

## How To Export To A \*.dpv In Altium Design

1. Open Altium Design and navigate to your project. This project will contain a .PcbDoc which should show a final PCB.
2. Ensure the .PcbDoc is selected.
3. Select **File->Assembly Files -> Generate pick and place files.**
  - a. In the folder where all of the Altium files are stored, a CSV will be generated.
  - b. Move the file to the desktop for easier access for the future steps.
4. Open the CSV in Microsoft Excel.
5. When the file is first opened it will look like figure 1.
  - a. Edit the file to ensure it looks like figure 2.
  - b. Be sure to delete the alignment fiducials from the components, otherwise, the pick and place machine will try to place parts on the alignment fiducials.
  - c. Save the updated CSV.
6. Open a new File Finder Window and type "New Converter"
  - a. The first option will be a folder titled "New Converter 2.4.3", select this option
7. Open the application in the folder titled "ConvertTool-V2.4.3."
  - a. A new window will open.
8. In the new window, select open.
9. Navigate to where you stored the CSV.
10. Select the CSV file.
  - a. You will return to the original window.
11. In the various tabs, make the necessary edits needed.
12. When finished, click on "Convert".
  - a. This saves your changes, and converts the file into a .dpv.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Altium Designer Pick and Place Locations													
2	C:\Users\Public\Documents\Altium\Projects\DPV_Output\Project Outputs for 555_timer\Pick Place for 555timer.csv													
3														
4	=====													
5	File Design Information:													
6														
7	Date:	17/07/23												
8	Time:	13:16												
9	Revision:	Not in VersionControl												
10	Variant:	No variations												
11	Units used:	mm												
12														
13	Designator	Footprint	Center-X	Center-Y	Comment	Rotation	Descriptive	Height	mm	Value				
14	1	Alignmen	-25.4	-25.4	Alignmen	90		0						
15	2	Alignmen	-25.4	-25.4	Alignmen	90		0						
16	3	Alignmen	-25.4	-25.4	Alignmen	90		0						
17	C1	1206_Pass	29.718	36.322	1uF	0	MULTILAY	0	1uF					
18	C2	1206_Pass	22.352	36.322	1uF	0	MULTILAY	0	1uF					
19	J1	AMPHENC	3.89	22.225	J_USB_B_I	270	Micro Usb	0						
20	LED1	LED_1206	20.447	14.478	Red	180	Red 621~6	0	Red					
21	LED2	LED_1206	33.782	14.478	Red	180	Red 621~6	0	Red					
22	R1	1206_Pass	13.843	14.525	100Ohm	0	100O ±1%	0	100Ohm					
23	R2	1206_Pass	27.178	14.478	100Ohm	0	100O ±1%	0	100Ohm					
24	R3	1206_Pass	8.128	36.322	100Ohm	180	100O ±1%	0	100Ohm					
25	R4	1206_Pass	15.24	36.322	100KOhm	180	100kO ±1%	0	100KOhm					
26	U1	TS555IDTT	24.257	25.8541	LM	90	555 Type,	2.65						
27														

**Figure 1.** Original CSV Generated by Altium Designer.

	A	B	C	D	E	F	G	H	I
1	Designator	Footprint	Center-X(mm)	Center-Y(mm)	Comment	Rotation	Description	Height(mm)	Value
2	C1	1206_Passive_C	29.718	36.322	1uF		0 MULTILAYER CERA		0 1uF
3	C2	1206_Passive_C	22.352	36.322	1uF		0 MULTILAYER CERA		0 1uF
4	J1	AMPHENOL_10	3.89	22.225	J_USB_B_Micro	270	Micro Usb, 2.0 Typ		0
5	LED1	LED_1206	20.447	14.478	Red	180	Red 621~631nm 12		0 Red
6	LED2	LED_1206	33.782	14.478	Red	180	Red 621~631nm 12		0 Red
7	R1	1206_Passive_f	13.843	14.525	100Ohm		0 100O ±1% 0.25W ±		0 100Ohm
8	R2	1206_Passive_f	27.178	14.478	100Ohm		0 100O ±1% 0.25W ±		0 100Ohm
9	R3	1206_Passive_f	8.128	36.322	100Ohm	180	100O ±1% 0.25W ±		0 100Ohm
10	R4	1206_Passive_f	15.24	36.322	100KOhm	180	100kO ±1% 0.25W ±		0 100KOhm
11	U1	TS555IDTTR	24.257	25.8541	LM		90 555 Type, Timer/O	2.65	
12									

**Figure 2.** Final CSV Output.