	1.0 ±0.05 mm		<u>HI-Cap.</u>
		Dimension W	0.5 ±0.05 mm			
1005		Dimension T	0.5 ±0.05 mm	Features		
1000		Dimension e	0.25 ±0.10 mm	Menelithia atsuature provides higher reliak	silite -	
		RoHS Compliance (10 subst.)	Yes	Monolithic structure provides higher reliability		
		REACH Compliance (235 subst.)	Yes	A wide range of capacitance values available in standard case sizes		
Models	Description	<u>^</u>	Halogen Free	Yes	5	
models			Soldering	Reflow	The use of nickel as electrode material an	d plating processing improve the solderability
MSASU105SB5223KFNA01	0.022[uF](+/-10[%]), 10	0kHz - 3GHz, 50[V], >	Standard Quantity	Taping Paper 10000pcs	and heat resistance characteristics. It also	prevents migration and raises the level
MSASU105SB5223MFNA01	0.022[uF](+/-20[%]), 10	0kHz - 3GHz, 50[V], >		·	of reliability.	
	0.047[uF](+/-10[%]), 10	0kHz - 3GHz, 50[V], >			Low equivalent series resistance(ESR) pro	wides superior noise absorption characteristics
MSASU105SB5473MFNA01	0.047[uF](+/-20[%]), 10	0kHz - 3GHz, 50[V].)			Eow equivalent series resistance(Eory pre	wides superior holse absorption characteristics
MSASU105SB5104KENA01.	0.15.57/+/-105/3 1054	2 - 3GHz 50IVI X5B			Main Applications	
MSASU105SB5104MENA01	Element Help	z - 3GHz 50D/1 X5B				
MSASU105SB5224KFNA01	Large icons	Hz - 3GHz, 50[V], X51				
MSASU105SB5224MENA01	Largo Icons	Hz - 3GHz 50EV1 X51 🗡				
<	Small icons	>				
[🔁 Project 📑 Elements 📳	List					
	Details					

How to uninstall Component Library

- **Step 1.** Open <Appuser> folder where you installed the library.
- **Step 2.** Delete <Appuser>¥symbols¥Taiyoyuden2.syf.
- Step 3. Delete "TaiyoYuden" folder and "TaiyoYuden.xml" located in <Appuser>¥xml¥Circuit Elements. That is all for the uninstallation.

