Manual of Characteristic Viewer

<u>ver 1.1</u>

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- <Update History>
 - 2024.4.4 Issuance of 1st edition (ver 1.0)
 - 2024.9.10 Issuance of 2nd edition (ver 1.1)

1.Overview of Characteristic Viewer

Characteristic Viewer is the tool which represent various characteristics of a selected part by means of a graph of the frequency axis and temperature axis, etc. This tool provides you with a simple procedure for checking characteristics of Panasonic's electronic parts such as characteristic value changes within the operational frequency range, etc. You can use it as a tool for selecting a Panasonic's electronic parts.

2.Features

•Able to display the series specification and characteristic graph when user searches for the part number.

•Able to export the characteristic value (numeric data) to Excel.

•Able to set any display range of Y/X axis of the graph.

3. Target products and displayed characteristic items

Able to display the following characteristic values for each product.

-	ner Aluminum Electrolytic C olymer Tantalum Solid Capad	• • • • •
Inductance component	Impedance	Z
	Resistance component	ESR
	Capacitance	Capacitance
	Inductance component	ESL
Temperature	Capacitance change rate	⊿C/C Temp.
characteristics	Resistance component	ESR Temp.

Conductive Poly	lymer Aluminum Solid Capa mer Hybrid Aluminum Elect uminum Electrolytic Capacit	rolytic Capacitors
Frequency	Impedance	Z
characteristics	Resistance component	ESR
	Capacitance	Capacitance
	Inductance component	ESL
Temperature	Capacitance change rate	⊿C/C Temp.
characteristics	Dissipation factor	Tanδ Temp.
	Resistance component	ESR Temp.

Power I	nductors for Automotive ap	plication
Frequency	Impedance	Z
characteristics	Resistance component	ACR
	Inductance	
	Q characteristics	Q
	Phase characteristics	θ
	Reactance	X
DC-Bias characteristics		DCBias-Inductance
Self temperature rise		Idc-⊿T

	Chip Varistor	
Frequency	Impedance	Z
characteristics	Capacitance	Capacitance
	Attenuation	S21
	ESD Suppressor	
Frequency	Capacitance	Capacitance
characteristics		
	Attenuation	S21
ESD Suppression Voltage V	/aveform	Voltage

	Common Mode Nois	e Filter
Frequency	Impedance	Zcom
characteristics		Zdif
	Attenuation	Scc21
		Sdd21
		Sdd11
		Sdd22
		Scd21
Eye Diagram		

4.Website Overall Structure



5.How to use

Enter the part number to be viewed in the Part Number Search field and press the Search button to display the part number specifications and characteristics graph.



The following explanations are given on the following pages.

- 1 Display of X-axis and Y-axis value
- 2 Zoom button
- ③ Setting button
- ④ Data Download (xlsx) button
- (5) Catalog button
- 6 Sim model button

① Display of X-axis and Y-axis value



Displays the X-axis and Y-axis values at the position where the cursor is hovered over the graph line.

2 Zoom button

Click the Zoom button to display the target graph in full screen. To close the screen, click the close button in the upper right corner. Displays the X-axis and Y-axis values at the position where the cursor is hovered over the graph line.



③ Setting Button

You can change the scale of the X-axis and Y-axis.

XAxis ○ Linear ● Log
Default Minimum Value
0.01 Maximum Value 1000
YAxis ○ Linear
Default Minimum Value 0.001
Maximum Value
Reset OK

X Axis, Y Axis

Linear: Display the scale at equal intervals

Log: Set the scale to logarithmic display

Default (with check mark) : Initial value

Default (without check mark) : Allows minimum and maximum value input

Reset: Restore the graph to its pre-Setting display. OK: Changes the X and Y axes of the graph to the set values and displays them

*The Linear and Log buttons are hidden in the Linear display graph.

④ Data download button

Click "Data Download (xlsx)" to download an EXCEL file containing part information and various characteristic values. The downloaded EXCEL file contains separate sheets for parts information, frequency characteristics data, temperature characteristics data, and other items.

♦ Parts Information Sheet ♦

		c	D	16.5		6	н	
Series	Part Number	Reted Voltage(V)	Cepectance(µ?)	(SR(m0))	Ripple Current(mA)	L(mm)	W(mm)	H(mm)
UR (SP-Cap)	007LR0022184	2	220	4.5	8500	7.3	4.3	1
	cy resp	onse she			-	-		
A		B	С		D	E		
Freq		Z	ESR		CapMF	ESL		
0.	0001	7.550513655	0.04551	3582	210.7907389		0	
0.00010		7.550513655 7.253591775	0.04551		210.7907389 210.7536027		0	
	4112	and a fair that is not set on the second second		3205			0	
0.00010	4112 8393	7.253591775	0.04398	8205 5834	210.7536027		0 0 0 0	
0.00010	4112 8393 1285	7.253591775 6.968331206	0.04398	3205 5834 5207	210.7536027 210.7169247		0 0 0 0 0 0 0	
0.00010 0.00010 0.0001	4112 8393 1285 1749	7.253591775 6.968331206 6.694272328	0.04398 0.04248 0.04101	8205 5834 5207 9675	210.7536027 210.7169247 210.6807751		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0.00010 0.00010 0.0001 0.0001	4112 8393 1285 1749 2321	7.253591775 6.968331206 6.694272328 6.430974084	0.04398 0.04248 0.04101 0.03957	3205 5834 5207 0675 2185	210.7536027 210.7169247 210.6807751 210.6452147		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0.00010 0.00010 0.0001 0.0001 0.00012	4112 8393 1285 1749 2321 2735	7.253591775 6.968331206 6.694272328 6.430974084 6.178013201	0.04398 0.04248 0.04101 0.03957 0.03818	8205 5834 5207 9675 2185 5258	210.7536027 210.7169247 210.6807751 210.6452147 210.6102939		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0.00010 0.00010 0.0001 0.0001 0.00012 0.00012	4112 8393 1285 1749 2321 2735 2587	7.253591775 6.968331206 6.694272328 6.430974084 6.178013201 5.93498344	0.04398 0.04248 0.04101 0.03957 0.03818 0.03682	8205 5834 5207 0675 2185 5258 0985	210.7536027 210.7169247 210.6807751 210.6452147 210.6102939 210.5760526		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

(5) Catalog Button

Pressing the Catalog button displays the catalog for the part number you are viewing in a separate tab.

6 Sim model button

Press the Sim Model button to download the simulation model (S-parameters, etc.) in Zip format.